Universal Enclosures and Thermal Management



Catalog 2025

PanelSeT, ClimaSys

More than 60 years contributing
to equipment protection

se.com/enclosures

Life Is On Schneider Electric


Life Is On

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Make sustainable
IMPACT
with PanelSeT enclosures

New name, added value:
Spacial and Thalassa are becoming PanelSeT

Unveiling a unified brand identity for all Schneider Electric steel, stainless steel and insulating universal enclosures.

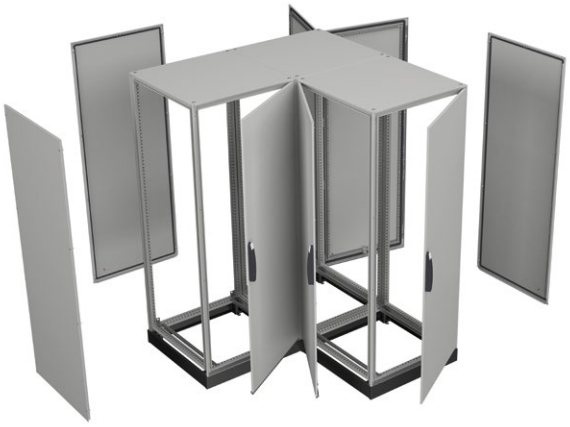


PanelSeT SFN

The first low carbon emission steel enclosure:

- **Reduced carbon footprint:** manufactured with a minimum of 50% of steel produced from renewable energy and recycled materials (1), leading to a 34% $C0_2$ reduction on the total enclosure lifecycle (2).
- **Increased robustness:** new patented frame and corner system design withstanding up to 1.5 tonnes of static load.
- **Unparalleled flexibility** in panel-building operations, stock and flow management Available in kit, assembled or customized.
- **Easy retrofit and improved operational efficiency:** with new functionalities reducing time throughout the entire process.

Leverage PanelSeT SFN's benefits for standard industrial applications, electrical distribution or demanding settings such severe outdoors, seismic, nuclear or IT.



Up to 34%
CO_2 savings versus the previous version

(1) More info on Arcelor Mittal website (XCarb® recycled and renewably produced).

(2) According to the comparison of PanelSeT SFN PEP (ENVPEP2301018) and Spacial SF PEP (ENVPEP110923) using the same calculation methodology provided in the Product Category Rules of PEP Ecopassport association (PCRed4).

PanelSeT SFN PEP

Spacial SF PEP

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ClimaSys Connected Cooling Units

Designed to give industrial manufacturers peace of mind

- **Natively connected product** with easy communication for remote access to operating status and setting data.
- **New product design and packaging**, using an average of 80% recycled cardboard and no single-use plastics.
- **Customizable and easy-to-mount solution**, with small and light ranges to save space.
- **Efficient selection process** thanks to ProClima thermal configuration software, now fully integrated into SEE Electrical Expert.



EcoStruxure Ready

PanelSeT SFN and ClimaSys CU

> Watch the video

PanelSeT TBS Industrial Boxes

> Available from Sept.2024



Moving towards recycled materials

- **Now manufactured with 45% of post-industrial recycled ABS** content*.
- **No compromise on protection:** keeping the same mechanical characteristics, visual aspect and water/dust sealing to help protect your equipments.

Smart box design:

- **3 methods to fix the box** to its support.
- **Reinforced edges** of the cover to help ensure its robustness and suitable support during customization operations.
- **38 options available** including multiple dimensions with transparent, plain, low and high covers.
- **IEC 62208 certified** by TÜV.

* For more information, refer to the PanelSeT TBS PEP (ENVPEP2012015EN).

Made from **45%** of **post-industrial recycled ABS** content*

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Offer Overview and Selection Table

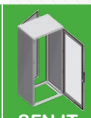
PanelSeT Enclosures - **Standard Applications**

Previously Spacial and Thalassa ranges

	Floor-standing	Wall-mounted	Box
Steel **Indoor industrial environments**	 **SFN** - Low-carbon Emission Steel Modular  **SM** - Monobloc	 **S3D**  **CRN**	 **SDB** - Junction Box  **SBM** - Industrial Box
Stainless-Steel **Hygiene and corrosion-resistance**	 **SFX** - Modular  **SMX** - Monobloc	 **S3X** - Wall-Mounted	 **SBX** - Box
Insulating Material **Outdoor infrastructure and industry**	 **PLA** - GRP	 **PLM** - GRP	 **PLS** GRP  **TBS** Recycled ABS  **TBP** Polycarbonate

PanelSeT Enclosures - **Specific Applications**

Previously Spacial and Thalassa ranges

	Floor-standing	Wall-mounted
Electrical Distribution	 **PrismaSeT HD and 6300** Power Distribution Switchboards up to 6300 A	 **S3DM** - For Modular Switchgear  **S3DB** - For Terminal Blocks
Motor Control Center	 **SFN MCC** - Compartmentalized Enclosure	
Human Machine Interface	 **SFN PC** - Suitable Control PC Rack  **SD** - Control Desk	 **S3CM** - Control Enclosure with Suspension System
Network and Server	 **SFN IT** - Procured in Kit	 **Wall-mounted Racks**  **Actassi OPB and KDB** For commercial building
Severe Outdoor	 **PHD** - GRP  **SFN HD**	 **S3HD**
Seismic Environments	 **SFN 3G/6G**	 **S3D 6G**
Explosive Atmosphere		 **S3DEX**
Electro Magnetic Compatibility	 **SFN HF**	 **S3HF**

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Offer Overview and Selection Table

ClimaSys - **Thermal Management**

Cooling


Natural Airing


Smart Ventilation System


Forced Ventilation


Air-to-Water Exchangers

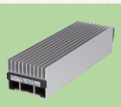

Air-to-Air Exchangers

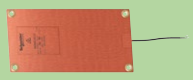

Cooling Units

Heating



Resistance Heaters


Aluminum PTC Heater


Ultra Thin Resistance Heater

Controlling


Smart Thermal Controllers


Thermal Controllers

ProClima Web
Designing the suitable thermal solution for your control panels.
Fully integrated into SEE Electrical from ETAP



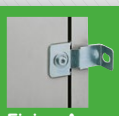
Accessories and Spare parts

Installation
Enclosures composition and installation


Canopy and Roofs


Panels - Side, Partition, Coupling


Floor Accessories


Fixing Accessories

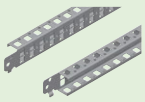

Lifting

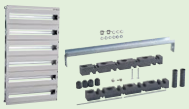
Cable Management
Outside and inside the enclosure


Cable Entries


Cable Holding

Mounting
For components assembly


Assembly - Mounting Plates, Cross Rails, Uprights, Chassis…


Electrical Distribution
Modular Chassis Busbar…


Door - Door Switch, Internal Doors Hinge and Closing…


Maintenance
Paint, Lighting

Spare Part


Cable Gland Plate


Doors - Doors + Accessories


Fixing Devices


Roof Accessories

Online Product Selector
Find accessories that suit your enclosure



PanelSeT Customization Services

Customization Services




Machining
Drilling, Miling, Deburring


Painting
Finishing


Accessories
Fitting


Expert Support for Advanced Projects

Custom Enclosure Configurator
Online customization, price quote and delivery lead time



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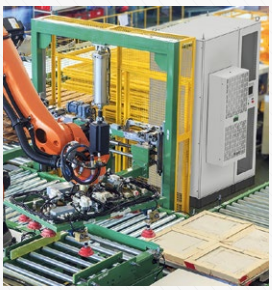
Industry and Infrastructure Offer

Material Matters: Choosing the Right Enclosure for Your Needs

We offer a comprehensive range of enclosures designed to meet diverse industrial and commercial needs. Our enclosures are available in three primary materials - steel, stainless steel, and plastic - each offering unique benefits tailored to specific environments and applications.

Steel

Robust Protection and Durability for Industrial Environments



Steel provides high resistance to mechanical stress and corrosion, making it well-suited for use in demanding mechanical plants, particularly for safeguarding electric and electronic components from dust, oil splashes, and impacts. Thanks to their robustness, durability and ability to protect sensitive equipment from harsh environmental conditions, steel enclosures are commonly used in:

- Manufacturing and Industrial Facilities,
- Power Generation and Distribution,
- Oil and Gas Industry,
- Transportation and Infrastructure.

Delving into Low-Carbon Steel: we are making a gradual shift towards utilizing low-carbon steel for our enclosures, following the pioneering example of the PanelSeT SFN cabinet. Crafted from 50% recycled steel in an electric arc furnace powered with 100% renewable electricity, this initiative has significantly reduced the carbon footprint by up to 34% compared to its previous version, while retaining the robustness and durability properties.

Stainless-Steel

Hygiene and corrosion-resistance



Stainless-steel provides superior corrosion resistance, making it suitable for use in highly corrosive environments, such as marine, chemical, and food processing industries. It's also known for its hygienic properties, making it suitable for applications requiring strict cleanliness standards. Stainless-steel enclosures are particularly recommended in the following industries:

- Food and beverage
- Pharmaceuticals
- Petrochemicals
- Infrastructure

Plastic (Polycarbonate, Polyester, ABS)

Rugged Reliability for Outdoor and Harsh Environments



These insulating materials offer lightweight and cost-effective solutions for indoor and outdoor applications where non-corrosive, non-conductive, and easy-to-install enclosures are needed. It is suitable for protecting electrical installations exposed to direct sunlight, rain, saline mist, extreme temperatures, oil splashes, chemical or corrosive agents, and public contact. It's often used in industries such as:

- Power Generation and Grid including Photovoltaic applications,
- Telecommunications,
- Automotive and eMobility,
- Residential applications.

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Industry and Infrastructure Offer

Our Product Ranges

Discover our universal enclosure solutions, versatile ranges of cabinets and thermal management equipment offering robust protection for electrical and electronic equipment, ensuring safety and reliability. With a variety of sizes, materials, accessories and customization options, we offer flexible solutions for your specific applications.

Steel



Panel**SeT**

From small boxes to large suitable floor-standing enclosures, PanelSeT steel ranges offer a fit for indoor clean industry and extensive options and easy-to-use accessories to help saving time.



Prisma**SeT** for Industry

Panel building system for power distribution switchboard dedicated for harsh environments, distributing up to 4000 A (PrismaSeT HD) or up to 6300 A (PrismaSeT 6300).



Actassi

Wall-mounting enclosures for IT applications (voice, data and image), hosting switches and servers in 19-inch racks, for commercial buildings and micro data centers.

Stainless-Steel



Panel**SeT**

Our stainless-steel boxes, wall-mounting or floor-standing enclosure ranges offer the optimal solution for cleanliness-sensitive or highly corrosive environments. Available in two grades:

- 304L stainless-steel commonly used in food production settings,
- 316L stainless steel (marine-grade) for saline or chlorinated environments.

Plastic



Panel**SeT**

Select the most suitable insulating material and pick customizable enclosures that will serve your business effectively:

- Polyester and polycarbonate modular boxes,
- ABS recycled-content industrial boxes,
- Fiberglass reinforced polyester enclosures to overcome outdoor installation challenges.

ClimaSys

Thermal Management



Maintaining the right temperature inside your enclosure is vital for maximizing the lifetime of your installed devices.

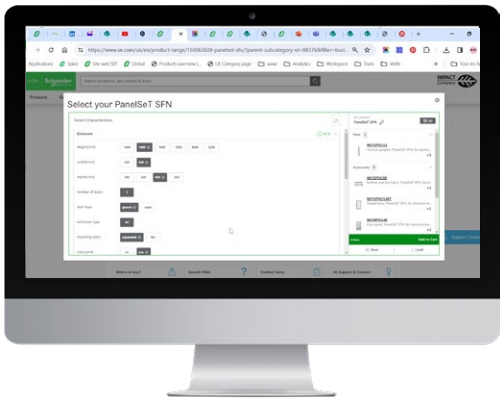
Our ClimaSys range offers you the right solution: airing, connected cooling or heating, including control units for temperature, humidity and many other parameters.

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Selection and Configuration Online Tools

Quickly select the right product, its components and accessories, or configure your enclosure solutions to suit your specific needs with our easy-to-use and free digital tools.

Product Selector



Save time by finding the exact product references of a selected range and its compatible components and accessories.

No need to log in, enjoy easy and error-free compatibility selection in just a few clicks.

>

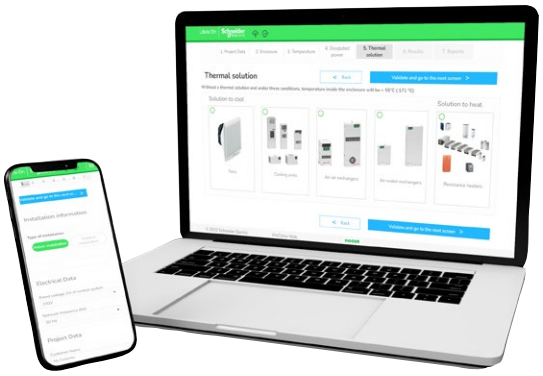
Access our full catalogue of Universal Enclosures and Thermal Management ranges directly from **www.se.com** website:

- Library of product data sheets, technical documentations, catalogues and brochures
- Product Certificates
- 2D and 3D drawings
- FAQ, technical and Commercial Support



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ProClima Web



Design the optimal thermal management solution for your control panels and keep up the health of electric and electronic devices inside your enclosures.
ProClima web tool features:

- 2 advanced algorithms for indoor and outdoor calculations
- Thermal databases with >10.000 weathering outdoor stations
- Mechanical compatibility between thermal solutions and enclosure
- Enclosure drawings to preview panel design
- Fully integrated into SEE Electrical from ETAP

Discover ProClima

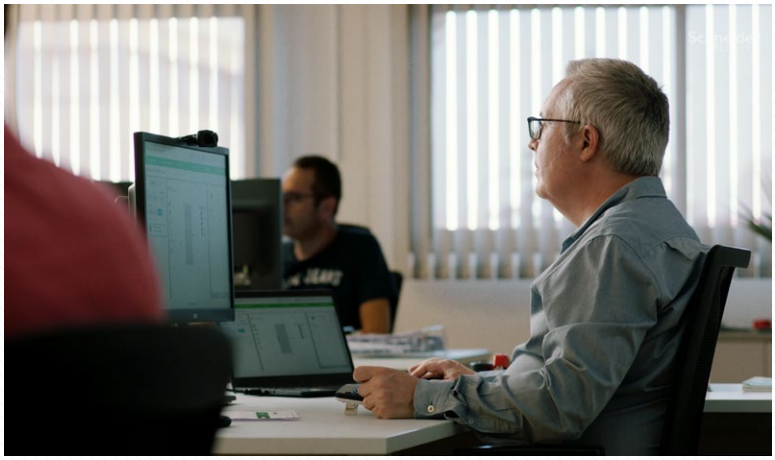
Custom Enclosure Configurator (CEC)

Custom Enclosure Configurator (CEC) allows to adjust enclosures to your specifications in a couple of minutes, instantly returning price quotation and delivery lead times.

It's a convenient, simple-to-use tool that gives you a wide variety of options to choose from, from different cutout shapes to paint colors and accessory fittings.

See next page for more information.

Custom Enclosure Configurator (CEC)



Watch the video

Available in France, Spain, Germany, Netherland and UK since 2023.

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Customization Services



Customization Services

Enclosure preparation takes precious time away from actual panel building

Preparing your enclosure can take a significant amount of time and manual labor. Not only that: achieving a high-quality final result can be challenging.

This work can make you lose time on tasks such as:
- Drilling cut-outs for push-buttons, light indicators and cable entries
- Adding device fitting plates and cable glands
- Milling
- Deburring
- Painting

That's where Schneider Electric's PanelSeT enclosure customization services fit in. We can insource the low-value customization work and get it done quickly for you. That way, your enclosures are ready for wiring when they arrive, saving your time and reducing costs, whilst improving the quality of your panels.

To Define your Basic Customization Projects, Choose the Custom Enclosure Configurator (CEC)

Specify settings and get a quote in a single tool, then email your order in

For basic customization work (see next page for advanced customization), the Custom Enclosure Configurator allows you to adjust the enclosure to your specifications in a couple of minutes.
And it provides you with a price quote and delivery lead time.

It's a convenient, simple-to-use tool that gives you a wide variety of options to choose from, from different cut-out shapes to paint colors and accessory fittings.

To Define Complex Customization Projects, Contact our Experts

For complex projects requiring advanced customization, a dedicated team of Schneider Electric experts will guide you through the process

Here's an outline of our advanced customization process:

- Provide your specifications
- Get a feasability study and quotation
- Confirm and place your order
- Manufacturing starts
- A quality assessment is performed
- Your product is delivered

For more information, consult the Customization Services Guide

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Customization Solutions in a Nutshel

Time Savings
Delivered with cut-outs and painting:
no waste of time

Logistics
- Flexible management of your logistics option (scheduled delivery service for on-going orders)
- Special packaging

Simplified Installation
Enclosures delivered with cut-outs:
no special tools required

Ergonomic Design
Customized project dedicated to your personal requirements

Increased Life-Time
- Cut-outs made before panting ensure corrosion protection and reliable sealing
- Painting service for better protection

Improved Quality
- No burrs on edges of cut-outs
- Help guarantee manufacturing tolerances

Aesthetics
- Large choice of colors
- No scratches in external surfaces

Higher Performance
- Adapted thermal management
- Higher-grade stainless-steel

For any information, refer to the Customization Services Guide
Ref : UEMKUG002EN



Let your Schneider Electric contact be your guide:
- Get your enclosures prepared by powerful industrial resources
- Benefit from execution compliant with Schneider Electric quality standards
- Obtain minimum lead time from specification to delivery

Contact your Schneider Electric sales representative

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Panel**SeT** Steel Enclosures

Steel Industrial Boxes



Steel Wall-Mounted Enclosures



Steel Floor-Standing Enclosures



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Content

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Steel Floor-Standing Enclosures	**62**

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Panel**SeT** Steel Enclosures

Steel Industrial Boxes

Panel**SeT** SDB: Junction Boxes

PB503350_61



Panel**SeT** SBM: Industrial Boxes

PB500237_38



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Panel**SeT** SDB: Junction Boxes

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Panel**SeT** SBM: Industrial Boxes

Introduction	**18**
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Panel**SeT** SDB and SBM

Introduction





Discover our enclosures for complementary control or distribution panels, requiring protection of electrical connections against heat or shock.

- PanelSeT SDB junction boxes are designed to suit transport infrastructures such as underground parking, road and rail tunnels.
- PanelSeT SBM are simple, ergonomic and versatile industrial boxes to protect electrical equipment in small control applications.
  Moreover, PanelSeT SBM can be configured to meet your specific requirements, supported by our customization services.

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PanelSeT SDB: Junction Boxes



Wide Range of Products
- Several dimensions
- Two versions: with or without knock outs



Easy Installation
- Holes heightened for internal fixation of accessories
- Maximal space inside

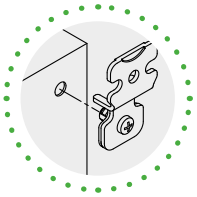


Designed for Robustness
- Simple and rounded design
- Watertightness: IP55

PanelSeT SBM: Industrial Boxes



Large Dimension Choice
- 28 sizes available



Easy Installation
- Direct mounting through the rear
- Mounting with versatile external lugs



Added Value to your Work
- Quality and aesthetics
- Mechanical protection rating up to IK10
- Ingress protection rating up to IP66

For PanelSeT SBM only

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

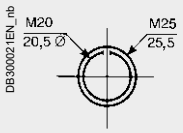
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PanelSeT SDB: Junction Boxes

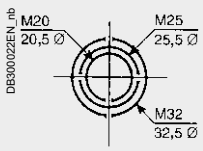
Characteristics

- PVC sealing gasket for sizes up to 206 x 156 mm and a rubber gasket for sizes > 256 x 206 mm.
- Back ready for threaded drill holes for fixing equipment.
  From size 155 x 105 mm and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate.
- Including low cover.
- The SDB series consists of 2 basic models:
  - Without knock-outs: **NSYDB●●●**
  - With knock-outs: **NSYDB●●●M**
- Material: Sheet steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK07 according to IEC 62262
- Indoor Installation: Wall-mounted with drill holes fitted with plastic plugs for sealing, in compliance with IEC 62208 standards for UV radiation (see §9.12) and corrosion resistance test (see §9.13).

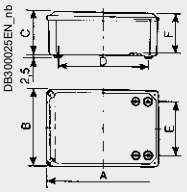
Group n° 1



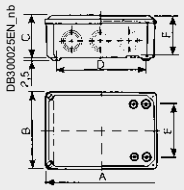
Group n° 2



NSYDBN●●●



NSYDB●●●M



Selection Table

Low Cover Models without Knock-Outs


NSYDBN1510

External dimensions (mm)			Dimensions (mm)			Weight	References
Height (A)	Width (B)	Depth (C)	D	E	F	(kg)	
85	85	49	58	58	-	0.18	**NSYDBN88**
105	105	49	76	76	-	0.25	**NSYDBN1010**
155	105	61	124	74	56	0.38	**NSYDBN1510**
206	156	83	172	122	78	1.00	**NSYDBN2015**
256	206	93	220	170	88	1.5	**NSYDBN2520**
307	257	116	268	218	110	3.3	**NSYDBN3025**

Low Cover Models with Knock-Outs


NSYDB2015M

External dimensions (mm)			Dimensions (mm)			Knock-outs		Weight	References
Height (A)	Width (B)	Depth (C)	D	E	F	Height (A)	Width (B)	(kg)	
85	85	49	58	58	-	1 n° 1	1 n° 1	0.18	**NSYDB88M**
105	105	49	76	76	-	2 n° 1	1 n° 1	0.25	**NSYDB1010M**
155	105	61	124	74	56	3 n° 1	1 n° 1	0.38	**NSYDB1510M**
206	156	83	172	122	78	3 n° 2	2 n° 2	1.00	**NSYDB2015M**

Accessories

Plain Mounting Plates for SDB Junction Boxes

for models without knock-outs	for models with knock-outs	References
NSYDBN1510	NSYDB1510M	**NSYPMD1510**
NSYDBN2015	NSYDB2015M	**NSYPMD2015**
NSYDBN2520	-	**NSYPMD2520**
NSYDBN3025	-	**NSYPMD3025**

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PanelSeT SBM: Industrial Boxes

Characteristics

Characteristics	PanelSeT SBM - Flat box with plain cover
	PB502069_40_nb 
Box body	Single-piece body (cross-shaped structure). Front design incorporating folded gutters. Flat rear. 2 (or 3 for width 800 mm) drilled profiles for installing mounting plates and DIN rails, with a mounting hole spacing of 12.5 mm.
Box cover	Equipped with 4 or 6 half-turn thread screws, according to the version (6 screws for width greater than 400 mm) to help ensure maximum watertightness. Polyurethane sealing gasket.
Protection of personnel	Ground connection mandatory for all boxes: PanelSeT SBM steel boxes are equipped with a M6 x 16 ground stud welded in the cover, to be linked with the body for equipotential connection. Grounding strap to be ordered separately (Ø 6.4 mm terminal).
Material	Sheet steel
Finish	Structured finish, epoxy polyester powder
Color	RAL 7035 gray
Ingress protection rating	• IP66 according to IEC 60529 • Types 4, 4X according to UL50E
Mechanical protection rating	IK10 according to IEC 62262
Standard	Compliance with enclosure standard IEC 62208, and RoHS and REACH directives
Certifications **(see page 610)**	• UL (cULus), BVM, DNV, TUV
Installation	Indoor. Direct wall-mounted (4 x Ø 10 mm holes) or with mounting lugs installed from the outside (to be ordered separately, see specific accessory pages).
Maximum load	Loading capacity on the body: 50 kg/m²
Vibration constraints	Specific construction of the PanelSeT SBM - single-piece body (rectangular structure). The rear is flat without added parts - this helps ensure compliance with certain vibration constraints.

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Panel**SeT** SBM: Industrial Boxes

Selection Table

				PanelSeT SBM			
						 Standard Bus box phased out	
Dimensions (mm)			**Cover screws**	**Flat box**	**Mounting plate without screws**	**DIN rail 10 rails, supplied without screws**	**Post mounting**
Height	**Width**	**Depth**					
150	150	80	4	**NSYSBM15158**	**NSYMM11SB**	**NSYAMRD15357SB**	-
150	150	120	4	**NSYSBM151512**	**NSYMM11SB**	**NSYAMRD15357SB**	-
150	200	80	4	**NSYSBM15208**	**NSYMM12SB**	**NSYAMRD20357SB**	-
150	200	120	4	**NSYSBM152012**	**NSYMM12SB**	**NSYAMRD20357SB**	-
150	300	80	4	**NSYSBM15308**	**NSYMM13SB**	**NSYAMRD30357SB**	**NSYSFPSC30**
150	300	120	4	**NSYSBM153012**	**NSYMM13SB**	**NSYAMRD30357SB**	**NSYSFPSC30**
150	400	80	4	**NSYSBM15408**	**NSYMM14SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
150	400	120	4	**NSYSBM154012**	**NSYMM14SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
200	200	80	4	**NSYSBM20208**	**NSYMM22SB**	**NSYAMRD20357SB**	-
200	200	120	4	**NSYSBM202012**	**NSYMM22SB**	**NSYAMRD20357SB**	-
200	300	80	4	**NSYSBM20308**	**NSYMM23SB**	**NSYAMRD30357SB**	**NSYSFPSC30**
200	300	120	4	**NSYSBM203012**	**NSYMM23SB**	**NSYAMRD30357SB**	**NSYSFPSC30**
200	400	80	4	**NSYSBM20408**	**NSYMM24SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
200	400	120	4	**NSYSBM204012**	**NSYMM24SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
200	500	80	6	**NSYSBM20508**	**NSYMM25SB**	**NSYAMRD50357SB**	**NSYSFPSC50**
200	500	120	6	**NSYSBM205012**	**NSYMM25SB**	**NSYAMRD50357SB**	**NSYSFPSC50**
200	600	80	6	**NSYSBM20608**	**NSYMM26SB**	**NSYAMRD60357SB**	**NSYSFPSC60**
200	600	120	6	**NSYSBM206012**	**NSYMM26SB**	**NSYAMRD60357SB**	**NSYSFPSC60**
200	800	120	6	**NSYSBM208012**	**NSYMM28SB**	**NSYAMRD80357SB**	**NSYSFPSC80**
300	300	120	4	**NSYSBM303012**	**NSYMM33SB**	**NSYAMRD30357SB**	**NSYSFPSC30**
300	400	120	4	**NSYSBM304012**	**NSYMM34SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
300	500	120	6	**NSYSBM305012**	**NSYMM35SB**	**NSYAMRD50357SB**	**NSYSFPSC50**
300	600	120	6	**NSYSBM306012**	**NSYMM36SB**	**NSYAMRD60357SB**	**NSYSFPSC60**
300	800	120	6	**NSYSBM308012**	**NSYMM38SB**	**NSYAMRD80357SB**	**NSYSFPSC80**
400	400	120	4	**NSYSBM404012**	**NSYMM44SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
400	500	120	6	**NSYSBM405012**	**NSYMM45SB**	**NSYAMRD50357SB**	**NSYSFPSC50**
400	600	120	6	**NSYSBM406012**	**NSYMM46SB**	**NSYAMRD60357SB**	**NSYSFPSC60**
400	800	120	6	**NSYSBM408012**	**NSYMM48SB**	**NSYAMRD80357SB**	**NSYSFPSC80**

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Panel**SeT** SBM: Industrial Boxes

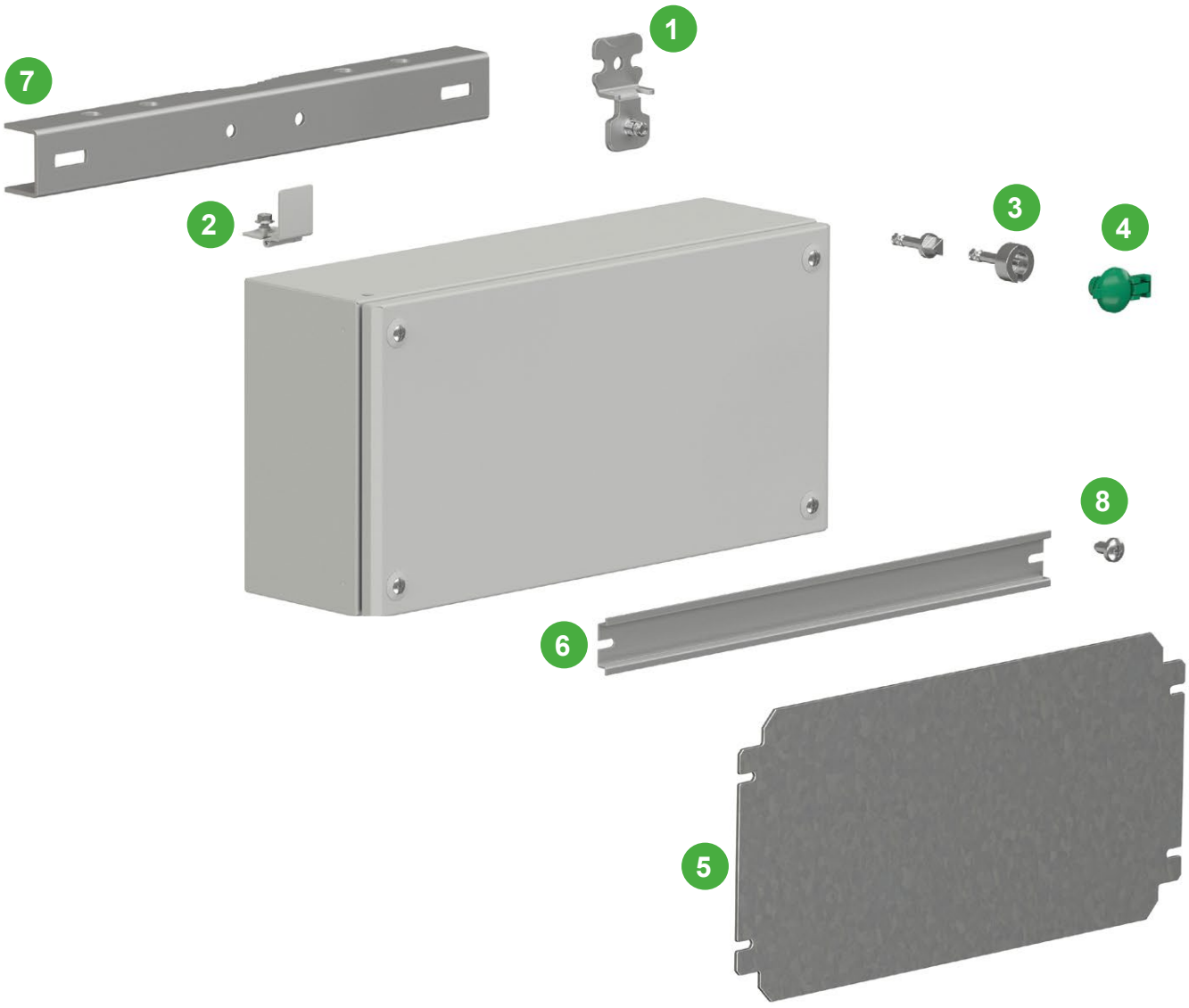
Selection Table

				Head screws					
	 1 gasket and necessary hardware								
	Mounting lugs	**Self-tapping screws**	**Hinges**	**Double-bar shaped head screw**	**Triangular shaped head screw**	**Sealing kit**	**Dimensions (mm)**		
							Height	**Width**	**Depth**
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	150	150	80
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	150	150	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	150	200	80
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	150	200	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	150	300	80
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	150	300	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	150	400	80
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	150	400	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	200	80
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	200	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	300	80
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	300	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	400	80
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	400	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	500	80
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	500	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	600	80
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	600	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	200	800	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	300	300	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	300	400	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	300	500	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	300	600	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	300	800	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	400	400	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	400	500	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	400	600	120
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB	400	800	120

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Panel**SeT** SBM: Industrial Boxes

Accessories



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Fixing Accessories

1



Mounting lugs

See details p. 522

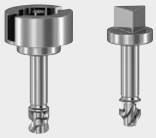
2



Hinges

See details p. 580

3



Head screws

See details p. 591

4



Sealing kit

See details p. 591

Mounting Accessories

5



Mounting plates

See details p. 474

6



Symetrical DIN rails

See details p. 489

7



Post fixing device

See details p. 529

8



Self-tapping screws

See details p. 591

> For more information consult the Accessories chapter **page 472**

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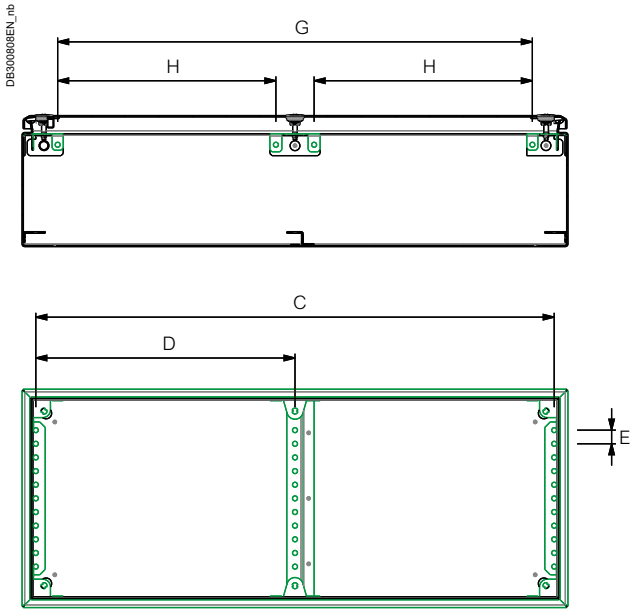
PanelSeT SBM: Industrial Boxes

Dimensions

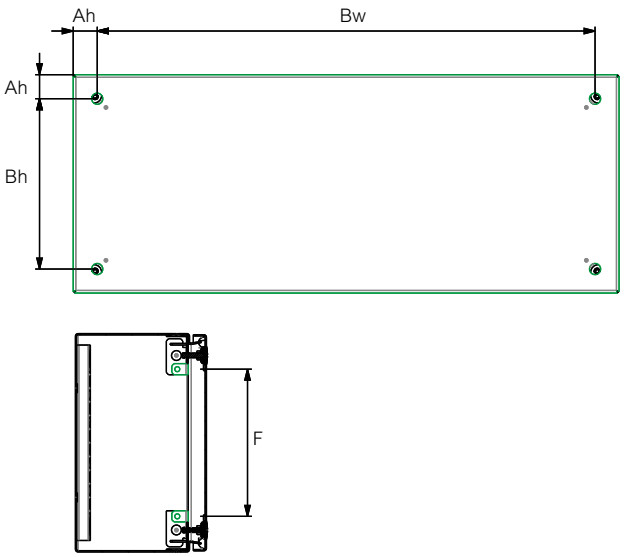
External Mounting of the Box and Mounting Accessories

Box		Mounting								
Height	Width	Ah	Bh	Bw	C	D	E	F	G	H
150 mm	150 mm	20.5 mm	109 mm	109 mm	125 mm	-	12.5 mm	85 mm	85 mm	-
	200 mm	20.5 mm	109 mm	159 mm	175 mm	-	12.5 mm	85 mm	135 mm	-
	300 mm	20.5 mm	109 mm	259 mm	275 mm	-	12.5 mm	85 mm	235 mm	-
	400 mm	20.5 mm	109 mm	359 mm	375 mm	-	12.5 mm	85 mm	335 mm	-
200 mm	200 mm	20.5 mm	159 mm	159 mm	175 mm	-	12.5 mm	135 mm	135 mm	-
	300 mm	20.5 mm	159 mm	259 mm	275 mm	-	12.5 mm	135 mm	235 mm	-
	400 mm	20.5 mm	159 mm	359 mm	375 mm	-	12.5 mm	135 mm	335 mm	-
	500 mm	20.5 mm	159 mm	459 mm	475 mm	-	12.5 mm	135 mm	435 mm	200 mm
	600 mm	20.5 mm	159 mm	559 mm	575 mm	-	12.5 mm	135 mm	535 mm	250 mm
	800 mm	20.5 mm	159 mm	759 mm	775 mm	387.5 mm	12.5 mm	135 mm	735 mm	350 mm
300 mm	300 mm	20.5 mm	259 mm	259 mm	275 mm	-	12.5 mm	235 mm	235 mm	-
	400 mm	20.5 mm	259 mm	359 mm	375 mm	-	12.5 mm	235 mm	335 mm	-
	500 mm	20.5 mm	259 mm	459 mm	475 mm	-	12.5 mm	235 mm	435 mm	200 mm
	600 mm	20.5 mm	259 mm	559 mm	575 mm	-	12.5 mm	235 mm	535 mm	250 mm
	800 mm	20.5 mm	259 mm	759 mm	775 mm	387.5 mm	12.5 mm	235 mm	735 mm	350 mm
400 mm	400 mm	20.5 mm	359 mm	359 mm	375 mm	-	12.5 mm	335 mm	335 mm	-
	500 mm	20.5 mm	359 mm	459 mm	475 mm	-	12.5 mm	335 mm	435 mm	200 mm
	600 mm	20.5 mm	359 mm	559 mm	575 mm	-	12.5 mm	335 mm	535 mm	250 mm
	800 mm	20.5 mm	359 mm	759 mm	775 mm	387.5 mm	12.5 mm	335 mm	735 mm	350 mm

Section A-A



Section B-B



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Panel**SeT** Steel Enclosures

Steel Wall-Mounted Enclosures

Panel**SeT** CRN

PB600369_68



Panel**SeT** S3D

PB600199_48_nb



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Panel**SeT** CRN

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Panel**SeT** S3D

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Panel**SeT** CRN

Introduction





The PanelSeT CRN Steel Wall-Mounting Enclosure is developed for indoor, non-clean industrial environments. It has a wide range of sizes suitable for use in industrial automation and control, electrical distribution, electronics, and industrial networks.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

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Built to Last

- Industrial welding process
- Epoxy-polyester painting
- Molded polyurethane gasket
- Front folded gutter

These features help ensure quality as well as water and dust tightness over time.



Enhanced Safety

For people:

- Two welded M6 x 15 earth studs welded to the back and one M6 x 15 stud on the door

For your installation:

- Water and dust tightness IP66
- Mechanical protection IK10 to help protect your components from external impact
- Concealed hinges to help prevent removal of the door



Smart

- Welded door reinforcement profile allowing the fixing of equipment in models from 500 mm in height



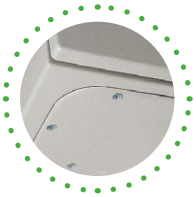
Flexible

- Optional version with glazed door including tempered glass, providing IK08 protection against water and dust ingress



Ready to Assemble

- 4 or 6 welded M8 x 15 back studs with 10-mm collar for direct installation of mounting plate



Convenient

- Large embedded cable-entry plate with a neoprene gasket, flush with the back of the enclosure
- Two fixing options: direct or using the outside brackets

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

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Steel Wall-Mounted Enclosures

Panel**SeT** CRN

Characteristics

Characteristics	PanelSeT CRN
	 PB500369_68
	56 dimensions for this metal monobloc, 14 of them with three-point locking system. Back piece joined to the sides using a special profile forming a sealed area.
Material	Steel
Finish	Structured finish, epoxy-polyester powder
Color	RAL 7035 gray
Ingress protection rating	• IP66 for one-door enclosures according to IEC 60529 • IP55 for two-door enclosures according to IEC 60529
Mechanical protection rating	IK10 for plain door and IK08 for glazed door according to IEC 62262
Standard	Compliance with enclosure standard IEC 62208, and RoHS and REACH directives
Certifications **(see page 610)**	• UL (cULus), CUL • Single-door: types 1, 2, 3, 3R, 4, 5, 12 and 13 Double-door: types 1, 12 and 13
Installation	• Given their strength, metal enclosures are particularly well suited to indoor areas where they may experience impacts
Supply	**Body** • 4 holes for direct fixing • Wall-fixing drill holes sealed with plastic plugs to help ensure the degree of protection (supplied as standard) • Wall-fixing bracket fixed from outside (brackets to be ordered separately) • Direct cable entry • Built-in cable-entry plate, flush with the back of the enclosure (without foamed-in gasket to facilitate machining) • Insulated cable entries with knock-outs, available as an accessory • Easy to equip with 4 or 6 welded back studs shouldered 10 mm **Door** • 3-mm double-bar lock as standard. (Wide choice of inserts as accessories and three-point locking system for heights from 1200 mm and widths from 1000 mm with standard 5-mm double-bar lock. Door-centering piece on two-door enclosures to help ensure proper door alignment) • Foamed-in polyurethane gasket on the doors to help guarantee water and dust tightness • Easily reversible door, fixed with two or three invisible metal hinges allowing the door to open to 120° • Reinforcement on plain doors with welded perforated door profiles for equipment fixing from models NSYCRN54150 • Welded earth studs on door and body • Delivered with a reusable packaging and technical instructions

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Steel Wall-Mounted Enclosures

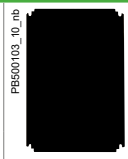
Panel**SeT** CRN

Selection Table

Dimensions (mm)						Enclosures			Mounting plates		
						 PB500096_13_nb		 PB500097_13_1_1_nb	 PB500072_13_nb	 PB500101_16_nb	 PB500102_15_nb
Height (A)	Width (B)	Depth (C)	Doors	IP	Weight (kg) (1)	with plain door, with mounting plate	with plain door, without mounting plate	with glazed door, without mounting plate	Plain	Microperforated	Telequick
200	200	150	1	66	2.5	-	NSYCRN22150 (2)	-	NSYMM22	-	-
200	300	150	1	66	3.9	-	NSYCRN23150 (2)	-	NSYMM32	NSYMF32	-
250	200	150	1	66	3.2	NSYCRN252150P	NSYCRN252150	-	NSYMM2520	-	-
300	250	150	1	66	4.2	NSYCRN325150P	NSYCRN325150	NSYCRN325150T	NSYMM3025	-	NSYMR3025
300	250	200	1	66	4.9	NSYCRN325200P	NSYCRN325200	NSYCRN325200T	NSYMM3025	-	NSYMR3025
300	300	150	1	66	5.0	NSYCRN33150P	NSYCRN33150	NSYCRN33150T	NSYMM33	NSYMF33	NSYMR33
300	300	200	1	66	6.0	NSYCRN33200P	NSYCRN33200	NSYCRN33200T	NSYMM33	NSYMF33	NSYMR33
300	400	200	1	66	6.4	-	NSYCRN34200	NSYCRN34200T	NSYMM43	NSYMF43	NSYMR34
300	450	150	1	66	6.7	-	NSYCRN345150	-	NSYMM3045	-	-
400	300	150	1	66	6.0	NSYCRN43150P	NSYCRN43150	NSYCRN43150T	NSYMM43	NSYMF43	NSYMR43
400	300	200	1	66	6.8	NSYCRN43200P	NSYCRN43200	NSYCRN43200T	NSYMM43	NSYMF43	NSYMR43
400	400	200	1	66	8.0	NSYCRN44200P	NSYCRN44200	NSYCRN44200T	NSYMM44	NSYMF44	NSYMR44
400	600	250	1	66	10.0	NSYCRN46250P	NSYCRN46250	NSYCRN46250T	NSYMM64	NSYMF64	NSYMR46
400	600	300	1	66	11.2	-	NSYCRN46300	-	NSYMM64	NSYMF64	NSYMR46
500	400	150	1	66	8.7	NSYCRN54150P	NSYCRN54150	NSYCRN54150T	NSYMM54	NSYMF54	NSYMR54
500	400	200	1	66	9.8	NSYCRN54200P	NSYCRN54200	NSYCRN54200T	NSYMM54	NSYMF54	NSYMR54
500	400	250	1	66	11.0	NSYCRN54250P	NSYCRN54250	NSYCRN54250T	NSYMM54	NSYMF54	NSYMR54
500	500	250	1	66	12.8	NSYCRN55250P	NSYCRN55250	NSYCRN55250T	NSYMM55	NSYMF55	NSYMR55
600	400	150	1	66	9.3	NSYCRN64150P	NSYCRN64150	NSYCRN64150T	NSYMM64	NSYMF64	NSYMR64
600	400	200	1	66	10.8	NSYCRN64200P	NSYCRN64200	NSYCRN64200T	NSYMM64	NSYMF64	NSYMR64
600	400	250	1	66	12.3	NSYCRN64250P	NSYCRN64250	NSYCRN64250T	NSYMM64	NSYMF64	NSYMR64
600	500	150	1	66	11.3	NSYCRN65150P	NSYCRN65150	-	NSYMM65	NSYMF65	NSYMR65
600	500	200	1	66	14.3	NSYCRN65200P	NSYCRN65200	NSYCRN65200T	NSYMM65	NSYMF65	NSYMR65
600	500	250	1	66	16.2	NSYCRN65250P	NSYCRN65250	NSYCRN65250T	NSYMM65	NSYMF65	NSYMR65
600	600	200	1	66	16.3	NSYCRN66200P	NSYCRN66200	NSYCRN66200T	NSYMM66	NSYMF66	NSYMR66
600	600	250	1	66	18.2	NSYCRN66250P	NSYCRN66250	NSYCRN66250T	NSYMM66	NSYMF66	NSYMR66
600	600	300	1	66	19.8	NSYCRN66300P	NSYCRN66300	NSYCRN66300T	NSYMM66	NSYMF66	NSYMR66
600	800	300	1	66	26.0	-	NSYCRN68300	NSYCRN68300T	NSYMM86	NSYMF86	NSYMR68
700	500	200	1	66	17.3	NSYCRN75200P	NSYCRN75200	NSYCRN75200T	NSYMM75	NSYMF75	NSYMR75
700	500	250	1	66	19.3	NSYCRN75250P	NSYCRN75250	NSYCRN75250T	NSYMM75	NSYMF75	NSYMR75
800	600	200	1	66	21.8	NSYCRN86200P	NSYCRN86200	NSYCRN86200T	NSYMM86	NSYMF86	NSYMR86
800	600	250	1	66	24.8	NSYCRN86250P	NSYCRN86250	NSYCRN86250T	NSYMM86	NSYMF86	NSYMR86
800	600	300	1	66	26.3	NSYCRN86300P	NSYCRN86300	NSYCRN86300T	NSYMM86	NSYMF86	NSYMR86
800	600	400	1	66	30.0	-	NSYCRN86400	NSYCRN86400T	NSYMM86	NSYMF86	NSYMR86
800	800	200	1	66	29.5	NSYCRN88200P	NSYCRN88200	-	NSYMM88	NSYMF88	NSYMR88
800	800	300	1	66	32.5	NSYCRN88300P	NSYCRN88300	NSYCRN88300T	NSYMM88	NSYMF88	NSYMR88
800	1000	300	2	55	40.0	-	NSYCRN810300D	-	NSYMM108	NSYMF108	NSYMR810
800	1200	300	2	55	46.0	-	NSYCRN812300D	-	NSYMM128	NSYMF128	2 x NSYMR86
1000	600	250	1	66	28.4	NSYCRN106250P	NSYCRN106250	NSYCRN106250T	NSYMM106	NSYMF106	NSYMR106
1000	600	300	1	66	30.6	NSYCRN106300P	NSYCRN106300	NSYCRN106300T	NSYMM106	NSYMF106	NSYMR106
1000	600	400	1	66	36.0	-	NSYCRN106400	NSYCRN106400T	NSYMM106	NSYMF106	NSYMR106
1000	800	250	1	66	34.5	NSYCRN108250P	NSYCRN108250	NSYCRN108250T	NSYMM108	NSYMF108	NSYMR108
1000	800	300	1	66	37.4	NSYCRN108300P	NSYCRN108300	NSYCRN108300T	NSYMM108	NSYMF108	NSYMR108
1000	800	400	1	66	43.0	-	NSYCRN108400	NSYCRN108400T	NSYMM108	NSYMF108	NSYMR108
1000	1000	300	2 (3)	55	47.0	-	NSYCRN1010300D	NSYCRN1010300T	NSYMM1010	NSYMF1010	NSYMR1010 (4)
1000	1200	300	2	55	55.0	-	NSYCRN1012300D	-	NSYMM1210	NSYMF1210	NSYMR1012 (4)
1000	1200	400	2	55	60.0	-	NSYCRN1012400D	-	NSYMM1210	NSYMF1210	NSYMR1012 (4)
1200	600	300	1	66	37.0	-	NSYCRN126300	NSYCRN126300T	NSYMM126	NSYMF126	NSYMR126
1200	600	400	1	66	42.0	-	NSYCRN126400	NSYCRN126400T	NSYMM126	NSYMF126	NSYMR126
1200	800	300	1	66	45.0	-	NSYCRN128300	NSYCRN128300T	NSYMM128	NSYMF128	NSYMR128
1200	800	400	1	66	50.0	-	NSYCRN128400	NSYCRN128400T	NSYMM128	NSYMF128	NSYMR128
1200	1000	300	2	55	56.0	-	NSYCRN1210300D	-	NSYMM1210	NSYMF1210	NSYMR1210 (4)
1200	1000	400	2	55	61.0	-	NSYCRN1210400D	-	NSYMM1210	NSYMF1210	NSYMR1210 (4)
1200	1200	300	2	55	64.0	-	NSYCRN1212300D	-	NSYMM1212	2 x NSYMF126	2 x NSYMR126
1200	1200	400	2	55	90.0	-	NSYCRN1212400D	-	NSYMM1212	2 x NSYMF126	2 x NSYMR126
1400	1000	300	2	55	80.0	-	NSYCRN1410300D	-	NSYMM1410	-	NSYMR1410 (4)

(1) Enclosure without mounting plate.
(2) Two cable gland plates, one on the top, one on the bottom.
(3) Except glazed door in single-door.
(4) Ref. **NSYEMR** mandatory.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

			Cable entries					
						Dimensions (mm)		
	Bakelite	DIN rail chassis	Type of cable entry	Cable gland plate standard	Cable gland plate insulated	Height (A)	Width (B)	Depth (C)
	-	-	0	NSYTLCRNO	-	200	200	150
	NSYMB32	-	B	NSYTLCRNB	-	200	300	150
	-	-	0	NSYTLCRNO	-	250	200	150
	NSYMB3025	-	A	NSYTLCRNA	-	300	250	150
	NSYMB3025	-	A	NSYTLCRNA	-	300	250	200
	NSYMB33	NSYMD33	B	NSYTLCRNB	NSYTSACRNB	300	300	150
	NSYMB33	NSYMD33	B	NSYTLCRNB	NSYTSACRNB	300	300	200
	NSYMB43	-	C	NSYTLCRNC	NSYTSACRNC	300	400	200
	NSYMB43	-	B	NSYTLCRNB	NSYTSACRNB	300	450	150
	NSYMB43	NSYMD43	B	NSYTLCRNB	NSYTSACRNB	400	300	150
	NSYMB43	NSYMD43	B	NSYTLCRNB	NSYTSACRNB	400	300	200
	-	-	C	NSYTLCRNC	NSYTSACRNC	400	400	200
	NSYMB64	-	D	NSYTLCRND	NSYTSACRND	400	600	250
	NSYMB64	-	D	NSYTLCRND	NSYTSACRND	400	600	300
	NSYMB54	NSYMD54	B	NSYTLCRNB	NSYTSACRNB	500	400	150
	NSYMB54	NSYMD54	C	NSYTLCRNC	NSYTSACRNC	500	400	200
	NSYMB54	NSYMD54	C	NSYTLCRNC	NSYTSACRNC	500	400	250
	-	-	D	NSYTLCRND	NSYTSACRND	500	500	250
	NSYMB64	NSYMD64	B	NSYTLCRNB	NSYTSACRNB	600	400	150
	NSYMB64	NSYMD64	C	NSYTLCRNC	NSYTSACRNC	600	400	200
	NSYMB64	NSYMD64	C	NSYTLCRNC	NSYTSACRNC	600	400	250
	NSYMB65	-	B	NSYTLCRNB	NSYTSACRNB	600	500	150
	NSYMB65	-	D	NSYTLCRND	NSYTSACRND	600	500	200
	NSYMB65	-	D	NSYTLCRND	NSYTSACRND	600	500	250
	-	NSYMD66	D	NSYTLCRND	NSYTSACRND	600	600	200
	-	NSYMD66	D	NSYTLCRND	NSYTSACRND	600	600	250
	-	NSYMD66	D	NSYTLCRND	NSYTSACRND	600	600	300
	-	-	E	NSYTLCRNC (5)	NSYTSACRNC	600	800	300
	NSYMB75	NSYMD75	D	NSYTLCRND	NSYTSACRND	700	500	200
	NSYMB75	NSYMD75	D	NSYTLCRND	NSYTSACRND	700	500	250
	NSYMB86	NSYMD86	D	NSYTLCRND	NSYTSACRND	800	600	200
	NSYMB86	NSYMD86	D	NSYTLCRND	NSYTSACRND	800	600	250
	NSYMB86	NSYMD86	D	NSYTLCRND	NSYTSACRND	800	600	300
	NSYMB86	NSYMD86	D	NSYTLCRND	NSYTSACRND	800	600	400
	-	-	E	NSYTLCRNC (5)	NSYTSACRNC (6)	800	800	200
	-	-	E	NSYTLCRNC (5)	NSYTSACRNC (6)	800	800	300
	-	-	D	2 x NSYTLCRND	2 x NSYTSACRND	800	1000	300
	-	-	D	2 x NSYTLCRND	2 x NSYTSACRND	800	1200	300
	-	-	D	NSYTLCRND	NSYTSACRND	1000	600	250
	-	-	D	NSYTLCRND	NSYTSACRND	1000	600	300
	-	-	D	NSYTLCRND	NSYTSACRND	1000	600	400
	NSYMB108	NSYMD108	E	NSYTLCRNC (5)	NSYTSACRNC (6)	1000	800	250
	NSYMB108	NSYMD108	E	NSYTLCRNC (5)	NSYTSACRNC (6)	1000	800	300
	NSYMB108	NSYMD108	C	2 x NSYTLCRNC	2 x NSYTSACRNC	1000	800	400
	NSYMB1210	-	D	2 x NSYTLCRND	2 x NSYTSACRND	1000	1000	300
	NSYMB1210	-	D	2 x NSYTLCRND	2 x NSYTSACRND	1000	1200	300
	-	-	D	2 x NSYTLCRND	2 x NSYTSACRND	1000	1200	400
	-	-	D	NSYTLCRND	NSYTSACRND	1200	600	300
	-	-	D	NSYTLCRND	NSYTSACRND	1200	600	400
	-	NSYMD128	C	2 x NSYTLCRNC	2 x NSYTSACRNC	1200	800	300
	-	NSYMD128	C	2 x NSYTLCRNC	2 x NSYTSACRNC	1200	800	400
	NSYMB1210	-	D	2 x NSYTLCRND	2 x NSYTSACRND	1200	1000	300
	NSYMB1210	-	D	2 x NSYTLCRND	2 x NSYTSACRND	1200	1000	400
	-	-	D	2 x NSYTLCRND	2 x NSYTSACRND	1200	1200	300
	-	-	D	2 x NSYTLCRND	2 x NSYTSACRND	1200	1200	400
	-	-	D	2 x NSYTLCRND	2 x NSYTSACRND	1400	1000	300

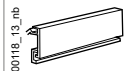
(5) With two holes.
(6) For flange openings type E, two **NSYTSACRNC** are required.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel Wall-Mounted Enclosures

Panel**SeT** CRN

Selection Table

Dimensions (mm)				Electric distribution					
				 PB500152_33_nb	 PB500381_19_nb	 PB500382_16_nb	 NSYCTL600DLM	 NSYPMP600DLM	 DB300118_13_nb
Height	Width	Depth	Doors	DLA insulated Distribution chassis	DL metal distribution chassis	DLM metal distribution chassis	Plain cover plate for DLM	Mounting plate for DLM	Blanking plate
200	200	150	1	-	-	-	-	-	-
200	300	150	1	-	-	-	-	-	-
250	200	150	1	-	-	-	-	-	-
300	250	150	1	-	NSYDLCR18	-	-	-	-
300	250	200	1	-	NSYDLCR18	-	-	-	-
300	300	150	1	-	-	-	-	-	-
300	300	200	1	-	-	-	-	-	-
300	400	200	1	-	-	-	-	-	-
300	450	150	1	-	-	-	-	-	-
400	300	150	1	NSYDLA24G	NSYDLCR24	NSYDLM24	-	-	NSYATP72M
400	300	200	1	NSYDLA24G	NSYDLCR36	NSYDLM24	-	-	NSYATP72M
400	400	200	1	-	NSYDLCR24 (1)	-	-	-	-
400	600	250	1	-	NSYDLCR36 (1)	-	-	-	-
400	600	300	1	-	-	-	-	-	-
500	400	150	1	NSYDLA48G	-	NSYDLM48	-	-	NSYATP72M
500	400	200	1	NSYDLA48G	-	NSYDLM48	-	-	NSYATP72M
500	400	250	1	NSYDLA48G	NSYDLCR48	NSYDLM48	-	-	NSYATP72M
500	500	250	1	-	NSYDLCR48 (1)	-	-	-	-
600	400	150	1	NSYDLA48PG	-	NSYDLM48P	-	-	NSYATP72M
600	400	200	1	NSYDLA48PG	-	NSYDLM48P	-	-	NSYATP72M
600	400	250	1	NSYDLA48PG	NSYDLCR64	NSYDLM48P	-	-	NSYATP72M
600	500	150	1	-	NSYDLCR64	-	-	-	-
600	500	200	1	-	-	-	-	-	-
600	500	250	1	-	NSYDLCR88	-	-	-	-
600	600	200	1	-	NSYDLCR88	NSYDLM84P	NSYCTL600DLM	-	NSYATP72M
600	600	250	1	-	-	NSYDLM84P	NSYCTL600DLM	-	-
600	600	300	1	-	-	NSYDLM84P	NSYCTL600DLM	-	NSYATP72M
600	800	300	1	-	-	-	-	-	-
700	500	200	1	NSYDLA66G / NSYDLA88G	-	NSYDLM66 / NSYDLM88	NSYCTL500DLM	-	NSYATP72M
700	500	250	1	NSYDLA66G / NSYDLA88G	-	NSYDLM66 / NSYDLM88	NSYCTL500DLM	-	NSYATP72M
800	600	200	1	NSYDLA84G / NSYDLA112G	NSYDLCR110	NSYDLM84 / NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72M
800	600	250	1	NSYDLA84G / NSYDLA112G	-	NSYDLM84 / NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72M
800	600	300	1	NSYDLA84G / NSYDLA112G	NSYDLCR135	NSYDLM84 / NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72M
800	600	400	1	NSYDLA84G / NSYDLA112G	-	NSYDLM84 / NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72M
800	800	200	1	-	-	-	-	-	-
800	800	300	1	-	-	-	-	-	-
800	1000	300	2	-	-	-	-	-	-
800	1200	300	2	-	-	-	-	-	-
1000	600	250	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72M
1000	600	300	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72M
1000	600	400	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72M
1000	800	250	1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72M
1000	800	300	1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72M
1000	800	400	1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72M
1000	1000	300	2	-	-	-	-	-	-
1000	1200	300	2	-	-	-	-	-	-
1000	1200	400	2	-	-	-	-	-	-
1200	600	300	1	-	-	-	-	-	-
1200	600	400	1	-	-	-	-	-	-
1200	800	300	1	-	-	-	-	-	-
1200	800	400	1	-	-	-	-	-	-
1200	1000	300	2	-	-	-	-	-	-
1200	1000	400	2	-	-	-	-	-	-
1200	1200	300	2	-	-	-	-	-	-
1200	1200	400	2	-	-	-	-	-	-
1400	1000	300	2	-	-	-	-	-	-

(1) To install the plinth to a wall-mounted enclosure, order ref. **NSYAPFWM**.

- For other dimensions, see our application offer.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Electronic and network		Plinths (100 mm)		Plinths (200 mm)		Installation system			Dimensions (mm)		
 PB500383_21_nb		 NSYSPF6100		 NSYSPF6200		 PB500328_12_nb	 PB500111_14_nb	 PB502979_5_nb			
Fixed 19" rack	Swing 19" rack	Single plinths side plate (1)	Single plinths front plate (1)	Single plinths side plate (1)	Single plinths front plate (1)	Internal door	Step slides	Wall-fixing lugs	Height	Width	Depth
-	-	-	-	-	-	-	-	NSYPFCR	200	200	150
-	-	-	-	-	-	-	-	NSYPFCR	200	300	150
-	-	-	-	-	-	-	-	NSYPFCR	250	200	150
-	-	-	-	-	-	-	-	NSYPFCR	300	250	150
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR	300	250	200
-	-	-	-	-	-	-	-	NSYPFCR	300	300	150
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR	300	300	200
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR	300	400	200
-	-	-	-	-	-	-	-	NSYPFCR	300	450	150
-	-	-	-	-	-	NSYPIN43	-	NSYPFCR	400	300	150
-	-	-	-	-	-	NSYPIN43	NSYSDCR200	NSYPFCR	400	300	200
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR	400	400	200
NSYVDM8UF	-	-	-	-	-	-	NSYSDCR250	NSYPFCR	400	600	250
NSYVDM8UF	-	NSYSPS3100SD	NSYSPF6100	NSYSPS3200SD	NSYSPF6200	-	NSYSDCR300	NSYPFCR	400	600	300
-	-	-	-	-	-	NSYPIN54	-	NSYPFCR	500	400	150
-	-	-	-	-	-	NSYPIN54	NSYSDCR200	NSYPFCR	500	400	200
-	-	-	-	-	-	NSYPIN54	NSYSDCR250	NSYPFCR	500	400	250
-	-	-	-	-	-	-	NSYSDCR250	NSYPFCR	500	500	250
-	-	-	-	-	-	NSYPIN64	-	NSYPFCR	600	400	150
-	-	-	-	-	-	NSYPIN64	NSYSDCR200	NSYPFCR	600	400	200
-	-	-	-	-	-	NSYPIN64	NSYSDCR250	NSYPFCR	600	400	250
-	-	-	-	-	-	-	-	NSYPFCR	600	500	150
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR	600	500	200
-	-	-	-	-	-	-	NSYSDCR250	NSYPFCR	600	500	250
NSYVDM12UF	NSYVDM11UP	-	-	-	-	-	NSYSDCR200	NSYPFCR	600	600	200
NSYVDM12UF	NSYVDM11UP	-	-	-	-	-	NSYSDCR250	NSYPFCR	600	600	250
NSYVDM12UF	NSYVDM11UP	NSYSPS3100SD	NSYSPF6100	NSYSPS3200SD	NSYSPF6200	-	NSYSDCR300	NSYPFCR	600	600	300
-	-	NSYSPS3100SD	NSYSPF8100	NSYSPS3200SD	NSYSPF8200	-	NSYSDCR300	NSYPFCR	600	800	300
-	-	-	-	-	-	NSYPIN75	NSYSDCR200	NSYPFCR	700	500	200
-	-	-	-	-	-	NSYPIN75	NSYSDCR250	NSYPFCR	700	500	250
NSYVDM17UF	-	-	-	-	-	NSYPIN86	NSYSDCR200	NSYPFCR	800	600	200
NSYVDM17UF	NSYVDM16UP	-	-	-	-	NSYPIN86	NSYSDCR250	NSYPFCR	800	600	250
NSYVDM17UF	NSYVDM16UP	NSYSPS3100SD	NSYSPF6100	NSYSPS3200SD	NSYSPF6200	NSYPIN86	NSYSDCR300	NSYPFCR	800	600	300
NSYVDM17UF	NSYVDM16UP	NSYSPS4100SD	NSYSPF6100	NSYSPS4200SD	NSYSPF6200	NSYPIN86	NSYSDCR400	NSYPFCR	800	600	400
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR	800	800	200
-	-	NSYSPS3100SD	NSYSPF8100	NSYSPS3200SD	NSYSPF8200	-	NSYSDCR300	NSYPFCR	800	800	300
-	-	NSYSPS3100SD	NSYSPF10100	NSYSPS3200SD	NSYSPF10200	-	NSYSDCR300	NSYPFCR	800	1000	300
-	-	NSYSPS3100SD	NSYSPF12100	NSYSPS3200SD	NSYSPF12200	-	NSYSDCR300	NSYPFCR	800	1200	300
NSYVDM21UF	NSYVDM20UP	-	-	-	-	NSYPIN106	NSYSDCR250	NSYPFCR	1000	600	250
NSYVDM21UF	NSYVDM20UP	NSYSPS3100SD	NSYSPF6100	NSYSPS3200SD	NSYSPF6200	NSYPIN106	NSYSDCR300	NSYPFCR	1000	600	300
NSYVDM21UF	NSYVDM20UP	NSYSPS4100SD	NSYSPF6100	NSYSPS4200SD	NSYSPF6200	NSYPIN106	NSYSDCR400	NSYPFCR	1000	600	400
-	NSYVDM20U8P	-	-	-	-	NSYPIN108	NSYSDCR250	NSYPFCR	1000	800	250
-	NSYVDM20U8P	NSYSPS3100SD	NSYSPF8100	NSYSPS3200SD	NSYSPF8200	NSYPIN108	NSYSDCR300	NSYPFCR	1000	800	300
-	NSYVDM20U8P	NSYSPS4100SD	NSYSPF8100	NSYSPS4200SD	NSYSPF8200	NSYPIN108	NSYSDCR400	NSYPFCR	1000	800	400
-	-	NSYSPS3100SD	NSYSPF10100	NSYSPS3200SD	NSYSPF10200	-	NSYSDCR300	NSYPFCR	1000	1000	300
-	-	NSYSPS3100SD	NSYSPF12100	NSYSPS3200SD	NSYSPF12200	-	NSYSDCR300	NSYPFCR	1000	1200	300
-	-	NSYSPS4100SD	NSYSPF12100	NSYSPS4200SD	NSYSPF12200	-	NSYSDCR400	NSYPFCR	1000	1200	400
-	-	NSYSPS3100SD	NSYSPF6100	NSYSPS3200SD	NSYSPF6200	NSYPIN126	NSYSDCR300	NSYPFCR	1200	600	300
-	-	NSYSPS4100SD	NSYSPF6100	NSYSPS4200SD	NSYSPF6200	NSYPIN126	NSYSDCR400	NSYPFCR	1200	600	400
-	NSYVDM25U8P	NSYSPS3100SD	NSYSPF8100	NSYSPS3200SD	NSYSPF8200	NSYPIN128	NSYSDCR300	NSYPFCR	1200	800	300
-	NSYVDM25U8P	NSYSPS4100SD	NSYSPF8100	NSYSPS4200SD	NSYSPF8200	NSYPIN128	NSYSDCR400	NSYPFCR	1200	800	400
-	-	NSYSPS3100SD	NSYSPF10100	NSYSPS3200SD	NSYSPF10200	-	NSYSDCR300	NSYPFCR	1200	1000	300
-	-	NSYSPS4100SD	NSYSPF10100	NSYSPS4200SD	NSYSPF10200	-	NSYSDCR400	NSYPFCR	1200	1000	400
-	-	NSYSPS3100SD	NSYSPF12100	NSYSPS3200SD	NSYSPF12200	-	NSYSDCR300	NSYPFCR	1200	1200	300
-	-	NSYSPS4100SD	NSYSPF12100	NSYSPS4200SD	NSYSPF12200	-	NSYSDCR400	NSYPFCR	1200	1200	400
-	-	NSYSPS3100SD	NSYSPF10100	NSYSPS3200SD	NSYSPF10200	-	NSYSDCR300	NSYPFCR	1400	1000	300

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** CRN

Selection Table

Dimensions (mm)			Installation system			
			 PB500156_34_nb	 PB500332_9_nb	 PB500329_14_nb	 PB501821_9_nb
Height	Width	Depth	Post-fixing device	Supporting pole	Canopies	Support bracket for enclosure with anti-tilt kit and reinforcement1400 mm (2)
200	200	150	-	-	-	**NSYCOCNS1400**
200	300	150	-	-	-	**NSYCOCNS1400**
250	200	150	-	-	**NSYTJ2015**	**NSYCOCNS1400**
300	250	150	-	**NSYCOCN80**	-	**NSYCOCNS1400**
300	250	200	-	**NSYCOCN80**	-	**NSYCOCNS1400**
300	300	150	**NSYSFPSC30**	**NSYCOCN80**	**NSYTJ3015**	**NSYCOCNS1400**
300	300	200	**NSYSFPSC30**	**NSYCOCN80**	**NSYTJ3020**	**NSYCOCNS1400**
300	400	200	**NSYSFPSC40**	**NSYCOCN80**	**NSYTJ4020**	**NSYCOCNS1400**
300	450	150	-	-	-	**NSYCOCNS1400**
400	300	150	**NSYSFPSC30**	**NSYCOCN80**	**NSYTJ3015**	**NSYCOCNS1400**
400	300	200	**NSYSFPSC30**	**NSYCOCN80**	**NSYTJ3020**	**NSYCOCNS1400**
400	400	200	**NSYSFPSC40**	**NSYCOCN80**	**NSYTJ4020**	**NSYCOCNS1400**
400	600	250	**NSYSFPSC60**	**NSYCOCN80**	**NSYTJ6025**	**NSYCOCNS1400**
400	600	300	**NSYSFPSC60**	**NSYCOCN80**	**NSYTJ6030**	**NSYCOCNS1400**
500	400	150	**NSYSFPSC40**	**NSYCOCN80**	**NSYTJ4015**	**NSYCOCNS1400**
500	400	200	**NSYSFPSC40**	**NSYCOCN80**	**NSYTJ4020**	**NSYCOCNS1400**
500	400	250	**NSYSFPSC40**	**NSYCOCN80**	**NSYTJ4025**	**NSYCOCNS1400**
500	500	250	**NSYSFPSC50**	**NSYCOCN80**	**NSYTJ5025**	**NSYCOCNS1400**
600	400	150	**NSYSFPSC40**	**NSYCOCN80**	**NSYTJ4015**	**NSYCOCNS1400**
600	400	200	**NSYSFPSC40**	**NSYCOCN80**	**NSYTJ4020**	**NSYCOCNS1400**
600	400	250	**NSYSFPSC40**	**NSYCOCN80**	**NSYTJ4025**	**NSYCOCNS1400**
600	500	150	**NSYSFPSC50**	**NSYCOCN80**	-	**NSYCOCNS1400**
600	500	200	**NSYSFPSC50**	**NSYCOCN80**	**NSYTJ5020**	**NSYCOCNS1400**
600	500	250	**NSYSFPSC50**	**NSYCOCN80**	**NSYTJ5025**	**NSYCOCNS1400**
600	600	200	**NSYSFPSC60**	**NSYCOCN80**	**NSYTJ6020**	**NSYCOCNS1400**
600	600	250	**NSYSFPSC60**	**NSYCOCN80**	**NSYTJ6025**	**NSYCOCNS1400**
600	600	300	**NSYSFPSC60**	**NSYCOCN80**	**NSYTJ6030**	**NSYCOCNS1400**
600	800	300	**NSYSFPSC80**	-	**NSYTJ8030**	**NSYCOCNS1400**
700	500	200	**NSYSFPSC50**	**NSYCOCN80**	**NSYTJ5020**	**NSYCOCNS1400**
700	500	250	**NSYSFPSC50**	**NSYCOCN80**	**NSYTJ5025**	**NSYCOCNS1400**
800	600	200	**NSYSFPSC60**	**NSYCOCN80**	**NSYTJ6020**	**NSYCOCNS1400**
800	600	250	**NSYSFPSC60**	**NSYCOCN80**	**NSYTJ6025**	**NSYCOCNS1400**
800	600	300	**NSYSFPSC60**	**NSYCOCN80**	**NSYTJ6030**	**NSYCOCNS1400**
800	600	400	**NSYSFPSC60**	-	**NSYTJ6040**	-
800	800	200	**NSYSFPSC80**	-	-	**NSYCOCNS1400**
800	800	300	**NSYSFPSC80**	-	**NSYTJ8030**	**NSYCOCNS1400**
800	1000	300	-	-	**NSYTJ10030**	-
800	1200	300	-	-	**NSYTJ12030**	-
1000	600	250	-	**NSYCOCN80**	**NSYTJ6025**	**NSYCOCNS1400**
1000	600	300	-	**NSYCOCN80**	**NSYTJ6030**	**NSYCOCNS1400**
1000	600	400	-	-	**NSYTJ6040**	-
1000	800	250	-	-	**NSYTJ8025**	**NSYCOCNS1400**
1000	800	300	-	-	**NSYTJ8030**	**NSYCOCNS1400**
1000	800	400	-	-	**NSYTJ8040**	-
1000	1000	300	-	-	**NSYTJ10030**	-
1000	1200	300	-	-	**NSYTJ12030**	-
1000	1200	400	-	-	**NSYTJ12040**	-
1200	600	300	-	-	**NSYTJ6030**	-
1200	600	400	-	-	**NSYTJ6040**	-
1200	800	300	-	-	**NSYTJ8030**	-
1200	800	400	-	-	**NSYTJ8040**	-
1200	1000	300	-	-	**NSYTJ10030**	-
1200	1000	400	-	-	**NSYTJ10040**	-
1200	1200	300	-	-	**NSYTJ12030**	-
1200	1200	400	-	-	**NSYTJ12040**	-
1400	1000	300	-	-	**NSYTJ10030**	-

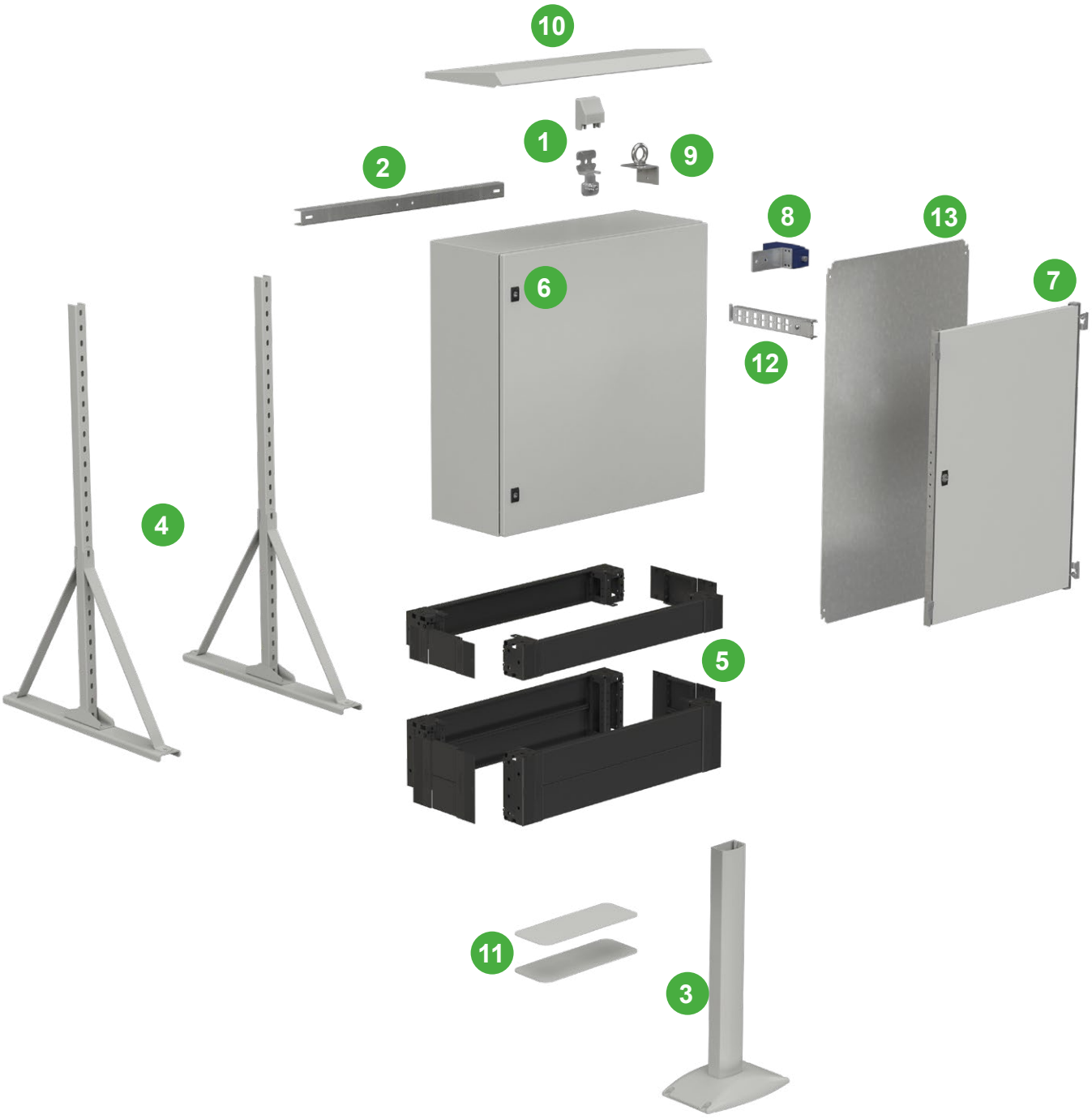
(1) 2 coupling plates and supporting poles are required.
(2) Available in version 1800 mm: Ref. **NSYCOCNS1800**.

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Panel**SeT** CRN

Accessories



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Fixing and Composition Accessories

1



Mounting lugs and covers for fixing brackets

See details p. 522

2



Post fixing device

See details p. 529

3



Support pillar

See details p. 528

4



Support brackets

See details p. 528

5



Plinths

See details p. 532

Door Accessories

6



Inserts, keys, locks and handles

See details p. 579

7



Internal door

See details p. 568

8



Door switch and retainer

See details p. 581

Other Accessories

9



Eyebolts

See details p. 524

10



Canopy

See details p. 525

11



Gland plates: standard and insulated

See details p. 544/545

12



Mounting rail

See details p. 488

13



Mounting plates: plain, microperforated, telequick, bakelite, polyester

See details p. 475

> For more information consult the Accessories chapter **page 472**

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Steel Wall-Mounted Enclosures

Panel**SeT** CRN

Dimensions

Fig. 1

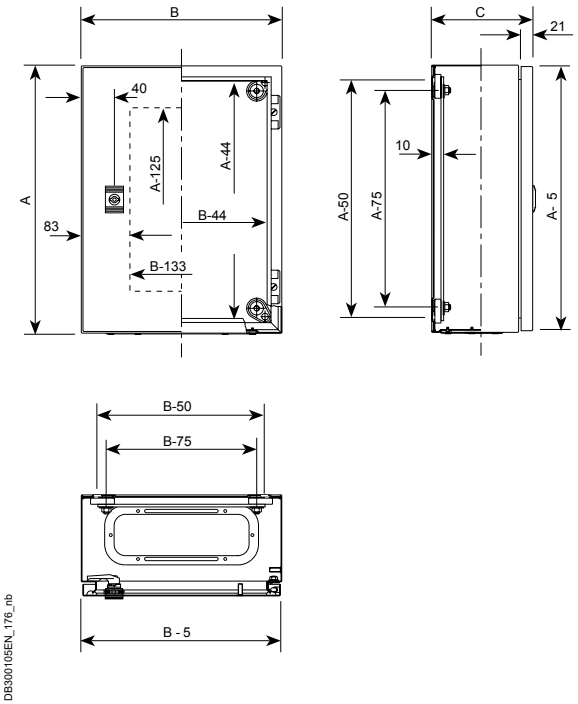
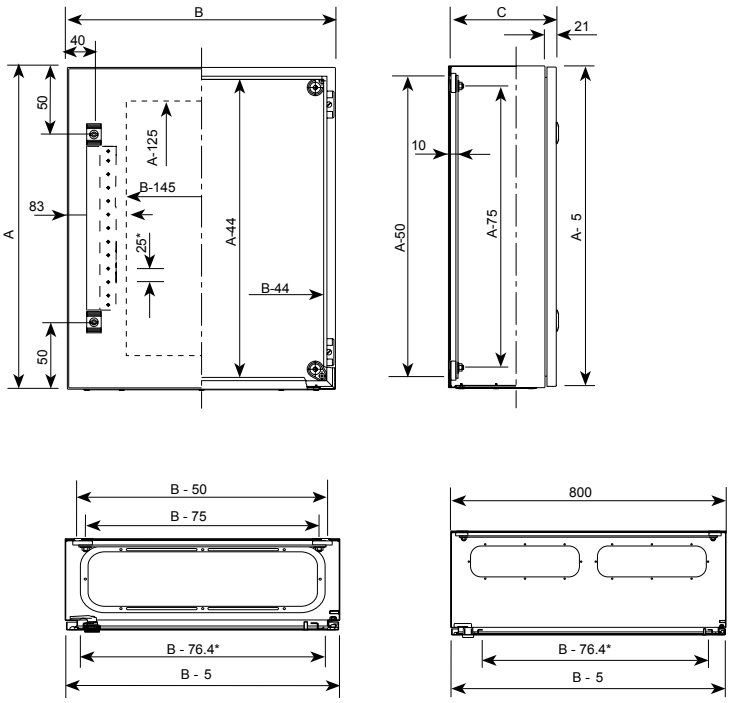
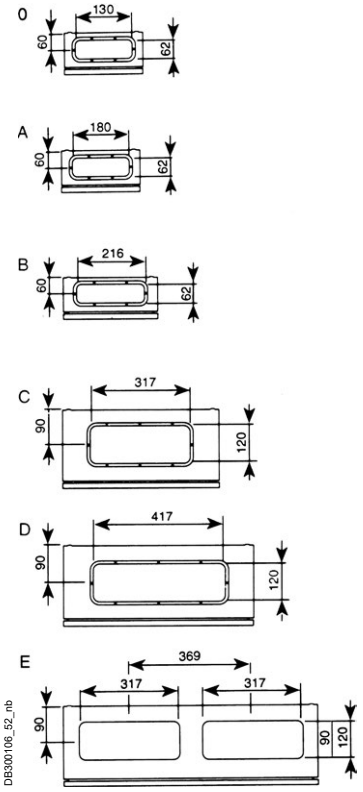


Fig. 2



A: Enclosure height
B: Enclosure width
C: Enclosure depth

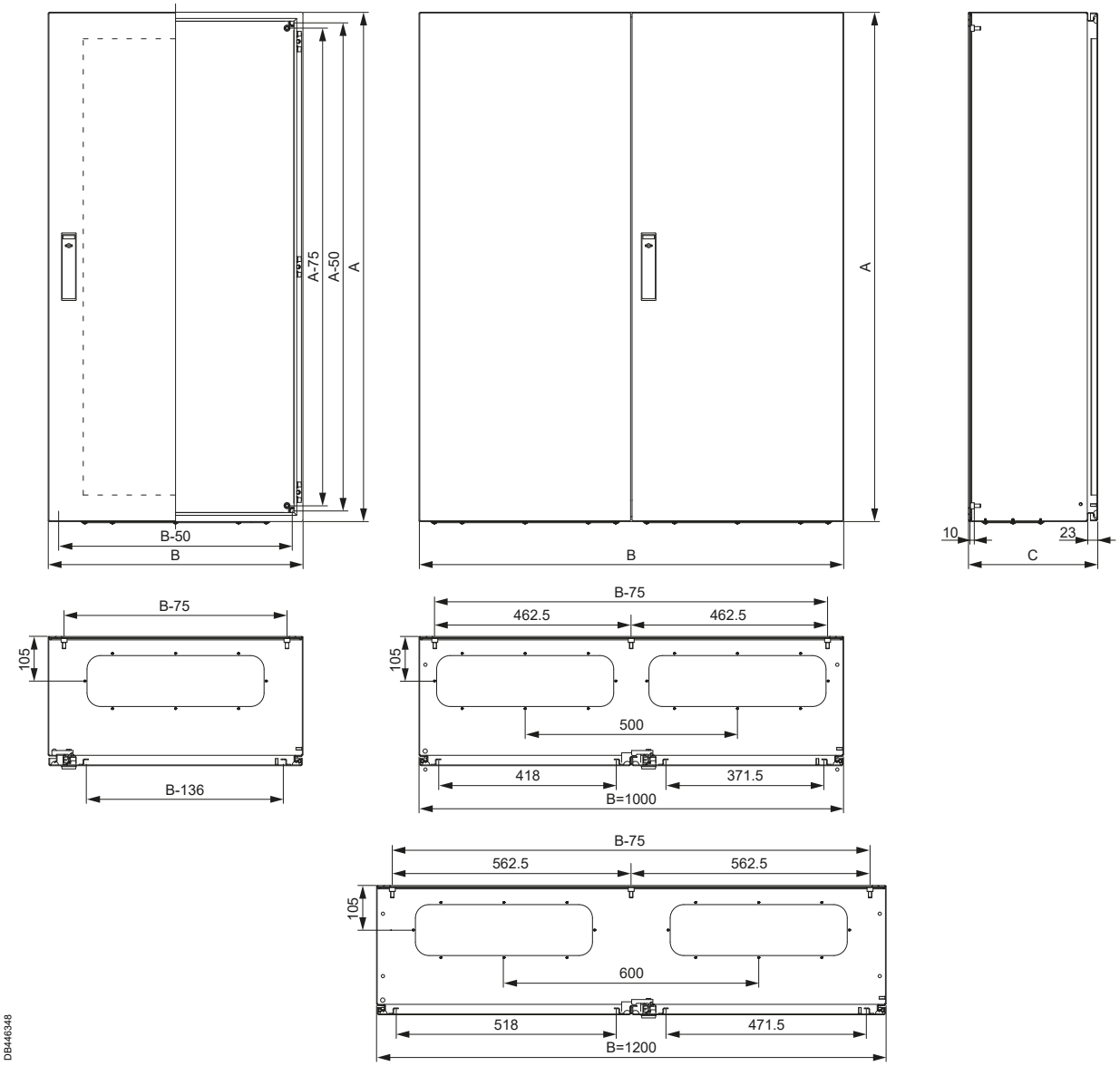
Panel**SeT** CRN Cable Entry Dimensions and Type



None of the glazed-door enclosures have door reinforcement profiles.

Our diagrams and technical instruction sheets can be downloaded from our websites.

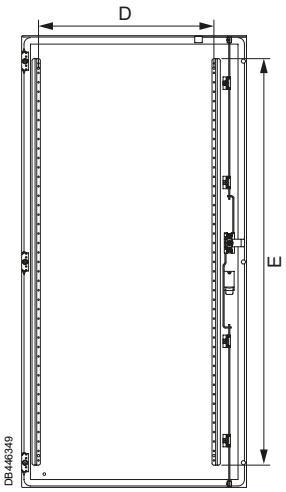
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.



Dimensions of the Door-Reinforcement Profiles, the T Doors Only Include Vertical Profiles

1-door enclosure		Reinforcement profile	
Height (A)	Width (B)	E	D
800	600	519	525
1000	600	519	725
	800	719	725
1200	600	464	1075
	800	664	1075

2-door enclosure		Reinforcement profile			
		Rt. Door		Lft. Door	
Height (A)	Width (B)	E	D	E	D
800	1000	372	675	419	675
	1200	472	675	519	675
1000	1000	372	875	419	875
	1200	472	875	519	875
1200	1000	372	1075	419	1075
	1200	472	1075	519	1075
1400	1000	372	1275	419	1275



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Panel**SeT** S3D

Introduction





The PanelSeT S3D range offers a wide selection of steel wall-mounting enclosures on the market. It is designed for easy equipment setup and maintenance, saving you time on projects. It provides high component security, water and dust tightness, and impact resistance. It includes welded earthing studs on the body and door enhance personal safety.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.



Service Life
- Quality of the welding and the painting



Component Protection
- Water and dust tightness IP66 and impact resistance IK10
- EMC and ATEX application offer



Increased Choice
- Large range of universal dimensions
- Application offer with special dimensions



Easy Maintenance
- Removable hinges
- 1-lock system for heights below 600 mm
- 3-point lock for heights from 600 mm



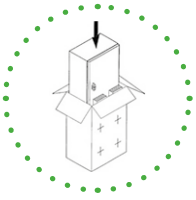
Electrical Safety
- Earthing studs welded to the body and door



Added Value to your Work
- Quality and quantity



Easy Equipping
- 4 or 6 10 mm shouldered welded studs
- Broad range of mounting plates
- Broad range of cable gland plates
- Cable guides welded to the door from the height of 400 mm



Easy Handling
- Reusable packaging made with recycled cardboard
- No sharp edges

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

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Panel**SeT** S3D

Characteristics

Characteristics	PanelSeT S3D
	 PB500199_48_nb
	Three steel enclosure configurations are available: • Enclosure with plain door. • Enclosure with plain door delivered with a galvanized plain mounting plate, not installed. • Enclosure with glazed door, 4 mm-thick Securit® glass.
Personnel protection	• Earth connection: equipped with M6 x 16 earth studs welded in the body and the door for equipotential connection. Earth braid to be ordered separately (see page 589). • The enclosures are equipped from the height of 600 mm with three locking points with linkage, with a single control point, helping prevent the enclosures from being left half-closed. Locks and inserts, page 574.
Material	Steel
Finish	Structured finish, epoxy polyester powder
Color	RAL 7035 gray
Ingress protection rating	IP66 for the single-door enclosures and IP55 for the double-door enclosures, according to IEC 60529
Mechanical protection rating	IK10 for the plain-door enclosures and IK08 for the glazed-door enclosures according to IEC 62262
Standards	• Compliance with enclosure standards IEC 62208 • Compliant with the RoHS and REACH directives
Certifications (see page 610)	• UL (cULus), BVM, DNV. For Atex see page 370 • UL Types 4, 4X and 13 for the single-door enclosures and UL Types 12, 13 for the double-door enclosures and CAN C22.2 No14 on NEMA and UL classification on page 615 **Nuclear decontamination: RAL 7035 gray and AFNOR A550 tests available on demand.** **More information on painting properties on page 616 and 617**
Installation	**Indoor** • Given their strength, metal enclosures are particularly well suited to indoor areas where they may experience impacts • 4 or 6 studs for widths 1000 and 1200 (see page 59 and 60) M8 x 25 collared studs for installing mounting plates and step slides, leaving a space of 10 mm behind them.
Supply	**Body** • Single-piece body (cross-shaped structure). Gutter-shaped front profile with double fold. **Flat rear** • M6 x 16 earthing screws for equipotential connection between the door and the body of the enclosure • Cable gland plate to enable the maximum access surface, delivered with the enclosure. This plate is flush with the body of the enclosure (detail and other options on page 545) • Direct wall-mounted (4 x Ø 10 mm holes) or with the help of fixing lugs installed from the outside (to be ordered separately, see page 522) **Door** • Wall-mounted enclosure supplied with 3-mm double-bar lock as standard • Polyurethane door gasket • M6 x 16 earthing screws for equipotential connection between the door and the body of the enclosure • Easily removable and reversible, with 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges (from the height of 800 mm) • Door opening to 180° with optional hinges (page 580) • For heights from 600 mm, three locking points with linkage, with a single control point. Simple reversal of linkage. Maximum load: 50 kg/m² • A handle is delivered which provides 2 functions: - Operating key - Tool for loosening the stud protection caps. This handle can be solidly attached to the locking system by means of a captive element • Perforated rails on the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm: - 2 vertical rails from the height of 400 mm - 2 vertical rails and 2 horizontal rails from the width of 800 mm

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Steel Wall-Mounted Enclosures

Panel**SeT** S3D

Selection Table

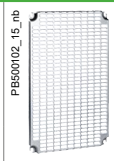
- Ingress protection rating: IP66 for the single-door enclosures and IP55 for the double-door enclosures, according to IEC 60529.
- Rating according UL50E: Types 4, 4X and 13 for single-door enclosures and Types 12 and 13 for double-door enclosures.

Dimensions (mm) (1)						Door			Mounting plates	
						 PB500096_13_nb		 PB500097_13_1_1_nb	 PB500097_13_1_1_nb	 PB500101_16_nb
Height	Width	Depth	Doors	IP	Weight (kg) (2)	Plain without mounting plate	Plain with mounting plate	Glazed without mounting plate	Plain	Microperforated
300	200	150	1	66	3.02	**NSYS3D3215**	**NSYS3D3215P**	-	**NSYMM32**	**NSYMF32**
300	250	150	1	66	3.48	**NSYS3D32515**	**NSYS3D32515P**	**NSYS3D32515T**	**NSYMM3025**	-
300	300	150	1	66	3.90	**NSYS3D3315**	**NSYS3D3315P**	**NSYS3D3315T**	**NSYMM33**	**NSYMF33**
300	300	200	1	66	4.50	**NSYS3D3320**	**NSYS3D3320P**	**NSYS3D3320T**	**NSYMM33**	**NSYMF33**
300	400	150	1	66	4.82	**NSYS3D3415**	**NSYS3D3415P**	**NSYS3D3415T**	**NSYMM43**	**NSYMF43**
300	400	200	1	66	5.60	**NSYS3D3420**	**NSYS3D3420P**	**NSYS3D3420T**	**NSYMM43**	**NSYMF43**
400	300	150	1	66	4.90	**NSYS3D4315**	**NSYS3D4315P**	**NSYS3D4315T**	**NSYMM43**	**NSYMF43**
400	300	200	1	66	5.00	**NSYS3D4320**	**NSYS3D4320P**	**NSYS3D4320T**	**NSYMM43**	**NSYMF43**
400	400	200	1	66	6.50	**NSYS3D4420**	**NSYS3D4420P**	**NSYS3D4420T**	**NSYMM44**	**NSYMF44**
400	600	200	1	66	10.50	**NSYS3D4620**	**NSYS3D4620P**	**NSYS3D4620T**	**NSYMM64**	**NSYMF64**
400	600	250	1	66	12.00	**NSYS3D4625**	**NSYS3D4625P**	**NSYS3D4625T**	**NSYMM64**	**NSYMF64**
500	300	200	1	66	7.50	**NSYS3D5320**	**NSYS3D5320P**	**NSYS3D5320T**	**NSYMM53**	**NSYMF53**
500	400	200	1	66	9.30	**NSYS3D5420**	**NSYS3D5420P**	**NSYS3D5420T**	**NSYMM54**	**NSYMF54**
500	400	250	1	66	10.20	**NSYS3D5425**	**NSYS3D5425P**	**NSYS3D5425T**	**NSYMM54**	**NSYMF54**
500	500	200	1	66	11.18	**NSYS3D5520**	**NSYS3D5520P**	**NSYS3D5520T**	**NSYMM55**	**NSYMF55**
500	500	250	1	66	12.06	**NSYS3D5525**	**NSYS3D5525P**	**NSYS3D5525T**	**NSYMM55**	**NSYMF55**
600	400	200	1	66	11.00	**NSYS3D6420**	**NSYS3D6420P**	**NSYS3D6420T**	**NSYMM64**	**NSYMF64**
600	400	250	1	66	12.00	**NSYS3D6425**	**NSYS3D6425P**	**NSYS3D6425T**	**NSYMM64**	**NSYMF64**
600	500	250	1	66	16.20	**NSYS3D6525**	**NSYS3D6525P**	**NSYS3D6525T**	**NSYMM65**	**NSYMF65**
600	600	200	1	66	14.00	**NSYS3D6620**	**NSYS3D6620P**	**NSYS3D6620T**	**NSYMM66**	**NSYMF66**
600	600	250	1	66	15.00	**NSYS3D6625**	**NSYS3D6625P**	**NSYS3D6625T**	**NSYMM66**	**NSYMF66**
600	600	300	1	66	17.00	**NSYS3D6630**	**NSYS3D6630P**	**NSYS3D6630T**	**NSYMM66**	**NSYMF66**
600	600	400	1	66	19.00	**NSYS3D6640**	**NSYS3D6640P**	**NSYS3D6640T**	**NSYMM66**	**NSYMF66**
600	800	300	1	66	25.50	**NSYS3D6830**	**NSYS3D6830P**	**NSYS3D6830T**	**NSYMM86**	**NSYMF86**
700	500	250	1	66	15.00	**NSYS3D7525**	**NSYS3D7525P**	**NSYS3D7525T**	**NSYMM75**	**NSYMF75**
800	600	200	1	66	21.00	**NSYS3D8620**	**NSYS3D8620P**	**NSYS3D8620T**	**NSYMM86**	**NSYMF86**
800	600	250	1	66	23.00	**NSYS3D8625**	**NSYS3D8625P**	**NSYS3D8625T**	**NSYMM86**	**NSYMF86**
800	600	300	1	66	25.00	**NSYS3D8630**	**NSYS3D8630P**	**NSYS3D8630T**	**NSYMM86**	**NSYMF86**
800	600	400	1	66	29.00	**NSYS3D8640**	**NSYS3D8640P**	**NSYS3D8640T**	**NSYMM86**	**NSYMF86**
800	800	250	1	66	30.00	**NSYS3D8825**	**NSYS3D8825P**	**NSYS3D8825T**	**NSYMM88**	**NSYMF88**
800	800	300	1	66	32.00	**NSYS3D8830**	**NSYS3D8830P**	**NSYS3D8830T**	**NSYMM88**	**NSYMF88**
800	1000	300	1	66	38.00	**NSYS3D81030**	**NSYS3D81030P**	-	**NSYMM108**	**NSYMF108**
800	1000	300	2	55	43.50	**NSYS3D81030D**	**NSYS3D81030DP**	-	**NSYMM108**	**NSYMF108**
800	1200	300	2	55	46.00	**NSYS3D81230D**	**NSYS3D81230DP**	-	**NSYMM128**	**NSYMF128**
1000	600	250	1	66	28.00	**NSYS3D10625**	**NSYS3D10625P**	**NSYS3D10625T**	**NSYMM106**	**NSYMF106**
1000	600	300	1	66	30.60	**NSYS3D10630**	**NSYS3D10630P**	**NSYS3D10630T**	**NSYMM106**	**NSYMF106**
1000	600	400	1	66	33.00	**NSYS3D10640**	**NSYS3D10640P**	**NSYS3D10640T**	**NSYMM106**	**NSYMF106**
1000	800	250	1	66	35.00	**NSYS3D10825**	**NSYS3D10825P**	**NSYS3D10825T**	**NSYMM108**	**NSYMF108**
1000	800	300	1	66	38.00	**NSYS3D10830**	**NSYS3D10830P**	**NSYS3D10830T**	**NSYMM108**	**NSYMF108**
1000	800	400	1	66	42.00	**NSYS3D10840**	**NSYS3D10840P**	**NSYS3D10840T**	**NSYMM108**	**NSYMF108**
1000	1000	300	1	66	46.00	**NSYS3D101030**	**NSYS3D101030P**	**NSYS3D101030T**	**NSYMM1010**	**NSYMF1010**
1000	1000	300	2	55	46.00	**NSYS3D101030D**	**NSYS3D101030DP**	**NSYS3D101030DT**	**NSYMM1010**	**NSYMF1010**
1000	1200	300	2	55	53.00	**NSYS3D101230D**	**NSYS3D101230DP**	-	**NSYMM1210**	**NSYMF1210**
1000	1200	400	2	55	60.00	**NSYS3D101240D**	**NSYS3D101240DP**	-	**NSYMM1210**	**NSYMF1210**
1200	600	300	1	66	37.00	**NSYS3D12630**	**NSYS3D12630P**	**NSYS3D12630T**	**NSYMM126**	**NSYMF126**
1200	600	400	1	66	42.00	**NSYS3D12640**	**NSYS3D12640P**	**NSYS3D12640T**	**NSYMM126**	**NSYMF126**
1200	800	300	1	66	45.00	**NSYS3D12830**	**NSYS3D12830P**	**NSYS3D12830T**	**NSYMM128**	**NSYMF128**
1200	800	400	1	66	49.00	**NSYS3D12840**	**NSYS3D12840P**	**NSYS3D12840T**	**NSYMM128**	**NSYMF128**
1200	1000	300	1	66	53.00	**NSYS3D121030**	**NSYS3D121030P**	**NSYS3D121030T**	**NSYMM1210**	**NSYMF1210**
1200	1000	300	2	55	54.00	**NSYS3D121030D**	**NSYS3D121030DP**	**NSYS3D121030DT**	**NSYMM1210**	**NSYMF1210**
1200	1000	400	2	55	61.00	**NSYS3D121040D**	**NSYS3D121040DP**	-	**NSYMM1210**	**NSYMF1210**
1200	1200	300	2	55	64.00	**NSYS3D121230D**	**NSYS3D121230DP**	-	**NSYMM1212**	2x **NSYMF126** (3)
1200	1200	400	2	55	90.00	**NSYS3D121240D**	**NSYS3D121240DP**	-	**NSYMM1212**	2x **NSYMF126** (3)
1400	1000	300	2	55	80.00	**NSYS3D141030D**	**NSYS3D141030DP**	-	**NSYMM1410**	-

(1) For other dimensions, see our application offer, page 170.
(2) Enclosure without mounting plate.
(3) Order **NSYCRNGSDR** for double mounting of the mounting plates.
(4) When width ≥ 1000 ref. **NSYEMR** is mandatory (see on page 59).

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

- For other dimensions, see our application offer.
- Enclosure without mounting plate.

					Modular mounting plate			Cross-rails			
									Dimensions (mm) (1)		
	Telequick	Bakelite	Module	Modular chassis DLM Steel	Modular chassis DLA Insulated	DIN rail chassis	Type	Door cross-rails	Height	Width	Depth
	NSYMR32	NSYMB32	-	-	-	-	-	-	300	200	150
	NSYMR3025	NSYMB3025	-	-	-	-	-	-	300	250	150
	NSYMR33	-	-	-	-	NSYMD33	B	-	300	300	150
	NSYMR33	-	-	-	-	NSYMD33	B	-	300	300	200
	NSYMR34	NSYMB43	-	-	-	-	-	-	300	400	150
	NSYMR34	NSYMB43	-	-	-	-	-	-	300	400	200
	NSYMR43	NSYMB43	24	NSYDLM24	-	NSYMD43	B	-	400	300	150
	NSYMR43	NSYMB43	24	NSYDLM24	NSYDLA24G	NSYMD43	B	-	400	300	200
	NSYMR44	-	-	-	-	-	-	NSYTFPCRN4	400	400	200
	NSYMR46	NSYMB64	-	-	-	-	-	NSYTFPCRN6	400	600	200
	NSYMR46	NSYMB64	-	-	-	-	-	NSYTFPCRN6	400	600	250
	NSYMR53	-	-	-	-	-	-	-	500	300	200
	NSYMR54	NSYMB54	48	NSYDLM48	NSYDLA48G	NSYMD54	B	NSYTFPCRN4	500	400	200
	NSYMR54	NSYMB54	48	NSYDLM48	-	NSYMD54	B	NSYTFPCRN4	500	400	250
	NSYMR55	-	-	-	-	-	-	NSYTFPCRN5	500	500	200
	NSYMR55	-	-	-	-	-	-	NSYTFPCRN5	500	500	250
	NSYMR64	NSYMB64	48	NSYDLM48P	NSYDLA48PG	NSYMD64	B	NSYTFPCRN4	600	400	200
	NSYMR64	NSYMB64	48	NSYDLM48P	NSYDLA48PG	NSYMD64	B	NSYTFPCRN4	600	400	250
	NSYMR65	NSYMB65	-	-	-	-	-	NSYTFPCRN5	600	500	250
	NSYMR66	-	84	NSYDLM84P	-	NSYMD66	A	NSYTFPCRN6	600	600	200
	NSYMR66	-	84	NSYDLM84P	-	NSYMD66	A	NSYTFPCRN6	600	600	250
	NSYMR66	-	84	NSYDLM84P	-	NSYMD66	A	NSYTFPCRN6	600	600	300
	NSYMR66	-	84	NSYDLM84P	-	NSYMD66	A	NSYTFPCRN6	600	600	400
	NSYMR68	NSYMB86	-	-	-	NSYMD86	A	NSYTFPCRN8	600	800	300
	NSYMR75	NSYMB75	66	NSYDLM66	NSYDLA66G	NSYMD75	B	NSYTFPCRN5	700	500	250
	NSYMR86	NSYMB86	84 (4)	NSYDLM84	NSYDLA84G / NSYDLA112G	NSYMD86	A	NSYTFPCRN6	800	600	200
	NSYMR86	NSYMB86	112 (4)	NSYDLM112	NSYDLA84G / NSYDLA112G	NSYMD86	A	NSYTFPCRN6	800	600	250
	NSYMR86	NSYMB86	112 (4)	NSYDLM112	NSYDLA84G / NSYDLA112G	NSYMD86	A	NSYTFPCRN6	800	600	300
	NSYMR86	NSYMB86	112 (4)	NSYDLM112	NSYDLA84G / NSYDLA112G	NSYMD86	A	NSYTFPCRN6	800	600	400
	NSYMR88	-	-	-	-	-	-	NSYTFPCRN8	800	800	250
	NSYMR88	-	-	-	-	-	-	NSYTFPCRN8	800	800	300
	NSYMR810	NSYMB108	-	-	-	-	-	NSYTFPCRN10	800	1000	300
	NSYMR810	NSYMB108	-	-	-	-	-	-	800	1000	300
	2x NSYMR86 (3)	2x NSYMB86 (3)	-	-	-	2x NSYMD86 (3)	A	-	800	1200	300
	NSYMR106	-	168	NSYDLM168	-	-	-	NSYTFPCRN6	1000	600	250
	NSYMR106	-	168	NSYDLM168	-	-	-	NSYTFPCRN6	1000	600	300
	NSYMR106	-	168	NSYDLM168	-	-	-	NSYTFPCRN6	1000	600	400
	NSYMR108	NSYMB108	234	NSYDLM240	NSYDLA234G	NSYMD108	A	NSYTFPCRN8	1000	800	250
	NSYMR108	NSYMB108	234	NSYDLM240	NSYDLA234G	NSYMD108	A	NSYTFPCRN8	1000	800	300
	NSYMR108	NSYMB108	234	NSYDLM240	NSYDLA234G	NSYMD108	A	NSYTFPCRN8	1000	800	400
	NSYMR1012	-	-	-	-	-	-	NSYTFPCRN10	1000	1000	300
	NSYMR1012	-	-	-	-	-	-	-	1000	1000	300
	NSYMR1012	NSYMB1210	-	-	-	-	-	-	1000	1200	300
	NSYMR1012	NSYMB1210	-	-	-	-	-	-	1000	1200	400
	-	-	-	-	-	-	-	-	1200	600	300
	-	-	-	-	-	-	-	-	1200	600	400
	NSYMR128	-	-	-	-	NSYMD128	A	NSYTFPCRN8	1200	800	300
	NSYMR128	-	-	-	-	NSYMD128	A	NSYTFPCRN8	1200	800	400
	NSYMR1210	NSYMB1210	-	-	-	-	-	NSYTFPCRN10	1200	1000	300
	NSYMR1210	NSYMB1210	-	-	-	-	-	-	1200	1000	300
	NSYMR1210	NSYMB1210	-	-	-	-	-	-	1200	1000	400
	2x NSYMR126 (3)	-	-	-	-	-	-	-	1200	1200	300
	2x NSYMR126 (3)	-	-	-	-	-	-	-	1200	1200	400
	NSYMR1410	-	-	-	-	-	-	-	1400	1000	300

Wall fixing lugs: page 522
Steel: **NSYAEFPFSC**
Stainless-steel: **NSYAEFPFXSC**

Reinforcement for heavy loads: page 523
NSYAEFAHLBSC
Locking accessories: page 573

Door accessories: page 581
Clip-on nuts: page 516
Self-tapping screw: **NSYS13M5HS** / page 516

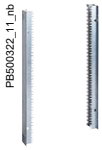
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Steel Wall-Mounted Enclosures

Panel**SeT** S3D

Selection Table

- Ingress protection rating: IP66 for the single-door enclosures and IP55 for the double-door enclosures, according to IEC 60529
- For other dimensions, see our application offer.
- Enclosure without mounting plate.

			Electronics and networks, 19" racks				Cable entry accessories, Cable gland plates				
			 PB500324_11_nb		 PB500323_12_nb		 PB500324_16_nb	PB500326_11_nb	PB500327_11_nb	 NSYTLGME	
Dimensions (mm) (1)			**Fixed**	**Number of units**	**Swing**	**Number of units**	**Entry type**	**Standard steel**	**Aluminum**	**Steel with cut-out for FL membrane (2)**	**FlexiCable (6)**
Height	**Width**	**Depth**									
300	200	150	-	-	-	-	A	**NSYTLA**	**NSYTLAUHD**	-	-
300	250	150	-	-	-	-	A	**NSYTLA**	**NSYTLAUHD**	-	-
300	300	150	-	-	-	-	B	**NSYTLB**	**NSYTLBU**	-	-
300	300	200	-	-	-	-	C	**NSYTLC**	**NSYTLCUHD**	**NSYTLCFL**	**NSYTLCME**
300	400	150	-	-	-	-	B	**NSYTLB**	**NSYTLBU**	-	-
300	400	200	-	-	-	-	D	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	**NSYTLDME**
400	300	150	-	-	-	-	B	**NSYTLB**	**NSYTLBU**	-	-
400	300	200	-	-	-	-	C	**NSYTLC**	**NSYTLCUHD**	**NSYTLCFL**	**NSYTLCME**
400	400	200	-	-	-	-	D	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	**NSYTLDME**
400	600	200	**NSYVDM8UF**	8	-	-	F	**NSYTLF**	**NSYTLFU**	**NSYTLFFL**	**NSYTLFME**
400	600	250	**NSYVDM8UF**	8	-	-	F	**NSYTLF**	**NSYTLFU**	**NSYTLFFL**	**NSYTLFME**
500	300	200	-	-	-	-	C	**NSYTLC**	**NSYTLCUHD**	**NSYTLCFL**	**NSYTLCME**
500	400	200	-	-	-	-	D	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	**NSYTLDME**
500	400	250	-	-	-	-	D	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	**NSYTLDME**
500	500	200	-	-	-	-	E	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	**NSYTLEME**
500	500	250	-	-	-	-	E	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	**NSYTLEME**
600	400	200	-	-	-	-	D	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	**NSYTLDME**
600	400	250	-	-	-	-	D	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	**NSYTLDME**
600	500	250	-	-	-	-	E	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	**NSYTLEME**
600	600	200	**NSYVDM12UF**	12	**NSYVDM11UP**	11	F	**NSYTLF**	**NSYTLFU**	**NSYTLFFL**	**NSYTLFME**
600	600	250	**NSYVDM12UF**	12	**NSYVDM11UP**	11	F	**NSYTLF**	**NSYTLFU**	**NSYTLFFL**	**NSYTLFME**
600	600	300	**NSYVDM12UF**	12	**NSYVDM11UP**	11	G	**NSYTLG**	**NSYTLGU**	**NSYTLG2FL** (5)	**NSYTLGME**
600	600	400	**NSYVDM12UF**	12	**NSYVDM11UP**	11	G	**NSYTLG**	**NSYTLGU**	**NSYTLG2FL** (5)	**NSYTLGME**
600	800	300	-	-	-	-	D (4)	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	2x **NSYTLDME**
700	500	250	-	-	-	-	E	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	**NSYTLEME**
800	600	200	**NSYVDM17UF**	17	**NSYVDM16UP**	16	F	**NSYTLF**	**NSYTLFU**	**NSYTLFFL**	**NSYTLFME**
800	600	250	**NSYVDM17UF**	17	**NSYVDM16UP**	16	F	**NSYTLF**	**NSYTLFU**	**NSYTLFFL**	**NSYTLFME**
800	600	300	**NSYVDM17UF**	17	**NSYVDM16UP**	16	G	**NSYTLG**	**NSYTLGU**	**NSYTLG2FL** (5)	**NSYTLGME**
800	600	400	**NSYVDM17UF**	17	**NSYVDM16UP**	16	G	**NSYTLG**	**NSYTLGU**	**NSYTLG2FL** (5)	**NSYTLGME**
800	800	250	-	-	-	-	D (4)	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	2x **NSYTLDME**
800	800	300	-	-	-	-	D (4)	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	2x **NSYTLDME**
800	1000	300	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLDME**
800	1000	300	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLDME**
800	1200	300	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLDME**
1000	600	250	**NSYVDM21UF**	21	**NSYVDM20UP**	20	F	**NSYTLF**	**NSYTLFU**	**NSYTLFFL**	**NSYTLFME**
1000	600	300	**NSYVDM21UF**	21	**NSYVDM20UP**	20	G	**NSYTLG**	**NSYTLGU**	**NSYTLG2FL** (5)	**NSYTLGME**
1000	600	400	**NSYVDM21UF**	21	**NSYVDM20UP**	20	G	**NSYTLG**	**NSYTLGU**	**NSYTLG2FL** (5)	**NSYTLGME**
1000	800	250	-	-	**NSYVDM20U8P**	20	D (4)	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	2x **NSYTLDME**
1000	800	300	-	-	**NSYVDM20U8P**	20	D (4)	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	2x **NSYTLDME**
1000	800	400	-	-	**NSYVDM20U8P**	20	D (4)	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	2x **NSYTLDME**
1000	1000	300	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLEME**
1000	1000	300	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLEME**
1000	1200	300	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLEME**
1000	1200	400	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLEME**
1200	600	300	-	-	-	-	G	**NSYTLG**	**NSYTLGU**	**NSYTLG2FL** (5)	**NSYTLGME**
1200	600	400	-	-	-	-	G	**NSYTLG**	**NSYTLGU**	**NSYTLG2FL** (5)	**NSYTLGME**
1200	800	300	-	-	**NSYVDM25U8P**	25	D (4)	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	2x **NSYTLDME**
1200	800	400	-	-	**NSYVDM25U8P**	25	D (4)	**NSYTLD**	**NSYTLDUHD**	**NSYTLDFL**	2x **NSYTLDME**
1200	1000	300	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLEME**
1200	1000	300	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLEME**
1200	1000	400	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLEME**
1200	1200	300	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLEME**
1200	1200	400	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLEME**
1400	1000	300	-	-	-	-	E (4)	**NSYTLE**	**NSYTLEUHD**	**NSYTLEFL**	2x **NSYTLEME**

(1) For other dimensions, see our application offer, page 170.
(2) FL13 for entry type A and B FL21 for all other entries.
(3) To adjust the depth of the internal door, please order the step slides.
(4) 2 plates.
(5) Exists with 1 cut-out **NSYTLGFL**.
(6) Cable entry FlexiCable IP55.

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	Composition accessories					Plinths						
	 PB500328_12_nb	 PB500111_14_nb	 NSYTJ2015	 PB500156_34_nb	 NSYAEFPFS3DW20	 NSYSPF6100_nb		 NSYSPF6200_nb				
	Internal door (3)	Step slides	Canopy	Fixing on post	Full width wall fixing lugs	Single plinths front plate (9)	Single plinths side plate (9)	Single plinths front plate (7) (9)	Single plinths side plate (7) (9)	Dimensions (mm) (1) Height	Width	Depth
	-	-	NSYTJ2015	-	-	-	-	-	-	300	200	150
	-	-	NSYTJ2515	-	-	-	-	-	-	300	250	150
	-	-	NSYTJ3015	NSYSFPSC30	-	-	-	-	-	300	300	150
	-	NSYSDCR200	NSYTJ3020	NSYSFPSC30	-	-	-	-	-	300	300	200
	-	-	NSYTJ4015	NSYSFPSC40	NSYAEFPFS3DW40	-	-	-	-	300	400	150
	-	NSYSDCR200	NSYTJ4020	NSYSFPSC40	NSYAEFPFS3DW40	-	-	-	-	300	400	200
	NSYPIN43	-	NSYTJ3015	NSYSFPSC30	-	-	-	-	-	400	300	150
	NSYPIN43	NSYSDCR200	NSYTJ3020	NSYSFPSC30	-	-	-	-	-	400	300	200
	-	NSYSDCR200	NSYTJ4020	NSYSFPSC40	NSYAEFPFS3DW40	-	-	-	-	400	400	200
	-	NSYSDCR200	NSYTJ6020	NSYSFPSC60	NSYAEFPFS3DW60	-	-	-	-	400	600	200
	-	NSYSDCR250	NSYTJ6025	NSYSFPSC60	NSYAEFPFS3DW60	-	-	-	-	400	600	250
	-	NSYSDCR200	NSYTJ3020	NSYSFPSC30	-	-	-	-	-	500	300	200
	NSYPIN54	NSYSDCR200	NSYTJ4020	NSYSFPSC40	NSYAEFPFS3DW40	-	-	-	-	500	400	200
	NSYPIN54	NSYSDCR250	NSYTJ4025	NSYSFPSC40	NSYAEFPFS3DW40	-	-	-	-	500	400	250
	-	NSYSDCR200	NSYTJ5020	NSYSFPSC50	-	-	-	-	-	500	500	200
	-	NSYSDCR250	NSYTJ5025	NSYSFPSC50	-	-	-	-	-	500	500	250
	NSYPIN64	NSYSDCR200	NSYTJ4020	NSYSFPSC40	NSYAEFPFS3DW40	-	-	-	-	600	400	200
	NSYPIN64	NSYSDCR250	NSYTJ4025	NSYSFPSC40	NSYAEFPFS3DW40	-	-	-	-	600	400	250
	-	NSYSDCR250	NSYTJ5025	NSYSFPSC50	-	-	-	-	-	600	500	250
	-	NSYSDCR200	NSYTJ6020	NSYSFPSC60	NSYAEFPFS3DW60	-	-	-	-	600	600	200
	-	NSYSDCR250	NSYTJ6025	NSYSFPSC60	NSYAEFPFS3DW60	-	-	-	-	600	600	250
	-	NSYSDCR300	NSYTJ6030	NSYSFPSC60	NSYAEFPFS3DW60	NSYSPF6100	NSYSPS3100SD	NSYSPF6200	NSYSPS3200SD	600	600	300
	-	NSYSDCR400	NSYTJ6040	NSYSFPSC60	NSYAEFPFS3DW60	NSYSPF6100	NSYSPS4100SD	NSYSPF6200	NSYSPS4200SD	600	600	400
	-	NSYSDCR300	NSYTJ8030	NSYSFPSC80	NSYAEFPFS3DW80	NSYSPF8100	NSYSPS3100SD	NSYSPF8200	NSYSPS3200SD	600	800	300
	NSYPIN75	NSYSDCR250	NSYTJ5025	NSYSFPSC50	-	-	-	-	-	700	500	250
	NSYPIN86	NSYSDCR200	NSYTJ6020	NSYSFPSC60	NSYAEFPFS3DW60	-	-	-	-	800	600	200
	NSYPIN86	NSYSDCR250	NSYTJ6025	NSYSFPSC60	NSYAEFPFS3DW60	-	-	-	-	800	600	250
	NSYPIN86	NSYSDCR300	NSYTJ6030	NSYSFPSC60	NSYAEFPFS3DW60	NSYSPF6100	NSYSPS3100SD	NSYSPF6200	NSYSPS3200SD	800	600	300
	NSYPIN86	NSYSDCR400	NSYTJ6040	NSYSFPSC60	NSYAEFPFS3DW60	NSYSPF6100	NSYSPS4100SD	NSYSPF6200	NSYSPS4200SD	800	600	400
	-	NSYSDCR250	NSYTJ8025	NSYSFPSC80	NSYAEFPFS3DW80	-	-	-	-	800	800	250
	-	NSYSDCR300	NSYTJ8030	NSYSFPSC80	NSYAEFPFS3DW80	NSYSPF8100	NSYSPS3100SD	NSYSPF8200	NSYSPS3200SD	800	800	300
	-	NSYSDCR300	NSYTJ10030	-	NSYAEFPFS3DW100	NSYSPF10100	NSYSPS3100SD	NSYSPF10200	NSYSPS3200SD	800	1000	300
	-	NSYSDCR300	NSYTJ10030	-	NSYAEFPFS3DW100	NSYSPF10100	NSYSPS3100SD	NSYSPF10200	NSYSPS3200SD	800	1000	300
	-	NSYSDCR300 (8)	NSYTJ12030	-	-	-	-	-	-	800	1200	300
	NSYPIN106	NSYSDCR250	NSYTJ6025	-	NSYAEFPFS3DW60	-	-	-	-	1000	600	250
	NSYPIN106	NSYSDCR300	NSYTJ6030	-	NSYAEFPFS3DW60	NSYSPF6100	NSYSPS3100SD	NSYSPF6200	NSYSPS3200SD	1000	600	300
	NSYPIN106	NSYSDCR400	NSYTJ6040	-	NSYAEFPFS3DW60	NSYSPF6100	NSYSPS4100SD	NSYSPF6200	NSYSPS4200SD	1000	600	400
	NSYPIN108	NSYSDCR250	NSYTJ8025	-	NSYAEFPFS3DW80	-	-	-	-	1000	800	250
	NSYPIN108	NSYSDCR300	NSYTJ8030	-	NSYAEFPFS3DW80	NSYSPF8100	NSYSPS3100SD	NSYSPF8200	NSYSPS3200SD	1000	800	300
	NSYPIN108	NSYSDCR400	NSYTJ8040	-	NSYAEFPFS3DW80	NSYSPF8100	NSYSPS4100SD	NSYSPF8200	NSYSPS4200SD	1000	800	400
	-	NSYSDCR300	NSYTJ10030	-	NSYAEFPFS3DW100	NSYSPF10100	NSYSPS3100SD	NSYSPF10200	NSYSPS3200SD	1000	1000	300
	-	NSYSDCR300	NSYTJ10030	-	NSYAEFPFS3DW100	NSYSPF10100	NSYSPS3100SD	NSYSPF10200	NSYSPS3200SD	1000	1000	300
	-	NSYSDCR300 (8)	NSYTJ12030	-	-	NSYSPF12100	NSYSPS3100SD	NSYSPF12200	NSYSPS3200SD	1000	1200	300
	-	NSYSDCR400 (8)	NSYTJ12040	-	-	NSYSPF12100	NSYSPS4100SD	NSYSPF12200	NSYSPS4200SD	1000	1200	400
	NSYPIN126	NSYSDCR300	NSYTJ6030	-	NSYAEFPFS3DW60	NSYSPF6100	NSYSPS3100SD	NSYSPF6200	NSYSPS3200SD	1200	600	300
	NSYPIN126	NSYSDCR400	NSYTJ6040	-	NSYAEFPFS3DW60	NSYSPF6100	NSYSPS4100SD	NSYSPF6200	NSYSPS4200SD	1200	600	400
	NSYPIN128	NSYSDCR300	NSYTJ8030	-	NSYAEFPFS3DW80	NSYSPF8100	NSYSPS3100SD	NSYSPF8200	NSYSPS3200SD	1200	800	300
	NSYPIN128	NSYSDCR400	NSYTJ8040	-	NSYAEFPFS3DW80	NSYSPF8100	NSYSPS4100SD	NSYSPF8200	NSYSPS4200SD	1200	800	400
	-	NSYSDCR300	NSYTJ10030	-	NSYAEFPFS3DW100	NSYSPF10100	NSYSPS3100SD	NSYSPF10200	NSYSPS3200SD	1200	1000	300
	-	NSYSDCR300	NSYTJ10030	-	NSYAEFPFS3DW100	NSYSPF10100	NSYSPS3100SD	NSYSPF10200	NSYSPS3200SD	1200	1000	300
	-	NSYSDCR400	NSYTJ10040	-	NSYAEFPFS3DW100	NSYSPF10100	NSYSPS4100SD	NSYSPF10200	NSYSPS4200SD	1200	1000	400
	-	NSYSDCR300 (8)	NSYTJ12030	-	-	NSYSPF12100	NSYSPS3100SD	NSYSPF12200	NSYSPS3200SD	1200	1200	300
	-	NSYSDCR400 (8)	NSYTJ12040	-	-	NSYSPF12100	NSYSPS4100SD	NSYSPF12200	NSYSPS4200SD	1200	1200	400
	-	NSYSDCR300	NSYTJ10030	-	NSYAEFPFS3DW100	NSYSPF10100	NSYSPS3100SD	NSYSPF10200	NSYSPS3200SD	1400	1000	300

(7) Also available in ventilated version with cable gland for widths of 600 and 800, see page 531.

(8) For the double mounting plates.

(9) To install the plinth to a wall-mounted enclosure, order ref. **NSYAPFWM**.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel Wall-Mounted Enclosures

Panel**SeT** S3D

Selection Table

Dimensions (mm)			Composition accessories		
			 PB500331_15_nb	 PB500332_9_nb	 PB501821_9_nb
Height	Width	Depth	Support pillar adaption plate	Support pillar	Support bracket for enclosure with anti-tilt kit and reinforcement 1400 mm (1)
300	200	150	-	-	**NSYCOCNS1400**
300	250	150	-	-	**NSYCOCNS1400**
300	300	150	-	**NSYCOCN80**	**NSYCOCNS1400**
300	300	200	-	**NSYCOCN80**	**NSYCOCNS1400**
300	400	150	-	**NSYCOCN80**	**NSYCOCNS1400**
300	400	200	**NSYAEFP42S3D**	**NSYCOCN80**	**NSYCOCNS1400**
400	300	150	-	**NSYCOCN80**	**NSYCOCNS1400**
400	300	200	-	**NSYCOCN80**	**NSYCOCNS1400**
400	400	200	**NSYAEFP42S3D**	**NSYCOCN80**	**NSYCOCNS1400**
400	600	200	-	-	**NSYCOCNS1400**
400	600	250	-	-	**NSYCOCNS1400**
500	300	200	-	**NSYCOCN80**	**NSYCOCNS1400**
500	400	200	**NSYAEFP42S3D**	**NSYCOCN80**	**NSYCOCNS1400**
500	400	250	**NSYAEFP42S3D**	**NSYCOCN80**	**NSYCOCNS1400**
500	500	200	-	-	**NSYCOCNS1400**
500	500	250	-	-	**NSYCOCNS1400**
600	400	200	**NSYAEFP42S3D**	**NSYCOCN80**	**NSYCOCNS1400**
600	400	250	**NSYAEFP42S3D**	**NSYCOCN80**	**NSYCOCNS1400**
600	500	250	-	-	**NSYCOCNS1400**
600	600	200	-	-	**NSYCOCNS1400**
600	600	250	-	-	**NSYCOCNS1400**
600	600	300	-	-	**NSYCOCNS1400**
600	600	400	-	-	**NSYCOCNS1400**
600	800	300	-	-	**NSYCOCNS1400**
700	500	250	-	-	**NSYCOCNS1400**
800	600	200	-	-	**NSYCOCNS1400**
800	600	250	-	-	**NSYCOCNS1400**
800	600	300	-	-	**NSYCOCNS1400**
800	600	400	-	-	**NSYCOCNS1400**
800	800	250	-	-	**NSYCOCNS1400**
800	800	300	-	-	**NSYCOCNS1400**
800	1000	300	-	-	**NSYCOCNS1400**
800	1000	300	-	-	**NSYCOCNS1400**
800	1200	300	-	-	**NSYCOCNS1400**
1000	600	250	-	-	**NSYCOCNS1400**
1000	600	300	-	-	**NSYCOCNS1400**
1000	600	400	-	-	**NSYCOCNS1400**
1000	800	250	-	-	**NSYCOCNS1400**
1000	800	300	-	-	**NSYCOCNS1400**

(1) Available in version 1800 mm: ref. **NSYCOCNS1800**.

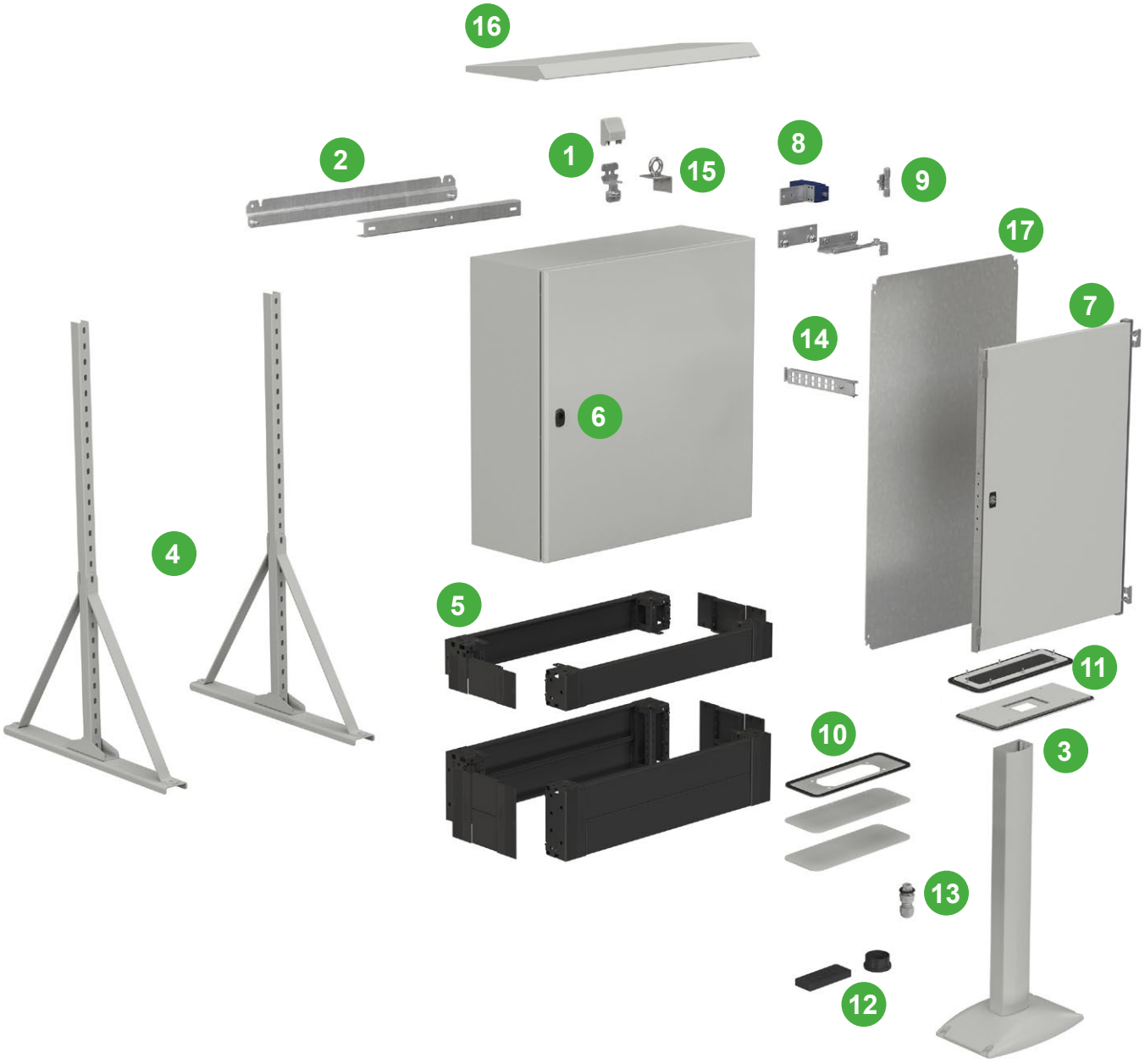
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel Wall-Mounted Enclosures

Panel**SeT** S3D

Accessories



Fixing and Composition Accessories

1



Mounting lugs and covers for fixing brackets

See details p. 522

2



Full width fixing lugs and post fixing device

See details p. 523 and 529

3



Support pillar and adaptation plate

See details p. 528

4



Support brackets

See details p. 528

5



Plinths

See details p. 532

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Door Accessories

6



Inserts, keys, locks and handles

See details p. 574

7



Internal door

See details p. 568

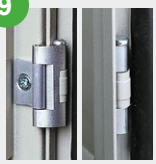
8



Door switch and retainer

See details p. 581

9



Door hinges

See details p. 580

Cabling Accessories

10



Cable gland plates: standard, aluminum and cut-out

See details p. 544

11



Flexicable entries

See details p. 552

12



Multi cable entries; membranes, circular, rectangle, quick

See details p. 552

13



Cable glands

See details p. 558

Other Accessories

14



Mounting rail

See details p. 488

15



Eyebolts

See details p. 524

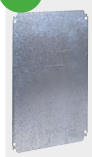
16



Canopy

See details p. 525

17



Mounting plates: plain, microperforated, telequick, bakelite, polyester

See details p. 475

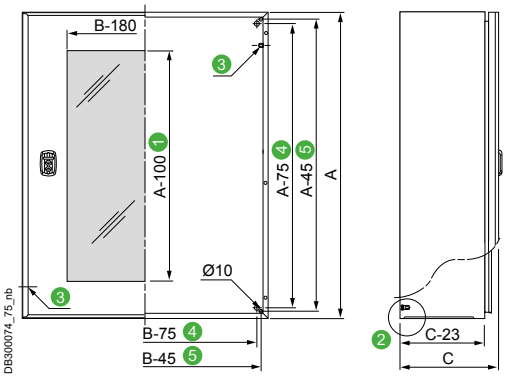
> For more information consult the Accessories chapter **page 472**

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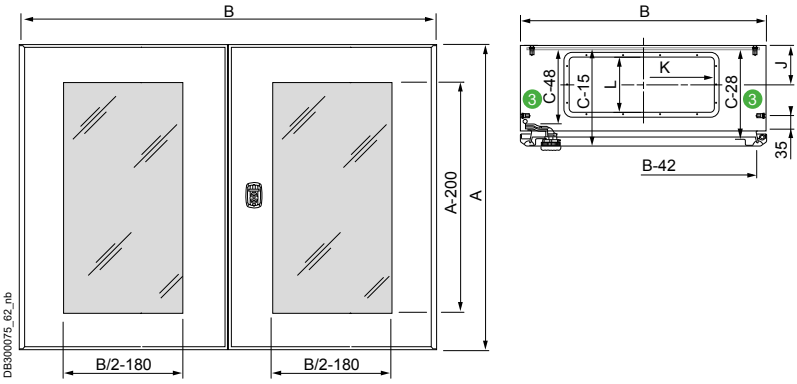
PanelSeT S3D

Dimensions

Single-Door Enclosure

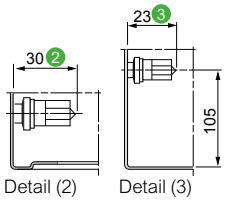


Double-Door Enclosure



A: Enclosure height
B: Enclosure width
C: Enclosure depth

1. A-200 from the height of 800 mm.
2. 4 or 6 (widths 1000 - 1200 mm) M8 x 25 mm backstuds.
3. 2 M6 x 17.5 mm earthing studs
4. Stud center-to-center distance.
5. Center-to-center distance of the holes for direct fixing.



Detail (2) Detail (3)

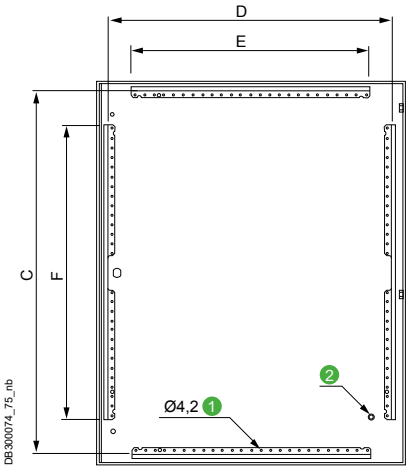
Comment:
The DXF diagrams can be downloaded from our websites.

Enclosure (mm)		Cable gland plate						
Width	Depth	Dim. (mm)	Type	No.	J	K	L	References
200 - 250	150 - 250	140 x 80	A	1	57	115	55	**NSYTLA**
300 - 400	150	245 x 80	B	1	57	220	55	**NSYTLB**
300	200	245 x 130	C	1	80	220	105	**NSYTLC**
400	200 - 250	345 x 130	D	1	80	320	105	**NSYTLD**
500	200 - 250	445 x 130	E	1	80	420	105	**NSYTLE**
600	200 - 250	545 x 130	F	1	80	520	105	**NSYTLF**
600	300 - 400	495 x 220	G	1	126*	470	195	**NSYTLG**
800	250 - 300 - 400	345 x 130	D	2	95**	320	105	2 x **NSYTLD**
1000 - 1200	300 - 400	445 x 130	E	2	95	420	105	2 x **NSYTLE**

* Except enclosure 1000 x 600 x 400 mm, J = 140 mm.
** Except enclosure 600 x 800 x 300 mm, J = 80 mm.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Perforated Rails on Plain Door*



1 Perforations with 25 mm spacing
2 1 M6 x 17.5 mm earthing stud.

* The glazed doors are equipped with a vertical cable guide on the hinge side.

Enclosure** (mm)		Perforated rails on the door (mm)				Perforated rails on the double-door (mm)				Perforated rails on the internal door (mm)			
Height	Width	Vertical		Horizontal		Vertical		Horizontal		Vertical		Horizontal	
		F	D	E	C	F	D	E	C	F	D	E	C
400	300	320	237	-	-	-	-	-	-	-	-	-	-
400	400	320	337	-	-	-	-	-	-	-	-	-	-
400	600	320	537	-	-	-	-	-	-	-	-	-	-
500	300	370	237	-	-	-	-	-	-	-	-	-	-
500	400	370	337	-	-	-	-	-	-	-	-	-	-
500	500	370	437	-	-	-	-	-	-	-	-	-	-
600	400	370	337	-	-	-	-	-	-	-	-	-	-
600	500	370	437	-	-	-	-	-	-	-	-	-	-
600	600	370	537	-	-	-	-	-	-	-	-	-	-
600	800	370	737	-	-	-	-	-	-	-	-	-	-
700	500	470	437	-	-	-	-	-	-	-	-	-	-
800	600	570	537	-	-	-	-	-	-	-	-	-	-
800	800	570	737	620	749	-	-	-	-	-	-	-	-
800	1000	570	937	820	749	570	437	320	749	620	437	320	749
800	1200	-	-	-	-	570	537	420	749	620	537	420	749
1000	600	770	537	420	949	-	-	-	-	-	-	-	-
1000	800	770	737	620	949	-	-	-	-	-	-	-	-
1000	1000	770	937	820	949	770	437	320	949	820	437	320	949
1000	1200	-	-	-	-	770	537	420	949	820	537	420	949
1200	600	970	537	420	1149	-	-	-	-	-	-	-	-
1200	800	970	737	620	1149	-	-	-	-	-	-	-	-
1200	1000	970	937	820	1149	970	437	320	1149	1020	437	320	1149
1200	1200	-	-	-	-	970	537	420	1149	1020	537	420	1149
1400	1000	-	-	-	-	970	437	320	1349	1020	437	320	1349

** The doors of enclosures with dimensions of less than 800 x 600 mm do not have horizontal cable guides.

Download the configuration sheets and DXF diagrams from www.se.com
Send them back to your local Schneider Electric office.
Take advantage of a shorter delivery time!

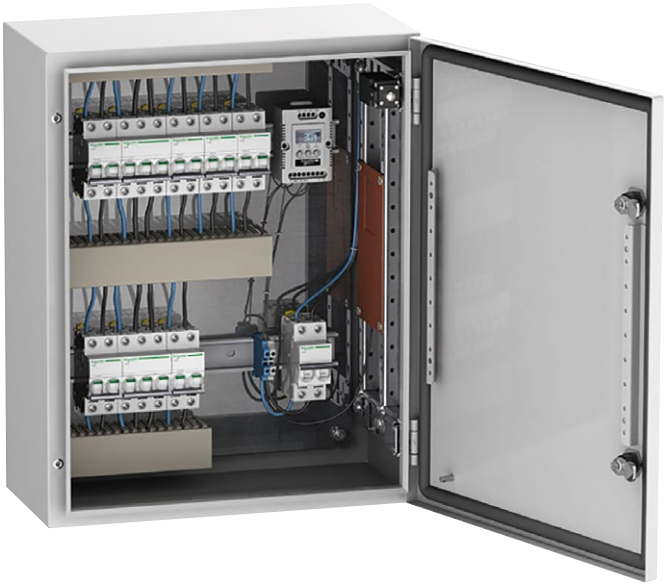
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Panel**SeT** S3D

Mounting Options

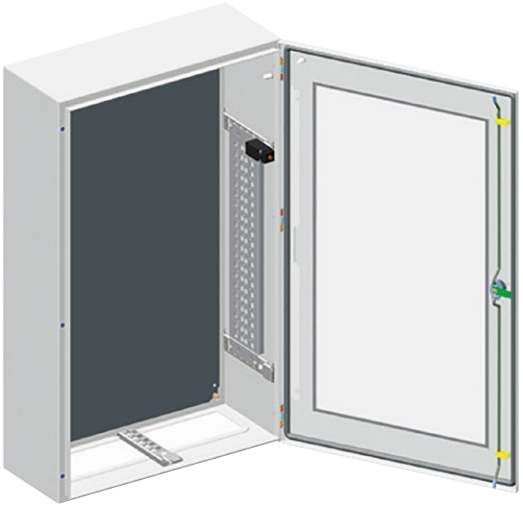
Mounting Rail

PB503346_51_nb



Quick-Fixing Cross-Rails

PB503372_33_nb



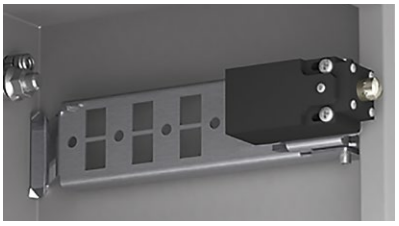
Ease of Installation

PB503347_30_nb



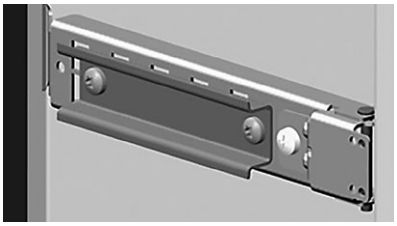
Door Switch Mounting Option

PB503370_38_nb



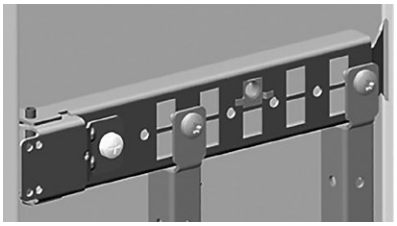
With Din Rail

PB503348_30_nb



With Light Cross-Rails and Cage Nut

PB503371_40_nb

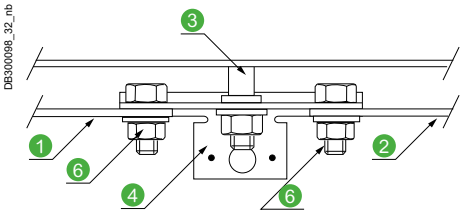


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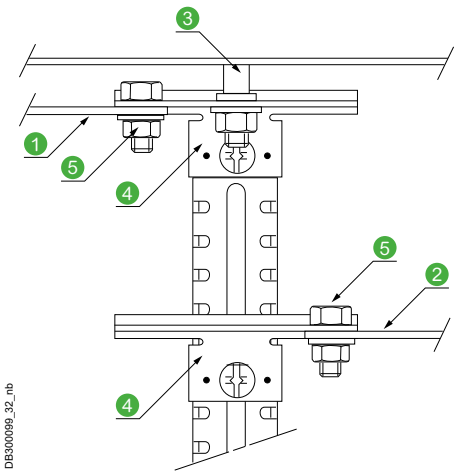
Installation of 2 Mounting Plates in the Enclosures with Width of 1000 or 1200 mm and Depth of 300 or 400 mm

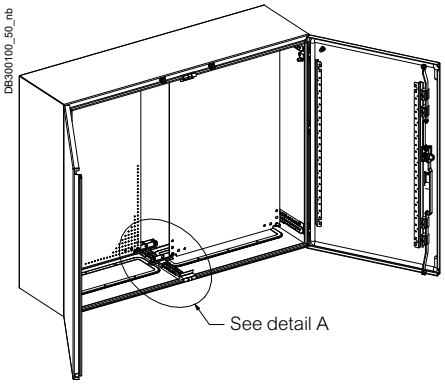


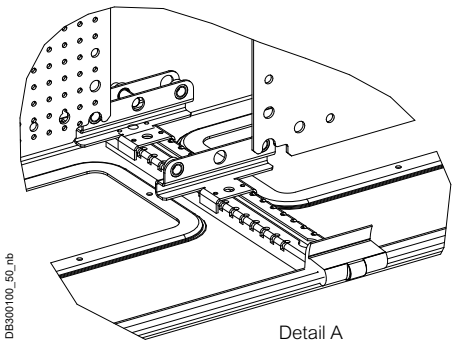
1 On the 6 backstuds.



2 Two offset mounting plates with depthwise adjustment



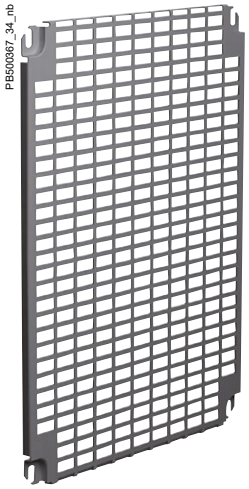


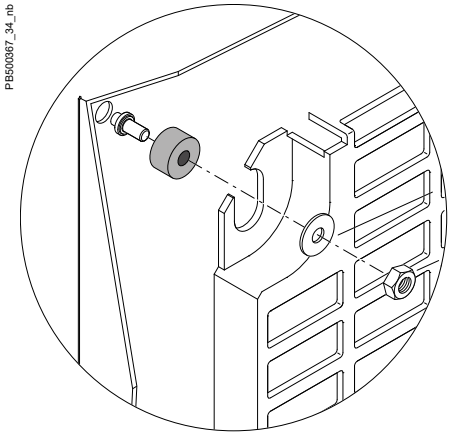


1 Left mounting plate
2 Right mounting plate
3 Central backstud
4 Bracket ref. **NSYCRNGSDR** with 2 M8 x 20 mm screws
5 M8 x 20 mm screw

Installation of Telequick Mounting Plates

Spacers for raising the mounting plate in the enclosures equipped with 6 studs.





Reference **NSYEMR**

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Panel**SeT** S3D

Mounting Options

Acceptable Loads on the Mounting Plates, Bases and Doors



PB500368_54_nb

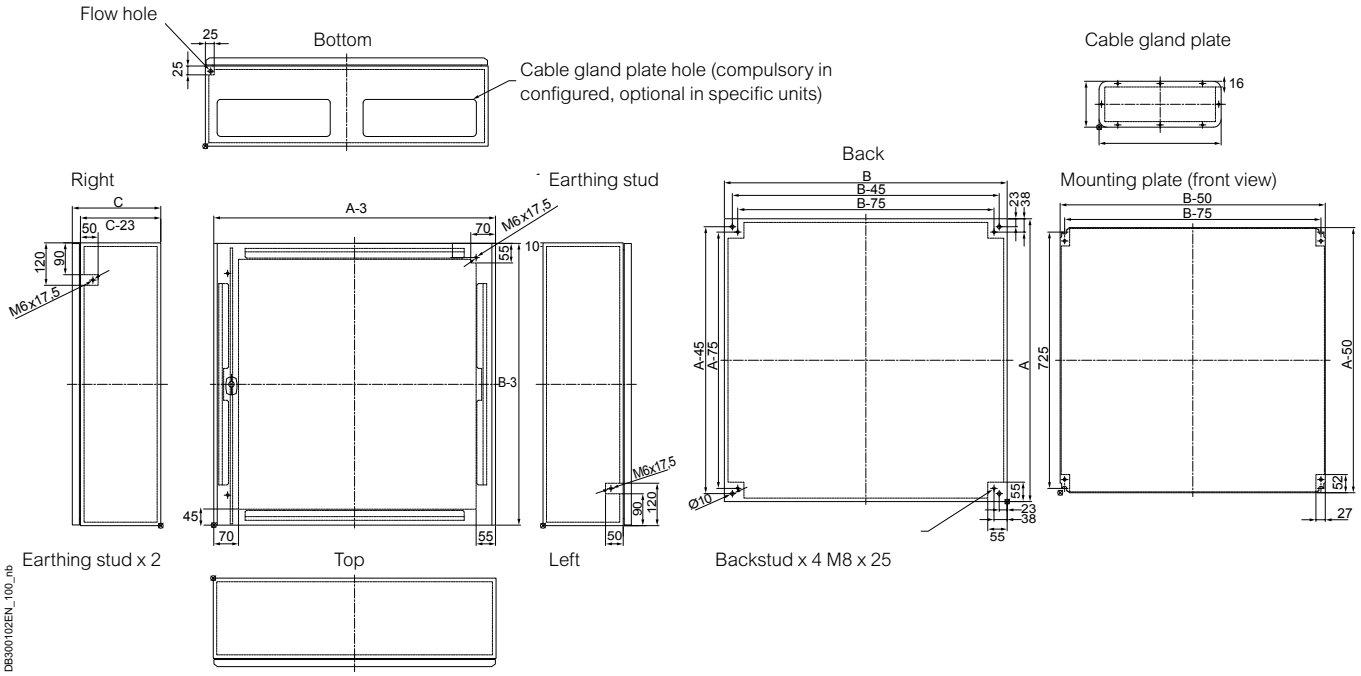
Panel**SeT** 3D wall-mounted enclosures

Acceptable loads (kg)					
On plain mounting plates	On base	On door *	On vertical lug	On horizontal lug	References
60	135	50	350	190	**NSYS3D3215** to **NSYS3D5320**
90	135	50	350	190	**NSYS3D5420** to **NSYS3D6425**
135	135	50	350	190	**NSYS3D6620** to **NSYS3D8630**
150	135	50	350	190	**NSYS3D10625** to **NSYS3D10830**
180	135	50	350	190	**NSYS3D101030D** to **NSYS3D141030D**

* On a sheet door with a thickness of 20/10e mm: 60 kg of maximum acceptable load (please consult us).

Areas without Cut-Outs

Spacers for raising the mounting plate in the enclosures equipped with 6 studs.



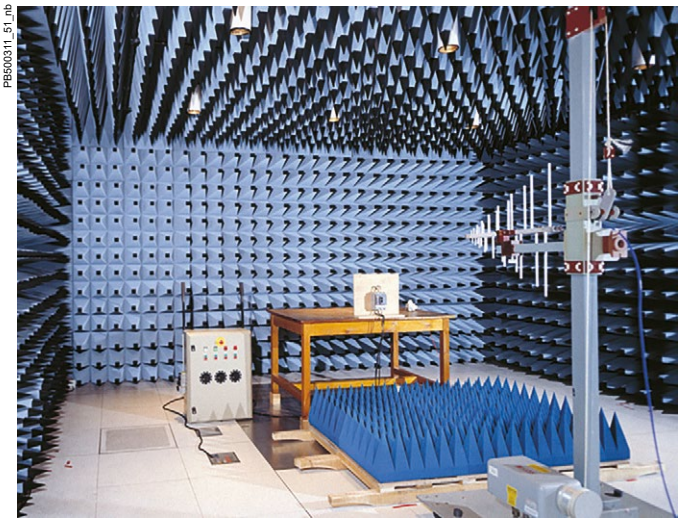
DB300102EN_100_nb

- For 800, 1000 and 1200 mm widths, 2 cable gland plates: See previous page.
- Vertical cable guides from 400 mm height.
- Horizontal cable guides from 800 mm width.
- Download our DXF diagrams from our websites.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

EMC Protection

PB500311_51_nb



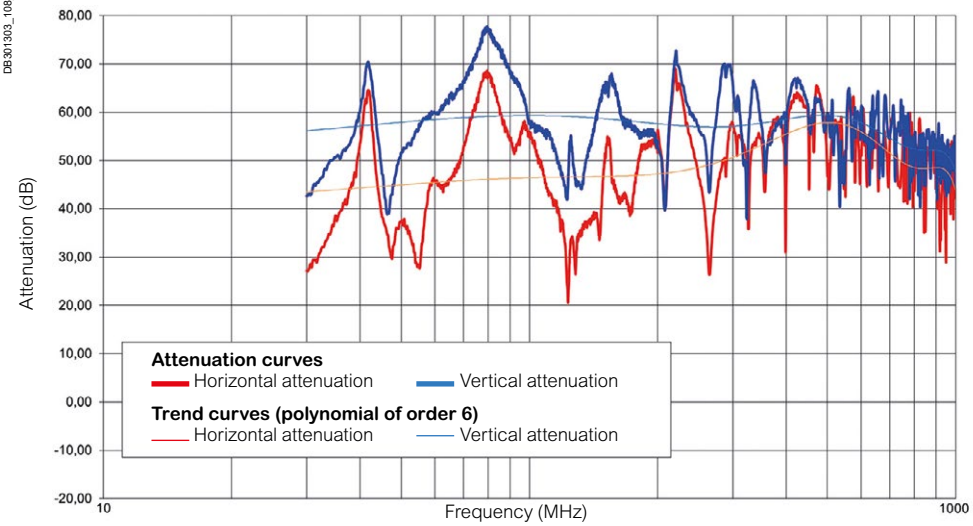
Standard PanelSeT S3D enclosures are tested against electromagnetic interference. Since the enclosure is tested empty, it is advisable to rerun the tests with the enclosure completely equipped in its final configuration.

Earth braids to be ordered separately, see page 589.

Another solution and information on electromagnetic compatibility: PanelSeT S3HF enclosure, page 384.

Attenuation Curve of the PanelSeT S3D Compared with the PanelSeT S3HF

DB301303_108_nb



PB501004_18_nb

Frequency: 3 - 13.2 Hz
Amplitude: 1 mm/sec below 22 Hz
Frequency: 3 - 100 Hz
Acceleration: 0.7 g above 30 Hz

PB501005_16_nb

Vibration constraints
Specific construction of the PanelSeT S3D - single-piece body (cross-shaped structure). The rear is flat without added parts - this allows it to comply with certain vibration constraints. The tests were conducted according to the “rules for ships” by “Det Norske Veritas”. Enclosures labelled “DNV” have undergone these tests and obtained classification “A”. Since the enclosure is tested empty, it is advisable to rerun the tests with the enclosure completely equipped in its final configuration.

Seismic constraint
The seismic behavior of the wall-mounted enclosure PanelSeT S3D has been qualified according to MRI spectra “big material” specified in the standard IEC 60068-2-6 and IEC 60068-2-57 (see page 344 for more details).
Tested enclosure configuration:
- Plain door,
- Plain mounting plate with a load of 250 kg/m² uniformly distributed on the mounting plate,
- Fixing to the wall with M8 screws (tightening torque: 12 Nm ± 1 Nm).

ATEX compliance
The PanelSeT S3D enclosure (with adaptation) is ATEX-certified by the LCIE.

Environmental properties
Compliance with RoHS and REACH directives.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** Steel Enclosures

Steel Floor-Standing Enclosures

Panel**SeT** SM: Compact Enclosures

PB500067_39_nb



Panel**SeT** SFN: Modular Enclosures

NSYSFN20860



NSYSFN20860_enclosure



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** SM: Compact Enclosures

Introduction	**64**
Characteristics	**66**
Selection Table	**68**
Accessories	**70**
Dimensions	**82**

Panel**SeT** SFN: Modular Enclosures

Introduction	**72**
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Selection Table	**76**
Accessories	**80**
Dimensions	**83**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** SM: Compact Enclosures

Introduction



The PanelSeT SM is a range of enclosures ideal for industrial automation and control appliances, and for machinery.
It offers a large portfolio of dimensions and delivery options.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

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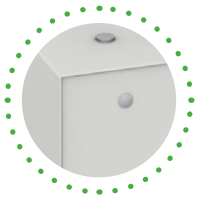
Robust

- Body made as a single piece with welded rear panel
- Front part forming a rigid frame with welded corners



Easy to Install

- Height-adjustable door rails suitable for cable fixing
- Optional adapter profiles can be added to provide the same fixing points as the suitable enclosure PanelSeT SFN



Protection

- IP protection supported by the rigidity of the enclosure, the expanded-polyurethane sealing gasket, and the final welding
- Double-door enclosures with inner lock on the left door



Comfort

- Sturdy handle design for easy activation of the locking system, accommodating any insert shape and cylindrical combination key
- Easily interchangeable insert with one click

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

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Steel Floor-Standing Enclosures

Panel**SeT** SM: Compact Enclosures

Characteristics

Characteristics	Compact enclosures PanelSeT SM
	
	• Compact body with a front rigid frame with welded corners and rear panel supports installed in depth to adjust and fix the equipment with a pitch of 25 mm
Basic composition	• The double doors are overlapping, with system for fixing the left door • Door reversible, 120° opening • Welded rear panel • System with 4 locking points with handle and 5-mm double-bar insert • Cable gland plate with 1 entry • Mounting plate support brackets
Versions / Configurations	• Compact enclosure with plain door and mounting plate • Compact enclosure with plain door and without mounting plate • Compact enclosure with transparent Securit® glass door and without mounting plate
Protection of personnel	Earthing accessories needed to help ensure the grounding continuity, page 589
Material	Steel
Finish	Structured finish, epoxy polyester powder
Color	RAL 7035 gray
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK10 for plain door and IK08 for transparent door according to IEC 62262
Standards	Compliance with enclosure standard IEC 62208 and RoHS and REACH directive
Certifications	BV Marine, UL (cULus), Rating according UL50E : single-door enclosures : Types 1, 2, 3R, 5 and 13. Double-door enclosures Types 1, 12
Installation	**Indoor** * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Canopy needed to avoid water stagnation on the upper part of the enclosure, page 525
Maximum load	500 kg
Options	• Plinths, heights 100 mm and 200 mm, page 532 • Lifting eyebolts, page 524 • Internal door, page 570 • Door accessories, page 582 • Other locking options, page 577 • Mounting plates and Telequick system, page 480

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PanelSeT SM: Compact Enclosures

Selection Table

Enclosures							Plinth (H 100 mm)	
				 PB500480-12	 PB500119-14	 PB500481-12	 PB500123-18	 PB500124-18
Dimensions (mm)								
Height	Width	Depth	Doors	Plain door, without mounting plate	Plain door, with mounting plate	Transparent door, without mounting plate	Front kit (corners + front panels)	Side panels, 2 units
1200	800	300	1	NSYSM12830	NSYSM12830P	-	NSYSPF8100	NSYSPS3100
1200	1000	300	2	NSYSM1210302D	NSYSM1210302DP	-	NSYSPF10100	NSYSPS3100
1200	1200	400	2	NSYSM1212402D	NSYSM1212402DP	-	NSYSPF12100	NSYSPS4100
1400	600	300	1	NSYSM14630	NSYSM14630P	-	NSYSPF6100	NSYSPS3100
1400	600	400	1	NSYSM14640	NSYSM14640P	-	NSYSPF6100	NSYSPS4100
1400	800	300	1	NSYSM14830	NSYSM14830P	-	NSYSPF8100	NSYSPS3100
1400	800	400	1	NSYSM14840	NSYSM14840P	NSYSM14840T	NSYSPF8100	NSYSPS4100
1400	1000	400	2	NSYSM1410402D	NSYSM1410402DP	-	NSYSPF10100	NSYSPS4100
1400	1200	400	2	NSYSM1412402D	NSYSM1412402DP	-	NSYSPF12100	NSYSPS4100
1600	600	300	1	NSYSM16630	NSYSM16630P	-	NSYSPF6100	NSYSPS3100
1600	600	400	1	NSYSM16640	NSYSM16640P	NSYSM16640T	NSYSPF6100	NSYSPS4100
1600	800	300	1	NSYSM16830	NSYSM16830P	-	NSYSPF8100	NSYSPS3100
1600	800	400	1	NSYSM16840	NSYSM16840P	NSYSM16840T	NSYSPF8100	NSYSPS4100
1600	1000	300	2	NSYSM1610302D	NSYSM1610302DP	-	NSYSPF10100	NSYSPS3100
1600	1000	400	2	NSYSM1610402D	NSYSM1610402DP	-	NSYSPF10100	NSYSPS4100
1600	1200	300	2	NSYSM1612302D	NSYSM1612302DP	-	NSYSPF12100	NSYSPS3100
1600	1200	400	2	NSYSM1612402D	NSYSM1612402DP	-	NSYSPF12100	NSYSPS4100
1800	600	300	1	NSYSM18630	NSYSM18630P	-	NSYSPF6100	NSYSPS3100
1800	600	400	1	NSYSM18640	NSYSM18640P	NSYSM18640T	NSYSPF6100	NSYSPS4100
1800	600	500	1	NSYSM18650	NSYSM18650P	-	NSYSPF6100	NSYSPS5100
1800	800	300	1	NSYSM18830	NSYSM18830P	NSYSM18830T	NSYSPF8100	NSYSPS3100
1800	800	400	1	NSYSM18840	NSYSM18840P	NSYSM18840T	NSYSPF8100	NSYSPS4100
1800	800	500	1	NSYSM18850	NSYSM18850P	NSYSM18850T	NSYSPF8100	NSYSPS5100
1800	800	600	1	NSYSM18860	NSYSM18860P	-	NSYSPF8100	NSYSPS6100
1800	1000	400	1	NSYSM181040	NSYSM181040P	-	NSYSPF10100	NSYSPS4100
1800	1000	400	2	NSYSM1810402D	NSYSM1810402DP	-	NSYSPF10100	NSYSPS4100
1800	1000	500	2	NSYSM1810502D	NSYSM1810502DP	-	NSYSPF10100	NSYSPS5100
1800	1200	400	2	NSYSM1812402D	NSYSM1812402DP	-	NSYSPF12100	NSYSPS4100
1800	1200	500	2	NSYSM1812502D	NSYSM1812502DP	-	NSYSPF12100	NSYSPS5100
1800	1600	400	2	NSYSM1816402D	NSYSM1816402DP	-	NSYSPF16100	NSYSPS4100
1800	1600	500	2	NSYSM1816502D	NSYSM1816502DP	-	NSYSPF16100	NSYSPS5100
2000	600	300	1	NSYSM20630	NSYSM20630P	-	NSYSPF6100	NSYSPS3100
2000	600	400	1	NSYSM20640	NSYSM20640P	NSYSM20640T	NSYSPF6100	NSYSPS4100
2000	600	500	1	NSYSM20650	NSYSM20650P	-	NSYSPF6100	NSYSPS5100
2000	800	300	1	NSYSM20830	NSYSM20830P	NSYSM20830T	NSYSPF8100	NSYSPS3100
2000	800	400	1	NSYSM20840	NSYSM20840P	NSYSM20840T	NSYSPF8100	NSYSPS4100
2000	800	500	1	NSYSM20850	NSYSM20850P	NSYSM20850T	NSYSPF8100	NSYSPS5100
2000	800	600	1	NSYSM20860	NSYSM20860P	NSYSM20860T	NSYSPF8100	NSYSPS6100
2000	1000	400	2	NSYSM2010402D	NSYSM2010402DP	-	NSYSPF10100	NSYSPS4100
2000	1000	500	2	NSYSM2010502D	NSYSM2010502DP	-	NSYSPF10100	NSYSPS5100
2000	1200	400	2	NSYSM2012402D	NSYSM2012402DP	-	NSYSPF12100	NSYSPS4100
2000	1200	500	2	NSYSM2012502D	NSYSM2012502DP	-	NSYSPF12100	NSYSPS5100
2000	1200	600	2	NSYSM2012602D	NSYSM2012602DP	-	NSYSPF12100	NSYSPS6100
2000	1600	400	2	NSYSM2016402D	NSYSM2016402DP	-	NSYSPF16100	NSYSPS4100
2000	1600	500	2	NSYSM2016502D	NSYSM2016502DP	-	NSYSPF16100	NSYSPS5100
2000	1600	600	2	NSYSM2016602D	NSYSM2016602DP	-	NSYSPF16100	NSYSPS6100

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PanelSeT SM: Compact Enclosures

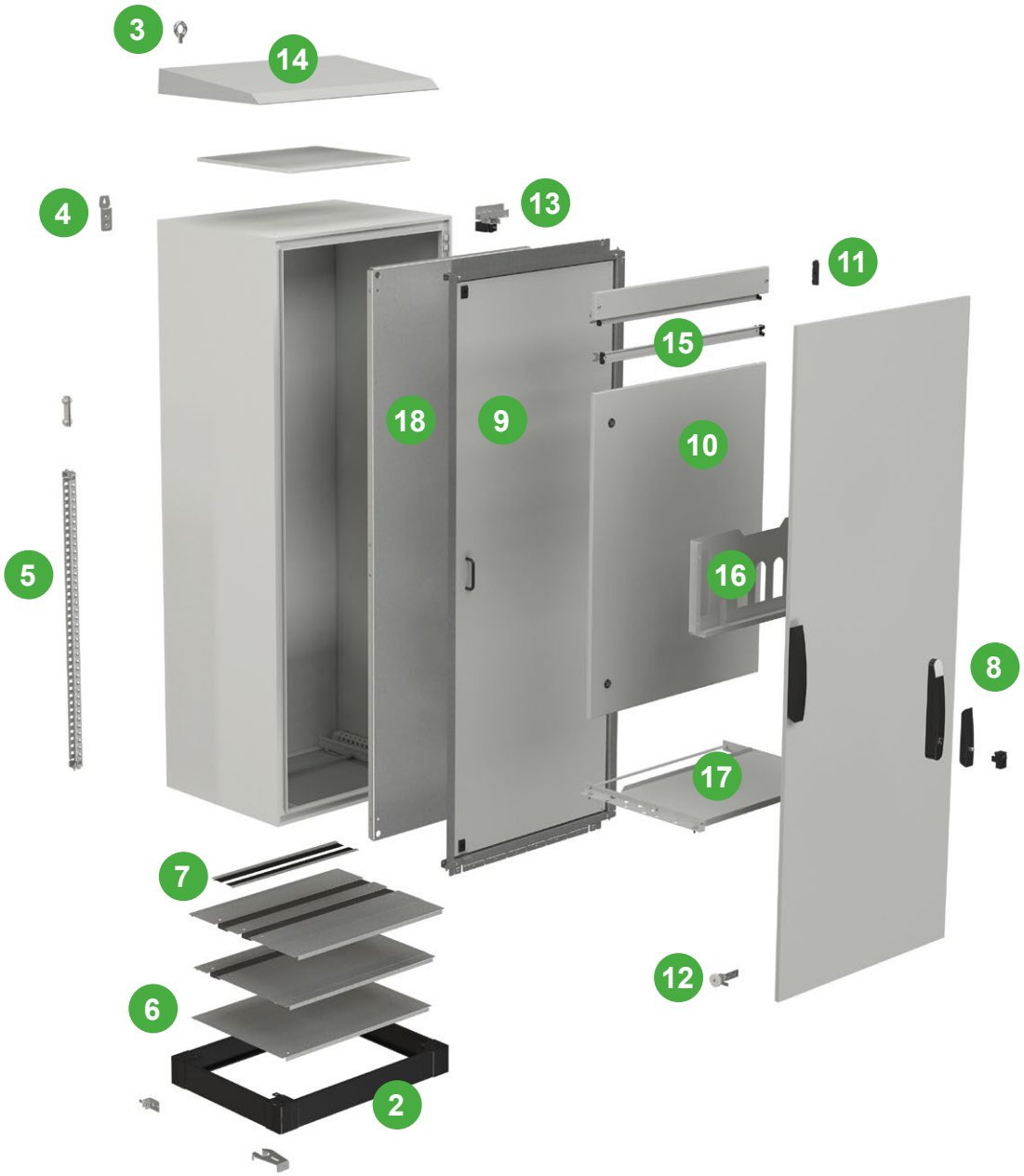
Selection Table

	Plinth (H 200 mm)		Internal door	Mounting plate	Vertical uprights		19" swing rack				
											
	Front kit (corners + front panels)	Side panels, 4 units	Plain door	Galvanized	Standard	Technical	Off-center	Centered	Dimensions (mm) Height	Width	Depth
	NSYSPF8200	NSYSPS3200	-	NSYMP128	-	NSYTVR12	-	-	1200	800	300
	NSYSPF10200	NSYSPS3200	-	NSYMP1210	-	NSYTVR12	-	-	1200	1000	300
	NSYSPF12200	NSYSPS4200	-	NSYMP1212	-	NSYTVR12	-	-	1200	1200	400
	NSYSPF6200	NSYSPS3200	-	NSYMP146	-	NSYTVR14	-	-	1400	600	300
	NSYSPF6200	NSYSPS4200	-	NSYMP146	-	NSYTVR14	-	-	1400	600	400
	NSYSPF8200	NSYSPS3200	-	NSYMP148	-	NSYTVR14	NSYRSW27	-	1400	800	300
	NSYSPF8200	NSYSPS4200	-	NSYMP148	-	NSYTVR14	NSYRSW27	-	1400	800	400
	NSYSPF10200	NSYSPS4200	-	NSYMP1410	-	NSYTVR14	-	-	1400	1000	400
	NSYSPF12200	NSYSPS4200	-	NSYMP1412	-	NSYTVR14	-	-	1400	1200	400
	NSYSPF6200	NSYSPS3200	NSYID166	NSYMP166	-	NSYTVR16	-	-	1600	600	300
	NSYSPF6200	NSYSPS4200	NSYID166	NSYMP166	-	NSYTVR16	-	-	1600	600	400
	NSYSPF8200	NSYSPS3200	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	-	1600	800	300
	NSYSPF8200	NSYSPS4200	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	-	1600	800	400
	NSYSPF10200	NSYSPS3200	-	NSYMP1610	-	NSYTVR16	-	-	1600	1000	300
	NSYSPF10200	NSYSPS4200	-	NSYMP1610	-	NSYTVR16	-	-	1600	1000	400
	NSYSPF12200	NSYSPS3200	-	NSYMP1612	-	NSYTVR16	-	-	1600	1200	300
	NSYSPF12200	NSYSPS4200	-	NSYMP1612	-	NSYTVR16	-	-	1600	1200	400
	NSYSPF6200	NSYSPS3200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-	1800	600	300
	NSYSPF6200	NSYSPS4200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-	1800	600	400
	NSYSPF6200	NSYSPS5200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-	1800	600	500
	NSYSPF8200	NSYSPS3200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	1800	800	300
	NSYSPF8200	NSYSPS4200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	1800	800	400
	NSYSPF8200	NSYSPS5200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	1800	800	500
	NSYSPF8200	NSYSPS6200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	1800	800	600
	NSYSPF10200	NSYSPS4200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	1800	1000	400
	NSYSPF10200	NSYSPS4200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	1800	1000	400
	NSYSPF10200	NSYSPS5200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	1800	1000	500
	NSYSPF12200	NSYSPS4200	-	NSYMP1812	NSYVR18	NSYTVR18	-	-	1800	1200	400
	NSYSPF12200	NSYSPS5200	-	NSYMP1812	NSYVR18	NSYTVR18	-	-	1800	1200	500
	NSYSPF16200	NSYSPS4200	-	NSYMP1816	NSYVR18	NSYTVR18	-	-	1800	1600	400
	NSYSPF16200	NSYSPS5200	-	NSYMP1816	NSYVR18	NSYTVR18	-	-	1800	1600	500
	NSYSPF6200	NSYSPS3200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-	2000	600	300
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	NSYSPF8200	NSYSPS4200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	2000	800	400
	NSYSPF8200	NSYSPS5200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	2000	800	500
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	NSYSPF12200	NSYSPS4200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	2000	1200	400
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	NSYSPF12200	NSYSPS6200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	2000	1200	600
	NSYSPF16200	NSYSPS4200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	2000	1600	400
	NSYSPF16200	NSYSPS5200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	2000	1600	500
	NSYSPF16200	NSYSPS6200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	2000	1600	600

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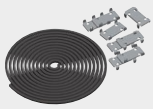
PanelSeT SM: Compact Enclosures

Accessories



Fixing and Coupling Accessories

1



Coupling kits and accessories

See details p. 520

2



Floor fixing plinths and accessories

See details p. 532

3



Lifting systems: eyebolts, brackets and bars

See details p. 524

4



Wall fixing support

See details p. 528

5



Vertical uprights

See details p. 491

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Cabling Accessories

6



Gland plates: plain, 1 entry, 2 entries

See details p. 560

7



Cables entry gaskets and sealing gaskets

See details p. 563

Door Accessories

8



Inserts, keys, locks and handles

See details p. 577

9



Internal door

See details p. 570

10



Partial door

See details p. 571

11



Hinges

See details p. 580

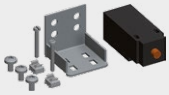
12



Door-centering caster

See details p. 583

13



Door switch

See details p. 581

Other Accessories

14



Canopy

See details p. 525

15



Intermediate crossbar

See details p. 582

16



Document pocket

See details p. 582

17



Support tray

See details p. 582

18



Mounting plate

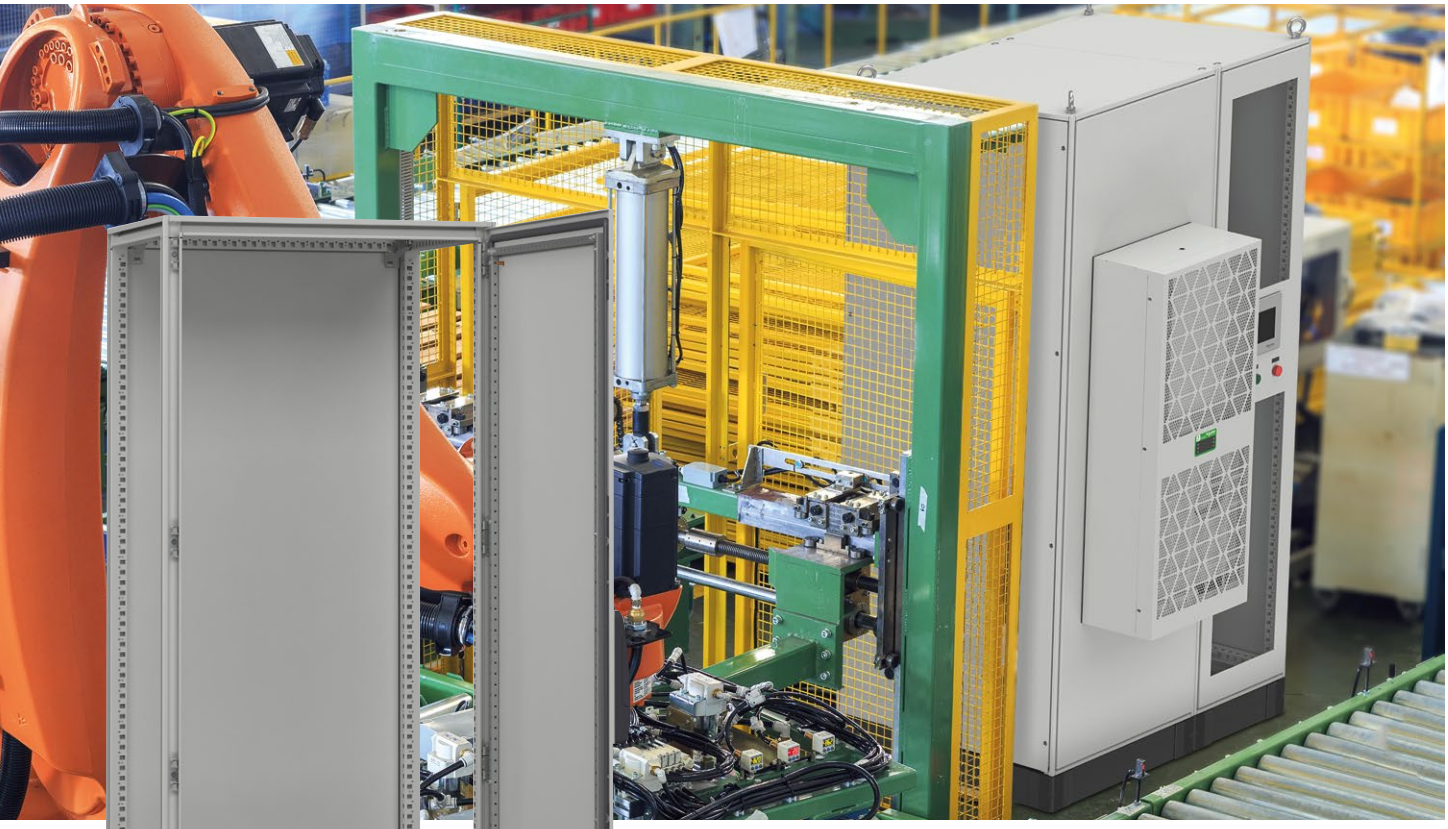
See details p. 480

> For more information consult the Accessories chapter **page 472**

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Panel**SeT** SFN: Modular Enclosures

Introduction





New

This steel floor-standing enclosure is the most robust on the market, capable of withstanding 1500 kg distributed across its volume. It is able to offer this capacity thanks to its unique framework design, based on the use of a highly rigid exclusive profile.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

This range can be configured according to your needs
4 different services available:

- Assemble to order
- Mounting of standard accessories
- Machining
- Painting

For more information, see **Customization Services** page 12.

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PanelSeT SFN Modular Floor-Standing Low-Carbon Steel Enclosures



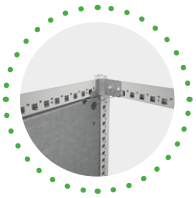
PanelSeT SFN
The first low-carbon emission steel enclosure

Reduced carbon footprint: manufactured with a minimum of 50% of steel produced from renewable energy and recycled materials (1), leading to a 34% $C0_2$ reduction on the total enclosure lifecycle (2)



Robust
New patented frame and fixation corner system in a bolted structure. Uprights fixed by 8 screws, one at each corner of the enclosure.

Capable of withstanding a static load of up to 1500 kg throughout its volume.



Efficient
- Quick system for the mounting plate allowing faster assembly
- Most accessories to be installed using the same self-tapping Torx T30 screws



- Second door handle for easy and ergonomic open-close operation



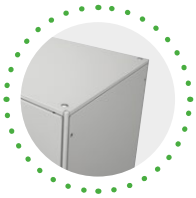
- Quick door removal and installation to facilitate assembly



- Panels include self-centering piece and captive screws for easier assembly and dismantling



Modular
The design allows enclosures to be coupled in any direction and layout, adapting to all installation surfaces



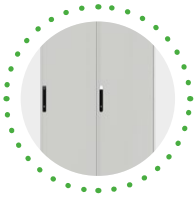
Aesthetics
- Streamlined extended roof and panels giving a new smoother appearance with less fixation points



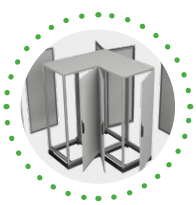
- Ergonomic and convenient main handle, which features a label that can be used for customizing a signature or identification tag



Flexible
Delivered assembled, with or without plate, with plain or glazed door, as a kit or customized to adapt to all spaces and needs



Compatible
Fully couplable with the previous PanelSeT SF version and compatible with its accessories



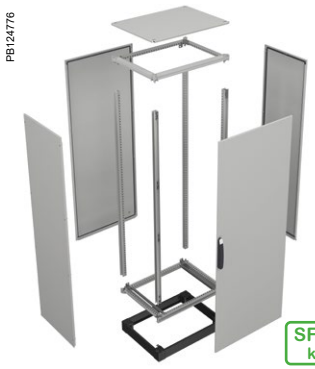
Accessible
The symmetric design of the profile allows doors to be installed on any side of the enclosure, opening right or left and providing full accessibility to the enclosure

(1) More info on Arcelor Mittal website (XCarb® recycled and renewably produced).
(2) According to the comparison of PanelSeT SFN PEP (ENVPEP2301018) and Spacial SF PEP (ENVPEP110923) using the same calculation methodology provided in the Product Category Rules of PEP Ecopassport association (PCRed4).

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PanelSeT SFN: Modular Enclosures

Characteristics

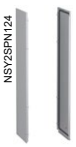
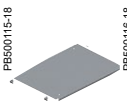
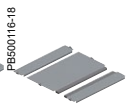
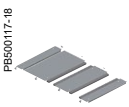
Characteristics	Suitable enclosures PanelSeT SFN - supplied assembled	Suitable enclosures PanelSeT SFN - supplied as a kit
	 SFN	 SFN kit
	• Structure made up of vertical uprights joined with top and bottom frames • Panels and doors built into the structure • Formed from a single section and perforated structure with a pitch of 25 mm	• Separate door, panels, frames and vertical uprights
Basic composition	• Front door with a reinforcement frame (horizontal rails height-adjustable)and bottom trim • The double doors are overlapping, with a central handle on the left door • Door reversible, 120° opening • Extended rear panel screwed on with captive screws • Removable extended roof • System with 4 locking points with handle and 5-mm double-bar insert • Mounting plate support brackets (for widths from 600 mm) and quick-fixation system • Mounting plate sliding rails (for widths from 600 mm)	• Front door with a reinforcement frame (horizontal rails height-adjustable) and bottom trim • The double doors are overlapping, with a central handle on the left door • Door reversible, 120° opening • Extended rear panel to be screwed on with captive screws • Removable extended roof delivered with top and bottom frame • System with 4 locking points with handle and 5-mm double-bar insert • Mounting plate support brackets delivered with top and bottom frame kit (for widths from 600 mm) and quick-fixation system • Mounting plate sliding rails delivered with top and bottom frame kit (for widths from 600 mm)
Versions / Configurations	• Modular enclosure with plain door and mounting plate • Modular enclosure with plain door and without mounting plate • Modular enclosure with transparent Securit® glass door and without mounting plate	• Uprights kit • Top and bottom frame kit • Rear panel kit • Door kit (plain or transparent)
Protection of personnel	Earthing accessories needed for grounding continuity	
Material	Low-carbon steel	
Finish	Structured finish, epoxy polyester powder	
Color	RAL 7035 gray	
Ingress protection rating	IP55 according to IEC 60529 (with side panels and plain cable gland plate with gasket)	
Mechanical protection rating	IK10 for plain door and IK08 for transparent door according to IEC 62262	
Standards	Compliance with enclosure standard IEC 62208 and RoHS and REACH directive	
Certifications	BV, DNV, UL (cULus) Rating according to UL50E: Types 1, 3R, 12	
Static Installation	**Indoor** * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Canopy needed to avoid water stagnation on the upper part of the enclosure, page 525	
Maximum load	1500 kg	
Options	• Side panels options, page 517 • Enclosure suites options, page 520 • Plinths, heights 100 mm and 200 mm, page 532 • Cable gland plates, page 544 • Lifting systems, page 524 • Roof options, page 525 • Door accessories, page 582 • Other locking options, page 577 • Mounting plates and Telequick system, page 480	• Side panels options, page 517 • Enclosure suites options, page 520 • Plinths, heights 100 mm and 200 mm, page 532 • Cable gland plates, page 544 • Lifting systems, page 524 • Roof options, page 525 • Other locking options, page 577 • Mounting plates and Telequick system, page 480

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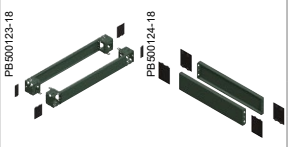
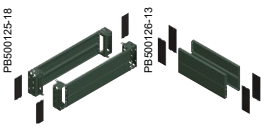
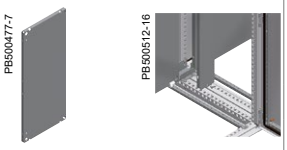
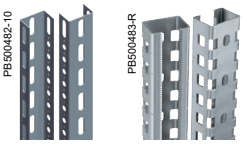
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PanelSeT SFN: Modular Enclosures

Selection Table

Dimensions (mm)				Enclosures			Side panels	Cable entry plates		
								  		
(A) Height	(B) Width	(C) Depth	Doors	Plain door, without mounting plate	Plain door, with mounting plate	Transparent door, without mounting plate	Plain	Plain	1 entry	2 entries
1200	600	400	1	NSYSFN12640	NSYSFN12640P	-	NSY2SPN124	NSYEC64	NSYEC641	-
1200	600	600	1	NSYSFN12660	NSYSFN12660P	-	NSY2SPN126	NSYEC66	NSYEC661	NSYEC662
1200	800	400	1	NSYSFN12840	NSYSFN12840P	-	NSY2SPN124	NSYEC84	NSYEC841	-
1200	800	600	1	NSYSFN12860	NSYSFN12860P	-	NSY2SPN126	NSYEC86	NSYEC861	NSYEC862
1400	600	400	1	NSYSFN14640	NSYSFN14640P	-	NSY2SPN144	NSYEC64	NSYEC641	-
1400	800	400	1	NSYSFN14840	NSYSFN14840P	-	NSY2SPN144	NSYEC84	NSYEC841	-
1600	600	600	1	NSYSFN16660	NSYSFN16660P	-	NSY2SPN166	NSYEC66	NSYEC661	NSYEC662
1600	600	800	1	NSYSFN16680	NSYSFN16680P	-	NSY2SPN168	NSYEC68	NSYEC681	NSYEC682
1600	800	600	1	NSYSFN16860	NSYSFN16860P	-	NSY2SPN166	NSYEC86	NSYEC861	NSYEC862
1600	800	800	1	NSYSFN16880	NSYSFN16880P	-	NSY2SPN168	NSYEC88	NSYEC881	NSYEC882
1800	400	400	1	NSYSFN18440	-	-	NSY2SPN184	NSYEC44	NSYEC441	-
1800	400	500	1	NSYSFN18450	-	-	NSY2SPN185	NSYEC45	NSYEC451	-
1800	400	600	1	NSYSFN18460	-	-	NSY2SPN186	NSYEC64	NSYEC461	NSYEC462
1800	600	400	1	NSYSFN18640	NSYSFN18640P	NSYSFN18640T	NSY2SPN184	NSYEC64	NSYEC641	-
1800	600	500	1	NSYSFN18650	NSYSFN18650P	NSYSFN18650T	NSY2SPN185	NSYEC65	NSYEC651	-
1800	600	600	1	NSYSFN18660	NSYSFN18660P	-	NSY2SPN186	NSYEC66	NSYEC661	NSYEC662
1800	600	800	1	-	-	NSYSFN18680T	NSY2SPN188	NSYEC68	NSYEC681	NSYEC682
1800	800	400	1	NSYSFN18840	NSYSFN18840P	NSYSFN18840T	NSY2SPN184	NSYEC84	NSYEC841	-
1800	800	500	1	NSYSFN18850	NSYSFN18850P	NSYSFN18850T	NSY2SPN185	NSYEC85	NSYEC851	-
1800	800	600	1	NSYSFN18860	NSYSFN18860P	NSYSFN18860T	NSY2SPN186	NSYEC86	NSYEC861	NSYEC862
1800	800	600	2	NSYSFN188602D	NSYSFN188602DP	-	NSY2SPN186	NSYEC86	NSYEC861	NSYEC862
1800	1000	400	1	NSYSFN181040	NSYSFN181040P	-	NSY2SPN184	NSYEC104	NSYEC1041	-
1800	1000	400	2	NSYSFN1810402D	NSYSFN1810402DP	-	NSY2SPN184	NSYEC104	NSYEC1041	-
1800	1000	500	1	NSYSFN181050	NSYSFN181050P	-	NSY2SPN185	NSYEC105	NSYEC1051	-
1800	1000	600	1	NSYSFN181060	NSYSFN181060P	-	NSY2SPN186	NSYEC106	NSYEC1061	NSYEC1062
1800	1000	600	2	NSYSFN1810602D	NSYSFN1810602DP	-	NSY2SPN186	NSYEC106	NSYEC1061	NSYEC1062
1800	1200	400	2	NSYSFN1812402D	NSYSFN1812402DP	-	NSY2SPN184	NSYEC124	NSYEC1241	-
1800	1200	500	2	NSYSFN1812502D	NSYSFN1812502DP	-	NSY2SPN185	NSYEC125	NSYEC1251	-
1800	1200	600	2	NSYSFN1812602D	NSYSFN1812602DP	-	NSY2SPN186	NSYEC126	NSYEC1261	NSYEC1262
1800	1600	400	1	NSYSFN1816402D	-	-	NSY2SPN184	NSYEC164	NSYEC1641	-
2000	300	500	1	NSYSFN20350	-	-	NSY2SPN205	NSYEC35	NSYEC351	-
2000	300	600	1	NSYSFN20360	-	-	NSY2SPN206	NSYEC36	NSYEC361	-
2000	300	800	1	NSYSFN20380	-	-	NSY2SPN208	-	NSYEC381	-
2000	400	400	1	NSYSFN20440	-	-	NSY2SPN204	NSYEC44	NSYEC441	-
2000	400	500	1	NSYSFN20450	-	-	NSY2SPN205	NSYEC45	NSYEC451	-
2000	400	600	1	NSYSFN20460	-	-	NSY2SPN206	NSYEC64	NSYEC461	NSYEC462
2000	400	800	1	NSYSFN20480	-	-	NSY2SPN208	NSYEC84	NSYEC481	NSYEC482
2000	600	400	1	NSYSFN20640	NSYSFN20640P	NSYSFN20640T	NSY2SPN204	NSYEC64	NSYEC641	-
2000	600	500	1	NSYSFN20650	NSYSFN20650P	NSYSFN20650T	NSY2SPN205	NSYEC65	NSYEC651	-
2000	600	600	1	NSYSFN20660	NSYSFN20660P	-	NSY2SPN206	NSYEC66	NSYEC661	NSYEC662
2000	600	800	1	NSYSFN20680	NSYSFN20680P	-	NSY2SPN208	NSYEC68	NSYEC681	NSYEC682
2000	800	400	1	NSYSFN20840	NSYSFN20840P	NSYSFN20840T	NSY2SPN204	NSYEC84	NSYEC841	-
2000	800	500	1	NSYSFN20850	NSYSFN20850P	NSYSFN20850T	NSY2SPN205	NSYEC85	NSYEC851	-
2000	800	600	1	NSYSFN20860	NSYSFN20860P	NSYSFN20860T	NSY2SPN206	NSYEC86	NSYEC861	NSYEC862
2000	800	600	2	NSYSFN208602D	NSYSFN208602DP	-	NSY2SPN206	NSYEC86	NSYEC861	NSYEC862
2000	800	800	1	NSYSFN20880	NSYSFN20880P	NSYSFN20880T	NSY2SPN208	NSYEC88	NSYEC881	NSYEC882
2000	1000	400	1	NSYSFN201040	NSYSFN201040P	NSYSFN201040T	NSY2SPN204	NSYEC104	NSYEC1041	-
2000	1000	400	2	NSYSFN2010402D	NSYSFN2010402DP	-	NSY2SPN204	NSYEC104	NSYEC1041	-
2000	1000	500	1	NSYSFN201050	NSYSFN201050P	NSYSFN201050T	NSY2SPN205	NSYEC105	NSYEC1051	-
2000	1000	500	2	NSYSFN2010502D	NSYSFN2010502DP	-	NSY2SPN205	NSYEC105	NSYEC1051	-
2000	1000	600	1	NSYSFN201060	NSYSFN201060P	NSYSFN201060T	NSY2SPN206	NSYEC106	NSYEC1061	NSYEC1062
2000	1000	600	2	NSYSFN2010602D	NSYSFN2010602DP	-	NSY2SPN206	NSYEC106	NSYEC1061	NSYEC1062
2000	1000	800	1	NSYSFN201080	NSYSFN201080P	-	NSY2SPN208	NSYEC108	NSYEC1081	NSYEC1082
2000	1200	400	2	NSYSFN2012402D	NSYSFN2012402DP	-	NSY2SPN204	NSYEC124	NSYEC1241	-
2000	1200	500	2	NSYSFN2012502D	NSYSFN2012502DP	-	NSY2SPN205	NSYEC125	NSYEC1251	-
2000	1200	600	2	NSYSFN2012602D	NSYSFN2012602DP	-	NSY2SPN206	NSYEC126	NSYEC1261	NSYEC1262
2000	1200	800	2	NSYSFN2012802D	NSYSFN2012802DP	-	NSY2SPN208	NSYEC128	NSYEC1281	NSYEC1282
2000	1600	400	2	NSYSFN2016402D	NSYSFN2016402DP	-	NSY2SPN204	NSYEC164	NSYEC1641	-
2000	1600	500	2	NSYSFN2016502D	NSYSFN2016502DP	-	NSY2SPN205	NSYEC165	NSYEC1651	-
2000	1600	600	2	NSYSFN2016602D	NSYSFN2016602DP	-	NSY2SPN206	NSYEC166	NSYEC1661	NSYEC1662
2200	400	600	1	NSYSFN22460	-	-	NSY2SPN226	NSYEC64	NSYEC461	-
2200	600	600	1	NSYSFN22660	NSYSFN22660P	-	NSY2SPN226	NSYEC66	NSYEC661	NSYEC662
2200	600	800	1	NSYSFN22680	NSYSFN22680P	-	NSY2SPN228	NSYEC68	NSYEC681	NSYEC682
2200	800	600	1	NSYSFN22860	NSYSFN22860P	-	NSY2SPN226	NSYEC86	NSYEC861	NSYEC862
2200	800	800	1	NSYSFN22880	NSYSFN22880P	NSYSFN22880T	NSY2SPN228	NSYEC88	NSYEC881	NSYEC882
2200	1000	600	1	NSYSFN221060	NSYSFN221060P	-	NSY2SPN226	NSYEC106	NSYEC1061	NSYEC1062
2200	1200	600	2	NSYSFN2212602D	NSYSFN2212602DP	-	NSY2SPN226	NSYEC126	NSYEC1261	NSYEC1262
2200	1200	800	2	NSYSFN2212802D	NSYSFN2212802DP	-	NSY2SPN228	NSYEC128	NSYEC1281	NSYEC1282

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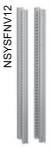
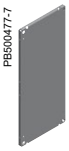
Plinths (H 100 mm)		Plinths (H 200 mm)		Mounting plates		Vertical uprights		Dimensions (mm)		
								(A)	(B)	(C)
Front kit (corners + front panels)	Side panels, 2 units	Front kit (corners + front panels)	Side panels, 4 units	Mounting plate	Intermediate mounting plate	Standard	Technical	Height	Width	Depth
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12	1200	600	400
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12	1200	600	600
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12	1200	800	400
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12	1200	800	600
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14	1400	600	400
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14	1400	800	400
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16	1600	600	600
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP166	NSYSIMP16	-	NSYTVR16	1600	600	800
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16	1600	800	600
NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16	1600	800	800
NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	NSYMP184	NSYSIMP18	NSYVR18	NSYTVR18	1800	400	400
NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	NSYMP184	NSYSIMP18	NSYVR18	NSYTVR18	1800	400	500
NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	NSYMP184	NSYSIMP18	NSYVR18	NSYTVR18	1800	400	600
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18	1800	600	400
NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18	1800	600	500
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18	1800	600	600
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18	1800	600	800
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18	1800	800	400
NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18	1800	800	500
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18	1800	800	600
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18	1800	800	600
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18	1800	1000	400
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18	1800	1000	400
NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18	1800	1000	500
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18	1800	1000	600
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18	1800	1000	600
NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18	1800	1200	400
NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18	1800	1200	500
NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18	1800	1200	600
NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	NSYMP1816	NSYSIMP18	NSYVR18	NSYTVR18	1800	1600	400
NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200	-	-	NSYVR20	NSYTVR20	2000	300	500
NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200	-	-	NSYVR20	NSYTVR20	2000	300	600
NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200	-	-	NSYVR20	NSYTVR20	2000	300	800
NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	NSYMP204	NSYSIMP20	NSYVR20	NSYTVR20	2000	400	400
NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	NSYMP204	NSYSIMP20	NSYVR20	NSYTVR20	2000	400	500
NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	NSYMP204	NSYSIMP20	NSYVR20	NSYTVR20	2000	400	600
NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200	NSYMP204	NSYSIMP20	NSYVR20	NSYTVR20	2000	400	800
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20	2000	600	400
NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20	2000	600	500
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20	2000	600	600
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20	2000	600	800
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20	2000	800	400
NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20	2000	800	500
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20	2000	800	600
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20	2000	800	600
NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20	2000	800	800
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	2000	1000	400
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	2000	1000	400
NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	2000	1000	500
NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	2000	1000	500
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	2000	1000	600
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	2000	1000	600
NSYSPF10100	NSYSPS8100	NSYSPF10200	NSYSPS8200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	2000	1000	800
NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20	2000	1200	400
NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20	2000	1200	500
NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20	2000	1200	600
NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20	2000	1200	800
NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20	2000	1600	400
NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20	2000	1600	500
NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20	2000	1600	600
NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	NSYMP224	NSYSIMP22	NSYVR22	NSYTVR22	2200	400	600
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22	2200	600	600
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22	2200	600	800
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22	2200	800	600
NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22	2200	800	800
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2210	NSYSIMP22	NSYVR22	NSYTVR22	2200	1000	600
NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22	2200	1200	600
NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22	2200	1200	800

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Steel Floor-Standing Enclosures

Panel**SeT** SFN Kit: Modular Enclosures

Selection Table

				Vertical uprights	Bottom frame and top frame with roof	Panels		Doors		Mounting plate
				 NSYSFNV12	 NSYSFNC64	 NSYBPN126  NSY2SPN124		 NSY2SPN128 (Hinges, locking bar catches and handle with 5-mm double-bar insert included)	 NSY2SPN128T (Securit® glass, hinges, locking bar catches and handle with 5-mm double-bar insert included)	 PB500477-7
Dimensions (mm)										
(A) Height	(B) Width	(C) Depth	Doors	Standard	Frames	Rear panel	Side panel	Plain	Transparent	Standard
1200	600	400	1	NSYSFNV12	NSYSFNC64	NSYBPN126	NSY2SPN124	NSYSFND126	NSYSFND126T	NSYMP126
1200	600	500	1	NSYSFNV12	NSYSFNC65	NSYBPN126	NSY2SPN125	NSYSFND126	NSYSFND126T	NSYMP126
1200	600	600	1	NSYSFNV12	NSYSFNC66	NSYBPN126	NSY2SPN126	NSYSFND126	NSYSFND126T	NSYMP126
1200	600	800	1	NSYSFNV12	NSYSFNC68	NSYBPN126	NSY2SPN128	NSYSFND126	NSYSFND126T	NSYMP126
1200	800	400	1	NSYSFNV12	NSYSFNC84	NSYBPN128	NSY2SPN124	NSYSFND128	NSYSFND128T	NSYMP128
1200	800	500	1	NSYSFNV12	NSYSFNC85	NSYBPN128	NSY2SPN125	NSYSFND128	NSYSFND128T	NSYMP128
1200	800	600	1	NSYSFNV12	NSYSFNC86	NSYBPN128	NSY2SPN126	NSYSFND128	NSYSFND128T	NSYMP128
1200	800	800	1	NSYSFNV12	NSYSFNC88	NSYBPN128	NSY2SPN128	NSYSFND128	NSYSFND128T	NSYMP128
1400	600	400	1	NSYSFNV14	NSYSFNC64	NSYBPN146	NSY2SPN144	NSYSFND146	NSYSFND146T	NSYMP146
1400	600	500	1	NSYSFNV14	NSYSFNC65	NSYBPN146	NSY2SPN145	NSYSFND146	NSYSFND146T	NSYMP146
1400	600	600	1	NSYSFNV14	NSYSFNC66	NSYBPN146	NSY2SPN146	NSYSFND146	NSYSFND146T	NSYMP146
1400	600	800	1	NSYSFNV14	NSYSFNC68	NSYBPN146	NSY2SPN148	NSYSFND146	NSYSFND146T	NSYMP146
1400	800	400	1	NSYSFNV14	NSYSFNC84	NSYBPN148	NSY2SPN144	NSYSFND148	NSYSFND148T	NSYMP148
1400	800	500	1	NSYSFNV14	NSYSFNC85	NSYBPN148	NSY2SPN145	NSYSFND148	NSYSFND148T	NSYMP148
1400	800	600	1	NSYSFNV14	NSYSFNC86	NSYBPN148	NSY2SPN146	NSYSFND148	NSYSFND148T	NSYMP148
1400	800	800	1	NSYSFNV14	NSYSFNC88	NSYBPN148	NSY2SPN148	NSYSFND148	NSYSFND148T	NSYMP148
1600	600	400	1	NSYSFNV16	NSYSFNC64	NSYBPN166	NSY2SPN164	NSYSFND166	NSYSFND166T	NSYMP166
1600	600	500	1	NSYSFNV16	NSYSFNC65	NSYBPN166	NSY2SPN165	NSYSFND166	NSYSFND166T	NSYMP166
1600	600	600	1	NSYSFNV16	NSYSFNC66	NSYBPN166	NSY2SPN166	NSYSFND166	NSYSFND166T	NSYMP166
1600	600	800	1	NSYSFNV16	NSYSFNC68	NSYBPN166	NSY2SPN168	NSYSFND166	NSYSFND166T	NSYMP166
1600	800	400	1	NSYSFNV16	NSYSFNC84	NSYBPN168	NSY2SPN164	NSYSFND168	NSYSFND168T	NSYMP168
1600	800	500	1	NSYSFNV16	NSYSFNC85	NSYBPN168	NSY2SPN165	NSYSFND168	NSYSFND168T	NSYMP168
1600	800	600	1	NSYSFNV16	NSYSFNC86	NSYBPN168	NSY2SPN166	NSYSFND168	NSYSFND168T	NSYMP168
1600	800	800	1	NSYSFNV16	NSYSFNC88	NSYBPN168	NSY2SPN168	NSYSFND168	NSYSFND168T	NSYMP168
1800	400	400	1	NSYSFNV18	NSYSFNC44	NSYBPN184	NSY2SPN184	NSYSFND184	-	NSYMP184
1800	400	500	1	NSYSFNV18	NSYSFNC45	NSYBPN184	NSY2SPN185	NSYSFND184	-	NSYMP184
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1800	400	800	1	NSYSFNV18	NSYSFNC48	NSYBPN184	NSY2SPN188	NSYSFND184	-	NSYMP184
1800	600	400	1	NSYSFNV18	NSYSFNC64	NSYBPN186	NSY2SPN184	NSYSFND186	NSYSFND186T	NSYMP186
1800	600	500	1	NSYSFNV18	NSYSFNC65	NSYBPN186	NSY2SPN185	NSYSFND186	NSYSFND186T	NSYMP186
1800	600	600	1	NSYSFNV18	NSYSFNC66	NSYBPN186	NSY2SPN186	NSYSFND186	NSYSFND186T	NSYMP186
1800	600	800	1	NSYSFNV18	NSYSFNC68	NSYBPN186	NSY2SPN188	NSYSFND186	NSYSFND186T	NSYMP186
1800	800	400	1	NSYSFNV18	NSYSFNC84	NSYBPN188	NSY2SPN184	NSYSFND188	NSYSFND188T	NSYMP188
1800	800	500	1	NSYSFNV18	NSYSFNC85	NSYBPN188	NSY2SPN185	NSYSFND188	NSYSFND188T	NSYMP188
1800	800	600	1	NSYSFNV18	NSYSFNC86	NSYBPN188	NSY2SPN186	NSYSFND188	NSYSFND188T	NSYMP188
1800	800	600	2	NSYSFNV18	NSYSFNC86	NSYBPN188	NSY2SPN186	NSYSFND1882D	-	NSYMP188
1800	800	800	1	NSYSFNV18	NSYSFNC88	NSYBPN188	NSY2SPN188	NSYSFND188	NSYSFND188T	NSYMP188
1800	800	800	2	NSYSFNV18	NSYSFNC88	NSYBPN188	NSY2SPN188	NSYSFND1882D	-	NSYMP188
1800	1000	400	1	NSYSFNV18	NSYSFNC104	NSYBPN1810	NSY2SPN184	NSYSFND1810	NSYSFND1810T	NSYMP1810
1800	1000	400	2	NSYSFNV18	NSYSFNC104	NSYBPN1810	NSY2SPN184	NSYSFND18102D	-	NSYMP1810
1800	1000	500	1	NSYSFNV18	NSYSFNC105	NSYBPN1810	NSY2SPN185	NSYSFND1810	NSYSFND1810T	NSYMP1810
1800	1000	600	1	NSYSFNV18	NSYSFNC106	NSYBPN1810	NSY2SPN186	NSYSFND1810	NSYSFND1810T	NSYMP1810
1800	1000	600	2	NSYSFNV18	NSYSFNC106	NSYBPN1810	NSY2SPN186	NSYSFND18102D	-	NSYMP1810
1800	1000	800	1	NSYSFNV18	NSYSFNC108	NSYBPN1810	NSY2SPN188	NSYSFND1810	NSYSFND1810T	NSYMP1810
1800	1000	800	2	NSYSFNV18	NSYSFNC108	NSYBPN1810	NSY2SPN188	NSYSFND18102D	-	NSYMP1810
1800	1200	400	2	NSYSFNV18	NSYSFNC124	NSYBPN1812	NSY2SPN184	NSYSFND18122D	NSYSFND18122DT	NSYMP1812
1800	1200	500	2	NSYSFNV18	NSYSFNC125	NSYBPN1812	NSY2SPN185	NSYSFND18122D	NSYSFND18122DT	NSYMP1812
1800	1200	600	2	NSYSFNV18	NSYSFNC126	NSYBPN1812	NSY2SPN186	NSYSFND18122D	NSYSFND18122DT	NSYMP1812
1800	1200	800	2	NSYSFNV18	NSYSFNC128	NSYBPN1812	NSY2SPN188	NSYSFND18122D	NSYSFND18122DT	NSYMP1812

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PanelSeT SFN Kit: Modular Enclosures

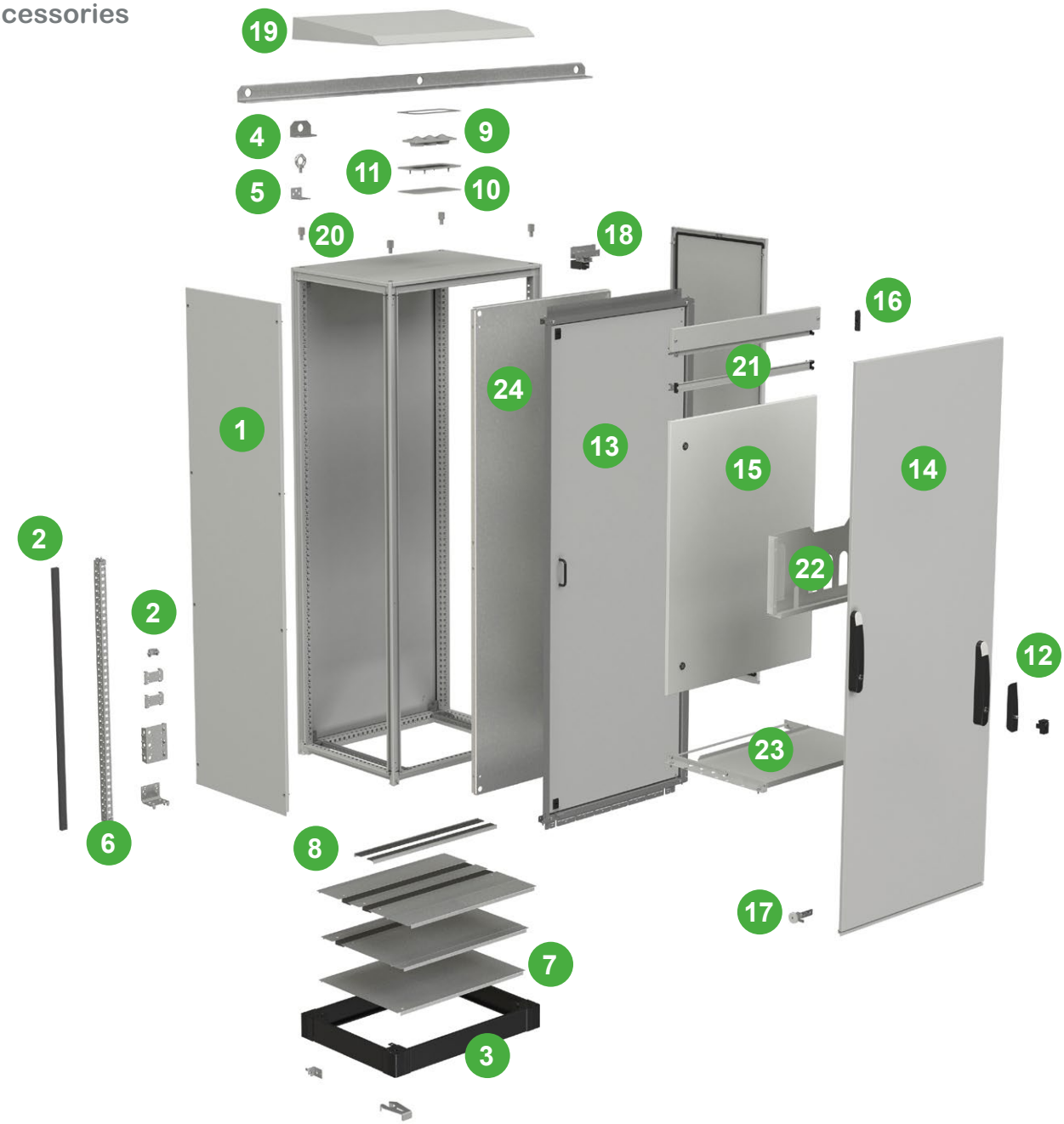
Selection Table

Dimensions (mm)				Vertical uprights	Bottom frame and top frame with roof	Panels		Doors		Mounting plate
								 (Hinges, locking bar catches and handle with 5-mm double-bar insert included.)	 (Securit® glass, hinges, locking bar catches and handle with 5-mm double-bar insert included.)	
(A) Height	(B) Width	(C) Depth	Doors	Standard	Frames	Rear panel	Side panel	Plain	Transparent	Standard
2000	300	500	1	NSYSFNV20	NSYSFNC35	NSYBPN203	NSY2SPN205	NSYSFND203	-	-
2000	300	600	1	NSYSFNV20	NSYSFNC36	NSYBPN203	NSY2SPN206	NSYSFND203	-	-
2000	300	800	1	NSYSFNV20	NSYSFNC38	NSYBPN203	NSY2SPN208	NSYSFND203	-	-
2000	400	400	1	NSYSFNV20	NSYSFNC44	NSYBPN204	NSY2SPN204	NSYSFND204	-	NSYMP204
2000	400	500	1	NSYSFNV20	NSYSFNC45	NSYBPN204	NSY2SPN205	NSYSFND204	-	NSYMP204
2000	400	600	1	NSYSFNV20	NSYSFNC46	NSYBPN204	NSY2SPN206	NSYSFND204	-	NSYMP204
2000	400	800	1	NSYSFNV20	NSYSFNC48	NSYBPN204	NSY2SPN208	NSYSFND204	-	NSYMP204
2000	600	400	1	NSYSFNV20	NSYSFNC64	NSYBPN206	NSY2SPN204	NSYSFND206	NSYSFND206T	NSYMP206
2000	600	500	1	NSYSFNV20	NSYSFNC65	NSYBPN206	NSY2SPN205	NSYSFND206	NSYSFND206T	NSYMP206
2000	600	600	1	NSYSFNV20	NSYSFNC66	NSYBPN206	NSY2SPN206	NSYSFND206	NSYSFND206T	NSYMP206
2000	600	800	1	NSYSFNV20	NSYSFNC68	NSYBPN206	NSY2SPN208	NSYSFND206	NSYSFND206T	NSYMP206
2000	600	1000	1	NSYSFNV20	NSYSFNC610	NSYBPN206	NSY2SPN2010	NSYSFND206	NSYSFND206T	NSYMP206
2000	600	1000	2	NSYSFNV20	NSYSFNC610	NSYBPN206	NSY2SPN2010	NSYSFND2062D	-	NSYMP206
2000	800	400	1	NSYSFNV20	NSYSFNC84	NSYBPN208	NSY2SPN204	NSYSFND208	NSYSFND208T	NSYMP208
2000	800	500	1	NSYSFNV20	NSYSFNC85	NSYBPN208	NSY2SPN205	NSYSFND208	NSYSFND208T	NSYMP208
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2000	1000	600	2	NSYSFNV20	NSYSFNC106	NSYBPN2010	NSY2SPN206	NSYSFND20102D	-	NSYMP2010
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2000	1200	800	2	NSYSFNV20	NSYSFNC128	NSYBPN2012	NSY2SPN208	NSYSFND20122D	NSYSFND20122DT	NSYMP2012
2000	1600	400	2	NSYSFNV20	NSYSFNC164	NSYBPN2016	NSY2SPN204	NSYSFND20162D	-	NSYMP2016
2000	1600	500	2	NSYSFNV20	NSYSFNC165	NSYBPN2016	NSY2SPN205	NSYSFND20162D	-	NSYMP2016
2000	1600	600	2	NSYSFNV20	NSYSFNC166	NSYBPN2016	NSY2SPN206	NSYSFND20162D	-	NSYMP2016
2200	400	400	1	NSYSFNV22	NSYSFNC44	NSYBPN224	NSY2SPN224	NSYSFND224	-	NSYMP224
2200	400	500	1	NSYSFNV22	NSYSFNC45	NSYBPN224	NSY2SPN225	NSYSFND224	-	NSYMP224
2200	400	600	1	NSYSFNV22	NSYSFNC46	NSYBPN224	NSY2SPN226	NSYSFND224	-	NSYMP224
2200	400	800	1	NSYSFNV22	NSYSFNC48	NSYBPN224	NSY2SPN228	NSYSFND224	-	NSYMP224
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2200	600	500	1	NSYSFNV22	NSYSFNC65	NSYBPN226	NSY2SPN225	NSYSFND226	NSYSFND226T	NSYMP226
2200	600	600	1	NSYSFNV22	NSYSFNC66	NSYBPN226	NSY2SPN226	NSYSFND226	NSYSFND226T	NSYMP226
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2200	800	800	1	NSYSFNV22	NSYSFNC88	NSYBPN228	NSY2SPN228	NSYSFND228	NSYSFND228T	NSYMP228
2200	1000	400	1	NSYSFNV22	NSYSFNC104	NSYBPN2210	NSY2SPN224	NSYSFND2210	NSYSFND2210T	NSYMP2210
2200	1000	500	1	NSYSFNV22	NSYSFNC105	NSYBPN2210	NSY2SPN225	NSYSFND2210	NSYSFND2210T	NSYMP2210
2200	1000	600	1	NSYSFNV22	NSYSFNC106	NSYBPN2210	NSY2SPN226	NSYSFND2210	NSYSFND2210T	NSYMP2210
2200	1000	800	1	NSYSFNV22	NSYSFNC108	NSYBPN2210	NSY2SPN228	NSYSFND2210	NSYSFND2210T	NSYMP2210
2200	1200	400	2	NSYSFNV22	NSYSFNC124	NSYBPN2212	NSY2SPN224	NSYSFND22122D	NSYSFND22122DT	NSYMP2212
2200	1200	500	2	NSYSFNV22	NSYSFNC125	NSYBPN2212	NSY2SPN225	NSYSFND22122D	NSYSFND22122DT	NSYMP2212
2200	1200	600	2	NSYSFNV22	NSYSFNC126	NSYBPN2212	NSY2SPN226	NSYSFND22122D	NSYSFND22122DT	NSYMP2212
2200	1200	800	2	NSYSFNV22	NSYSFNC128	NSYBPN2212	NSY2SPN228	NSYSFND22122D	NSYSFND22122DT	NSYMP2212

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PanelSeT SFN: Modular Enclosures

Accessories

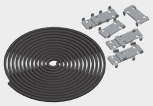


Fixing and Composition Accessories

1 

Fixing panels: side and partition

See details p. 517

2 

Coupling kits and accessories

See details p. 520

3 

Plinths and floor accessories

See details p. 532

4 

Lifting systems: eyebolts, brackets and bars

See details p. 524

5 

Wall fixing support

See details p. 528

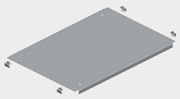
6 

Vertical uprights

See details p. 491

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Cabling Accessories

7

Gland plates: plain, 1 entry, 2 entries
See details p. 561

8

Cables entry gaskets and sealing gaskets
See details p. 563

9

Membranes
See details p. 554

10

Entry plates and adapter for entry plates
See details p. 546

11

Flexicable
See details p. 552

Door Accessories

12

Inserts, keys, locks and handles
See details p. 577

13

Internal door
See details p. 570

14

Side door
See details p. 570

15

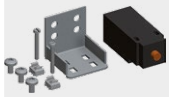
Partial door
See details p. 571

16

Hinges
See details p. 580

17

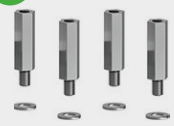
Door-centering caster
See details p. 583

18

Door switch
See details p. 581

Other Accessories

19

Canopy
See details p. 525

20

Airing elevators for roof
See details p. 591

21

Intermediate crossbar
See details p. 582

22

Document pocket
See details p. 582

23

Support tray
See details p. 582

24

Mounting plate
See details p. 480

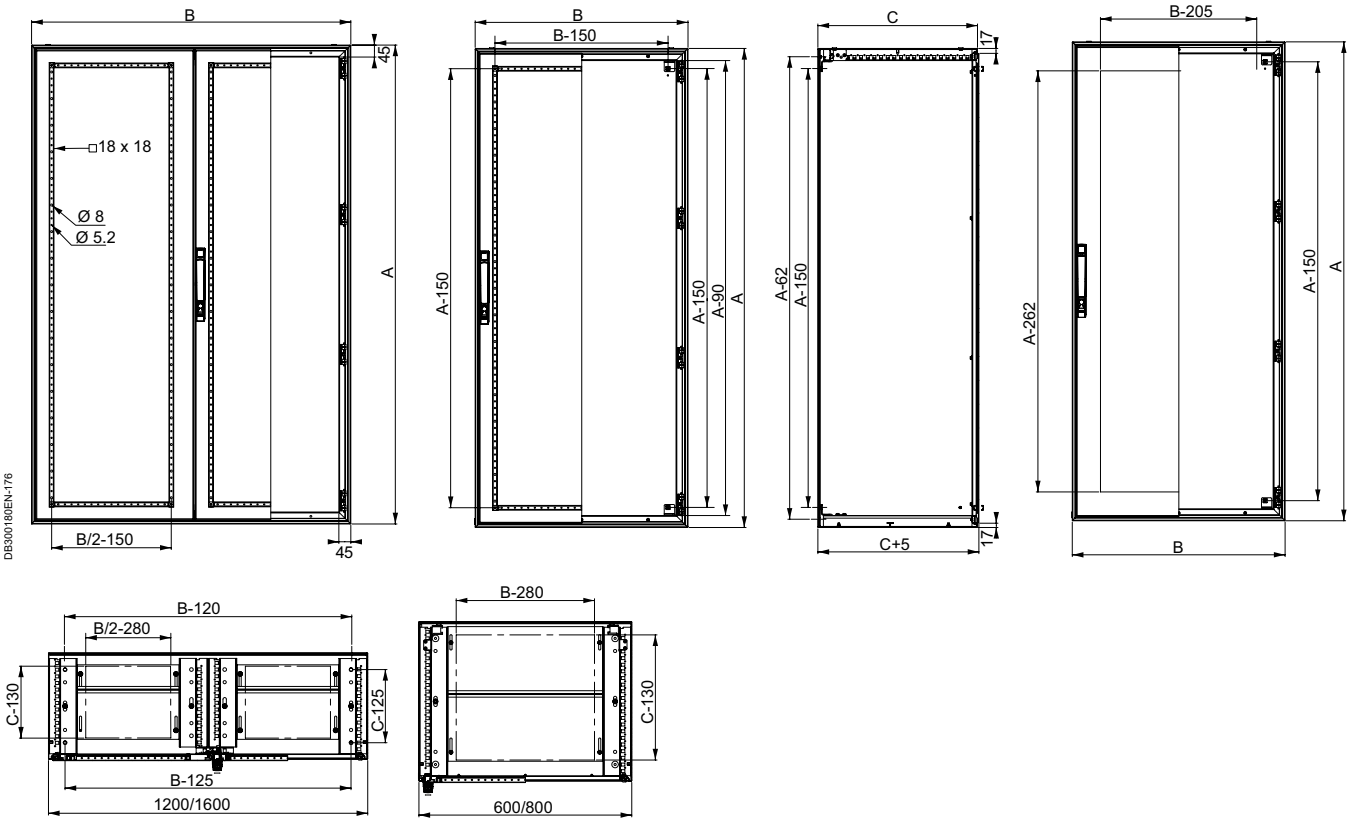
> For more information consult the Accessories chapter **page 472**

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Panel**SeT** SM: Compact Enclosures

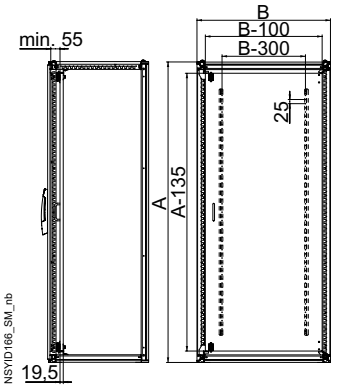
Dimensions

SM



Models with a Width of 1200 mm
without Top/Bottom Adjustment Rails

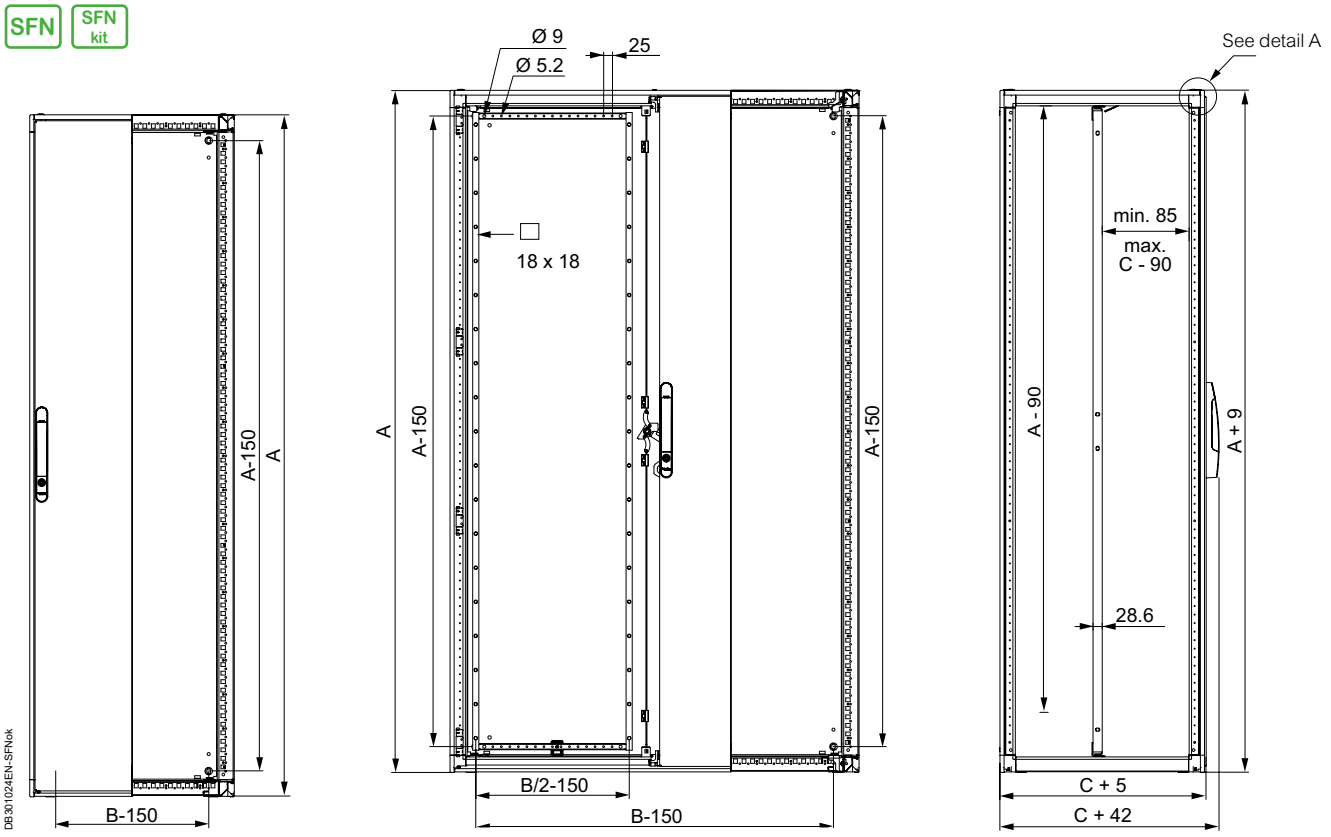
Internal Door

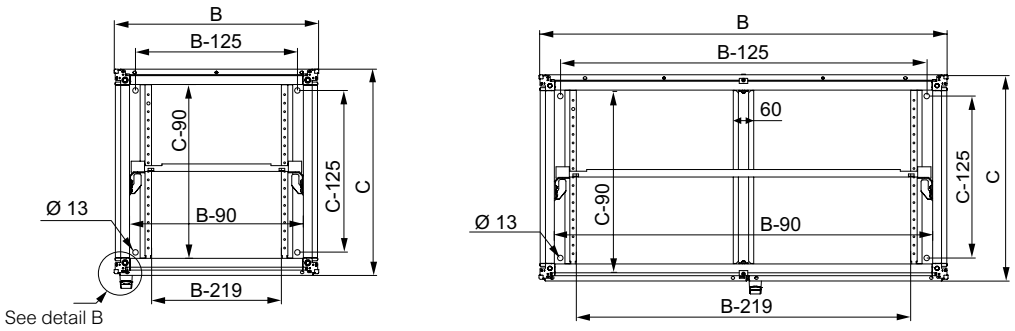


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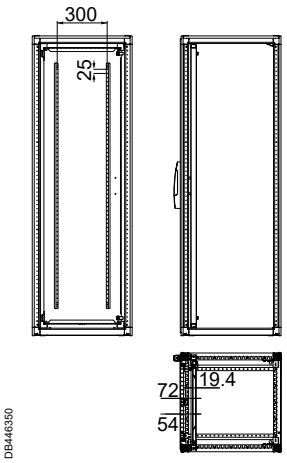
Dimensions

SFN SFN kit

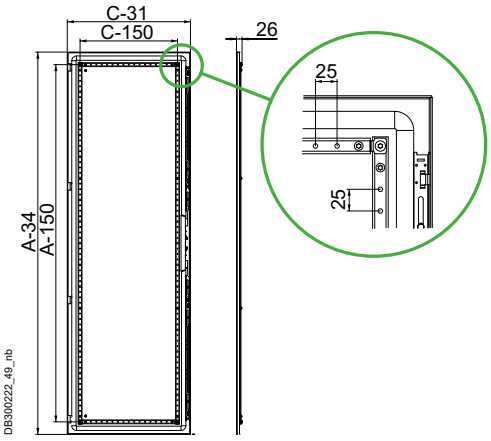




Internal door



Side Door



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Panel**SeT** Stainless-Steel Enclosures

Stainless-Steel Industrial Boxes



Stainless-Steel Wall-Mounted Enclosures



Stainless-Steel Floor-Standing Enclosures





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Stainless-Steel Wall-Mounted Enclosures	**98**
Stainless-Steel Floor-Standing Enclosures	**108**

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Stainless-Steel Enclosures Introduction



Why Use Stainless-Steel Enclosure

Chemical, oil, and food & beverage industries, among others, are particularly demanding in terms of hygiene and resistance to corrosion.
Our stainless-steel offer has been created to meet the constraints of these demanding environments.

Selecting the Right Stainless-Steel Composition

The following table shows the percentages of the main alloy elements that make up stainless-steels. The resistance of the material to aggressive agents in the environment depends mainly on these alloys.

Choosing the Right Composition

Stainless-steel type		Chemical composition (%)			
AISI grade	N. Europe	Carbon	Chromium	Nickel	Molybdenum
304L	1.4307	< 0.03	17 - 19	8 - 10	0
316L	1.4404	< 0.03	17 - 19	10 - 13	2 - 2.25



AISI 304L Stainless-Steel

This is the most commonly used type in the food and beverage industry because of its greater resistance to corrosion and ease of cleaning.

- Improved prevention against corrosion, especially in the presence of organic acids.
- Greater resistance to the effects of nitrous gas in the presence of condensed water and in most aggressive environments.



AISI 316L Stainless-Steel

It is recommended in salty or chlorinated environments because of its very high resistance to corrosion created by molybdenum.

- Improved resistance to corrosion.
- Particularly well adapted to environments with acidity, bromine and saline halides or very corrosive additives and solvents.

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Stainless-Steel Enclosures Introduction

Selecting the Finish to Enhance Stainless-Steel Properties

Three Solutions for Protection Against Aggressive Substances

Surface condition plays an important role in the fight against bacteria. The lower the roughness, the fewer bacteria become incrusted. Reduced roughness means fewer bacteria, less adhesion, and a finish that's impeccable. The choice of finish determines the appearance of the enclosures that matches the environment of other machines and equipment.



Solution 1: Scotch-Brite® Brushing (by Default)

Method:

- Use of brushing/polishing process as defined by the ASTM (American Society for Testing and Material)

Result:

- Reduced surface roughness (Ra ≤ 0.8 µm)
- Improved characteristics against polluting elements

Typical Application:

- Standard applications
- Very commonly used in chemical as well as food and beverage industries



Solution 2: Micro-Beading (on Request)

Method:

- High-speed bombardment of the surface with tiny ceramic balls which largely repairs cracks caused by lamination process

Result:

- Even surface with a silky-smooth appearance (hardly no scratches and burrs)
- Reduced surface roughness (Ra ≈ 0.8 µm)
- Increased hardness
- Reduced material adhesion
- Facilitated disinfection

Typical Application:

- Pharmaceutical and food and beverage industries



Solution 3: Protective Painting (on Request)

Method:

- Application of a protective coat of paint to the enclosure

Result:

- Compared to previous finish, improved protection against corrosion (aggressive substances, external pollution) and projections of metal particles

Typical Application:

- Marine, seaside, off-shore

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Panel**SeT** Stainless-Steel Enclosures

Stainless-Steel Industrial Boxes

Panel**SeT** SBX

PB503675_66_nb



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Panel**SeT** SBX

Introduction	**90**
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Dimensions	**96**

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Stainless-Steel Industrial Boxes

Panel**SeT** SBX

Introduction

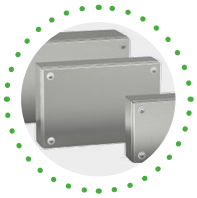


This enclosure is ready to deliver the required protection in the industry's most challenging applications.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

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Stainless-Steel Industrial Boxes
PanelSeT SBX
Introduction



Diverse Range for Selection
- 6 sizes
- 80 mm and 120 mm in depth



Sturdy Enclosure with High Ingress Protection
- Thickness of 1.2 mm
- Mechanical protection rating up to IK10
- Ingress protection rating up to IP66



Added-Value for Your Work
- Quality and aesthetics
- Consistent with the dimensions of steel boxes (PanelSeT SBM)
- Mounting with versatile external brackets
- Certification (on request): UL, Veritas and BVM



Intuitive Ergonomics
- Cover opening and accessory mounting with a simple screwdriver



Customized Cut-Outs Service
- Enclosure delivered with cut-outs so you can focus on your added-value work
- Cut-outs made with an industrial laser machine for a improved result, burr-free, with high accuracy and minimal machining tolerances
- Scotch-Brite®-brushed
- External surfaces with no scratches

For more information, see **Customization Services** page 12.

This range can be configured according to your needs
3 different services available:

Time Saving

Improved Aesthetics

High Quality Cut-Outs

For more information, see **Customization Services** page 12.

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Panel**SeT** SBX

Characteristics

Characteristics	PanelSeT SBX Flat box
	
	Box with plain faces Single-piece body (rectangular structure). Front design incorporating folded gutters. Flat rear. 2 drilled profiles for installing mounting plates and DIN rails, with mounting centers of 12.5 mm. Equipped with 4 half-turn thread screws to maximize maximum watertightness. Polyurethane sealing gasket. Earthing connection mandatory for all boxes: equipped with an M6 x 10 mm earthing stud welded on the cover, to be linked with the body for equipotential connection. Earthing braid to be ordered separately (Ø 6.4 mm terminal).
Material	AISI 304L stainless-steel, thickness of 1.2 mm.
Finish	Scotch-Brite® brushed.
Ingress protection rating	IP66 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Compliance with standards	IEC 62208, RoHS and REACH directives.
Certifications	• UL (cULus), BV, BVM • Rating according UL50E: Types 4, 4X and 13
Installation	**Indoor installation** Direct wall-mounting (4 x Ø 10 mm holes with sealing plugs to maintain the IP rating) or with the help of fixing lugs installed from the outside (to be ordered separately, see the specific accessory pages). Distance between mounting holes enables the installation of the box in the same locations as many existing enclosures. **Outdoor installation** Compliant with IEC 62208 regarding type tests specified in §9.12 resistance to ultra-violet (UV) radiation and §9.13 resistance to corrosion. It is always advisable to place the box under shelter to avoid water stagnation on the upper part of the enclosure.
Maximum load capacity	On the body: 50 kg/m²
Other characteristics	**Vibration constraints** Specific construction of the PanelSeT SBX - Single-piece body. The rear is flat without added parts, which helps ensure compliance with certain vibration constraints. The tests were conducted according to the marine application by Bureau Veritas Marine.

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Stainless-Steel Industrial Boxes

Panel**SeT** SBX

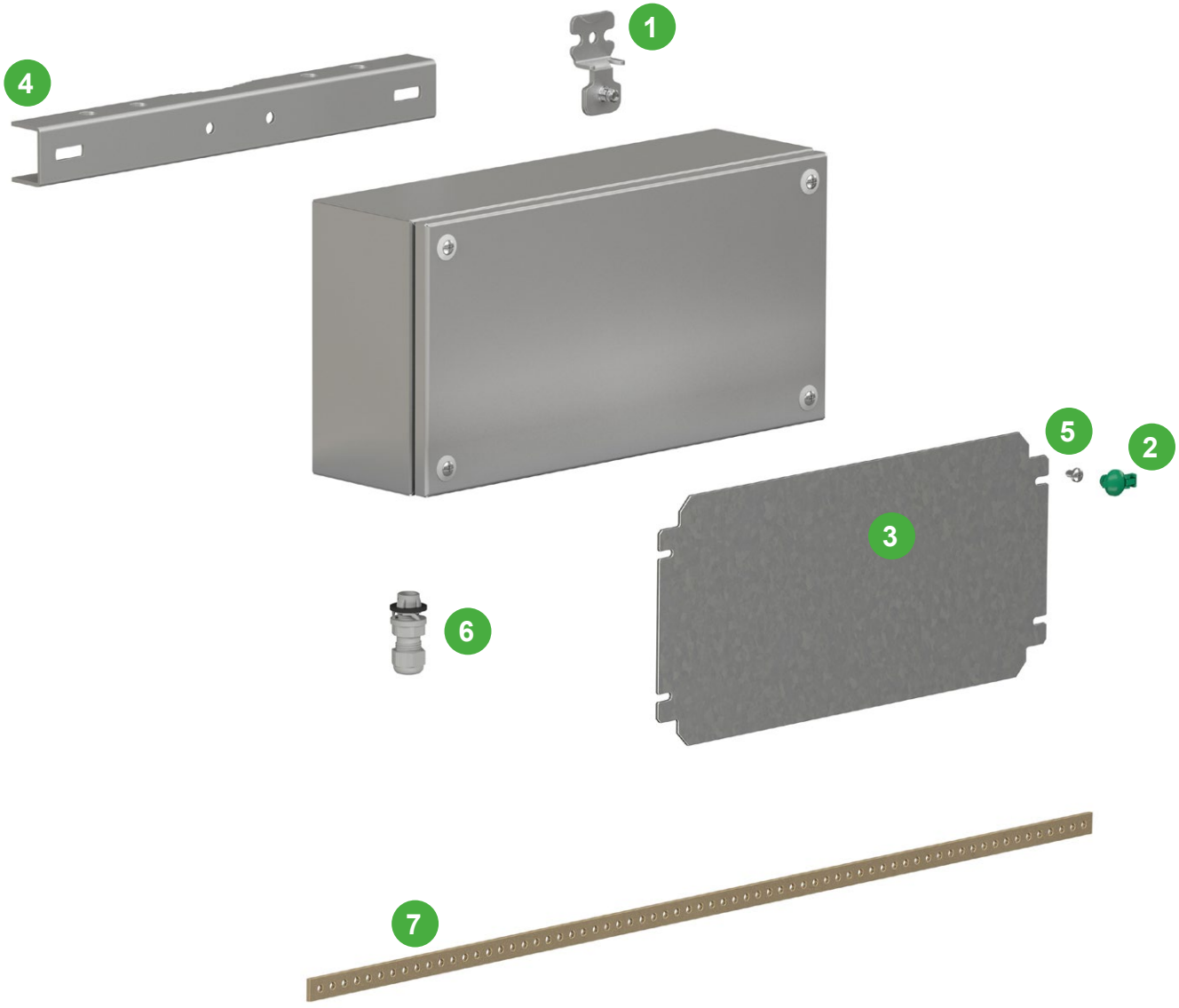
Selection Table

	Box	Mounting plate	DIN rail	Fixing lugs	Sealing kit
					
Dimensions (mm)	Supply: 1 piece	Supply: 1 piece	Supply: 10 pieces	Supply: 4 pieces	Supply: 1 piece
Height / **Width** / **Depth**	**References**	**References**	**References**	**References**	**References**
150 / 150 / 80	**NSYSBX15158**	**NSYMM11SB**	**NSYAMRD15357SB**		
150 / 300 / 80	**NSYSBX15308**	**NSYMM13SB**	**NSYAMRD30357SB**		
200 / 200 / 80	**NSYSBX20208**	**NSYMM22SB**	**NSYAMRD20357SB**	**NSYAEFPFSBX**	**NSYPPSB**
200 / 300 / 80	**NSYSBX20308**	**NSYMM23SB**	**NSYAMRD30357SB**		
200 / 400 / 120	**NSYSBX204012**	**NSYMM24SB**	**NSYAMRD40357SB**		
300 / 300 / 120	**NSYSBX303012**	**NSYMM33SB**	**NSYAMRD30357SB**		

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Panel**SeT** SBX

Accessories



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Fixing Accessories

1



Mounting lugs

See details p. 522

2



Sealing kit

See details p. 591

Mounting Accessories

3



Mounting plates

See details p. 474

4



Symmetrical DIN rails

See details p. 489

5



Self-tapping screws

See details p. 591

Other Accessories

6



Cable glands

See details p. 558

7



Earthing accessories

See details p. 589

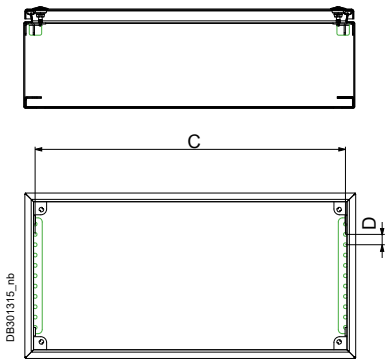
> For more information consult the Accessories chapter **page 472**

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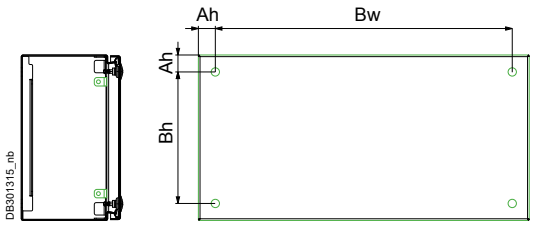
PanelSeT SBX

Dimensions

Section A-A

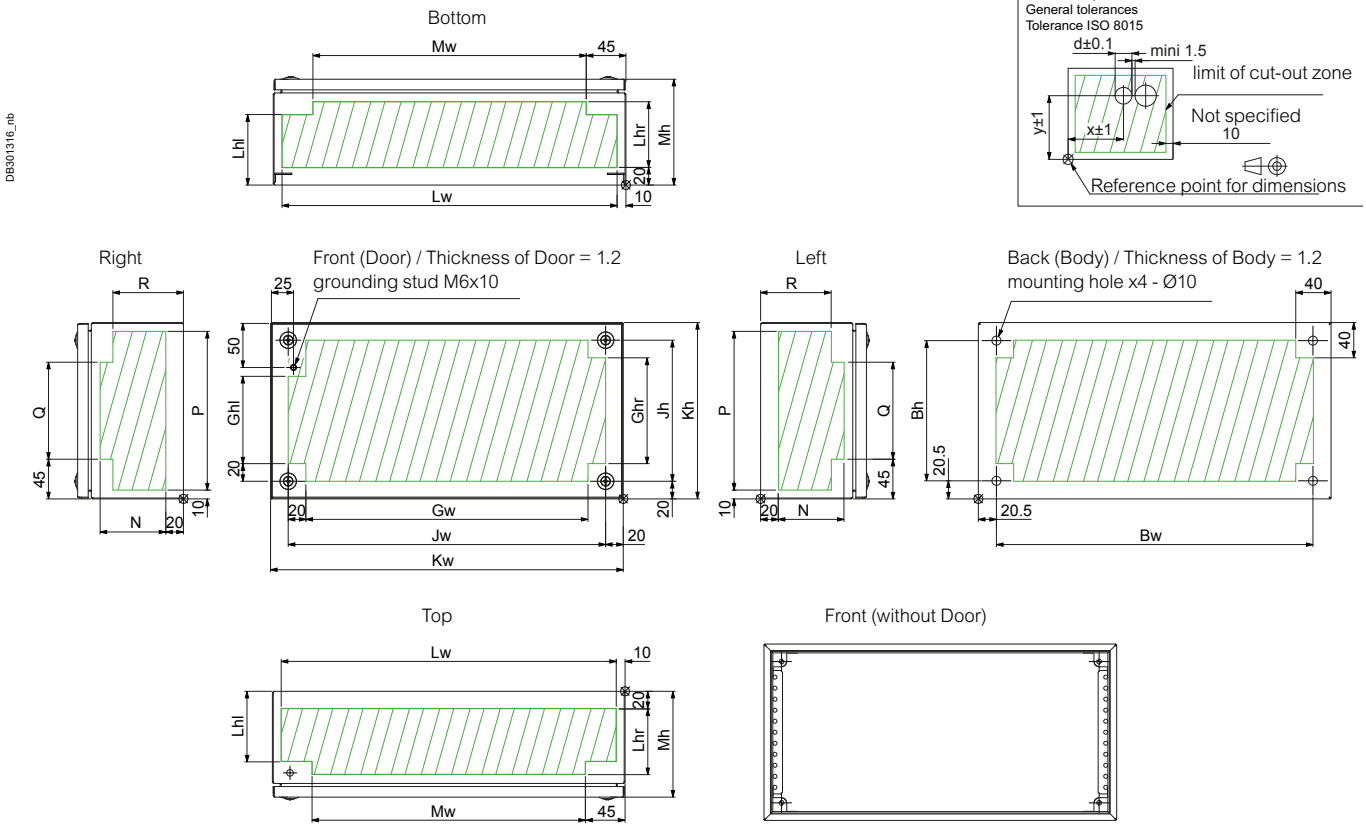


Section B-B



Dimensions (mm)			Sheet thickness (mm)	Box installation (mm)			Mounting (mm)	
Height	Width	Depth		Ah	Bh	Bw	C	D
150	150	80	1.2	20.5	109	109	125	12.5
150	300	80	1.2	20.5	109	259	275	12.5
200	200	80	1.2	20.5	159	159	175	12.5
200	300	80	1.2	20.5	159	259	275	12.5
200	400	120	1.2	20.5	159	359	375	12.5
300	300	120	1.2	20.5	259	259	275	12.5

Cut-Out Zone Limits



Dimensions (mm)			References	Dimensions of permissible cut-out zone (mm)																
Height	Width	Depth		Bh	Bw	Ghr	Ghl	Gw	Jh	Jw	Kh	Kw	Lhl	Lhr	Lw	Mh	Mw	N	P	Q	R
150	150	80	**NSYSBX15158**	109	109	70	49	70	110	110	150	150	40	34.5	130	80	60	34.5	130	60	40
150	300	80	**NSYSBX15308**	109	259	70	49	220	110	260	150	300	40	34.5	280	80	210	34.5	130	60	40
200	200	80	**NSYSBX20208**	159	159	120	99	120	160	160	200	200	40	34.5	180	80	110	34.5	180	110	40
200	300	80	**NSYSBX20308**	159	259	120	99	220	160	260	200	300	40	34.5	280	80	210	34.5	180	110	40
200	400	120	**NSYSBX204012**	159	359	120	99	320	160	360	200	400	80	74.5	380	120	310	74.5	180	110	80
300	300	120	**NSYSBX303012**	259	259	220	199	220	260	260	300	300	80	74.5	280	120	210	74.5	280	210	80

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Panel**SeT** Stainless-Steel Enclosures

Stainless-Steel Wall-Mounted Enclosures

Panel**SeT** S3X

PB500075_40_nb



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Panel**SeT** S3X

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Selection Table	**103**
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Panel**SeT** S3X

Introduction



These enclosures designed specifically for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

This enclosure is ready to deliver the protection you need in the industry's most challenging applications.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.



Material Type and Custom Finish Choices
- Two types of steel: 304L and 316L
- Scotch-Brite® brushed finish offered as standard
- Painted or micro-beaded finish (on request)



Large Range of Accessories
- Stainless-steel accessories: canopy, wall fixing lugs
- Standard accessories: mounting plate, internal door, modular chassis and step slides
- Large selection of locks made of 100% stainless-steel



Enhanced Sealing
- Protection rating of IP66 (1 door) or IP55 (2 doors)
- Sealing polyurethane gasket
- Gutter-shaped front profile
- Three locking points in the double-door version



High Robustness and Durability
High resistance to external mechanical impacts:
- IK10: plain door, IK08: glazed door
- Door reinforcement frame or profile
- Stainless-steel hinges



Time Savings and Easy Assembly
- 304L or 316L stainless-steel wall fixing lugs
- Vertical reinforcement perforated profiles, which make it easier to equip the door
- Reversible door opening to 120°
- Easy installation directly on the machine thanks to the 4 rear drilled holes

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

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Panel**SeT** S3X

Characteristics

Characteristics	NSYS3X●●●●	NSYS3X●●●●T	NSYS3X●●●●H
			
Comment: For dimensions see page 106			
	304L stainless-steel Enclosure with plain door	304L stainless-steel Enclosure with glazed door, Securit® glass, 4 mm thick	316L stainless-steel Enclosure with plain door
Material	AISI 304L		AISI 316L
Finish	Scotch-Brite® brushed		
Thickness	10/10^{e} - 15/10^{e} mm		
Ingress protection rating	• IP66 (1 door) or IP55 (2 doors) according to IEC 60529 • Rating according to UL50E: Types 4,4X and 13 for single-door and Types 1 and 12 for double-door enclosures.		
Mechanical protection rating	IK10 according to IEC 62262	IK08 according to IEC 62262	IK10 according to IEC 62262
Standards and certifications	See technical guide on page 610		
Installation	Suitable for outdoor installation, but consideration of environmental aggressiveness is advised. Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion) It is always advisable to install a canopy to reduce water stagnation on the upper part of the enclosure		
Other characteristics	• Single-piece body (cross-shaped structure) with gutter-shaped front profile • 4 or 6 rear studs for mounting plate fixation • 2 cut-out vertical profiles on the door (from a height of 600 mm), with drill holes with a diameter of 4.25 mm and a pitch of 25 mm for accessory installation • Door reinforcement frame (from a height of 1000 mm), cross-section of 20 mm x 15 mm, with drilled holes with a diameter of 5 mm and a pitch of 25 mm • Standard lock with 3-mm double-bar lock (chrome-plated zamak) • 2 locking points for heights of more than 500 mm or three points for two-door enclosures • Stainless-steel hinges screwed to the body of the enclosure. They make it easier to remove and invert the door. Opening angle: 120° • Maximum load on the door: 50 kg/m² • Polyurethane gasket • M6 x 16 mm screws on the door and on the body, allowing equipotential connection between the earth connections (on request) • 4 holes for fixing to the wall directly or with the help of mounting lugs (sold separately), sealed by sealing plugs		

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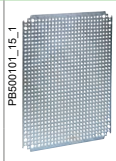
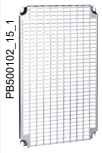
Stainless-Steel Wall-Mounted Enclosures

PanelSeT S3X

Selection Table

External dimensions (mm)					304L stainless-steel		316L stainless-steel
							
Height	Width	Depth	No. of locks	No. of doors	References		
300	200	150	1	1	**NSYS3X3215**	-	**NSYS3X3215H**
300	250	150	1	1	**NSYS3X302515**	-	**NSYS3X302515H**
300	300	150	1	1	**NSYS3X3315**	-	**NSYS3X3315H**
400	300	150	1	1	**NSYS3X4315**	-	**NSYS3X4315H**
400	300	200	1	1	**NSYS3X4320**	**NSYS3X4320T**	**NSYS3X4320H**
400	400	200	1	1	**NSYS3X4420**	-	**NSYS3X4420H**
400	600	200	1	1	**NSYS3X4620**	-	**NSYS3X4620H**
500	400	200	2	1	**NSYS3X5420**	**NSYS3X5420T**	**NSYS3X5420H**
600	400	200	2	1	**NSYS3X6420**	**NSYS3X6420T**	**NSYS3X6420H**
600	600	250	2	1	**NSYS3X6625**	-	**NSYS3X6625H**
600	1000	300	(1)	2	**NSYS3X601030**	-	-
600	1200	300	(1)	2	**NSYS3X601230**	-	-
700	500	250	2	1	**NSYS3X7525**	**NSYS3X7525T**	**NSYS3X7525H**
800	600	250	2	1	**NSYS3X8625**	**NSYS3X8625T**	**NSYS3X8625H**
800	800	300	2	1	**NSYS3X8830**	-	**NSYS3X8830H**
800	1000	300	(1)	2	**NSYS3X801030**	-	-
800	1200	300	(1)	2	**NSYS3X801230**	-	-
1000	800	300	2	1	**NSYS3X10830**	**NSYS3X10830T**	**NSYS3X10830H**
1000	1000	300	(1)	2	**NSYS3X101030**	-	**NSYS3X101030H**
1200	800	300	2	1	**NSYS3X12830**	-	**NSYS3X12830H**
1200	1000	300	(1)	2	**NSYS3X121030**	-	**NSYS3X121030H**

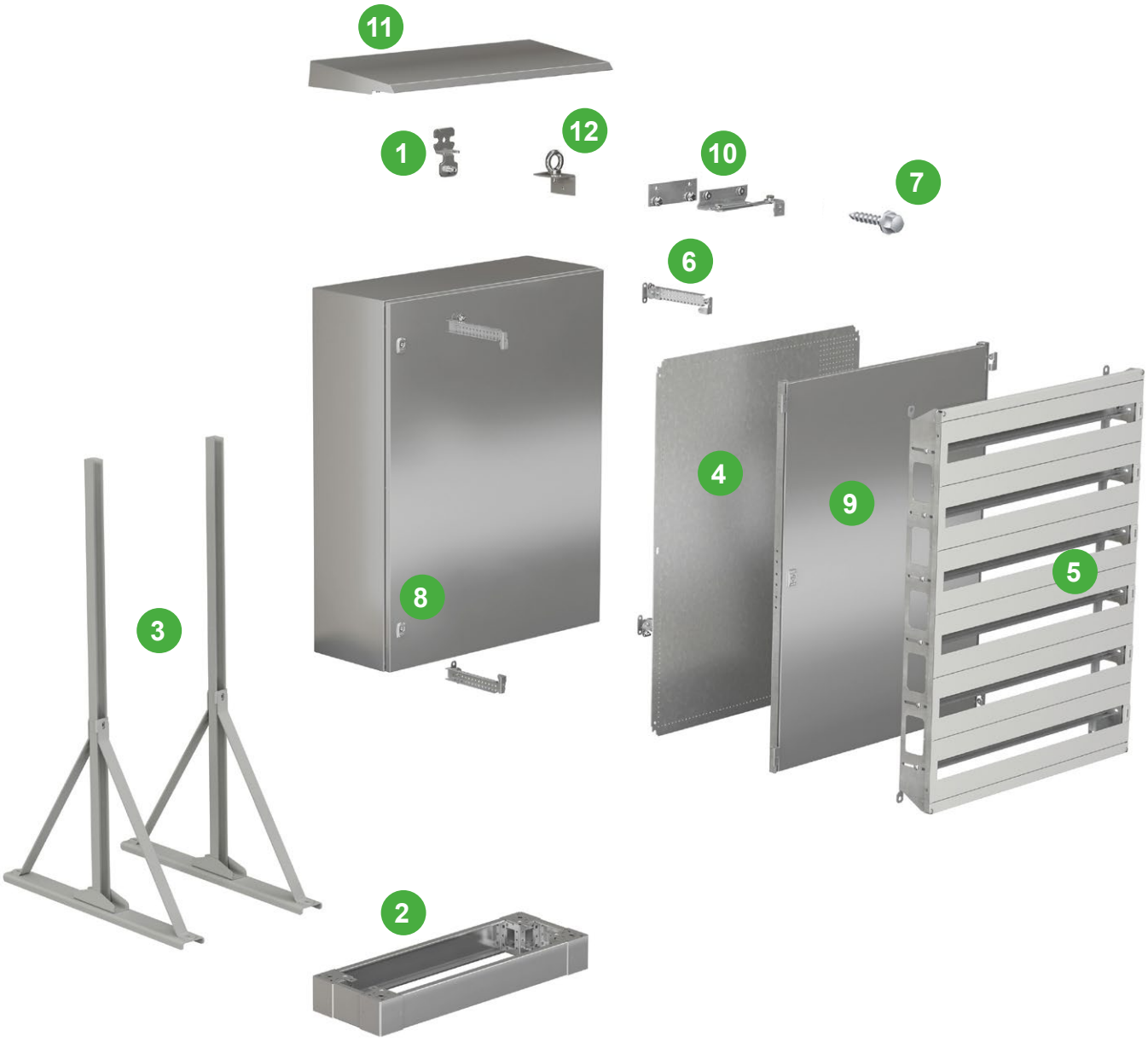
(1) Three-point locking system.

External dimensions				Mounting Plates			Chassis	Step Slides
								
Height (mm)	Width (mm)	Depth (mm)	Number of modules	Plain	Microperforated	Telequick	Modular Chassis	Step slides
300	200	150	-	**NSYMM32**	**NSYMF32**	**NSYMR32**	-	-
300	250	150	-	**NSYMM3025**	-	**NSYMR3025**	-	-
300	300	150	-	**NSYMM33**	**NSYMF33**	**NSYMR33**	-	-
400	300	150	24	**NSYMM43**	**NSYMF43**	**NSYMR43**	**NSYDLM24**	-
400	300	200	24	**NSYMM43**	**NSYMF43**	**NSYMR43**	**NSYDLM24**	**NSYSDCR200**
400	400	200	-	**NSYMM44**	**NSYMF44**	**NSYMR44**	-	**NSYSDCR200**
400	600	200	-	**NSYMM64**	**NSYMF64**	**NSYMR46**	-	**NSYSDCR200**
500	400	200	48	**NSYMM54**	**NSYMF54**	**NSYMR54**	**NSYDLM48**	**NSYSDCR200**
600	400	200	48	**NSYMM64**	**NSYMF64**	**NSYMR64**	**NSYDLM48P**	**NSYSDCR200**
600	600	250	84	**NSYMM66**	**NSYMF66**	**NSYMR66**	**NSYDLM84P**	**NSYSDCR250**
600	1000	300*	-	**NSYMM106**	**NSYMF106**	**NSYMR106**	-	**NSYSDCR300**
600	1200	300*	-	**NSYMM126**	**NSYMF126**	-	-	**NSYSDCR300**
700	500	250	66	**NSYMM75**	**NSYMF75**	**NSYMR75**	**NSYDLM66**	**NSYSDCR250**
700	500	250	88	-	-	-	**NSYDLM88**	-
800	600	250	84	**NSYMM86**	**NSYMF86**	**NSYMR86**	**NSYDLM84**	**NSYSDCR250**
800	600	250	112	-	-	-	**NSYDLM112**	-
800	800	300	-	**NSYMM88**	**NSYMF88**	**NSYMR88**	-	**NSYSDCR300**
800	1000	300(1)	-	**NSYMM108**	**NSYMF108**	**NSYMR108**	-	**NSYSDCR300**
800	1200	300(1)	-	**NSYMM128**	**NSYMF128**	**NSYMR128**	-	**NSYSDCR300**
1000	800	300	234	**NSYMM108**	**NSYMF108**	**NSYMR108**	**NSYDLM240**	**NSYSDCR300**
1000	1000	300	-	**NSYMM1010**	**NSYMF1010**	**NSYMR1010**	-	**NSYSDCR300**
1200	800	300	-	**NSYMM128**	**NSYMF128**	**NSYMR128**	-	**NSYSDCR300**
1200	1000	300	-	**NSYMM1210**	**NSYMF1210**	**NSYMR1210**	-	**NSYSDCR300**

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Panel**SeT** S3X

Accessories



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Fixing and Composition Accessories

1



Mounting lugs

See details p. 522

2



Plinths

See details p. 533

3



Support bracket

See details p. 528

Mounting Accessories

4



Mounting plates plain, microperforated and Telequick

See details p. 475

5



Modular chassis

See details p. 504

6



Step sides

See details p. 512

7

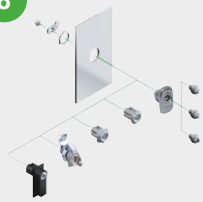


Mounting plate screw

See details p. 516

Door Accessories

8



Inserts, keys, locks and handles

See details p. 572

9



Internal door

See details p. 568

10



Door switch and retainer

See details p. 581

Other Accessories

11



Canopy

See details p. 526

12



Eyebolts

See details p. 524

> For more information consult the Accessories chapter **page 472**

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Panel**SeT** S3X

Dimensions

Fig. 1

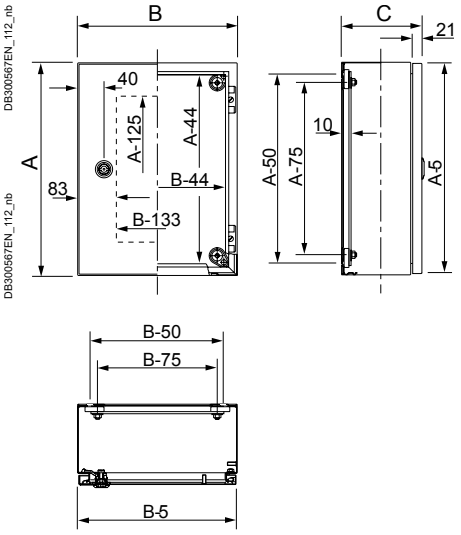
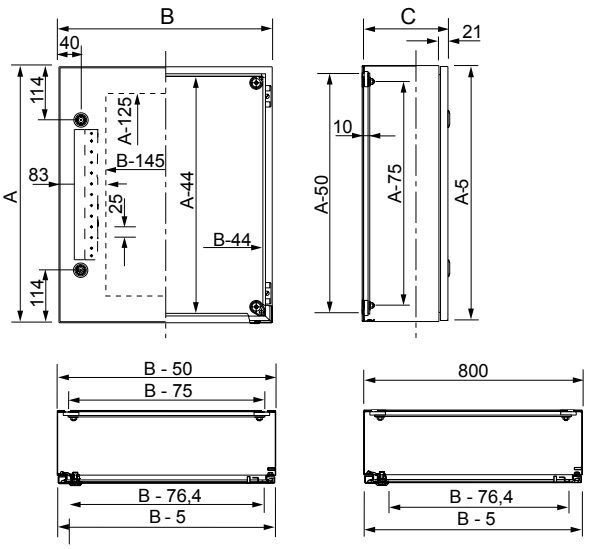


Fig. 2



External dimensions (mm)			Fig.
A	B	C	
300	200	150	1
300	250	150	1
300	300	150	1
400	300	150	1
400	300	200	1
400	400	200	1
400	600	200	1
500	400	200	2 (without door reinforcement)
600	400	200	2
600	600	250	2
700	500	250	2
800	600	250	2
800	800	300	2

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Fig. 3

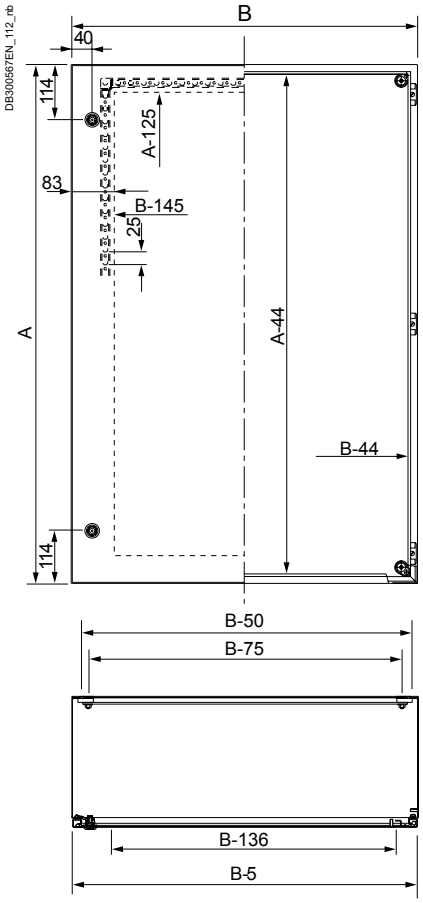
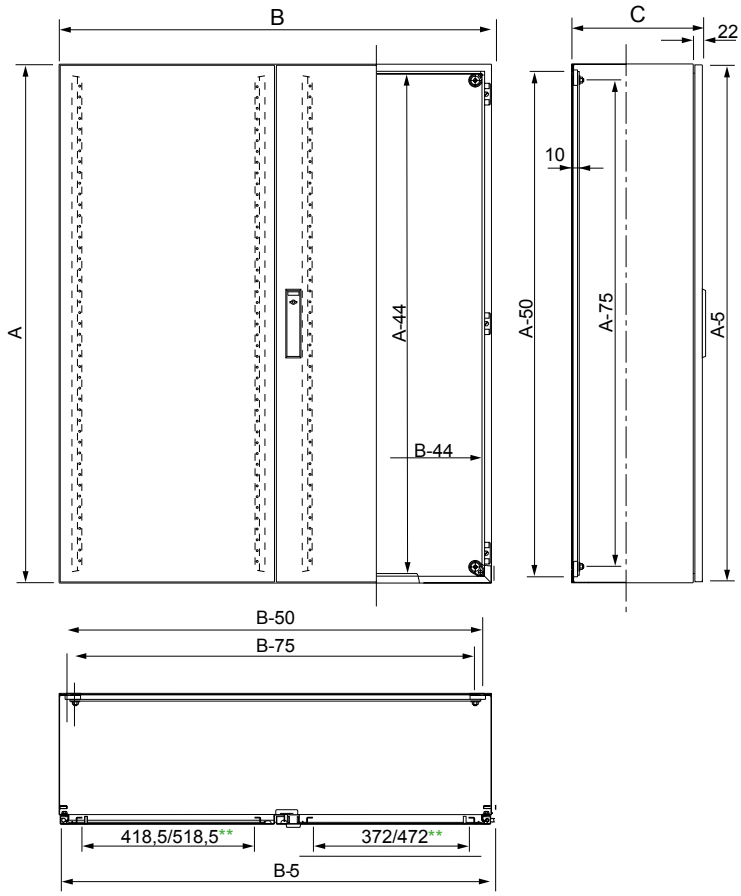


Fig. 4



** For glazed door.

External dimensions (mm)			Fig.
A	B	C	
1000	800	300	3
1000	1000	300	4
1200	800	300	3
1200	1000	300	4

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** Stainless-Steel Enclosures

Stainless-Steel Floor-Standing Enclosures

Panel**SeT** SMX: Monobloc Enclosures

PB500138



Panel**SeT** SFX: Modular Enclosures

PB502731_22_nb



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** SMX: Monobloc Enclosures

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Panel**SeT** SFX: Modular Enclosures

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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** SMX and SFX

Introduction



These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

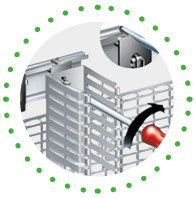
Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Stainless-Steel Floor Standing Enclosures
PanelSeT SMX and SFX
Introduction



Material Type and Custom Finish Choices
- AISI 304L as standard in PanelSeT SMX and SFX
- AISI 316L as standard in PanelSeT SMX and on request in PanelSeT SFX
- Finish: Scotch-Brite® brushed (standard), micro-beaded (on request), painted (on request)



Time Savings and Easy Assembly
- Complete range of accessories for installation, cable management, etc
- 304L or 316L stainless-steel plinth: easy cable entry (PanelSeT SFX and SMX)
- Reversible door opening to 120°
- Adjustment rails perforated with a pitch of 25 mm
- Perforated reinforcement frame allowing accessories to be mounted on the door



Enhanced Sealing
- Protection rating against dust and water IP66 or IP55, depending model
- 3-point locking system
- Canopy (optional): helps protect the door sealing, helps guarantee correct water drainage, no stagnation on the top
- Single-piece cable gland plate with polyurethane gasket



Compatible with the Other Ranges
- Compatible with mounting plates and certain accessories of PanelSeT SFN and SM, providing seamless interchangeability and enhanced versatility



Hygienic Properties
- The high quality of the standard finish enables easy maintenance while limiting contamination
- The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm in height, make it easier to clean under the enclosures



High Robustness and Durability
- High resistance to external mechanical impacts: IK10
- 3 hinges made entirely from stainless-steel
- Door reinforcement frame



Resistance to Corrosion
- Highly resistant to corrosion. 304L and 316L stainless-steels provide a good solution for applications in demanding environments

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** SMX and SFX

Characteristics

Characteristics	PanelSeT SMX	PanelSeT SFX
	 PB500138	 PB502731_22_nb
	• Stainless-steel floor-standing enclosure, folded and welded • Single and double front door, with reinforcement frame	• Enclosure made up of a structure, consisting of top and bottom, rear panel and vertical profiles • Single and double front door, with reinforcement frame
Material	304L stainless-steel, 316L stainless-steel	304L stainless-steel, 316L version (on request)
Finish	Scotch-Brite® brushed finish Micro-beaded and painted finishes (on request)	
Thickness	15/10e mm	Consult us
Ingress protection rating	IP66 (single-door enclosure) according to IEC 60529	
Mechanical protection rating	IK10 according to IEC 62262	
Standards and certifications	See technical guides page 610	
Installation	Suitable for outdoor installation, but consideration of environmental aggressiveness is advised. Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). **Comment:** SMX and SFX units do not require a canopy for outdoor use.	
Door	Plain front door. Opening to left or right to 120° with reinforcement frame installed: • 3 stainless-steel hinges • 3-point locking system with handle made from painted zamak, 5-mm double-bar • Maximum load capacity: 50 kg	
Supply	• Welded compact body • Single-piece cable gland plate with sealing gasket • Welded mounting plate support brackets	• Welded rear panel • 4 mounting plate-supporting brackets • Single-piece cable gland plate with sealing gasket

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Stainless-Steel Floor Standing Enclosures
PanelSeT SMX and SFX
Selection Table

				SMX		SFX
				 PB500138	 NSYSMX18840H	 PB502731_22_nb
Comment: For dimensions see page 118						
External dimensions (mm)						
Height	**Width**	**Depth**	**Number of front doors**	**304 L**	**316L**	**Stainless-steel suitable enclosure**
1400	1000	300	2	**NSYSMX141030**	-	-
1600	800	400	1	**NSYSMX16840**	-	-
1800	600	400	1	**NSYSMX18640**	-	**NSYSFX18640**
1800	800	400	1	**NSYSMX18840**	**NSYSMX18840H**	**NSYSFX18840**
1800	1200	400	2	**NSYSMX181240**	-	**NSYSFX181240**
1800	1600	400	2	**NSYSMX181640**	**NSYSMX181640H**	-
2000	600	500	1	-	-	**NSYSFX20650**
2000	800	400	1	-	-	**NSYSFX20840**
2000	800	500	1	**NSYSMX20850**	-	-
2000	800	600	1	-	-	**NSYSFX20860**
2000	1000	400	2	**NSYSMX201040**	**NSYSMX201040H**	-
2000	1000	600	2	-	-	**NSYSFX201060**
2000	1200	500	2	**NSYSMX201250**	**NSYSMX201250H**	-
2000	1200	600	2	-	-	**NSYSFX201260**
2000	1600	600	2	**NSYSMX201660**	**NSYSMX201660H**	-

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PanelSeT SMX: Monobloc Enclosures

Accessories



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fixing and Composition Accessories

1



Wall fixing lugs

See details p. 522

2



Plinths

See details p. 533

Mouting Accessories

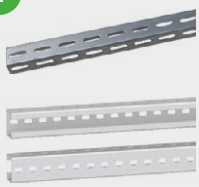
3



Plain mounting plates

See details p. 480

4



Vertical uprights

See details p. 491

Other Accessories

5



Canopy

See details p. 526

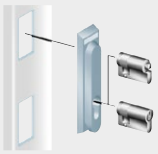
6



Eyebolts

See details p. 524

7



Locking options

See details p. 579

8



Hygienic feet

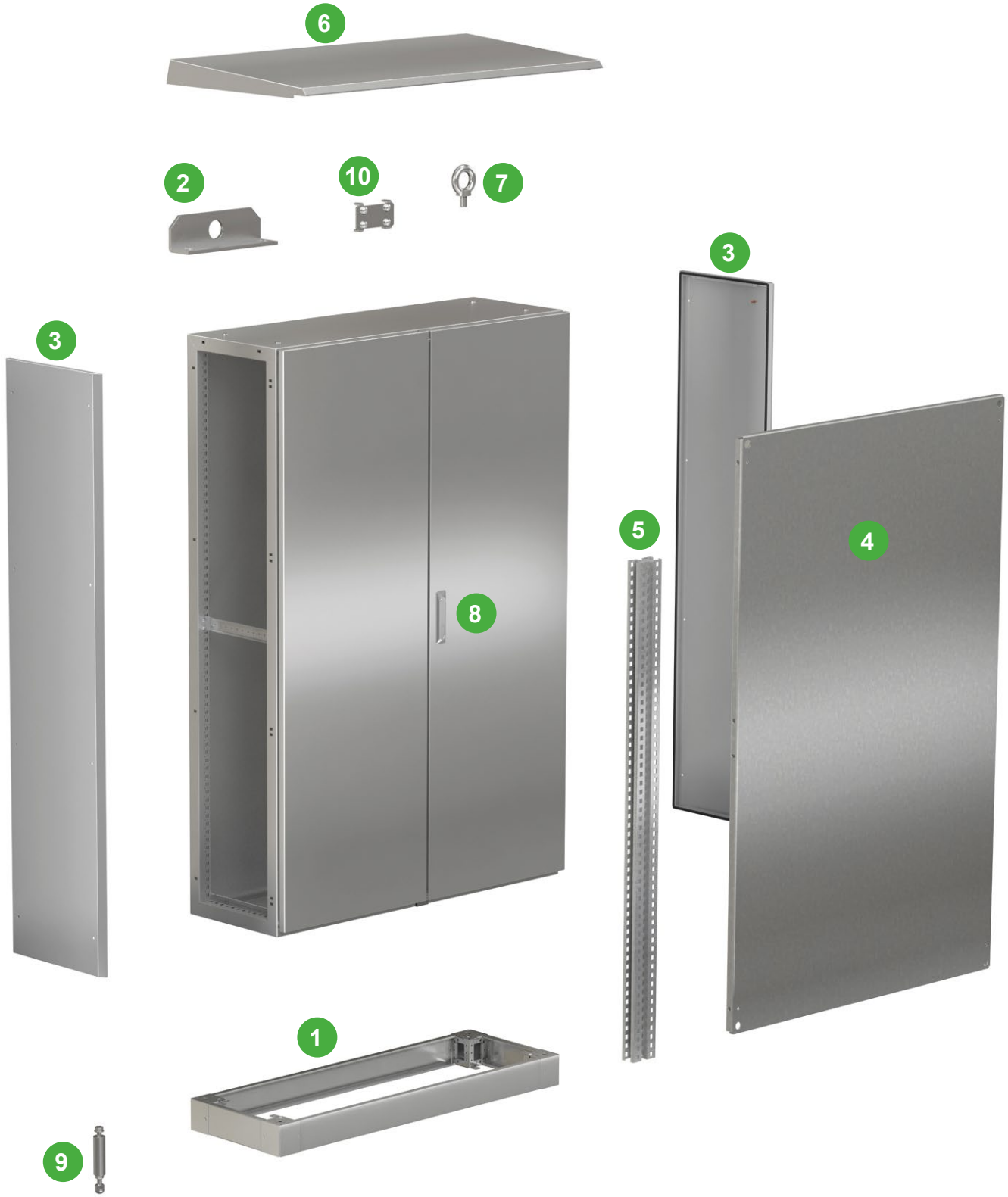
See details p. 539

> For more information consult the Accessories chapter **page 472**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** SFX: Modular Enclosures

Accessories



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fixing Accessories

1



Plinths

See details p. 533

2



Lifting brackets

See details p. 524

Mounting Accessories

3



Side panels

See details p. 517

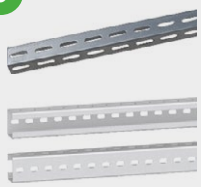
4



Plain mounting plates

See details p. 480

5



Vertical uprights

See details p. 491

Other Accessories

6



Canopy

See details p. 526

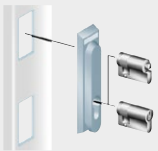
7



Eyebolts

See details p. 524

8



Locking options

See details p. 579

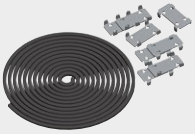
9



Hygienic feet

See details p. 539

10



Coupling kit

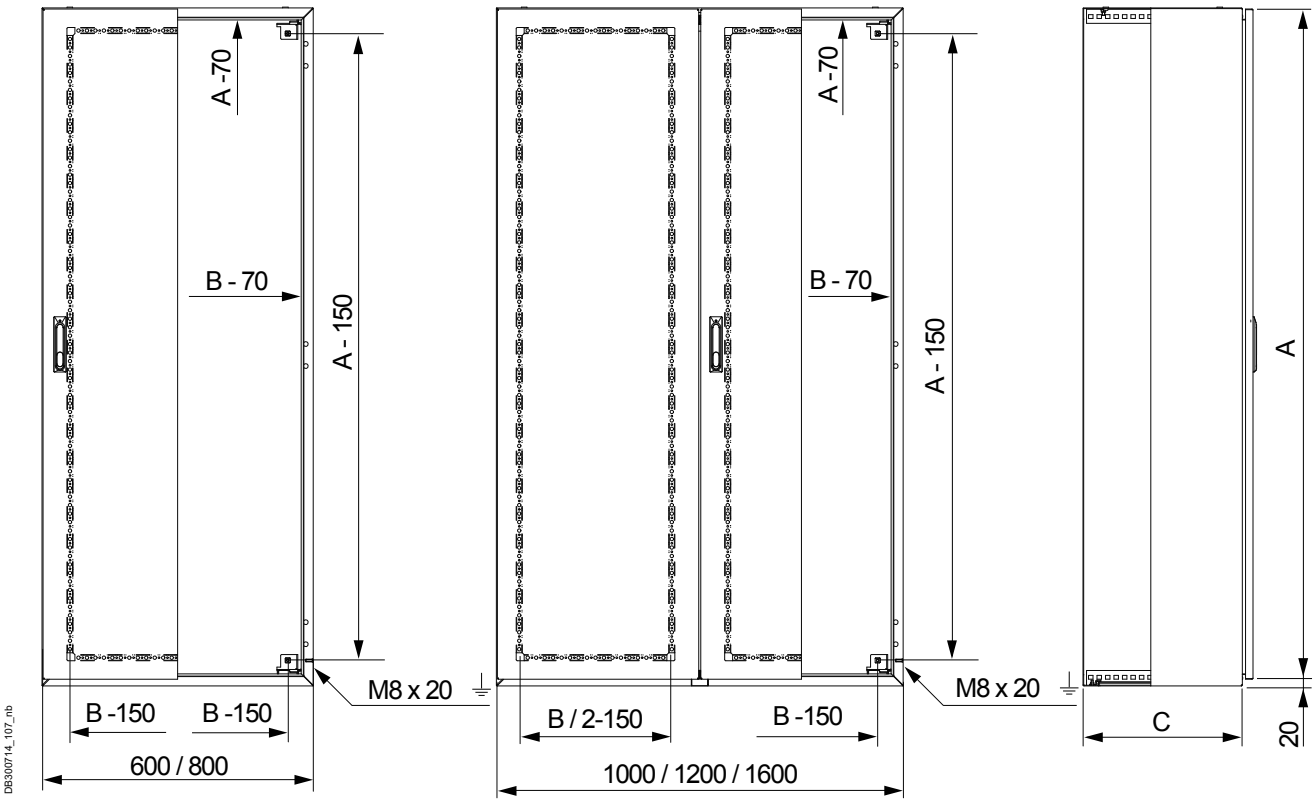
See details p. 520

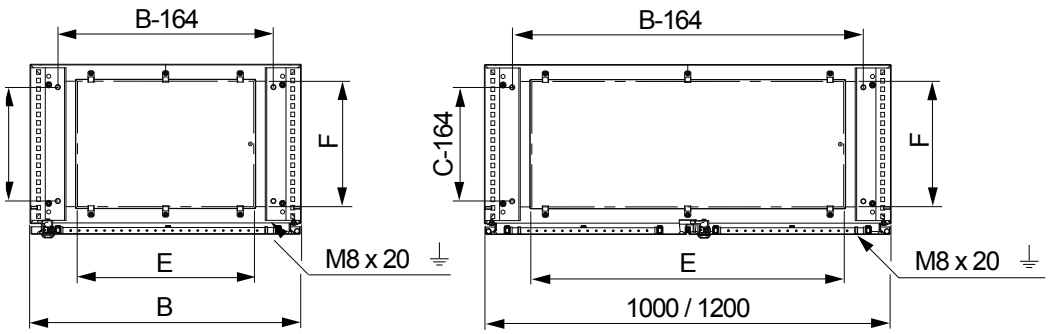
> For more information consult the Accessories chapter **page 472**

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PanelSeT SMX: Monobloc Enclosures

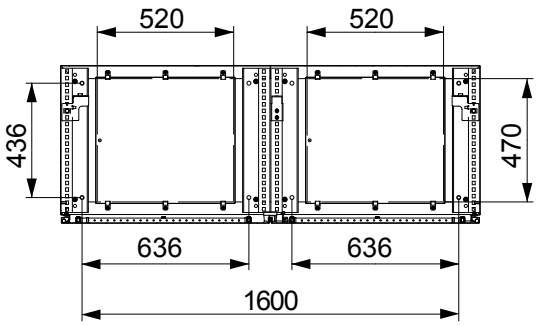
Dimensions





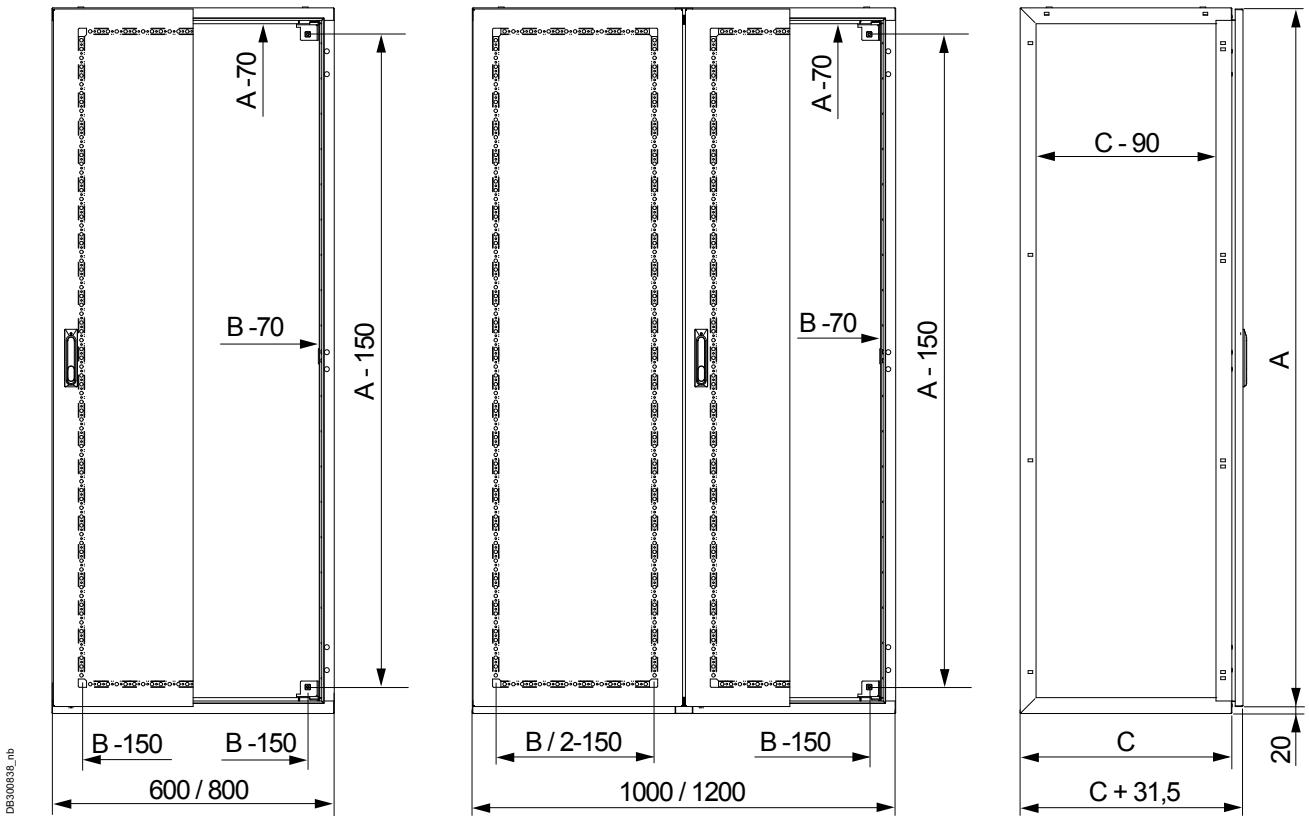
Enclosure width of 1000 and 1200 mm

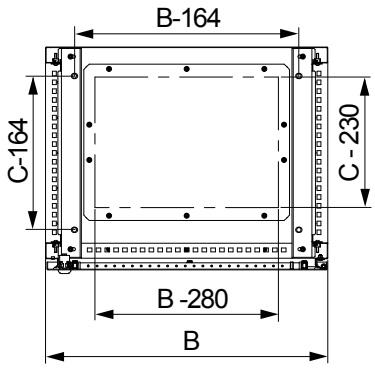
Floor-standing enclosure (mm)			Number of front doors	Number of cable gland plates	Dimensions (mm)	
Height (A)	Width (B)	Depth (C)			E	F
1400	1000	300	1	1	720	270
1600	800	400	1	1	520	270
1800	600	400	1	1	520	270
1800	800	400	1	1	520	270
1800	1200	400	2	1	920	270
1800	1600	400	2	2	1320	270
2000	800	500	1	1	520	370
2000	1000	400	2	1	720	270
2000	1200	500	2	1	920	370
2000	1600	600	2	2	1320	470

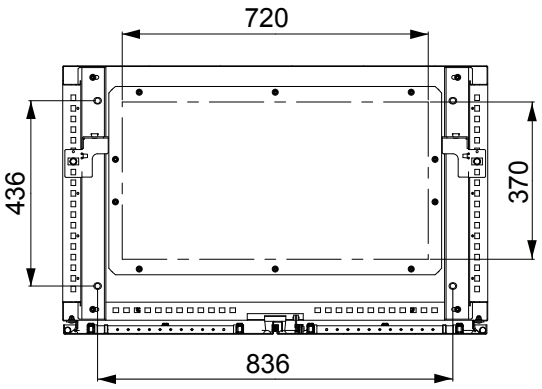


Enclosure width of 1600 mm

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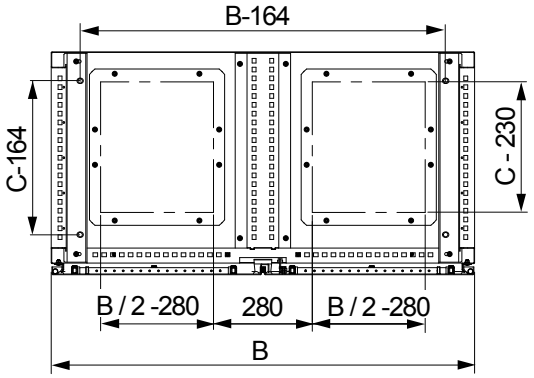






Enclosure width 1000

External dimensions (mm)			Number of front doors	Number of cable gland plates
Height (A)	Width (B)	Depth (C)		
1800	600	400	1	1
1800	800	400	1	1
1800	1200	400	2	2
2000	600	500	1	1
2000	800	400	1	1
2000	800	600	1	1
2000	1000	600	2	1
2000	1200	600	2	2



Enclosure width 1200 mm

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** Insulated Enclosures

Insulated Boxes





Insulated Wall-Mounted Enclosures




Insulated Floor-Standing Enclosures






Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

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Insulated Floor-Standing Enclosures	**158**

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Panel**SeT** Insulated Enclosures

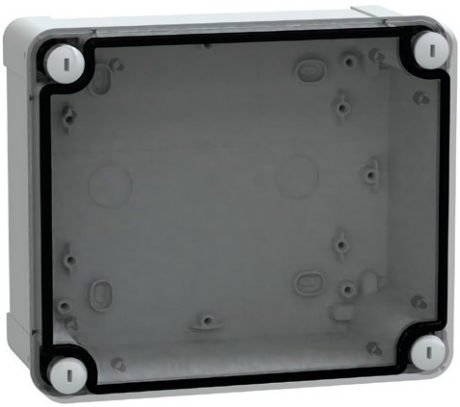
Insulated Boxes

Panel**SeT** TBS-TBP: Industrial Boxes

NSYTBS19168



NSYTBS19168T



Panel**SeT** PLS: Modular Boxes

PBS02791_61_nb



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** TBS-TBP: Industrial Boxes

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Panel**SeT** PLS: Modular Boxes

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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** TBS-TBP: Industrial Boxes

Introduction



The PanelSeT TBS and TBP boxes offer superior protection against dust and water, enhanced electrical insulation, as well as high resistance to impacts, UV rays, and extreme temperatures. Additionally, these boxes are well-known for their ease of installation.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT TBS-TBP: Industrial Boxes

Introduction

Only for TBS



New

Recycled Material

- Usage of a 45% post-industrial recycled ABS plastic

TBS-TBP



Easy to Install

- 3 methods of fixing the box to its support



Easy to Use

- Only one tool is required: A flat-bladed screwdriver



Smart

- Fixing studs on the cover

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** TBS-TBP: Industrial Boxes

Characteristics

Characteristics	Universal boxes rated IP66
Class II	 
	Boxes can be coupled (exactly the same dimensions) with kit ref. **13934**. Locks from box size of 116 x 116 x 62 mm: • Cover locking by 4 plastic captive screws with coarse thread outside the sealed area, • Plumbable lock. Locks from box size of 138 x 93 x 72 mm: • The standard screws (flat-bladed screwdriver) can be replaced with other standardised screws. The 4 reinforced edges of the cover improve its robustness and support during customization operations. Adaptable hinges on all the 20 and 40 mm covers.
Material	ABS boxes: • Transparent cover made of polycarbonate • Glow wire resistance: 650 °C according to IEC 60695-2-11 • Operating temperature: -25 °C...+60 °C • Installation temperature: -15 °C...+40 °C Polycarbonate boxes: • Glow wire resistance: 960 °C • Operating temperature: -25 °C...+80 °C • Installation temperature: -15 °C...+60 °C
Color	• Body: RAL 7035 gray • Cover: RAL 7035 gray or transparent
Ingress protection rating	IP66 according to IEC 60529
Mechanical protection rating	ABS: IK07 according to IEC 62262 Polycarbonate: IK08 according to IEC 62262
Standards	IEC 62208
Certifications	• IEC 62208 certified by TÜV • UL (cULus) : Polycarbonate Range • Product Environmental Profile • Class II according to IEC 61140 • Polycarbonate range: • Rating according UL50E : Types 4, 4X • Self-extinguishing
Installation	Fixing the box: • Outside the sealed sensitive volume by the 4 chimneys in the corners from box size of 138 x 93 x 72 mm • Through the rear of the box by 2 or 4 elongated holes to be perforated • With fixing lugs from box size of 116 x 116 x 62 mm (ref. **NSYAEFTB**) **Outdoor installation, only for polycarbonate range:** Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance UV radiation) and §9.13 (resistance to corrosion). Equipment installation: • Studs for fixing the equipment in the body and the cover of the box by means of a Ø 4 mm self-tapping screw (ref. **NSYAMFSTB**, screw Ø 4 x 10 mm with Pozidriv and slotted head) • Option of installing rails, plates or other types of supports (card, etc.) • Spacers and stand-offs to be installed on the studs for adjusting the height of the equipment

NOTICE

ENCLOSURE PROTECTION

For outdoor use, in case the boxes are not installed under a shelter to protect them against bad weather conditions, a canopy must be installed on the top of the boxes. This will help avoid water stagnation between body and lid.

To prevent condensation, install plastic airing louvres accessories. To prevent internal pressure, install a sealed pressure balance valve.

Failure to follow these instructions can result in equipment damage.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT TBS-TBP: Industrial Boxes

Characteristics

Characteristics	ABS boxes with push-buttons rated IP54	ABS boxes prepared for push-buttons
Class II	 PB500250_15_nb	 PB500252_22_nb
	Boxes can be coupled (exactly the same dimensions) with kit ref. **13934**. Locks from box size of 116 x 116 x 62 mm: • Cover locking by 4 plastic captive screws with coarse thread outside the sealed area, • Plumbable lock. Locks from box size of 138 x 93 x 72 mm: • The standard screws (flat-bladed screwdriver) can be replaced with other standardised screws. The 4 reinforced edges of the cover improve its robustness and support during customization operations. Adaptable hinges on all the 20 and 40 mm covers.	
Material	ABS boxes: • Glow wire resistance: 650 °C according to IEC 60695-2-11 • Operating temperature: -25 °C...+60 °C • Installation temperature: -15 C...+40 °C	
Color	• Body: RAL 7035 gray • Cover: RAL 7035 gray or transparent	
Ingress protection rating	IP54 according to IEC 60529	-
Mechanical protection rating	ABS: IK07 according to IEC 62262	
Standards	IEC 62208	
Certifications	• IEC 62208 certified by TÜV • Product Environmental Profile • Class II according to IEC 61140	
Installation	Fixing the box: • Outside the sealed sensitive volume by the 4 chimneys in the corners from box size of 138 x 93 x 72 mm • Through the rear of the box by 2 or 4 elongated holes to be perforated • With fixing lugs from box size of 116 x 116 x 62 mm (ref. **NSYAEFTB**) Outdoor installation, only for polycarbonate range: Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance UV radiation) and §9.13 (resistance to corrosion). Equipment installation: • Studs for fixing the equipment in the body and the cover of the box by means of a Ø 4 mm self-tapping screw (ref. **NSYAMFSTB**, screw Ø 4 x 10 mm with Pozidriv and slotted head) • Option of installing rails, plates or other types of supports (card, etc.) • Spacers and stand-offs to be installed on the studs for adjusting the height of the equipment	

NOTICE

ENCLOSURE PROTECTION

For outdoor use, in case the boxes are not installed under a shelter to protect them against bad weather conditions, a canopy must be installed on the top of the boxes. This will help avoid water stagnation between body and lid.

To prevent condensation, install plastic airing louvres accessories. To prevent internal pressure, install a sealed pressure balance valve.

Failure to follow these instructions can result in equipment damage.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT TBS-TBP: Industrial Boxes

Selection Table

Overall external dimensions (mm)			Overall internal dimensions (mm)							Universal boxes with ABS IP66 IK07		PC-UL IP66 IK08	
Height	Width	Depth	Height	Width	Depth	Body	Cover	Minor pack.	Cover screw	Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	5	Metal	**NSYTBS775**	-	**NSYTBP775**	-
89	89	54	80	80	47	37	10	5	Metal	**NSYTBS885**	-	**NSYTBP885**	-
116	74	62	105	65	55	45	10	5	Metal	**NSYTBS1176**	-	**NSYTBP1176**	-
116	74	94	105	65	85	45	40	3	Metal	**NSYTBS1179H**	-	-	-
116	116	62	105	105	55	45	10	5	Plastic	**NSYTBS11116**	-	**NSYTBP11116**	-
116	116	133	105	105	125	45	80	2	Plastic	**NSYTBS111113H**	-	-	-
138	93	72	125	80	65	45	20	2	Plastic	**NSYTBS1397**	**NSYTBS1397T**	**NSYTBP1397**	**NSYTBP1397T**
164	121	87	150	105	80	60	20	2	Plastic	**NSYTBS16128**	**NSYTBS16128T**	**NSYTBP16128**	**NSYTBP16128T**
192	121	87	175	105	80	60	20	2	Plastic	**NSYTBS19128**	**NSYTBS19128T**	**NSYTBP19128**	**NSYTBP19128T**
192	121	105	175	105	100	60	40	2	Plastic	**NSYTBS191210H**	**NSYTBS191210HT**	**NSYTBP191210H**	**NSYTBP191210HT**
192	164	87	175	150	80	60	20	1	Plastic	**NSYTBS19168**	**NSYTBS19168T**	**NSYTBP19168**	**NSYTBP19168T**
192	164	105	175	150	100	60	40	1	Plastic	**NSYTBS191610H**	**NSYTBS191610HT**	**NSYTBP191610H**	**NSYTBP191610HT**
241	194	87	225	175	80	60	20	1	Plastic	**NSYTBS24198**	**NSYTBS24198T**	**NSYTBP24198**	**NSYTBP24198T**
241	194	107	225	175	100	80	20	1	Plastic	**NSYTBS241910**	**NSYTBS241910T**	**NSYTBP241910**	**NSYTBP241910T**
241	194	107	225	175	100	60	40	1	Plastic	**NSYTBS241910H**	**NSYTBS241910HT**	**NSYTBP241910H**	**NSYTBP241910HT**
241	194	127	225	175	120	80	40	1	Plastic	**NSYTBS241912H**	**NSYTBS241912HT**	**NSYTBP241912H**	**NSYTBP241912HT**
291	241	88	275	225	80	60	20	1	Plastic	**NSYTBS29248**	**NSYTBS29248T**	**NSYTBP29248**	**NSYTBP29248T**
291	241	128	275	225	120	100	20	1	Plastic	**NSYTBS292412**	**NSYTBS292412T**	**NSYTBP292412**	**NSYTBP292412T**
291	241	128	275	225	120	60	60	1	Plastic	**NSYTBS292412H**	**NSYTBS292412HT**	**NSYTBP292412H**	**NSYTBP292412HT**
291	241	168	275	225	160	100	60	1	Plastic	**NSYTBS292416H**	**NSYTBS292416HT**	**NSYTBP292416H**	**NSYTBP292416HT**
341	291	128	325	275	120	100	20	1	Plastic	**NSYTBS342912**	**NSYTBS342912T**	**NSYTBP342912**	**NSYTBP342912T**
341	291	168	325	275	160	100	60	1	Plastic	**NSYTBS342916H**	**NSYTBS342916HT**	**NSYTBP342916H**	**NSYTBP342916HT**

Mounting Plates for Adjustment to Mounting Surface

Installation:

- Fixing by means of Ø 4 mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB**

Supply:
Plates supplied without screws

Mounting plates



Material:
Galvanized steel



Material:
Insulated polyester plate reinforced with fiberglass, halogen-free: Glow wire resistance 750 °C according to IEC 60695-2-11.

Box		Mounting plate dimensions				
Height (mm)	Width (mm)	A (mm)	B (mm)	Minor pack.	Thickness: 15/10e mm	Thickness: 25/10e mm
192	164	168.5	140	1	**NSYAMPM1916TB**	**NSYAMPA1916TB**
241	194	215	168.5	1	**NSYAMPM2419TB**	**NSYAMPA2419TB**
291	241	265	215	1	**NSYAMPM2924TB**	**NSYAMPA2924TB**
341	291	315	265	1	**NSYAMPM3429TB**	**NSYAMPA3429TB**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT TBS-TBP: Industrial Boxes

Selection Table

Button Description
- Emergency-off function with a red, Ø 40 mm, turn-to-unlock palm button.
- Start/stop function with 2 push-buttons.
- Up/down/stop function with 3 push buttons.

Technical Features of the Switches:
- NC switch with positive opening maneuver according to IEC 60947-5-1 appendix K,
- Mechanical durability of the emergency switch: 0.1 million cycles,
- Mechanical durability of the NC and NO switches: 5 million cycles,
- Protection against short circuits: 10 A.

- Ref. **XALEK1702** houses an emergency switching off palm button with mechanical locking according to standards IEC 60364-5-53 and 60947-5-5.

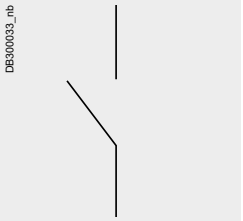
Comment:
For dimensions see page 132



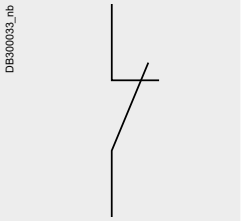


Overall external dimensions			Overall internal dimensions								Boxes equipped with I P54 ABS buttons	ABS button boxes, to be equipped
Height (mm)	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)	Body (mm)	Cover (mm)	Minor pack.	No. of holes	Function	References	References
74	74	83	-	-	-	-	-	1	-	Emergency switching off	**XALEK170**	-
116	74	62	105	65	55	45	10, Gray	5	2	-	-	**XALE2**
116	74	62	105	65	55	45	10, Gray	5	3	-	-	**XALE3**
116	74	75	-	-	-	-	-	1	-	Up/down/stop	**XALE3255**	-

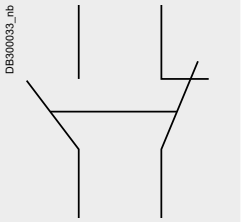
Function	Push-button type	Type NO
Emergency switching off	Locking, red	1
Start/stop		
Start	Flush, green	1
Stop	Projecting, red	-
Up/down/stop		
Up	Flush, black	-
Down	Flush, white	-
Stop	Projecting, red	-



Function	Push-button type	Type NC
Emergency switching off	Locking, red	1
Start/stop		
Start	Flush, green	-
Stop	Projecting, red	1
Up/down/stop		
Up	Flush, black	-
Down	Flush, white	-
Stop	Projecting, red	1



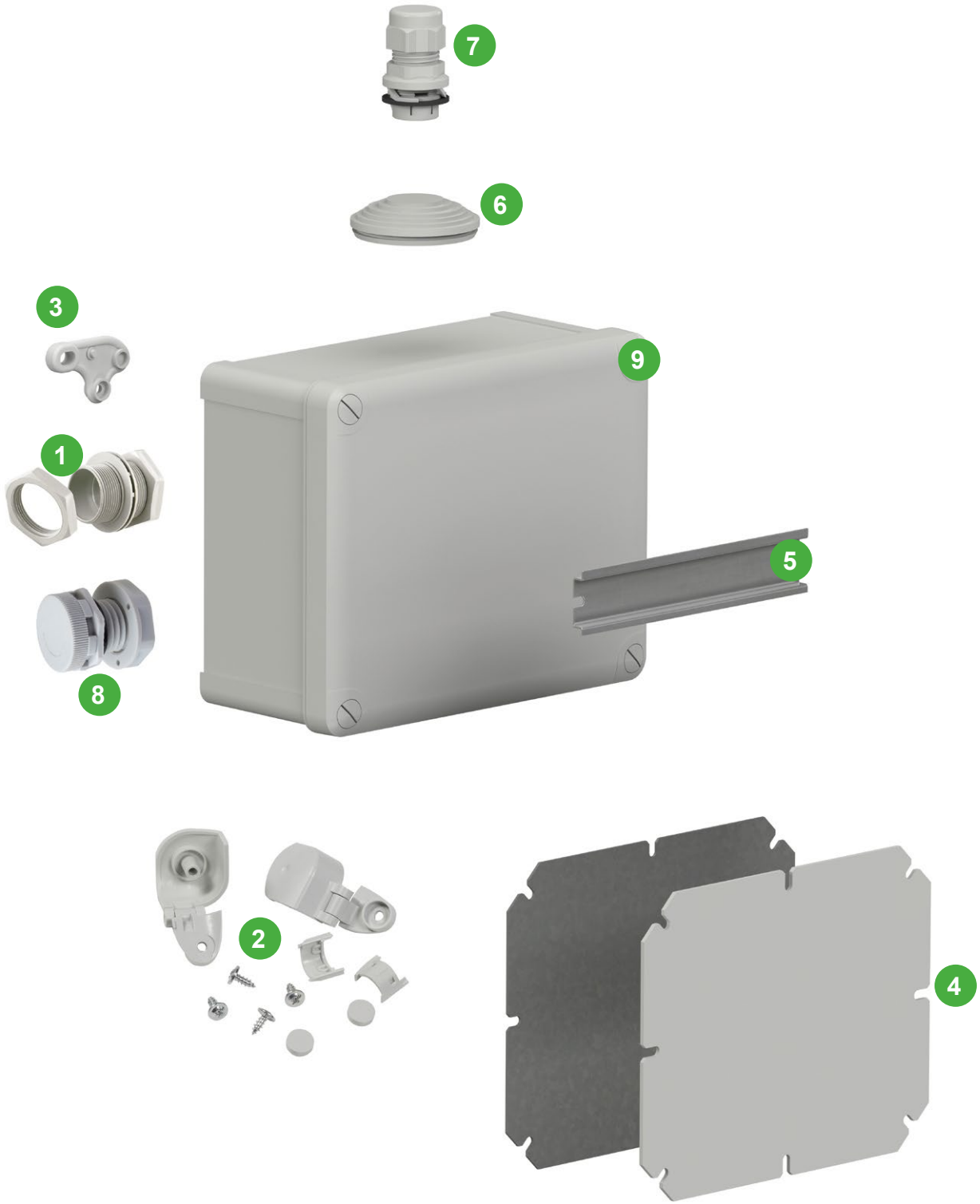
Function	Push-button type	Type C/O
Emergency switching off	Locking, red	-
Start/stop		
Start	Flush, green	-
Stop	Projecting, red	-
Up/down/stop		
Up	Flush, black	1
Down	Flush, white	1
Stop	Projecting, red	-



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** TBS-TBP: Industrial Boxes

Accessories



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fixing and Coupling Accessories

1



Coupling kit

See details p. 520

2



Hinges

See details p. 580

3



Set of fixing lugs

See details p. 522

Mounting Accessories

4



Mounting plates: plain and insulated

See details p. 474

5



Symmetric DIN rails and screws for rails

See details p. 489

Other Accessories

6



Cable entries: membranes, cone shaped, quick cable entries

See details p. 557

7



Cable glands

See details p. 559

8



Sealed pressure balance valves

See details p. 592

9



Cover accessories

See details p. 591

> For more information consult the Accessories chapter **page 472**

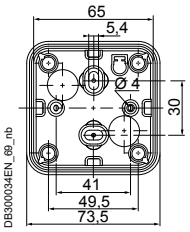
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** TBS-TBP: Industrial Boxes

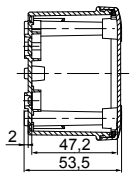
Dimensions

Box of 74 x 74 x 54 mm (external dimensions) **NSYTB●●●775**

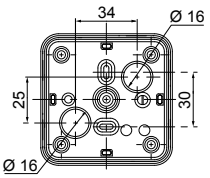
Interior



Side

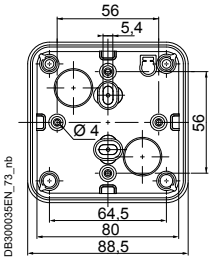


Rear

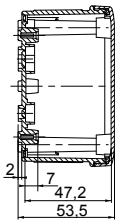


Box of 89 x 89 x 54 mm (external dimensions) **NSYTB●●●885**

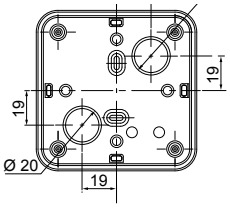
Interior



Side

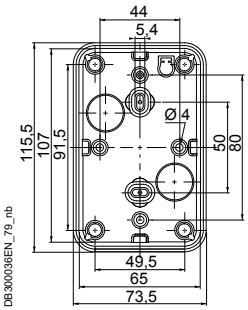


Rear

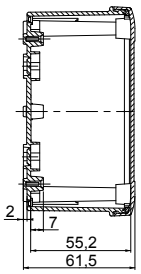


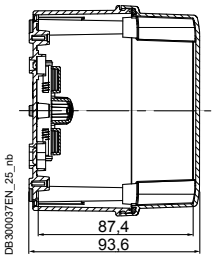
Box of 116 x 74 x 62 or 94 mm (external dimensions) **NSYTB●●●1176** or **NSYTB●●●1179**

Interior

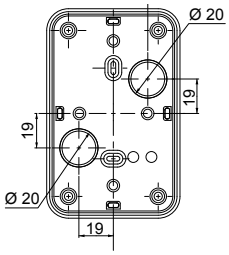


Side



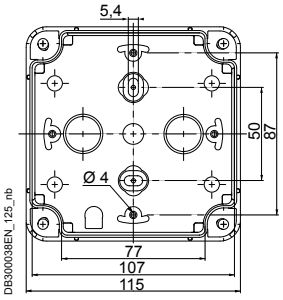


Rear

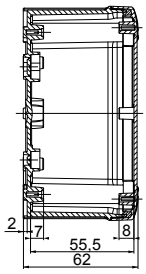


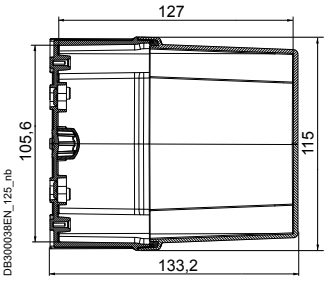
Box of 116 x 116 x 62 or 133 mm (external dimensions) **NSYTB●●●11116** or **NSYTB●●●111113**

Interior

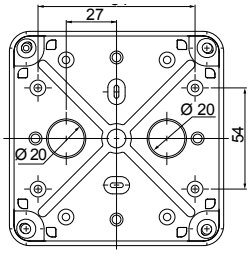


Side

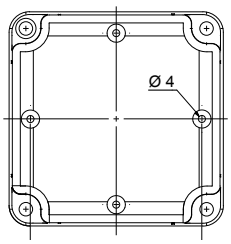




Rear

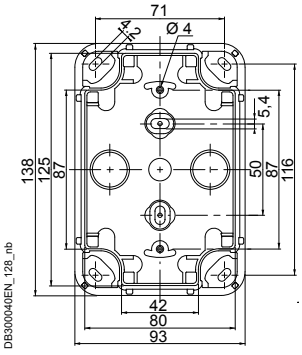


Cover

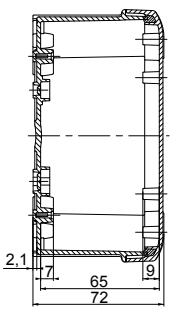


Box of 138 x 93 x 72 mm (external dimensions) **NSYTB●●●1397**

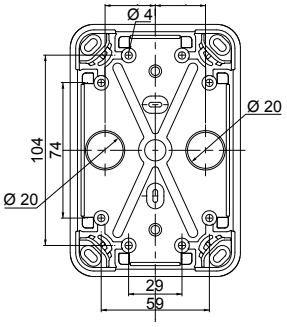
Interior



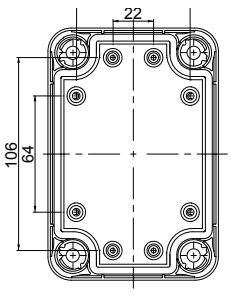
Side



Rear



Cover



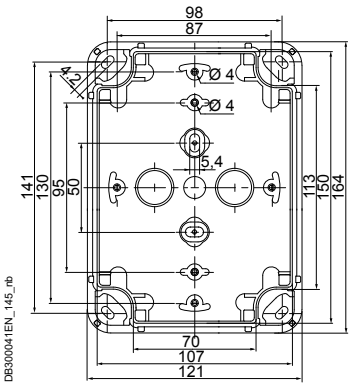
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Panel**SeT** TBS-TBP: Industrial Boxes

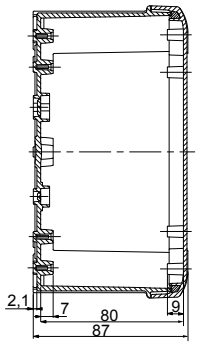
Dimensions

Box of 164 x 121 x 87 mm (external dimensions) **NSYTB●●●16128**

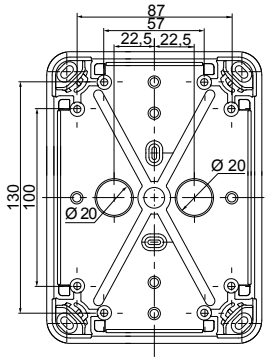
Interior



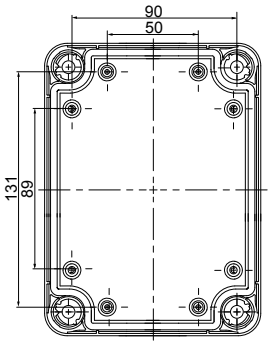
Side



Rear

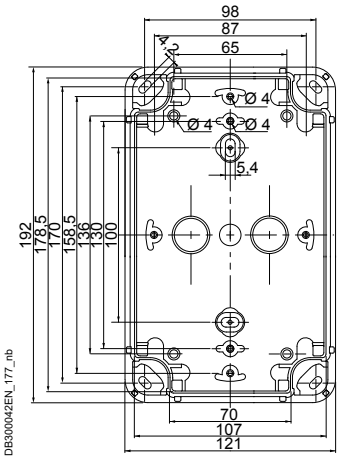


Cover

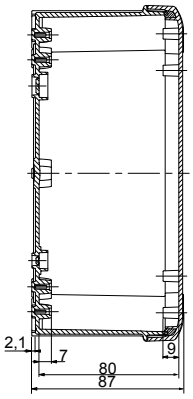


Box of 192 x 121 x 87 or 105 mm (external dimensions) **NSYTB●●●19128** or **NSYTB●●●191210**

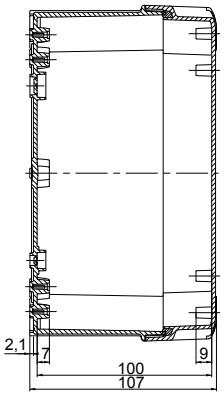
Interior



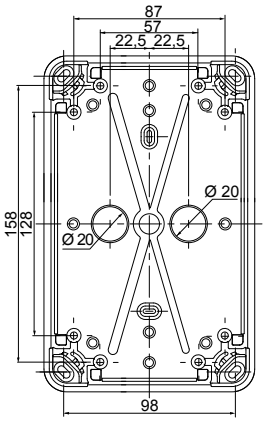
Side
Height 80 mm
(60 + 20 mm)



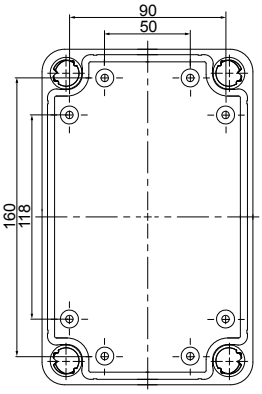
Side
Height 100 mm
(60 + 40 mm)



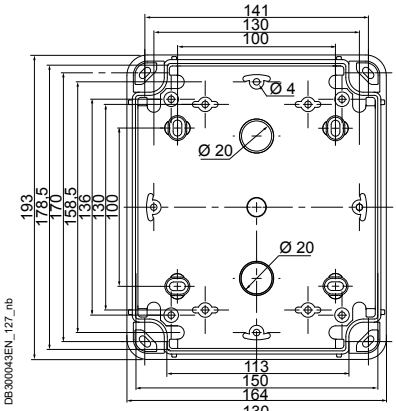
Rear



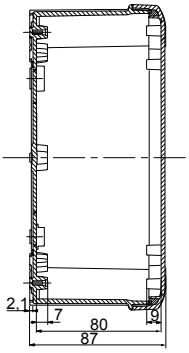
Cover



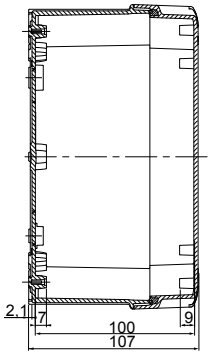
Box of 192 x 164 x 87 or 105 mm (external dimensions) **NSYTB●●●19168** or **NSYTB●●●191610**

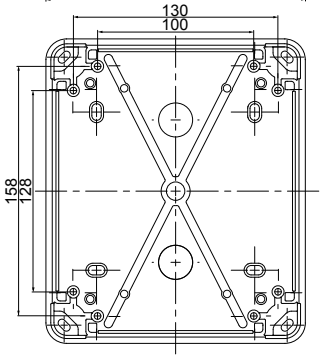


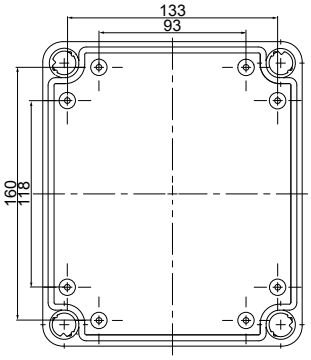
Height 80 mm
(60 + 20 mm)



Height 100 mm
(60 + 40 mm)





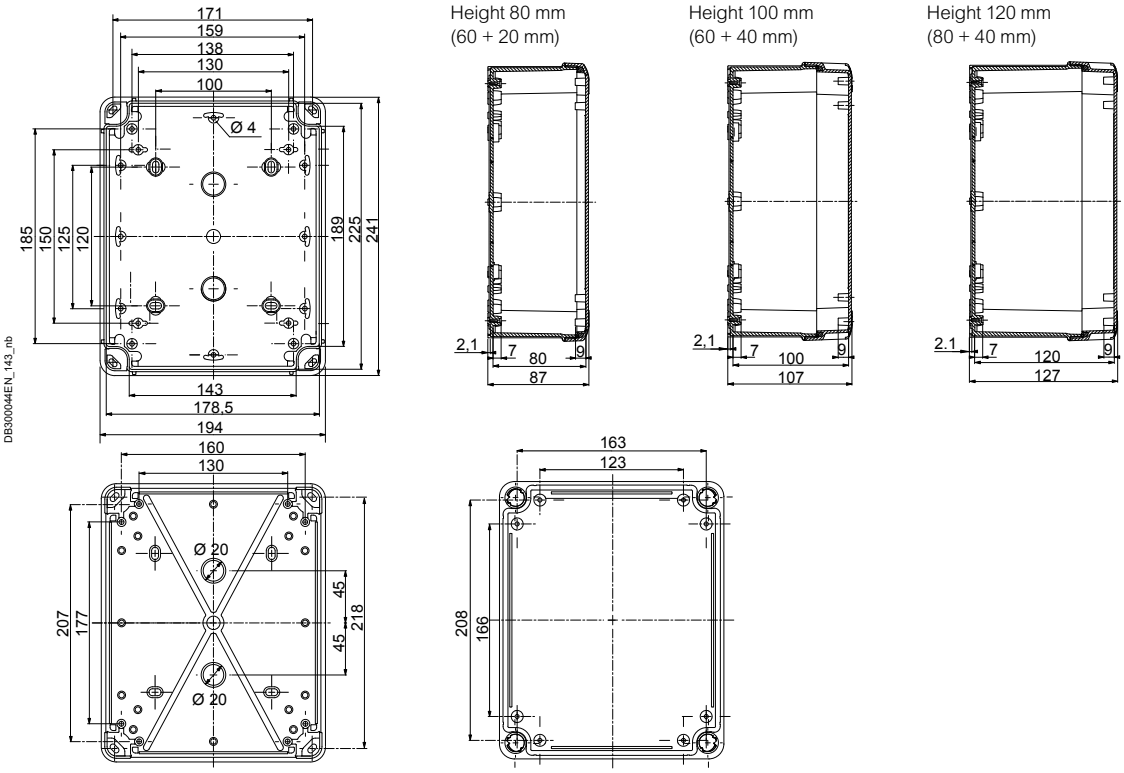


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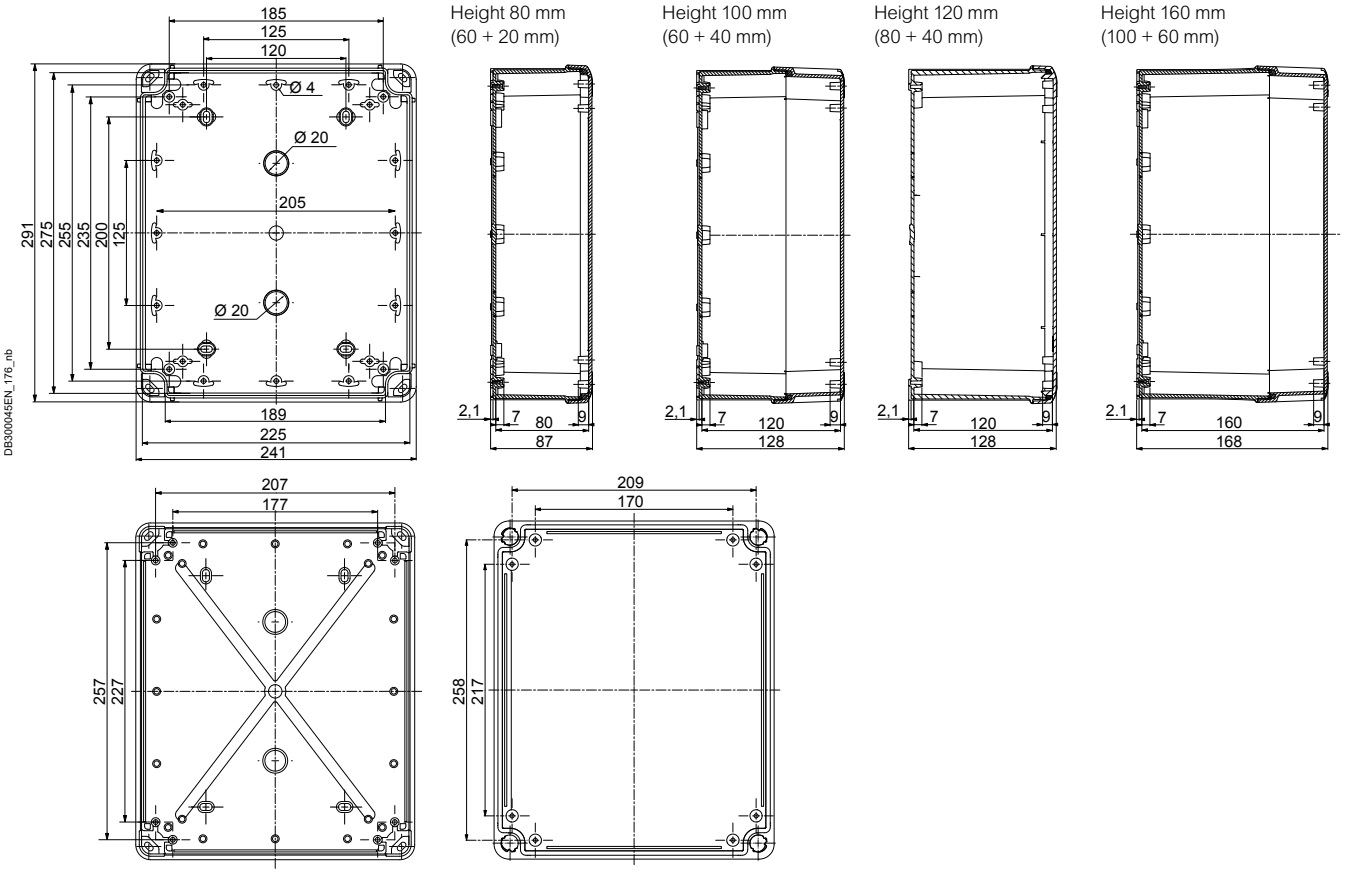
Panel**SeT** TBS-TBP: Industrial Boxes

Dimensions

Box of 241 x 194 x 87, 107 or 127 mm (external dimensions)
NSYTB●●●24198, **NSYTB●●●241910** or **NSYTB●●●241912**



Box of 291 x 241 x 88, 128 or 168 mm (external dimensions)
NSYTB●●●29248, **NSYTB●●●292412** or **NSYTB●●●292416**

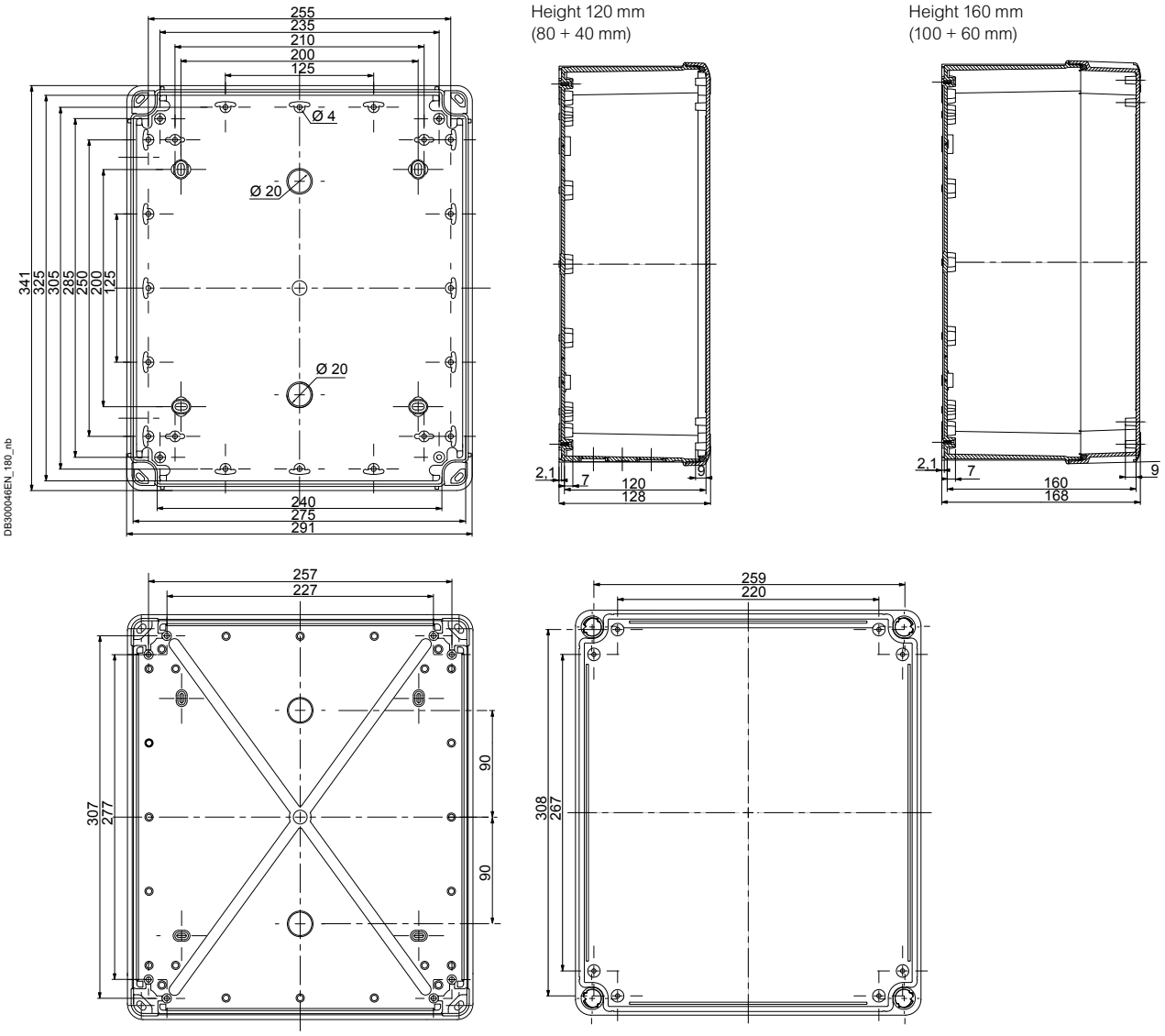


Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** TBS-TBP: Industrial Boxes

Dimensions

Box of 341 x 291 x 128 or 168 mm (external dimensions)
NSYTB●●●342912 or **NSYTB●●●342916**



Panel**SeT** PLS: Modular Boxes

Introduction



The PanelSeT PLS range includes Class II insulated polyester and polycarbonate industrial boxes, which can be interconnected on all sides, allowing for a wide variety of modular assemblies.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

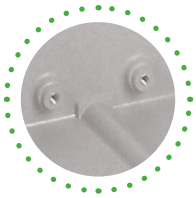
Note:
Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure without affecting the technical properties according to IEC 62208. For long-term aesthetics requirements, it is recommended to use painted enclosures available through our customization offer.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.



Enhanced Protection

- IP66
- Gasket between body and cover
- IK09
- Insulation Class II



Easy Access

Bosses with inserts, at the rear of the body, for fixing plates or various supports



Modular Offer

The dimensions of the sides, multiples of 9 cm, allow the creation of assemblies

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT PLS: Modular Boxes

Characteristics

Characteristics	NSYPLS5454AG	NSYPLS1827G	NSYPLSC5472AG	NSYPLSC1827G	NSYPLSP1827G
According to Reach and RoHs & Halogen-free					
Class II	Complete box				
	• Insulated boxes that can be coupled by all their side surfaces, allowing the creation of the greatest variety of modular assemblies. • The product references show the two lateral dimensions in cm. • 14 sizes of insulated boxes; The sides are multiples of 9 cm. • Body made from polyester reinforced with fiberglass, molded by hot compression, 9 sizes. • 3 types of cover available according to the sizes: Standard cover, made from transparent polycarbonate with neoprene gasket, 45 mm high, or 95 mm high (final index A), Opaque polycarbonate cover (index C), with neoprene gasket, 45 mm high, or 95 mm high (final index A), Polyester reinforced with fiberglass cover (index P) with PUR gasket, 45 mm high. • Complete box includes body, cover, locking screws and sealing device. • The bodies (prefix F) and the covers (prefix T) are supplied separately as standard references. The separate covers are supplied without locking screws or sealing accessories. • The PLS enclosures with transparent cover are also offered in sets; The reference refers to the complete set. • Excellent resistance to corrosion; withstands most chemical substances. • Full insulation to create Class II assemblies. • Standard lock with slot screws outside the volume of the boxes. Delivered with sealing system. • External wall-mounted by 4 lugs, to be ordered separately. • Service temperature: -40 to +80 °C. • Bosses with M6 inserts for fixing the mounting plate. • Halogen-free and compliant with the RoHS directive.				
Color	RAL 7035 gray (opaque bodies and cover)				
Ingress protection rating	IP66				
Mechanical protection rating	IK09				
Certifications	• Certification according to standard IEC 62208 to ensure compliance with IP, IK, resistance to heat and fire (self-extinguishing), insulation to 5000 V, and load of the mounting plate, 100 kg/m^2 • Certified UL (cULus). Rating according UL50E Type 1, 2, 3, 3R, 4, 4X, 12 and 13				
Installation	Outdoor installation: Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the top of the enclosure and to help protect against UV radiation.				

NSYPLS, **NSYPLSP** and **NSYPLSC** followed by suffixes.

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PanelSeT PLS: Modular Boxes

Characteristics

Characteristics	NSYDLS12
	
Class II	Modular distribution chassis
	Built-in DLS modular chassis, made up of an insulated protection panel, RAL 7011 color, 35-mm DIN rails and a 2 x 16 + 5 x 6 mm² neutral/earth connection strip.
Ingress protection rating	IP43
Mechanical protection rating	IK09
Installation	Indoor

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** PLS: Modular Boxes

Selection Table

			Complete box		
			 	 	
Dimensions (mm)			**Transparent cover**	**Polycarbonate cover**	**Polyester cover**
Height	**Width**	**Depth**			
180	270	180	**NSYPLS1827G**	**NSYPLSC1827G**	**NSYPLSP1827G**
270	270	180	**NSYPLS2727G**	**NSYPLSC2727G**	**NSYPLSP2727G**
270	270	230	**NSYPLS2727AG**	**NSYPLSC2727AG**	-
270	360	180	**NSYPLS2736G**	**NSYPLSC2736G**	**NSYPLSP2736G**
270	360	230	**NSYPLS2736AG**	**NSYPLSC2736AG**	-
270	540	180	**NSYPLS2754G**	**NSYPLSC2754G**	**NSYPLSP2754G**
270	540	230	**NSYPLS2754AG**	**NSYPLSC2754AG**	-
360	270	180	-	-	-
360	270	180	-	-	-
360	360	180	**NSYPLS3636G**	**NSYPLSC3636G**	**NSYPLSP3636G**
360	540	180	**NSYPLS3654G**	**NSYPLSC3654G**	**NSYPLSP3654G**
360	540	230	**NSYPLS3654AG**	**NSYPLSC3654AG**	-
360	720	230	**NSYPLS3672AG**	**NSYPLSC3672AG**	-
540	270	180	-	-	-
540	540	180	**NSYPLS5454G**	**NSYPLSC5454G**	**NSYPLSP5454G**
540	540	230	**NSYPLS5454AG**	**NSYPLSC5454AG**	-
540	720	230	**NSYPLS5472AG**	**NSYPLSC5472AG**	-

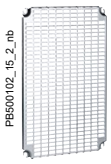
			Rear	Low covers: 45 mm		
				 		
Dimensions (mm)			**Rear 135 mm**	**Transparent**	**Polycarbonate**	**Polyester**
Height	**Width**	**Depth**				
180	270	180	**NSYFPLS1827G**	**NSYTPLS1827**	**NSYTPLSC1827G**	-
270	270	180	**NSYFPLS2727G**	**NSYTPLS2727**	**NSYTPLSC2727G**	**NSYTPLSP2727G**
270	270	230	**NSYFPLS2727G**	-	-	-
270	360	180	**NSYFPLS2736G**	**NSYTPLS2736**	**NSYTPLSC2736G**	-
270	360	230	**NSYFPLS2736G**	-	-	-
270	540	180	**NSYFPLS2754G**	**NSYTPLS2754**	**NSYTPLSC2754G**	**NSYTPLSP2754G**
270	540	230	**NSYFPLS2754G**	-	-	-
360	360	180	**NSYFPLS3636G**	**NSYTPLS3636**	**NSYTPLSC3636G**	-
360	540	180	**NSYFPLS3654G**	**NSYTPLS3654**	**NSYTPLSC3654G**	**NSYTPLSP3654G**
360	540	230	**NSYFPLS3654G**	-	-	-
360	720	230	**NSYFPLS3672G**	-	-	-
540	540	180	**NSYFPLS5454G**	**NSYTPLS5454**	**NSYTPLSC5454G**	-
540	540	230	**NSYFPLS5454G**	-	-	-
540	720	230	**NSYFPLS5472G**	-	-	-

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT PLS: Modular Boxes

Selection Table

	Insulated modular boxes with modular distribution chassis			Modular distribution chassis			
				 NSYDLS12			
	Number of 18 mm modules	Number of rows	Approximate weight (kg)	References	Dimensions (mm)		
					Height	Width	Depth
	12	1	1.7	**NSYDLS12**	180	270	180
	24	2	2.5	**NSYDLS24**	270	270	180
	-	-	-	-	270	270	230
	-	-	-	-	270	360	180
	-	-	-	-	270	360	230
	-	-	-	-	270	540	180
	-	-	-	-	270	540	230
	24	2	2.7	**NSYDLS242**	360	270	180
	36	3	2.8	**NSYDLS36**	360	270	180
	-	-	-	-	360	360	180
	-	-	-	-	360	540	180
	-	-	-	-	360	540	230
	-	-	-	-	360	720	230
	-	4	3.8	**NSYDLS48**	540	270	180
	48	-	-	-	540	540	180
	-	-	-	-	540	540	230
	-	-	-	-	540	720	230

	High covers: 95 mm		Metal mounting plates		Insulated mounting plates			
	 NSYTPLS2736A	 NSYTPLSC2727AG	 PB500072_11_2_nb	 PB500102_15_2_nb	 NSYPMA1827G			
	Transparent	Opaque	Plain	Telequick	Polyester	Dimensions (mm)		
						Height	Width	Depth
	-	-	**NSYPMM1827**	**NSYPMR1827**	**NSYPMA1827G**	180	270	180
	-	-	**NSYPMM2727**	**NSYPMR2727**	**NSYPMA2727G**	270	270	180
	NSYTPLS2727A	**NSYTPLSC2727AG**	**NSYPMM2727**	**NSYPMR2727**	**NSYPMA2727G**	270	270	230
	-	-	**NSYPMM2736**	**NSYPMR2736**	**NSYPMA2736G**	270	360	180
	NSYTPLS2736A	**NSYTPLSC2736AG**	**NSYPMM2736**	**NSYPMR2736**	**NSYPMA2736G**	270	360	230
	-	-	**NSYPMM2754**	**NSYPMR2754**	**NSYPMA2754G**	270	540	180
	NSYTPLS2754A	**NSYTPLSC2754AG**	**NSYPMM2754**	**NSYPMR2754**	**NSYPMA2754G**	270	540	230
	-	-	**NSYPMM3636**	-	**NSYPMA3636G**	360	360	180
	-	-	**NSYPMM3654**	**NSYPMR3654**	**NSYPMA3654G**	360	540	180
	NSYTPLS3654A	**NSYTPLSC3654AG**	**NSYPMM3654**	**NSYPMR3654**	**NSYPMA3654G**	360	540	230
	NSYTPLS3672A	**NSYTPLSC3672AG**	**NSYPMM3672**	-	**NSYPMA3672G**	360	720	230
	-	-	**NSYPMM5454**	-	**NSYPMA5454G**	540	540	180
	NSYTPLS5454A	**NSYTPLSC5454AG**	**NSYPMM5454**	-	**NSYPMA5454G**	540	540	230
	NSYTPLS5472A	**NSYTPLSC5472AG**	**NSYPMM5472**	-	**NSYPMA5472G**	540	720	230

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Panel**SeT** PLS: Modular Boxes

Accessories



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fixing and Coupling Accessories

1



Wall fixing lugs

See details p. 522

2



Coupling frames

See details p. 519

3



Side plates

See details p. 518

4



Box coupling unit piece

See details p. 521

Door Accessories

5



Closing locks

See details p. 576

6



Locking screws

See details p. 584

7



External hinges

See details p. 580

8



Internal hinges

See details p. 580

Other Accessories

9



Plastic carrying handle

See details p. 592

> For more information consult the Accessories chapter **page 472**

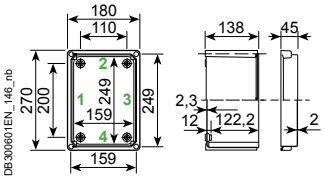
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PanelSeT PLS: Modular Boxes

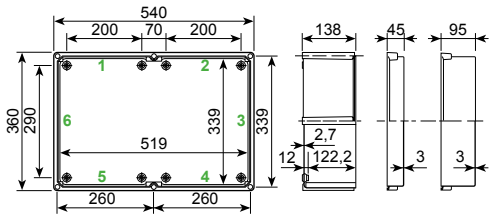
Dimensions

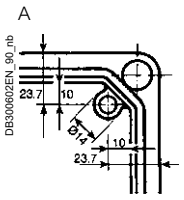
The Surfaces Are Numbered to Enable Identification of the Surfaces to Be Drilled in the Customized Offer

NSYPLS●●●1827G



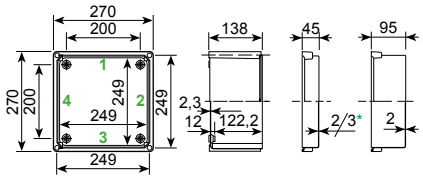
NSYPLS●●●3654●G



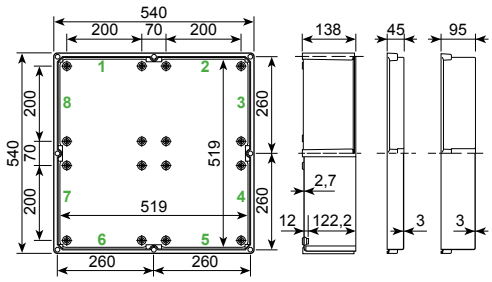


A - B: Internal view of the corners of the polyester covers with bosses for inserts ref. **NSYTEX5** for M5 screws.

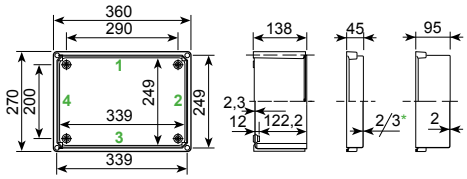
NSYPLS●●●2727●G



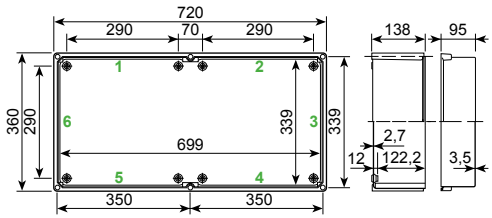
NSYPLS●●●5454●G



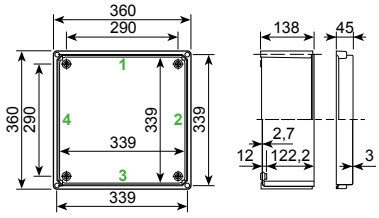
NSYPLS●●●2736●G



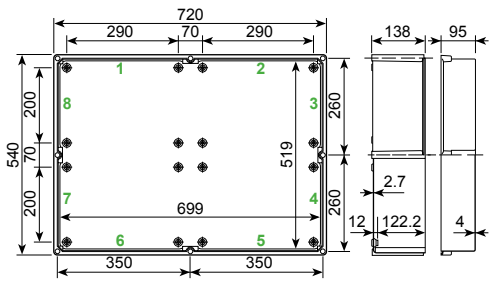
NSYPLS●●●3672●G



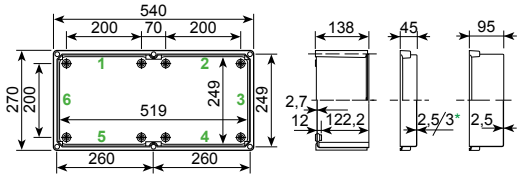
NSYPLS●●●3636G



NSYPLS●●●5472●G



NSYPLS●●●2754●G



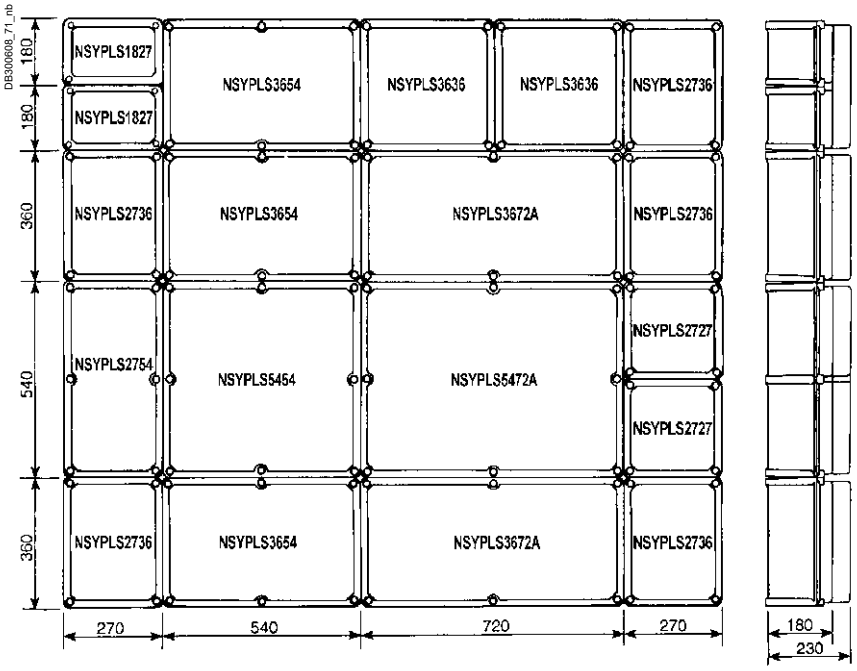
* Thickness of 30/10e mm for the polyester cover.

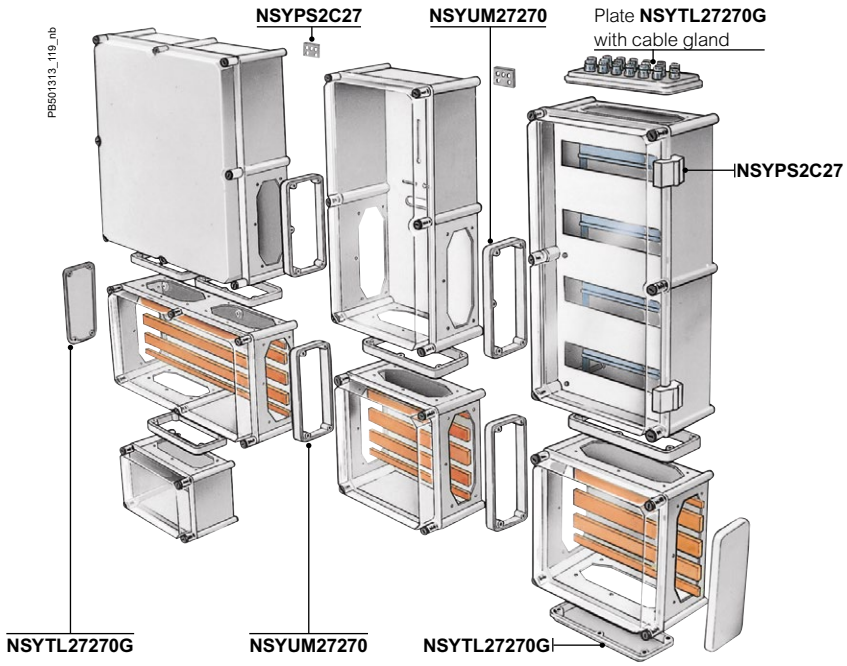
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3

Examples of Assembly

All the boxes can be joined by their lateral surfaces using the coupling frames **NSYUM●●●** or **NSYUCC●●●**, and the joining and fixing pieces **NSYPS2C27** and **NSYPS4C27**.





Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** Insulated Enclosures

Insulated Wall-Mounted Enclosures

Panel**SeT** PLM

PB500147SE_19_rb



PB501325SE_95_rb



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** PLM

Introduction	**148**
Characteristics	**150**
Selection Table	**152**
Accessories	**154**
Dimensions	**156**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** PLM

Introduction



The fiberglass reinforced polyester wall-mounted enclosure is suitable for both indoor and outdoor installations, especially in harsh environments. It can withstand extreme temperatures and offers high electrical isolation. Additionally, it is highly resistant to fire, vandalism, and corrosion.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

Note:
Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure without affecting the technical properties according to IEC 62208. For long-term aesthetics requirements, it is recommended to use painted enclosures available through our customization offer.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.



New

Recycled Material from January 2025
- Made of polyester with 37% of post-industrial recycled material content
- Use of recycled packaging



Easy Installation
- Door easily reversible by turning it over
- Opening to 120° or 180°
- Easy machining with no corrosion
- Lightness
- Polyamide hinge pin, easily removable and captive



Smart Interior
- Notches for easy fixing of DIN rails
- Grid pattern on the rear of the door for marking the machining operations



Service Life
- High resistance to corrosion in harsh environments, maintaining mechanical properties and insulation



Landscape Option
- Horizontal enclosures for photovoltaic and multiple applications
- Easily and quickly removable door system (without removing hinges and pins)
- For more details see page 151

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulated Wall-Mounted Enclosures

Panel**SeT** PLM

Characteristics

Characteristics	ABS/PC wall-mounted enclosures	Polyester wall-mounted enclosures	
According to Reach and RoHs & Halogen-free Class II			
	• Monobloc wall-mounted enclosure. • Version with transparent polycarbonate door. • Door opening: 180°. • Supplied with a lock with double-bar insert as standard	• Monobloc wall-mounted enclosure. • Version with transparent tempered-glass door. • Door opening angle: 120°. • Grid pattern with a pitch of 50 mm on the back of the door. • Supplied with one lock with a double-bar insert as standard.	• Monobloc wall-mounted enclosure. • Version with transparent tempered-glass door. • Locking device outside the sealed area for long-term tightness according to IP66. • Locking system: enclosure height ≤ 847 mm: 2 locks with double-bar insert ref. **NSYCDBPLM** or 1 handle with key lock and 3-point locking system, • Enclosure height 1056 mm: 1 lock with double-bar insert and 4-point locking system ref. **NSYVPLM108**. • Door opening angle: 180°. • Bosses for accessory-fixing inserts: M6 inside the enclosure, M5 in the door for enclosure heights of 430 and 530 mm, M6 in the door for enclosure heights ≥ 647 mm. • Grid pattern with a pitch of 25 mm on the back of the door.
Material	ABS/PC	Polyester reinforced with fiberglass, molded by hot compression	
Temperature range - Gasket	-40 °C to +80 °C		
Color	RAL 7035 gray		
Ingress protection rating	IP66 according to IEC 60529		
Mechanical protection rating	• IK10 plain door • IK08 glazed door		
Certifications (see page 610)	• IEC 62208 • Bureau Veritas Marine	• IEC 62208 • Marine • UL (cULus). Rating according to UL50E: 1, 2, 3, 3R, 4, 4X, 5, 12 and 13. • Certifications exclude range NSYPLM...VG or TVG	• IEC 62208 • Marine
Installation	• Direct fixing of symmetrical rails ref. **NSYCS200PLM** with plastic nuts ref. **NSYTCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm • Fixing of installation plates on the studs at the rear of the enclosure	• Fixing of rear accessories on 4 M8 x 18 studs	• Fixing of rear accessories on 4 M8 studs, included in the standard supply • Direct fixing of symmetrical rails ref. **NSYCS●●●PLM**, with plastic nuts, ref. NSYTCSPLM, to be installed in the notches on the rear of the body, with a pitch of 25 mm

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT PLM Landscape

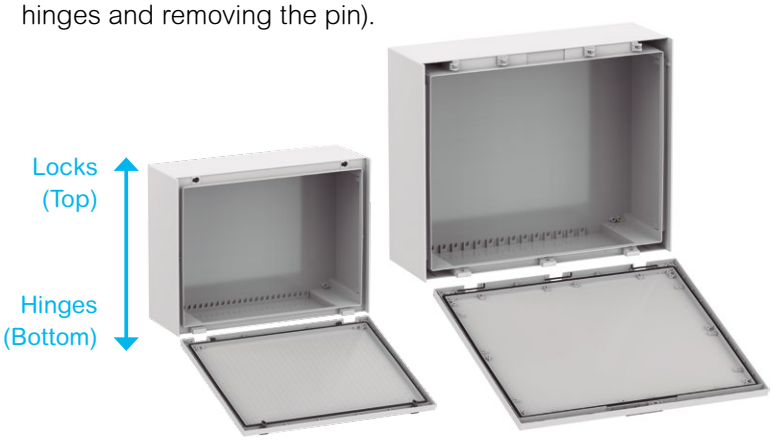
Horizontal wall-mounted enclosures designed for photovoltaic and multiple outdoor applications installed in harsh environments

General Characteristics

- Wall-mounted enclosures made of fiberglass reinforced polyester molded by hot compression.
- Monobloc body with polyurethane gasket.
- Wider sizes with more space available in the bottom of the enclosure to install additional cable entries.
- Impact resistance IK10, IEC 62262.
- Protection degree IP 66, IEC 60529.
- Class II insulation.
- Certifications: IEC 62208 and UL 508A - NEMA type: 1, 2, 3, 3R, 3S, 4, 4X, 5, 12 and 13.
- Reach and RoHs compliance.
- Color: RAL 7035.

Removable Door System

- Removable door system that allows:
  - Enhanced access to the internal part of the enclosure.
  - Easy and quick assembly/disassembly of the door (without dismounting the hinges and removing the pin).



Self-Adhesive and Fixable Canopy

- Self-adhesive canopy made of PVC available as an accessory - black RAL 9005 Color.
- For outdoor use, the canopy must be installed to protect the door gasket against water stagnation.



Wall Fixing Lugs

- Set of 4 wall fixing lugs (plastic or stainless-steel) available as an accessory.
- Quick and easy assembly through the inserts, without drilling the enclosure. IP66 guaranteed.



Landscape Enclosures - RAL 7035



NSYS3HD3215



NSYPLM810G

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Number of locks	References
Landscape enclosures. RAL 7035	536	747	300	2	**NSYPLM57G**
Landscape enclosures. RAL 7035	636	847	300	2	**NSYPLM68G**
Landscape enclosures. RAL 7035	852	1056	350	1	**NSYPLM810G**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulated Wall-Mounted Enclosures

PanelSeT PLM

Selection Table

External dimensions (mm)			References of wall-mounted enclosures with door							
Height	Width	Depth	Plain (3)	Transparent (4)	Plain (3)	Transparent (4)	Plain (3)	Transparent (4)	Plain (1)	Transparent (1) (4)
308	255	160	-	-	NSYPLM3025G	NSYPLM3025TG	-	-	-	-
310	215	160	NSYPLM32G	NSYPLM32TG	-	-	-	-	-	-
430	330	200	-	-	-	-	NSYPLM43G	NSYPLM43TG	NSYPLM43VG	NSYPLM43TVG
530	430	200	-	-	-	-	NSYPLM54G	NSYPLM54TG	NSYPLM54VG	NSYPLM54TVG
647	436	250	-	-	-	-	NSYPLM64G	NSYPLM64TG	NSYPLM64VG	NSYPLM64TVG
747	536	300	-	-	-	-	NSYPLM75G	NSYPLM75TG	NSYPLM75VG	NSYPLM75TVG
847	636	300	-	-	-	-	NSYPLM86G	NSYPLM86TG	NSYPLM86VG	NSYPLM86TVG
1056	852	350	-	-	-	-	NSYPLM108G (2)	NSYPLM108TG (2)	-	-

(1) Wall-mounted enclosure with handle and lock with 3-point locking system and key 1242 E delivered as standard.
(2) Wall-mounted enclosure with standard 5-mm double-bar lock and lock with 4-point locking system.
(3) These enclosures are also available equipped with metal or insulated mounted plates.
(4) Must be protected against UV radiation.

Comment:
NSYPLMRS108GA is also certified by UL (cULus).

Comment:
For dimensions see page 156









ABS/PC wall-mounted enclosures with door				Polyester wall-mounted enclosures with door	
External dimensions (mm)					
Height	Width	Depth	Plain (3)	Transparent (4)	Plain (3)	Transparent (4)
310	215	160	NSYPLM32G	NSYPLM32TG	-	-
308	255	160	-	-	NSYPLM3025G	NSYPLM3025TG

Comment:
For dimensions see page 157













Polyester wall-mounted enclosures with door						
External dimensions (mm)						
Height	Width	Depth	Plain (3)	Transparent (4)	Plain (1)	Transparent (1)(4)
430	330	200	NSYPLM43G	NSYPLM43TG	NSYPLM43VG	NSYPLM43TVG
530	430	200	NSYPLM54G	NSYPLM54TG	NSYPLM54VG	NSYPLM54TVG
647	436	250	NSYPLM64G	NSYPLM64TG	NSYPLM64VG	NSYPLM64TVG
747	536	300	NSYPLM75G	NSYPLM75TG	NSYPLM75VG	NSYPLM75TVG
847	636	300	NSYPLM86G	NSYPLM86TG	NSYPLM86VG	NSYPLM86TVG
1056	852	350	NSYPLM108G (2)	NSYPLM108TG (2)	-	-

(1) Wall-mounted enclosure with handle and lock with 3-point locking system and key 1242 E delivered as standard.
(2) Wall-mounted enclosure with standard 5-mm double-bar lock and lock with 4-point locking system.
(3) These enclosures are also available equipped with metal or insulated mounted plates.
(4) Must be protected against UV radiation.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulated Wall-Mounted Enclosures

PanelSeT PLM

Selection Table

Comment:
For dimensions see page 157

External dimensions (mm)			ABS/PC wall-mounted enclosures with door		Polyester wall-mounted enclosures with door	
						
Height	Width	Depth	Plain	Bakelite	Plain	Bakelite
310	215	160	**NSYPLM32PG**	**NSYPLM32BG**	-	-
308	255	160	-	-	**NSYPLM3025PG**	**NSYPLM3025BG**

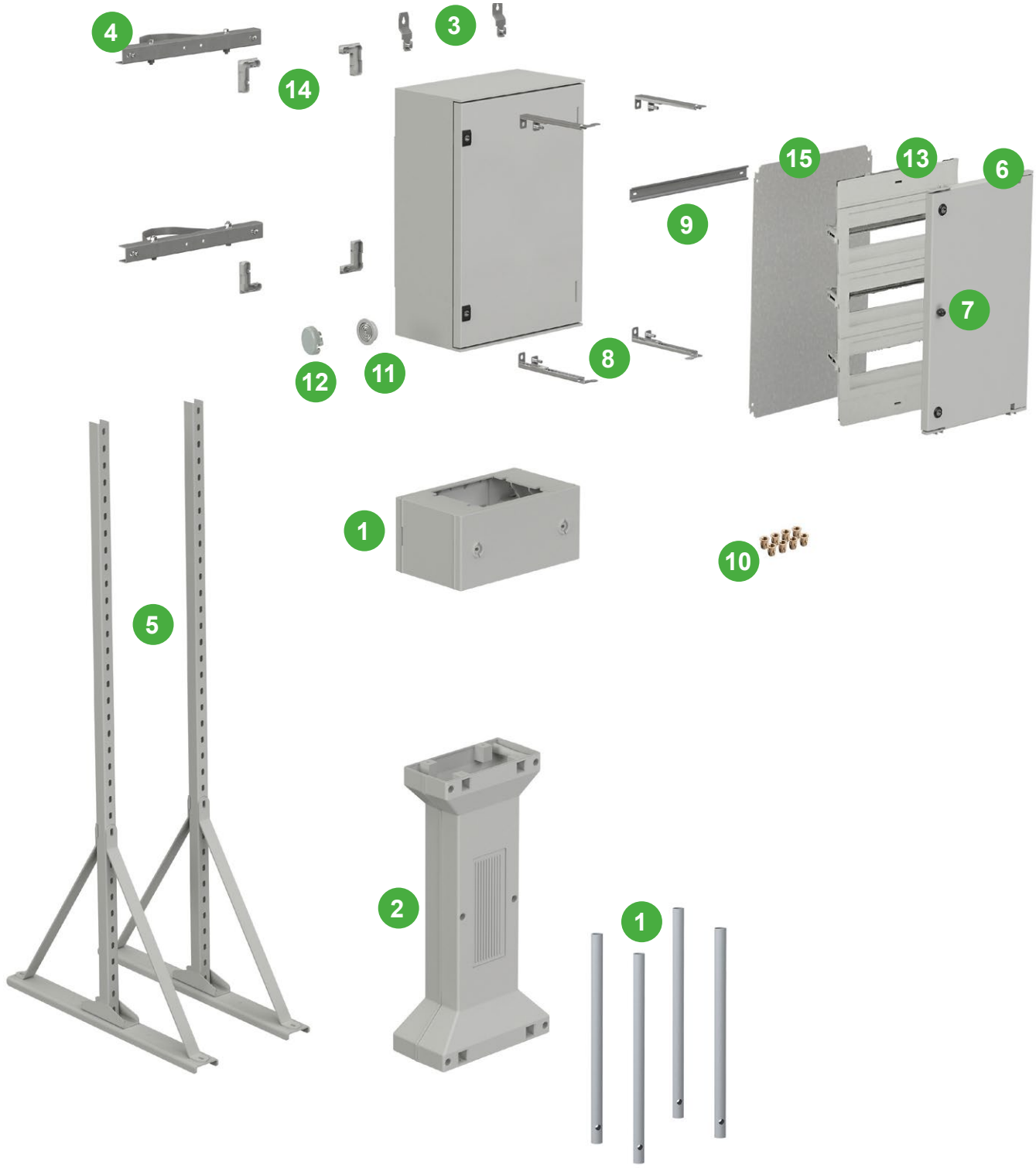
Comment:
For dimensions see page 157

External dimensions (mm)			Wall-mounted enclosures with plain door and mounted plate (not mounted)	
				
Height	Width	Depth	Plain	Bakelite
430	330	200	**NSYPLM43PG**	**NSYPLM43BG**
530	430	200	**NSYPLM54PG**	**NSYPLM54BG**
647	436	250	**NSYPLM64PG**	**NSYPLM64BG**
747	536	300	**NSYPLM75PG**	**NSYPLM75BG**
847	636	300	**NSYPLM86PG**	**NSYPLM86BG**
1056	852	350	-	**NSYPLM108BG**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** PLM

Accessories



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fixing Accessories

1

Plinths and feet for buried installation
See details p. 535

2

Floor mounted pillar
See details p. 535

3

Wall fixing lugs
See details p. 523

4

Post fixing device
See details p. 529

5

Support bracket
See details p. 528

Door Accessories

6

Internal doors
See details p. 569

7

Inserts, keys, locks, padlocks and handles
See details p. 576

Other Accessories

8

Step slides
See details p. 512

9

Rails and plastic nuts for rails
See details p. 489

10

Fixing inserts
See details p. 592

11

Airing louvres
See details p. 592

12

Water drain plug
See details p. 592

13

Modular chassis and panels for chassis
See details p. 506

14

Blanking plates
See details p. 592

15

Mounting plate
See details p. 475

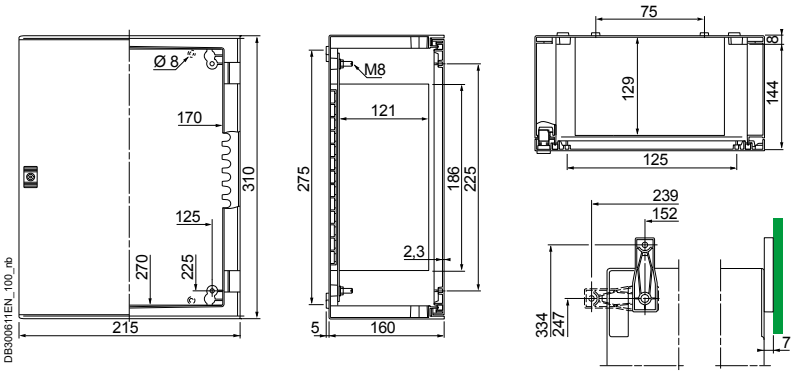
> For more information consult the Accessories chapter **page 472**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

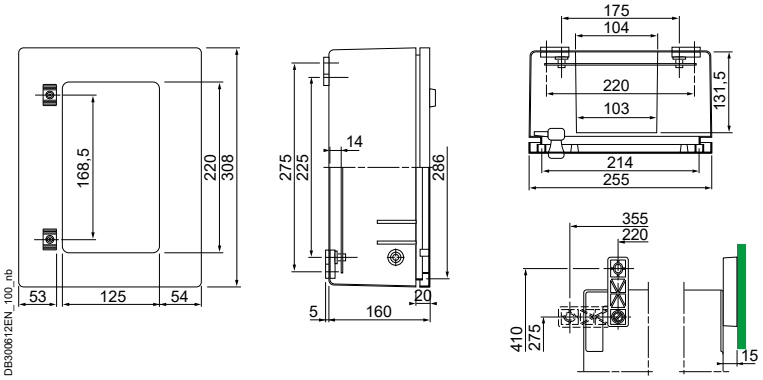
Panel**SeT** PLM

Dimensions

ABS/PC Wall-Mounted Enclosures



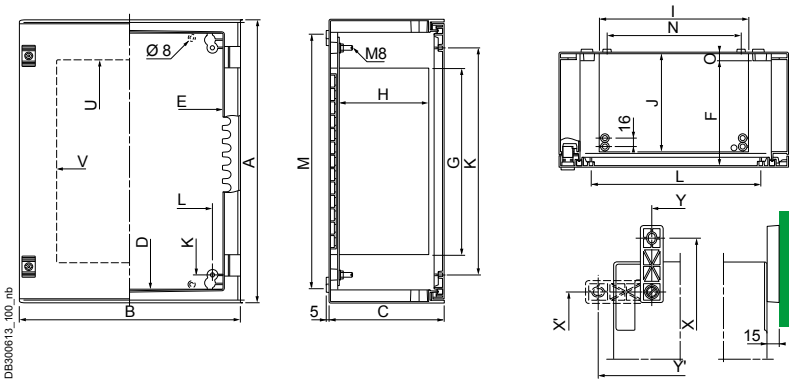
Polyester Wall-Mounted Enclosures 308 x 255 mm



Note: This model is available with only one lock!

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Other Polyester Wall-Mounted Enclosures



External fixing with lugs (mm)				
Vertical		Horizontal		
X	Y	X'	Y'	References
490	225	355	360	**NSYPLM43G**
590	325	455	460	**NSYPLM54G**
690	330	555	465	**NSYPLM64G**
790	430	655	565	**NSYPLM75G**
890	530	755	665	**NSYPLM86G**
1090	750	955	885	**NSYPLM108G**

Glazed door opening (mm)		
U	V	References
273	194	**NSYPLM43TG**
273	151	**NSYPLM43TVG**
373	294	**NSYPLM54TG**
373	251	**NSYPLM54TVG**
463	294	**NSYPLM64TG**
463	252	**NSYPLM64TVG**
563	394	**NSYPLM75TG**
563	352	**NSYPLM75TVG**
663	494	**NSYPLM86TG**
663	452	**NSYPLM86TVG**
854	661	**NSYPLM108TG**

Dimensions (mm)										Bottom screw and door bosses (mm)		Internal fixing (mm)			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	References
430	330	200	380	260	181	247	150	179	168	325	225	375	150	13	**NSYPLM43G**
530	430	200	480	360	181	347	150	279	168	425	325	475	250	13	**NSYPLM54G**
647	436	250	580	360	228	388	192	279	212	525	325	575	250	13	**NSYPLM64G**
747	536	300	680	460	278	487	241	379	261	625	425	675	350	15	**NSYPLM75G**
847	636	300	780	560	278	587	241	479	261	725	525	775	450	15	**NSYPLM86G**
1056	852	350	980	760	327	775	280	680	300	925	725	975	650	15	**NSYPLM108G**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** Insulated Enclosures

Insulated Floor-Standing Enclosures

Panel**SeT** PLA Version

PB503694



Panel**SeT** PLAT Version

PB500215SE_35_nb



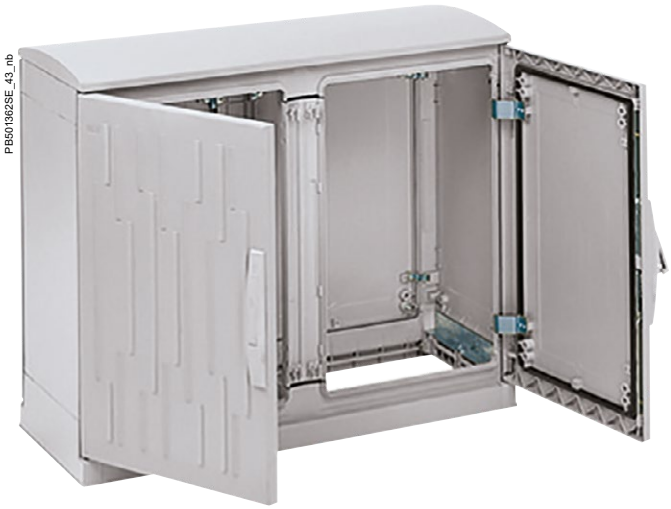
Panel**SeT** PLAZ Version

PB500216SE_19_nb



Panel**SeT** PLAZT Version

PB501362SE_43_nb



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** PLA

Introduction	**160**
Characteristics	**162**
Selection Table	**164**
Accessories	**166**
Dimensions	**168**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** PLA

Introduction



The PanelSeT PLA is a range of fiberglass-reinforced polyester floor-standing enclosures, ideal for outdoor installations, harsh environments, and public areas. It features class II electrical isolation and offers exceptional resistance to fire, vandalism, and corrosion.

It is available in a variety of versions to meet different needs:
- PLA version: Completely sealed enclosure
- PLAT version: Enclosure with a ventilated canopy
- PLAZ version: Enclosure with an open bottom
- PLAZT version: Enclosure with an open bottom and a ventilated canopy.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

Note:
Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure without affecting the technical properties according to IEC 62208. For long-term aesthetics requirements, it is recommended to use painted enclosures available through our customization offer.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PLAT version



Airing
- Open top with canopy allowing passive airing

PLAZ version



Open Bottom
- Open bottom to be mounted directly on the floor or on a plinth

PLAZT version



Easy Installation
- Door opening to 180°
- Ventilated canopy and open bottom



Easy Mounting
- Various bosses for M8 inserts



Smart Interior
- Plain mounting plate installed on step slides and compulsory adapter plates in all the enclosures with open bottom part



Resistant
- Anti-lever security system



Wide offer
- More than 200 options available as standard

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** PLA, PLAT

Characteristics

Characteristics	PLA version	PLAT version
Class II	 PB503694_nb	 PB503702_nb
	Sealed enclosure Enclosure obtained by assembling: • 1 sealed top part, • 1 sealed bottom part, • 2 side parts, • 1 or 2 rear panels (depending on width), • 1 or 2 doors (depending on width). • Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. • Door opening to 120°.	Enclosure with ventilated canopy Enclosure obtained by assembling: • 1 open top part with canopy, • 1 sealed bottom part, • 2 side parts, • 1 or 2 rear panels (depending on width), • 1 or 2 doors (depending on width). • Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. • Door opening to 120°.
Material	Polyester reinforced with fiberglass	
Finish	• Molded by hot compression: the pieces have an excellent finish on both sides and can include numerous bosses for accommodating inserts and mounting or cable management accessories	
Color	• RAL 7035 gray	
Ingress protection rating	IP65 according to IEC 60529	• IP44 according to IEC 60529 • IP54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately.
Mechanical protection rating	IK10 (20 joules) plain door - IEC62262 and IK08 glazed door	
Insulation	• Class II according to IEC 60950-1 if the mounting process follows the included mounting instructions sheet	
Certifications	• UL (cULus). • Single door: NEMA types 1, 2, 3, 3X, 3R, 3RX, 3S, 3SX, 5, 12 and 13 • Double door: NEMA types 1, 2, 3R, 3RX, 5, 12 and 13 • Bureau Veritas Marine • IEC 62208	• IEC 62208
Installation	• Indoor use only. For outdoor use, must install a canopy • Direct fixing to the floor or by means of a plinth with a height of 60 mm, as an option, see page 536 • Option of fixing on a semi-embedded plinth, see page 536 • Optional wall fixing lugs • The versions with glassed door must be protected against the direct sunlight to avoid overheating.	• Outdoor or indoor installation
Options	• Anti-posting door upon request	

Note:
For more information on harsh environments see our PHD offer in the Specific Applications chapter on page 170.

NOTICE

ENCLOSURE PROTECTION

■ Outdoor use requires the installation of a canopy.

■ Glazed door enclosures must be protected against the direct sunlight to avoid overheating.

Failure to follow these instructions can result in equipment damage.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulated Floor-Standing Enclosures
PanelSeT PLAZ, PLAZT
Characteristics

Characteristics	PLAZ version	PLAZT version
Class II		
	Enclosure with open bottom Enclosure obtained by assembling: • 1 sealed top part, • 1 plinth-type open bottom part, • 2 side parts, • 1 or 2 rear panels (depending on width), • 1 or 2 doors (depending on width). • Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. • Door opening to 120°.	Enclosure with open bottom and ventilated canopy Enclosure obtained by assembling: • 1 open top part with canopy, • 1 plinth-type open bottom part, • 2 side parts, • 1 or 2 rear panels (depending on width), • 1 or 2 doors (depending on width). • Locking system with handle with a 5-mm double-bar insert block. Other blocks with inserts or barrels and keys optionally available. • Door opening to 180°. • Anti-lever system to reduce the risk of forcing the door open.
Material	Polyester reinforced with fiberglass	
Finish	• Molded by hot compression: the pieces have an excellent finish on both sides and can include numerous bosses for accommodating inserts and mounting or cable management accessories	
Color	• RAL 7035 gray	
Ingress protection rating	• IP54 according to IEC 60529	• IP44 according to IEC 60529 • IP54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately
Mechanical protection rating	IK10 (20 joules) plain door - IEC62262 and IK08 glazed door	
Insulation	• Class II according to IEC 60950-1 if the mounting process follows the included mounting instructions sheet	
Certifications	• IEC 62208	
Installation	• Outdoor or indoor installation • The open bottom part forms a 60 mm plinth which is fixed to the floor directly or by means of an optional fixing frame, see page 536, or else it is installed on a semi-embedded plinth, see page 536 • The versions with glassed door must be protected against the direct sunlight to avoid overheating.	
Options	• Anti-posting door upon request	

Note:
For more information on harsh environments see our PHD offer in the Specific Applications chapter on page 170.

NOTICE

ENCLOSURE PROTECTION

- Outdoor use requires the installation of a canopy.
- Glazed door enclosures must be protected against the direct sunlight to avoid overheating.

Failure to follow these instructions can result in equipment damage.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulated Floor-Standing Enclosures

Panel**SeT** PLA, PLAZ

Selection Table

Dimensions (mm)				Completely sealed enclosures, IP65		Enclosures with open bottom part, IP54
						
Height	Width	Depth	N° of doors	Plain	Glazed**	Plain
500	500	320	1	**NSYPLA553G**	**NSYPLA553TG**	**NSYPLAZ553G**
500	500	420	1	**NSYPLA554G**	**NSYPLA554TG**	**NSYPLAZ554G**
500	750	320	1	**NSYPLA573G**	**NSYPLA573TG**	**NSYPLAZ573G**
500	750	420	1	**NSYPLA574G**	**NSYPLA574TG**	**NSYPLAZ574G**
500	1000	320	2	**NSYPLA5103G**	-	-
500	1000	420	2	**NSYPLA5104G**	-	-
500	1250	320	2	**NSYPLA5123G**	-	-
500	1250	420	2	**NSYPLA5124G**	-	-
750	500	320	1	**NSYPLA753G**	**NSYPLA753TG**	**NSYPLAZ753G**
750	500	420	1	**NSYPLA754G**	**NSYPLA754TG**	**NSYPLAZ754G**
750	750	320	1	**NSYPLA773G**	**NSYPLA773TG**	**NSYPLAZ773G**
750	750	420	1	**NSYPLA774G**	**NSYPLA774TG**	**NSYPLAZ774G**
750	750	620	1	**NSYPLA776G**	**NSYPLA776TG**	**NSYPLAZ776G**
750	1000	320	2	**NSYPLA7103G**	**NSYPLA7103TG**	**NSYPLAZ7103G**
750	1000	420	2	**NSYPLA7104G**	**NSYPLA7104TG**	**NSYPLAZ7104G**
750	1250	320	2	**NSYPLA7123G**	**NSYPLA7123TG**	**NSYPLAZ7123G**
750	1250	420	2	**NSYPLA7124G**	**NSYPLA7124TG**	**NSYPLAZ7124G**
1000	500	320	1	**NSYPLA1053G**	**NSYPLA1053TG**	**NSYPLAZ1053G**
1000	500	420	1	**NSYPLA1054G**	**NSYPLA1054TG**	**NSYPLAZ1054G**
1000	750	320	1	**NSYPLA1073G**	**NSYPLA1073TG**	**NSYPLAZ1073G**
1000	750	420	1	**NSYPLA1074G**	**NSYPLA1074TG**	**NSYPLAZ1074G**
1000	1000	320	2	**NSYPLA10103G**	**NSYPLA10103TG**	**NSYPLAZ10103G**
1000	1000	420	2	**NSYPLA10104G**	**NSYPLA10104TG**	**NSYPLAZ10104G**
1000	1250	320	2	**NSYPLA10123G**	**NSYPLA10123TG**	**NSYPLAZ10123G**
1000	1250	420	2	**NSYPLA10124G**	**NSYPLA10124TG**	**NSYPLAZ10124G**
1250	500	320	1	**NSYPLA1253G**	**NSYPLA1253TG**	**NSYPLAZ1253G**
1250	500	420	1	**NSYPLA1254G**	**NSYPLA1254TG**	**NSYPLAZ1254G**
1250	750	320	1	**NSYPLA1273G**	**NSYPLA1273TG**	**NSYPLAZ1273G**
1250	750	420	1	**NSYPLA1274G**	**NSYPLA1274TG**	**NSYPLAZ1274G**
1250	750	620	1	**NSYPLA1276G**	**NSYPLA1276TG**	**NSYPLAZ1276G**
1250	1000	320	2	**NSYPLA12103G**	**NSYPLA12103TG**	**NSYPLAZ12103G**
1250	1000	420	2	**NSYPLA12104G**	**NSYPLA12104TG**	**NSYPLAZ12104G**
1250	1250	320	2	**NSYPLA12123G**	**NSYPLA12123TG**	**NSYPLAZ12123G**
1250	1250	420	2	**NSYPLA12124G**	**NSYPLA12124TG**	**NSYPLAZ12124G**
1250	1250	620	2	**NSYPLA12126G**	**NSYPLA12126TG**	**NSYPLAZ12126G**
1500	500	320	1	**NSYPLA1553G**	**NSYPLA1553TG**	**NSYPLAZ1553G**
1500	500	420	1	**NSYPLA1554G**	**NSYPLA1554TG**	**NSYPLAZ1554G**
1500	750	320	1	**NSYPLA1573G**	**NSYPLA1573TG**	**NSYPLAZ1573G**
1500	750	420	1	**NSYPLA1574G**	**NSYPLA1574TG**	**NSYPLAZ1574G**
1500	750	620	1	**NSYPLA1576G**	**NSYPLA1576TG**	**NSYPLAZ1576G**
1500	1000	320	2	**NSYPLA15103G**	**NSYPLA15103TG**	**NSYPLAZ15103G**
1500	1000	420	2	**NSYPLA15104G**	**NSYPLA15104TG**	**NSYPLAZ15104G**
1500	1250	320	2	**NSYPLA15123G**	**NSYPLA15123TG**	**NSYPLAZ15123G**
1500	1250	420	2	**NSYPLA15124G**	**NSYPLA15124TG**	**NSYPLAZ15124G**
1500	1250	620	2	**NSYPLA15126G**	**NSYPLA15126TG**	**NSYPLAZ15126G**
2000	750	420	2*	**NSYPLA2074G**	**NSYPLA2074TG**	**NSYPLAZ2074G**

*Two doors in vertical.

**Recommended to protect against the direct UV radiation.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulated Floor-Standing Enclosures
Panel**SeT** PLAT, PLAZT
Selection Table

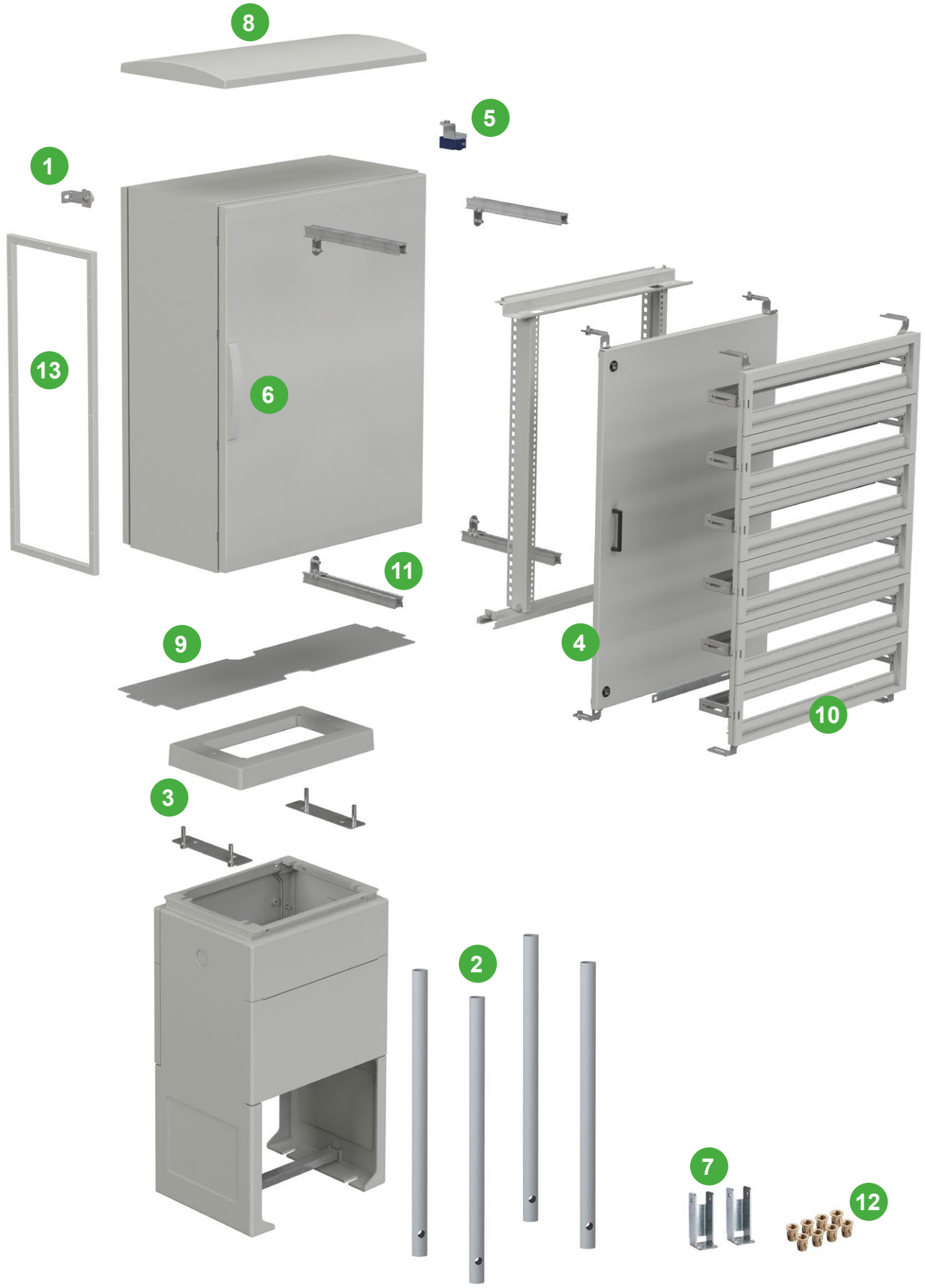
Dimensions (mm)				Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44
				 PB503702_nb	 PB503703_nb
Height	Width	Depth	N° of doors	Plain	Plain
500	500	320	1	**NSYPLAT553G**	**NSYPLAZT553G**
500	500	420	1	**NSYPLAT554G**	**NSYPLAZT554G**
500	750	320	1	**NSYPLAT573G**	**NSYPLAZT573G**
500	750	420	1	**NSYPLAT574G**	**NSYPLAZT574G**
500	1000	320	2	-	-
500	1000	420	2	-	-
500	1250	320	2	-	-
500	1250	420	2	-	-
750	500	320	1	**NSYPLAT753G**	**NSYPLAZT753G**
750	500	420	1	**NSYPLAT754G**	**NSYPLAZT754G**
750	750	320	1	**NSYPLAT773G**	**NSYPLAZT773G**
750	750	420	1	**NSYPLAT774G**	**NSYPLAZT774G**
750	750	620	1	**NSYPLAT776G**	**NSYPLAZT776G**
750	1000	320	2	**NSYPLAT7103G**	**NSYPLAZT7103G**
750	1000	420	2	**NSYPLAT7104G**	**NSYPLAZT7104G**
750	1250	320	2	**NSYPLAT7123G**	**NSYPLAZT7123G**
750	1250	420	2	**NSYPLAT7124G**	**NSYPLAZT7124G**
1000	500	320	1	**NSYPLAT1053G**	**NSYPLAZT1053G**
1000	500	420	1	**NSYPLAT1054G**	**NSYPLAZT1054G**
1000	750	320	1	**NSYPLAT1073G**	**NSYPLAZT1073G**
1000	750	420	1	**NSYPLAT1074G**	**NSYPLAZT1074G**
1000	1000	320	2	**NSYPLAT10103G**	**NSYPLAZT10103G**
1000	1000	420	2	**NSYPLAT10104G**	**NSYPLAZT10104G**
1000	1250	320	2	**NSYPLAT10123G**	**NSYPLAZT10123G**
1000	1250	420	2	**NSYPLAT10124G**	**NSYPLAZT10124G**
1250	500	320	1	**NSYPLAT1253G**	**NSYPLAZT1253G**
1250	500	420	1	**NSYPLAT1254G**	**NSYPLAZT1254G**
1250	750	320	1	**NSYPLAT1273G**	**NSYPLAZT1273G**
1250	750	420	1	**NSYPLAT1274G**	**NSYPLAZT1274G**
1250	750	620	1	**NSYPLAT1276G**	**NSYPLAZT1276G**
1250	1000	320	2	**NSYPLAT12103G**	**NSYPLAZT12103G**
1250	1000	420	2	**NSYPLAT12104G**	**NSYPLAZT12104G**
1250	1250	320	2	**NSYPLAT12123G**	**NSYPLAZT12123G**
1250	1250	420	2	**NSYPLAT12124G**	**NSYPLAZT12124G**
1250	1250	620	2	**NSYPLAT12126G**	**NSYPLAZT12126G**
1500	500	320	1	**NSYPLAT1553G**	**NSYPLAZT1553G**
1500	500	420	1	**NSYPLAT1554G**	**NSYPLAZT1554G**
1500	750	320	1	**NSYPLAT1573G**	**NSYPLAZT1573G**
1500	750	420	1	**NSYPLAT1574G**	**NSYPLAZT1574G**
1500	750	620	1	**NSYPLAT1576G**	**NSYPLAZT1576G**
1500	1000	320	2	**NSYPLAT15103G**	**NSYPLAZT15103G**
1500	1000	420	2	**NSYPLAT15104G**	**NSYPLAZT15104G**
1500	1250	320	2	**NSYPLAT15123G**	**NSYPLAZT15123G**
1500	1250	420	2	**NSYPLAT15124G**	**NSYPLAZT15124G**
1500	1250	620	2	**NSYPLAT15126G**	**NSYPLAZT15126G**
2000	750	420	2*	**NSYPLAT2074G**	**NSYPLAZT2074G**

*Two doors in vertical.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

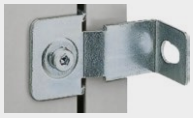
Panel**SeT** PLA

Accessories



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fixing Accessories

1

Wall fixing lug
See details p. 523

2

Feet for buried Installation
See details p. 538

3

Plinth and plinth accessories
See details p. 536

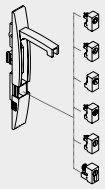
Door Accessories

4

Internal door
See details p. 569

5

Door switch
See details p. 581

6

Inserts, keys, locks and handles
See details p. 578

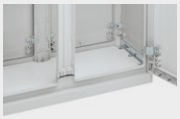
7

Intermediate support in two floor enclosures
See details p. 593

Other Accessories

8

Canopy
See details p. 527

9

PLAZ PLATZ
Cable entry plate
See details p. 563

10

Chassis
See details p. 506

11

Step slides, plates and additionnal supports
See details p. 512

12

Inserts
See details p. 592

13

Coupling kit
See details p. 520

> For more information consult the Accessories chapter **page 472**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

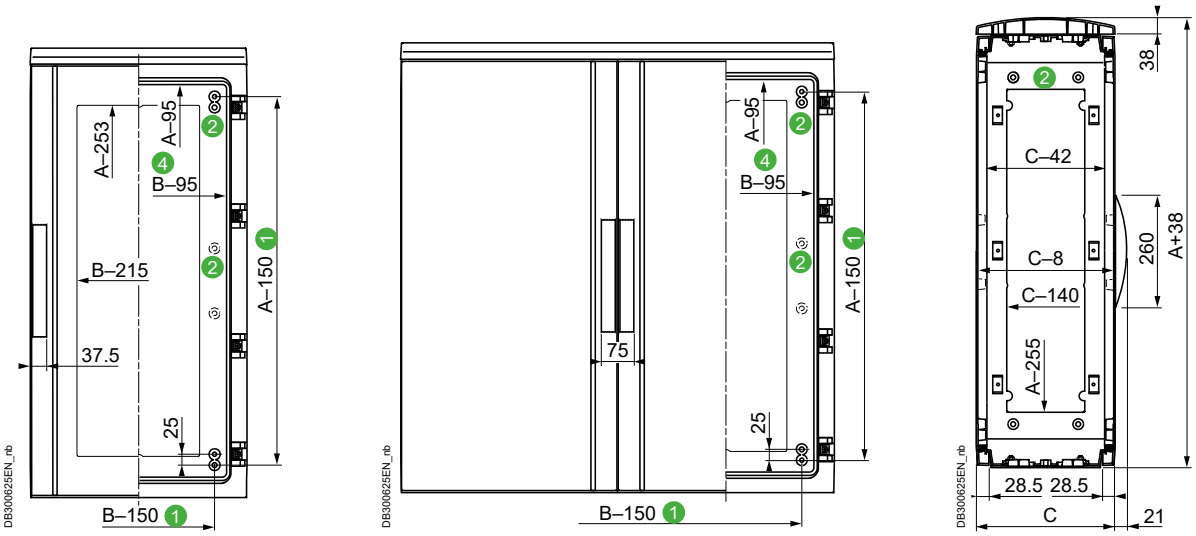
Insulated Floor-Standing Enclosures

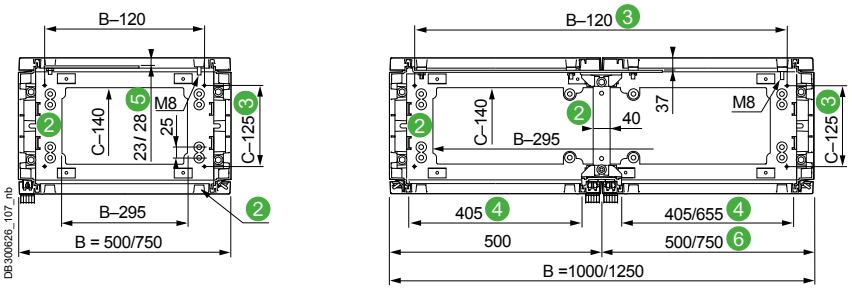
Panel**SeT** PLA, PLAT, PHD

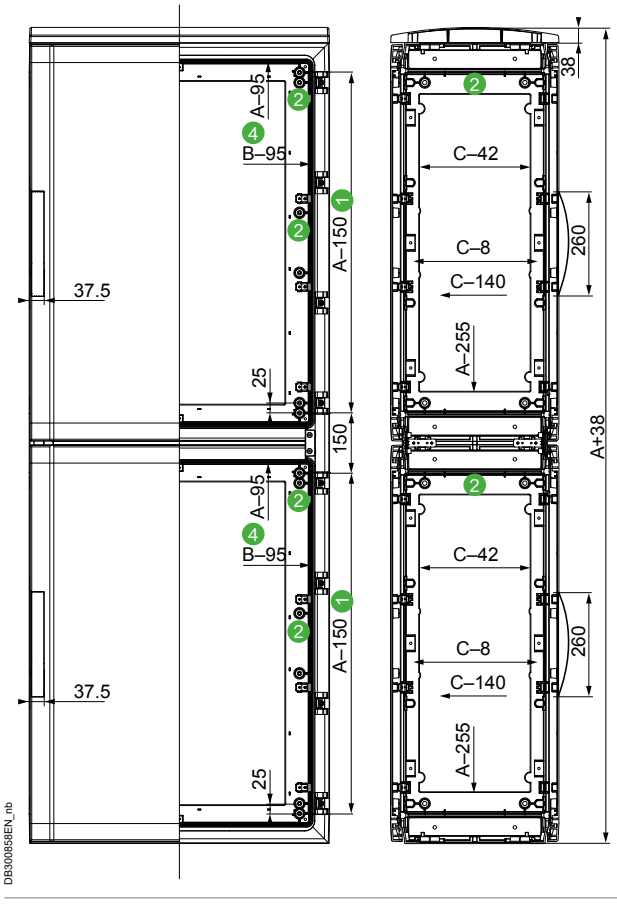
Dimensions

Sealed Enclosure or Enclosure with Ventilated Canopy

For enclosures without canopy, please just disregard the related 38 mm.





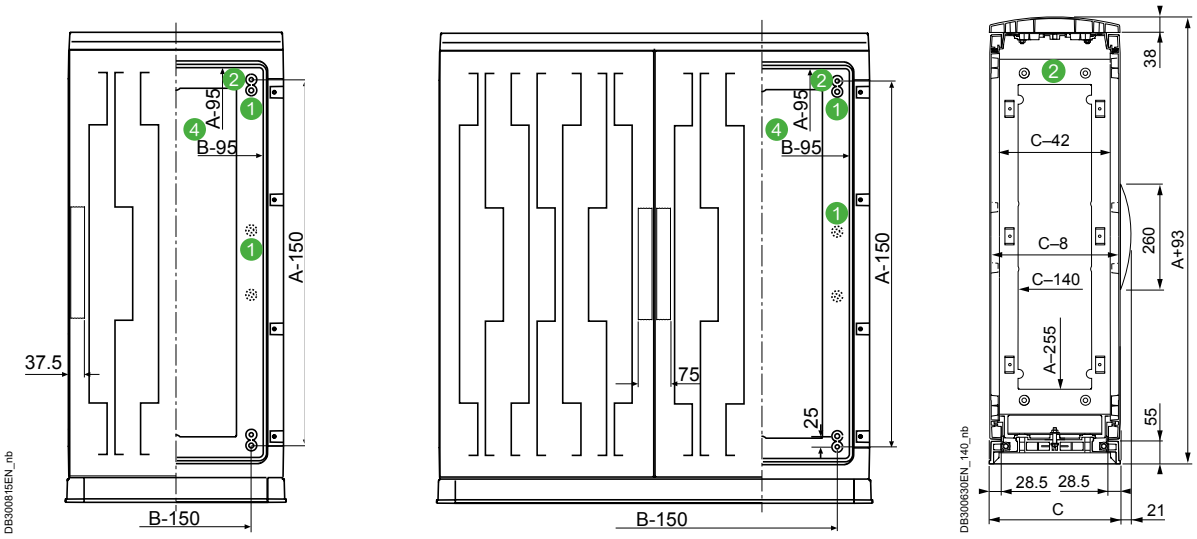


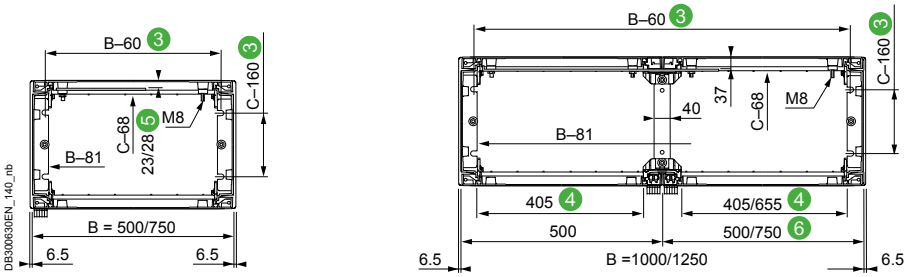
1. 4 bosses with M8 inserts and studs for direct fixing of mounting plates.
2. Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:
   – On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.
   – On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19” chassis, etc.
3. Dimensions for fixing on the floor or on a plinth.
4. Entry dimensions, door open.
5. Dimension of 28 mm for enclosures with heights of more than 1000 mm (height after the installation of the plain mounting plates with reinforcement foldings).
6. With a width of 1250 mm in standard supply, 500 mm door on the left and 750 mm door on the right.

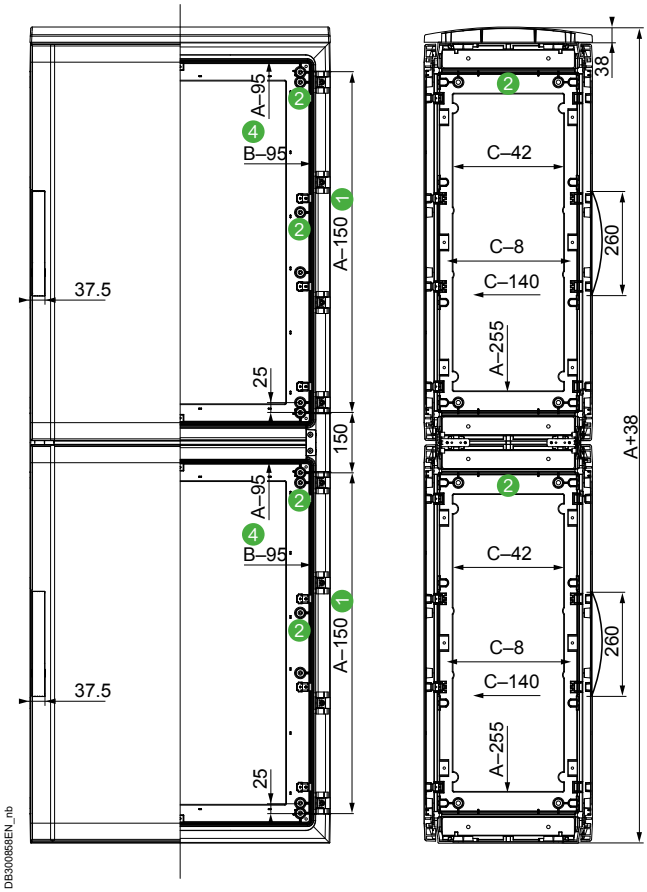
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Enclosures with Open Bottom - Plinth Type with or without Ventilated Canopy

For enclosures without canopy, please disregard the corresponding 38 mm.







1. 4 bosses with M8 inserts and studs for direct fixing of mounting plates.
2. Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:
   – On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.
   – On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19” chassis, etc.
3. Dimensions for fixing on the floor or on a plinth.
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6. With a width of 1250 mm in standard supply, 500 mm door on the left and 750 mm door on the right.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Specific Applications Enclosures

Electrical Distribution

Image 08



PBS02995_140_nb



Human Machine Interface

New



Network and Server

New



Seismic Environments

New



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Content

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Motor Control Center	236
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Network and Server	302
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Seismic Environments	344
Explosive Atmospheres	370
Electro Magnetic Compatibility	382
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Automotive Application	394

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Specific Applications

Electrical Distribution

Prisma**SeT** HD: Functional System

Image 08



Panel**SeT** SFN-SM: Steel Floor-Standing Enclosure



Panel**SeT** PLA: Polyester Floor-Standing Enclosures



Panel**SeT** S3DM-S3DB: Steel Wall-Mounted Enclosures



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Prisma**SeT** HD - Functional System

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Panel**SeT** SFN-SM: Steel Floor-Standing Enclosures

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Accessories for Low Voltage Switchboards	203
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Panel**SeT** PLA: Polyester Floor-Standing Enclosures

IEC 61439-2 Certification	231

Panel**SeT** S3DM-S3DB: Steel Wall-Mounted Enclosures

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PrismaSeT HD: Functional System

Introduction

The PrismaSeT HD system can be used for all types of low-voltage distribution switchboards up to 6300 A for harsh environments.



An Easy-to-Design Switchboard

1 Metal structure

Made up of one or more pre-assembled frameworks combined side-by-side or back-to-back.

2 Distribution system

Horizontal busbars running on the top or bottom and vertical busbars positioned in a lateral compartment or at the rear of the enclosure are used to distribute electricity throughout the switchboard.

3 Complete functional units

Each functional unit contributes to a function in the switchboard. The functional units are modular and are arranged rationally. The system includes:

- Dedicated mounting plate for device installation
- Front plate to block direct access to live parts
- Devices for on-site connections.

The components of the PrismaSeT HD and those of the functional units in particular have been designed and tested taking into account device characteristics. This design approach provides a high degree of reliability in system operation.



Advantages of PrismaSeT System Switchboards

1 Enhanced electrical installation

Full compatibility of Schneider Electric devices with the PrismaSeT HD system is a key advantage for installation reliability.

2 Upgradeable electrical installation

Thanks to modular design, PrismaSeT HD switchboards can be modified easily to integrate new functional units as needed or to be combined with your PanelSeT SFN control panel cabinets.

3 Improved safety for personnel

To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible. Additional internal protection (partitions, barriers) is available for protection against direct contact with live parts according to form of separation 2, 3 or 4.
Terminal shields are mandatory for installation of ComPacT NSX and INS/INV devices in PrismaSeT HD enclosures.

4 Connected solution up to 4000 A

Remote supervision enables monitoring of the switchboard to improve:

- Fire prevention
- Power availability
- Energy management

⚠⚠ DANGER

RISK OF ELECTRICAL SHOCK

Work in a switchboard must only be carried out by authorized persons in compliance with all applicable safety regulations.

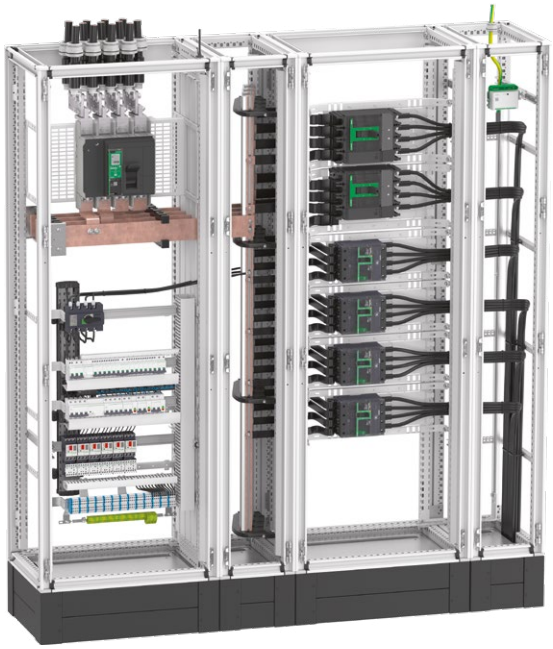
Failure to follow these instructions will result in death or serious injury.

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PrismaSeT HD: Functional System

Introduction

Components in the PrismaSeT HD system enables the compliance of switchboards with standards IEC 61439-1 + 2.



Mechanical Characteristics up to 4000 A*

- Steel sheet metal.
- Structured finish, epoxy polyester powder.
- Two options:
  - White color RAL 9003 outside and inside
  - Gray color RAL 7035 outside and white color inside (for the PrismaSeT references)
- Can be dismantled.
- Can be combined side-by-side and back-to-back.
- Degree of protection: IP55 according to IEC 60529.
- Degree of protection against mechanical impacts: IK10 (IK08 for the glazed-door) according to IEC 62262.

Framework dimensions

Two widths:

- W 300: Cable management or vertical busbar compartment
- W 700: Device compartment

Three depths:

- D500 up to 1600 A with incoming MasterPacT NT and MTZ1 only
- D600 up to 1600 A with incoming MasterPacT NT and MTZ1 only. Option to connect with cables from rear
- D800 up to 4000 A with incoming MasterPacT NT and MTZ1 or NW and MTZ2. Option to connect to cables from rear or to connect to rear vertical busbars
- Height: 2000 mm
- Enclosures for indoor installation.



* For more information about PrismaSeT 6300 and for solutions up to 6300 A see the catalog PrismaSeT 6300
UEMKCAT008EN

Electrical Characteristics

- Rated insulation level of main busbars: 1000 V.
- Rated operational current Ie: 4000 A.
- Rated peak withstand current Ipk: 220 kA.
- Rated short-time withstand current I_{cw}: 100 kA rms/1 second.
- Frequency: 50/60 Hz.

Electrical switchboards built using the PrismaSeT functional system and Schneider Electric recommendations fully comply with international standard IEC 61439-2.

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PrismaSeT HD: Functional System

Introduction

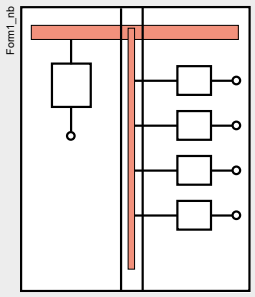
Partitioning forms according to IEC 61439-2
Decisions concerning the form of separation, and the degree of protection are subject to a joint agreement between manufacturer and Customer.

Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

The protection of life and property is a standard feature due to:
- Front plates that require a tool to be removed
- Keylock on doors providing Access to live parts
- The systematic installation of terminal shields on ComPacT NSX circuit breakers and ComPacT INS and INV switch-disconnectors
- Covering of the upstream and downstream terminals on the incoming device so that operators are perfectly safe at all points in the switchboard when the incoming device is off (open).

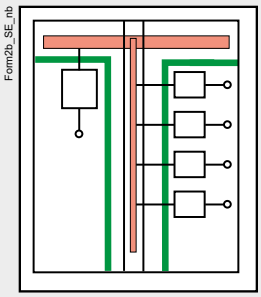
What is more, PrismaSeT HD offers different levels of partitioning to create separations inside the enclosures, thereby creating Form 2b, 3b, 4a and 4b electrical switchboard. Electrical switchboards must meet the IP2X degree of protection to comply with standard IEC 61439-2.

Form 1



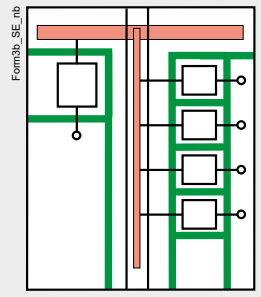
In most installations, PrismaSeT HD enclosures does not require partitioning. In this case, the switchboard is a Form 1

Form 2b



The partitioning separates busbars from:
- Terminals for external conductors
- The functional units and the terminals

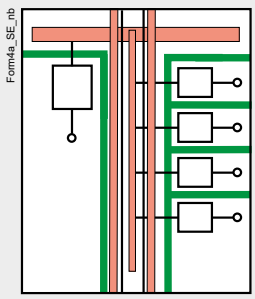
Form 3b



The partitioning separates:
- Busbars from terminals for external conductors
- Functional units from each other and from the busbars

Terminals aren't separated from each other

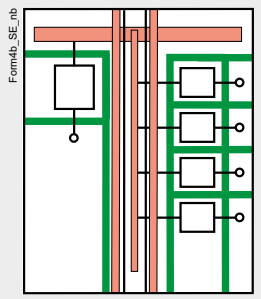
Form 4a



The partitioning separates:
- Busbars from terminals for external conductors
- Functional units from each other and from the busbars

Terminals for external conductors in the same compartment as the associated functional unit

Form 4b



The partitioning separates:
- Busbars from terminals for external conductors
- Functional units from each other and from the busbars
- Terminals for external conductors between them

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PrismaSeT HD: Functional System

Introduction

Upgradable Functional Units

Functional units include switchgear mounting plates, front plates, connection supports, barriers, etc.



MasterPacT MTZ2
from 800 to 4000 A



MasterPacT MTZ1
from 600 to 1600 A



ComPacT NSX
up to 630 A



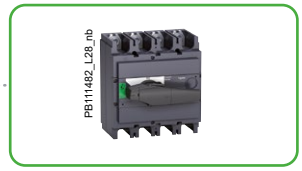
ComPacT NS
from 630b to 1600 A



ComPacT NS
up to 3200 A



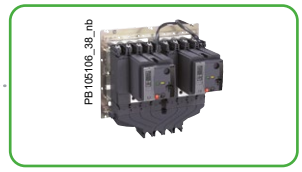
EasyPact
from 100 to 630 A



ComPacT INS-INV250-630 A



ComPacT INS-INV630-2500 A



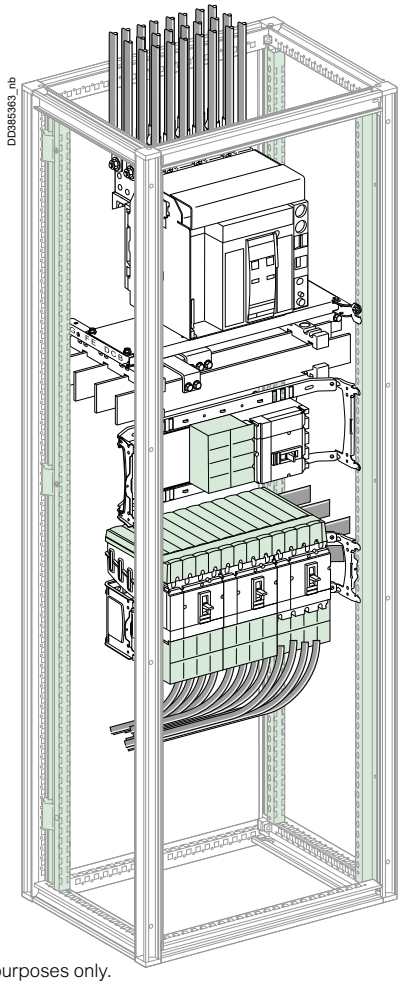
Source changeover systems
ComPacT/MasterPacT



Source changeover systems
ComPacT INS



FuPact from 32 to 1250 A



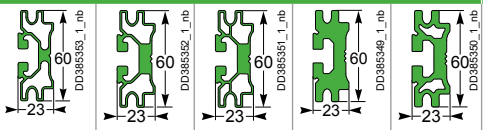
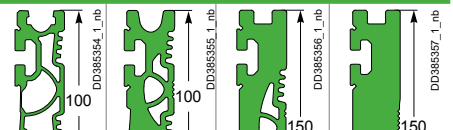
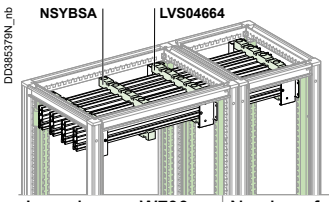
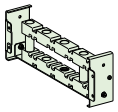
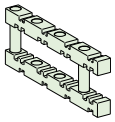
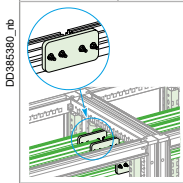
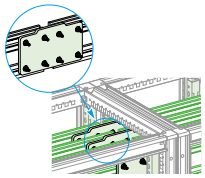
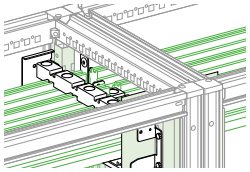
For more information see catalog PrismaSeT P **DESW024EN**

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PrismaSeT HD: Functional System

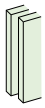
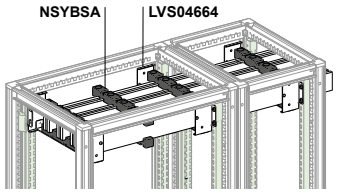
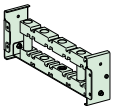
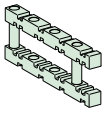
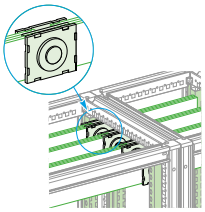
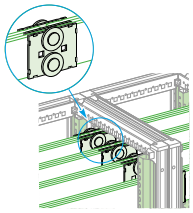
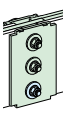
Busbar Selection

Linergy LGYE - Horizontal Profiles up to 4000 A

Installation in PrismaSeT HD		Up to 1600 A					Up to 4000 A			
Linergy profile, 2000 mm length										
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ⩽ 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3620 A
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Number of profiles per phase		1								
Total number of vertical modules (50 mm)		3					3		4	
References		**LVS04560**	**LVS04561**	**LVS04562**	**LVS04563**	**LVS04564**	**LVS04565**	**LVS04566**	**LVS04567**	**LVS04568**
Busbar supports										
		 Fixed Support **LVS04664**					 Free Support **NSYBSA**			
		2 fixed supports for PrismaSeT HD 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.								
In enclosure: W700 busbar supports with 75 mm distance between bars	Number of supports depending on I_{cw} (kA rms/1 s) ≤ 15	2								
	≤ 25	2								
	≤ 30	2								
	≤ 40	-		2						
	≤ 50	-			2					
	≤ 60	-			2+1		2			
	≤ 65	-				2+1				
	≤ 75	-				2+1				
	≤ 85	-				2+1				
	≤ 100	-					2+2			
References Fixed support		LVS04664					**LVS04664 + LVS04671** (order 1 per support)		**LVS04664 + LVS04646** (sold in lots of 12 spacers)	
References Free support		**NSYBSA**					**NSYBSA + LVS04671** (order 1 per support)		**NSYBSA + LVS04646** (sold in lots of 12 spacers)	
In duct: W300 busbar supports with 75 mm distance between bars	Number of supports depending on I_{cw} (kA rms/1 s) ≤ 15	1								
	≤ 25	1								
	≤ 30	1								
	≤ 40	1								
	≤ 50	1								
	≤ 60	1								
	≤ 65	1 + 1								
	≤ 75	1 + 1								
	≤ 85	1 + 1								
	≤ 100	-					1 + 1			
References Fixed support		LVS04664					**LVS04664 + LVS04671** (order 1 per support)		**LVS04664 + LVS04646** (sold in lots of 12 spacers)	
References Free support		**NSYBSA**					**NSYBSA** + **LVS04671** (order 1 per support)		**NSYBSA** + **LVS04646** (sold in lots of 12 spacers)	
Joints		Up to 1600 A					Up to 4000 A			
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
										
		LVS04620		**LVS04623**			**LVS04624**			
References (3P)		3x **LVS04620**					3x **LVS04621**		3x **LVS04623**	
References (4P)		4x **LVS04620** + **LVS04624**					4x **LVS04621** + **LVS04624**		4x **LVS04623** + **LVS04624**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Linergy BS - Horizontal Flat Busbars up to 4000 A

Installation in PrismaSeT HD		Up to 1600 A				Up to 4000 A					
Copper bar, 2000 mm length											
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ⩽ 31	800 A	1000 A	1400 A	1800 A	1800 A	2050 A	2300 A	2820 A	3300 A	3760 A
	IP > 31	750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A	2900 A	3340 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of busbars per phase		1	1	2	2	1	2	2	2	2	2
Total number of vertical modules (50 mm)		3									4
References		**LVS04536**	**LVS04538**	**LVS04536**	**LVS04538**	**LVS04548**	**LVS04545**	**LVS04546**	**LVS04548**	**LVS04550**	**LVS04552**
Busbar supports			Fixed Support **LVS04664** 			Free Support **NSYBSA** 					
		2 fixed supports for PrismaSeT HD 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.									
In enclosure: W700 with 75 mm distance between bars	Number of supports depending on I_{cw} (kA rms/1 s) ≤ 15	2									
	≤ 25	2+1	2								
	≤ 30	2+1	2								
	≤ 40	2+1				2					
	≤ 50	-	2+1					2			
	≤ 60	-				2+1					
	≤ 65	-				2+1					
	≤ 75	-				2+2	2+1				
	≤ 85	-				-		2+1			
References Fixed support		**LVS04664**				LVS04664			LVS04664 + LVS04671		
References Free support		**NSYBSA**				NSYBSA			NSYBSA + LVS04671		
In duct: W300 with 75 mm distance between bars	Number depending on I_{cw} (kA rms/1 s) ≤ 30	1									
	≤ 50	1+1				1					
	≤ 85	-				2					
References (depending on depth) Fixed support		**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800)				**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800)			**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800) + **LVS04671**		
References (depending on depth) Free support		**NSYBSA**				**NSYBSA**			**NSYBSA + LVS04671**		
Joints		**Up to 1600 A**				**Up to 4000 A**					
		1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase				
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with self-breaking lock nut		 LVS04640			 LVS04641						
References		**LVS04640**	**LVS04641**	**LVS04640**	**LVS04641**	**LVS04641**	**LVS04640**	**LVS04640**	**LVS04641**	**LVS04641**	**LVS04643**

⚠⚠ WARNING

RISK OF ELECTRIC SHOCK AND ARC FLASH

- Reference **LVS04624** is compulsory when installing jointed Linergy LGYE 4P busbars and must be fitted where the frames meet. When installed at the bottom of an enclosure, the busbar must be partitioned.
- When installed at the bottom of an enclosure, the busbar must be partitioned.

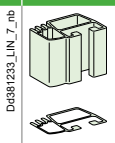
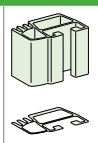
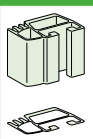
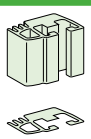
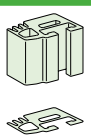
Failure to follow these instructions could result in death or serious injury.

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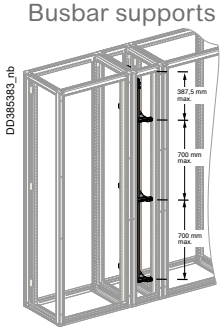
PrismaSeT HD: Functional System

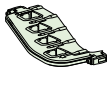
Busbar Selection

Linergy LGY - Lateral Profiles up to 1600 A

In PrismaSeT HD duct		W300				
		 DD381233_LIN_7_nb	 DD381234_LIN_7_nb	 DD381235_LIN_7_nb	 DD381236_LIN_7_nb	 DD381237_LIN_7_nb
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ⩽ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
References		**LVS04502**	**LVS04503**	**LVS04504**	**LVS04505**	**LVS04506**

Busbar supports



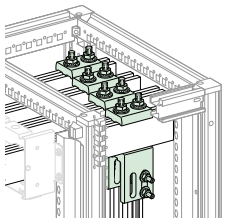
 DD380741_LIN_nb

 DD380742_LIN_12_nb

Fixed Support **LVS04651**

Number depending on I_{cw} (kA rms/1 s)	⩽ 25	3				
	⩽ 30	-	3			
	⩽ 40	-		3		
	⩽ 50	-			4	
	⩽ 60	-			5	
	⩽ 65	-				5
	⩽ 75	-				7
Only for enclosures with a depth ≥ 500 mm	⩽ 85	-				8
References		**LVS04651** (set of 2 upright adapters **NSYSFPAED** for installation in PrismaSeT HD enclosure)				

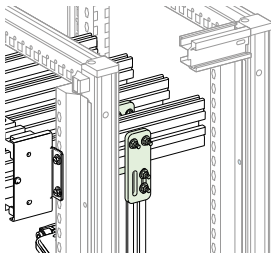
Connections to the Linergy BS horizontal busbar

 DD385409_nb

Note:
Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.

References according to horizontal busbar size	**5 mm thick**	**LVS04634**	**LVS04635**	
	10 mm thick	**Width ⩽ 80 mm**	**LVS04636**	
	10 mm thick	**Width > 80 mm**	**LVS04636 + LVS04642** **LVS04638 + LVS04642**	

Connections to the Linergy LGYE horizontal busbar

 DD385387_nb

Note:
Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.

References (vertical connection)	**LVS04602**
References (vertical shifted connection)	**LVS04603**

NOTICE

FITTING OF END STOP

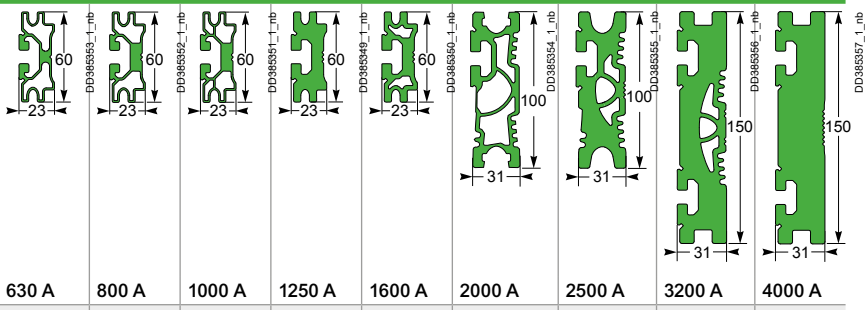
An end stop must be fitted on the bottom support: **LVS01109** (sold in lots of 12).

Failure to follow these instructions can result in equipment damage.

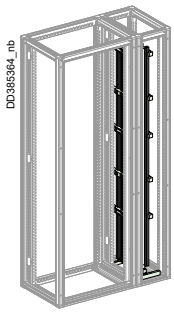
(1) Dedicated connection **LVS04603** for Linergy LGYE busbar in 150 mm duct with horizontal jointing.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

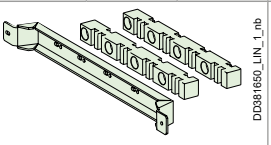
Linergy LGYE - Lateral Profiles up to 4000 A

In PrismaSeT HD duct		W300								
Linergy profile, 2000 mm length										
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP <= 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3620 A
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Length to cut for side-mounted		1675 mm							1625 mm	
Number of profiles per phase		1								
Height available (mm)		150					150		200	
References		**LVS04560**	**LVS04561**	**LVS04562**	**LVS04563**	**LVS04564**	**LVS04565**	**LVS04566**	**LVS04509**	**LVS04510**

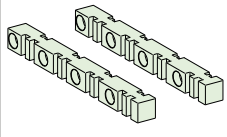
Busbar supports



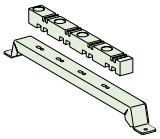
Number depending on I_{cw} (kA rms/1 s)									
	≤ 30	3							
	≤ 40	-	3+2 *				3		
	≤ 50	-		3+2 *			3		
	≤ 60	-			3+2 *			3	
	≤ 65	-				3+2 *			
	≤ 75	-				3+4 **		3+2 *	
	≤ 85	-				3+4 **			
	≤ 100	-					3+6 ***		



Fixed Support **NSYBVS500**



Free Support **NSYBSA**



Bottom Support **NSYAS500**

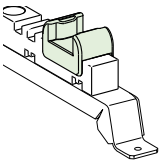
3 fixed supports are compulsory to hold the busbar in position.
If more than 3 supports are needed, use free supports (in addition).

References* 75 mm distance between bars	W300, D500	**NSYBVS500** (fixed) + **NSYBSA** (free) + **NSYAS500** (bottom) (1)
	W300, D600	**NSYBVS600** (fixed) + **NSYBSA** (free) + **NSYAS600** (bottom) (1)
	W300, D800	**NSYBVS800** (fixed) + **NSYBSA** (free) + **NSYAS800** (bottom) (1)
References* 115 mm distance between bars	**W300, D800**	**NSYBVS800L** (fixed) + **LVS04678** (free) + **NSYAS800L** (bottom) (1)

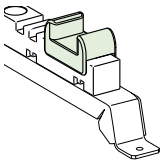
* References of supports depending on distance between bars and duct depth

(1) If using a 100 x 10 bars, add a pack of screws ref. **LVS04671** for each fixed support and free support.

Wedging busbars in position



Wedge Fitted on Bottom Support **LVS04658**



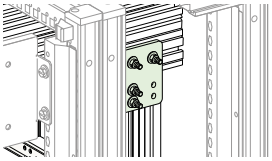
Wedge Fitted on Bottom Support **LVS04659**

The bottom support is used to place profiles in the correct position.
It is not considered to be a busbar support.

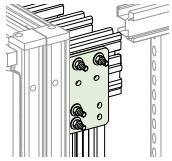
References Wedge	**LVS04658**	**LVS04659**

Connections to the Linergy LGYE horizontal busbar

2000/2500 A



3200/4000 A



Supplied with mounting hardware.
Reference include 1 connection only. Order 1 connection per phase.

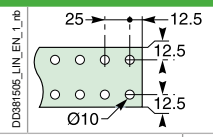
References (short connection)	**LVS04604**	**LVS04607**
References (long connection)	**LVS04605**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

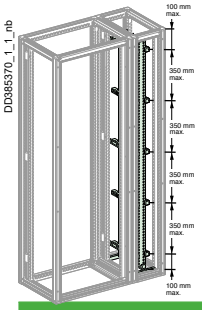
PrismaSeT HD: Functional System

Busbar Selection

Linergy BS - Lateral Flat Busbars up to 3200 A

In PrismaSeT HD duct		W300										
Pre-slotted copper, 1675 mm length												
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3200 A
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Number of profiles per phase		1		2		1			2			
References		**LVS04516**	**LVS04518**	**LVS04516**	**LVS04518**	**LVS04525**	**LVS04526**	**LVS04528**	**LVS04525**	**LVS04526**	**LVS04528**	**LVS04550**(1)

Busbar supports



3 fixed supports are compulsory to hold the busbar in position.
If more than 3 supports are needed, use free supports (in addition).
The bottom wedge support is used to place the busbar in the correct position.
It does not count as a busbar support.

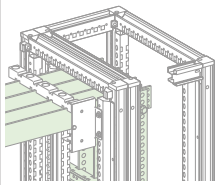
Number of supports depending on I_{cw} (kA rms/1 s)											
	≤ 15	3 *									
	≤ 25	3+2 *			3 *						
	≤ 30	3+2 *									3 *
	≤ 40	3+4		3+2 *							
	≤ 50		3+4			3+2 *					
	≤ 60					3+4					3+2 *
	≤ 65					3+4					3+2 *
	≤ 75						3+6		3+4		
	≤ 85									3+4	

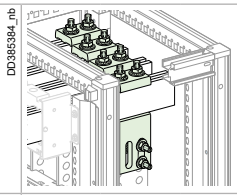
References* 75 mm distance betw. bars	**W300, D500**	**NSYBVS500** (fixed) + **NSYBSA** (free) + **NSYAS500** (bottom) (2)
	W300, D600	**NSYBVS600** (fixed) + **NSYBSA** (free) + **NSYAS600** (bottom) (2)
	W300, D800	**NSYBVS800** (fixed) + **NSYBSA** (free) + **NSYAS800** (bottom) (2)
References* 115 mm distance betw. bars	**W300, D800**	**NSYBVS800L** (fixed) + **LVS04678** (free) + **NSYAS800L** (bottom) (2)

* References. of supports depending on distance between bars and duct depth

(1) Copper bar without holes.
(2) If using a 100 x 10 bars, add a pack of screws ref. **LVS04671** for each fixed support and free support.

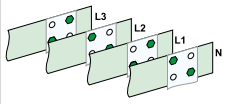
Connections to the Linergy BS horizontal busbar





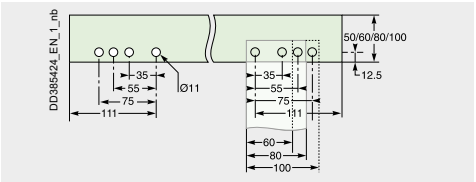
For a busbar with 75 mm distance between bars, the bars are completely covered.
Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(3)

References **LVS04636**, **LVS04637**, **LVS04638** are supplied individually:
1 connection per phase.
Reference **LVS04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.

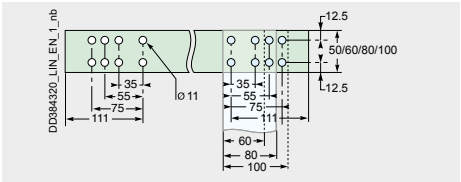


	1 bar per phase		2 bars per phase		1 bar per phase			2 bars per phase			
	60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
References depending on horizontal busbar size **≤ 80 mm**	**LVS04645**				**LVS04636**		**LVS04637**	**LVS04637**			**LVS04645**
> 80 mm	**LVS04645**				**LVS04636 + LVS04642**		**LVS04637 + LVS04642**	**LVS04637 + LVS04642** **LVS04638 + LVS04642**			**LVS04645**

(1) Drill Hole Dimensions for 5 mm Thick Horizontal Busbars



Drill Hole Dimensions for 10 mm Thick Horizontal Busbars

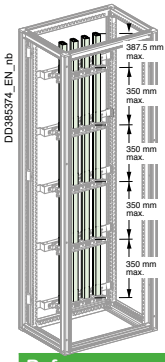


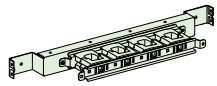
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Linergy LGYE - Rear Profiles up to 1600 A

At the rear of a PrismaSeT HD enclosure		W700				
		DD381233_LIN_7_nb	DD381234_LIN_7_nb	DD381235_LIN_7_nb	DD381236_LIN_7_nb	DD381237_LIN_7_nb
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ⩽ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
References		**LVS04502**	**LVS04503**	**LVS04504**	**LVS04505**	**LVS04506**

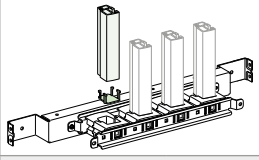
Busbar supports





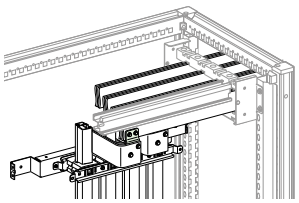
Fixed Support **LVS04652**

Number depending on I_{cw} (kA rms/1 s)					
	⩽ 25	3			
	⩽ 30		4		
	⩽ 40			5	
	⩽ 50				7

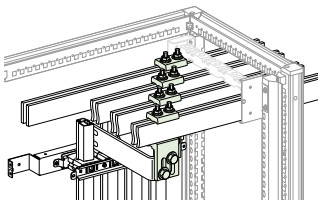


References	LVS04652

Connections to the Linergy BS horizontal flat busbar



LVS04635 Connection to 5 mm Thick Horizontal Busbar

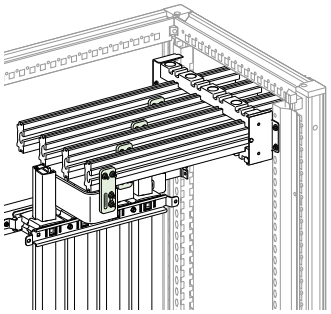


LVS04636 Connection to 10 mm Thick Horizontal Busbar

Fixings supplied, order 1 connection per phase.
Some parts of the connection require flexible insulated busbars.

References according to horizontal busbar size			
	5 mm thick		LVS04635
	10 mm thick	Width ⩽ 80 mm	LVS04636
	10 mm thick	Width > 80 mm	LVS04636 + LVS04642

Connections to the Linergy LGYE horizontal flat busbar



LVS04602 Connection to the Linergy LGYE Horizontal Flat Busbar

Fixings supplied, order 1 connection per phase.
Some parts of the connection require flexible insulated busbars.

References	LVS04602

NOTICE

FITTING OF END STOP

An end stop must be fitted on the bottom support **LVS01109** (sold in lots of 12).

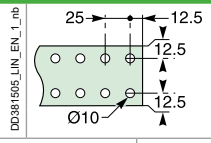
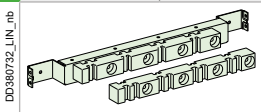
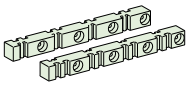
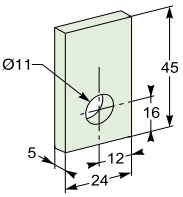
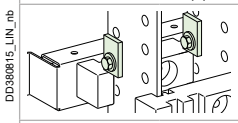
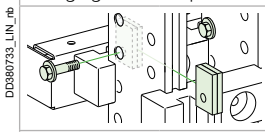
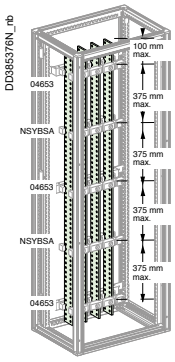
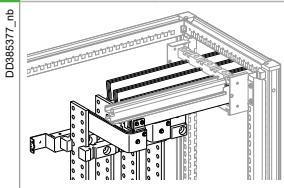
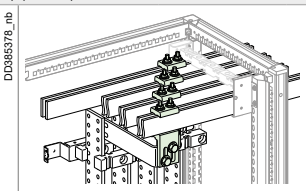
Failure to follow these instructions can result in equipment damage.

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PrismaSeT HD: Functional System

Busbar Selection

Linergy BS - Rear Flat Busbars up to 1600 A

At the rear of a PrismaSeT HD enclosure		W700					
Pre-slotted copper, 1670 mm length							
		800 A	1000 A	1400 A	1000 A	1200 A	1600 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ⩽ 31	800 A	1000 A	1400 A	-	-	-
	IP > 31	750 A	900 A	1250 A	1080 A	1250 A	1600 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2	1		
References		LVS04516	LVS04518	LVS04516	LVS04525	LVS04526	LVS04528
Busbar supports							
		Fixed Busbar Support **LVS04653**		Busbar Free Support **NSYBSA**		Mounting Chocks **LVS04669**	
		3 fixed supports ref. **LVS04653** are compulsory to keep the busbar vertical. If more than 3 supports are needed, use free support ref. **NSYBSA** (in addition). Metal shim ref. **LVS04669** (sold in lots of 100), 5 mm thick, is screwed onto the busbar. It rests on a fixed support and is used to wedge the busbar in position.					
							
		Wedging: 1 busbar/phase					
							
		Wedging: 2 busbars/phase					
 Number depending on I_{cw} (kA rms/1 s)	⩽ 15	3			3		
	⩽ 25	3+2			3		
	⩽ 30	3+2			3+2		
	⩽ 40	3+4		3+2	3+2		
	⩽ 50		3+4		3+2		
	⩽ 60				3+4		
	⩽ 65				3+4		
	⩽ 75					3+6	
	⩽ 85						
References		LVS04653 (fixed) + NSYBSA (free) + LVS04669 (spacer)					
Connections to the Linergy BS horizontal flat busbar							
		LVS04635 Connection to Horizontal Busbar 5 mm Thick			**LVS04636** Connection to Horizontal Busbar 10 mm Thick		
		For part of the connection, flexible insulated busbars are needed. References **LVS04635**, **LVS04636** are supplied individually = 1 connection per phase. Reference **LVS04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.					

References according to horizontal busbar size		
5 mm thick		LVS04635
10 mm thick	Width ⩽ 80 mm	LVS04636 (1)
10 mm thick	Width > 80 mm	LVS04636 + LVS04642 (1)

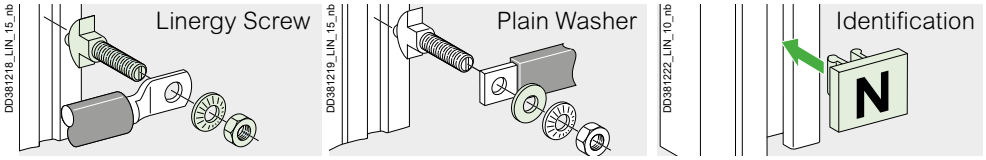
(1) To be made.

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Linergy LGYE - Accessories

Linergy Screw

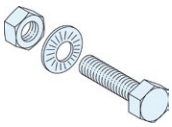
- Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, grade 8.8. The screws slide into the profile and are then locked in the desired position.



Characteristics		AD	References
Steel plain washers	M8 sold in lots of 20	20 mm	**LVS04772**
	M8 sold in lots of 20	24 mm	**LVS04773**
	M8 sold in lots of 20	28 mm	**LVS04774**
Brass plain washers	M8 sold in lots of 20 for connection of ≤ 25 mm² lugs to Linergy	20 mm	LVS04775
Identification	12 clip-on supports + N, L1, L2, L3, PE, PEN labels		**LVS04794**
	Linergy LGYE busbar screw plate kit after sales service		**LVS01130**

M8 Screws

- Set of 20 screws + 20 nuts + 40 contact washers.


LVS04782

Characteristics	References
Linergy BS, 20 screws grade 8.8, M8 x 20	**LVS04782**
Linergy BS, 20 screws grade 8.8, M8 x 25	**LVS04783**
Linergy BS, 20 screws grade 8.8, M8 x 30	**LVS04784**
Linergy BS, 20 screws grade 8.8, M8 x 35	**LVS04785**
Linergy BS, 20 screws grade 8.8, M8 x 40	**LVS04786**
Linergy BS, 20 screws grade 8.8, M8 x 45	**LVS04787**
Linergy BS, 20 screws grade 8.8, M8 x 50	**LVS04788**

Torque Nuts

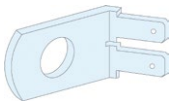
- Can be used to obtain the correct tightening torque (28 Nm) recommended by the manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.


LVS04759

Characteristics	References
20 M8 torque nuts	**LVS04759**

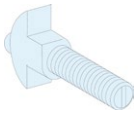
Voltage Tap-Offs

- For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (ref. **LVS04775**) between the busbar and the lug.


LVS04229

Characteristics	References
20 M10 voltage tap-offs for two 6.35 mm tab connectors	**LVS04229**

Connections on Linergy LGYE and LGY


LVS04766


LVS04768


LVS04769

Characteristics	InA	bar	Utilisation	References
Use the 25 mm Linergy screw	0 A to 630 A	Cable Insulated flexible bar	Recommended	**LVS04766**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	0 A to 630 A	Cable Insulated flexible bar	Possible	**LVS04767**
Use the 25 mm Linergy screw	800 A to 1250 A	5 mm thick bar	Recommended	**LVS04766**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	800 A to 1250 A	5 mm thick bar	Possible	**LVS04767**
Use the flat plate screw with 2 studs	800 A to 1250 A	5 mm thick bar	Possible	**LVS04768**
Use the flat plate screw with 2 studs	1600 A to 2500 A	5 or 10 mm thick bar	Recommended	**LVS04768**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	1600 A to 2500 A	5 or 10 mm thick bar	Possible	**LVS04767**
Use the flat plate screw with 3 studs	3200 A to 4000 A	10 mm thick bar	Recommended	**LVS04769**

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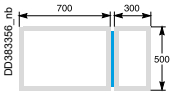
PrismaSeT HD: Functional System

Partitioning

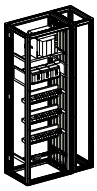
Form 2b Partitioning

Separation of busbars from the functional units:

- Protection against contact with live parts upstream of the outgoing circuits
- Protection against penetration by foreign solid bodies.

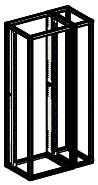


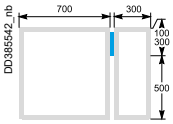
Lateral Partitioning; Form 2 Restoration for Side-Barrier Cut-Out


LVS06545

Characteristics	References
Lateral partitioning • Vertical barrier made of insulated slats. • Can be installed on both sides of Linergy and flat busbars. • The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm², while maintaining the IP2X degree of protection in compliance with standard IEC 60695.2.1 concerning fire resistance.	**LVS06545**
Form 2 restoration for side-barrier cut-out • This kit enables the passage of the connection between a device > 1600 A (MTZ2, INS) and lateral vertical busbars. • It is made up of an insulated plate (six modules H 300 mm) that can be cut as required, supplied with supports and the necessary hardware.	**LVS04924**

Partitioning Extension

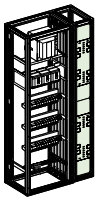

LVS06541

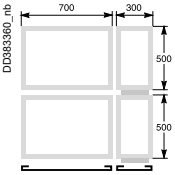


- The partitioning extension is required for PrismaSeT system switchboards with a depth of 600 or 800 mm.

Characteristics	References
D600	**LVS06541**
D800	**LVS06543**

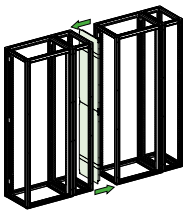
Front and Rear Barrier


LVS06540

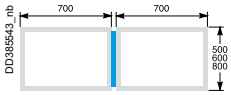


Characteristics	References
• Front protection is provided by the combination of door W300 and this barrier. • Metal barrier, composed of 2 parts H850, pre-cut at both ends. • Rear protection: a barrier is required at the rear of the busbar compartment in enclosures that are 800, 1000 or 1300 mm deep.	**LVS06540**

Inter-Enclosure Partitioning


LVS06555

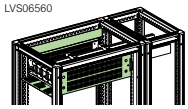
- Metal partition, used to separate two adjacent enclosures.
- It is made up of two panels, each 850 mm high.
- The top and bottom ends have knock-outs for horizontal busbars.
- Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.



Characteristics	References
D500	**LVS06555**
D600	**LVS06555** + **LVS06541**
D800	**LVS06555** + **LVS06543**

Partitioning of Horizontal Busbars


LVS06560


LVS06570

- Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.
- The set can be used to partition horizontal busbars installed at the top or bottom of the enclosure.
- The space required for the busbars is not increased.

Characteristics	References
3M-busbar, W300, D500	**LVS06560**
3M-busbar, W300, D600	**LVS06561**
3M-busbar, W300, D800	**LVS06563**
4M-busbar, W300, D500 or D600 or D800	**LVS06568**
3M-busbar, W700, D500 or D600 or D800	**LVS06570**
4M-busbar, W700, D500 or D600 or D800	**LVS06567**

⚠⚠ WARNING

RISK OF ELECTRIC SHOCK AND ARC FLASH

If the busbars are at the bottom of the enclosure, gland plates are mandatory.

Failure to follow these instructions could result in death or serious injury.

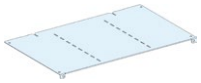
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Form 3b Partitioning

Separation of busbars from the functional units and separation of all functional units from one another.
Separation of the terminals for external conductors from the functional units, but not from each other.

- Protection against contact with live parts
- Reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

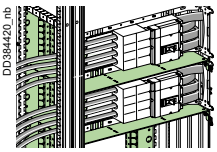
Front Connection



LVS04901

A horizontal metal partition can be used to physically separat functional units from one another.

Characteristics	References
Horizontal metal partition, W650 mm	**LVS04901**



DD384420_nb



LVS04943

It is fixed at the rear by a support (two uprights) secured to the framework (500 mm deep) or to the intermediate uprights (800 mm deep frameworks).

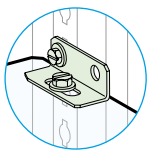
Characteristics	References
Rear support for partitions, W650 mm	**LVS04943**



LVS03583

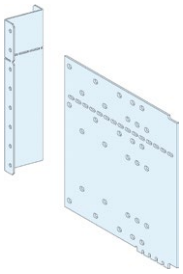
A set of brackets can be used to install partial Form 3 partitioning in the enclosure.
It does not take up any useful space in the switchboard.

Characteristics	References
6 universal angle brackets	**LVS03583**



DD384422_nb

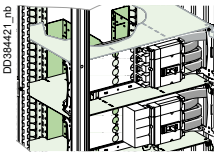
Rear Connection



LVS04955

Vertical partitions (two catalogue number per functional unit)

Characteristics	References
3 to 4 modules	**LVS04955**
5 to 6 modules	**LVS04956**



DD384421_nb

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PrismaSeT HD: Functional System

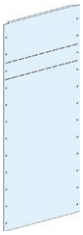
Partitioning

Form 4 Partitioning

Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit.

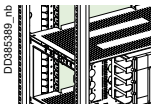
- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- Form 4a: Terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed spaces or compartments.

Form 4a Partition for Front Connection

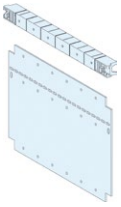

LVS04946

Backplate (one catalogue number per enclosure) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks.

Characteristics	References
Form 4a backplate (one catalogue number per enclosure)	**LVS04946**

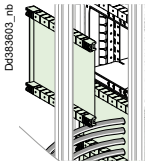


Form 4a Gland Plate

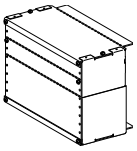

LVS04951

Gland plate that can be easily cut-out (one for each functional unit) and is mounted on the framework.

Characteristics	References
3 or 4 modules	**LVS04951**
5 or 6 modules	**LVS04952**

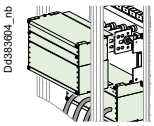


Form 4b Partition

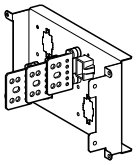

LVS06600

Cover with metal gland plates that can be easily cut-out on the side and bottom. It is available in two heights:

Characteristics	References
3 to 5 modules	**LVS06600**
4 to 6 modules	**LVS06601**



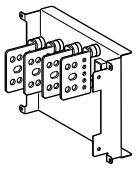
Connection Transfer Assembly, 3 to 5 Modules, 250 A


LVS06606

Transfer assembly without connections to simplify cable installation.

Characteristics	References
3P	**LVS06606**
4P	**LVS06604**

Connection Transfer Assembly, 4 to 6 Modules, 630 A


LVS06605

Transfer assembly without connections to simplify cable installation.

Characteristics	References
3P	**LVS06607**
4P	**LVS06605**

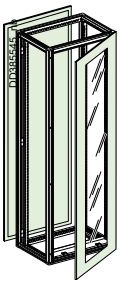
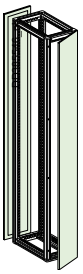
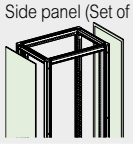
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PrismaSeT HD: Functional System

Cubicle Selection

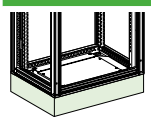
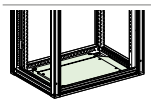
Common Characteristics

- Roof characteristics:
  - equipped with a factory-mounted polyurethane (PUR) gasket
  - supplied with mounting hardware
  - with markings for clear identification of cable-running zones
- The cable compartment can be mounted on the right or left.
- Can be combined side-by-side or back-to-back.
- Receive the IP55 cover panels.

Mounting			W700			W300		
								
Depth			**D500**	**D600**	**D800**	**D500***	**D600**	**D800**
Enclosures for front connection H2000	Plain-door enclosure	White RAL 9003	**NSYSFPN20750ED**	-	**NSYSFPN20780ED**	**NSYSFN20350ED**	-	**NSYSFN20380ED**
		Gray RAL 7035	**NSYSFPN20750G**	**NSYSFPN20760G**	**NSYSFPN20780G**	**NSYSFN20350**	**NSYSFN20360**	**NSYSFN20380**
	Transparent-door enclosure	White RAL 9003	**NSYSFPN20750TED**	-	**NSYSFPN20780TED**	-	-	-
		Gray RAL 7035	**NSYSFPN20750TG**	**NSYSFPN20760TG**	**NSYSFPN20780TG**	-	-	-
Additional enclosure for rear connection H2000 	Vertical uprights	White RAL 9003	**NSYSFNV20ED**	-	-	**NSYSFNV20ED**	-	-
		Gray RAL 7035	**NSYSFNV20**	-	-	**NSYSFNV20**	-	-
	Bottom and top frame wit roof	White RAL 9003	**NSYSFNC75ED**	-	-	**NSYSFNC35ED**	-	-
		Gray RAL 7035	**NSYSFNC75**	-	-	**NSYSFNC35**	-	-
Adapter uprights for busbar installation in vertical on Linergy LGY  06502_nb			-	-	-	**NSYSFPAED**	**NSYSFPAED** + **NSYSUCR40200**	**NSYSFPAED** + **NSYSUCR40200**
Side panel (Set of 2)**  DD384425_nb		White RAL 9003	**NSY2SPN205ED**	-	**NSY2SPN208ED**	**NSY2SPN205ED**	-	**NSY2SPN208ED**
		Gray RAL 7035	**NSY2SPN205**	**NSY2SPN206**	**NSY2SPN208**	**NSY2SPN205**	**NSY2SPN206**	**NSY2SPN208**
Hinged front plate support frame***  DD381324_nb			**LVS08566**	**LVS08566**	**LVS08566**	-	-	-

* For cables and to install Linergy LGY, LGYE, BS Busbars.
** An earthing braid must be installed between the lateral panels and the frame.
*** Reversible for left or right-hand opening.

Accessories

Width			W700			W300		
Depth			**D500**	**D600**	**D800**	**D500**	**D600**	**D800**
 DD384428_nb	Plinth H100*	Front and rear cross-pieces	**NSYSPF7100**	**NSYSPF7100**	**NSYSPF7100**	**NSYSPF3100**	**NSYSPF3100**	**NSYSPF3100**
		Lateral cross-pieces	**NSYSPS5100**	**NSYSPS6100**	**NSYSPS8100**	**NSYSPS5100**	**NSYSPS6100**	**NSYSPS8100**
	Plinth H200*	Front and rear cross-pieces	**NSYSPF7200**	**NSYSPF7200**	**NSYSPF7200**	**NSYSPF3200**	**NSYSPF3200**	**NSYSPF3200**
		Lateral cross-pieces	**NSYSPS5200**	**NSYSPS6200**	**NSYSPS8200**	**NSYSPS5200**	**NSYSPS6200**	**NSYSPS8200**
 DD384427_nb	Single-entry gland-plates		**NSYEC751**	**NSYEC761**	**NSYEC781**	**NSYEC351**	**NSYEC361**	**NSYEC381**

* The plinth is made up of two catalog numbers: Front and rear cross-pieces + lateral cross-pieces.

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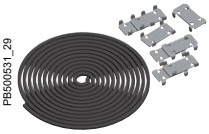
PrismaSeT HD: Functional System

Accessories

Coupling Kit

- Side-by-side combination
- Back-to-back combination: D500+D500, D800+D500
- Back-to-back combination shipped individually and combined during on-site installation

PB500531_29



NSYSFBK19

Characteristics	References
PrismaSet SFN coupling kit for PrismaSeT HD or SFN enclosures equipped with swinging 19" rack, IP55	**NSYSFBK19**

4 Lifting Rings

- Use a set of lifting rings for each framework for one framework (W700 mm) containing devices



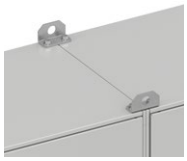
NSYSFEB

Characteristics	References
PanelSeT SFN M12 lifting eyebolt, galvanized cast steel	**NSYSFEB**

4 Lifting Brackets

- When two enclosures with devices have been combined, use a lifting beam.

PB503870



NSYSFELB

Characteristics	References
Set of 4 PanelSeT SFN lifting bracket, zinc-coated steel	**NSYSFELB**

Set of 20 Screws + M6 Nuts



LVS06461

Characteristics	References
20 screws and M6 nuts	**LVS06461**

Earthing Cable, 6 mm²

The cable is equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other.
The earthing cable is used to earth:

- A door or wicket door with devices
- A front-plate support frame equipped with switchgear in an enclosure.



LVS08911

Characteristics	References
Earthing cable 6 mm	**LVS08911**

Earthing Braid

- An earthing braid is installed between the roof and the frame.
- For NSYEL166D8: Length 160 mm, Section 6 mm², Terminal 8.3 mm.
- For NSYEL3525D8: Length 350 mm, Section 25 mm², Terminal 8.3 mm.



NSYEL166D8

Characteristics	References
Earth leads section 6 mm², length 160 mm	**NSYEL166D8**
Earth leads section 25 mm², length 350 mm	**NSYEL3525D8**

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PowerLogic HeatTag:

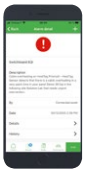
The HeatTag is a wireless sensor for early detection of overheating wire connections or overheating cables. It helps prevent electrical switchboards from being damaged, by analyzing gas and particles in the air and sending alerts before any smoke or insulator browning.

EcoStruxure Panel Server:

Panel Server provides connection to edge control software such as EcoStruxure Power Monitoring Expert or EcoStruxure Building Operation, and to cloud applications such as EcoStruxure Asset Advisor and EcoStruxure Energy Hub.



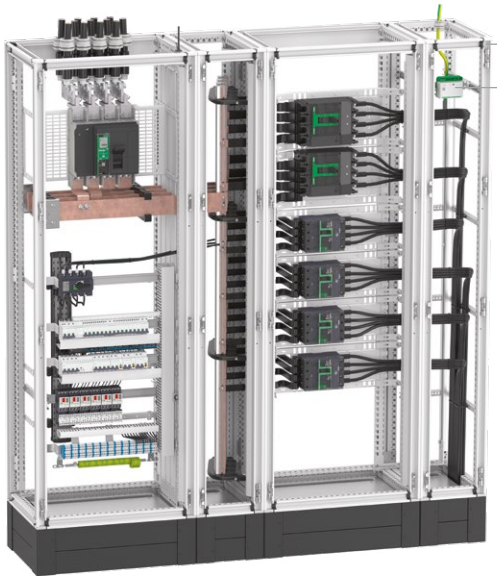
EcoStruxure™ Facility Expert



Alert detail



Air quality index



PrismaSeT HD

Power Distribution System
Up to 4000 A



PowerLogic™ HeatTag

Smart Sensor for alarming you on overheating cable connections

+ **Easy to install:**
directly on a DIN rail in non-forced air ventilated switchboards

+ **Easy to commission:**
with EcoStruxure™ Power commission



EcoStruxure™ Panel Server

Next generation IoT gateway for an intelligent power network

4

Offers		
Cloud-based software	**Description**	**References**
PowerLogic™ HeatTag	Wireless sensor for early detection of overheating cables	**SMT10020**
EcoStruxure™ Panel Server	Universal wireless, concentrator modbus gateway 110-277 VAC/DC	**PAS600**
EcoStruxure™ Panel Server	Advanced datalogger, energy server, 110-277 VAC/DC	**PAS800**
EcoStruxure™ Panel Server	Panel Server - entry wireless, concentrator 110-277 VAC/DC	**PAS400**

PowerLogic™ HeatTag

EcoStruxure™ Panel Server

Scan or click on QR code

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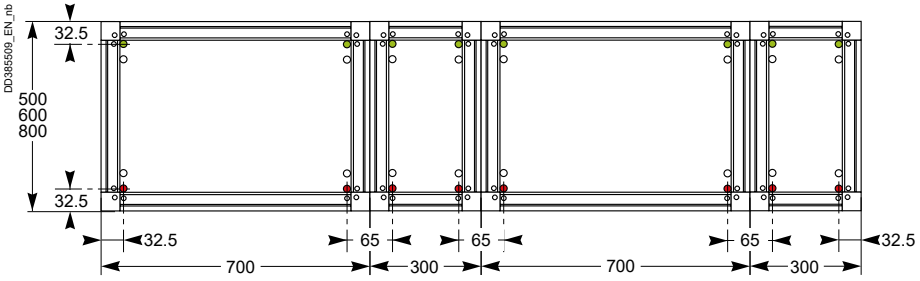
PrismaSeT HD: Functional System

Dimensions

Ground Fastening

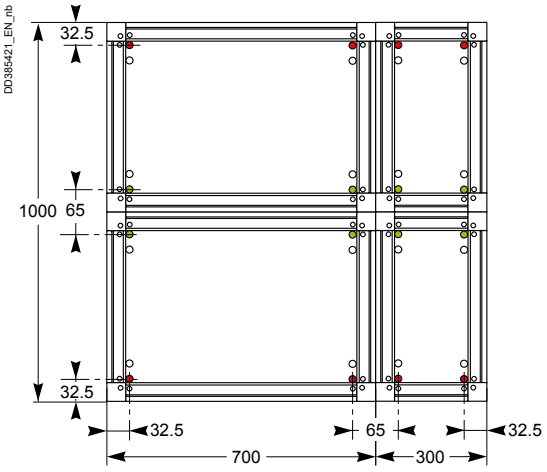
Front Connection

(Example: device enclosure W700 mm + compartment W300 mm)



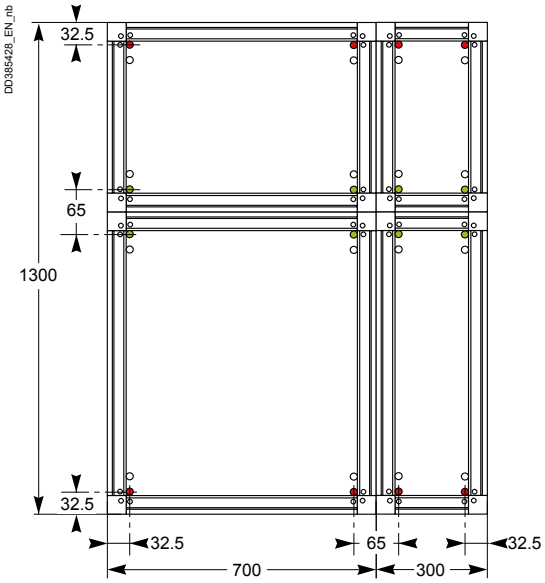
Rear Connection D1000

(Example: device enclosure + compartment D500 + D500 mm)



Rear Connection D1300

(Example: device enclosure + compartment D800 + D500 mm)



- compulsory fixing point
- optional fixing point

8.8-class screws: Screw M10 TH
+ washers (external Ø 25 mm, thickness 3 mm)
+ CS contact washers Ø 10 mm.

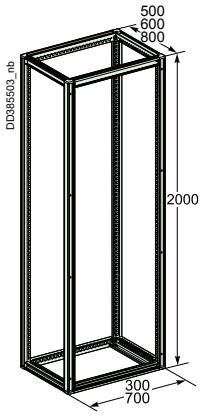
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PrismaSeT HD: Functional System

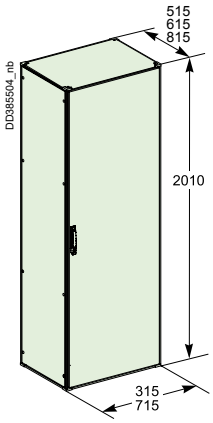
Dimensions

Enclosures

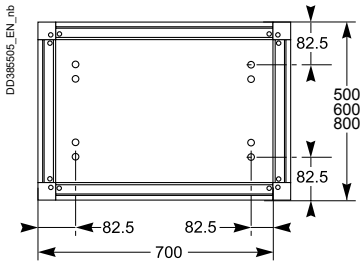
Profile



Cover Panels, Plain or Transparent Door, Lateral Panel

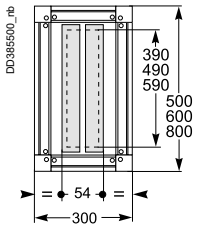


Standard Plinth

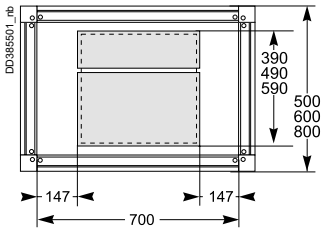


Gland Plates

W300

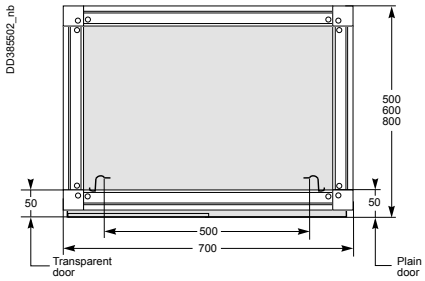


W700



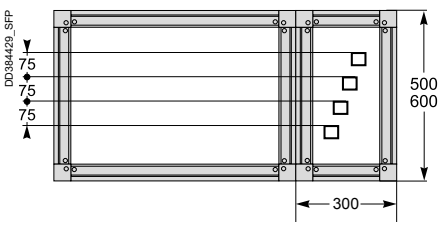
Functional System in PrismaSeT HD Switchboards, Enclosure Mounting

D500, D600, D800

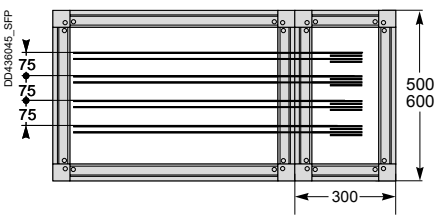


Busbars Mounting, Lateral Vertical Busbars

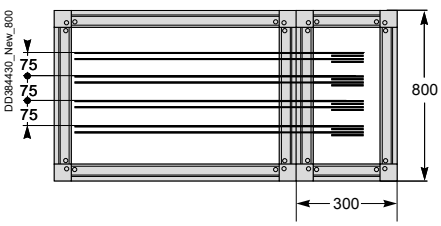
1600 A



2000



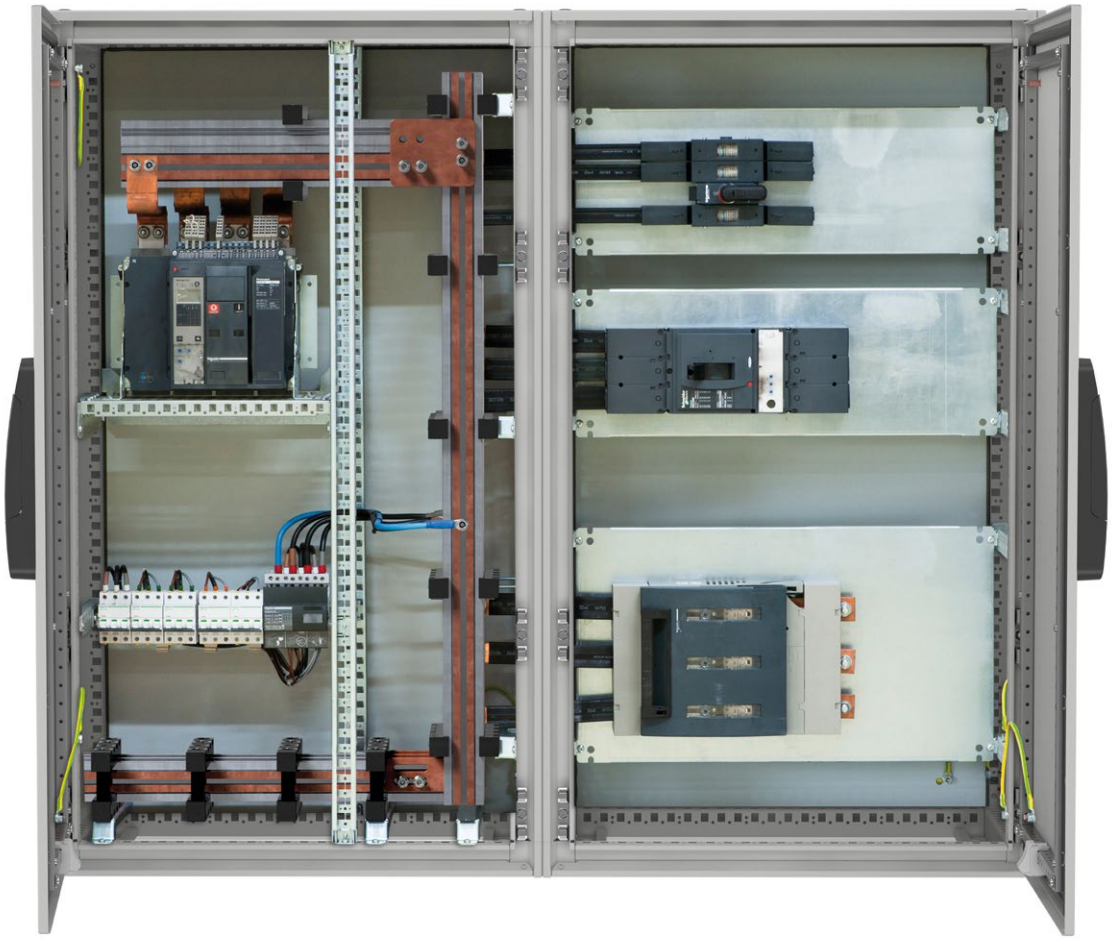
2500 A up to 4000 A



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Panel**SeT** SFN-SM: Steel Floor-Standing Enclosures

Introduction



Explore our extensive range of accessories and solutions designed to elevate your Electrical Distribution panel with our PanelSeT families.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Introduction



Lower Impact Approach

- CO_2 footprint reduction using low-carbon emission steel in PanelSeT SFN enclosures
- Recycled cardboard packaging



Flexibility

- Unlock greater flexibility with top busbar chamber providing more space in your SFN cubicle for the devices
- Comprehensive range of cover plates designed to enhance your ED enclosure experience with the FS modular chassis



Reability

- Compliant with IEC 61439-1&2 standard, technical guide provided with assembly recommendations to comply with the standard
- Integrated with Linergy systems, offering a versatile compatibility for your needs
- Use of high quality components to meet the requirements of heavy industry in terms of service life



Easy Mounting

- Designed for simplified assembly, for fast, efficient installation and seamless integration of modular equipment, and for integration of non-modular equipment using PanelSeT SFN accessories
- Easily combined side-by-side or back-to-back

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Introduction

Modular Distribution System with a Wide Range of Accessories to Assemble High Distribution Capacity Electric Panels





The accessories are installed on a chassis mounted at the front of the enclosure, such as:

- cover plates for enclosures with widths of 600 and 800 mm, solid or cut-out, screw-mounted or hinged. They enable 24 or 36 modules per row, depending on the width of the enclosure
- material support rails, fixed or with adjustable depth
- mounting plate supports for coupling non-modular equipment
- supports for fixing cable-distribution cable ducts
- the sum of the heights of all the covers that complete a chassis must be the height of the cabinet minus 200 mm

Sets of accessories made up of material-supporting frames with chassis and cover plates are offered for the construction of double or busbar modular chassis.
All accessories of the individual chassis system can also be combined in the same way with a double chassis or with a chassis with busbar area.

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Modular Floor-Standing Enclosures

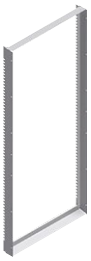
Modular Chassis

Single-Chassis Coupling Set

- Chassis made up of vertical uprights and horizontal crossbars:
- PanelSeT SFN: They are screwed to the front frame of the enclosure.
- PanelSeT SM: They are screwed to the front frame of the enclosure by means of vertical adaptation profiles, see page 495.
- Easy access to the inside for component installation.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Note:
Installation example: See page 202.

Supply:
2 vertical uprights, 2 horizontal crossbars and fixing elements



NSYCSH166

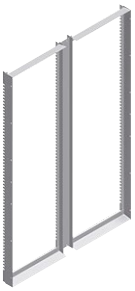
Characteristics	Maximum number of 18 mm modules	Height (mm)	Width (mm)	References
Single-chassis coupling set	216	1600	600	**NSYCSH166**
Single-chassis coupling set	324	1600	800	**NSYCSH168**
Single-chassis coupling set	240	1800	600	**NSYCSH186**
Single-chassis coupling set	360	1800	800	**NSYCSH188**
Single-chassis coupling set	288	2000	600	**NSYCSH206**
Single-chassis coupling set	432	2000	800	**NSYCSH208**

Double-Chassis Coupling Set

- Mounting on enclosures with widths of 1200 and 1600 mm.
- PanelSeT SFN: The double-door enclosure adaptation kit is required for enclosure widths of 1200 and 1600 mm, see page 497.
- PanelSeT SM: They are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 498. For enclosures with a width of 1200 mm the top/bottom adjustment rails are necessary.
- Set made up of two modular chassis with an intermediate central upright.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Note:
Installation example: See page 202.

Supply:
2 single-chassis coupling sets, 1 intermediate central upright and fixing elements



NSYDCSH2012

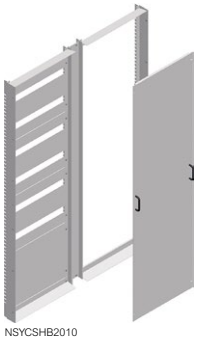
Characteristics	Maximum number of 18 mm modules	Set made up of columns with a width (mm)	Height (mm)	Width (mm)	References
Double-chassis coupling set	576	600 + 600	2000	600	**NSYDCSH2012**

Chassis-Coupling Set with Zone For Busbars

- Set for mounting on enclosures with widths of 1000 and 1200 mm.
- PanelSeT SFN: They are screwed to the front frame enclosure.
- PanelSeT SM: They are screwed to the front frame of the enclosure by means of the vertical and horizontal adaptation profiles, see page 498.
- Assembly made up of a modular chassis with an intermediate central upright and a blanking cover plate for busbars (width 300 mm).
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Note:
Installation example: See page 202.

Supply:
1 single-chassis coupling set, 1 intermediate central upright, 1 busbar blanking cover plate and fixing elements



NSYCSHB2010

Characteristics	Maximum number of 18 mm modules	Set made up of columns with a width (mm)	Height (mm)	Width (mm)	References
Chassis-coupling set with zone for busbars	288	600 + 400	2000	1000	**NSYCSHB2010**
Chassis-coupling set with zone for busbars	432	800 + 400	2000	1200	**NSYCSHB2012**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Modular Floor-Standing Enclosures

Cover Plates

Screwed-On Plain Cover Plate

- Metal cover plates for protecting control devices.
- The cut-outs in non-modular control devices are at user's request.
- Suitable by modules of 150 or 200 mm.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Versions:
- Screwed-on plain cover plate,
- Hinged plain cover plate.
- 120° opening with flat hinge.

Supply:
1 plain cover plate and fixing elements


NSYMPC206

Characteristics	Height (mm) (A)	Width (mm) (B)	References
Screwed-on plain cover plate	150	600	**NSYMPC156**
Screwed-on plain cover plate	150	800	**NSYMPC158**
Screwed-on plain cover plate	200	600	**NSYMPC206**
Screwed-on plain cover plate	200	800	**NSYMPC208**
Screwed-on plain cover plate	300	600	**NSYMPC306**
Screwed-on plain cover plate	300	800	**NSYMPC308**
Screwed-on plain cover plate	400	600	**NSYMPC406**
Screwed-on plain cover plate	400	800	**NSYMPC408**
Screwed-on plain cover plate	450	600	**NSYMPC456**
Screwed-on plain cover plate	450	800	**NSYMPC458**
Screwed-on plain cover plate	600	600	**NSYMPC606**
Screwed-on plain cover plate	600	800	**NSYMPC608**

Hinged Plain Cover Plate

- Metal cover plates for protecting control devices.
- The cut-outs in non-modular control devices are at user's request.
- Suitable by modules of 150 or 200 mm.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

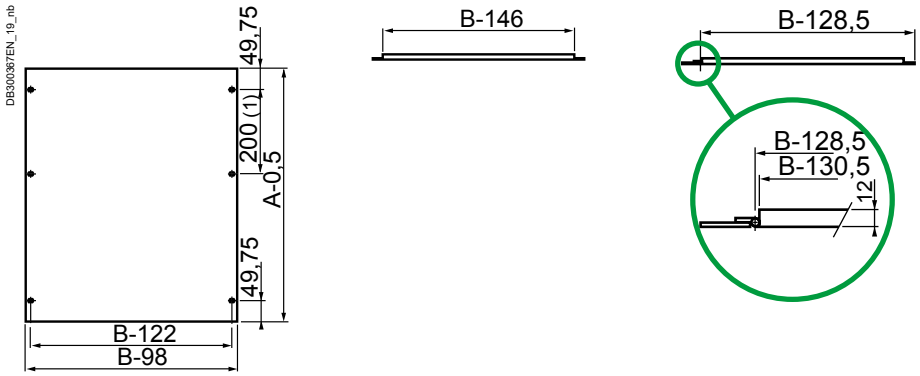
Versions:
- Screwed-on plain cover plate,
- Hinged plain cover plate.
- 120° opening with flat hinge.

Supply:
1 plain cover plate and fixing elements


NSYMPCH206

Characteristics	Height (mm) (A)	Width (mm) (B)	References
Hinged plain cover plate	150	600	**NSYMPCH156**
Hinged plain cover plate	150	800	**NSYMPCH158**
Hinged plain cover plate	200	600	**NSYMPCH206**
Hinged plain cover plate	200	800	**NSYMPCH208**
Hinged plain cover plate	300	600	**NSYMPCH306**
Hinged plain cover plate	300	800	**NSYMPCH308**
Hinged plain cover plate	400	600	**NSYMPCH406**
Hinged plain cover plate	400	800	**NSYMPCH408**
Hinged plain cover plate	450	600	**NSYMPCH456**
Hinged plain cover plate	450	800	**NSYMPCH458**
Hinged plain cover plate	600	600	**NSYMPCH606**
Hinged plain cover plate	600	800	**NSYMPCH608**

Plain Cover Plates



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Modular Floor-Standing Enclosures

Cover Plates

Screwed-On Cut-Out Cover Plate

- Cut-out metal cover plates for modular switchgear (1 module = 18 mm).
- Suitable by modules of 150 or 200 mm.
- Cover plates for 600 mm width enclosures: 24 modules per row,
- Cover plates for 800 mm width enclosures: 36 modules per row.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- To close the unoccupied DIN rail spaces, use the blanking plate **NSYATPUND**

Versions:
- Screwed-on cut-out cover plate,
- Hinged cut-out cover plate. 120° opening with flat hinge.

Supply:
1 cut-out cover plate and fixing elements



NSYMUC206

Characteristics	Maximum number of 18 mm modules	Number of cut-outs	Dimensions (mm)		References
			Height (A)	Width (B)	
Screwed-on cut-out cover plate	24	1	150	600	**NSYMUC156**
Screwed-on cut-out cover plate	36	1	150	800	**NSYMUC158**
Screwed-on cut-out cover plate	24	1	200	600	**NSYMUC206**
Screwed-on cut-out cover plate	36	1	200	800	**NSYMUC208**
Screwed-on cut-out cover plate	48	2	300	600	**NSYMUC306**
Screwed-on cut-out cover plate	72	2	300	800	**NSYMUC308**
Screwed-on cut-out cover plate	48	2	400	600	**NSYMUC406**
Screwed-on cut-out cover plate	72	2	400	800	**NSYMUC408**

Hinged Cut-Out Cover Plate

- Cut-out metal cover plates for modular switchgear (1 module = 18 mm).
- Suitable by modules of 150 or 200 mm.
- Cover plates for 600 mm width enclosures: 24 modules per row,
- Cover plates for 800 mm width enclosures: 36 modules per row.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- To close the unoccupied DIN rail spaces, use the blanking plate **NSYATPUND**

Versions:
- Screwed-on cut-out cover plate,
- Hinged cut-out cover plate. 120° opening with flat hinge.

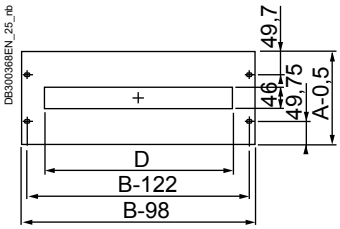
Supply:
1 cut-out cover plate and fixing elements



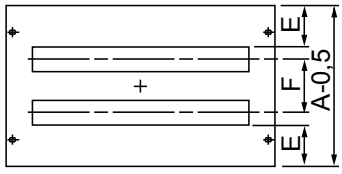
NSYMUCH206

Characteristics	Maximum number of 18 mm modules	Number of cut-outs	Dimensions (mm)					References
			Height (A)	Width (B)	D	E	F	
Hinged cut-out cover plate	24	1	150	600	432	51.75	150	**NSYMUCH156**
Hinged cut-out cover plate	36	1	150	800	642	51.75	150	**NSYMUCH158**
Hinged cut-out cover plate	24	1	200	600	432	76.75	200	**NSYMUCH206**
Hinged cut-out cover plate	36	1	200	800	642	76.75	200	**NSYMUCH208**
Hinged cut-out cover plate	48	2	300	600	432	51.75	150	**NSYMUCH306**
Hinged cut-out cover plate	72	2	300	800	642	51.75	150	**NSYMUCH308**
Hinged cut-out cover plate	48	2	400	600	432	76.75	200	**NSYMUCH406**
Hinged cut-out cover plate	72	2	400	800	642	76.75	200	**NSYMUCH408**

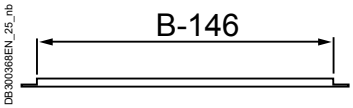
Cut-Out Cover Plates



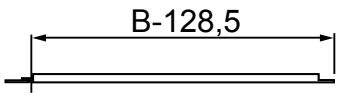
A = 150 and 200 mm



A = 300 and 400 mm



Screwed-On Cover Plate



Hinged Cover Plate

4

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Modular Floor-Standing Enclosures

Cover Plates

Adjustment Cover Plates

- Metal adjustment cover plates designed to complete the front of the modular chassis according to the combinations made by modules of 150 or 200 mm.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Supply:
2 adjustment cover plates and fixing elements


NSYADC16

Characteristics	Height (mm)	Width (mm)	References
Adjustment cover plates	50	600	**NSYADC16**
Adjustment cover plates	50	800	**NSYADC18**

Set of Fixed Rail with Supports

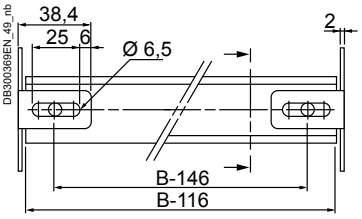
- Set made up of a galvanized symmetric DIN rail, 35 x 15 mm, and fixed mounting supports, for the installation of modular devices or not.
- Material: Zinc-coated steel
- Fixing: Mounting by screws directly on the uprights of the chassis-coupling set

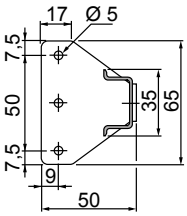
Maximum number of 18 mm modules:
- Enclosure width 600 mm: 24 modules,
- Enclosure width 800 mm: 36 modules.

Supply:
1 DIN rail, 2 fixed supports and fixing elements


NSYMFSC60

Characteristics	Width (mm)	References
Set of fixed rail with supports	**600**	**NSYMFSC60**
Set of fixed rail with supports	**800**	**NSYMFSC80**





Set of Depth-Adjustable Rail with Supports

- Set made up of a galvanized symmetric DIN rail, 35 x 15 mm, and depth adjustable mounting supports, for the installation of modular devices or not.
- Material: Zinc-coated steel (mounting support)

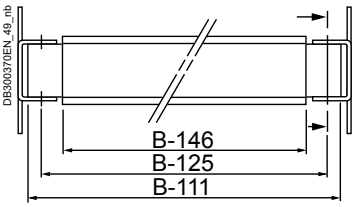
Fixing: Mounting by screws directly on the uprights of the modular chassis-coupling set

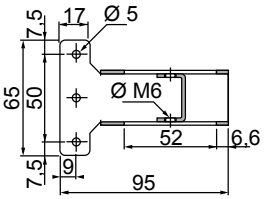
Maximum number of 18 mm modules:
- Enclosure width 600 mm: 24 modules,
- Enclosure width 800 mm: 36 modules.

Supply:
1 DIN rail, 2 adjustable supports and fixing elements


NSYMFSC60D

Characteristics	Width (mm)	References
Set of depth-adjustable rail with supports	600	**NSYMFSC60D**
Set of depth-adjustable rail with supports	800	**NSYMFSC80D**





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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Modular Floor-Standing Enclosures

Cover Plates

Cable Duct Fixing Supports

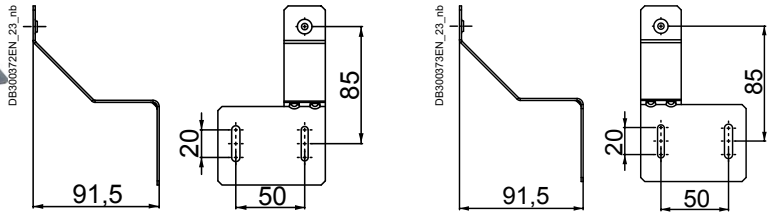
- Supports for fixing cable-distribution gutters in the modular chassis.
- Allows the fixing of gutters in horizontal and vertical position on the same plane to facilitate cable distribution.
- Material: Zinc-coated steel

Fixing: Installation by screws directly on the rail supplied with the fixed or adjustable rail

Supply:
6 supports (3 on the right and 3 on the left) and fixing elements

Characteristics	References
Cable duct fixing supports	**NSYMCDFIX**


NSYMCDFIX



Reinforced Plate Supports

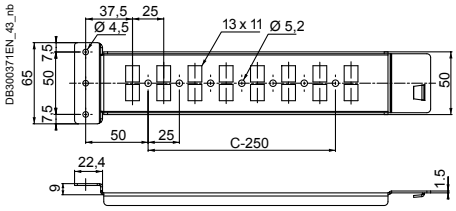
- Supports for fixing the partial mounting plate for small non-modular equipment or material-supporting cross-rails for heavy equipment. See partial mounting plate, page 487.
- Material: Zinc-coated steel

Fixing: Direct fixing by screws to the vertical uprights of the modular chassis-coupling set and at the rear directly to the structure (PanelSeT SFN) and on universal or quick-fixing cross-rails (see page 493) installed vertically in the back of the enclosure (PanelSeT SM)

Supply:
2 supports and fixing elements

Characteristics	Number of cut-outs (Ø 5.2 mm)	Depth (mm)	References
Reinforced plate supports	16	600	**NSYMPS60**
Reinforced plate supports	24	800	**NSYMPS80**


NSYMPS60



Blanking Plate

- Blanking plate for full or partial covering of the circuit-breaker windows; it can easily be cut to the required size.
- Material: PVC (polyvinyl chloride)

Characteristics	Number of modules	Color	Length (mm)	References
Blanking plate	4	RAL 7035 gray	72	**NSYATP72M**
Blanking plate	24	RAL 7035 gray	432	**NSYATP24DTM**
Blanking plate	61	RAL 7035 gray	1100	**NSYATPUND**

NSYATP72M

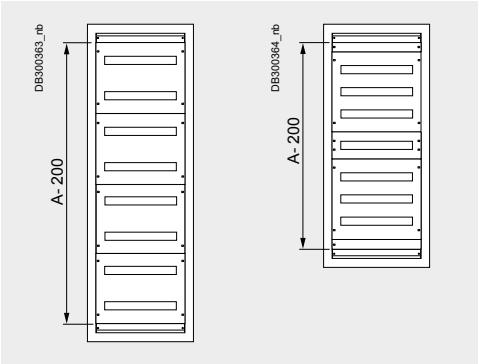
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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Modular Floor-Standing Enclosures

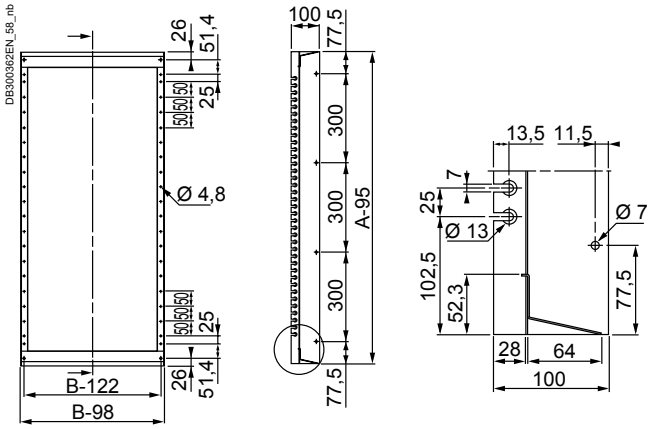
Installation Examples

Combination of Cut-Out Screw-Mounted Cover Plates and Single-Chassis Coupling

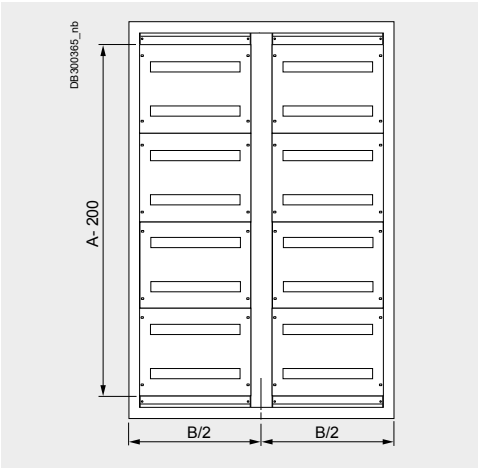


Dimensions (mm)		Number of 18 mm modules	1 single-chassis coupling set	5 screwed-on cut-out cover plates	2 adjustment cover plates
H (A)	W (B)		References	References	References
1800	600	240	1 x **NSYCSH186**	5 x **NSYMUC306**	1 x **NSYADC16**

Single-Chassis Coupling Set



Combination of Cut-Out Screw-Mounted Cover Plates and Double-Chassis Coupling



Dimensions (mm)			Number of 18 mm modules	1 double-chassis coupling set	12 screwed-on cut-out 300 mm cover plates	Double-door enclosure adaptation kit
H (A)	W (B)	D (C)		References	References	References
2000	1200	500	576	1 x **NSYDCSH2012**	12 x **NSYMUC306**	**NSYSMP2D5**

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MasterPacT Support

Overview of the Offer MasterPacT MTZ



Circuit Breakers

MTZ1
From 630 to 1600 A



MTZ2
From 800 to 4000 A

Micrologic™ X control units

2.0X | 5.0X | 6.0X | 7.0X

Only four references



Digital Modules

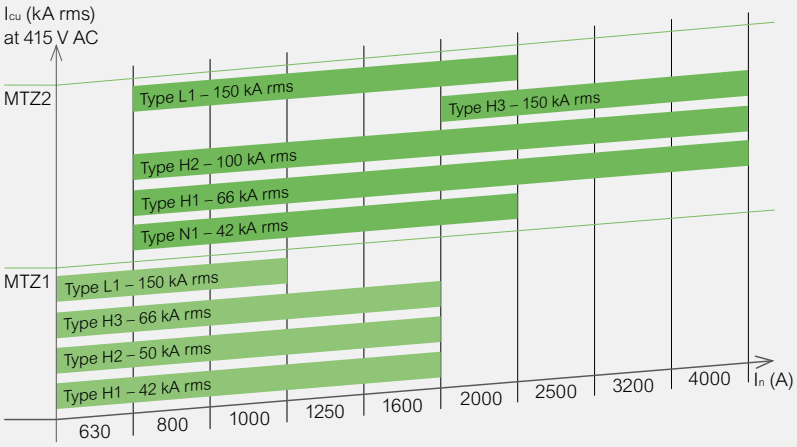


Protection

Measurement

Diagnostics and Maintenance

Five Performance Levels
N1, H1, H2, H3, L1





MasterPacT MTZ1

Find all functions and technical characteristics in:
MasterPacT MTZ catalog
LVPED216026EN



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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

MasterPacT Support

Introduction
Installation of a MasterPacT in a SFN switchboard requires:
- Lateral cross-rails (**NSYSQCR●●**, **NSYSUCR●●**) (See table below)
- 1 specific transversal MasterPacT support (**NSYFXMN●●**) fixed to the lateral cross-rails
- Bar supports to reduce bar movements due to constraints

MasterPacT Supports
Dedicated offer to shelter a MasterPacT circuit breaker and facilitate its positioning in the switchboard
- Less distortion
- Reduced installation time


PB503917

MasterPacT Supports W600

- Cut-outs already defined (availlable in the Schneider CAD library)
- Material: Galvanized steel
- Mounting instructions (screwdriver: T30, Tightening torque: 4.5 Nm/39.82 lb-in)

Supply:
1 support delivered with fixing elements (self tapping screws and cage nuts: M6)


NSYFXMNT60F

Characteristics	MasterPacT combination	References
MasterPacT MTZ1 and NT	Fixed	**NSYFXMNT60F**
MasterPacT MTZ1 and NT	Withdrawable	**NSYFXMNWT60FW**
MasterPacT MTZ2 and NW*	Fixed	**NSYFXMNWT60FW**
MasterPacT MTZ2 and NW*	Withdrawable	**NSYFXMNWT60FW**

* Only compatible for 3P. In case of 4P move to W800.

MasterPacT Supports W800

- Cut-outs already defined (availlable in the Schneider CAD library)
- Material: Galvanized steel
- Mounting instructions (screwdriver: T30, Tightening torque: 4.5 Nm/39.82 lb-in)

Supply:
1 support delivered with fixing elements (self tapping screws and cage nuts: M6)

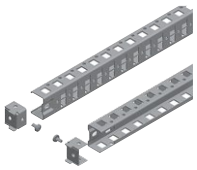

NSYFXMNT80F

Characteristics	MasterPacT combination	References
MasterPacT MTZ1 and NT	Fixed	**NSYFXMNT80F**
MasterPacT MTZ1 and NT	Withdrawable	**NSYFXMNT80W**
MasterPacT MTZ2 and NW	Fixed	**NSYFXMNW80F**
MasterPacT MTZ2 and NW	Withdrawable	**NSYFXMNW80W**

Associated Cross-Rails

- Material: Zinc-coated steel

Supply:
2 cross-rails and fixing elements (see cross-rail section page 493 for more information)

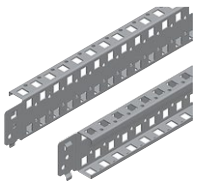

NSYSUCR65●●

Characteristics	References
in MasterPacT combination: MTZ1 and NT	**NSYSUCR65●●**
in MasterPacT combination: MTZ2 and NW	**NSYSUCR90●●**

Associated Cross-Rails

- Material: Zinc-coated steel

Supply:
2 cross-rails and fixing elements (see cross-rail section page 493 for more information)


NSYSQCR65●●

Characteristics	References
in MasterPacT combination: MTZ1 and NT	**NSYSQCR65●●**
in MasterPacT combination: MTZ2 and NW	**NSYSQCR90●●**

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

MasterPacT Support - Bar Supports

Supports for MasterPacT MTZ1 and NT

- Fixing by screw with hexagonal head.
- Material: Metal support: Zinc-coated steel, Isolating supports: thermosetting painting

Supply:
2 insulated bar supports,
1 metal horizontal support and fixing element


NSYBHNT600

Characteristics	Width (mm)	References
Fixed support	600	**NSYBHNT600**
Fixed support	800	**NSYBHNT800**

Supports for MasterPacT MTZ1 and NT

- Fixing by screw with hexagonal head.
- Material: Isolating supports: Thermosetting painting

Supply:
2 insulated bar supports and fixing elements


NSYBSA70

Characteristics	References
Free support	**NSYBSA70**

Supports for MasterPacT MTZ2 and NW

- Fixing by screw with hexagonal head.
- Material: Metal support: Zinc-coated steel, Isolating supports: thermosetting painting

Supply:
2 insulated bar supports,
1 metal horizontal support and fixing element


NSYBHNW600

Characteristics	Width (mm)	References
Fixed support	600	**NSYBHNW600**
Fixed support	800	**NSYBHNW800**

Supports for MasterPacT MTZ2 and NW

- Fixing by screw with hexagonal head.
- Material: Isolating supports: Thermosetting painting

Supply:
2 insulated bar supports and fixing elements


LVS04678

Characteristics	References
Free support	**LVS04678**

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Top Busbar Chamber

Top Busbar Chamber

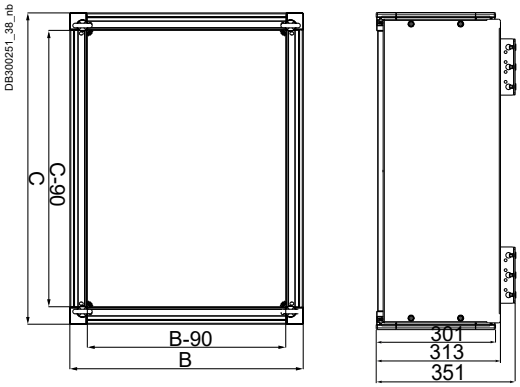
- Chamber which shelters and supports the sets of horizontal bars.
- Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment.
- It is only installed at the top of the enclosure.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Ingress protection rating: IP55 according to IEC 60529

Supply:
One structure of the busbar chamber as a kit
Two front panels
Reinforced coupling kit
One sealing gasket



NSYTBCN366

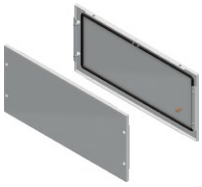
Characteristics	Height (mm)	Width (mm) (B)	Depth (mm) (C)	References
Top busbar chamber	300	400	500	**NSYTBCN345**
Top busbar chamber	300	400	600	**NSYTBCN346**
Top busbar chamber	300	400	800	**NSYTBCN348**
Top busbar chamber	300	600	500	**NSYTBCN365**
Top busbar chamber	300	600	600	**NSYTBCN366**
Top busbar chamber	300	600	800	**NSYTBCN368**
Top busbar chamber	300	800	500	**NSYTBCN385**
Top busbar chamber	300	800	600	**NSYTBCN386**
Top busbar chamber	300	800	800	**NSYTBCN388**
Top busbar chamber	300	1000	500	**NSYTBCN3105**
Top busbar chamber	300	1000	600	**NSYTBCN3106**
Top busbar chamber	300	1000	800	**NSYTBCN3108**
Top busbar chamber	300	1200	500	**NSYTBCN3125**
Top busbar chamber	300	1200	600	**NSYTBCN3126**
Top busbar chamber	300	1200	800	**NSYTBCN3128**



Side Panels for the Top Busbar Chamber

- Set of two side panels for coupling with the busbar chamber.
- Captive screws.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Supply:
Two side panels and fixing elements



NSYSPBCN35

Characteristics	Depth (mm)	References
Side panels for the top busbar chamber	500	**NSYSPBCN35**
Side panels for the top busbar chamber	600	**NSYSPBCN36**
Side panels for the top busbar chamber	800	**NSYSPBCN38**

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Busbar Cubicle

Busbar Cubicle

- Shelters and supports the sets of vertical bars.
- Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment.
- It can be installed on either of the two sides of the enclosure.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Ingress protection rating: IP55 according to IEC 60529
- UL-certified (cULus): Rating according UL50E: Type 1,12 AND 3R

Supply:
One structure of the busbar cubicle
One roof
One rear panel
One door with handle (5 mm DB lock)



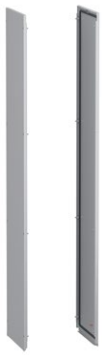
NSYSFN18440

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Busbar cubicle	1800	400	400	**NSYSFN18440**
Busbar cubicle	1800	400	500	**NSYSFN18450**
Busbar cubicle	1800	400	600	**NSYSFN18460**
Busbar cubicle	2000	300	500	**NSYSFN20350**
Busbar cubicle	2000	300	600	**NSYSFN20360**
Busbar cubicle	2000	300	800	**NSYSFN20380**
Busbar cubicle	2000	400	400	**NSYSFN20440**
Busbar cubicle	2000	400	500	**NSYSFN20450**
Busbar cubicle	2000	400	600	**NSYSFN20460**
Busbar cubicle	2000	400	800	**NSYSFN20480**
Busbar cubicle	2200	400	600	**NSYSFN22460**

Side Panels for the Busbar Cubicle

- Set of 2 side panels fixed to the outside.
- Captive screws.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Supply:
Two side panels with external fixing and fixing elements



NSY2SPN184

Characteristics	Height (mm)	Depth (mm)	References
Side panels	1800	400	**NSY2SPN184**
Side panels	1800	500	**NSY2SPN185**
Side panels	1800	600	**NSY2SPN186**
Side panels	2000	400	**NSY2SPN204**
Side panels	2000	500	**NSY2SPN205**
Side panels	2000	600	**NSY2SPN206**
Side panels	2000	800	**NSY2SPN208**
Side panels	2200	600	**NSY2SPN226**

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Horizontal Bar Support

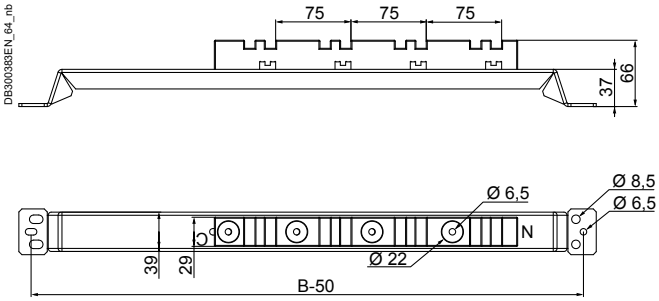
Vertical Bar Support

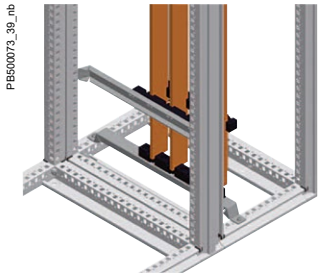
- Support prepared for fixing bars in vertical position, mounted directly on the structure of the enclosure. Adjustable height with a pitch of 25 mm.
- For a nominal rating In ≥ 3000 A and ≤ 4000 A, you add one spacer ref. **LVS04646**.

Supply:
2 insulated bar supports,
1 metal vertical support and fixing elements


NSYBVS400

Characteristics	Width / Depth (B) (mm)	References
Vertical bar support	400	**NSYBVS400**
Vertical bar support	500	**NSYBVS500**
Vertical bar support	600	**NSYBVS600**
Vertical bar support	800	**NSYBVS800**
Vertical bar support for 115 mm pitch	800	**NSYBVS800L**




PB500073_39_nb

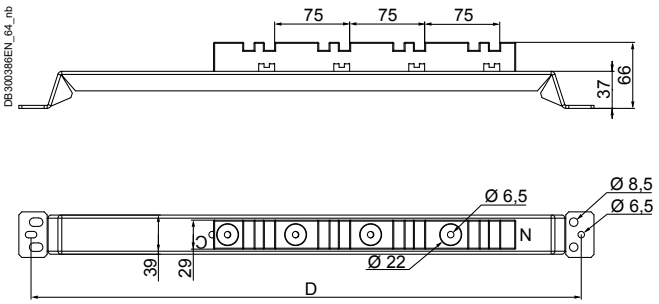
Setting Support

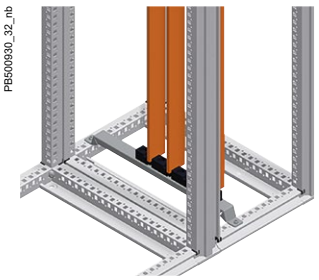
- Bottom support for bars in vertical position.
- It is fixed to the bottom frame of the enclosure.
- It is required for supporting the bars.
- It is not considered a bar support when calculating the number of supports

Supply:
1 insulated bar support,
1 metal vertical support and fixing elements


NSYAS500

Characteristics	Width / Depth (B) (mm)	References
Setting support	500	**NSYAS500**
Setting support	600	**NSYAS600**
Setting support	800	**NSYAS800**
Setting support for 115 mm pitch	800	**NSYAS800L**




PB500930_32_nb

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Horizontal Bar Support

Horizontal Bar Support

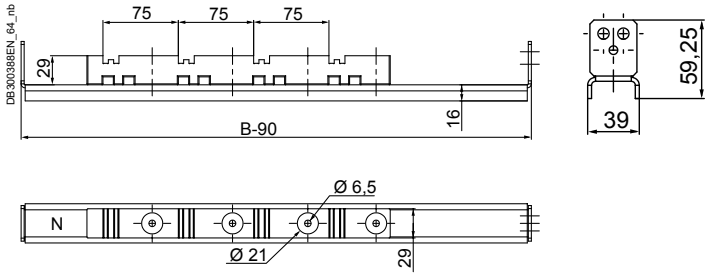
- Support prepared for fixing bars in horizontal position.
- Direct mounting to the structure of the enclosure, on the vertical uprights, at any height, adjustable with a pitch of 25 mm.
- For a nominal rating I_n ≥ 3000 A and ≤ 4000 A, you add one spacer ref. **LVS04646**.

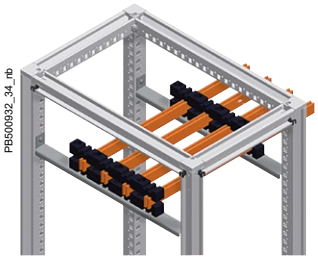
Supply:
2 insulated bar supports,
1 metal horizontal support and fixing elements



NSYBHS500

Characteristics	Width / Depth (B) (mm)	References
Horizontal bar support	500	**NSYBHS500**
Horizontal bar support	600	**NSYBHS600**
Horizontal bar support	800	**NSYBHS800**
Horizontal bar support for 115 mm pitch		**NSYBHS800L**





PB500932_34_nb

Bar Support Arm

- Used to maintain the distance between bars, whether vertical or horizontal.
- No need to attach to the enclosure.
- It is used on bars in both vertical and horizontal position.
- For a nominal rating I_n ≥ 3000 A and ≤ 4000 A, you add one spacer ref. **LVS04646**.

Supply:
2 insulated bar supports and fixing elements



NSYBSA

Characteristics	Width / Depth (B) (mm)	References
Bar support arm	500	**NSYBSA**

4

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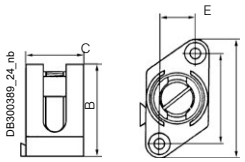
PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Vertical Bar Support

Sigma Safety Terminals

- Safety terminals made from self-extinguishing Polyamide-6, with matt black base, MS-58 brass terminal (DIN 17660), tempered, zinc-plated and dichromated steel ring, and cover made from orange-colored self-extinguishing polypropylene.
- Anti-shearing: The connection is made by means of a tightening mechanism which distributes the pressure across the entire contact surface, limiting friction and occasional stress that can damage the conductors.
- The ring that surrounds the brass body helps prevent the pressure exerted by the actual conductors from opening the terminal and loosening the connection.
- All SIGMA "S" terminals are supplied with a terminal-covering cap, that helps prevent accidental contact with live parts. All the gauges can be coupled together, forming strips of any length. Operating voltage: 500 V.



Note:
Each terminal accepts up to 2 conductors with the specified section.
20 units
(except for ref. **NSYS95100**: 10 units)


NSYS16

Characteristics	Section (mm²)	A	B	C	D	E	References
Sigma safety terminals	1 x 4	30	20	13	21	4	**NSYS04**
Sigma safety terminals	1 x 6	33	25	16	24	7	**NSYS06**
Sigma safety terminals	1 x 10	38	28	16	28	6	**NSYS10**
Sigma safety terminals	1 x 16	42	32	19	32	9	**NSYS16**
Sigma safety terminals	1 x 35	46	38	23	34	11	**NSYS2535**
Sigma safety terminals	1 x 50	52	45	27	40	15	**NSYS50**
Sigma safety terminals	1 x 70	55	50	30	40	15	**NSYS70**
Sigma safety terminals	1 x 100	58	54	33	40	20	**NSYS95100**

Earthing Strips

- For the junction of neutral and earth cables.
- Models **NSYRBL●●** (Fig. 3) for installation in boxes with insulated rear or by means of insulators, not supplied.

Supply:
10 earthing strips

Fig. 3

NSYRBL21656M

Characteristics	Number of terminals x section	Fig	References
Earthing strips	2 x 16 mm² + 5 x 6 mm²	3	**NSYRBL21656M**
Earthing strips	2 x 16 mm² + 8 x 6 mm²	3	**NSYRBL21686M**
Earthing strips	2 x 16 mm² + 14 x 6 mm²	3	**NSYRBL216146M**
Earthing strips	2 x 16 mm² + 29 x 6 mm²	3	**NSYRBL216296M**

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

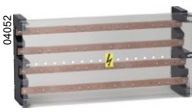
Accessories for Low Voltage Switchboards

Distribution Blocks

Quick-Connection Distribution Blocks

	Linergy DX				
			 	 	
	63 A	63 A	125 A	160 A	160 A
Characteristics	**LVS04040**	**LVS04041**	**LVS04045 + LVS04047**	**LVS04046**	**LVS04031**
	• Incoming through the top. • Clip-on to rail.	• Incoming through the bottom. • Clip-on to rail.	• Set of 4 • 35 mm² flexible connections, length 210 mm to be ordered separately (catalogue number 04047). • Clip-on to rail.	• Set of 4 prefabricated flexible connections supplied, for connection with an INS100/160 or NSA160 switch, installed on the right or left. • Clip-on to rail	**Clip-on to rail.**
Number of poles	4P		4P		1P
Total connection capacity (dia. for flexible cables)					
4 mm²	-		7		-
6 mm²	12 per phase + 12 neutral		3		6
10 mm²	-		2		-
16 mm²	-		1 tunnel terminal		6
25 mm²	4 tunnel terminals per phase + 1 neutral		-		-
35 mm²	-		1 tunnel terminal		-
70 mm²	-		-		1 tunnel terminal
Size in 9 mm- modules	8		12		4.5
Size in 18 mm- modules	4		6		2.5

Screw Distribution Blocks

	Linergy DS							Linergy BS			
											
	125 A	160 A	250 A	100 A	125 A		160 A	160 A	250 A	400 A	630 A
Characteristics	**LGY112510**	**LGY116013**	**LGY125014**	**LGY410028**	**LGY412548**	**LGY412560**	**LGY416048**	**LVS04052**	**LVS04053**	**LVS04054**	**LVS04055**
	• Clip-on to rail.			• Clip-on to rail.				• To be screwed on back. • 13 M6 tapped holes + 4 plain holes of diameter 12.2 mm.			
Number of poles	1P			4P				4P			
Total connection capacity	10	13	14	4 x 7	4 x 12	4 x 15	4 x 12	4 + 13 (dia. for flexible cables: 50 mm²)			
Size in 9 mm- modules	3	4	5	8	14	20	18	-	-	-	-
Neutral terminal strip (optional)	-	-	-	**LGYN1007**	**LGYN12512**	**LGYN12515**	**LGYN12512**	-	-	-	-

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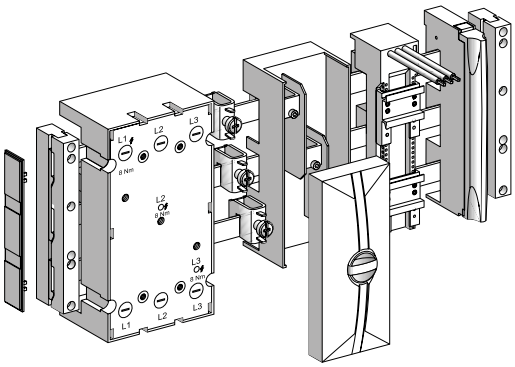
PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Power Busbars

Linergy BZ - Quick busbar systems

DB400244-LIN



IEC 61439-1 & UL845
This mounting plate system for busbars simplifies the installation of motor feeder components used in your electrical installations. Power distribution is performed by a busbar.
The mounting plates are fitted directly on this busbar, by snap-on mounting, thus implementing electrical distribution.

4

IEC busbar supports					IEC accessories	
Number of poles	3		4		-	
	LA9ZX01495	LA9ZX01573	LA9ZX01485	LA9ZX01131	LA9ZX01244	LA9ZX01245
	For 12, 15, 20, 25, 30 x 5/10 mm2 busbars	**End covers for 3-pole busbar support**	**For 12, 15, 20, 25, 30 x 5/10 mm2 busbars**	**End covers for 4-pole busbar support (5 left, 5 right)**	**1m busbar cover 5mm**	**1m busbar cover 10mm**
Set of	10	10	10	10	10	10
References	**LA9ZX01495**	**LA9ZX01573**	**LA9ZX01485**	**LA9ZX01131**	**LA9ZX01244**	**LA9ZX01245**

UL busbar supports			UL accessories		
Number of poles	3		3	-	
	LA9ZX01508	LA9ZX01573	LA9ZX01515	LA9ZX01244	LA9ZX01245
	For 12, 20, 30 x 5/10 mm busbars	**End covers for busbar support**	**Base plate 240 x 700**	**1m busbar cover 5mm**	**1m busbar cover 10mm**
Set of	10	10	2	10	10
References	**LA9ZX01508**	**LA9ZX01573**	**LA9ZX01515**	**LA9ZX01244**	**LA9ZX01245**

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Power Busbars

Linergy BZ - Quick busbar systems

For TeSyS Power - Motor Circuit Breaker & TeSyS Control Contactors

	PB112418  LA9ZA32443, LA9ZA32621	PB112417  LA9ZA32434, LA9ZA32442	PB112420  LA9ZA32622, LA9ZA32623	
	Mounting plate, 1-way		**Mounting plate, 2-way**	
Operating current AC-3 440 V	25 A	32 A	25 A	32 A
For TeSys Power – Deca Motor Circuit Breakers	GV2 ME GV2 P GV2 LE	GV2 ME GV2 P GV2 LE	GV2 ME GV2 P GV2 LE	GV2 ME GV2 P GV2 LE
For TeSys Control – Micra Contactors For TeSys Control – Deca Contactors	LC1 D LC1 K LP4 K06-K12	LC1 D	LC1 D LC1 K LP4 K06-K12	LC1 D
Dimensions (L x H x W) (mm)	45 x 200 x 63	45 x 200 x 63 54 x 200 x 63 63 x 200 x 63	90 x 200 x 63	90 x 200 x 63
Set of	4	4 4 4	2	2
References	**LA9ZA32621**	**LA9ZA32434** **LA9ZA32442** **LA9ZA32443**	**LA9ZA32622**	**LA9ZA32623**

For TeSys Control - Ultra Motor Starter

	PB112416  LA9ZA32427	PB112419  LA9ZA32428
	Mounting plate, 1-way	**Mounting plate, 2-way**
Operating current AC-3 440 V	32 A	32 A
For TeSys Control - Ultra Motor Starter	LUB12, LUB32	LUB12, LUB32
Dimensions (L x H x W) (mm)	45 x 200 x 63	45 x 260 x 63
Set of	4	4
References	**LA9ZA32427**	**LA9ZA32428**

4

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Power Busbars

Linergy BZ - Quick busbar systems

For TeSys Power - Deca Motor Circuit Breaker Frame 3

PB112422



PB112423



PB112426



	LA9ZA32624	LA9ZA32625	LA9ZA32626
	Mounting plate, 1-way		**Mounting plate, 2-way**
Operating current AC-3 440 V	63 A		25 A
For TeSys Power - Deca Circuit Breaker Frame 3	GV3 P	GV3 P	GV3 P
For TeSys Control - Deca contactors	-	LC1 D40A…65 A	LC1 D40A…65 A
Dimensions (L x H x W) (mm)	54 x 200 x 63	54 x 260 x 63	117 x 260 x 63
Set of	4	4	2
References	**LA9ZA32624**	**LA9ZA32625**	**LA9ZA32626**

For ComPacT NSX Circuit Breakers

PB103841



PB112430



PB112429



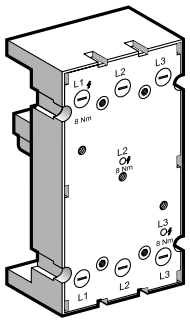
PB112432



	Mounting plate for 3P ComPacT NSX circuit breakers	**Mounting plate for 4P ComPacT NSX circuit breakers**	**Mounting plate for 3P ComPacT NSX circuit breakers**	**Mounting plate for 4P ComPacT NSX circuit breakers**
Rated operational current at 40° (Ie)	100-250 A		400-630 A	
Dimensions (L x H x W) (mm)	104 x 190 x 63	139 x 251 x 63	139 x 270 x 63	139 x 270 x 63
Set of	1	1	1	1
References	**LV429372**	**LV429373**	**LV432623**	**LV432624**

For 3P PowerPact circuit breakers

DB403877



LA9ZA32600

	Mounting plate for H frame circuit breakers	**Mounting plate for J frame circuit breakers**	**Mounting plate for L frame circuit breakers**
Rated operational current at 40° (Ie)	60-100-150 A	100-250 A	250-400-600 A
Dimensions (L x H x W) (mm)	104 x 190 x 63	104 x 190 x 63	139 x 270 x 63
Set of	1	1	1
References	**LA9ZA32600**	**LV429372**	**LV432623**

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Power Busbars

Linergy BZ - Quick busbar systems

Terminals			
Number of poles	1P		
	PB112437  LA9ZX01285	PB112438  LA9ZX01287	PB112439  LA9ZX01413
	For flat bars, 5 mm		**3P cover, width 84 mm**
Rated operational current at 40° (Ie)	270 A	400 A	
Supply at incoming terminals	4 - 35 mm²	16 - 70 mm²	
Set of	50	25	10
References	**LA9ZX01285**	**LA9ZX01287**	**LA9ZX01413**

Terminals on mounting plate	
Number of poles	3P
	PB112434  LA9ZX01243
	On mounting plate + cover, for 12 x 5 to 30 x 10 busbars
Rated operational current at 40° (Ie)	440 A
Supply at incoming terminals	35 - 120 mm²
Set of	1
References	**LA9ZX01243**

Connection module	
Number of poles	3P
	PB112444  LA9ZX01563
	Spring terminal connection + cover, for busbars of 12 x 5 to 30 x 10
Rated operational current at 40° (Ie)	63 A
Supply at incoming terminals	1.5 - 16 mm²
Set of	8
References	**LA9ZX01563**

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

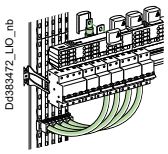
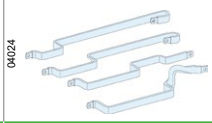
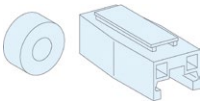
Accessories for Low Voltage Switchboards

Device Feeders

Quick Device Feeders

	Linergy FM: For cable links						
							
	63 A	80 A	160 A	200 A			
Characteristics	**LVS04008**	**LVS04004**	**LVS04018**	**LVS04012**	**LVS04013**	**LVS04014**	**LVS04026**
	4P Cable to be used without ferrules.	4P -	4P Cable to be used without ferrules.	2P.	3P	4P	4P
Length in 9-mm modules	24	48	24	48			72
Length in 18-mm modules	12	24	12	24			36
Supply at incoming terminals	Enclosed terminals for cables up to 25 mm²	Enclosed terminals for flexible cables 6 to 25 mm² or rigid cables 10 to 35 mm²	Direct onto the row by cable 70 mm² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection				
Downstream connection capacity							
Max. 4 mm², Phase	6	-	-	-	-	-	-
Max. 4 mm², Neutral	4	-	-	-	-	-	-
Max. 6 mm², Phase	6	18	-	-	-	-	-
Max. 6 mm², Neutral	4	18	-	-	-	-	-
Max. 10 mm², Phase	-	-	18	12	36	36	54
Max. 10 mm², Neutral	-	-	9	12	-	18	27
Accessories included							
Pre-stripped copper connections	10 of 4 mm² + 6 of 6 mm² (L=100 mm)	12 blue + 12 black	12 of 10 mm² (L=100 mm)	24 of 10 mm²			36 of 10 mm²
Protective cover	-	-	For pads (IPxxB)	-	-	-	-
Screws and nuts	-	-	For pads	-	-	-	-

Linergy FM with Upstream Device

	Connection of Linergy FM with upstream device				
					
Characteristics	**LVS04021 + LVS04150 insulated covers**	**LVS04024**	**LVS04029**	**LVS04030**	**LVS04743**
Upstream device	Linergy BW busbar	Multi-stage Linergy BS busbar	Rear Linergy BS busbar	Device 160 A	Busbar
Connection hardware	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Linergy FM 1/2 row	200 A connection (20 x 3 mm) for Linergy FM

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

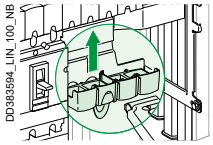
Device Feeders

Feeders for ComPacT NSX et INS

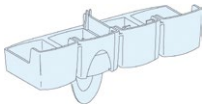
	Linergy FC	
	 ComPacT NSX100/250 and INS/INV250 - All controls, fixed and withdrawable	
Characteristics	**LVS04407**	**LVS04408**
	• Linergy FC without prefabricated connections: • The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (**LVS04922**). In this case, use the form 2 restoration kit (**LVS04924**). • For the connection, use insulated flexible bars, 32 x 8 mm (**LVS04753**). Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.	
Number of poles	3P	4 P
Connection to	Linergy BS, Linergy LGY or Linergy LGYE busbars	
Number of devices	4	3
Composition	Self-adhesive labels to mark the phases for connections to the busbars.	

Accessories

Tooth Caps



- The caps block off the reserve terminals on a Linergy FC distribution block.
- Made of an insulated material, they simply clip on from the front.



LVS04809

Characteristics	References
Tooth caps	**LVS04809**

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Vertical Bar Support

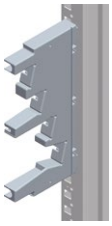
630-A Multi-Stage Bar Support

- Support for fixing bars with cross-sections: 15 x 5, 20 x 5, 32 x 5, 32 x 8.
- The orientation of the copper bars makes tightening easier and allows better circulation of the cables.
- It can be 3-pole or 4-pole, with gauges from 160 to 630 A.

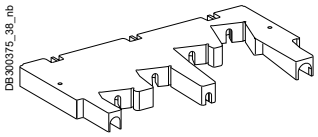
Electrical characteristics:

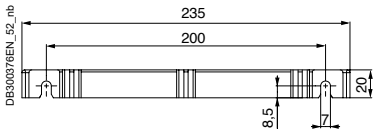
- Rated peak withstand current Ipk (kA):
- 30 kA for 160 A busbar,
- 40 kA for 250 A busbar,
- 55 kA for 400 A and 630 A busbar.
- Rated insulation voltage Ui = 750 V.
- Material: Insulated plastic
- Fixing: Mounting on mounting plates (see page 486) or cross-rails (see page 493) M6 x 25 self-tapping screws are required for fixing on the cross-rails, not included

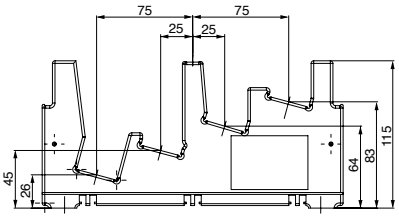
Supply:
1 multi-stage bar support and fixing elements


LVS04192

Characteristics	References
630-A multi-stage bar support	**LVS04192**







The following table shows:

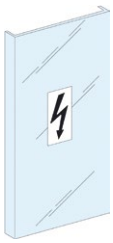
- The cross-section of the bars that will be used according to the current-carrying capacity in the busbar.
- The distance between the bar supports that will be installed according to the rated short-time withstand current: Icw.

		Center-to-center distance of the supports (mm) Icw (kA eff/1 s)				
Rating (A)	Bar cross-section (mm)	10	13	15	20	25
160	15 x 5	450	-	-	-	-
250	20 x 5	450	450	-	-	-
400	32 x 5	450	450	450	300	300 I_{cw} (kA eff/0.6 s)
630	32 x 8	450	450	450	300	300

Display for 630-A Multi-Stage Busbar

- Helps protect against direct contact from the front in the connections of the busbar.
- Length: 1500 mm.
- Fixing: Direct mounting on the actual support

Supply:
1 display for multi-stage busbar and fixing elements


LVS04197

Characteristics	References
Display for 630-A multi-stage busbar	**LVS04197**

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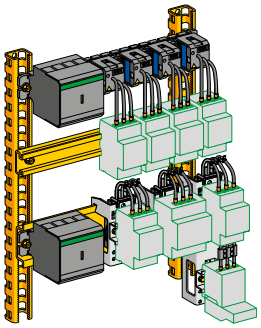
PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Hot Plug Busbar System

Linergy HK - Hot plug pre-assembled busbar systems

DB300785-LIN

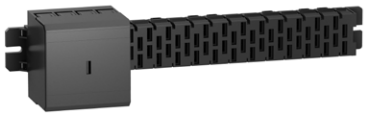


IEC 61439

The assembly of automated control and distribution panels requires the use of products that helps protect people, while being simple and quick to mount and wire up. These pre-assembled busbar systems meet all these criteria.

Busbar systems

PB112406



Number of conductors		4					
Number of tap-offs at 18 mm intervals		12	18	24	30	48	54
Length	(mm)	344	452	560	668	992	1100
Suitable for mounting in enclosure width	(mm)	600	800	800	800	1200	1200
References		**AK5JB143**	**AK5JB144**	**AK5JB145**	**AK5JB146**	**AK5JB149**	**AK5JB1410**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Hot Plug Busbar System

Linergy HK - Hot plug pre-assembled busbar systems

	Omega rail, width 75 mm	Removable power sockets				
	PB500864 	PB112411 			PB112411_1 	
	AM1DL201	AK5PC12			AK5PC12PH	
Number of poles		Single-phase + Neutral			2-phase	
Material and surface treatment	2 mm sheet steel					
Number of points used on the busbar system		1			1	
Rated operational current at 40° (Ie)		16 A	32 A	32A	16 A	32 A
Length (mm)	2000 (1)	200	1000	2000	200	1000
Depth (mm)	15					
Set of	6	6 (2)	6 (2)	6 (2)	6 (3)	6 (3)
References	**AM1DL201**	**AK5PC12**	**AK5PC32L**	**AK5PC32L2**	**AK5PC12PH**	**AK5PC32LPH**

	Component mounting plates incorporating tap-off			
	Single plate (height 105 mm)			
	GALOYER_GM1_ZG10_22_03_000078 			GALOYER_GM1_ZG10_22_03_000078_1 
	AK5PA211N1			AK5PA211PH12
Number of poles	Single-phase + Neutral			2-phase
Number of 18 mm points used on the busbar system	3			3
Rated operational current at 40° (Ie)	25 A	25 A	25 A	25 A
Phase	Ph1+N	Ph2+N	Ph3+N	Ph1+Ph2
Number of 6 rails for component support	1	1	1	1
References	**AK5PA211N1**	**AK5PA211N2**	**AK5PA211N3**	**AK5PA211PH12**

	Component mounting plates incorporating tap-off					
	Double plate (height 190 mm)					
	PB112408 					
	AK5PA232					
Number of poles	Single-phase + Neutral			2-phase		
Number of 18 mm points used on the busbar system	3			3		
Rated operational current at 40° (Ie)	25 A	25 A	25 A	25 A	25 A	25 A
Phase	Ph1+N	Ph2+N	Ph3+N	Ph1+Ph2	Ph1+Ph3	Ph2+Ph3
Number of 6 rails for component support	2	2	2	2	2	2
References	**AK5PA212N1**	**AK5PA212N2**	**AK5PA212N3**	**-**	**-**	**-**

(1) Cut and drill to suit use. (2) Total of 6 sockets supplied: 2 sockets (N + L1), 2 sockets (N + L2). 2 sockets (N + L3).
(3) Total of 6 sockets supplied: 2 sockets (L1 + L2), 2 sockets (L1 + L3). 2 sockets (L2 + L3).

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

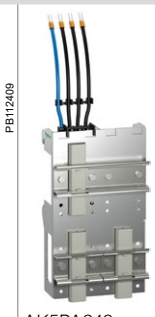
Linergy HK - Hot plug pre-assembled busbar systems



	AK5PC13			AK5PC14					
	3-phase			3-phase + Neutral				3-phase + Common	
	2			2				2	
	16 A	32 A		16 A	32 A		32A	16 A (10 Common)	32 A (10 Common)
	200	250	1000	200	250	1000	2000	200	250
	6	6	6	6	6	6	6	6	6
	AK5PC13	**AK5PC33**	**AK5PC33L**	**AK5PC14**	**AK5PC34**	**AK5PC34L**	**AK5PC34L2**	**AK5PC131**	**AK5PC331**



			AK5PA231		
			3-phase	3-phase + Common	3-phase + Neutral
			3	3	3
	25 A	25 A	25 A	25 A	25 A
	Ph1+Ph3	Ph2+Ph3	-	-	-
	1	1	1	1	1
	AK5PA211PH13	**AK5PA211PH23**	**AK5PA231**	**AK5PA2311**	**AK5PA241**



	3-phase			AK5PA242	3-phase + Common			3-phase + Neutral
	3	6		3	3	6		6
	25 A	25 A	50 A	25 A	25 A (10 Common)	25 A (10 Common)	50 A (10 Common)	50 A
	-	-		-	-	-		-
	2	2	1	2	2	2	1	1
	AK5PA232	**AK5PA232S**	**AK5PA532**	**AK5PA242**	**AK5PA2312**	**AK5PA2312S**	**AK5PA5312**	**AK5PA542**

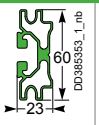
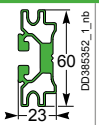
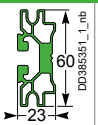
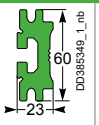
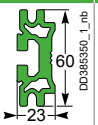
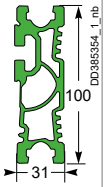
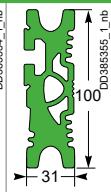
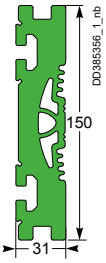
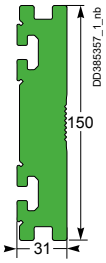
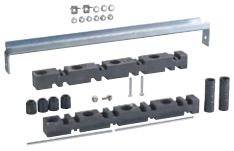
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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

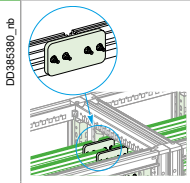
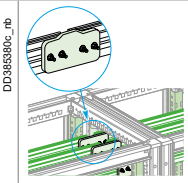
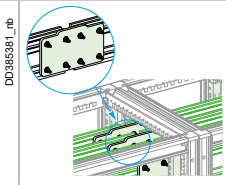
Accessories for Low Voltage Switchboards

Power Busbars

Linergy LGYE - Horizontal Profiles up to 4000 A

Installation in PanelSeT SFN		Up to 1600 A					Up to 4000 A			
Linergy profiles, 2000 mm length										
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Number of profiles per phase		1								
Height available (mm)		150					150		200	
References		LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04565	LVS04566	LVS04567	LVS04568
Busbar supports		 Fixed Support **NSYBHS●●**			 Free Support **NSYBSA**					
Number of supports depending on Icw (kA rms/1 s)	⩽ 15	2 x **NSYBHS●●** *								
	⩽ 25	2 x **NSYBHS●●** *								
	⩽ 30	2 x **NSYBHS●●** *								
	⩽ 40	-	2 x **NSYBHS●●** *							
	⩽ 50	-		2 x **NSYBHS●●** *						
	⩽ 60	-		2+1 **		2 x **NSYBHS●●** *				
	⩽ 65	-			2+1 **					
	⩽ 75	-			2+1 **					
	⩽ 85	-			2+1 **					
	⩽ 100	-				2+4 ***				
References Fixed support		**NSYBHS●●**							**NSYBHS●●** + **LVS04646**	
References Free support		**NSYBSA**							**NSYBSA** + **LVS04646**	

* If spacing between supports > 800 mm add 1 **NSYBSA** free support.
** If spacing between supports > 300 mm add 1 **NSYBSA** free support.
*** If spacing between supports > 135 mm add 1 **NSYBSA** free support.

Joints	Up to 1600 A					Up to 4000 A			
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
References (3P)	3x **LVS04620**					3x **LVS04621**		3x **LVS04623**	
References (4P)	4x **LVS04620**					4x **LVS04621**		4x **LVS04623**	
	 **LVS04620**					 **LVS04621**		 **LVS04623**	

⚠⚠ DANGER

RISK OF ARC FLASH

- 2 fixed supports for PrismaSeT HD Active 700 wide frame are compulsory.
- 1 fixed support for 300/400 wide frame are compulsory.

If more supports are needed, add free supports.

Failure to follow these instructions could result in death or serious injury.

NOTICE

INSUALATED SHIELD INSTALLATION

If insulation clearance < 20 mm add an insulated shield between the busbar and the metal part of the cabinet.

Failure to follow these instructions can result in equipment damage.

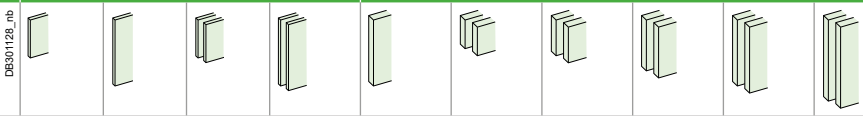
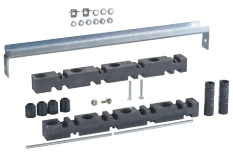
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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

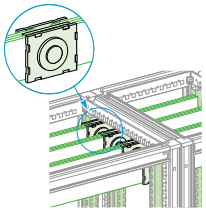
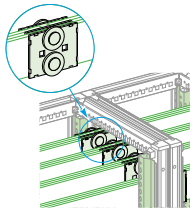
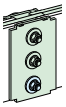
Accessories for Low Voltage Switchboards

Power Busbars

Linergy BS - Horizontal Busbars up to 4000 A

Installation in PanelSeT SFN		Up to 1600 A				Up to 4000 A					
Copper without holes, 2000 mm length											
Permissible current for an ambient temp. of 35 °C around the switchboard	IP > 31	750 A	900 A	1250 A	1600 A	1600 A	1800 A	2000 A	2500 A	2900 A	3340 A
Size of bars (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of bars per phase		1	1	2	2	1	2	2	2	2	2
Height available (mm)		150									200
References		**LVS04536**	**LVS04538**	**LVS04536**	**LVS04538**	**LVS04548**	**LVS04545**	**LVS04546**	**LVS04548**	**LVS04550**	**LVS04552**
Busbar supports		 Fixed Support **NSYBHS●●**				 Free Support **NSYBSA**					
Number of supports depending on Icw (kA rms/1 s)	⩽ 15	2 x **NSYBHS●●** *									
	⩽ 25	2+1 **	2 x **NSYBHS●●** *								
	⩽ 30	2+1 **		2 x **NSYBHS●●** *							
	⩽ 40	2+1 **				2 x **NSYBHS●●** *					
	⩽ 50	-	2+1 **					2 x **NSYBHS●●** *			
	⩽ 60	-				2+1 **					
	⩽ 65	-				2+1 **					
	⩽ 75	-				2+4 ***	2+1 **				
	⩽ 85	-				-		2+1 **			
References Fixed support		**NSYBHS●●**									**NSYBHS●●** + **LVS04646**
References Free support		**NSYBSA**									**NSYBSA** + **LVS04646**

* If spacing between supports > 800 mm add 1 **NSYBSA** free support.
** If spacing between supports > 300 mm add 1 **NSYBSA** free support.
*** If spacing between supports > 135 mm add 1 **NSYBSA** free support.

Joints Installation dans PanelSeT SFN	Up to 1600 A				Up to 4000 A					
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase				
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
References	**LVS04640**	**LVS04641**	**LVS04640**	**LVS04641**	**LVS04641**	**LVS04640**	**LVS04640**	**LVS04641**	**LVS04641**	**LVS04643**
Sliding joints with torque nut	 **LVS04640**			 **LVS04641**						

⚠⚠ DANGER

RISK OF ARC FLASH

- 2 fixed supports for PrismaSeT HD Active 700 wide frame are compulsory.
- 1 fixed support for 300/400 wide frame are compulsory.

If more supports are needed, add free supports.

Failure to follow these instructions could result in death or serious injury.

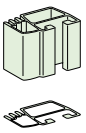
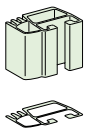
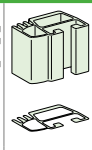
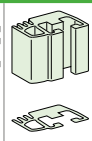
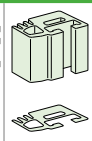
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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

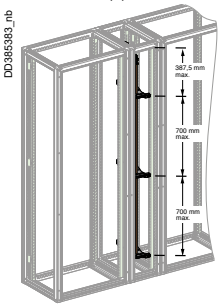
Accessories for Low Voltage Switchboards

Power Busbars

Linergy LGY - Lateral Profiles up to 1600 A

Installation in PanelSeT SFN		L 300				
		 630 A	 800 A	 1000 A	 1250 A	 1600 A
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ▯ 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
References		**LVS04502**	**LVS04503**	**LVS04504**	**LVS04505**	**LVS04506**

Busbar supports





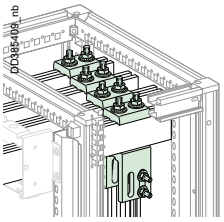


Fixed Support **LVS04651**

Number depending on I_{cw} (kA rms/1 s)						
	⩽ 25	3				
	⩽ 30	-	3			
	⩽ 40	-		3		
	⩽ 50	-			4	
	⩽ 60	-			5	
	⩽ 65	-				5
	⩽ 75	-				7
Only for enclosures with a depth ≥ 500 mm	⩽ 85	-				8

References	LVS04651 + upright adapters **NSYSFPAED** + **NSYSUCR40●●**

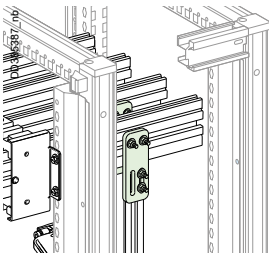
Connections to the Linergy BS horizontal busbar



Note:
Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.

References according to horizontal busbar size				
	5 mm thick		**LVS04634**	**LVS04635**
	10 mm thick	**Width ⩽ 80 mm**	**LVS04636**	
	10 mm thick	**Width > 80 mm**	**LVS04636 + LVS04642** **LVS04638 + LVS04642**	

Connections to the Linergy LGYE horizontal busbar



Note:
Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.

⩽ 1600 A

References (vertical connection)	LVS04602
References (vertical shifted connection)	**LVS04603**

NOTICE

FITTING OF END STOP

An end stop must be fitted on the bottom support: **LVS01109** (sold in lots of 12).

Failure to follow these instructions can result in equipment damage.

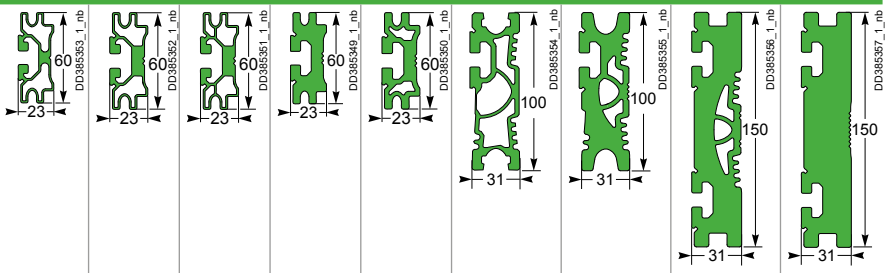
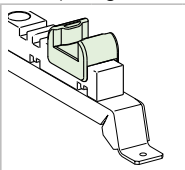
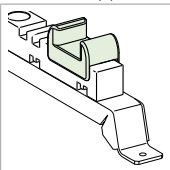
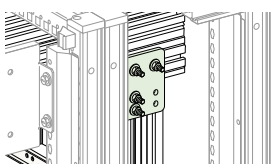
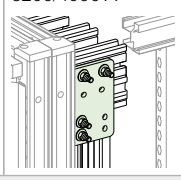
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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Power Busbars

Linergy LGYE - Lateral Profiles up to 4000 A

Installation in PanelSeT SFN		L 300								
Linergy profile, 2000 mm length										
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Number of profiles per phase		1								
Height available (mm)		150					150		200	
References		**LVS04560**	**LVS04561**	**LVS04562**	**LVS04563**	**LVS04564**	**LVS04565**	**LVS04566**	**LVS04567**	**LVS04568**
Busbar supports		 Fixed Support **NSYBVS●●**			 Free Support **NSYBSA**		 Bottom Support **NSYAS●●**			
		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).								
 **Number depending on I_{cw} (kA rms/1 s)**	⩽ 30	3								
	⩽ 40	-		3+2 *			3			
	⩽ 50	-			3+2 *		3			
	⩽ 60	-			3+2 *				3	
	⩽ 65	-				3+2 *				
	⩽ 75	-				3+4 **			3+2 *	
	⩽ 85	-				3+4 **				
	⩽ 100	-						3+6 ***		
References Fixed support		**NSYBVS●●**							**NSYBHS●●** + **LVS04646**	
References Bottom support		**NSYAS●●**							**NSYAS●●** + **LVS04646**	
References Free support		**NSYBSA**							**NSYBSA** + **LVS04646**	
		* If spacing between supports > 400 mm add 1 **NSYBSA** free support. ** If spacing between supports > 250 mm add 1 **NSYBSA** free support. *** If spacing between supports > 130 mm add 1 **NSYBSA** free support.								
Wedging busbars in position		 Wedge Fitted on Bottom Support					 Wedge Fitted on Bottom Support			
		The bottom support **NSYAS●●** + **LVS0465●** is used to place profiles in the correct position. It is not considered to be a busbar support.								
References		**LVS04658** (set of 12 wedges)					**LVS04659** (set of 12 wedges)			
Connections to the Linergy LGYE horizontal busbar		2000/2500 A 							3200/4000 A 	
		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.								
References (short connection)		**LVS04604**							**LVS04607**	
References (long connection)		**LVS04605**								

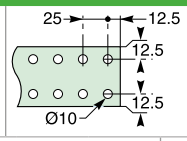
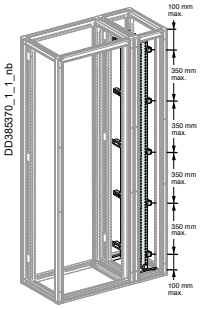
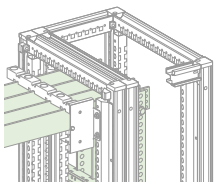
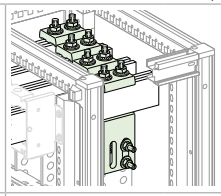
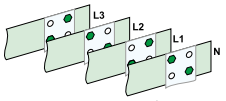
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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

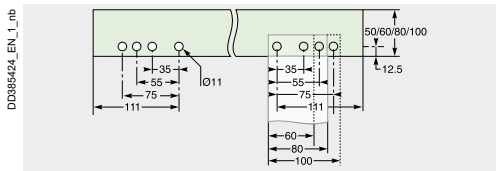
Accessories for Low Voltage Switchboards

Power Busbars

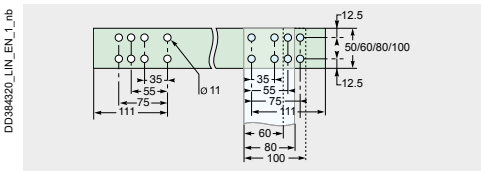
Linergy BS - Lateral Flat Busbars up to 3200 A

Installation in PanelSeT SFN		Up to 1600 A				Up to 3200 A						
Pre-slotted copper, 1675 mm length												
Permissible current for an ambient temp. of 35 °C around the switchboard	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Number of profiles per phase		1		2		1			2			
References		LVS04516	LVS04518	LVS04516	LVS04518	LVS04525	LVS04526	LVS04528	LVS04525	LVS04526	LVS04528	LVS04550
Busbar supports		 Fixed Support **NSYBVS●●**				 Free Support **NSYBSA**			 Bottom Support **NSYAS●●**			
		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar in the correct position. It does not count as a busbar support.										
	**Number of supports depending on I_{cw} (kA rms/1 s)**											
	⩽ 15	3 *										
	⩽ 25	3+2 *			3 *							
	⩽ 30	3+2 *									3 *	
	⩽ 40	3+4		3+2 *								
	⩽ 50		3+4			3+2 *						
	⩽ 60					3+4					3+2 *	
	⩽ 65					3+4					3+2 *	
	⩽ 75						3+6		3+4			
	⩽ 85									3+4		
References Fixed support		**NSYBVS●●**										
References Bottom support		**NSYAS●●**										
References Free support		**NSYBSA**										
		* If spacing between supports > 350 mm add 1 NSYBSA free support.										
Connections to the Linergy BS horizontal busbar												
		Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(3) 				References **LVS04636**, **LVS04637**, **LVS04638** are supplied individually: 1 connection per phase. Reference **LVS04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.						
		1 bar per phase		2 bars per phase		1 bar per phase			2 bars per phase			
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
References depending on horizontal busbar size	**Width ⩽ 80 mm**	**LVS04645**				**LVS04636**		**LVS04637**				**LVS04645**
	Width > 80 mm	**LVS04645**				**LVS04636** + **LVS04642**		**LVS04637** + **LVS04642**				**LVS04645**

(1) Drill Hole Dimensions for 5 mm Thick Horizontal Busbars



Drill Hole Dimensions for 10 mm Thick Horizontal Busbars



⚠⚠ WARNING

RISK OF ELECTRIC SHOCK, ARC FLASH AND HUMAN SAFETY

For a busbar with 75 mm distance between bars, the bars must be completely covered.

Failure to follow these instructions could result in death or serious injury.

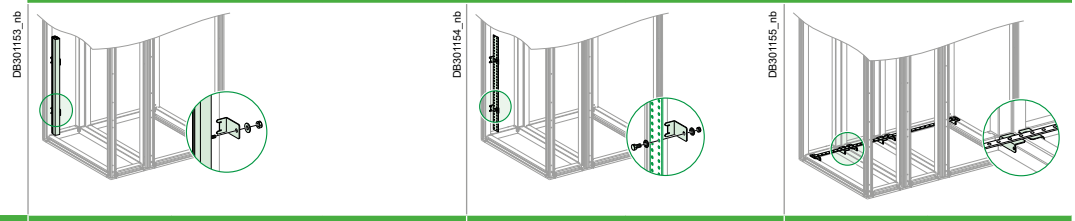
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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

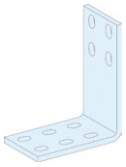
PE Conductor

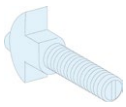
Linergy TB

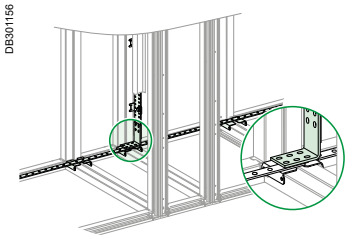


Characteristics		Vertical PE conductor with Linergy LGY profile (W = 1670 mm)			Vertical PE conductor with Linergy BS busbar (W = 1675 mm)		Horizontal PE conductor with Linergy BS busbar	
Rated short-time current	**(Isc)**	≤ 65	> 65... ≤ 80	= 100	≤ 40	> 40	≤ 40	> 40
Permissible current	**(A)**	630	800	1250	-	-	-	-
Bar size	**(mm)**	-	-	-	25 x 5	50 x 5	25 x 5	50 x 5
Characteristics		-	-	-	Drilled flat bar Ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	-	-
References		**LVS04502**	**LVS04503**	**LVS04505**	**LVS04512**	**LVS04515**	**LVS04512**	**LVS04512**

Connection Between PE Conductors

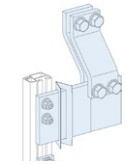

LVS04672

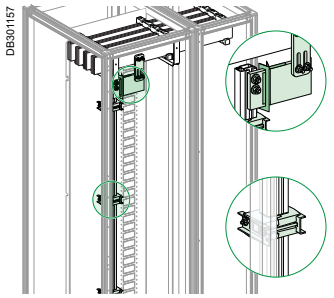

LVS04766



Characteristics	Composition	References
Connection plates for horizontal/vertical PE bars	2 copper angle brackets	**LVS04672**
Linergy connection hardware	20 M8 screws (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars	**LVS04766**

PEN Conductor


LVS04656



Characteristics	References
Linergy TB PEN installation kit with LGY vertical profile	**LVS04656**
1600-A connection 10-mm horizontal busbar with Linergy LGY profile	**LVS04636**
Linergy LGYE vertical connection 1600 A	**LVS04602**

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

Accessories for Low Voltage Switchboards

Insulated Flexible Bars

Connection Between Device and Busbars

- The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.
- The bar sizes indicated below take into account the derating curves of devices.
- Width: 1800 mm
- Rated insulation voltage (Ui): 1000 V
- Maximum withstand temperature for the insulated material: 125 °C



04742

Characteristics	Size (mm)	References
NSX100	20 x 2	**LVS04742**
NSX160/250	20 x 3	**LVS04743**
NSX400	32 x 5	**LVS04751**
NSX630	32 x 8	**LVS04753**
FM 200 A Linergy	20 x 3	**LVS04743**
FC 3P Linergy	32 x 8	**LVS04753**
FC 4P Linergy	32 x 8	**LVS04753**
Fupact 250	24 x 5	**LVS04746**
Fupact 400	32 x 5	**LVS04751**
Fupact 630	32 x 8	**LVS04753**

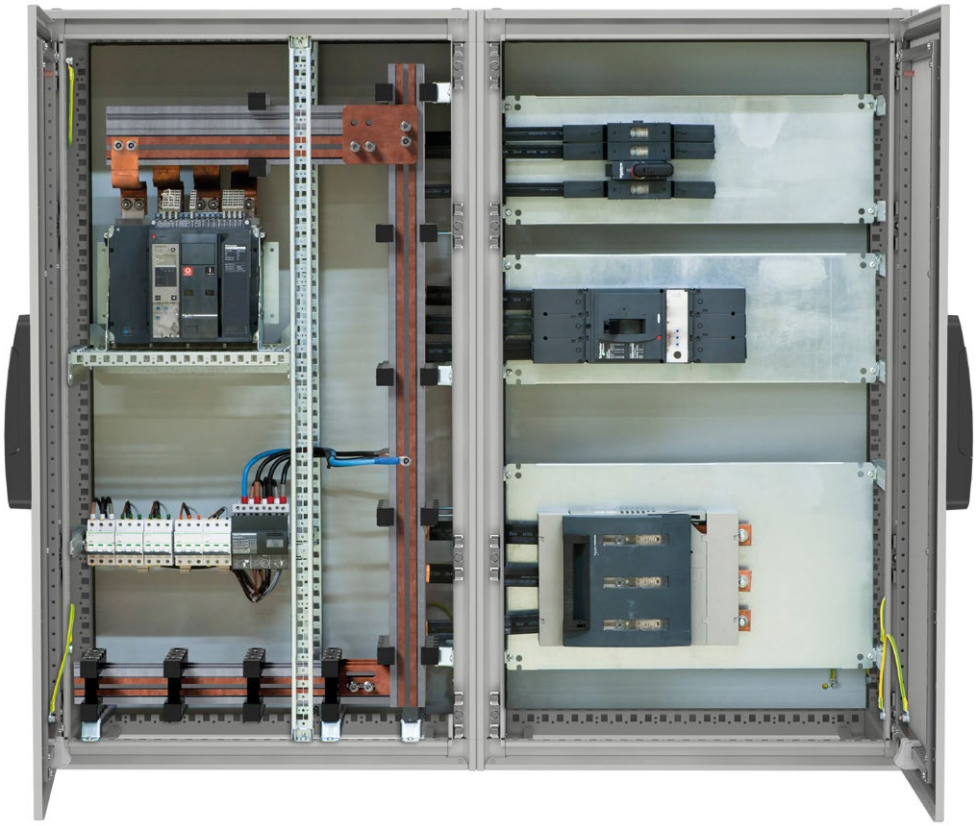
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PanelSeT SFN Assemblies with IEC 61439-2 Certification

Introduction

Because low-voltage switchboards must comply with the IEC 61439-2 standard, we have tested the most unfavorable and the most representative configurations (§ 10.10.2 of IEC 61439-1 ed2 2011) ranging up to 4000 A. We cover the entire product range, based on the PanelSeT SFN universal assembly system, enabling you to comply with the requirements of the standard.



To meet continuity of service and electrical safety requirements, we provide you with certificates based on assemblies tested with a third-party organization in accordance with the IEC 61439-2 standard, adopting the most commonly used configurations, which will help you finalize your switchboard with complete confidence using useful, reliable and precise information that has been verified.

These tests cover the entire PanelSeT SFN range of dimensions and supplement our range of tested PrismaSeT HD enclosures based on the functional unit system of PrismaSeT, and PanelSeT SFN MCC for fixed MCC applications.

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PanelSeT SFN-SM: Steel Floor-Standing Enclosures

IEC 61439-2 Certification

PanelSeT SFN IEC 61439-2 Certified Assemblies

Compatibility table

Dimensions			Intensity (A)				
Height (mm)	Width (mm)	Depth (mm)	≤ 800 A	≤ 1250 A	≤ 1600 A	≤ 2500 A	≤ 4000 A
1200	600	400	●				
	600	600	●				
	800	400	●				
	800	600	●				
1400	600	400	●	●			
	800	400	●	●			
1600	600	600	●	●			
	600	800	●	●			
	800	600	●	●			
	800	800	●	●			
1800	600	400	●	●	●		
	600	500	●	●	●		
	600	600	●	●	●	●	
	600	800	●	●	●	●	
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	1200	400	●	●	●		
	1200	500	●	●	●		
	1200	600	●	●	●	●	
2000	600	400	●	●	●		
	600	500	●	●	●		
	600	600	●	●	●	●	
	600	800	●	●	●	●	●
	800	400	●	●	●		
	800	500	●	●	●		
	800	600	●	●	●	●	
	800	800	●	●	●	●	●
	1000	400	●	●	●		
	1000	500	●	●	●		
	1000	600	●	●	●	●	
	1000	800	●	●	●	●	●
	1200	400	●	●	●		
	1200	500	●	●	●		
	1200	600	●	●	●	●	
	1200	800	●	●	●	●	●
	1600	400	●	●	●		
	1600	500	●	●	●		
	1600	600	●	●	●	●	
2200	600	600	●	●	●	●	
	600	800	●	●	●	●	●
	800	600	●	●	●	●	
	800	800	●	●	●	●	●
	1000	600	●	●	●	●	
	1200	600	●	●	●	●	
	1200	800	●	●	●	●	●

●: Certified dimensions for indicated intensity



How to assemble a PanelSeT SFN switchboard
(Implementation of the standard IEC 61439) Technical guide
Ref: UEMKTG002EN

IEC 61439-2 certification (IECEE CB scheme issued by DEKRA) is valid only once installation has been carried out, according to the recommendations indicated in the technical guide, "how to assemble a PanelSeT SFN switchboard", with the Schneider Electric devices featured in this guide.

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PanelSeT PLA assembly with IEC 61439-1&2 certification

A specific architecture of PanelSeT PLA suitable for applications as EV charging station has been certified with IEC 61439-1&2 up to 630 A.
The solution was certified as a full assembly including a PanelSeT PLA polyester floor-standing enclosure with DLP chassis, thermal management and Schneider Electric devices.
Choosing a polyester enclosure offers multiple advantages for outdoor and public areas, such as Class II insulation, fire resistance and corrosion resistance



Compatibility table

Dimensions			Intensity (A)
Height (mm)	Width (mm)	Depth (mm)	≤ 630 A
1500	1250	420	●

The tests were carried out with one configuration, it is necessary to build a similar solution to obtain the same electrodynamic constraints and heat dissipation for the certification to be valid.

Mandatory references:
- PanelSeT PLA: Dimensions 1500x750x420mm.
- 2x fans : **NSYCVF550M230FB** with IP55 filters: **NSYCAF190**
- 2x outlet grille (one in each side): **NSYCAG291LPF**
- Heavy duty ventilated canopy: **NSYPCVR124HD**
- In case of completely sealed PLA: **NSYTJPLA124G**

Mounting accessories:
- Modular chassis: **NSYDLP264G**
- Internal door: **NSYPAPLA155G**

The test for the certification have been performed with one configuration. Please contact your SE team for more information on this configuration.

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PanelSeT S3DM-S3DB: Steel Wall-Mounted Enclosures

Introduction



Vertical Position

Horizontal Position

S3DM:
Enclosure for Modular Switchgear installation with cable gland plates at the top and bottom. It can be equipped with:
- Modular chassis (NSYDLM•••) with cut-out front plates for 24 to 234 modules according to the dimensions and references.
- 6 mm² earth connection placed between the body and the door.

S3DB:
Ready to be equipped with terminal blocks, a ladder mounting plate and a symmetrical DIN rail (to be ordered separately).
The body does not have cable gland openings.
The PanelSeT S3DB enclosure is the ideal coupling enclosure with FL21 cut-outs.

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PanelSeT S3DM-S3DB: Steel Wall-Mounted Enclosures

Introduction

S3DM:



Easily Removable and Reversible Door

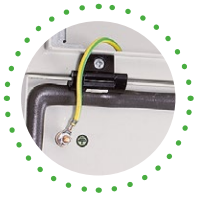
- With 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges
- Three locking points for heights of more than 600 mm
- Perforated rails on the hinge side of the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm



Dedicated Accessories

- The DLM modular chassis consists of metal cut-out front panels which can clip on with any screws
- Rigid structure made from galvanized steel. The depth of the chassis can be adjusted from 40 to 85 mm between the rail and the front panel, allowing the installation of all types of devices
- For enclosures with a depth of 150 mm, the chassis can be installed at the front or on the backstuds at the rear. It is possible to adjust its depth using the adjustable supports (NSYSDCR●● type)
- It can also be equipped with a plain mounting plate, see page 475

S3DB:



Enhanced Safety

Welded studs on door and body
(earth cables to be ordered separately)



Smart

Example of installation with the ladder mounting plate

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PanelSeT S3DM: Steel Wall-Mounted Enclosures

Characteristics

Supply:
Wall-mounted enclosure supplied with 3-mm double-bar lock as standard

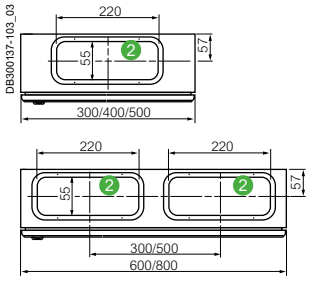
PanelSeT S3DM



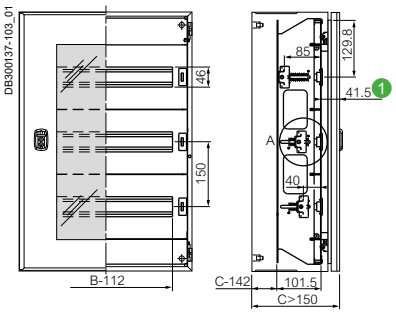
- Single-piece body, folded and welded.
- Front rail with double sheet thickness, gutter-shaped.
- 4 M8 x 25 mm shouldered backstuds for installing chassis and step slides, leaving a space of 10 mm behind them.
- Cable gland plate (245 x 80) at the top and bottom of the enclosure, enabling the maximum access surface (also available in plain door).
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Ingress protection rating: IP66 according to IEC 60529
- Mechanical protection rating: IK08 according to IEC 62262

Height (mm)	Width (mm) (B)	Depth (mm) (C)	Depth (mm) (C)	References
400	300	150	150	**NSYS3DM4315T**
500	400	150	150	**NSYS3DM5415T**
600	400	150	150	**NSYS3DM6415T**
600	600	150	150	**NSYS3DM6615T**
700	500	150	150	**NSYS3DM7515T**
800	600	150	150	**NSYS3DM8615T**
1000	600	150	150	**NSYS3DM10615T**
1000	800	150	150	**NSYS3DM10815T**

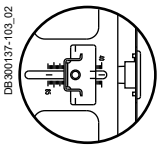
Dimensions



B: Enclosure width
C: Enclosure depth



Front panel cut-out (see table below)



Detail A

1 Front face of the modular chassis / front face of the door
2 Cable gland plates at the top and bottom of the enclosure.

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PanelSeT S3DB: Steel Wall-Mounted Enclosures

Characteristics

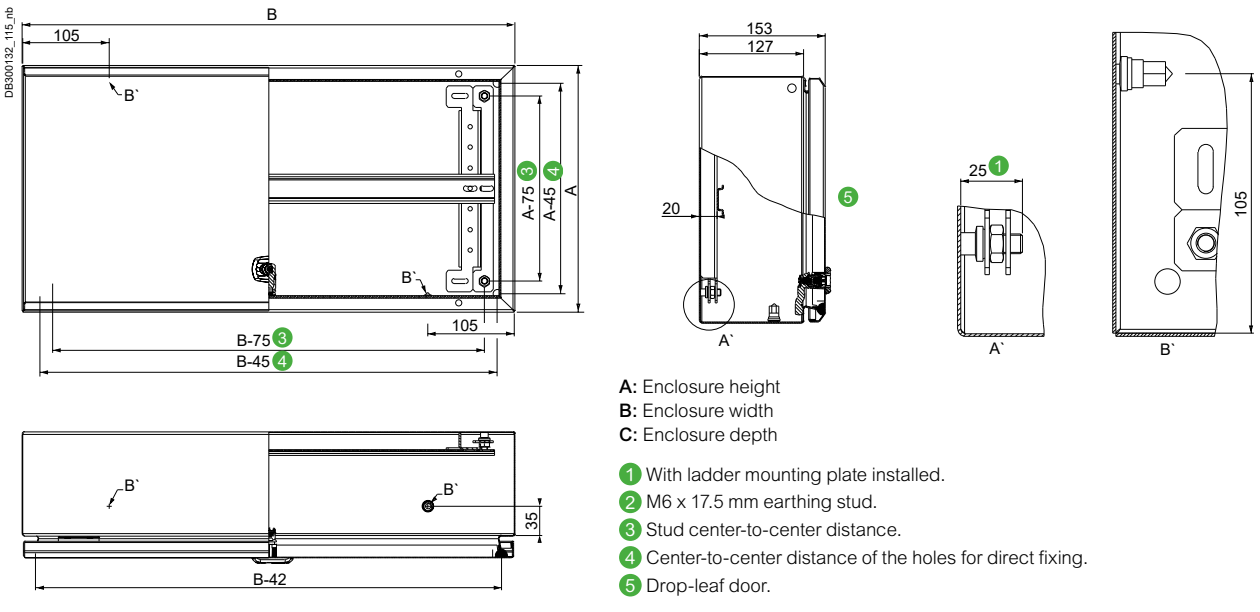
PanelSeT S3DB



Body	Single-piece body, folded and welded. Front rail with double sheet thickness, guttershaped. • Depth 150 mm: The terminal enclosure can be installed vertically (width becoming height, and vice versa) • Wall-mounted directly or by means of fixing lugs (to be ordered separately). • 4 M8 x 25 shouldered backstuds. • Body without cable gland openings.
Door	• Easily removable and reversible door, with 20 mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 180°. • Door opening to more than 180° for maximum accessibility (the door comes to rest on the body of the enclosure in top position). • Maximum acceptable load on the door: 20 kg/m². • Wall-mounted enclosure supplied with 3-mm double-bar lock as standard. • M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure.
Dedicated accessories	The terminal enclosure, with a depth of 150 mm, can be equipped: • With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds. • With a symmetrical rail to be installed on the rails. • With a 6 mm² earth braid to be placed between the body and the door. • It can also be equipped with a plain mounting plate, see page 475.
Finish	• Structured finish, epoxy polyester powder
Color	• RAL 7035 gray
Protection & Standards	• IP66 according to IEC 60529 • Mechanical protection rating: IK10 according to IEC 62262

Height (mm)	Width (mm)	Depth (mm)	References
250	300	150	**NSYS3DB25315**
250	400	150	**NSYS3DB25415**
250	500	150	**NSYS3DB25515**
300	400	150	**NSYS3DB3415**
300	500	150	**NSYS3DB3515**
300	600	150	**NSYS3DB3615**
400	800	150	**NSYS3DB4815**
600	400	150	**NSYS3DB6415**

Dimensions



A: Enclosure height
B: Enclosure width
C: Enclosure depth

1. With ladder mounting plate installed.
2. M6 x 17.5 mm earthing stud.
3. Stud center-to-center distance.
4. Center-to-center distance of the holes for direct fixing.
5. Drop-leaf door.

The dimensions provided include the ladder mounting plate which is the most commonly used accessory with this enclosure.

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Specific Applications

Motor Control Center

Panel**SeT** SFN: Compartmentalized Enclosures

Image 09



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Panel**SeT** SFN: Compartmentalized Enclosures for Motor Control Centers (MCCs)

Introduction	**238**
Characteristics	**240**
Selection Tables of Functional Units	**248**
Selection of Busbar	**254**
Selection Tables of Busbar	**255**
Selection Tables for Enclosure Partitioning	**261**
Accessories	**266**

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PanelSeT SFN: Compartmentalized Enclosures for MCC

Introduction



Enclosures with fix compartments for Motor Control Centers (MCCs)
PanelSeT SFN enclosures can host compartments for Motor Control Centers in industrial environments (IP54), thanks to a full assortment of dedicated accessories and solutions, such as:

- Lynergy distribution systems
- Motor starter solutions
- Partial doors and front fixing panels
- Partitioning forms accessories

They have been tested taking into account the characteristics of the devices, in order to validate a high degree of reliability in system operation.

PanelSeT SFN is designed for the installation of motor starters up to 250 kW.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

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PanelSeT SFN: Compartmentalized Enclosures for MCC

Introduction



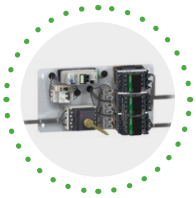
Lower Impact Approach

- CO_2 footprint reduction using low-carbon emissions steel
- Recycled cardboard packaging



Flexibility

- Compatible with PanelSeT SFN and PrismaSeT HD to combine power distribution, automation and motor control in the same switchboard
- Unrivaled number of possible combinations thanks to kits model and PanelSeT customization services



Enhanced Reliability

- Compliant with IEC 61439-1&2 standards: enabling to host motor starters up to 250 kW
- Certified with Linergy busbars up to form 4b partitioning
- Use of high quality components and appropriate design to meet the requirements of heavy industry in terms of service life



Easy Mounting

- Designed for streamlined mounting, enabling quick and efficient installation of the motor protection functional units
- Easily combined side-by-side or back-to-back

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

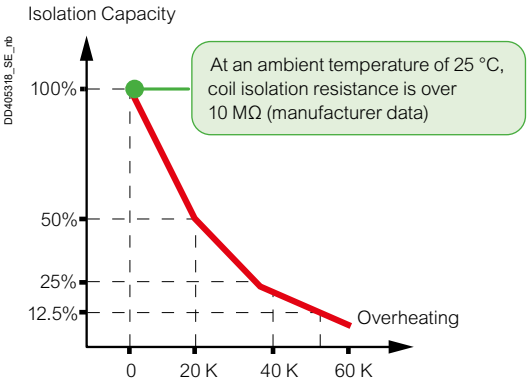
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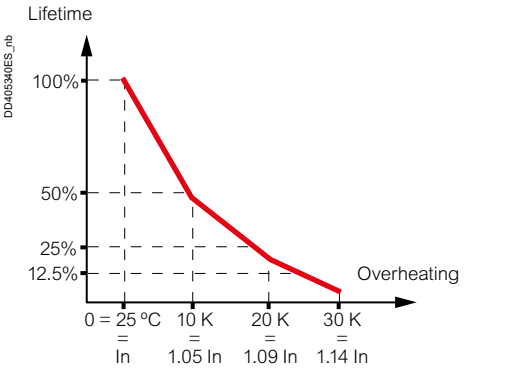
PanelSeT SFN: Compartmentalized Enclosures for MCC

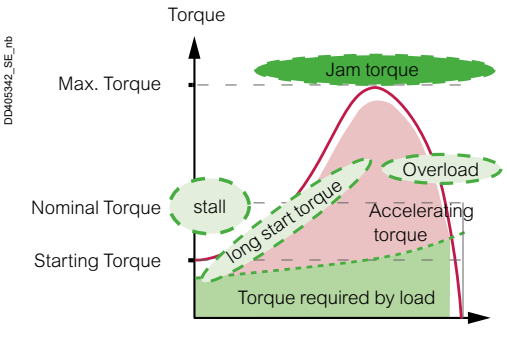
Characteristics

Motor Protection

In addition to the motor power and the starter type (direct, reversing, star-delta…),
4 main criteria must be considered when choosing a motor starter:
- The operating voltage,
- The type of thermal protection, electro-mechanical or electronical,
- The type of magnetic protection according to the switchboard's Isc,
- The type of installation according to the required availability level.







Operating Voltage

A network's operating voltage is a decisive parameter in the choice of motor protection. The operating voltage will have an impact on the device performance and the installation constraints.
For instance, the voltage will influence:
- The breaking performances,
- The safety areas.

Motor Protection

Protecting the motors to extend their lifetime
- Overheating in electric motors is caused by copper and ferro-magnetic losses:
  - the current I is proportional to the motor's load. Copper losses are proportional to I² (stator and rotor),
  - hysteresis cycles in ferro-magnetic materials and the induced
- Foucault currents cause overheating, which is in particular proportional to frequency.
- The consequence of abnormal overheatings is a reduced isolation capacity of the materials, thus leading to a significant shortening of the motor lifetime, as shown in the opposite diagram.
- In continuous or semi-continuous processes, availability is a major issue. It is therefore decisive to observe accurately the operating conditions of the motors.
- Motor protection relays are the components dedicated to this task. They provide various levels of accuracy and functionalities, in order to meet the expectations of the process manager.

Supervising finely the motors to improve process availability

An electric motor converts electric energy into mechanical energy. When voltage, current and frequency change, the speed and torque of the motor change as well. And conversely, any changes in charge have a direct impact on the electrical parameters.
Electromechanical thermal relays help protect the motor against overloads.
Electronic relays help protect the motor against overloads on the basis of very sophisticated and highly accurate thermal patterns.
These relays can identify motor overload conditions and transmit the information, alerting the operator of problems,
These relays transmit many complementary parameters, providing information to operators and allowing them to take action against motor stops or to restart a motor quickly if a stop has occurred.

Examples:
- Motor underload may indicate pump cavitation,
- Phase inversion may indicate a maintenance fault that would be difficult to diagnose without such information.
- In addition to the current, electronic relays can also monitor voltage, and consequently power and power factor. They can also monitor leakage current and measure coil temperature if a sensor is integrated. These data can be used for preventive maintenance and are helpful when resolving problems.
- Finally, electronic relays assume information processing functions such as state and fault statistics. They are also able to provide logical solutions and to respond to process-specific requirements.

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Motor Protection

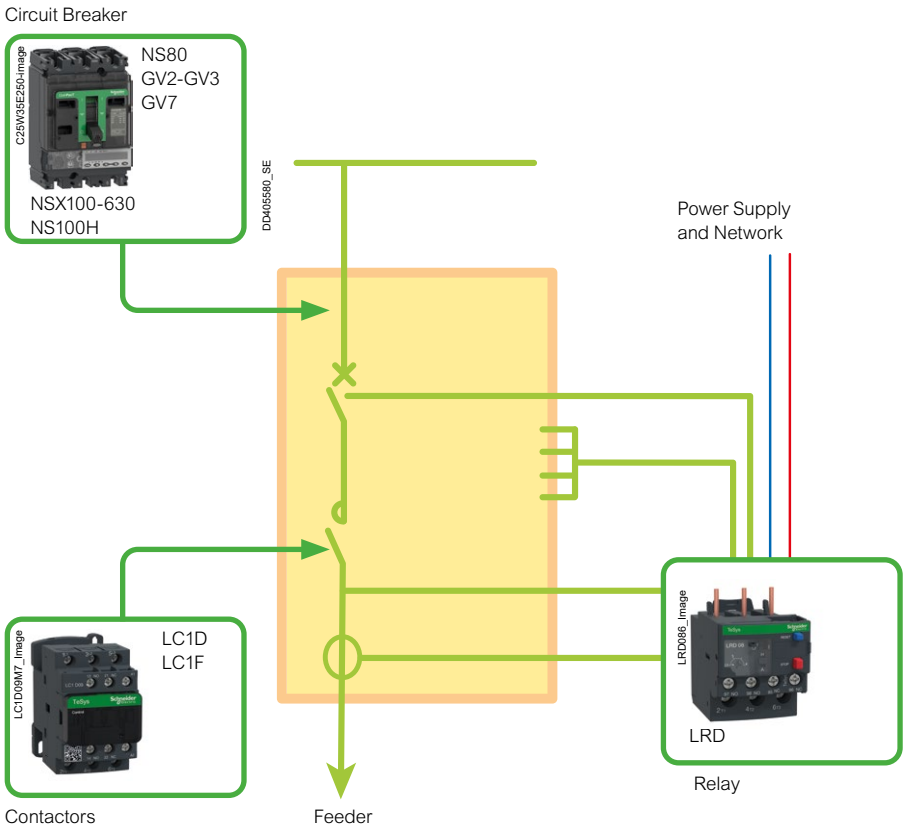
Magnetic Protection: Circuit-Breakers and Fuses

Schneider Electric has chosen to promote circuit-breakers wherever possible because of their advantages in terms of maintenance and quick reactivation.

A motor starter with Circuit-Breakers is an universal solution that can be exported to all countries, unlike fuses which has a different solution depending national standards.

- Reduced dimensions
- Limited temperature rise
- Faster maintenance
- No risk of over-rating the fuse cartridge (causing motor destruction) or underrating (untimely tripping)

PanelSeT SFN: a Combination for Motor Starter Control



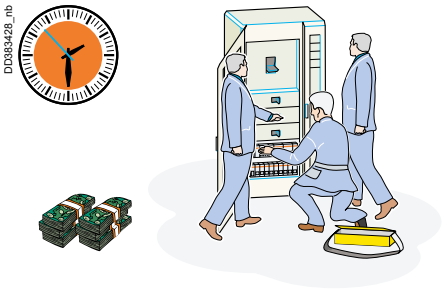
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PanelSeT SFN: Compartmentalized Enclosures for MCC

Characteristics

Coordination

Type 1 Coordination



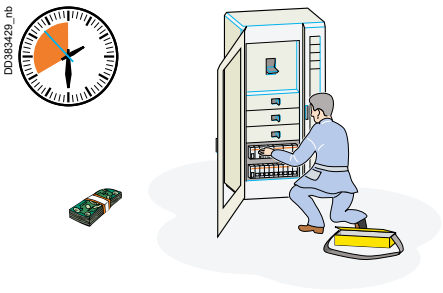
Coordination, What Is It About?

A motor starter can be made up of 1, 2, or 3 different devices.
They have to be coordinated to enable an optimal operation of the installation.

Aims of Coordination

In the event of a fault, coordination serves the following purposes:
- To enhance the protection of people and equipment,
- To improve continuity of service,
- To reduce maintenance costs (manpower and replacement equipment).

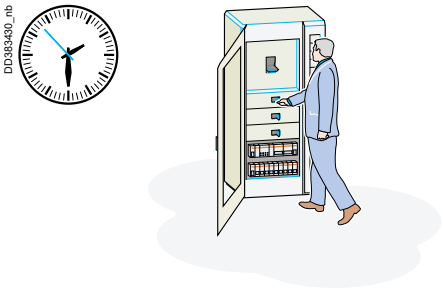
Type 2 Coordination



Types of Coordination as Per IEC 60947-4-1

- Type 1 coordination: Basic solution
  - no continuity of service,
  - high maintenance costs in case of a fault (manpower and equipment).
- Type 2 coordination: Solution improving continuity of service
  - reduced machine downtime,
  - reduced cost of replacement equipment.
- Total coordination: Withdrawable solutions as per IEC 60947-6-2:
  - no damage nor resetting of devices following a fault,
  - immediate return to operation.

Total Coordination



Schneider Electric's Choice of Coordination

For Motor Control Centers switchboards, Schneider Electric applies:
> Type 2 coordination because of:
- Low cost for repairing the equipment,
- Reduced machine downtime,

and does no longer apply:
> Type 1 coordination and non-coordinated feeders because of:
- Expensive return to operation,
- Extended machine shutdowns.

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Motor Starter Solutions

GV2P10_Image



LC1D09M7_Image



2-Component Motor Starter

Thermomagnetic circuit-breaker + contactor

Advantages

- Very economic solutions.
- Suitable for all types of diagrams.
- Manual reset following a thermal fault.
- Type 2 coordination.

Applications

- Manufacturing and continuous and semi-continuous processes.

GV2P10_Image



LC1D09M7_Image



LRD086_Image



3-Component Motor Starter

Advantages

- Wide choice of solutions.
- Suitable for all types of diagrams.
- Manual or automatic reset following a thermal fault.
- 2 starting classes (10 and 20).
- Type 2 coordination.
- Separation of thermal and magnetic faults.

Magnetic circuit-breaker + contactor + thermal protection

- For manufacturing and continuous and semi-continuous processes.

Switch-disconnector fuse + contactor + thermal protection

- For all types of machines.
- For manufacturing and continuous and semi-continuous processes.

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PanelSeT SFN: Compartmentalized Enclosures for MCC

Characteristics

Enclosures


Image 06

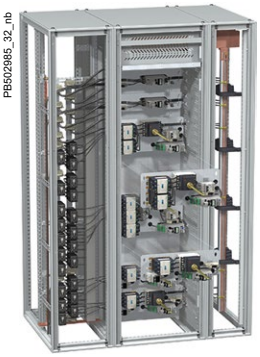
Presentation

The PanelSeT SFN system of enclosures with compartments used for MCC purposes is based on the PanelSeT SFN range.
They offer the same functions:
- Various configuration options, combined side-by-side or back-to-back.
- The built-in partial doors and panels meet the required degree of protection.

And the same advantages:
- Save time through all assembly phases.
- Enclosure robustness.

Modularity and Versatility

The enclosures feature offer 36 vertical modules, each 50 mm high, of usable space. They are available in 4 sizes and with 2 additional chambers for distribution busbars or cabling management. They can also be coupled with PrismaSeT HD for power distribution switchboards.


PB502985_32_nb

The Functional System

Metal structure

The switchboard is made up of one or more frameworks combined side-by-side or back-to-back, on which a complete selection of cover panels and partial doors can be mounted.
They are used to build IP54 configurations and can be fitted with ClimaSys options for airing.
Electrical continuity is achieved using earthing braids.
Plain partial doors are reversible for quick left or right-hand mounting by a single person, 120° opening.
The robustness of the locking system enables the accurate alignment of the assembly. A system with 1 to 4 locking points and 5-mm double-bar inserts are standard, other shaped inserts are available as options.

Distribution system

Vertical busbars positioned in a lateral compartment and horizontal busbars are used to distribute electricity inside the switchboard.

Complete functional units

Functional units comprise the following components:
- Motor control and protection devices,
- A dedicated plain mounting plate for device installation,
- Gland boxes for terminal isolation on the back of the switchboard or on the side of the cabling chamber to obtain form 4b,
- Devices for on-site connections.

The functional units are modular and designed for stacked installation.
The system includes everything needed for the mounting, supply and onsite connection of the functional unit. The components of the PanelSeT SFN compartment system and those of the functional units in particular have been designed and tested in accordance with device characteristics. This design approach provides a high degree of reliability in system operation and improves safety for personnel.
Electrical switchboards built according to Schneider Electric's recommendations fully comply with international standards IEC 61439-2 and IEC 62208.

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PanelSeT SFN: Compartmentalized Enclosures for MCC

Characteristics

Enclosures



Resistant to the Most Demanding Environments

- IP54 degree of protection for dusty and/or damp industrial environments.
- Seismic resistance.
- Optional forced-airing for environments with ambient temperatures above 45 °C or for devices with considerable heat loss (see ClimaSys offer options).

Type-Tested

The PanelSeT SFN enclosures equipped for Motor Control Centers are fully tested in accordance with IEC 61439-2.

- Certified by independent laboratories.
- Permanent quality control through Schneider Electric testing laboratories.

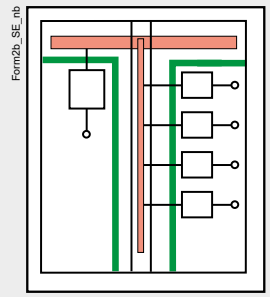
Type-testing includes the following tests:

- Temperature-rise limit,
- Dielectric properties,
- Short-circuit withstand,
- Effectiveness of protective circuit,
- Conformity of the clearance and creepage distances,
- Mechanical operation,
- Degree of protection.

Partitioning

Partitioning is essential to provide the an enhanced protection of the installation and the personnel carrying out work in the switchboard. Used in conjunction with standard protections (terminal shields, factory-built connections), partitioning helps prevent any direct contact with live parts.

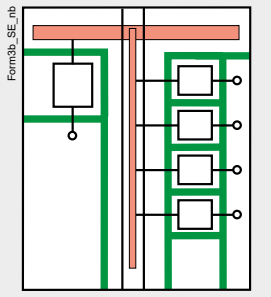
Form 2b



The partitioning separates busbars from:

- Terminals for external conductors
- The functional units and the terminals

Form 3b

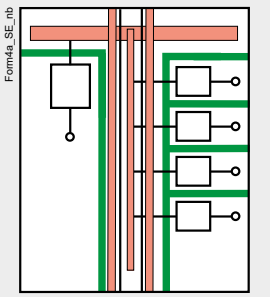


The partitioning separates:

- Busbars from terminals for external conductors
- Functional units from each other and from the busbars

Terminals aren't separated from each other.

Form 4a

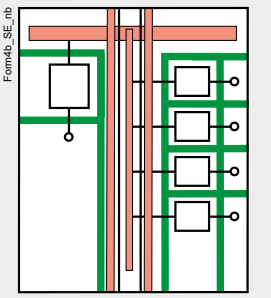


The partitioning separates:

- Busbars from terminals for external conductors
- Functional units from each other and from the busbars

Terminals for external conductors in the same compartment as the associated functional unit.

Form 4b



The partitioning separates:

- Busbars from terminals for external conductors
- Functional units from each other and from the busbars
- Terminals for external conductors between them

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN: Compartmentalized Enclosures for MCC

Characteristics

Image 07



General data	
Applications	MCC
Standards	IEC 61439-2
Internal	No
Installation	Indoor

Mechanical data	
Cable inlet	Top / Bottom
Access	Front / Rear Side
IP	54
IK	10
Form	4b type 7
Withdrability	FFF
Dimensions	H 2000 / W 600 and 800 / D 600 and 800
Color	RAL 7035 gray

Electrical data	
Insulation voltage (Ui)	1000 V
Rated voltage (Ue)	415 V
Coordination	Type 2
Frequency	50/60 Hz
Auxiliary circuit voltage	230 V
Degree of pollution	3
Rated current (IP>31)	2500 A (with Copper and Linergy)
Short circuit (I_{cw} - 1s)	85 kA

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN: Compartmentalized Enclosures for MCC

Characteristics







Mounting Plates for Fixed MCC Switchboards

The plain mounting plates can be used to install all the devices making up an MCC motor starter on a single support.

Easy installation

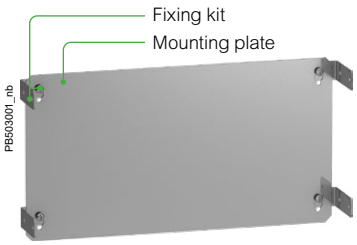
Motor feeders can be prepared on a bench making the cut-outs needed. The quick-fixing system allows holding the mounting plate during device installation and wiring. The mounting plate can be fixed on the side partitions in adjustable depth with a pitch of 50 mm.

Switchboard upgradeability

- Functional units with partitioning of Form 3b and 4b.
- Access from sides and rear.
- Separation panels with pre-cuts for cable glands ref. **LVS01215**.

Functional unit selection

- 3 to 24 module (150 to 1200 mm) mounting plates are installed in 600 and 800 mm wide enclosures.
- Capacity of PanelSeT SFN enclosures equipped for Motor Control Centers: 36 modules (50 mm each).
- Cables are routed in dedicated 300 or 400 mm wide lateral compartments.



Plain Mounting Plates

Dimension of the compartment				
Number of modules	**Height (mm)**	**Width (mm)**	**Mounting plate**	**Fixing kit**
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
3M	150	800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
4M	200	800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
5M	250	800	**NSYMP5M8**	
6M	300	600	**NSYMP6M6**	
6M	300	800	**NSYMP6M8**	
8M	400	600	**NSYMP8M6**	
8M	400	800	**NSYMP8M8**	
9M	450	600	**NSYMP9M6**	
9M	450	800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
12M	600	800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
16M	800	800	**NSYMP16M8**	
18M	900	600	**NSYMP18M6**	
18M	900	800	**NSYMP18M8**	
20M	1000	600	**NSYMP20M6**	
20M	1000	800	**NSYMP20M8**	
24M	1200	600	**NSYMP24M6**	
24M	1200	800	**NSYMP24M8**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables of Functional Units

2-Component Motor Starter

Direct on Line and Reversing, GV2, GV3 And GV7

Selection of Recommended Combinations

GV2							
Iq (kA)		Motor characteristics		Motor starter solution		Number of modules on mounting plate (1M = 50 mm)	
Without limiter	With GV1L3	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor (1)	DOL	Reversing
85	-	0.18	0.6	GV2-P04	LC1D09	3M	3M
85	-	0.25	0.9	GV2-P05	LC1D09	3M	3M
85	-	0.37	1.1	GV2-P06	LC1D09	3M	3M
85	-	0.55	1.5	GV2-P06	LC1D09	3M	3M
85	-	0.75	1.8	GV2-P07	LC1D09	3M	3M
85	-	1.1	2.6	GV2-P08	LC1D09	3M	3M
85	-	1.5	3.4	GV2-P08	LC1D09	3M	3M
85	-	2.2	4.8	GV2-P10	LC1D09	3M	3M
85	-	3	6.5	GV2-P14	LC1D09	3M	3M
85	-	4	8.2	GV2-P14	LC1D18	3M	3M
50	85	5.5	11	GV2-P16	LC1D25	3M	3M
50	85	7.5	14	GV2-P20	LC1D25	3M	3M
50	85	10	19	GV2-P21	LC1D32	3M	3M
50	85	11	21	GV2-P22	LC1D32	3M	3M
50	85	15	28	GV2-P32	LC1D32	3M	3M
50	-	18.5	34	GV3-P40	LC1D50A	3M	4M
50	-	22	40	GV3-P50	LC1D50A	3M	4M
50	-	30	55	GV3-P65	LC1D65	3M	4M
70	-	15	28	GV7-RS40	LC1D40	3M	6M
70	-	18.5	34	GV7-RS40	LC1D50	3M	6M
70	-	22	40	GV7-RS50	LC1D80	3M	6M
70	-	30	55	GV7-RS80	LC1D80	3M	6M
70	-	37	66	GV7-RS80	LC1D80	3M	6M
70	-	45	80	GV7-RS100	LC1D115	4M	9M
70	-	55	100	GV7-RS150	LC1D150	6M	9M
70	-	75	135	GV7-RS150	LC1F185	9M	12M
70	-	90	160	GV7-RS220	LC1F225	9M	12M
70	-	110	200	GV7-RS220	LC1F265	9M	12M

(1) 2xLC1-D for reversing

Plain Mounting Plates

Dimension of compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
3M	150	800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
4M	200	800	**NSYMP4M8**	
6M	300	600	**NSYMP6M6**	
6M	300	800	**NSYMP6M8**	
9M	450	600	**NSYMP9M6**	
9M	450	800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
12M	600	800	**NSYMP12M8**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

3-Component Motor Starter

Direct on Line and Reversing GV2 and GV3

Ue	IP	Ambient temperature
415 V	≤ IP54	35 °C

Selection of Recommended Combinations

Iq (kA)		Motor characteristics		Motor starter solution			Number of modules on mounting plate (1M = 50 mm)	
Without limiter	With LA9LB920	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor (1)	Thermal relay	DOL	Reversing
85	-	0.18	0.6	GV2-L04	LC1D09	LRD04	3M	3M
85	-	0.25	0.9	GV2-L05	LC1D09	LRD05	3M	3M
85	-	0.37	1.1	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.55	1.5	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.75	1.8	GV2-L07	LC1D09	LRD07	3M	3M
85	-	1.1	2.6	GV2-L08	LC1D09	LRD08	3M	3M
85	-	1.5	3.4	GV2-L08	LC1D09	LRD08	3M	3M
85	-	2.2	4.8	GV2-L10	LC1D09	LRD10	3M	3M
85	-	3	6.5	GV2-L14	LC1D09	LRD12	3M	3M
85	-	4	8.2	GV2-L14	LC1D18	LRD14	3M	3M
50	85	5.5	11	GV2-L16	LC1D25	LRD16	3M	3M
50	85	7.5	14	GV2-L20	LC1D25	LRD21	3M	3M
50	85	10	19	GV2-L21	LC1D32	LRD22	3M	3M
50	85	11	21	GV2-L22	LC1D32	LRD22	3M	3M
50	85	13	24	GV2-L32	LC1D32	LRD32	3M	3M
50	-	18.5	34	GV3-L40	LC1D50A	LRD340	3M	4M
50	-	22	40	GV3-L50	LC1D50A	LRD350	3M	4M
50	-	26	49	GV3-L65	LC1D65A	LRD365	3M	4M

(1) 2xLC1-D for reversing

Selection of the Mounting Plate

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
3M	150	800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
4M	200	800	**NSYMP4M8**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables of Functional Units

3-Component Motor Starter

Direct on Line and Reversing, NS80H and NSX

Ue	IP	Ambient temperature
415 V	≤ IP54	35 °C

Selection of Recommended Combinations

Iq (kA)	Motor characteristics		Motor starter solution			Number of modules on mounting plate (1M = 50 mm)	
	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor (1)	Thermal relay	DOL	Reversing
70	18.5	34	NS80H-MA	LC1D50	LRD3355	3M	6M
70	22	40	NS80H-MA	LC1D50	LRD3357	3M	6M
70	30	55	NS80H-MA	LC1D65	LRD3359	3M	6M
70	37	66	NS80H-MA	LC1D80	LRD3363	3M	6M
NSX...F = 36 kA NSX...N = 50 kA NSX...H = 70 kA NSX...S = 85 kA NSX400L = 150 kA NSX630L = 150 kA	18.5	34	NSX100 MA	LC1D80	LRD3355	3M	6M
	22	40	NSX100 MA	LC1D80	LRD3357	3M	6M
	30	55	NSX100 MA	LC1D80	LRD3359	3M	6M
	37	64	NSX100 MA	LC1D80	LRD3363	3M	6M
	45	80	NSX100 MA	LC1D115	LR9D5367	6M	9M
	55	100	NSX160 MA	LC1D150	LR9D5369	6M	9M
	75	135	NSX160 MA	LC1F185	LR9F5369	9M	12M
	90	160	NSX250 MA	LC1F225	LR9F5371	9M	12M
	100	187	NSX250 MA	LC1F265	LR9F5371	9M	12M
	132	230	NSX400 1.3-M	LC1F330	LR9F7375	12M	16M
	160	270	NSX400 1.3-M	LC1F330	LR9F7375	12M	16M
	200	361	NSX630 1.3-M	LC1F500	LR9F7379	16M	16M
	220	380	NSX630 1.3-M	LC1F500	LR9F7379	16M	16M
	250	430	NSX630 1.3-M	LC1F500	LR9F7379	16M	16M

(1) 2xLC1-D for reversing

Selection of the Mounting Plate

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
3M	150	800	**NSYMP3M8**	
6M	300	600	**NSYMP6M6**	
6M	300	800	**NSYMP6M8**	
9M	450	600	**NSYMP9M6**	
9M	450	800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
12M	600	800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
16M	800	800	**NSYMP16M8**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

3-Component Motor Starter

Star-Delta, GV2, GV3 and GV7

Ue	IP	Ambient temperature
415 V	≤ IP54	35 °C

Selection of Recommended Combinations

Iq (kA)		Motor characteristics		Motor starter solution		Number of modules on mounting plate (1M = 50 mm)
Without limiter	With GV1L3	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor	Star-delta
85	-	0,37	1,1	GV2-P06	3xLC1D09	4M
85	-	0,55	1,5	GV2-P06	3xLC1D09	4M
85	-	0,75	1,8	GV2-P07	3xLC1D09	4M
85	-	1,1	2,6	GV2-P08	3xLC1D09	4M
85	-	1,5	3,4	GV2-P08	3xLC1D09	3M
85	-	2,2	4,8	GV2-P10	3xLC1D18	4M
85	-	3	6,5	GV2-P14	3xLC1D18	3M
85	-	4	8,2	GV2-P14	3xLC1D18	4M
50	85	5,5	11	GV2-P16	3xLC1D25	4M
50	85	7,5	14	GV2-P20	3xLC1D25	4M
50	85	10	19	GV2-P21	3xLC1D32	5M
50	85	11	21	GV2-P22	3xLC1D32	4M
35	85	15	28	GV2-P32	3xLC1D32	4M
50	-	18,5	34	GV3-P40	3xLC1D50A	5M
50	-	22	40	GV3-P50	3xLC1D50A	5M
50	-	30	55	GV3-P65	3xLC1D65A	5M
70	-	15	28	GV7-RS40	3xLC1D80	9M
70	-	18,5	34	GV7-RS40	3xLC1D50	9M
70	-	22	40	GV7-RS50	3xLC1D80	9M
70	-	30	55	GV7-RS80	3xLC1D80	9M
70	-	45	80	GV7-RS100	3xLC1D115	12M
70	-	55	100	GV7-RS150	3xLC1D150	12M
70	-	75	135	GV7-RS150	3xLC1F185	16M
70	-	90	160	GV7-RS220	3xLC1F225	16M
70	-	110	200	GV7-RS220	3xLC1F265	16M

Selection of the Mounting Plate

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
3M	150	800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
4M	200	800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
5M	250	800	**NSYMP5M8**	
9M	450	600	**NSYMP9M6**	
9M	450	800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
12M	600	800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
16M	800	800	**NSYMP16M8**	

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PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables of Functional Units

3-Component Motor Starter

Star-Delta, GV2 and GV3

Ue	IP	Ambient temperature
415 V	≤ IP54	35 °C

Selection of Recommended Combinations

Iq (kA)		Motor characteristics		Motor starter solution			Number of modules on mounting plate (1M = 50 mm)
Without limiter	With LA9LB920	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor	Thermal relay	Star-delta
85	-	0,37	1,1	GV2-L06	3xLC1D09	LRD06	4M
85	-	0,55	1,5	GV2-L06	3xLC1D09	LRD06	4M
85	-	0,75	1,8	GV2-L07	3xLC1D09	LRD07	4M
85	-	1,1	2,6	GV2-L08	3xLC1D09	LRD08	4M
85	-	1,5	3,4	GV2-L08	3xLC1D09	LRD08	4M
85	-	2,2	4,8	GV2-L10	3xLC1D18	LRD10	4M
85	-	3	6,5	GV2-L14	3xLC1D18	LRD12	4M
85	-	4	8,2	GV2-L14	3xLC1D18	LRD14	4M
50	85	5,5	11	GV2-L16	3xLC1D25	LRD16	4M
50	85	7,5	14	GV2-L20	3xLC1D25	LRD21	4M
50	85	10	19	GV2-L21	3xLC1D32	LRD22	4M
50	85	11	21	GV2-L22	3xLC1D32	LRD22	4M
35	85	15	24	GV2-L32	3xLC1D32	LRD32	4M
50	-	18,5	34	GV3-L40	3xLC1D50A	LRD340	5M
50	-	22	40	GV3-L50	3xLC1D50A	LRD350	5M
50	-	30	49	GV3-L65	3xLC1D65A	LRD365	5M

Selection of the Mounting Plate

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
4M	200	600	**NSYMP4M6**	**NSYMPFIX**
4M	200	800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
5M	250	800	**NSYMP5M8**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

3-Component Motor Starter

Star-Delta, NS80H and NSX

Ue	IP	Ambient temperature
415 V	≤ IP54	35 °C

Selection of Recommended Combinations

Iq (kA)	Motor characteristics		Motor starter solution			Number of modules on mounting plate (1M = 50 mm)
	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor	Thermal relay	Star-delta
70	18.5	34	NS80H-MA	3xLC1D50	LRD3355	9M
70	22	40	NS80H-MA	3xLC1D50	LRD3357	9M
70	30	55	NS80H-MA	3xLC1D65	LRD3359	9M
70	37	66	NS80H-MA	3xLC1D80	LRD3363	9M
NSX...F = 36 kA NSX...N = 50 kA NSX...H = 70 kA NSX...S = 85 kA NSX400L = 150 kA NSX630L = 150 kA	18.5	34	NSX100 MA	3xLC1D80	LRD3355	9M
	22	40	NSX100 MA	3xLC1D80	LRD3357	9M
	30	55	NSX100 MA	3xLC1D80	LRD3359	9M
	37	64	NSX100 MA	3xLC1D80	LRD3363	9M
	45	80	NSX100 MA	3xLC1D115	LR9D5367	12M
	55	100	NSX160 MA	3xLC1D150	LR9D5369	12M
	75	135	NSX160 MA	3xLC1F185	LR9F5369	16M
	90	160	NSX250 MA	3xLC1F225	LR9F5371	16M
	110	187	NSX250 MA	3xLC1F265	LR9F5371	16M
	132	230	NSX400 1.3-M	3xLC1F330	LR9F7375	20M
	160	270	NSX400 1.3-M	3xLC1F330	LR9F7375	20M
	200	361	NSX630 1.3-M	3xLC1F500	LR9F7379	24M
	220	380	NSX630 1.3-M	3xLC1F500	LR9F7379	24M
	250	430	NSX630 1.3-M	3xLC1F500	LR9F7379	24M

Selection of the Mounting Plate

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
9M	450	600	**NSYMP9M6**	**NSYMPFIX**
9M	450	800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
12M	600	800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
16M	800	800	**NSYMP16M8**	
20M	1000	600	**NSYMP20M6**	
20M	1000	800	**NSYMP20M8**	
24M	1200	600	**NSYMP24M6**	
24M	1200	800	**NSYMP24M8**	

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PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection of Busbar

Linergy Distribution Systems

Linergy Also Offers the Most Advanced Busbar Solutions While Remaining Simple



Linergy LGYE / LGY /BS

Power busbars

- Solutions available up to 2500 A for PanelSeT SFN equipped for Motor Control Centers and up to 4 000 A for PrismaSeT HD.
- Connection everywhere without drilling (with LGY and LGYE profile).

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Lateral Linergy Busbars up to 1600 A

Busbar Calculation

The following table indicates:

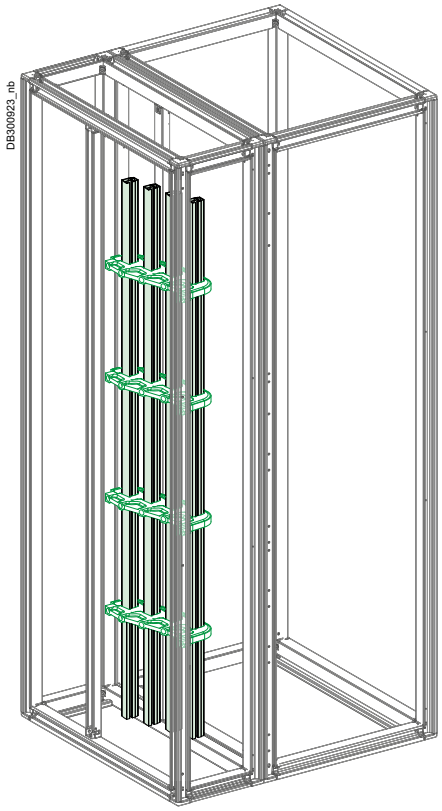
- The catalog numbers of the bars to be used, depending on the permissible current level in the busbars,
- The number of supports required, depending on the rated short-time withstand current (I_{cw} in kA rms / 1 second).

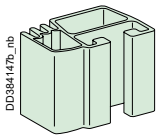
Linergy busbars	Permissible current at 35 °C for switchboard		Number of supports I_{cw} (kA effrms / 1 s)								References
	IP ≤ 31	IP > 31	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85	
Linergy 630	680	590	3								**LVS04502**
Linergy 800	840	760	3	3							**LVS04503**
Linergy 1000	1040	950	3	3	3						**LVS04504**
Linergy 1250	1290	1170	3	3	3	4	5				**LVS04505**
Linergy 1600	1650	1480	3	3	3	4	5	5	7	8	**LVS04506**

Note: The permissible current values for the busbars are given for an ambient temperature of 35 °C around the switchboard. The bottom support also maintains the bars in position. Each catalog number represents one bar.

Busbar Selection

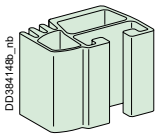
Linergy busbars, L = 1670 mm
Catalogue number selection: See the table below.
Each bar is supplied with a stop for the bottom support.





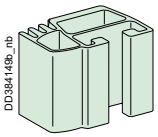


Bar 630 A.
LVS04502



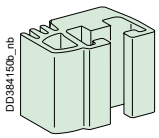


Bar 800 A.
LVS04503



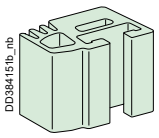


Bar 1000 A.
LVS04504





Bar 1250 A.
LVS04505





Bar 1600 A.
LVS04506

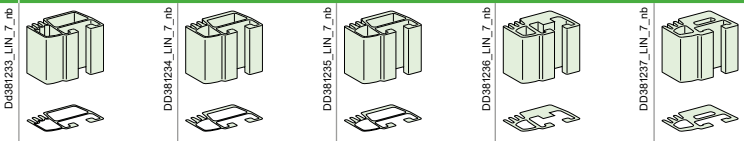
Busbars up to 1600 A.
The bottom support is used for wedging busbars in position.

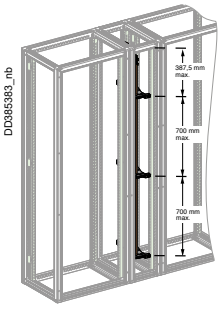
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PanelSeT SFN: Compartmentalized Enclosures for MCC

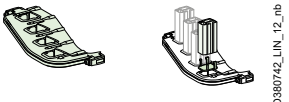
Selection Tables of Busbar

Linergy LGY - Lateral Profiles up to 1600 A

In PanelSeT SFN duct		W300				
Linergy profile, 1670 mm length						
		630 A	800 A	1000 A	1250 A	1600 A
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ⩽ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
References		LVS04502	LVS04503	LVS04504	LVS04505	LVS04506



The bottom wedge support is used to place the busbar and help ensure it is in the correct position.
It is count as a busbar support (included in the number of supports).

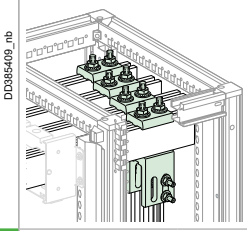


Fixed support **LVS04651**

Number depending on I_{cw} (kA rms/1 s)						
	⩽ 25	3				
	⩽ 30	-	3			
	⩽ 40	-		3		
	⩽ 50	-			4	
	⩽60	-			5	
	⩽ 65	-				5
	⩽ 75	-				7
Only for enclosures with a depth ⩾ 500 mm	⩽ 85	-				8

References	
	LVS04651 (set of 2 upright adapters **NSYSFPAED** and set of 2 40 mm universal cross-rail **NSYSUCR40200** for installation in PanelSeT SFN busbar chamber)

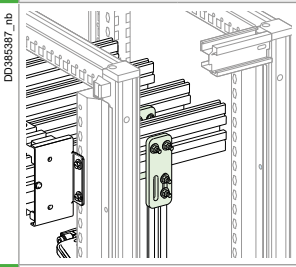
Connections to the Linergy BS horizontal busbar



Note:
Supplied with mounting hardware.
Reference includes 1 connection only.
Order 1 connection per phase.

References according to horizontal busbar size			
	5 mm thick	LVS04634	LVS04635
	10 mm thick, width ⩽ 80 mm	LVS04636	

Connections to the Linergy LGYE horizontal busbar



Note:
Supplied with mounting hardware.
Reference includes 1 connection only.
Order 1 connection per phase.

References (vertical connection)	LVS04602
References (vertical shifted connection)	LVS04603

NOTICE

FITTING OF END STOP

An end stop must be fitted on the bottom support **LVS01109** (sold in lots of 12).

Failure to follow these instructions can result in equipment damage.

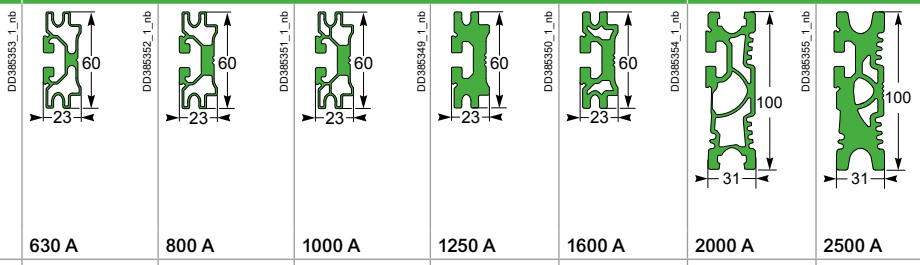
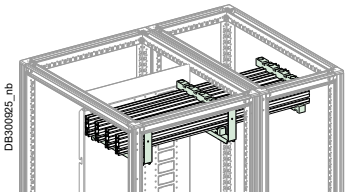
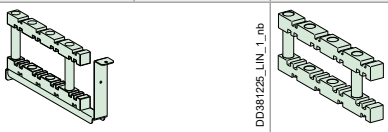
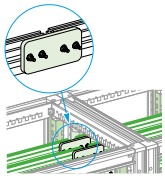
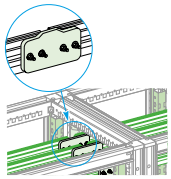
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables of Busbar

Linergy LGYE - Horizontal Profiles up to 2500 A

Note:
For accessories, see page 260.

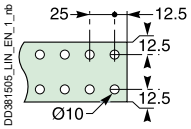
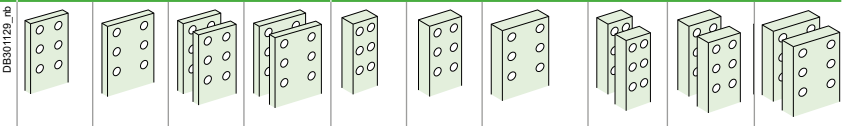
Installation in PanelSeT SFN compartmentalized			Up to 1600 A					Up to 2500 A	
Linergy profile, 2000 mm length									
			630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**
Permissible current for an ambient temp. of 35 °C around the switchboard			530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A
Number of profiles per phase			1						
Total number of vertical modules (50 mm)			3					3	
References			**LVS04560**	**LVS04561**	**LVS04562**	**LVS04563**	**LVS04564**	**LVS04565**	**LVS04566**
Busbar supports									
					Fixed support				
					Free support				
			2 fixed supports for PanelSeT SFN wide enclosure are compulsory according compartment depth (400 or 500 mm). 1 fixed support for PanelSeT SFN 300/400 wide chamber are compulsory. Fixed directly on framework. If more supports are needed, add free supports.						
In a PanelSeT SFN W600/800 Busbar supports 75 mm distance between bars	**Number of supports depending on I_{cw} (kA rms/1 s)**	≤ 15	2						
		≤ 25	2						
		≤ 30	2						
		≤ 40	-		2				
		≤ 50	-			2			
		≤ 60	-			2+1		2	
		≤ 65	-				2+1		
		≤ 75	-				2+1		
		≤ 85	-				2+1		
References Fixed support		D400	**NSYMBHS4**						
References Fixed support		D500	**NSYMBHS5**						
References Free support			**NSYBSA**						
In busbar chamber SFN: W300/400 Busbar supports 75 mm distance between bars	**Number of supports depending on I_{cw} (kA rms/1 s)**	≤ 15	1						
		≤ 25	1						
		≤ 30	1						
		≤ 40	-		1				
		≤ 50	-			1			
		≤ 60	-			1			
		≤ 65	-				1 + 1		
		≤ 75	-				1 + 1		
		≤ 85	-				1 + 1		
References Fixed support		D600	**NSYBHS600**					**NSYBHS600**	
References Fixed support		D800	**NSYBHS800**					**NSYBHS800**	
References Free support			**NSYBSA**					**NSYBSA**	
Joints			Up to 1600 A					Up to 2500 A	
			630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
									
			LVS04620					**LVS04621**	
References (3P)			**3x LVS04620**					**3x LVS04621**	
References (4P)			**4x LVS04620**					**4x LVS04621**	

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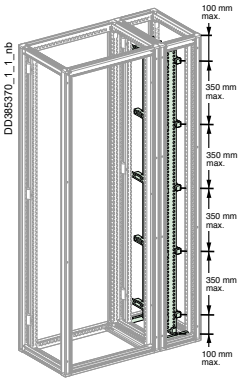
PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables of Busbar

Linergy BS - Lateral Flat Busbars up to 2500 A

In PanelSeT SFN busbar chamber		W300 D500/600/800, up to 1600 A				W300 D500/600/800, up to 2500 A					
Pre-slotted copper, 1675 mm length 											
Permissible current for an ambient temp. of 35 °C around the switchboard	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2		1			2		
References		**LVS04516**	**LVS04518**	**LVS04516**	**LVS04518**	**LVS04525**	**LVS04526**	**LVS04528**	**LVS04525**	**LVS04526**	**LVS04528**

Busbar supports



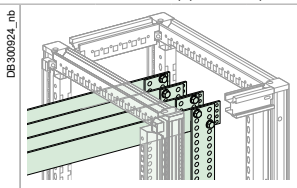
3 fixed supports are compulsory to hold the busbar in position.
If more than 3 supports are needed, use free supports (in addition).
The bottom wedge support is used to place the busbar in the correct position.
It does not count as a busbar support.

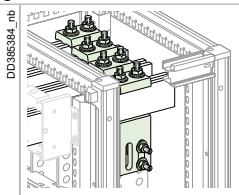
Number of supports depending on I_{cw} (kA rms/1 s)											
	≤ 15	3				3					
	≤ 25	3+2			3	3					
	≤ 30	3+2				3+2					3
	≤ 40	3+4		3+2		3+2					
	≤ 50		3+4			3+2					
	≤ 60					3+4					3+2
	≤ 65					3+4					3+2
	≤ 75						3+6		3+4		
	≤ 85									3+4	

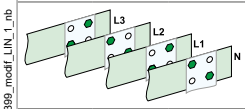
References* PanelSeT SFN busbar chamber 75 mm distance between bars		
	W300, D600	**NSYBVS600** (fixed) + **NSYBSA** (free) + **NSYAS600** (end stop support)
	W300, D800	**NSYBVS800** (fixed) + **NSYBSA** (free) + **NSYAS800** (end stop support)

* References of supports depending on distance between bars and busbar chamber depth

Connections to the Linergy BS horizontal busbar





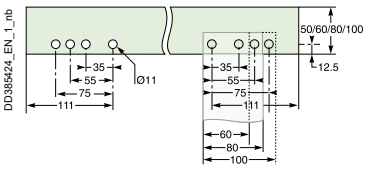


References **LVS04636**, **LVS04637** are supplied individually: 1 connection per phase.
Reference **LVS04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.

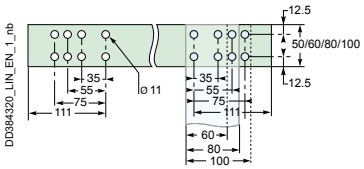
	1 vertical bar per phase		2 vertical bars per phase		1 vertical bar per phase			2 vertical bars per phase		
	60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10
References* ≤ 80 mm	**LVS04645**				**LVS04636**		**LVS04637**	**LVS04637**		

* References of the connection piece depending on horizontal busbar size

(1) Drill hole dimensions for 5 mm thick horizontal busbars.



Drill hole dimensions for 10 mm thick horizontal busbars.



⚠⚠ WARNING

RISK OF ELECTRICAL SHOCK AND ARC FLASH

For a busbar with 75 mm distance between bars, the bars must be completely covered.

Staggered assembly points between one bar and the next, to maintain the necessary clearance distances (1).

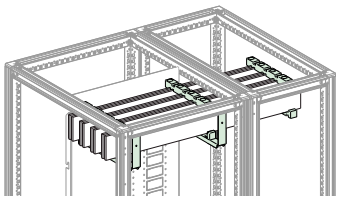
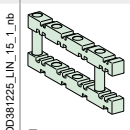
Failure to follow these instructions could result in death or serious injury.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

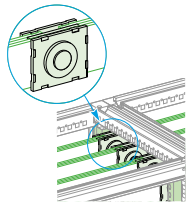
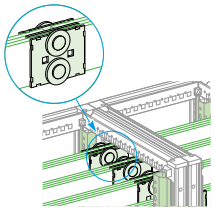
PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables of Busbar

Linergy BS - Horizontal Flat Busbars up to 2500 A

Installation in PanelSeT SFN compartmentalized			Up to 1600 A				Up to 2500 A			
Copper bar, 2000 mm length										
Permissible current for an ambient temp. of 35 °C around the switchboard			750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)			60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase			1	1	2	2	1	2	2	2
Total number of vertical modules (50 mm)			3							
References			**LVS04536**	**LVS04538**	**LVS04536**	**LVS04538**	**LVS04548**	**LVS04545**	**LVS04546**	**LVS04548**
Busbar supports			 Fixed support  Free support							
			2 fixed supports for PanelSeT SFN wide enclosure are compulsory according compartment depth (400 or 500 mm). 1 fixed support for PanelSeT SFN 300/400 wide chamber is compulsory. Fixed directly on framework. If more supports are needed, add free supports.							
In a PanelSeT SFN W600/800 with 75 mm distance between bars	**Number of supports depending on I_{cw} (kA rms/1 s)**	≤ 15	2							
		≤ 25	2+1	2						
		≤ 30	2+1		2					
		≤ 40	2+1				2			
		≤ 50	-	2+1					2	
		≤ 60	-				2+1			
		≤ 65	-				2+1			
		≤ 75	-				2+2	2+1		
		≤ 85	-				-		2+1	
References Fixed support			**NSYMBHS4** (D400) or **NSYMBHS5** (D500)							
References Free support			**NSYBSA**							
In busbar chamber SFN: W300/400 with 75 mm distance between bars	**Number depending on I_{cw} (kA rms/1 s)**	≤ 30	1							
		≤ 50	1+1				1			
		≤ 85	-				2			
References* Fixed support			**NSYBHS600** (D600) or **NSYBHS800** (D800)				**NSYBHS600** (D600) or **NSYBHS800** (D800)			
References* Free support			**NSYBSA**				**NSYBSA**			

* References depending on depth

Joints, Installation in PanelSeT SFN		Up to 1600 A				Up to 2500 A			
		1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase		
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Sliding joints with self-breaking lock nut		 **LVS04640**			 **LVS04641**				
References		**LVS04640**	**LVS04641**	**LVS04640**	**LVS04641**	**LVS04641**	**LVS04640**	**LVS04640**	**LVS04641**

⚠⚠ WARNING

RISK OF ELECTRICAL SHOCK OR ARC FLASH

When installed at the bottom of an enclosure, the busbar must be partitioned.

Failure to follow these instructions could result in death or serious injury.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

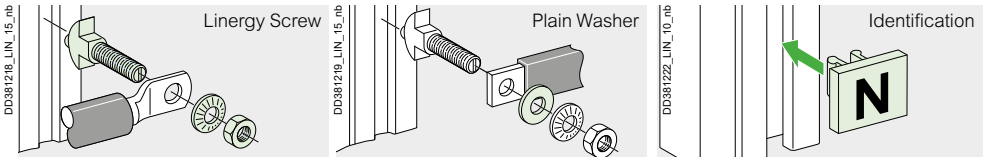
PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables of Busbar

Linergy LGYE - Accessories

Linergy Screw

- Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, grade 8.8. The screws slide into the profile and are then locked in the desired position.

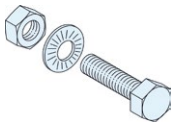


Characteristics		AD	References
Steel plain washers	M8 sold in lots of 20	20 mm	**LVS04772**
	M8 sold in lots of 20	24 mm	**LVS04773**
	M8 sold in lots of 20	28 mm	**LVS04774**
Brass plain washers	M8 sold in lots of 20 for connection of ≤ 25 mm² lugs to Linergy	20 mm	LVS04775
Identification	12 clip-on supports + N, L1, L2, L3, PE, PEN labels		**LVS04794**
	Linergy LGYE busbar screw plate kit after sales service		**LVS01130**

4

M8 Screws

- Set of 20 screws + 20 nuts + 40 contact washers.


LVS04782

Characteristics	References
Linergy BS, 20 screws grade 8.8, M8 x 20	**LVS04782**
Linergy BS, 20 screws grade 8.8, M8 x 25	**LVS04783**
Linergy BS, 20 screws grade 8.8, M8 x 30	**LVS04784**
Linergy BS, 20 screws grade 8.8, M8 x 35	**LVS04785**
Linergy BS, 20 screws grade 8.8, M8 x 40	**LVS04786**
Linergy BS, 20 screws grade 8.8, M8 x 45	**LVS04787**
Linergy BS, 20 screws grade 8.8, M8 x 50	**LVS04788**

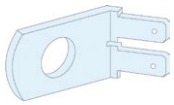
Torque Nuts

- Can be used to obtain the correct tightening torque (28 Nm) recommended by the manufacturer without without using a torque wrench. Torque nuts may be used for all electrical connections.


LVS04759

Characteristics	References
20 M8 torque nuts	**LVS04759**

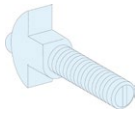
Voltage Tap-Offs


LVS04229

- For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (ref. **LVS04775**) between the busbar and the lug.

Characteristics	References
20 M10 voltage tap-offs for two 6.35 mm tab connectors	**LVS04229**

Connections on Linergy LGYE and LGY


LVS04766


LVS04768


LVS04769

Characteristics	InA	bar	Use	References
Use the 25 mm Linergy screw	0 A to 630 A	Cable Insulated flexible bar	Recommended	**LVS04766**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	0 A to 630 A	Cable Insulated flexible bar	Possible	**LVS04767**
Use the 25 mm Linergy screw	800 A to 1250 A	5 mm thick bar	Recommended	**LVS04766**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	800 A to 1250 A	5 mm thick bar	Possible	**LVS04767**
Use the flat plate screw with 2 studs	800 A to 1250 A	5 mm thick bar	Possible	**LVS04768**
Use the flat plate screw with 2 studs	1600 A to 2500 A	5 or 10 mm thick bar	Recommended	**LVS04768**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	1600 A to 2500 A	5 or 10 mm thick bar	Possible	**LVS04767**
Use the flat plate screw with 3 studs	3200 A to 4000 A	10 mm thick bar	Recommended	**LVS04769**

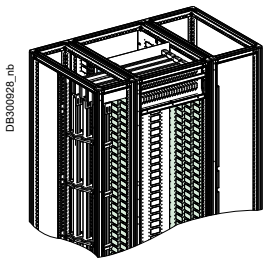
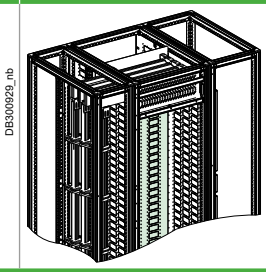
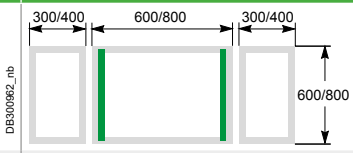
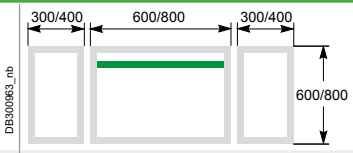
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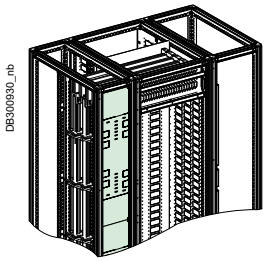
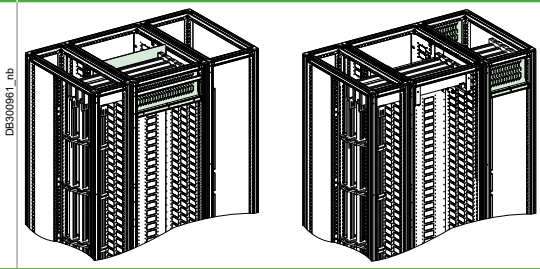
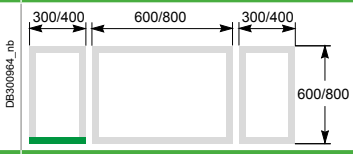
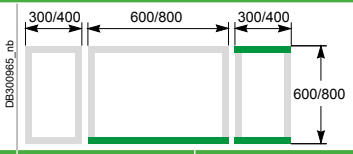
PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables for Enclosure Partitioning

Partitioning Form 2

Separation of busbars from the functional units:
- Protection against contact with live parts upstream of the outgoing circuits,
- Protection against penetration by foreign solid bodies.

	Lateral partitioning	Rear partitioning
		
Diagrams		
		
Characteristics	• Set of 2 vertical metal separation for better insulation of the sides of the compartment (IP2x). • Top and bottom ends have knock-outs for installation of horizontal busbars and pre-cuts of 40 x 70 mm for cable glands using grommets ref. **LVS01215** when Form 4b is required. • Partition extension required for D800 mm. • Direct fixing on structure of enclosure.	• Vertical metal separation for better insulation of the back of the compartment (IP2x). • Pre-cuts of 40 x 70 mm for cable glands using grommets ref. **LVS01215** when Form 4b is required on back installation. • Direct fixing on structure of enclosure.
References	D600: **NSYMSC206** D800: **NSYMSC206** + **NSYMSC202** + **NSYSUCR40200**	W600: **NSYMBC206** W800: **NSYMBC208**

	Front and Rear busbar barrier	Horizontal busbar barriers			
					
Diagrams					
					
		W600	**W800**	**W300**	**W400**
Characteristics	• Front protection is realized by the combination of the door W300 and this barrier. Metal barrier, composed of 2 parts H850, pre-cut at both ends • Rear protection is realized by the combination of the back panel of the enclosure.	• Horizontal protection by the combination of slotted front barrier and horizontal partition for efficient natural convection in the switchboard. • The set can be used to partition horizontal busbar at the top or bottom of the enclosure. • The space required for the busbars is not increased.		• Set of 2 slotted barriers (front and rear), plus horizontal panel to be used when busbars cross the cable chamber.	
References	W300: **LVS06540** W400: **NSYVPFN2B4**	D600 (1): **NSYHPF2B3M64** D800 (1): **NSYHPF2B3M65**	D600 (1): **NSYHPF2B3M84** D800 (1): **NSYHPF2B3M85**	D600: **LVS06561** D800: **LVS06563**	D600: **NSYHPF2B3M4** D800: **NSYHPF2B3M4**

(1) For an enclosure with a depth of 600 mm the compartment depth is 400 mm. For an enclosure with a depth of 800 mm the compartment depth is 500 mm

⚠⚠ WARNING

RISK OF ELECTRICAL SHOCK OR ARC FLASH

When the busbars are at the bottom of the enclosure, gland plates are mandatory.

Failure to follow these instructions could result in death or serious injury.

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PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables for Enclosure Partitioning

External claddings

PB500639_17_nb



PB500638_30_nb



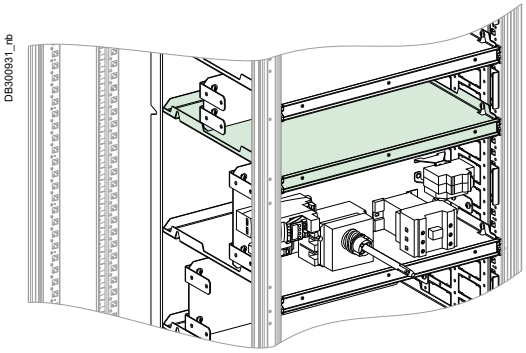
Intermediate Crossbar	
Characteristics	• It is mounted between partial doors, for better sealing. • It is included inside of Horizontal busbar barriers and form 3 partitioning • To be used in the absence of the partition tray. • Direct fixing to the structure. • Available in 2 widths (mm).
Supply	• 2 crossbars with fixing elements
References	W600: **NSYMICN6** W800: **NSYMICN8**

Partitioning Form 3

Separation of busbars from the functional units and separation of all functional units from one another.
Separation of the terminals for external conductors from the functional units, but not from each other.
- Enhanced protection against contact with live parts
- Reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

Form 3 partitioning

DB300931_nb



Note:
Supplied with 2 horizontal partitioning.

Horizontal partitioning	W600	W800
Characteristics	• A horizontal metal partition to separate functional units from one another and insulate the compartments (IP2x). • It is fixed to the front uprights of the enclosure and the side partitions. • Quick-fixing system with intermediate crossbar to improve the degree of protection of the partial doors. • Order by multiples of 2 (2, 4, 6…).	
References	D600 (1): **NSYMTRN64** D800 (1): **NSYMTRN65**	D600 (1): **NSYMTRN84** D800 (1): **NSYMTRN85**

(1) For an enclosure with a depth of 600 mm the compartment depth is 400 mm. For an enclosure with a depth of 800 mm the compartment depth is 500 mm.

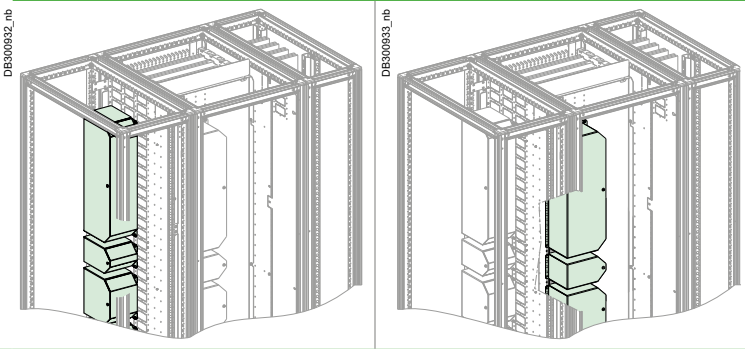
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Partitioning Form 4

Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit:

- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- Form 4a: Terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed spaces or compartments.

Form 4b boxes



Characteristics	• Metal plain box composed by 2 parts that can be easily installed for side or rear connection to separate the terminals for external conductors of the functional unit. • Quick-fixing system on the side or on the back partition. • Available in 6 heights:					
References	3M: **NSYBF4B3M**	4M: **NSYBF4B4M**	5M: **NSYBF4B5M**	6M: **NSYBF4B6M**	8M: **NSYBF4B8M**	9M: **NSYBF4B9M**

Rail Support Bracket

SM **SFN** **SD** **SFX**

Telequick

- Bracket for fixing rails at an angle of 45°.
- Material: Zinc-coated steel
- PanelSeT SFN: Mounted on the structure and/or mounting plates
- PanelSeT SM: Mounted on the bottom mounting rail and/ or mounting plates



Characteristics	References
Rail support bracket	**NSYFB45**

Grommets

Grommets



	Grommets
Characteristics	5 square grommets 70 x 40
References	**LVS01215**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables for Enclosure Partitioning

Selection of PanelSeT SFN MCC Enclosures

Common Characteristics

- PanelSeT SFN framework with compartment system that can be combined side-by-side with busbar and cable chambers.
- Receive the cover panels and partial doors IP54.
- Material: Steel.
- Finish: Painted with epoxy polyester resin.
- Color: RAL 7035 gray.
- Available as kit.

Kit supply







Compartmentalised enclosure	W600	W800
Characteristics	• Structure: Top and bottom frame and vertical uprights with a height of 2000 mm. • Useful height for doors with a height of 1800 mm/36M if top and bottom fix panels are installed for modularity (needed for installation of partial doors). • Equipped with removable roof, external fixing rear panel and top and bottom fixed panels (H100 mm) to allow modularity of partial doors. • 4 dimensions available.	
References	-	-
Vertical uprights, height 2000 mm	**NSYSFNV20**	**NSYSFNV20**
Top and Bottom frame with roof	D600: **NSYSFNC66** D800: **NSYSFNC68**	D600: **NSYSFNC86** D800: **NSYSFNC88**
Rear panel	**NSYBPN206**	**NSYBPN208**
Fixed panels for modularity, height 100 mm/2M (intermediate crossbars included)	See table below	See table below

Front Fix panel for modularity



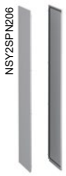
Frontal partial doors



Frontal transparent partial doors



Side panels



External claddings	W600	W800	W600	W800	W600	W800	D600	D800
Characteristics	• Top and bottom fix panel to obtain modularity required to install partial doors. • Supplied with a bottom trim. • If there is no horizontal partitioning on top or bottom, the intermediate crossbar has to be ordered separately, ref. NSYMICN6 (W600 mm) or NSYMICN8 (W800 mm). • Available in 2 heights(M) Heights according modularity (1M = 50 mm).		• Plain partial door with lock with 5-mm double-bar insert. • They are fixed to the uprights of the framework by means of hinges. • Drilling template for uprights ref. NSYMDT (Only 1 drilling template by order is needed). • Opening to right or left. • 1, 2 or 4 locking points depending on height. • Replaceable locking insert (see page 579). • Available in following heights (M) Heights according modularity (1M = 50 mm).		• Glazed (Securit glass) partial door with lock 5-mm double-bar insert. • They are fixed to the uprights of the framework by means of hinges. • Opening to right or left. • 1 or 2 locking points according different heights. • Available in following heights (mm). • Ingress protection rating: IP54 according to IEC 60529		• Set of 2 side panels fixed to the outside of the enclosure. • Captive screws pre-mounted on • The panels. • Available in 2 depths (mm).	
References	**2M: NSYMFP2M6** **5M: NSYMFP5M6**	**2M: NSYMFP2M8** **5M: NSYMFP5M8**	**3M: NSYMPD3M6** **4M: NSYMPD4M6** **5M: NSYMPD5M6** **6M: NSYMPD6M6** **8M: NSYMPD8M6** **9M: NSYMPD9M6** **12M: NSYMPD12M6** **16M: NSYMPD16M6** **18M: NSYMPD18M6** **20M: NSYMPD20M6** **24M: NSYMPD24M6**	**3M: NSYMPD3M8** **4M: NSYMPD4M8** **5M: NSYMPD5M8** **6M: NSYMPD6M8** **8M: NSYMPD8M8** **9M: NSYMPD9M8** **12M: NSYMPD12M8** **16M: NSYMPD16M8** **18M: NSYMPD18M8** **20M: NSYMPD20M8** **24M: NSYMPD24M8**	**8M: NSYMPD46T** **12M: NSYMPD66T** **16M: NSYMPD86T** **20M: NSYMPD106T**	**8M: NSYMPD48T** **12M: NSYMPD68T** **16M: NSYMPD88T** **20M: NSYMPD108T**	**NSY2SPN206**	**NSY2SPN208**

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PanelSeT SFN: Compartmentalized Enclosures for MCC

Selection Tables for Enclosure Partitioning

Selection of PanelSeT Enclosures

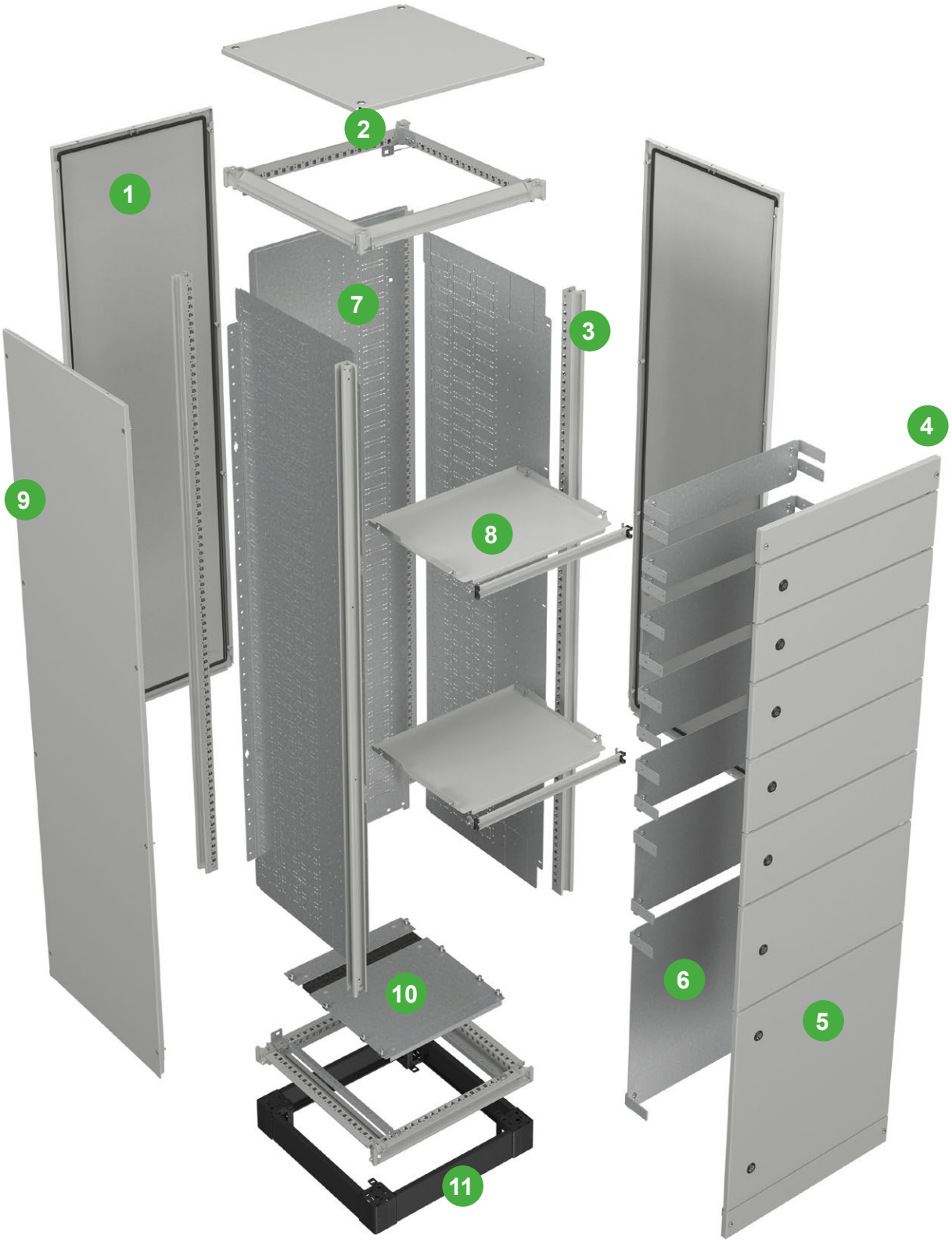
Selection of PanelSeT Enclosures for Motor Control Centers

	Assembled supply		Kit supply	
				
Busbar and cabling chambers	**W300**	**W400**	**W300**	**W400**
Characteristics	• Structure: Top and bottom frame and vertical uprights with a height of 2000 mm. • Equipped with removable roof, external fixing rear panel and front plain door with 4-point locking system with handle and DB 5 mm insert. • 4 dimensions available.			
References	D600: **NSYSFN20360** D800: **NSYSFN20380**	D600: **NSYSFN20460** D800: **NSYSFN20480**	-	-
Vertical uprights, height 2000 mm	-	-	**NSYSFNV20**	**NSYSFNV20**
Top and Bottom frame with roof	-	-	D600: **NSYSFNC36** D800: **NSYSFNC38**	D600: **NSYSFNC46** D800: **NSYSFNC48**
Rear panel	-	-	**NSYBPN203**	**NSYBPN204**
Front plain door	-	-	**NSYSFND203**	**NSYSFND204**

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PanelSeT SFN: Compartmentalized Enclosures for MCC

Accessories



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PanelSeT SFN: Compartmentalized Enclosures for MCC

Accessories

Mounting Accessories

1



Rear panel

See details p. 264

2



Top and bottom frame with roof

See details p. 264

3



Vertical upright

See details p. 265

MCC Accessories

4



Front fix panel for modularity

See details p. 264

5



Front partial doors

See details p. 264

6



Partial mounting plates and fixing kit

See details p. 247

7



Form 2b partitioning: lateral, rear

See details p. 261

8



Form 3b partitioning: horizontal, intermediate crossbar

See details p. 262

PanelSeT SFN Accessories

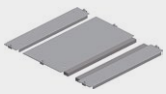
9



Side panels

See details p. 517

10



Cable gland plate: plain, 1 entry, 2 entries

See details p. 561

11



Plinth: front, side

See details p. 532

4

> For more information consult the Accessories chapter **page 262** and **472**

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Specific Applications

Human Machine Interface

Panel**SeT** SFN PC: Suitable Control PC Rack

PB503963



Panel**SeT** SD: Control Desk







Panel**SeT** S3CM: Control Enclosure with Suspension Rack



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PanelSeT SFN PC: Suitable Control PC Rack

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Dimensions	273
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PanelSeT SD: Control Desk

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PanelSeT S3CM: Control Enclosure with Suspension Rack

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PanelSeT SFN PC: Suitable Control PC Rack

Introduction





The PanelSeT SFN PC Rack is designed to shelter and control computer equipment in industrial environments. It proposes various functions and working heights for optimal comfort.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

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PanelSeT SFN PC: Suitable Control PC Rack

Introduction



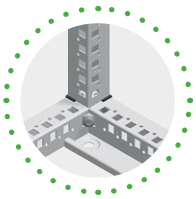
Convenience
- Anti-glare glazed door designed for viewing screens up to 17"
- Cable entry made easier by a two-piece cable-gland plate



Ergonomics
- Access to the various functions and working heights
- Partial doors delimit the access to each function with a 3-mm double-bar lock
- Display and CPU support
- Keyboard and mouse support



Protection
- Locking system in the rear door
- locks in the front partial doors



Robust
Unique bolted structure with high load-bearing capacity

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

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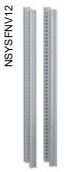
PanelSeT SFN PC: Suitable Control PC Rack

Characteristics

Blanking Plate



- Partial door for PC display, with Securit® anti-glare glass.
- Plain partial door for CPU (enclosures with height of 1800 mm).
- Hinged plain door for keyboard.
- Plain partial door for optional installation of A4 printer support.
- Partial front doors opening to the right.
- Plain rear door, reversible opening direction (right or left).
- Roof and side panels fixed from the outside.
- Cable-gland plate with 1 entry.
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Ingress protection rating: IP40 according to IEC 60529
- Mechanical protection rating: IK08 according to IEC 62262
- Certifications: UL (cULus). Rated 1, 12 according to UL50E













Dimensions (mm)			Number of compartments	Structure: Uprights	Structure: Frames + roof	Rear: Door	Sides: Panels	Internal: Tray	Internal: Cable gland plate 1-entry
H	W	D							
1600	600	600	3	**NSYSFNV16**	**NSYSFNC66**	**NSYSFND166**	**NSY2SPN166**	**NSYFXT6060**	**NSYEC661**
1600	600	800	3	**NSYSFNV16**	**NSYSFNC68**	**NSYSFND166**	**NSY2SPN168**	**NSYFXT8060**(1)	**NSYEC681**
1800	600	600	4	**NSYSFNV18**	**NSYSFNC66**	**NSYSFND186**	**NSY2SPN186**	**NSYFXT6060**	**NSYEC661**
1800	600	800	4	**NSYSFNV18**	**NSYSFNC68**	**NSYSFND186**	**NSY2SPN188**	**NSYFXT8060**(1)	**NSYEC681**

(1) The tray needs to be installed turned 90 degrees. This positioning differs from the standard orientation, as it places the cables at the side instead of the back.













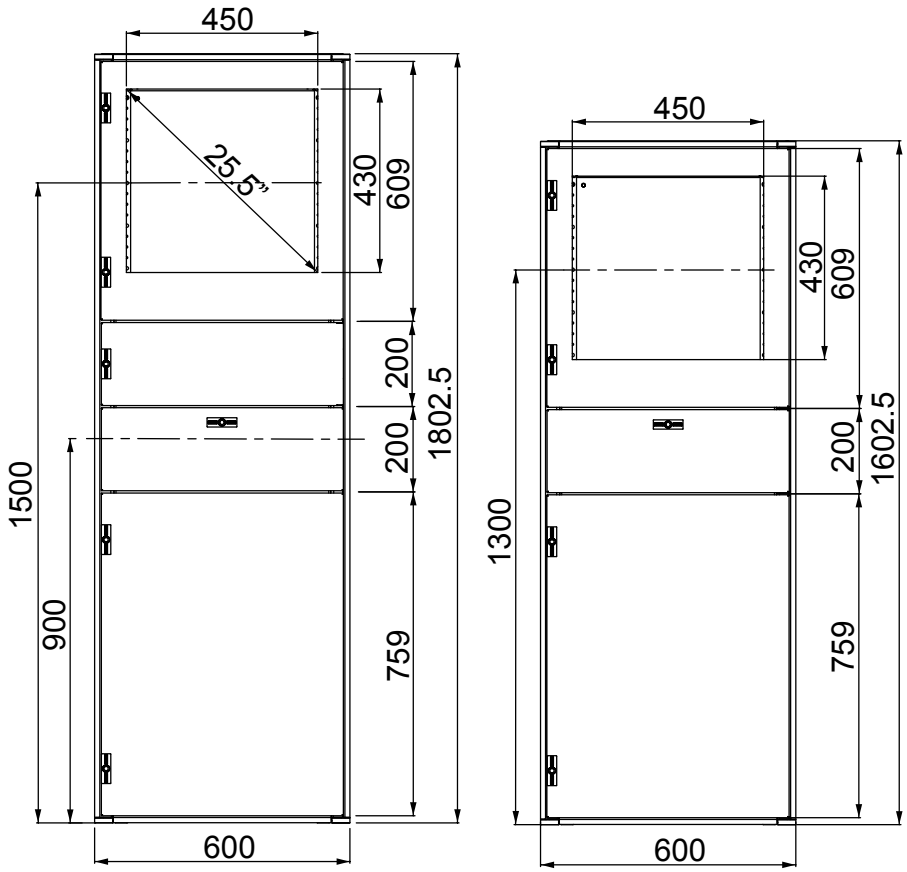
Dimensions (mm)			Number of compartments	Front partial doors: Top and bottom covers	Front partial doors: Display (top glazed H600)	Front partial doors: CPU (plain H200)	Front partial doors: Keyboard (door + housing)	Front partial doors: Bottom plain	Front partial doors: Intermediate crossbar
H	W	D							
1600	600	600	3	**NSYMFP2M6**	**NSYSFNPCPD600T**	-	**NSYSFNPCMK600**	**NSYSFNPCPD600**	2x **NSYMICN6**
1600	600	800	3	**NSYMFP2M6**	**NSYSFNPCPD600T**	-	**NSYSFNPCMK600**	**NSYSFNPCPD600**	2x **NSYMICN6**
1800	600	600	4	**NSYMFP2M6**	**NSYSFNPCPD600T**	**NSYMPD4M6**	**NSYSFNPCMK600**	**NSYSFNPCPD600**	3x **NSYMICN6**
1800	600	800	4	**NSYMFP2M6**	**NSYSFNPCPD600T**	**NSYMPD4M6**	**NSYSFNPCMK600**	**NSYSFNPCPD600**	3x **NSYMICN6**

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PanelSeT SFN PC: Suitable Control PC Rack

Dimensions

DB300242EN_60_nb



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PanelSeT SFN PC: Suitable Control PC Rack

Accessories



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Fixing and Composition Accessories

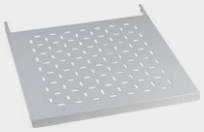
1



Plinths

See details p. 532

2



Fixed tray

See details p. 513

3

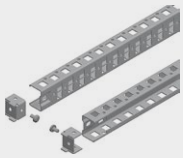


Handle for tray

See details p. 513

Other Accessories

4



Universal cross rail

See details p. 493

5



Telescopic rails

See details p. 513

> For more information consult the Accessories chapter **page 472**

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PanelSeT SD: Control Desk

Introduction



The range of PanelSeT SD control desks provides all features required of a workstation intended for industrial and infrastructure applications.
PanelSeT SD products offer two distinct solutions:
• The SD compact control desk,
• The SD control desk with console.

The range has protection ratings of IP55 and IK10 for enhanced protection of the installed devices.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.



Accessibility
- Front accessibility, designed for straightforward solutions
- Rear accessibility, enables the installation of two adjoining plates
- The control desk with console offers full accessibility



Ease of Mounting
- The option of connecting the modular control desk to the modular consoles offers multiple combinations
- The opening direction of the door can be changed quickly thanks to the included hinges



Ease of Use
- The console opens easily and Smoothly thanks to the installed pneumatic opening lid stays
- Cable entry is optimized because all the models of the range include a cable gland plate with two adjustable parts



Compatibility
The PanelSeT SD control desk is compatible with several of the accessories of the PanelSeT SFN and SM ranges

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

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PanelSeT SD: Control Desk

Characteristics

Compact Control Desk



Options:
It can also be equipped with a mounting plate, see page 285

Characteristics

- This range is available in 4 widths with fixed rear panel.
- Full accessibility is provided from the front (no central upright).
- Easy removable and reversible door opening to 120°.
- Locking by 3 mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 285).
- Desk lid equipped with a pneumatic opening stay.
- Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Cable gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18 mm earthing screw for equipotential connection between the door and the body.
- Material: Welded folded steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Thickness: 15/10e mm
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Number of doors	Width (mm)	Height (mm)	Depth (mm)	References
1	600	1000	469	**NSYSD6**
1	800	1000	469	**NSYSD8**
2	1000	1000	469	**NSYSD10**
2	1200	1000	469	**NSYSD12**

Compact Control Desk with Rear Panel



Options:
Modular consoles to be installed on top of compact control desk.
See details and combinations page 284. It can also be equipped with a mounting plate, see page 285.

Characteristics

- Removable rear panel. It enables the installation of two mounting plates back-to-back, allowing the installation of a large number of devices, while enabling full accessibility from the front and the rear.
- At the top, these control desks are equipped with cable entry cut-outs, that allows the installation of one or more modular consoles.
- Easy removable and reversible door, opening to 120°.
- Locking by 3 mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 285).
- Desk lid equipped with a pneumatic opening stay.
- Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.
- Top cable entry cut-outs covered by a entire blanking cover.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Cable gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18 mm earthing screw for equipotential connection between the door and the body.
- Material: Welded folded steel
- Finish: Structured finish, epoxy polyester powder paint
- Color: RAL 7035 gray
- Thickness: 15/10e mm
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Number of doors	Width (mm)	Height (mm)	Depth (mm)	References
1	600	1000	600	**NSYSD6R**
1	800	1000	600	**NSYSD8R**
2	1000	1000	600	**NSYSD10R**
2	1200	1000	600	**NSYSD12R**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SD: Control Desk

Characteristics

Options:
- Plinth see page 282.
- Mounting plate, see page 285.
- Locking system: Other inserts or cylinders, see page 285.

Control Desk with Console



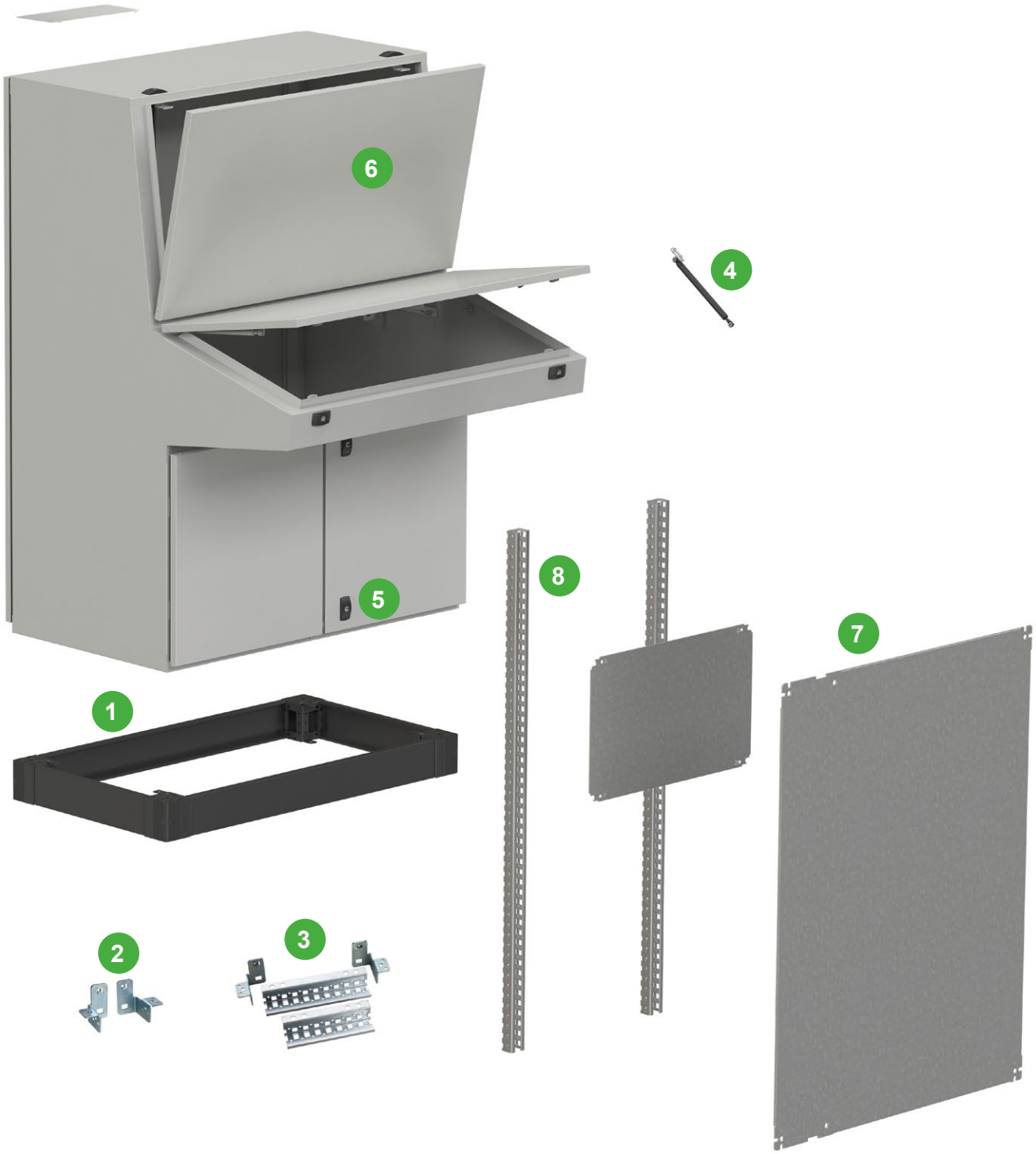
Characteristics	• Full accessibility is provided from the front and rear. • Easy removable and reversible front door, opening to 120°. • Locking by two-point locks with 3-mm double-bar insert. • Desk lid equipped with a pneumatic opening stay. Opens to 75°. • Perforated reinforcement rails with a pitch of 25 mm for quick installation of cables and cable ducts. • Locking by two-point locks with 3-mm double-bar insert. • Hinged console cover equipped with a pneumatic opening stay. • Opens to 75°. • Locking by two-point locks with 3-mm double-bar insert. • Easy removable and reversible rear door, opening to 120°. • Locking by three-point lock with flat escutcheon, 5-mm double-bar insert. • One entry cable gland plate, with polyurethane gasket. • Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth. • M8 x 18 mm earthing screw for equipotential connection between the door and the body. • Material: Welded folded steel • Finish: Structured finish, epoxy polyester powder • Color: RAL 7035 gray • Thickness: 15/10e mm • Ingress protection rating: IP55 according to IEC 60529 • Mechanical protection rating: IK10 according to IEC 62262

Nb of front doors	Nb of rear doors	Nb cable gland plates	Width (mm)	Height (mm)	Depth (mm)	References
1	1	1	800	1400	845	**NSYSDF88**
1	1	1	800	1400	1045	**NSYSDF810**
2	2	1	1000	1400	845	**NSYSDF108**
2	2	1	1000	1400	1045	**NSYSDF1010**
2	2	1	1200	1400	845	**NSYSDF128**
2	2	1	1200	1400	1045	**NSYSDF1210**
2	2	2	1600	1400	845	**NSYSDF168**
2	2	2	1600	1400	1045	**NSYSDF1610**

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PanelSeT SD: Control Desk

Accessories



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Fixing and Composition Accessories

1



Plinths

See details p. 282

2



Fixing brackets

See details p. 285

3



Adjustment rails

See details p. 285

Door Accessories

4



Opening stay

See details p. 284

5



Key locks and shape inserts

See details p. 285

Other Accessories

6



Modular consoles

See details p. 284

7



Mounting plates

See details p. 285

8



Technical uprights

See details p. 491

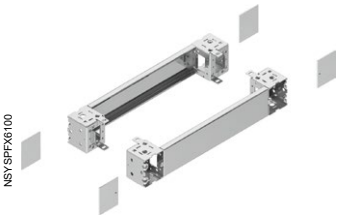
> For more information consult the Accessories section **page 282**

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PanelSeT SD: Control Desk

Accessories

For more information, see page 530.

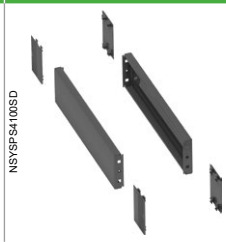
	Front and rear plinth	
	 NSYSPF6100	 NSYSPFX6100

Characteristics	NSYSPF6100	NSYSPFX6100
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	
Material	Folded sheet steel, corner with a thickness of 25/10e mm	304L stainless-steel
Finish	Painted with epoxy polyester resin	-
Color	RAL 7022 gray	-
Ingress protection rating	IP30	IP30
Mechanical protection rating	IK10	IK10
Supply	• Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements • Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements • The use of 304L stainless-steel plinths on an SD control desk requires an earthing cable (description page 589) to be ordered separately.	

Control desk references		Plinths references			
Compact control desks with fixed rear panel		100 mm	200 mm	100 mm	200 mm
	References	References	References	References	References
	NSYSD6	NSYSPF6100	NSYSPF6200	NSYSPFX6100	NSYSPFX6200
	NSYSD8	NSYSPF8100	NSYSPF8200	NSYSPFX8100	NSYSPFX8200
	NSYSD10	NSYSPF10100	NSYSPF10200	NSYSPFX10100	NSYSPFX10200
	NSYSD12	NSYSPF12100	NSYSPF12200	NSYSPFX12100	NSYSPFX12200
Compact control desks with removable rear panel Sheet steel		100 mm	200 mm	100 mm	200 mm
	NSYSD6R	NSYSPF6100	NSYSPF6200	NSYSPFX6100	NSYSPFX6200
	NSYSD8R	NSYSPF8100	NSYSPF8200	NSYSPFX8100	NSYSPFX8200
	NSYSD10R	NSYSPF10100	NSYSPF10200	NSYSPFX10100	NSYSPFX10200
	NSYSD12R	NSYSPF12100	NSYSPF12200	NSYSPFX12100	NSYSPFX12200
Control desk with console		100 mm	200 mm	100 mm	200 mm
	NSYSDF88	NSYSPF8100	NSYSPF8200	-	-
	NSYSDF108	NSYSPF10100	NSYSPF10200	-	-
	NSYSDF128	NSYSPF12100	NSYSPF12200	-	-
	NSYSDF168	NSYSPF16100	NSYSPF16200	-	-
	NSYSDF810	NSYSPF8100	NSYSPF8200	-	-
	NSYSDF1010	NSYSPF10100	NSYSPF10200	-	-
	NSYSDF1210	NSYSPF12100	NSYSPF12200	-	-
	NSYSDF1610	NSYSPF16100	NSYSPF16200	-	-

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Plinth side panels





	NSYSPS4100SD	NSYSPSX5100
	They are fixed to the corner of the plinth by 2 fixing screws.	
	Folded sheet steel	304L stainless-steel
	Painted with epoxy polyester resin	-
	RAL 7022 gray	-
	IP30	IP30
	IK10	IK10

- Height 100 mm: 2 side panels, 4 corner covers and fixing elements
- Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements
- The use of 304L stainless-steel plinths on an SD control desk requires an earthing cable (description page 589) to be ordered separately.

100 mm References	200 mm References	100 mm References	200 mm References
NSYSPS4100SD	**NSYSPS4200SD**	**NSYSPSX5100**	**NSYSPSX5200**
NSYSPS4100SD	**NSYSPS4200SD**	**NSYSPSX5100**	**NSYSPSX5200**
NSYSPS4100SD	**NSYSPS4200SD**	**NSYSPSX5100**	**NSYSPSX5200**
NSYSPS4100SD	**NSYSPS4200SD**	**NSYSPSX5100**	**NSYSPSX5200**

100 mm	200 mm	100 mm	200 mm
NSYSPS5100SD	**NSYSPS5200SD**	**NSYSPSX5100**	**NSYSPSX5200**
NSYSPS5100SD	**NSYSPS5200SD**	**NSYSPSX5100**	**NSYSPSX5200**
NSYSPS5100SD	**NSYSPS5200SD**	**NSYSPSX5100**	**NSYSPSX5200**
NSYSPS5100SD	**NSYSPS5200SD**	**NSYSPSX5100**	**NSYSPSX5200**

100 mm	200 mm	100 mm	200 mm
NSYSPS4100SD	**NSYSPS4200SD**	-	-
NSYSPS4100SD	**NSYSPS4200SD**	-	-
NSYSPS4100SD	**NSYSPS4200SD**	-	-
NSYSPS4100SD	**NSYSPS4200SD**	-	-
NSYSPS6100SD	**NSYSPS6200SD**	-	-
NSYSPS6100SD	**NSYSPS6200SD**	-	-
NSYSPS6100SD	**NSYSPS6200SD**	-	-
NSYSPS6100SD	**NSYSPS6200SD**	-	-

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PanelSeT SD: Control Desk

Accessories

Modular Consoles

- Hinged modular console cover equipped with a pneumatic opening stay.
- Opens to 75°. Locking of the hinged modular console cover by two 3-mm double-bar locks (other inserts or barrels also available, to be ordered separately, see page 579).
- Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.
- Material: Welded folded steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Thickness: 15/10e mm
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Options:
The link between the control desk and the modular console requires, in certain cases, the addition of one or several blanking covers (to be ordered separately).
Optional galvanized mounting plate.


NSYSDC42

Characteristics	Number of cable entry cut-outs	Width (mm)	Height (mm)	Depth (mm)	References
Modular consoles	2	400	483	200	**NSYSDC42**
Modular consoles	2	400	483	300	**NSYSDC43**
Modular consoles	3	600	483	200	**NSYSDC62**
Modular consoles	3	600	483	300	**NSYSDC63**

4

Blanking Cover

- To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk.
- In any case, it is necessary to first remove the top plate delivered with the control desk.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Thickness: 15/10e mm
- Fixing: Fixing by screws


NSYRP2

Characteristics	Width (mm)	Height (mm)	References
Blanking cover	200	40	**NSYRP2**

Door for SD

Pneumatic opening stay

- Holds the desk lid in open position at an angle of 75°.


PB501213_42_nb

Nominal load per stay (N)	Max. load on lid (kg)	Compatibility	Control desk references			Standard supply stay
			With fixed rear panel References	With removable rear panel Sheet steel References	With console References	References
244	13	SD	**NSYSD6**	**NSYSD6R**	**NSYSDF88**	**NSYPLS24**
244	13	SD	**NSYSD8**	**NSYSD8R**	**NSYSDF810**	**NSYPLS24**
300	11	SD	-	-	**NSYSDF168**	**NSYPLS30**
300	11	SD	-	-	**NSYSDF1610**	**NSYPLS30**
300	15	SD	**NSYSD12**	**NSYSD12R**	**NSYSDF128**	**NSYPLS30**
300	15	SD	-	-	**NSYSDF1210**	**NSYPLS30**
300	17	SD	**NSYSD10**	**NSYSD10R**	**NSYSDF108**	**NSYPLS30**
300	17	SD	-	-	**NSYSDF1010**	**NSYPLS30**

Pneumatic Opening Stay

- Holds the desk lid in open position at an angle of 75°.

Supply:
Delivered with fixings


NSYPLS24

Characteristics	Nominal load per stay (N)	Max. load on lid (kg)	References
Pneumatic opening stay	244	13	**NSYPLS24**
Pneumatic opening stay	300	17	**NSYPLS30**

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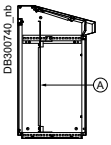
Escutcheon with Key Lock

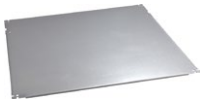

NSYML405SD

- Insert breakage torque: 15 daN.
- Material: Polyamide PA 6 material charged with 30% fiberglass
- Color: RAL 7011 gray
- Mechanical protection rating according to IEC 62262: IK10

Characteristics	References
405E key	**NSYML405SD**

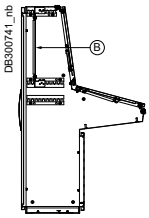
Plain Mounting Plate for Compact Control Desks




NSYPMP8560

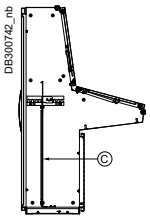
Characteristics	Width (mm)	Surface (dm²)	References
Mounting plate plain	600	42	**NSYPMP8560**
Mounting plate plain	800	59	**NSYPMP8580**
Mounting plate plain	1000	76	**NSYPMP85100**
Mounting plate plain	1200	93	**NSYPMP85120**

Plain Mounting Plate for Control Desk




NSYPMP4580

Characteristics	Width (mm)	Surface (dm²)	References
Mounting plate plain	800	31	**NSYPMP4580**
Mounting plate plain	1000	40	**NSYPMP45100**
Mounting plate plain	1200	77	**NSYPMP45120**
Mounting plate plain	1600	67	**NSYPMP45160**




NSYPMP8580

Characteristics	Width (mm)	Surface (dm²)	References
Mounting plate plain	800	49	**NSYPMP8580**
Mounting plate plain	1000	63	**NSYPMP85100**
Mounting plate plain	1200	77	**NSYPMP85120**
Mounting plate plain	1600	105	**NSYPMP85160**

Fixing Brackets


NSYMPBSD

- Set of 4 fixing brackets.
- Depth adjustment on 25 mm pitch.
- Included as standard with desk (all versions).
- To be ordered separately when required for installation of two back-to-back mounting plates in control desks with rear access.
- Material: Galvanized steel
- Thickness: 40/10^{e} mm
- Maximum load: 250 kg

Characteristics	References
Fixing brackets	**NSYMPBSD**

Adjustment Rails and Fixing Brackets


NSYMPB4SD

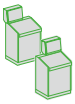
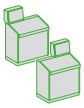
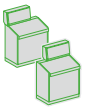
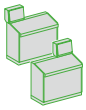
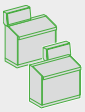
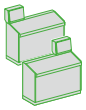
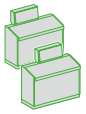
- Set of 4 rails and 4 fixing brackets.
- To install a plain mounting plate or a Telequick mounting plate, either at the top or across the height of the monobloc control desk with console.
- For positioning 2 plates (back-to-back), order fixing brackets ref. **NSYMPBSD**.

Characteristics	For control desks with console Depth (mm)	References
Adjustment rails and fixing brackets	400	**NSYMPB4SD**
Adjustment rails and fixing brackets	600	**NSYMPB6SD**

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PanelSeT SD: Control Desk

Accessories

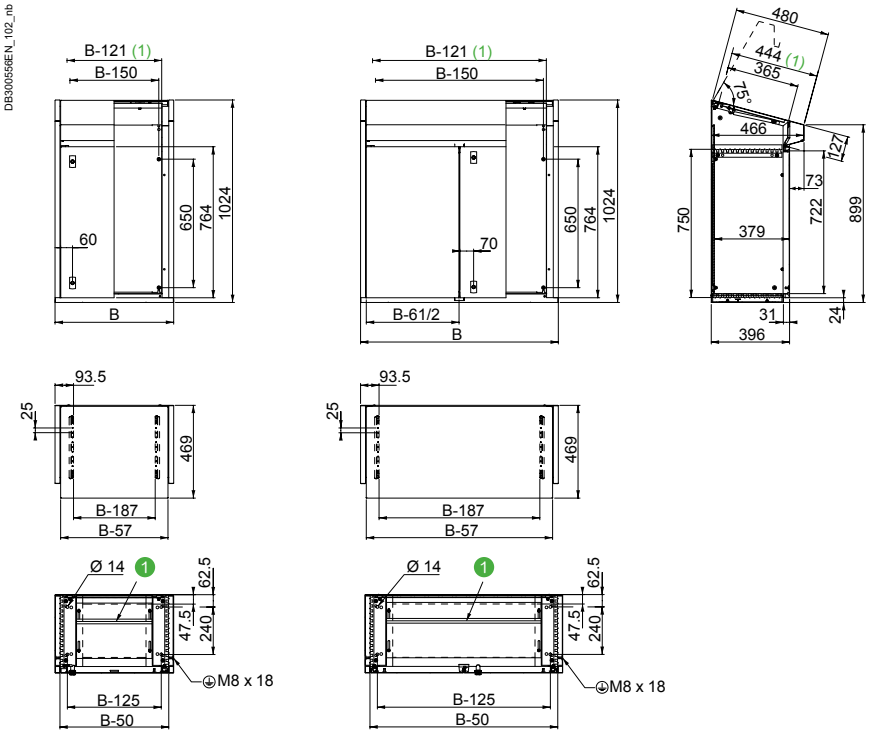
Combination examples of modular consoles installation		Compact control desk	Modular console	Blanking cover
600		PanelSeT SD	PanelSeT SD	PanelSeT SD
		**NSYSD6R**	**NSYSDC42 / NSYSDC43**	**NSYRP2**
		**NSYSD6R**	**NSYSDC62 / NSYSDC63**	-
800		PanelSeT SD	PanelSeT SD	PanelSeT SD
		**NSYSD8R**	**NSYSDC42 / NSYSDC43**	2 x **NSYRP2**
		**NSYSD8R**	2 x **NSYSDC42** / 2 x **NSYSDC43**	-
		**NSYSD8R**	**NSYSDC62 / NSYSDC63**	**NSYRP2**
1000		PanelSeT SD	PanelSeT SD	PanelSeT SD
		NSYSD10R	**NSYSDC42 / NSYSDC43**	3 x **NSYRP2**
		NSYSD10R	**NSYSDC62 / NSYSDC63**	2 x **NSYRP2**
		NSYSD10R	**NSYSDC62 / NSYSDC63**	2 x **NSYRP2**
		NSYSD10R	**NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63**	-
1200		PanelSeT SD	PanelSeT SD	PanelSeT SD
		**NSYSD12R**	**NSYSDC42 / NSYSDC43**	4 x **NSYRP2**
		**NSYSD12R**	**NSYSDC62 / NSYSDC63**	3 x **NSYRP2**
		**NSYSD12R**	**NSYSDC62 / NSYSDC63**	3 x **NSYRP2**
		**NSYSD12R**	2 x **NSYSDC62** / 2 x **NSYSDC63**	-
		**NSYSD12R**	**NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63**	**NSYRP2**

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ComPacT Control Desk

1 door

2 doors



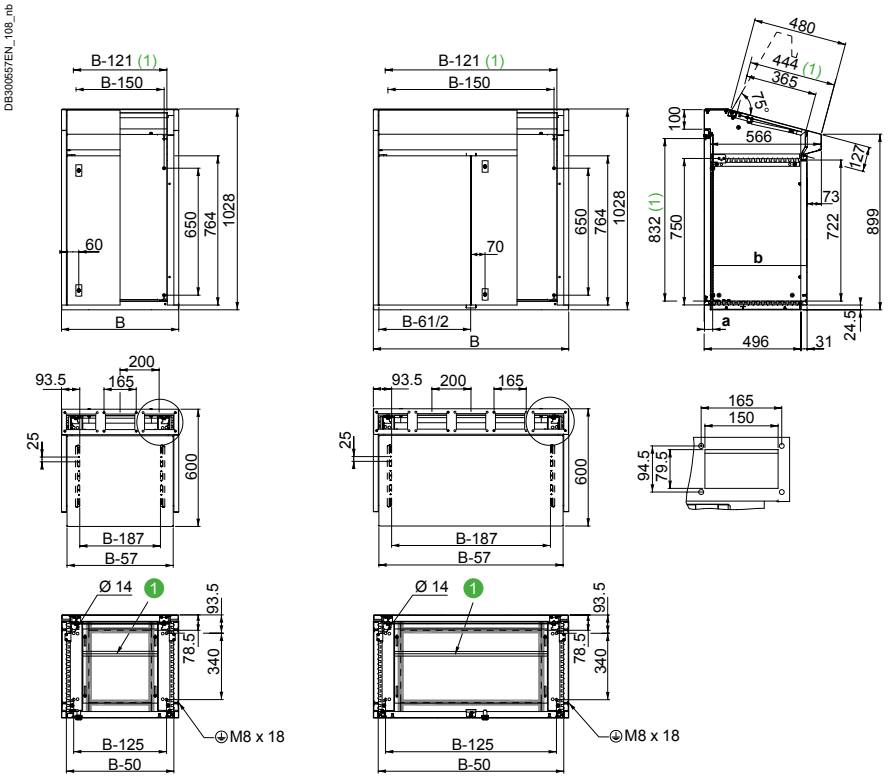
Cable gland plate clearance dimensions (mm)	
Width	**Maximum opening.**
B-280	56

Common side view.
(1) Usable clearance.

ComPacT Control Desks with Rear Panel

1 door

2 doors



Cable gland plate clearance dimensions (mm)	
Width	**Maximum opening.**
B-280	56

Adjustment of the depth of the mounting plate (mm)		
Depth	**Min.**	**Max.**
a	42	392
b	129	479

Common side view.
(1) Usable clearance.

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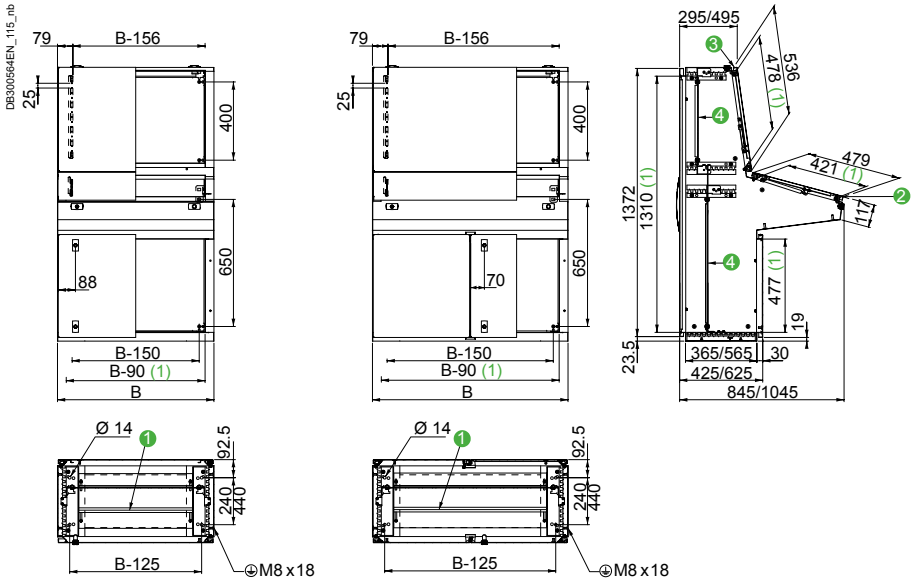
PanelSeT SD: Control Desk

Dimensions

Control Desk with Console

1 door

2 doors



Cable gland plate clearance dimensions (mm)	
Width	**Maximum opening.**
B-280	56

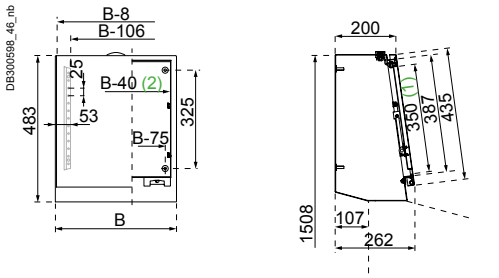
Notes	
1	1 entry cable gland plate
2	Maximum opening of the hinged desk lid: 75°
3	Maximum opening of the hinged console cover: 75°
4	Optional mounting plate installation, see page 285

Common side view.
(1) Usable clearance.

Modular Console

Depth 200 mm

Depth 300 mm



(1) Usable clearance.
(2) Same dimensions for the rear panel.

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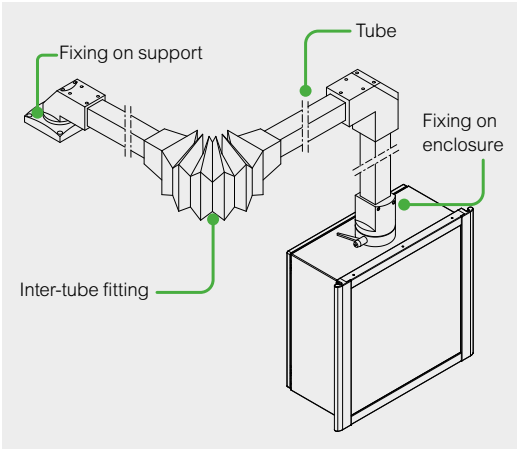
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PanelSeT S3CM: Control Enclosure with Suspension Rack

Introduction







The PanelSeT S3CM offer for human-machine interface combines robustness with aesthetics and ergonomics. It consist of:

- A control enclosure,
- A keyboard-box,
- A suspension system of arms and joints, for fixed or rotating solutions, and support accessories.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT S3CM: Control Enclosure with Suspension Rack

Introduction



Robustness

- Extruded steel tubes with thickness 40/10e mm
- Top wall reinforced by a plate with a thickness of 30/10e mm



Ease of Use

Easy access to the equipment by a rear door, opening to 120°
Direct installation of accessories on the enclosure frame rail:

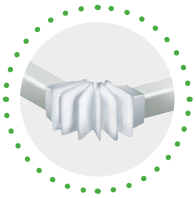
- vertical document support
- keyboard support
- laptop computer support

A box keyboard is installed directly on the enclosure



Aesthetics

- Extruded aluminum rail frame
- Frame: RAL 7040 Window gray
- Enclosure: RAL 7035 Light gray
- Customization to your image or the aesthetics of your machine: Consult us



Flexibility

Adaptable system with diverse options of tubes and connectors



Ergonomics

Frame designed to facilitate the handling and usage of the enclosure by the operator

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT S3CM: Control Enclosure with Suspension Rack

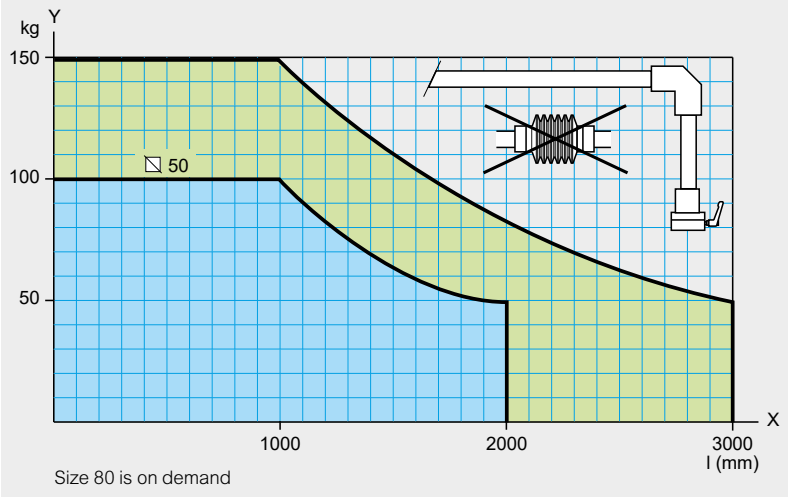
Introduction

Every model is suitable for tubes with a cross-section of 50 mm.
For cross-section of 80 mm consult us.

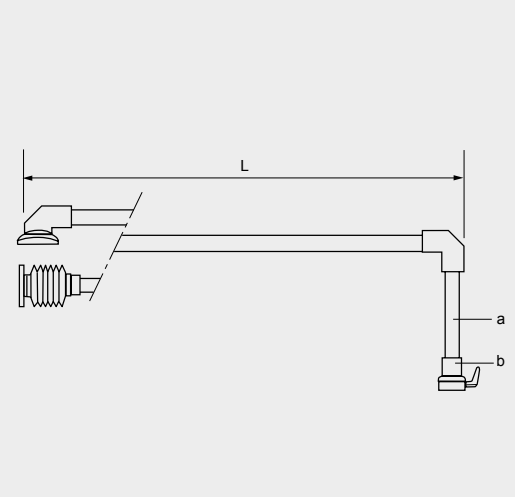
Steps to Choose the Suspension System (Medium or Heavy Loads)

1 - Define the total load of the system*: a + b + enclosure + installed equipment (Y-axis).
2 - Define the length of arm L (X-axis).
3 - Find the configuration:

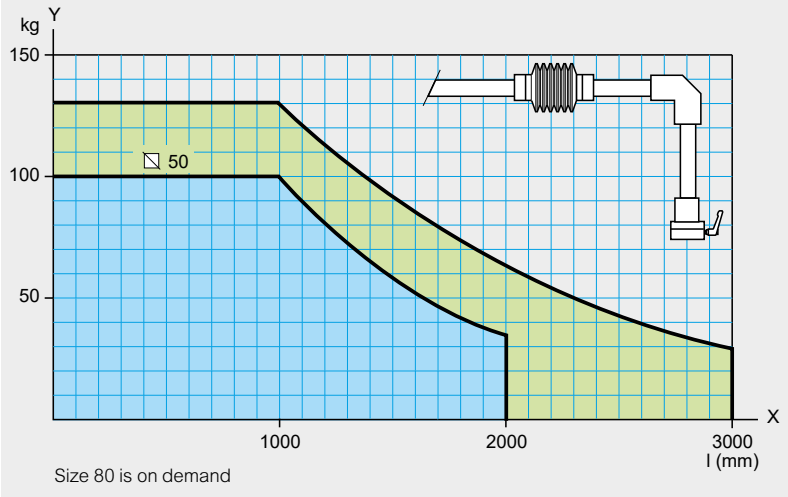
Suspension System without Intermediate Joint.



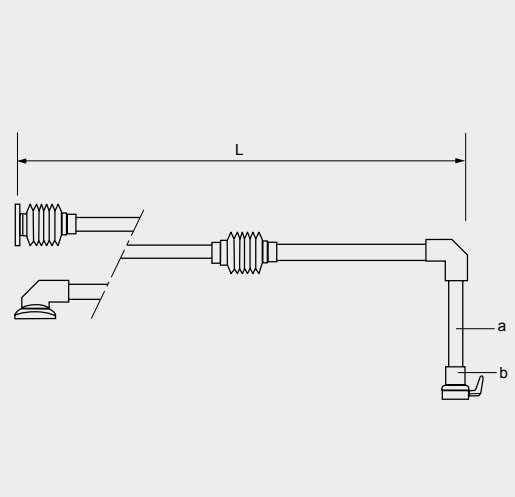
Size 80 is on demand



Suspension System with Intermediate Joint.

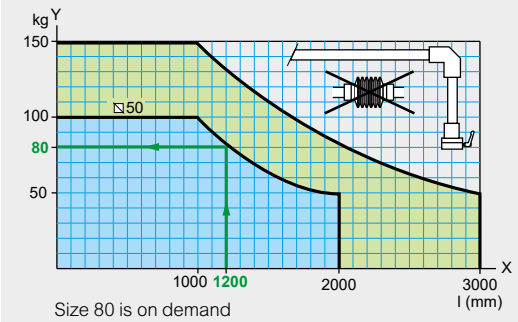


Size 80 is on demand



* The load (a + b + enclosure + installed equipment) needs to be less than the maximum load.

Example



Size 80 is on demand

1 - Total load (kg) = 80 kg.
2 - Length (L) = 1200 mm.
3 - Suspension system without intermediate joint.

Recommended system
> Medium loads Ø 50.

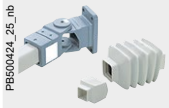
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PanelSeT S3CM: Control Enclosure with Suspension Rack

Selection Table

Enclosure dimensions (mm)				Tube section U 50 mm
	H (mm)	W (mm)	D (mm)	References
 PB500421_24_nb	300	300	200	**NSYS3CM303020**
	300	400	200	**NSYS3CM304020**
	400	400	200	**NSYS3CM404020**
	400	600	250	**NSYS3CM406025***
	500	500	250	**NSYS3CM505025**
	600	600	200	**NSYS3CM606020***
	600	800	300	-
	800	600	300	-

Tube		Tube section U 50 mm
	Length (m)	References
 PB500422_33_nb	0.5	**NSYCMT5005**
	1	**NSYCMT5010**
	1.5	**NSYCMT5015**
	2	**NSYCMT5020**

Fixing on support (steel material)		Tube section U 50 mm
		References
 NSYCMUMR50	1 Fixed base	**NSYCMUMR50**
 PB500424_25_nb	2 Wall fixing with joint	**NSYCMUMA50**
 PB500425_30_nb	3 Rotating straight fitting	**NSYCMUMC50**

Inter-tube fitting (aluminum material)		Tube section U 50 mm
		References
 PB500426_28_nb	4 Horizontal inter-tube joint	**NSYCMUIA50**
 PB500427_24_nb	5 Fixed bracket	**NSYCMUTC50**

Fixing on enclosure (aluminum material)		Tube section U 50 mm
		References
 PB500428_18_nb	6 Rotating fixing on enclosure	**NSYCMUCR50**
 PB500429_28_nb	7 Rotating fixing in bracket on enclosure	**NSYCMUCC50**

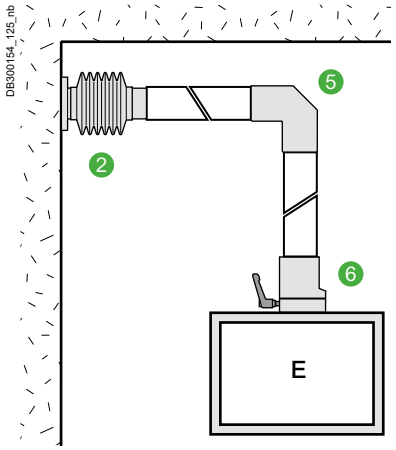
* Enclosure equipped with a cable gland plate.

4

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PanelSeT S3CM: Control Enclosure with Suspension Rack

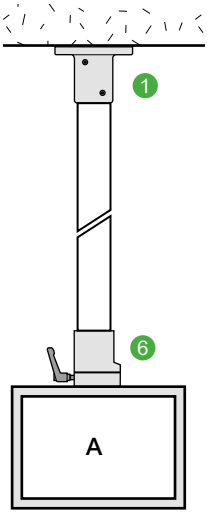
Selection Table



Fixing on support
2 See page 296

Inter-tube fitting
5 See page 297

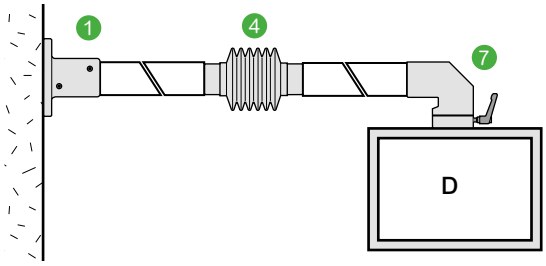
Fixing on enclosure
6 See page 297



Fixing on support
1 See page 296

Inter-tube fitting

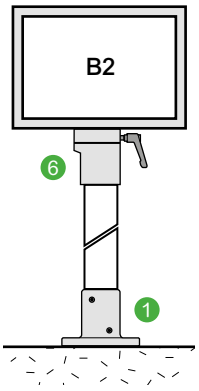
Fixing on enclosure
6 See page 297



Fixing on support
1 See page 296

Inter-tube fitting
4 See page 296

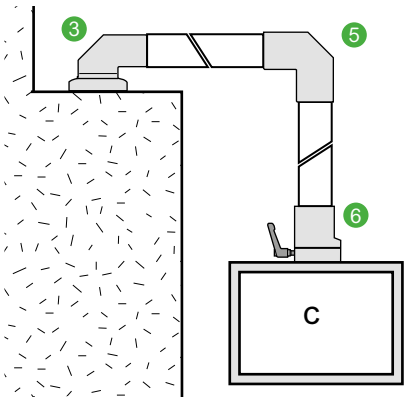
Fixing on enclosure
7 See page 297



Fixing on support
1 See page 296

Inter-tube fitting

Fixing on enclosure
6 See page 297



Fixing on support
3 See page 296

Inter-tube fitting
5 See page 297

Fixing on enclosure
6 See page 297

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT S3CM: Control Enclosure with Suspension Rack

Accessories

PanelSeT S3CM

The control enclosures consist of:
A steel body equipped with:
- Reinforcement plate: The top wall is reinforced by a plate (3 mm) and pierced with a hole Ø 54 or 87 mm (according to the reference) to allow hanging installation of the enclosure,
- 4 welded studs on the 2 inner vertical walls, for fixing the rails,
- 2 rails (with drill holes) for installing equipment,
- A rear door, opening to 120° and closing with double-bar lock.

(1) Enclosure equipped with a cable gland plate

An aluminum front face (2.5 mm thick):
- This surface is protected on both sides by a plastic film, allowing the installation of the dialogue elements,
- A trim frame made from 4 extruded-aluminum rails.
- Structured finish, epoxy polyester powder, RAL 7040 gray color (other colors on demand).
- The design of these rails takes into account the accessory mounting functions (lamp, document support, keyboard support, laptop support, etc.), the ergonomics for handling the enclosure and its overall aesthetics.
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Ingress protection rating: IP54 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262
- UL (cULus) certification with rating 1, 2, 3R, 12 and 13 according to UL50E

For more details see page 298



NSYS3CM303020

Characteristics	Enclosure load (kg)	Tube section (mm)	Height (mm)	Width (mm)	Depth (mm)	References
HMI encl. PanelSeT S3CM	8.6	50	300	300	200	**NSYS3CM303020**
HMI encl. PanelSeT S3CM	9.5	50	300	400	200	**NSYS3CM304020**
HMI encl. PanelSeT S3CM	11.4	50	400	400	200	**NSYS3CM404020**
HMI encl. PanelSeT S3CM (1)	17.9	50	400	600	250	**NSYS3CM406025**
HMI encl. PanelSeT S3CM	20.2	50	500	500	250	**NSYS3CM505025**
HMI encl. PanelSeT S3CM (1)	26.5	50	600	600	200	**NSYS3CM606020**

Human-Machine Interface - Specific Accessories

Box Keyboard for Control Enclosure

- The box is installed on the control enclosures with a width of 600 mm. It then has an angle of 120° with its front face. All the accessories required for installation are delivered with 2 brackets and 1 trim rail, 1 hose for cable entry.

The box consists of:
- A steel body, structured finish, epoxy polyester powder, RAL 7035 gray color, with a screwed cover, an aluminum front face (2.5 mm thick) for installing a keyboard,
- A trim frame made from 2 extruded-aluminum rails for ergonomic handling of the box and the aesthetics of the unit. The frame and the front face are delivered assembled. Structured finish, epoxy polyester powder painting, RAL 7040 gray color.
- Ingress protection rating: IP54
- Mechanical protection rating: IK10
- Weight: 8 kg

For more details see page 299



NSYCMT2560110

Characteristics	Height (mm)	Width (mm)	References
Box-keyboard for control enclosure	250	600	**NSYCMT2560110**

Support

- Installation on the left or right rail of the frame of the control enclosure.
- Material: Sheet steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Thickness: 15/10e mm

For more details see page 299



NSYCMBPT

Characteristics	References
Support for Keyboard	**NSYCMBPT**

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PanelSeT S3CM: Control Enclosure with Suspension Rack

Accessories

Tube

The tubes are available in:
- 2 sizes: Square of 50 and 80 mm,
- 4 lengths: 0.5, 1, 1.5 and 2 m
- Material: Extruded steel
- Finish: structured finish, powder
- Color: RAL 7035 gray
- Thickness: 40/10e mm


NSYCMT5005

Characteristics	Square (mm)	Length (m)	Weight (kg/m)	References
Tube	50	0.5	6.5	**NSYCMT5005**
Tube	50	1	6.5	**NSYCMT5010**
Tube	50	1.5	6.5	**NSYCMT5015**
Tube	50	2	6.5	**NSYCMT5020**

Fixed Base

- Support foot for direct horizontal or vertical connection.
- Material: Molded steel
- Color: RAL 7040 gray

For more details see page 300


NSYCMUMR50

Characteristics	Square (mm)	Weight (kg)	References
Fixed base	50	3.25	**NSYCMUMR50**

Wall Fixing with Joint

- Device allowing rotation through 170° of a horizontal tube, with a square section of 50 or 80 mm, and its fixing on a vertical surface.
- Protection by bellows, RAL 7035 gray color.
- Option of passing cables through the inside of the joint.
- Material: Molded steel
- Color: RAL 7040 gray

For more details see page 300



NSYCMUMA50

Characteristics	Square (mm)	Weight (kg)	References
Wall fixing with joint	50	4.35	**NSYCMUMA50**

Rotating Straight Fitting

- Device allowing the fixing and rotation through 295° of tubes, with a square section of 50 or 80 mm, in horizontal position.
- Without blocking the chosen position.
- Fixing by 4 screws, not included.
- Material: Molded steel
- Color: RAL 7040 gray

For more details see page 300



NSYCMUMC50

Characteristics	Square (mm)	Weight (kg)	References
Rotating straight fitting	50	5.4	**NSYCMUMC50**

Horizontal Inter-Tube Joint

- Device allowing the linking and rotation through 170° of 2 horizontal tubes, with a square section of 50 or 80 mm.
- Protection by bellows, RAL 7035 gray color.
- Option of passing cables through the inside of the joint.
- Material: Molded steel
- Color: RAL 7040 gray

For more details see page 300



NSYCMUIA50

Characteristics	Square (mm)	Weight (kg)	References
Horizontal inter-tube joint	50	4.25	**NSYCMUIA50**

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PanelSeT S3CM: Control Enclosure with Suspension Rack

Accessories

Fixed Bracket

- Our system of tubes and joints, fixed or rotating, enables all the solutions to respond to the installation needs of the control enclosures for human-machine dialogue.
- Device allowing the combination and fixing of a horizontal tube with a vertical tube.
- Material: Aluminum
- Color: RAL 7040 gray



NSYCMUTC50

For more details see page 301

Characteristics	Square (mm)	Weight (kg)	References
Fixed bracket	50	1.35	**NSYCMUTC50**

Rotating Fixing on Enclosure

- Device allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in vertical position.
- System for blocking in the chosen position.
- Fixing through the support surface by 4 screws.
- Material: Aluminum
- Color: RAL 7040 gray



NSYCMUCR50

For more details see page 301

Characteristics	Square (mm)	Weight (kg)	References
Rotating fixing on enclosure	50	1.25	**NSYCMUCR50**

Rotating Fixing in Bracket on Enclosure

- Devices allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in horizontal position.
- System for blocking in the chosen position.
- Fixing through the support surface by 4 screws.
- Material: Aluminum
- Color: RAL 7040 gray



NSYCMUCC50

For more details see page 301

Characteristics	Square (mm)	Weight (kg)	References
Rotating fixing in bracket on enclosure	50	2	**NSYCMUCC50**

Adapter for Signalling Beacon

- It is installed on fixed brackets ref. NSYCMUTC50 and NSYCMUTC80.
- Material: Aluminum.
- Finish: Structured finish, powder.
- Color: RAL 7040 gray



NSYCMACS50

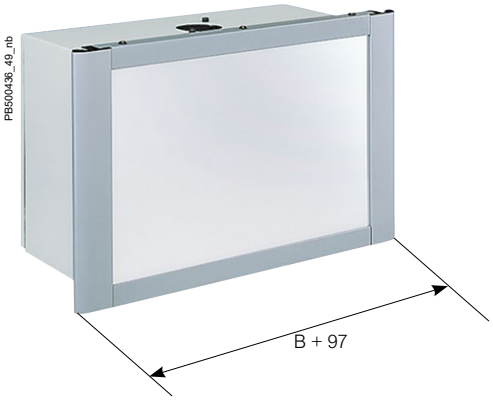
Characteristics	Square (mm)	Weight (kg)	References
Adapter for signalling beacon	50	0.025	**NSYCMACS50**

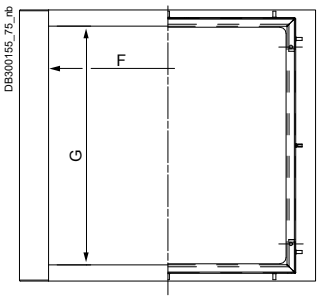
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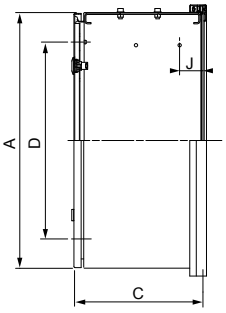
Panel**SeT** S3CM: Control Enclosure with Suspension Rack

Dimensions

HMI Enclosure Panel**SeT** S3CM



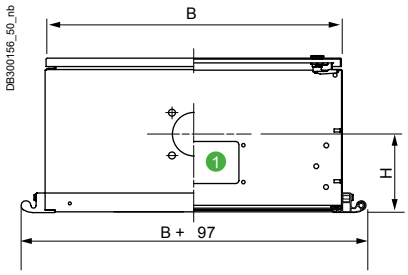




A: Height.
B: Width.
C: Depth.

4

W600 enclosure + box keyboard installation



1 Cable gland plate.

Figure 1
Enclosure depth from 200 to 250

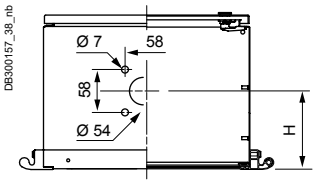
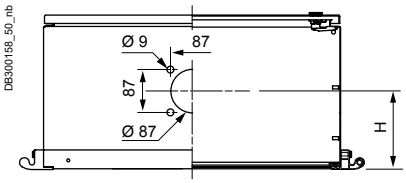


Figure 2
Enclosure depth 300



Enclosure dimensions (mm)								Cable gland plate	Ø Top hole (mm)	Fig.	Enclosure References
Height (mm)	Width (mm)	Depth (mm)	D	F	G	H	J				
300	300	200	162	262	262	100	45	-	54	1	**NSYS3CM303020**
300	400	200	162	362	262	100	45	-	54	1	**NSYS3CM304020**
400	400	200	262	362	362	100	45	-	54	1	**NSYS3CM404020**
400	600	250	262	562	362	125	75	●	54	1	**NSYS3CM406025***
500	500	250	362	462	462	125	75	-	54	1	**NSYS3CM505025**
600	600	200	462	562	562	100	45	●	54	1	**NSYS3CM606020***
600	800	300	462	762	562	150	100	-	87	2	**NSYS3CM608030**

* Enclosure equipped with a cable gland plate.



Perforated Rails Installed on Lateral Studs.



Detail of the Reinforcement Plate.



Rear Door with Double-Bar Lock.



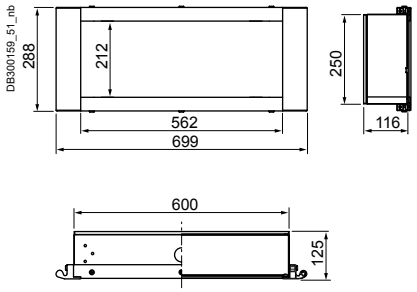
Fixing of the Trim Frame by Screws.

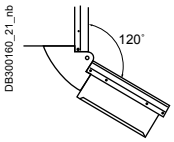
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PanelSeT S3CM: Control Enclosure with Suspension Rack

Dimensions

Box Keyboard for Control Enclosure

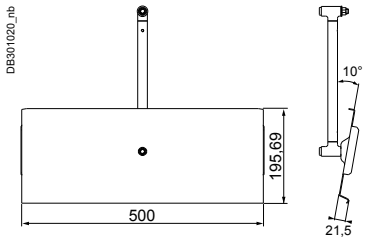




Detail from the Installation
of the Box Keyboard on the Control Enclosure.

Support

Keyboard



4

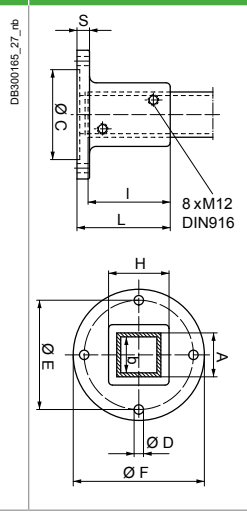
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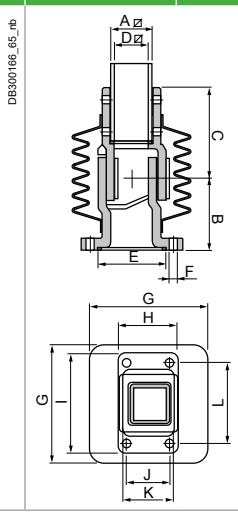
PanelSeT S3CM: Control Enclosure with Suspension Rack

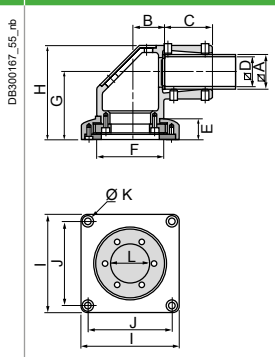
Dimensions

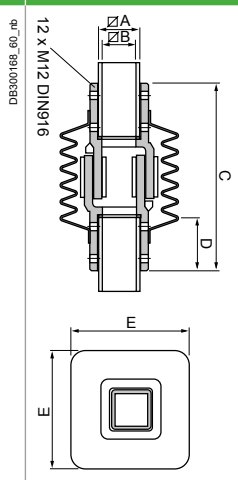
Suspension System

	Fixed base	Wall fixing with joint		Rotating straight fitting	Horizontal inter-tube joint
Weight (kg)	3.25	4.35	9.45	5.4	4.25
Dimensions (mm) ⍁ A	**50 mm²**	**50 mm²**	**80 mm²**	**50 mm²**	**50 mm²**
B	42	92	115	50	42
C	105	118	160	68	236
D	11	42	72	42	67
E	125	85	130	30	148
F	152	11	11	96	-
G	-	148	190	96	-
H	72	80	115	134	-
I	97	130	175	140	-
J	-	55	90	120	-
K	-	68	103	9	-
L	110	105	150	55	-
S	15	-	-	-	-
References	**NSYCMUMR50**	**NSYCMUMA50**	**NSYCMUMA80**	**NSYCMUMC50**	**NSYCMUIA50**









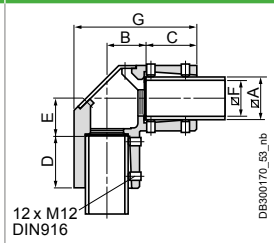
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PanelSeT S3CM: Control Enclosure with Suspension Rack

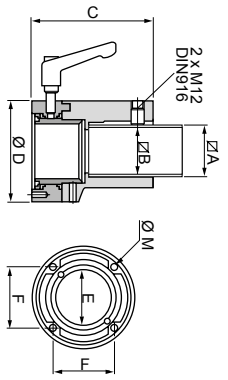
Suspension System

	Fixed bracket	Rotating fixing on enclosure	Rotating fixing in bracket on enclosure
Weight (kg)	1.35	1.25	2
Dimensions (mm) ⍁ A	**50 mm²**	**50 mm²**	**50 mm²**
B	46	42	46
C	60	115	60
D	60	96	147
E	46	52.3	96
F	42	58	42
G	144	-	154
H	-	-	42
I	-	-	58
M	-	M6	M6
References	**NSYCMUTC50**	**NSYCMUCR50**	**NSYCMUCC50**

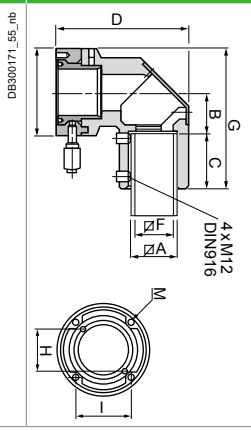
DB300169_33_nb



DB300170_53_nb

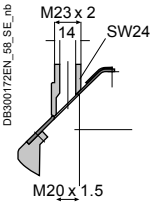


DB300171_55_nb



Adapter for Signalling Beacon

DB300172EN_58_SE_nb



4

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Specific Applications

Network and Server

PanelSeT SFN IT: Floor-Standing Enclosures for IT



PanelSeT S3D: Wall-Mounted Enclosures for IT



Actassi OPB: Open Box



Actassi KDB: Knock Down Box





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Panel**SeT** S3D: Wall-Mounted Enclosures for IT

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Panel**SeT** SFN IT: Floor-Standing Enclosures for IT

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Actassi OPB: Open Box

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Actassi KDB: Knock Down Box

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PanelSeT S3D-SFN IT

Introduction



Industrial businesses need adaptable IT solutions that evolve with their needs. A dynamic industrial environment requires versatile, future-proof systems that drive operational efficiency and innovation.

Our approach centers on flexible modular systems that are meticulously designed to be tailored to the specific requirements of each customer. Offering customizable configurations, seamless scalability, and integration possibilities, our solutions effortlessly adapt to evolving technological and operational demands.

Moreover, this range can be configured to meet your specific requirements, supported by our customization services.

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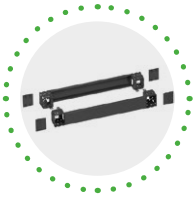
Robust
- Secure housing for IT infrastructure
- Sturdy with IP55 ingress protection
- Durable and reliable



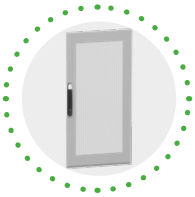
Flexible
- Modular system based on SFN enclosure in kit and rack accessories
- Configurable to adapt it to specific requirements



Lower Impact Approach
- CO_2 footprint reduction using low-carbon steel
- Recycled cardboard packaging



Efficient
- Simplified design for an optimized mounting
- User friendly mounting and intuitive design
- Streamline operations and enhance productivity



Cooling
- Effective thermal management to maintain optimal operating temperatures, to preserve longevity and performance of the IT equipment
- Wide range of cooling options



Customizable
- Personalization to specific requirements including several services
- Easy design thanks to the Custom Enclosure Configurator software tool

This range can be configured according to your needs
4 different services available:


Assemble to order


Mounting of standard accessories


Machining


Painting

For more information, see **Customization Services** page 12.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** S3D: Wall-Mounted Enclosures for IT

Characteristics

Panel**SeT** S3D Empty Enclosure

- Single-piece body (cross-shaped structure). Gutter-shaped front profile with double fold. Flat rear.
- Cable gland plate with marking for easy drilling and to help guarantee the maximum access surface; delivered with the enclosure. This plate is flush with the body of the enclosure.
- Glazed door, 4 mm-thick Securit® glass, easily removable and reversible, with 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges (From the height of 800 mm).
- Material: Steel.
- Finish: dtructured finish, epoxy polyester powder.
- Color: RAL 7035 gray.
- Ingress protection rating: IP66 for the single-door enclosures according to IEC 60529.
- Mechanical protection rating: IK10 for the plain-door enclosures according to IEC 62262, IK08 for the glazed-door enclosures.
- Maximum load: 50 kg/m².
- Fixing: direct wall-mounted or with the help of fixing lugs installed from the outside (to be ordered separately, see page 523).
- Other characteristics: for heights from 600 mm, three locking points with linkage, with a single control point. Simple reversal.

Delivery includes a handle with two functions:

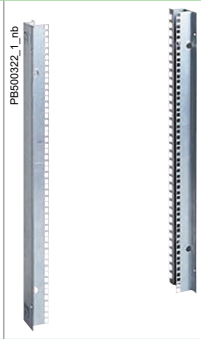
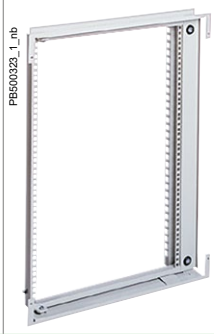
- Operating key.
- Tool for loosening the stud protection caps.

This handle can be solidly attached to the locking system by means of a captive element.
Perforated rails on the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm:

- 2 vertical rails from the height of 400 mm and from the width of 800 mm.

Note:
Door opening to 180°
with optional hinges (page 580)

Supply:
Wall-mounted enclosure supplied with 3-mm double-bar lock as standard

Glazed Door	Plain Door	Fixed Rack	Swing Rack
			

Dimensions (mm)			References			
Height	Width	Depth				
400	600	200	**NSYS3D4620T**	**NSYS3D4620**	**NSYVDM8UF**	**NSYVDM7UP**
400	600	250	**NSYS3D4625T**	**NSYS3D4625**	**NSYVDM8UF**	**NSYVDM7UP**
600	600	200	**NSYS3D6620T**	**NSYS3D6620**	**NSYVDM12UF**	**NSYVDM11UP**
600	600	250	**NSYS3D6625T**	**NSYS3D6625**	**NSYVDM12UF**	**NSYVDM11UP**
600	600	300	**NSYS3D6630T**	**NSYS3D6630**	**NSYVDM12UF**	**NSYVDM11UP**
600	600	400	**NSYS3D6640T**	**NSYS3D6640**	**NSYVDM12UF**	**NSYVDM11UP**
800	600	200	**NSYS3D8620T**	**NSYS3D8620**	**NSYVDM17UF**	**NSYVDM16UP**
800	600	250	**NSYS3D8625T**	**NSYS3D8625**	**NSYVDM17UF**	**NSYVDM16UP**
800	600	300	**NSYS3D8630T**	**NSYS3D8630**	**NSYVDM17UF**	**NSYVDM16UP**
800	600	400	**NSYS3D8640T**	**NSYS3D8640**	**NSYVDM17UF**	**NSYVDM16UP**
1000	600	250	**NSYS3D10625T**	**NSYS3D10625**	**NSYVDM21UF**	**NSYVDM20UP**
1000	600	300	**NSYS3D10630T**	**NSYS3D10630**	**NSYVDM21UF**	**NSYVDM20UP**
1000	600	400	**NSYS3D10640T**	**NSYS3D10640**	**NSYVDM21UF**	**NSYVDM20UP**
1000	800	250	**NSYS3D10825T**	**NSYS3D10825**	-	**NSYVDM20U8P**
1000	800	300	**NSYS3D10830T**	**NSYS3D10830**	-	**NSYVDM20U8P**
1000	800	400	**NSYS3D10840T**	**NSYS3D10840**	-	**NSYVDM20U8P**
1200	800	300	**NSYS3D12830T**	**NSYS3D12830**	-	**NSYVDM25U8P**
1200	800	400	**NSYS3D12840T**	**NSYS3D12840**	-	**NSYVDM25U8P**

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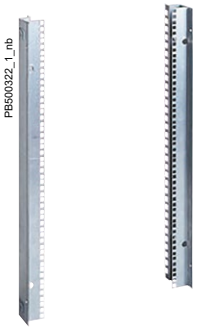
PanelSeT S3D: Wall-Mounted Enclosures for IT

Accessories

PanelSeT S3D Fixed Rack (racks to be ordered separately)

- 19" fixed chassis composed by 2 19" uprights with fixing hardware.
- Thickness: 20/10e mm.
- Material: Galvanized steel
- Maximum load: 3 kg per unit

Note:
Adjustable in depth by fixing on the step slides in accessories (see page 512).

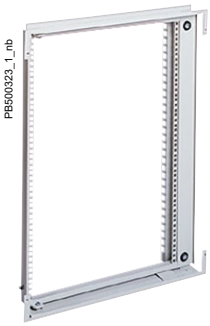


NSYVDM8UF

Characteristics	Number of U	Height (mm)	Width (mm)	References
Fixed rack	8	400	600	**NSYVDM8UF**
Fixed rack	12	600	600	**NSYVDM12UF**
Fixed rack	17	800	600	**NSYVDM17UF**
Fixed rack	21	1000	600	**NSYVDM21UF**

PanelSeT S3D Swing Rack (racks to be ordered separately)

- 19" swing chassis opening to 120° with locking system by 3-mm double-bar insert.
- Material: Steel
- Finish: Epoxy polyester powder
- Color: RAL 7035 gray
- Maximum load: 3 kg per unit



NSYVDM11UP

Characteristics	Number of U	Height (mm)	Width (mm)	References
Swing rack	11	600	600	**NSYVDM11UP**
Swing rack	16	800	600	**NSYVDM16UP**
Swing rack	20	1000	600	**NSYVDM20UP**
Swing rack	25	1200	800	**NSYVDM25U8P**

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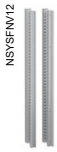
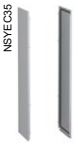
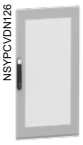
PanelSeT SFN IT: Floor-Standing Enclosures for IT

Selection Table

All the parts you need to build your Industrial IT enclosure in 4 simple steps:

Choose:

1 Dimensions ····· 2 Front & back ·····

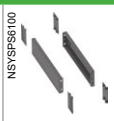
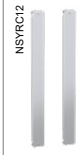
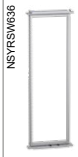
			Structure		Side panels	Doors			Back panel	Cable entry plates
			 NSYSFNV12	 NSYSFNC64	 NSYEC35	 NSY2SFN128	 NSYSFND128T	 NSYPCVDN126	 NSYBPN126	 NSY2SPN124
Dimensions (mm)										
Height	**Width**	**Depth**	**Uprights**	**Frames+roof**	**Side panels**	**Plain**	**Transparent**	**Ventilated**	**Back panel**	**plain**
1200	600	600	**NSYSFNV12**	**NSYSFNC66**	**NSY2SPN126**	**NSYSFND126**	**NSYSFND126T**	**NSYPCVDN126**	**NSYBPN126**	**NSYEC66**
	600	800	**NSYSFNV12**	**NSYSFNC68**	**NSY2SPN128**	**NSYSFND126**	**NSYSFND126T**	**NSYPCVDN126**	**NSYBPN126**	**NSYEC68**
	800	600	**NSYSFNV12**	**NSYSFNC86**	**NSY2SPN126**	**NSYSFND128**	**NSYSFND128T**	**NSYPCVDN128**	**NSYBPN128**	**NSYEC86**
	800	800	**NSYSFNV12**	**NSYSFNC88**	**NSY2SPN128**	**NSYSFND128**	**NSYSFND128T**	**NSYPCVDN128**	**NSYBPN128**	**NSYEC88**
1400	600	600	**NSYSFNV14**	**NSYSFNC66**	**NSY2SPN146**	**NSYSFND146**	**NSYSFND146T**	-	**NSYBPN146**	**NSYEC66**
	600	800	**NSYSFNV14**	**NSYSFNC68**	**NSY2SPN148**	**NSYSFND146**	**NSYSFND146T**	-	**NSYBPN146**	**NSYEC68**
	800	600	**NSYSFNV14**	**NSYSFNC86**	**NSY2SPN146**	**NSYSFND148**	**NSYSFND148T**	-	**NSYBPN148**	**NSYEC86**
	800	800	**NSYSFNV14**	**NSYSFNC88**	**NSY2SPN148**	**NSYSFND148**	**NSYSFND148T**	-	**NSYBPN148**	**NSYEC88**
1600	600	600	**NSYSFNV16**	**NSYSFNC66**	**NSY2SPN166**	**NSYSFND166**	**NSYSFND166T**	-	**NSYBPN166**	**NSYEC66**
	600	800	**NSYSFNV16**	**NSYSFNC68**	**NSY2SPN168**	**NSYSFND166**	**NSYSFND166T**	-	**NSYBPN166**	**NSYEC68**
	800	600	**NSYSFNV16**	**NSYSFNC86**	**NSY2SPN166**	**NSYSFND168**	**NSYSFND168T**	-	**NSYBPN168**	**NSYEC86**
	800	800	**NSYSFNV16**	**NSYSFNC88**	**NSY2SPN168**	**NSYSFND168**	**NSYSFND168T**	-	**NSYBPN168**	**NSYEC88**
1800	600	600	**NSYSFNV18**	**NSYSFNC66**	**NSY2SPN186**	**NSYSFND186**	**NSYSFND186T**	-	**NSYBPN186**	**NSYEC66**
	600	800	**NSYSFNV18**	**NSYSFNC68**	**NSY2SPN188**	**NSYSFND186**	**NSYSFND186T**	-	**NSYBPN186**	**NSYEC68**
	800	600	**NSYSFNV18**	**NSYSFNC86**	**NSY2SPN186**	**NSYSFND188**	**NSYSFND188T**	**NSYPCVDN188**	**NSYBPN188**	**NSYEC86**
	800	800	**NSYSFNV18**	**NSYSFNC88**	**NSY2SPN188**	**NSYSFND188**	**NSYSFND188T**	**NSYPCVDN188**	**NSYBPN188**	**NSYEC88**
2000	600	600	**NSYSFNV20**	**NSYSFNC66**	**NSY2SPN206**	**NSYSFND206**	**NSYSFND206T**	**NSYPCVDN206**	**NSYBPN206**	**NSYEC66**
	600	800	**NSYSFNV20**	**NSYSFNC68**	**NSY2SPN208**	**NSYSFND206**	**NSYSFND206T**	**NSYPCVDN206**	**NSYBPN206**	**NSYEC68**
	600	1000	**NSYSFNV20**	**NSYSFNC610**	**NSY2SPN2010**	**NSYSFND206**	**NSYSFND206T**	**NSYPCVDN206**	**NSYBPN206**	**NSYEC610**
	800	600	**NSYSFNV20**	**NSYSFNC86**	**NSY2SPN206**	**NSYSFND208**	**NSYSFND208T**	**NSYPCVDN208**	**NSYBPN228**	**NSYEC86**
	800	800	**NSYSFNV20**	**NSYSFNC88**	**NSY2SPN208**	**NSYSFND208**	**NSYSFND208T**	**NSYPCVDN208**	**NSYBPN228**	**NSYEC88**
	800	1000	**NSYSFNV20**	**NSYSFNC810**	**NSY2SPN2010**	**NSYSFND208**	**NSYSFND208T**	**NSYPCVDN208**	**NSYBPN228**	**NSYEC810**
2200	600	600	**NSYSFNV22**	**NSYSFNC66**	**NSY2SPN226**	**NSYSFND226**	**NSYSFND226T**	**NSYPCVDN226**	**NSYBPN226**	**NSYEC66**
	600	800	**NSYSFNV22**	**NSYSFNC68**	**NSY2SPN228**	**NSYSFND226**	**NSYSFND226T**	**NSYPCVDN226**	**NSYBPN226**	**NSYEC68**
	600	1000	**NSYSFNV22**	**NSYSFNC610**	**NSY2SPN2210**	**NSYSFND226**	**NSYSFND226T**	**NSYPCVDN226**	**NSYBPN226**	**NSYEC610**
	800	600	**NSYSFNV22**	**NSYSFNC86**	**NSY2SPN226**	**NSYSFND228**	**NSYSFND228T**	**NSYPCVDN228**	**NSYBPN228**	**NSYEC86**
	800	800	**NSYSFNV22**	**NSYSFNC88**	**NSY2SPN228**	**NSYSFND228**	**NSYSFND228T**	**NSYPCVDN228**	**NSYBPN228**	**NSYEC88**
	800	1000	**NSYSFNV22**	**NSYSFNC810**	**NSY2SPN2210**	**NSYSFND228**	**NSYSFND228T**	**NSYPCVDN228**	**NSYBPN228**	**NSYEC810**
Details			see page 264		see page 517	see page 570		see page 312	see page 78	see page 561

SELECT IT!
Use our Product Selector to order the necessary parts:
https://www.se.com/ww/en/product-range/5778

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PanelSeT SFN IT: Floor-Standing Enclosures for IT

Selection Table

	Cable entry plates		Plinths (H 100 mm)		Plinths (H 200 mm)		19" fixed rack			19" swing rack	
	 NSYEC351  NSYEC662		 NSYSPF6100  NSYSPS6100		 NSYSPF6200  NSYSPS6200		 NSYRCK24  NSYRCKS6  NSYRC12			 NSYRSW636  NSYRSW36	
	1-entry	2-entry	Front/rear	Sides	Front/rear	Sides	Rack	Support	Side covers	Centered	Off-center
	NSYEC661	NSYEC662	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYRCK24	-	-	-	-
	NSYEC681	NSYEC682	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYRCK24	-	-	-	-
	NSYEC861	NSYEC862	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYRCK24(1)	NSYRCKS6	NSYRC12	-	-
	NSYEC881	NSYEC882	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYRCK24(1)	NSYRCKS8	NSYRC12	-	-
	NSYEC661	NSYEC662	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYRCK29	-	-	-	-
	NSYEC681	NSYEC682	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYRCK29	-	-	-	-
	NSYEC861	NSYEC862	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYRCK29(1)	NSYRCKS6	NSYRC14	-	NSYRSW27
	NSYEC881	NSYEC882	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYRCK29(1)	NSYRCKS8	NSYRC14	-	NSYRSW27
	NSYEC661	NSYEC662	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYRCK33	-	-	-	-
	NSYEC681	NSYEC682	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYRCK33	-	-	-	-
	NSYEC861	NSYEC862	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYRCK33(1)	NSYRCKS6	NSYRC16	-	NSYRSW31
	NSYEC881	NSYEC882	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYRCK33(1)	NSYRCKS8	NSYRC16	-	NSYRSW31
	NSYEC661	NSYEC662	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYRCK38	-	-	NSYRSW636	-
	NSYEC681	NSYEC682	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYRCK38	-	-	NSYRSW636	-
	NSYEC861	NSYEC862	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYRCK38(1)	NSYRCKS6	NSYRC18	NSYRSWC36	NSYRSW36
	NSYEC881	NSYEC882	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYRCK38(1)	NSYRCKS8	NSYRC18	NSYRSWC36	NSYRSW36
	NSYEC661	NSYEC662	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYRCK42	-	-	NSYRSW640	-
	NSYEC681	NSYEC682	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYRCK42	-	-	NSYRSW640	-
	NSYEC6101	NSYEC6102	NSYSPS6100(2)	NSYSPF10100(2)	NSYSPS6200(2)	NSYSPF10200(2)	NSYRCK42	-	-	NSYRSW640	-
	NSYEC861	NSYEC862	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYRCK42(1)	NSYRCKS6	NSYRC20	NSYRSWC40	NSYRSW40
	NSYEC881	NSYEC882	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYRCK42(1)	NSYRCKS8	NSYRC20	NSYRSWC40	NSYRSW40
	NSYEC8101	NSYEC8102	NSYSPS8100(2)	NSYSPF10100(2)	NSYSPS8200(2)	NSYSPF10200(2)	NSYRCK42(1)	NSYRCKS10	NSYRC20	NSYRSWC40	NSYRSW40
	NSYEC661	NSYEC662	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYRCK47	-	-	NSYRSW645	-
	NSYEC681	NSYEC682	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYRCK47	-	-	NSYRSW645	-
	NSYEC6101	NSYEC6102	NSYSPS6100(2)	NSYSPF10100(2)	NSYSPS6200(2)	NSYSPF10200(2)	NSYRCK47	-	-	NSYRSW645	-
	NSYEC861	NSYEC862	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYRCK47(1)	NSYRCKS6	NSYRC22	NSYRSWC45	NSYRSW45
	NSYEC881	NSYEC882	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYRCK47(1)	NSYRCKS8	NSYRC22	NSYRSWC45	NSYRSW45
	NSYEC8101	NSYEC8102	NSYSPS8100(2)	NSYSPF10100(2)	NSYSPS8200(2)	NSYSPF10200(2)	NSYRCK47(1)	NSYRCKS10	NSYRC22	NSYRSWC45	NSYRSW45
	see page 562		see page 532				see page 314	see page 315	see page 315	see page 317	see page 317

(1) Support brackets for coupling the fixed rack to enclosures of width 800 mm (NSYRCK•, see **page 314**), possible to reinforce the rigidity by cantral fixing kit (NSYRCK19KIT, see **page 315**).
(2) For depth 1000 mm, select plinth with corners (NSYSPF•) for sides and plinth without corners (NSYSPS•) for front/rear.

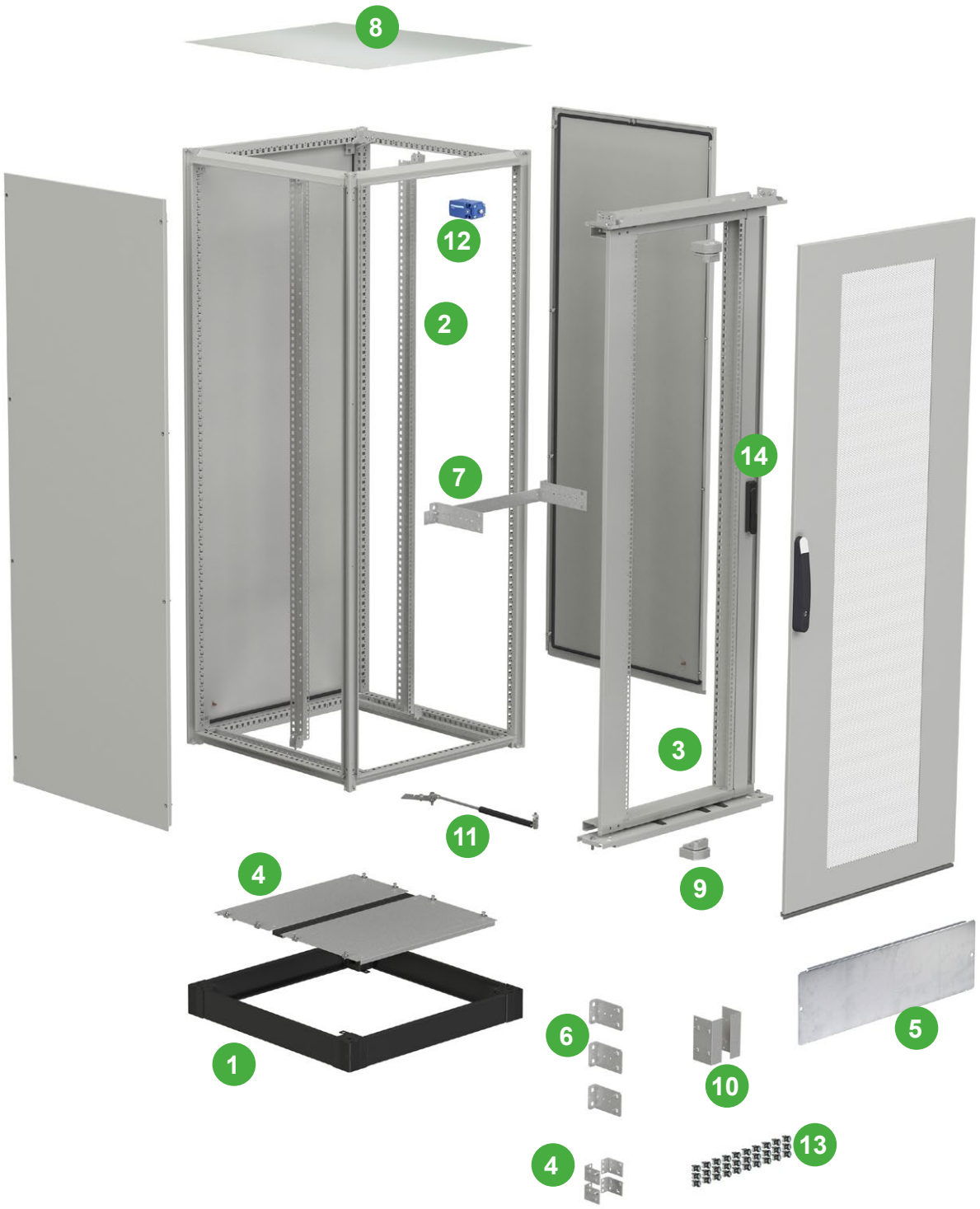
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PanelSeT SFN IT: Floor-Standing Enclosures for IT

Accessories



Mounting and Composition Accessories

1 Plinths

See details p. 532

2 19'' fixed rakcs and related accessories

See details p. 314

3 Swing racks and related accessories

See details p. 317

4 1 U / 3 U Support

See details p. 319

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PanelSeT SFN IT: Floor-Standing Enclosures for IT

Accessories

Cable Accessories

4



Cable gland plate: Plain, 1 entry, 2 entries

See details p. 561

5



Actassi gland plates and related accessories

See details p. 313

6



Fixing of cable ducts

See details p. 319

7



Rear cable guide support

See details p. 319

Other Accessories

8



Actassi roof plates and related accessories

See details p. 312

9



Hinges

See details p. 318

10



Partial single slides

See details p. 319

11



Mechanical and pneumatic retainer

See details p. 320

12



Switch

See details p. 320

13



Fixings

See details p. 320

14



Flat escutcheon for swing rack

See details p. 320

> For more information consult the Accessories chapter **page 312** and **472**

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PanelSeT SFN IT: Floor-Standing Enclosures for IT

Accessories

Single Ventilated Door for 19" Racks

- Door designed to achieve natural airing of the enclosure.
- Installation on enclosures with a width of 600 and 800 mm, equipped with centered fixed or swing racks. Opening of 120°.
- Standard locking system with handle and 5-mm double-bar insert.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Supply:
1 ventilated door for racks


NSYPCVDN126

Characteristics	Height (mm)	Width (mm)	References
Single ventilated door	1200	600	**NSYPCVDN126**
Single ventilated door	1200	800	**NSYPCVDN128**
Single ventilated door	1800	800	**NSYPCVDN188**
Single ventilated door	2000	600	**NSYPCVDN206**
Single ventilated door	2000	800	**NSYPCVDN208**
Single ventilated door	2200	600	**NSYPCVDN226**
Single ventilated door	2200	800	**NSYPCVDN228**

4

Actassi Plain Plate for Roof

- Removable plate made from folded sheet steel
- Option of installing roof elevators for aeration, ref. **NSYEX206**, and cable glands
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Supply:
1 plain plate and fixing elements

NSYTSPC450

Characteristics	References
Actassi plain plate for roof	**NSYTSPC450**

Actassi Plate with Brush Gasket for Roof

- Removable folded sheet steel plate, equipped with a gasket with cable gland brush
- Optional installation of roof elevators for aeration, ref. **NSYEX206**, and cable gland plates
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Supply:
1 plate with brush gasket and fixing elements


NSYTSP450

Characteristics	References
Actassi plate with brush gasket for roof	**NSYTSP450**

Roof Plate Elevators for Aeration

- Columns with a height of 20 mm.
- Fixing: Between the roofplate and the roof.

Supply:
100 units. Reference by unit.
Order by multiples of 100 (100, 200, 300…).


NSYEX206

Characteristics	References
Roof plate elevators for aeration	**NSYEX206**

Actassi Ventilated Support with Filter

- Fixing: To be mounted on the cable gland plate with or without fan or on the self-ventilated cable gland plate.
- Color: RAL 9011

Supply:
1 mounting support and filter


NSYFECVT440

Characteristics	References
Actassi ventilated support with filter	**NSYFECVT440**

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PanelSeT SFN IT: Floor-Standing Enclosures for IT

Accessories

Actassi Plain Cable Gland Plate

- Material: Galvanized steel
- Fixing: Fixing on the outside of the roof and bottom support plate
  Can be combined with other types of cable gland plates

Supply:
1 plain cable gland plate and fixing elements



NSYEC440

Characteristics	References
Actassi plain cable gland plate	**NSYEC440**

Actassi Cable Gland Plate with Brush

- Material: Galvanized steel
- Fixing: Fixing on the outside of the roof and bottom support plate
  Can be combined with other types of cable gland plates

Supply:
1 cable gland plate with brush and fixing elements



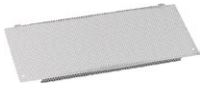
NSYECP440

Characteristics	References
Actassi cable gland plate with brush	**NSYECP440**

Actassi Self-Ventilated Cable Gland Plate

- Material: Galvanized steel
- Fixing: Fixing on the outside of the roof and bottom support plate
  Can be combined with other types of cable gland plates

Supply:
1 self-ventilated cable gland plate and fixing elements



NSYECAV440

Characteristics	References
Actassi self-ventilated cable gland plate	**NSYECAV440**

Actassi Airing Plate with or without Fans, Symbol Diameter Before 120 mm

- Fixing: Fixing on the outside of the roof and bottom support plate
  Can be combined with other types of cable gland plates
- Other characteristics: Sound level: 34 dB (A)

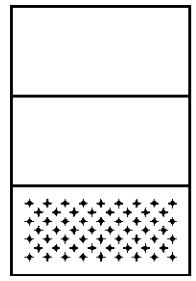
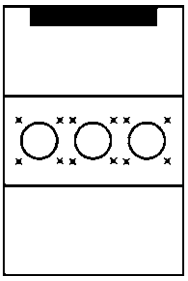
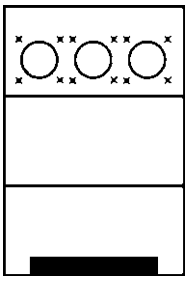
Supply:
1 cable gland plate with or without fans, 2-m power cord (version with fans) and fixing elements
Versions with 2 or 3 fans: Each of them has an output capacity of 170 m³/h, 220 V-50/60 Hz, installed and wired to a terminal strip. A 2-m power cord is supplied connected



NSYECVT3V440

Characteristics	Description	References
Actassi airing plate with or without fans, symbol diameter before 120 mm	With 3 fans	**NSYECVT3V440**
Actassi airing plate with or without fans, symbol diameter before 120 mm	With 2 fans	**NSYECVT2V440**

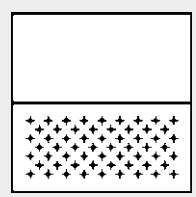
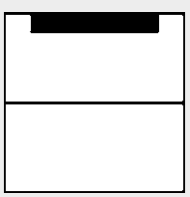
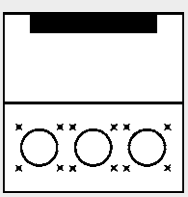
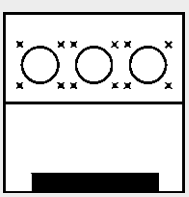
Top frame - 3 blanking plates

Width	Depth	Example 1	Example 2	Example 3	Example 4
600 mm **800 mm**	**600 mm** **800 mm** **1000 mm**				
Cut-out = 400 x 450 mm		400 mm	400 mm	400 mm	400 mm

DB300703

3 x 150 mm

Top frame - 2 Blanking plates

Width	Depth	Example 1	Example 2	Example 3	Example 4
600 mm **800 mm**	**600 mm**				
Cut-out = 400 x 300 mm		400 mm	400 mm	400 mm	400 mm

DB300704_nb

2 x 150 mm

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PanelSeT SFN IT: Floor-Standing Enclosures for IT

Accessories

Partial 19" Fixed Rack

- Rack designed for coupling in enclosures with a width of 600 mm.
- Adjustable depth with a pitch of 25 mm.
- Material: Zinc-coated steel
- Maximum load: 2 kg/U

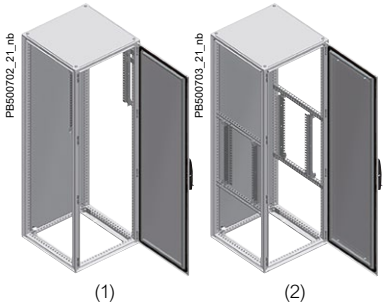
Installation:

PanelSeT SFN:

- Installation at the top front of the enclosure, no cross-rails needed (1)
- Depth adjustment of the partial rack: two cross-rails need to be installed, see page 494
- For installation at any other height, four cross-rails are required (2)

PanelSeT SM:

- At the front of the enclosure (1): Install two front vertical adaptation profiles, see page 498
- For depth adjustment (2): Install two front vertical adaptation profiles, see page 498 and two rear vertical 40 mm (1 row) cross-rails and four cross-rails, see page 494



Supply:
2 uprights and fixing elements

Characteristics	Number of units	Height (mm)	References
Partial 19" fixed rack	4	200	**NSYRCKP4**
Partial 19" fixed rack	8	400	**NSYRCKP8**
Partial 19" fixed rack	12	600	**NSYRCKP12**
Partial 19" fixed rack	17	800	**NSYRCKP17**
Partial 19" fixed rack	21	1000	**NSYRCKP21**
Partial 19" fixed rack	26	1200	**NSYRCKP26**


NSYRCKP12

19" Fixed Rack

- Rack designed for installation in enclosures with a width of 600 mm.
- Adjustable depth with a pitch of 25 mm.
- Material: Zinc-coated steel
- Maximum load: 400 kg for 4 uprights
- Maximum load: 200 kg for 2 uprights

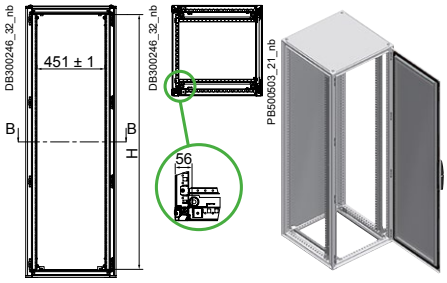
Installation:

PanelSeT SFN:

- Direct fixing on the structure of the enclosures:
- For installation on enclosures with a width of 800 mm, use the 19" fixed-rack support brackets,
- To reinforce the rigidity of the uprights in enclosures with a width of 800 mm, it is advisable to use the central fixing kit, for enclosure heights above 1800 mm, ref. **NSYRCK19KIT**.

PanelSeT SM:

- Fixing on the top/bottom adjustment rails.



Supply:
2 uprights and fixing elements

Characteristics	Number of units	Height (mm)	References
19" fixed rack	24	1200	**NSYRCK24**
19" fixed rack	29	1400	**NSYRCK29**
19" fixed rack	33	1600	**NSYRCK33**
19" fixed rack	38	1800	**NSYRCK38**
19" fixed rack	42	2000	**NSYRCK42**
19" fixed rack	47	2200	**NSYRCK47**


NSYRCK38

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PanelSeT SFN IT: Floor-Standing Enclosures for IT

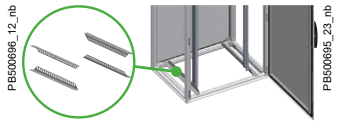
Accessories

Support Brackets for 19" Fixed Rack with a Width of 800 mm



NSYRCKS8

- Support brackets for coupling the fixed rack to enclosures with a width of more than 600 mm.
- They allow the depth of the fixed rack to be adjusted with a pitch of 25 mm.
- The fixed sizes are delivered in pairs.
- Material: Zinc-coated steel
- Maximum load: 400 kg



Supply:
4 support brackets and fixing elements

Characteristics	Depth (mm)	References
Support brackets for 19" fixed rack	600	**NSYRCKS6**
Support brackets for 19" fixed rack	800	**NSYRCKS8**
Support brackets for 19" fixed rack	1000	**NSYRCKS10**

Side Plates of the Centered Fixed Rack for a Width of 800 mm



NSYRC20

- Side plates for coupling to the fixed rack in enclosures with a width of 800 mm.
- Direct installation on the rack by screws.
- The fixed sizes are delivered in pairs.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray



Supply:
2 side plates and fixing elements

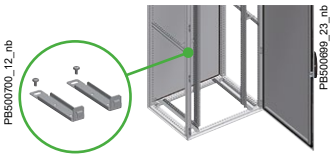
Characteristics	Height (mm)	References
Side plates of the centered fixed rack	1200	**NSYRC12**
Side plates of the centered fixed rack	1800	**NSYRC18**
Side plates of the centered fixed rack	2000	**NSYRC20**
Side plates of the centered fixed rack	2200	**NSYRC22**

Central Fixing Kit



NSYRCK19KIT

- To reinforce the rigidity of the 19" fixed racks in enclosures with a width of 800 mm.
- Fixing to the enclosure by cross-rails or light cross-rails installed depthwise. See page 495.
- Material: Zinc-coated steel



Supply:
2 supports and fixing elements

Characteristics	References
Central fixing kit	**NSYRCK19KIT**

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PanelSeT SFN IT: Floor-Standing Enclosures for IT

Accessories

Partial 19" Swing Rack for 600 and 800 mm Enclosures

- Rack for coupling to enclosures with widths of 600 and 800 mm.
- In enclosures with a width of 800 mm, the rack can be installed centered or off-center.
- Maximum opening: 120°.
- Reversible opening direction: Left/right.
- Locking system, top and bottom, with 5-mm double-bar key.
- The 6 and 9 units racks only with bottom lock.
- Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm.
- Material: Zinc-coated steel

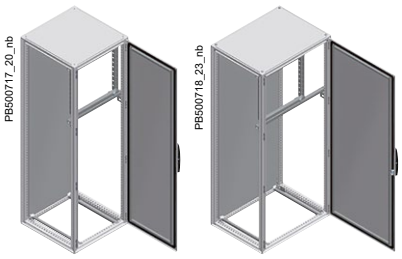
Installation:

PanelSeT SFN:

- To install at the front at any height of the enclosure: directly to the framework by rack fixing elements
- For depth adjustment: Install two (for top height) or four (for any height) 65 mm (2 rows) cross-rails, see page 494

PanelSeT SM:

- To install at the front at any height of the enclosure: install two front vertical adaptation profiles, see page 498
- For depth adjustment: Install two front vertical adaptation profiles, see page 498 and two rear vertical 40 mm cross-rails and four 65 mm (2 rows) cross-rails, see page 494
- Maximum load: 2 kg/U



For more details see page 321

(1) Optional installation in enclosures with height of 1200 mm.

Supply:
1 partial 19" swing rack


NSYRSWP15

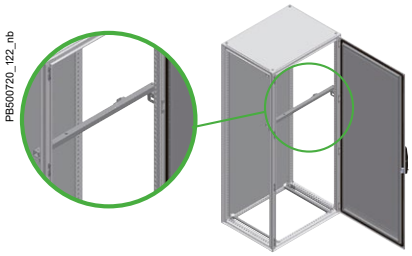
Characteristics	Number of units (H)	Height (mm)	References
Partial 19" swing rack	6	355	**NSYRSWP6**
Partial 19" swing rack	9	468	**NSYRSWP9**
Partial 19" swing rack	12	601	**NSYRSWP12**
Partial 19" swing rack	15	735	**NSYRSWP15**
Partial 19" swing rack	18	868	**NSYRSWP18**
Partial 19" swing rack (1)	21	1002	**NSYRSWP21**

Partial 19" Swing Rack Support for 600 and 800 mm Enclosures

- Supports for coupling the partial swing rack to enclosures with widths of 600 and 800 mm.
- Height or depth adjustment, with a pitch of 25 mm, by two 65 mm (2 rows) universal cross-rails and a 19" multiple bracket, ref. **NSYMBR19**.
- PanelSeT SFN: Direct fixing to the structure.
- PanelSeT SM: Fixing to the enclosure by means of the vertical adaptation profile, see page 498.
- Material: Zinc-coated steel

Installation:

- Installation of the rack in centered or off-center position, for enclosures with a width of 800 mm



Supply:
2 supports and fixing elements



NSYRSWSP6

Characteristics	Width (mm)	References
Partial 19" swing rack support	600	**NSYRSWSP6**
Partial 19" swing rack support	800	**NSYRSWSP8**

19" Multiple Bracket



NSYMBR19

- Bracket for fixing 65 mm universal cross-rails (2 rows), depthwise, to position the partial 19" swing rack in any direction, up and down and/or depthwise.
- Material: Zinc-coated steel.

Supply:
4 brackets and fixing elements

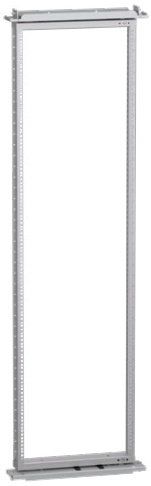
Characteristics	Width (mm)	References
19" multiple bracket	600	**NSYMBR19**

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PanelSeT SFN IT: Floor-Standing Enclosures for IT

Accessories

19" Swing Rack for 600 mm Enclosures



NSYRSW640

- To be coupled to enclosures with widths of 600 mm.
- Can be moved depthwise with a pitch of 25 mm.
- Reversible opening direction: Left/right.
- Locking system, top and bottom, with 5-mm double-bar key.
- Maximum opening: 130°.
- Maximum equipment installation depth: 180 mm.
- Not compatible with 120° mechanical retainer **NSYRCDR12**

Fixing to the enclosure structure:

PanelSeT SFN:

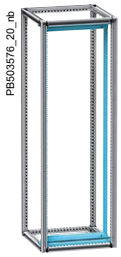
- Fixing to the enclosure structure.

PanelSeT SM:

- Fixing to the enclosure on top/bottom adjustment rails.

Components:

- Zinc-coated steel central structure.
- Mounting cross-rail on structure made from steel painted with epoxy polyester resin, textured RAL 7035 gray. Fixed to the central structure by screws.



For more details see page 321

Supply:
1 19" swing rack with no panels

Characteristics	Number of units (H)	Height (mm)	References
19" swing rack	36	1800	**NSYRSW636**
19" swing rack	40	2000	**NSYRSW640**
19" swing rack	45	2200	**NSYRSW645**

19" Swing Rack for 800 mm Enclosures, Off-Center



NSYRSW40

- To be coupled to enclosures with widths of 800 mm.
- Can be moved depthwise with a pitch of 25 mm.
- Reversible opening direction: Left/right.
- Locking system, top and bottom, with 5-mm double-bar key.
- Maximum opening: 130° (option of opening to 180° using 180° hinges).
- Material: Zinc-coated steel and steel painted
- Maximum load: 3.75 kg/unit with a max of 150 kg

Installation:

- PanelSeT SFN-SM
- Other mounting options: Consult us

Maximum equipment installation depth:

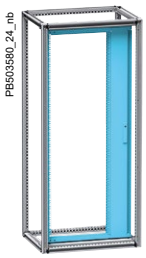
- Off-center 19" swing rack: 470 mm
- Centered 19" swing rack: 390 mm

Fixing to the enclosure structure:

- PanelSeT SFN: Fixing to the entire height of the enclosure structure.
- PanelSeT SM: Fixing to the enclosure on top/bottom adjustment rails.

Components:

- Zinc-coated steel central structure.
- Mounting cross-rail on structure made from steel painted with epoxypolyester resin, textured RAL 7035 gray.
- Fixed to the central structure by screws.
- Side plate made from steel painted with epoxy polyester resin, textured RAL 7035 gray. Fixed to the central structure by screws.



For more details see page 321

Spare handle:
Order ref. **NSYTEDB5ML** (handle) + **NSYTMME** (blind barrel).

Supply:
Centered and off-center 19" swing rack: hinged rack, 800 mm swing rack supports, side plates with locking system double-bar and fixing elements

Characteristics	Number of units (H)	Height (mm)	References
19" swing rack, off-center	27	1400	**NSYRSW27**
19" swing rack, off-center	31	1600	**NSYRSW31**
19" swing rack, off-center	36	1800	**NSYRSW36**
19" swing rack, off-center	40	2000	**NSYRSW40**
19" swing rack, off-center	45	2200	**NSYRSW45**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN IT: Floor-Standing Enclosures for IT

Accessories

19" Swing Rack for 800 mm Enclosures, Centered


NSYRSWC40

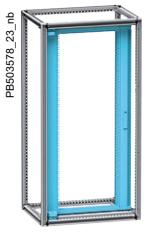
- To be coupled to enclosures with widths of 800 mm.
- Can be moved depthwise with a pitch of 25 mm.
- Reversible opening direction: Left/right.
- Locking system, top and bottom, with 5-mm double-bar key.
- Maximum opening: 130° (option of opening to 180° using 180° hinges).
- Material: Zinc-coated steel and steel painted
- Maximum load: 3.75 kg/unit with a max of 150 kg

Installation:
- PanelSeT SFN-SM
- Other mounting options: Consult us

Maximum equipment installation depth:
- Off-center 19" swing rack: 470 mm
- Centered 19" swing rack: 390 mm

Fixing to the enclosure structure:
- PanelSeT SFN: Fixing to the entire height of the enclosure structure.
- PanelSeT SM: Fixing to the enclosure on top/bottom adjustment rails.

Components:
- Zinc-coated steel central structure.
- Mounting cross-rail on structure made from steel painted with epoxypolyester resin, textured RAL 7035 gray.
- Fixed to the central structure by screws.
- Side plate made from steel painted with epoxy polyester resin, textured RAL 7035 gray. Fixed to the central structure by screws.


PB503578_23_nb

For more details see page 321

Supply:
Centered and off-center 19" swing rack: hinged rack, 800 mm swing rack supports, side plates with locking system double-bar and fixing elements

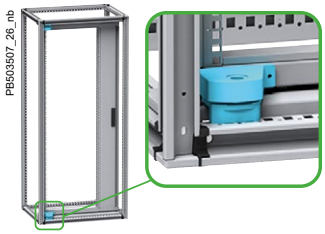
Characteristics	Number of units (H)	Height (mm)	References
19" swing rack, centered	36	1800	**NSYRSWC36**
19" swing rack, centered	40	2000	**NSYRSWC40**
19" swing rack, centered	45	2200	**NSYRSWC45**

180° Hinge


NSYRSWH180

- Hinge for installation on centered and off-center 19" swing racks.
- Allows the swing rack to be opened to 180°.
- Fixing by M8 screws directly to the swing rack.
- Material: Zamak 5

Maximum equipment installation depth:
Off-center 19" swing rack: 425 mm,
Centered 19" swing rack: 345 mm.


PB503507_26_nb

Supply:
2 hinges and fixing elements

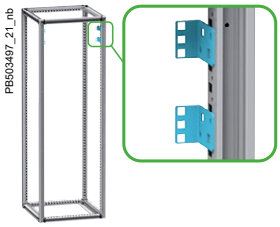
Characteristics	References
180° hinge	**NSYRSWH180**

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PanelSeT SFN IT: Floor-Standing Enclosures for IT

Accessories

1 U / 3 U Support





NSYRC1U

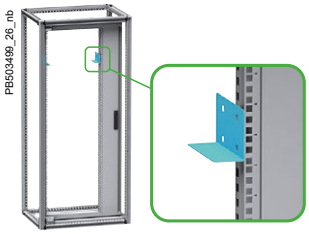
- Support prepared for installing equipment 1 U or 3 U high.
- Designed with quick-locking for easy installation.
- **PanelSeT SFN:** Direct fixing to the structure.
- **PanelSeT SM:** Fixing to the enclosure by means of the vertical adapter section, see page 498.
- Material Zinc-coated steel

For more details see page 321

Supply:
4 1 U/3 U supports (2 units right and 2 units left) and fixing elements

Characteristics	References
1 U / 3 U support	**NSYRC1U**

19" Partial Single Slides





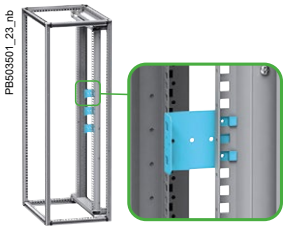
NSYGB140

- Rails for installation on fixed or swing racks.
- Direct fixing on the structure of the enclosure, by quick-locking.
- Material: Zinc-coated steel
- Thickness: 12/10e mm
- Maximum load: 15 kg

Supply:
2 rails and fixing elements

Characteristics	References
19" partial single slides	**NSYGB140**

Fixing of Cable Ducts on 19" Racks





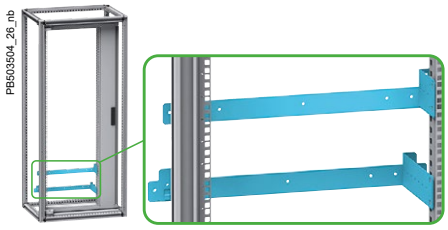
NSYRCDFIX

- Allows vertical fixing of cable ducts for cable guide.
- Service depth: 150 mm.
- Fixed by quick-locking to the 19" rack profile.
- Material: Zinc-coated steel

Supply:
3 units and fixing elements

Characteristics	References
Fixing of cable ducts on 19" racks	**NSYRCDFIX**

Rear Cable-Guide Support





NSYRCSUP25

- Supports used for installation on the rear of the swing racks.
- Suitable for fixing cable-guide accessories.
- Allow vertical fixing of cable ducts: Adjustable depth with a pitch of 44.45 mm.
- Material: Zinc-coated steel

Supply:
2 cable-guide supports, crossbar and fixing elements

Characteristics	Service depth (mm)	References
Rear cable-guide support	150	**NSYRCSUP15**
Rear cable-guide support	250	**NSYRCSUP25**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN IT: Floor-Standing Enclosures for IT

Accessories

120° Mechanical Retainer

- Retainer for installation on the swing racks.
- Maximum opening: 120°.
- Not compatible with the 19'' swing racks for 600 mm enclosures (NSYRSW6*)

Fixing:
Direct fixing to the rack support and the 19" rack

Supply:
1 mechanical door stop and fixing elements


NSYRCDR12

Characteristics	References
120° mechanical retainer	**NSYRCDR12**

180° Pneumatic Retainer

- Retainer for installation on the swing racks installed with 180° hinges, in enclosures with a depth of 600, 800 or 1000 mm.
- Maximum opening: 180°.

Fixing:
PanelSeT SFN:
Fixing to the base of the structure and to the rack.
PanelSeT SM:
Direct fixing to the rack support and to the 19" rack.

Supply:
1 pneumatic door stop and fixing elements


NSYRCDR18

Characteristics	References
180° pneumatic retainer	**NSYRCDR18**

Flat Escutcheon for Swing 19" Rack


NSYRCLOCK

- Flat escutcheon with 5-mm double-bar insert lock, for installation on swing 19" racks

Supply:
1 flat escutcheon, 5-mm double-bar insert and fixing elements

Characteristics	References
Flat escutcheon for swing 19" rack	**NSYRCLOCK**

Switch for Swing 19" Rack


NSYRCINT

- Switch for direct fixing on the bottom or top support of the swing rack.
- M20 connection.
- NO + NC contact, 10 A/500 V.

Supply:
1 19" rack switch and fixing elements

Characteristics	References
Switch for swing 19" rack	**NSYRCINT**

Fixings for 19" Rack


PB500189_28_nb

- They allow 19" accessories to be mounted.
- Caged nut compatible with 8.5 x 8.5 mm and 9.5 x 9.5 mm holes.


NSYGFR95M63

Characteristics	Set of	References
M6 screws + washers + nuts	30	**NSYGFR95M63**
M6 x 16 screws and washers	50	**NSYGFR166P**
M6 caged nuts	100	**NSYCN9M625**
M6 screws + washers + nuts	50	**NSYGFR95M65**
M5 screws + washers + nuts	50	**NSYGFR95M55**

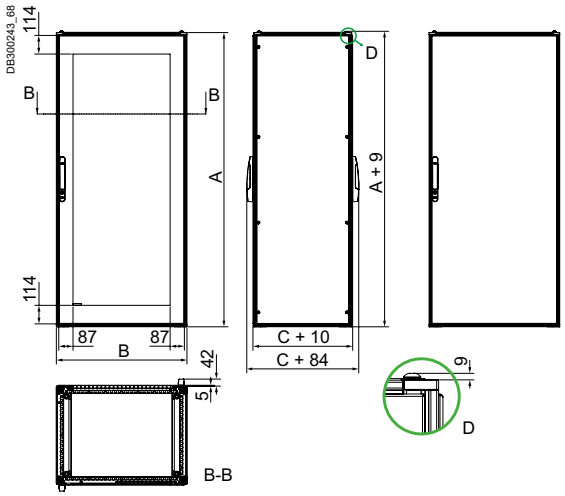
For any information, refer to Thermal Management chapter, see page 397.

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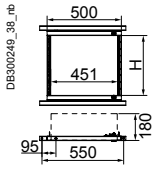
PanelSeT SFN IT: Floor-Standing Enclosures for IT

Dimensions

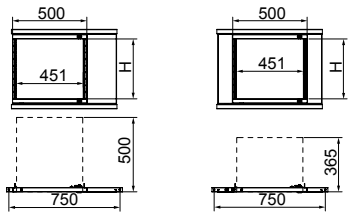
PanelSeT SFN 19" Electronic Enclosure



Partial 19" Swing Rack for 600 and 800 mm Enclosures

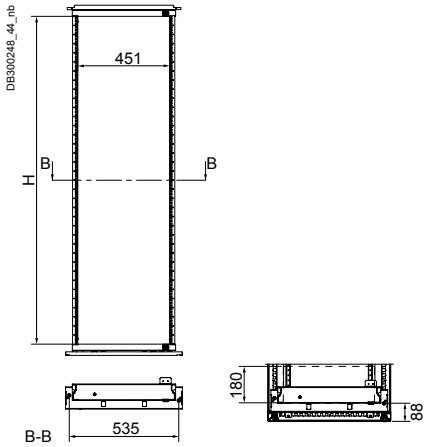


Partial 19" Swing Rack for Enclosures with a Width of 600 mm

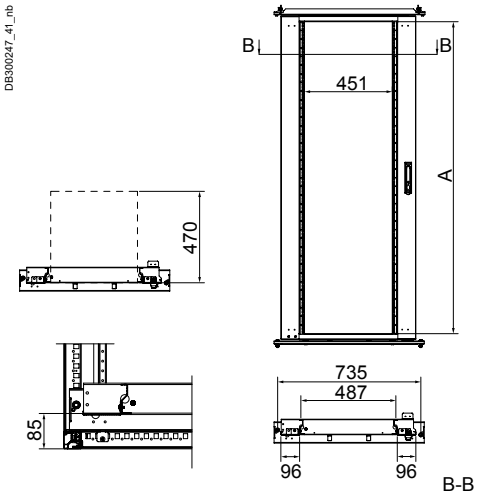


Partial 19" Swing Rack, Off-Centered, Centered, for Enclosures with a Width of 800 mm

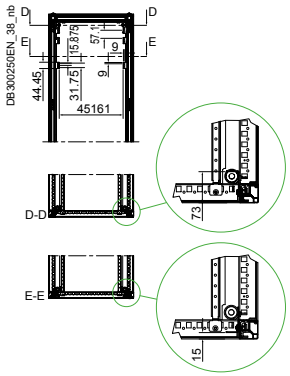
19" Swing Rack for 600 mm Enclosures



19" Swing Racks for 800 mm Enclosures



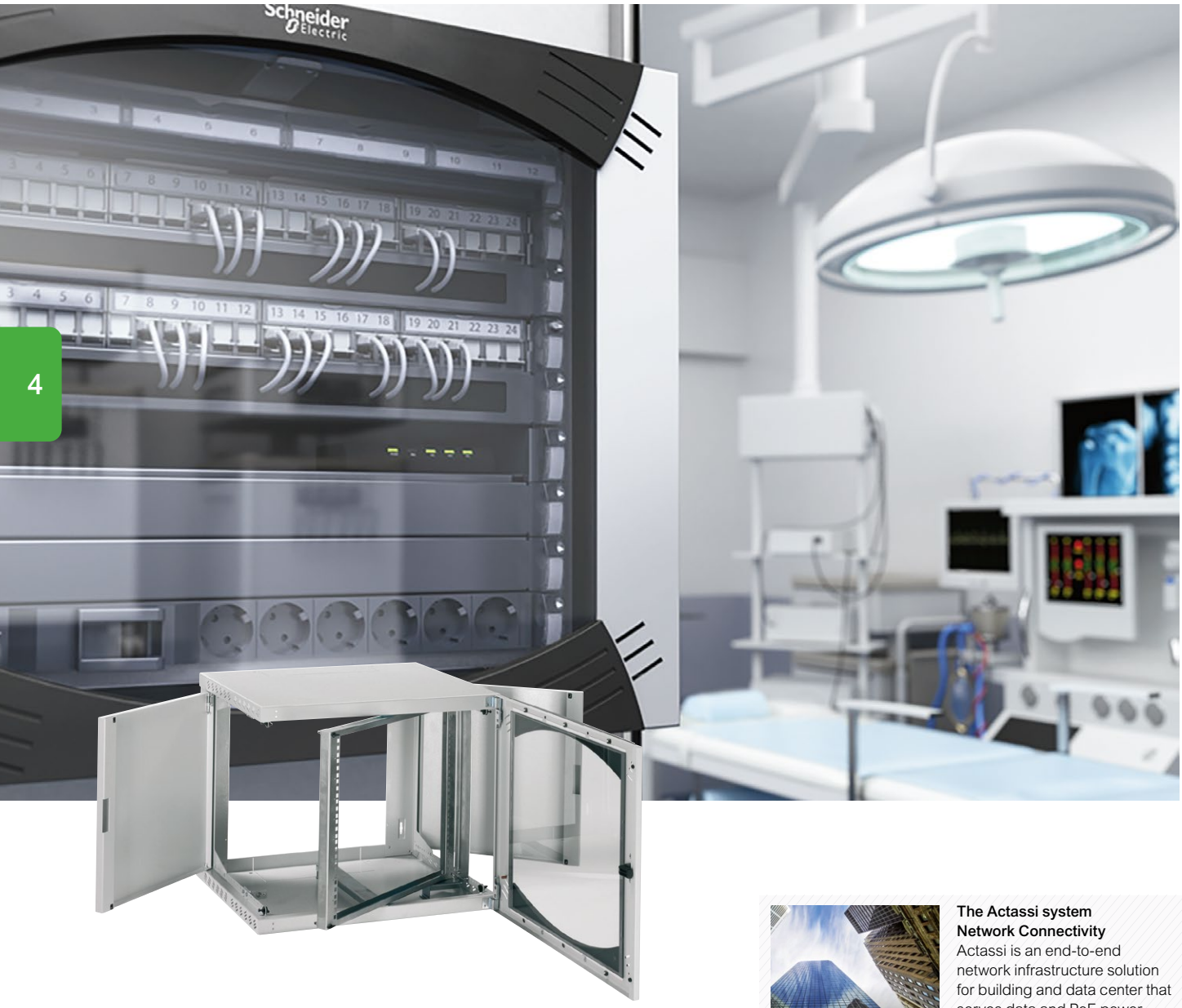
1 U / 3 U Support



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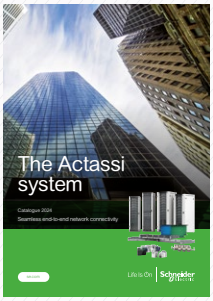
Actassi OPB and KDB

Introduction



Introducing Actassi OPB and KDB wall-mounted enclosures, designed for seamless integration of network connectivity and optimum protection of data and telecom networks.

KDB and OPB enclosures are an integral part of the Actassi system, and can be fully equipped with patch panels, cables, switches and DVRs.



The Actassi system
Network Connectivity
Actassi is an end-to-end network infrastructure solution for building and data center that serves data and PoE power, and that optimizes the network infrastructure operating costs as part of the Schneider Electric's Collaborative Smart Building IoT Platform.

Ref of the 2024 catalogue :
Ref : LSB02659EN

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Actassi OPB: Open Box



Easy to Install
The Actassi OPB enclosure can be wall-mounted by a single person using the fixing points intended for the passage of holding screw heads into the wall



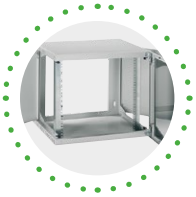
Ergonomics
The side panels swing through 120° and can be easily removed without tools. Rear access is easy. Door easily removable without tools



Easy to Cable
The cable entries, top or bottom, are pre-cut and open into the rear of the Actassi OPB enclosure. The enclosure fits around those cables that are already in place (rear blanking plate optional)



Adaptable
The 19" uprights are designed to be depth-adjustable with a step of 25 mm. Their fixing with screws helps guaranteeing the rigidity of the Actassi OPB enclosure

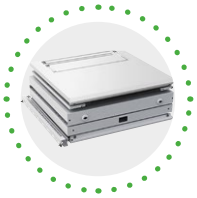


Easy to Install and to Reverse
Its drilling template on the packaging and its 4 wall-mounted points enable quick and efficient installation while helping guarantee reversibility by simply turning the enclosure around

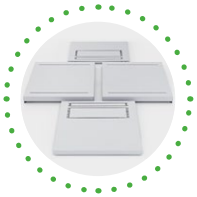


Ergonomics
The side panels are locked from the inside by two 1/4-turn nuts, accessible only when the door is open

Actassi KDB: Knock Down Box



Easy to Stock and Ship
The flat-pack architecture of KDB enclosure helps saving 60% of space in the stock. It is also very easy to ship and carry



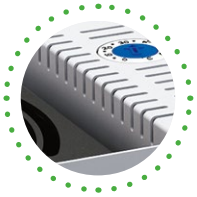
Easy to Assemble
The symmetric construction of the top, bottom and side panels gives easy and helps assembling



Easy to Use
Tool-less door with spring hinges facilitates the access to the patch panels



Easy Cable Management (Option)
Use the 19” brush panel to easily manage the entry of cables supress into the top and bottom



Smart Airing (Option)
Helps protecting the installed components like switches and PABX. Use the 19” smart fan plates equipped with a thermostat adjustable from 0 °C to 55 °C



Easy to Adapt
If you need more space at the front of the enclosure, you can easily move the 19” uprights each 25 mm



OPB: assembled at delivery, ready to use.
KDB: quick and easy to mount.



OPB: parts can be removed without tools.
KDB: easy to assemble.
1 tool needed.



OPB: body allows mounting of components up to 50 kg.
KDB: body allows mounting of components up to 40 kg.

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Actassi OPB: Open Box

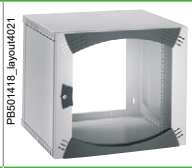
Characteristics

Open for Easy Installation and Maintenance
Introduction and Selection Guides

- Wall-mounted enclosure made from folded and welded sheet steel, powder paint, leather-grain finish, RAL 7035 light gray epoxy-polyester
- Enclosure made up of a body, 2 hinged and removable side panels, a 19" swing rack and a Securit® glass transparent door with key no. 333
- Protection rating: IP20 according to IEC 60529
- Impact Protection: IK08 according to IEC 62262
- Available enclosures:
  - 5 heights: 6, 9, 12, 15, 18U
  - 3 depths: 400, 500 and 600 mm
- Swing rack: acceptable load of 25 kg (Include 25% of margin load rating according to IEC 62208)
- Certifications: in compliance with directive RoHs, with 19" standard IEC 60297-3-100 and EIA-310-E.



Installed enclosures









Number of U	Dimensions (mm)			Enclosure references Swing rack	Blanking plate	Cable-gland plate with brush gasket	Blanking plate with 2 fans, cannot be used directly with UK PDU
	Height	Width	Depth				
6	380	600	400	-	**NSYOPB6UTPN**		
6	380	600	500	-	**NSYOPB6UTPN**		
9	515	600	400	-	**NSYOPB9UTPN**		
9	515	600	500	**NSYOPB9U5P**	**NSYOPB9UTPN**		
12	650	600	500	**NSYOPB12U5P**	**NSYOPB12UTPN**	**NSYECP300**	**NSYECVT300**
12	650	600	600	**NSYOPB12U6P**	**NSYOPB12UTPN**		
15	780	600	500	-	**NSYOPB15UTPN**		
15	780	600	600	-	**NSYOPB15UTPN**		
18	915	600	500	**NSYOPB18U5P**	**NSYOPB18UTPN**		

Total accessibility with the swing rack and the swingable and removable side panels and door.

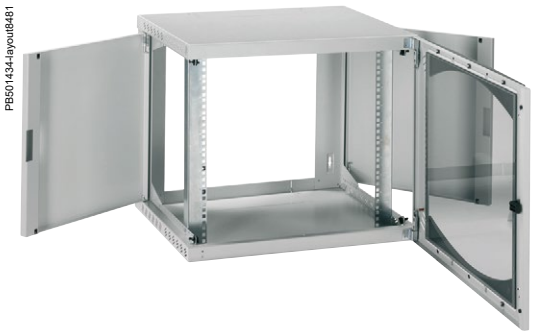
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Actassi OPB: Open Box

Characteristics

Ergonomic and Adaptable
Introduction and Selection Guides

- Wall-mounted enclosure made from folded and welded sheet steel, powder paint, leather-grain finish, RAL 7035 light gray epoxy-polyester
- Enclosure made up of a body, 2 hinged and removable side panels, 19" fixed uprights and a Securit® glass transparent door or plain sheet steel door with key no. 333
- Protection rating: IP20 according to IEC 60529
- Impact Protection: IK08 according to IEC 62262 (for glazed door)
- Impact Protection: IK10 according to IEC 62262 (for plain door)
- Available enclosures:
  - 6 heights: 6, 9, 12, 15, 18, 21U
  - 3 depths: 400, 500 and 600 mm
- Fixed 19" rack. Acceptable load: 3 kg/U; max. 50 kg per enclosure (Include 25% of margin load rating according to IEC 62208)
- Certifications: in compliance with directive RoHs, with 19" standard IEC 60297-3-100 and EIA-310-E.



Installed enclosures









Number of U	Dimensions (mm)			Enclosure references Fixed rack	Blanking plate	Cable-gland plate with brush gasket	Blanking plate with 2 fans, cannot be used directly with UK PDU
	Height	Width	Depth				
6	380	600	400	**NSYOPB6U4F**	**NSYOPB6UTPN**		
6	380	600	500	**NSYOPB6U5F**	**NSYOPB6UTPN**		
9	515	600	400	**NSYOPB9U4F**	**NSYOPB9UTPN**		
9	515	600	500	**NSYOPB9U5F**	**NSYOPB9UTPN**		
9	515	600	600	**NSYOPB9U6F**	**NSYOPB9UTPN**		
12	650	600	400	**NSYOPB12U4F**	**NSYOPB12UTPN**		
12	650	600	500	**NSYOPB12U5F**	**NSYOPB12UTPN**		
12	650	600	600	**NSYOPB12U6F**	**NSYOPB12UTPN**	**NSYECP300**	**NSYECVT300**
15	780	600	400	**NSYOPB15U4F**	**NSYOPB15UTPN**		
15	780	600	500	**NSYOPB15U5F**	**NSYOPB15UTPN**		
15	780	600	600	**NSYOPB15U6F**	**NSYOPB15UTPN**		
18	915	600	400	**NSYOPB18U4F**	**NSYOPB18UTPN**		
18	915	600	500	**NSYOPB18U5F**	**NSYOPB18UTPN**		
21	1050	600	500	**NSYOPB21U5F**	**NSYOPB21UTPN**		
21	1050	600	600	**NSYOPB21U6F**	**NSYOPB21UTPN**		

Enclosure with plain door







Number of U	Dimensions (mm)			Enclosure reference	Blanking plate	Blanking plate with 2 fans, cannot be used directly with UK PDU
	Height	Width	Depth			
9	515	600	400	**NSYOPB9U4FR**	**NSYOPB9UTPN**	
12	650	600	400	**NSYOPB12U4FR**	**NSYOPB12UTPN**	**NSYECVT300**
15	780	600	500	**NSYOPB15U5FR**	**NSYOPB15UTPN**	
18	915	600	500	**NSYOPB18U5FR**	**NSYOPB18UTPN**	

2U extra space "for free", 1U in the top and 1U in the bottom. Can be used for example for power rails.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Actassi OPB: Open Box

Characteristics

19" Wall-Mounted Open Box with Swing Rack

- Wall-mounted enclosure made from folded and welded sheet steel, powder paint, leather-grain finish, RAL 7035 light gray epoxy-polyester
- Enclosure made up of a body, 2 hinged and removable side panels, a 19" swing rack and a Securit® glass transparent door with key no. 333
- Protection rating: IP20 according IEC 60529
- Impact Protection: IK08 according to IEC 62262

Available enclosures:
- 5 heights: 6, 9, 12, 15, 18U
- 3 depths: 400, 500 and 600 mm

- Swing rack: acceptable load of 25 kg (Include 25% of margin load rating according to IEC 62208)
- Certifications: in compliance with directive RoHs, with 19" standard IEC 60297-3-100 and EIA-310-E.

Cable-gland plate with brush gasket, ref. **NSYECP300**, see page 327
Blanking plate with 2 fans, cannot be used directly with UK PDU, ref. **NSYECVT300**, see page 327


NSYOPB6U4P

Characteristics	Number of U	Height (mm)	Width (mm)	Depth (mm)	References
19" Wall-Mounted Open Box with swing rack, glazed door	9	515	600	500	**NSYOPB9U5P**
19" Wall-Mounted Open Box with swing rack, glazed door	12	650	600	500	**NSYOPB12U5P**
19" Wall-Mounted Open Box with swing rack, glazed door	12	650	600	600	**NSYOPB12U6P**
19" Wall-Mounted Open Box with swing rack, glazed door	18	915	600	500	**NSYOPB18U5P**

19" Wall-Mounted Open Box with Fixed Rack

- Wall-mounted enclosure made from folded and welded sheet steel, powder paint, leather-grain finish, RAL 7035 light gray epoxy-polyester
- Enclosure made up of a body, 2 hinged and removable side panels, 19" fixed uprights and a Securit® glass transparent door or plain sheet steel door with key no. 333
- Protection rating: IP20 according IEC 60529
- Impact Protection: IK08 according to IEC 62262 (for glazed door)
- Impact Protection: IK10 according to IEC 62262 (for plain door)

Available enclosures:
- 6 heights: 6, 9, 12, 15, 18, 21U
- 3 depths: 400, 500 and 600 mm

- Fixed 19" rack. Acceptable load: 3 kg/U; max. 50 kg per enclosure (Include 25% of margin load rating according to IEC 62208)
- Certifications: in compliance with directive RoHs, with the 19" standard IEC 60297-3-100 and EIA-310-E.

Cable-gland plate with brush gasket, ref. **NSYECP300**, see page 327
Blanking plate with 2 fans, cannot be used directly with UK PDU, ref. **NSYECVT300**, see page 327


NSYOPB6U4F

Characteristics	Number of U	Height (mm)	Width (mm)	Depth (mm)	References
19" Wall-Mounted Open Box with fixed rack, glazed door	6	380	600	400	**NSYOPB6U4F**
19" Wall-Mounted Open Box with fixed rack, glazed door	6	380	600	500	**NSYOPB6U5F**
19" Wall-Mounted Open Box with fixed rack, glazed door	9	515	600	400	**NSYOPB9U4F**
19" Wall-Mounted Open Box with fixed rack, glazed door	9	515	600	500	**NSYOPB9U5F**
19" Wall-Mounted Open Box with fixed rack, glazed door	9	515	600	600	**NSYOPB9U6F**
19" Wall-Mounted Open Box with fixed rack, glazed door	12	650	600	400	**NSYOPB12U4F**
19" Wall-Mounted Open Box with fixed rack, glazed door	12	650	600	500	**NSYOPB12U5F**
19" Wall-Mounted Open Box with fixed rack, glazed door	12	650	600	600	**NSYOPB12U6F**
19" Wall-Mounted Open Box with fixed rack, glazed door	15	780	600	400	**NSYOPB15U4F**
19" Wall-Mounted Open Box with fixed rack, glazed door	15	780	600	500	**NSYOPB15U5F**
19" Wall-Mounted Open Box with fixed rack, glazed door	15	780	600	600	**NSYOPB15U6F**
19" Wall-Mounted Open Box with fixed rack, glazed door	18	915	600	400	**NSYOPB18U4F**
19" Wall-Mounted Open Box with fixed rack, glazed door	18	915	600	500	**NSYOPB18U5F**
19" Wall-Mounted Open Box with fixed rack, glazed door	21	1050	600	500	**NSYOPB21U5F**
19" Wall-Mounted Open Box with fixed rack, glazed door	21	1050	600	600	**NSYOPB21U6F**

Enclosure with Plain Door

Blanking plate with 2 fans, cannot be used directly with UK PDU, ref. **NSYECVT300**, see page 327


NSYOPB9U4FR

Characteristics	Number of U	Height (mm)	Width (mm)	Depth (mm)	References
19" Wall-Mounted Open Box with fixed rack, plain door	9	515	600	400	**NSYOPB9U4FR**
19" Wall-Mounted Open Box with fixed rack, plain door	12	650	600	400	**NSYOPB12U4FR**
19" Wall-Mounted Open Box with fixed rack, plain door	15	780	600	500	**NSYOPB15U5FR**
19" Wall-Mounted Open Box with fixed rack, plain door	18	915	600	500	**NSYOPB18U5FR**

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Rear Blanking Plate

- Blanking plate made from sheet steel, powder paint, leather-grain finish, RAL 7035 light gray epoxy-polyester

Supply:
Delivered with the fixings required for installation


NSYOPB6UTPN

Characteristics	Number of U	References
Rear blanking plate	6	**NSYOPB6UTPN**
Rear blanking plate	9	**NSYOPB9UTPN**
Rear blanking plate	12	**NSYOPB12UTPN**
Rear blanking plate	15	**NSYOPB15UTPN**
Rear blanking plate	18	**NSYOPB18UTPN**
Rear blanking plate	21	**NSYOPB21UTPN**

Additional 19" Uprights

- Material: zinc-coated sheet steel, 20/10 mm thick
- Maximum load: 3 kg/U; max. 50 kg per enclosure
- Unit marking.

Supply:
Set of two 19" uprights delivered with the fixings required for installation


NSYOPB6UF

Characteristics	Number of U	References
Additional 19" uprights	6	**NSYOPB6UF**
Additional 19" uprights	9	**NSYOPB9UF**
Additional 19" uprights	12	**NSYOPB12UF**
Additional 19" uprights	15	**NSYOPB15UF**
Additional 19" uprights	18	**NSYOPB18UF**
Additional 19" uprights	21	**NSYOPB21UF**

Blanking Plate with Brush Gasket

- Fixing to the top or bottom openings of the enclosures
- Material: zinc-coated steel sheet

Supply:
Delivered with the fixings required for installation.


NSYECP300

Characteristics	Dimensions (mm)	References
Blanking plate with brush gasket	35 x 300	**NSYECP300**

Total Brush Gasket

- It is fixed to the top and bottom cable entries.


NSYECPT300

Characteristics	Dimensions (mm)	References
Total brush gasket	100 x 300	**NSYECPT300**

Top or Bottom Blanking Plate with 2 Fans

- 2 fans installed and wired to on the terminal block, including a protection grille.
- A power supply cable of 2 m in length is supplied connected
- Free flow of 35 m³/h each
- Fixing to the top or bottom openings of the enclosures
- Material: zinc-coated sheet steel
- Delivered with the fixings required for installation
- Sound level: 35 dB (A)
- Cannot be used directly with UK PDU.

Supply:
Delivered with the fixings required for installation.


NSYECVT300

Characteristics	References
Top or bottom blanking plate with 2 fans	**NSYECVT300**

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Actassi OPB: Open Box

Accessories

Levelling Feet

- Require drilling of the enclosure at the knock-out point for direct installation
- Set of 4 parts.

Supply:
Delivered with the fixings required for installation.


NSYPNOPB

Characteristics	References
Levelling feet	**NSYPNOPB**

Wheels

- Require drilling of the enclosure at the knock-out point for direct installation
- Installation possible on the plinth
- Set of 4 parts.

Supply:
Delivered with the fixings required for installation.


NSYRUFOPB

Characteristics	References
Wheels	**NSYRUFOPB**

Brush Gasket for the Cable Entries through the Plinth

- It is fixed to the knock-out areas for the cable entries
- Delivery as a unit.


NSYJPSVD

Characteristics	Entry width (mm)	References
Brush gasket for the cable entries through the plinth	75 x 400	**NSYJPSVD**

Earthing Kit for Actassi OPB

- To earth all the covering components.


NSYCTOPB

Characteristics	References
Earthing kit for Actassi OPB	**NSYCTOPB**

4

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19" Wall Knock-Down Box Simple and Space-Saving

P133084_layout_698_nb



60%

The Flat-Pack Helps Saving up to 60% of Space in the Stock.

Introduction and Selection Guidess

- Flat-pack wall-mounted enclosure dismounted in 1 package
- Symmetric enclosure made from welded sheet steel, powder-painted, leather-grain finish, RAL 7035 light gray epoxy-polyester
- Enclosure made up of a body, one pair of 19" fixed uprights and a Securit® glass transparent door with key no. 333
- Top and bottom 19" knock-down plates for entry cables and fans – 0U
- Protection rating: IP20 according to IEC 60529
- Impact Protection: IK08 according to IEC 62262
- Acceptable load: 3 kg/U; max. 40 kg per enclosure
- (Include 25% of margin load rating according to IEC 62208)
- Certifications: in compliance with directive RoHs, with 19" standard IEC 60297-3-100 and EIA-310-E
- Brush entry cables NSYCRTM1U1PS (in option)

Flat-pack enclosures

P133087_layout_686_nb



P131660_layout_712_nb



Number of U	Dimensions (mm)			Enclosure reference	Brush entry cables
	Height	Width	Depth		
6	352	600	400	**NSYKDB6U4F**	**NSYCRTM1U1PS**
9	485	600	400	**NSYKDB9U4F**	
12	618	600	400	**NSYKDB12U6F**	
15	752	600	400	**NSYKDB15U6F**	

Accessories

Cables for Smart and Basic Fan Plates

- Black power cables of 3 m to power the fan plates.



NSYIEC13SCH



NSYIEC13IEC14

Characteristics	Plug Out	Plug In	References
Cables for smart and basic fan plates	IEC C13	Schuko/FR	**NSYIEC13SCH**
Cables for smart and basic fan plates	IEC C13	IEC C14	**NSYIEC13IEC14**

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Specific Applications

Severe Outdoor

Panel**SeT** PHD: Polyester

NSYPHDZT774



Panel**SeT** S3HD - SFN HD: Outdoor Coated Steel

NSYSFNHD20860



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** PHD: Polyester

Introduction	**332**
Characteristics	**335**
Accessories	**338**
Certifications	**342**

Panel**SeT** S3HD - SFN HD: Outdoor Coated Steel

Introduction	**332**
Characteristics	**336**
Accessories	**340**
Certifications	**342**

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PanelSeT PHD - S3HD - SFN HD

Introduction



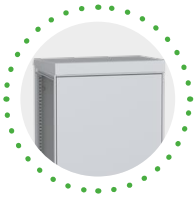
PanelSeT PHD enclosures are suitable for outdoor public areas thanks to their multiple features:
- mechanical strength (IEC 61439-5.2023),
- anti-posting surface thanks to the special ribbed door surface,
- insulated (ready for Class II according to IEC 61439-1: 2011).

Our enclosures are reinforced and designed to withstand harsh outdoor conditions. PanelSeT SFN HD and S3HD made of coated steel are suited for installation in private areas due to their exceptional resistance to corrosion (up to C4H level according to ISO 12944:2018) and UV protection.

PanelSeT PHD, a Class II polyester cabinet, is designed for installation in public spaces, offering high resistance to pressure and impact, along with an anti-posting coating.

NOTICE
POSSIBLE AESTHETICS CHANGES OF ENCLOSURE SURFACE For long exposure applications, use painted enclosures available through the customized offer, to protect from UV radiation, wind and rain. **Failure to follow these instructions can result in equipment damage.**

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Fully Equipped
Standard, pre-installed equipment includes:
- A canopy to avoid water stagnation
- An aluminum cable gland plate to easily drill holes and avoid corrosion
- A document pocket to hold your documents in a practical place



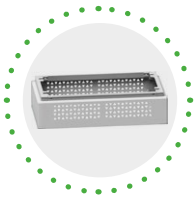
Anti-Vandalism Feature
- PHD and SFN HD: handle with keylock and additional padlock hole (padlock not included) as a standard accessory to help protect the equipment



High Resistance
- PHD: Heavy-duty polyester reinforced with a double layer of fiberglass



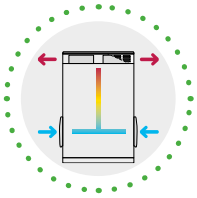
Upper Airing
- The newly engineered roof airing accessory
- Prevents condensation (one of the causes of corrosion)



Heavy-Duty Accessories
- Dedicated accessories to resist harsh outdoor environments



Simplified Installation
- Easy lifting even when loaded with up to 1000 kg of equipment
- HD lifting accessories also available

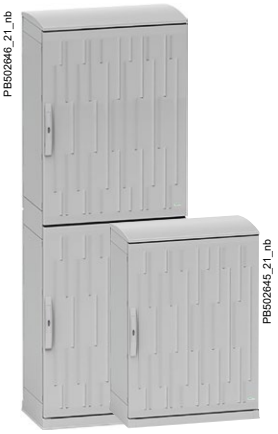


Thermal Management Solutions
- 3 airing architectures help protecting the equipment installed inside from overheating and humidity

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT PHD - S3HD - SFN HD

Characteristics

Characteristics	Wall-mounted enclosure	Floor-standing enclosure	Wall-mounted enclosure	Floor-standing enclosure
According to Reach and RoHs & Halogen-free	 PB502649_30	 PB502646_21_nb PB502645_21_nb	 PB502653_21_nb	 NSYSFN+HD20860
	Polyester outdoor Heavy-Duty enclosures		Steel outdoor Heavy-Duty enclosures	
	Outdoor Heavy-Duty (HD) enclosures made of polyester insulated material. Offer multiple features suitable for outdoor public spaces: • High pressure and shock resistance • Posting-deterrent for floor standing • Enhanced insulation.		Outdoor Heavy-Duty (HD) enclosures made of coated steel. Offer multiple features suitable for private areas with harsh environments: • High resistance to corrosion (up to C4H level according ISO 12944:2018) • High resistance to UV.	
Material	HD Polyester reinforced with fiberglass to meet standard EN 439-5		HD steel with anti-corrosive painting	
Finish	-		Structured finish, 100% polyester powder	
Color	RAL 7035 gray		RAL 7035 gray	
Conditions of use	Outdoor and/or harsh environments		Outdoor and/or harsh environments	
Temperature range	-40...80 °C		-40...80 °C	
Ingress protection rating	IP65 according to IEC 60529	IP55 according to IEC 60529	IP66 according to IEC 60529	IP55 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262		IK10 according to IEC 62262	
Standards	IEC 61439-5, IEC 62208, IEC 61439-1 (Class II insulation), IEC 60297-3-100		IEC 61439-5, IEC 62208, IEC 60297-3-100, ISO 12944-6 (C4H)	
Certifications	See table page 342		See table page 342	
Fixing	On wall by means of optional wall fixing accessory	Option for installation on floor	• On wall by means of optional stainless-steel wall fixing lugs • On post by means of optional HD post fixing device	• Directly on floor by means of plinth (see page 534)
Maximum load according to IEC 62208	500 kg (depends on the size of the enclosure)		200 kg (depends on the size of the enclosure)	1312 kg (1168 kg lifting) (depends on the size of the enclosure)
Other characteristics	• Fire resistance according to EN 1794-2 • Lifting possible from top with eyebolt accessory • New dedicated airing solutions to be integrated in roof, lateral or plinth. 3 airing architectures proposed (see page 424 and 425)		New dedicated airing solutions to be integrated in roof, side or plinth	
Options	Plain door	Plain or ribbed door	-	
Supply	• Curved canopy • Handle with keylock (1242E type) and padlock • Door retainer • Plastic document pocket (A4 size)	• Curved canopy • Integrated plinth • Handle with keylock (1242E type) and padlock • Aluminum cable gland plate • Door retainer • Plastic document pocket (A4 size)	• Curved canopy • 3-mm double-bar lock • Plastic document pocket (A4 size) • Door retainer • Aluminum cable gland plate	• Canopy • Rear panel • Handle with keylock (1242E type) and padlock • Aluminum cable gland plate

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester Outdoor Heavy-Duty Enclosures

- Outdoor Heavy-Duty (HD) enclosures made of polyester insulated material. Offer multiple features suitable for public spaces: high resistance to pressure and shocks, posting deterrence, and high insulation.
- Material: HD Polyester reinforced with fiberglass to meet standard EN 439-5
- Color: RAL 7035 gray
- Conditions of use: Outdoor and/or harsh environments
- Temperature range: -40...80 °C
- Mechanical protection rating: IK10 according to IEC 62262
- Standards: IEC 61439-5, IEC 62208, IEC 61439-1 (Class II insulation), IEC 60297-3-100

Certifications: See table page 342

- Maximum load according to IEC 62208: 500 kg
- Other characteristics: Fire resistance according to EN 1794-2, Lifting possible from top with eyebolt accessory, new dedicated airing solutions to be integrated in roof, lateral or plinth.
  3 airing architectures proposed (see page 424 and 425)
- Options: Plain door or ribbed door for polyester floor standing enclosure

Wall-Mounted Enclosure

PB502649_30



NSYPHDT553P

- Ingress protection rating: IP65 according to IEC 60529
- Fixing: On wall by means of optional wall fixing accessory

Supply:
Curved canopy
Handle with keylock (1242E type) and padlock
Door retainer
Plastic document pocket (A4 size)

Characteristics	Door type	Number of doors	Dimensions (H x W x D)	References
Wall-mounted enclosure	Plain	1	538 x 500 x 320	**NSYPHDT553P**
Wall-mounted enclosure	Plain	1	788 x 500 x 320	**NSYPHDT753P**

Floor-Standing Enclosure

- Ingress protection rating: IP55 according to IEC 60529
- Fixing: 2 options for installation on floor:
- With floor fixing kit **NSYMF2PLAZ4** or **NSYMF2PLAZ6** for integrated plinth (50 mm)
- With additional ZZ plinths available as accessory (200 mm) (see page 536)

Supply:
Curved canopy
Integrated plinth
Handle with keylock (1242E type) and padlock
Aluminum cable gland plate
Door retainer
Plastic document pocket (A4 size)



NSYPHDZT774



NSYPHDZT774P

Characteristics	Door type	Number of doors	Dimensions (H x W x D)	References
Floor-standing enclosure	Anti-posting	1	843 x 750 x 420	**NSYPHDZT774**
Floor-standing enclosure	Anti-posting	1	843 x 750 x 620	**NSYPHDZT776**
Floor-standing enclosure	Anti-posting	1	1093 x 500 x 420	**NSYPHDZT1054**
Floor-standing enclosure	Anti-posting	1	1093 x 750 x 420	**NSYPHDZT1074**
Floor-standing enclosure	Anti-posting	1	1343 x 500 x 420	**NSYPHDZT1254**
Floor-standing enclosure	Anti-posting	1	1343 x 750 x 420	**NSYPHDZT1274**
Floor-standing enclosure	Anti-posting	1	1343 x 750 x 620	**NSYPHDZT1276**
Floor-standing enclosure	Anti-posting	2	1343 x 1250 x 420	**NSYPHDZT12124**
Floor-standing enclosure	Anti-posting	2	1343 x 1250 x 620	**NSYPHDZT12126**
Floor-standing enclosure	Anti-posting	1	1593 x 750 x 420	**NSYPHDZT1574**
Floor-standing enclosure	Anti-posting	1	1593 x 750 x 620	**NSYPHDZT1576**
Floor-standing enclosure	Anti-posting	2	1593 x 1250 x 420	**NSYPHDZT15124**
Floor-standing enclosure	Anti-posting	2	1593 x 1250 x 620	**NSYPHDZT15126**
Floor-standing enclosure	Anti-posting	2 Vertical	2093 x 750 x 420	**NSYPHDZT2074**
Floor-standing enclosure	Plain	1	843 x 750 x 420	**NSYPHDZT774P**
Floor-standing enclosure	Plain	1	843 x 750 x 620	**NSYPHDZT776P**
Floor-standing enclosure	Plain	1	1093 x 500 x 420	**NSYPHDZT1054P**
Floor-standing enclosure	Plain	1	1093 x 750 x 420	**NSYPHDZT1074P**
Floor-standing enclosure	Plain	1	1343 x 500 x 420	**NSYPHDZT1254P**
Floor-standing enclosure	Plain	1	1343 x 750 x 420	**NSYPHDZT1274P**
Floor-standing enclosure	Plain	1	1343 x 750 x 620	**NSYPHDZT1276P**
Floor-standing enclosure	Plain	2	1343 x 1250 x 420	**NSYPHDZT12124P**
Floor-standing enclosure	Plain	2	1343 x 1250 x 620	**NSYPHDZT12126P**
Floor-standing enclosure	Plain	1	1593 x 750 x 420	**NSYPHDZT1574P**
Floor-standing enclosure	Plain	1	1593 x 750 x 620	**NSYPHDZT1576P**
Floor-standing enclosure	Plain	2	1593 x 1250 x 420	**NSYPHDZT15124P**
Floor-standing enclosure	Plain	2	1593 x 1250 x 620	**NSYPHDZT15126P**
Floor-standing enclosure	Plain	2 Vertical	2093 x 750 x 420	**NSYPHDZT2074P**

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PanelSeT S3HD - SFN HD: Outdoor Coated Steel

Characteristics

Steel Outdoor HD Enclosures

- Outdoor Heavy-Duty (HD) enclosures made of coated steel.
- Offer multiple features suitable for private areas with harsh environments: high resistance to corrosion (up to C4H level according ISO 12944) and to UV
- Material: HD steel with anti-corrosive painting
- Finish: Structured finish, 100% polyester powder
- Color: RAL 7035 gray
- Conditions of use: Outdoor and/or harsh environments
- Temperature range: -40...80 °C
- Mechanical protection rating: IK10 according to IEC 62262
- Standards: IEC 61439-5, IEC 62208, IEC 60297-3-100, ISO 12.944 (C4H)
- Certifications: See table page 342
- Other characteristics: New dedicated airing solutions to be integrated in roof, side or plinth

Supply:
Canopy
Aluminum cable gland plate

Wall-Mounted Enclosure

- Ingress protection rating: IP66 according to IEC 60529
- Fixing: On wall by means of optional stainless-steel wall fixing lugs, on post by means of optional HD post fixing device
- Maximum load according to IEC 62208: 200 kg
- cUL according to 508A CSA C.22.2 N° 14 .
- Environmental rating according UL50E 4, 4x and 13

Supply:
3-mm double-bar lock


NSYS3HD3215

Characteristics	Dimensions (H x W x D)	References
Wall-mounted enclosure	343 x 200 x 180	**NSYS3HD3215**
Wall-mounted enclosure	448 x 300 x 230	**NSYS3HD4320**
Wall-mounted enclosure	548 x 400 x 230	**NSYS3HD5420**
Wall-mounted enclosure	653 x 400 x 280	**NSYS3HD6425**
Wall-mounted enclosure	658 x 600 x 330	**NSYS3HD6630**
Wall-mounted enclosure	753 x 500 x 280	**NSYS3HD7525**
Wall-mounted enclosure	858 x 600 x 330	**NSYS3HD8630**
Wall-mounted enclosure	862 x 800 x 430	**NSYS3HD8840**
Wall-mounted enclosure	1062 x 600 x 430	**NSYS3HD10640**
Wall-mounted enclosure	1062 x 800 x 430	**NSYS3HD10840**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT S3HD - SFN HD: Outdoor Coated Steel

Characteristics

Floor-Standing Enclosure

- Ingress protection rating: IP55 according to IEC 60529
- Fixing: Directly on floor by means of optional plinth
- Maximum load according to IEC 62208: 1312 kg (1168 kg lifting) (depends on the size of the enclosure)
- Coupling SFN HD is possible using standard coupling kit
- If ordered assembled from our service there are length limitations (consult us)
- cUL according to UL508a
- Environmental ratings according to UL50E,12 and 3R

Supply:
Rear panel
Handle with keylock (1242E type)



NSYSFNHD20860

Characteristics	Dimensions (H x W x D)	References
Floor-standing enclosure SFN	1800 x 600 x 400	**NSYSFNHD18640**
Floor-standing enclosure SFN	1800 x 800 x 400	**NSYSFNHD18840**
Floor-standing enclosure SFN	1800 x 800 x 600	**NSYSFNHD18860**
Floor-standing enclosure SFN	1800 x 800 x 800	**NSYSFNHD18880**
Floor-standing enclosure SFN	2000 x 600 x 600	**NSYSFNHD20660**
Floor-standing enclosure SFN	2000 x 800 x 400	**NSYSFNHD20840**
Floor-standing enclosure SFN	2000 x 800 x 600	**NSYSFNHD20860**

Side Panel Internal Fixing



NSY2SPINHD184

Characteristics	Dimensions (mm)	References
SFN HD 2 side panels int. fix.	1800 x 400	**NSY2SPINHD184**
SFN HD 2 side panels int. fix.	1800 x 600	**NSY2SPINHD186**
SFN HD 2 side panels int. fix.	1800 x 800	**NSY2SPINHD188**
SFN HD 2 side panels int. fix.	2000 x 400	**NSY2SPINHD204**
SFN HD 2 side panels int. fix.	2000 x 600	**NSY2SPINHD206**

Upper Ventilated Module



NSYSFNCVR64HD

Characteristics	Dimensions (mm)	References
SFN HD upper ventilated module	600 x 400	**NSYSFNCVR64HD**
SFN HD upper ventilated module	600 x 600	**NSYSFNCVR66HD**
SFN HD upper ventilated module	800 x 400	**NSYSFNCVR84HD**
SFN HD upper ventilated module	800 x 600	**NSYSFNCVR86HD**
SFN HD upper ventilated module	800 x 800	**NSYSFNCVR88HD**

Coupling

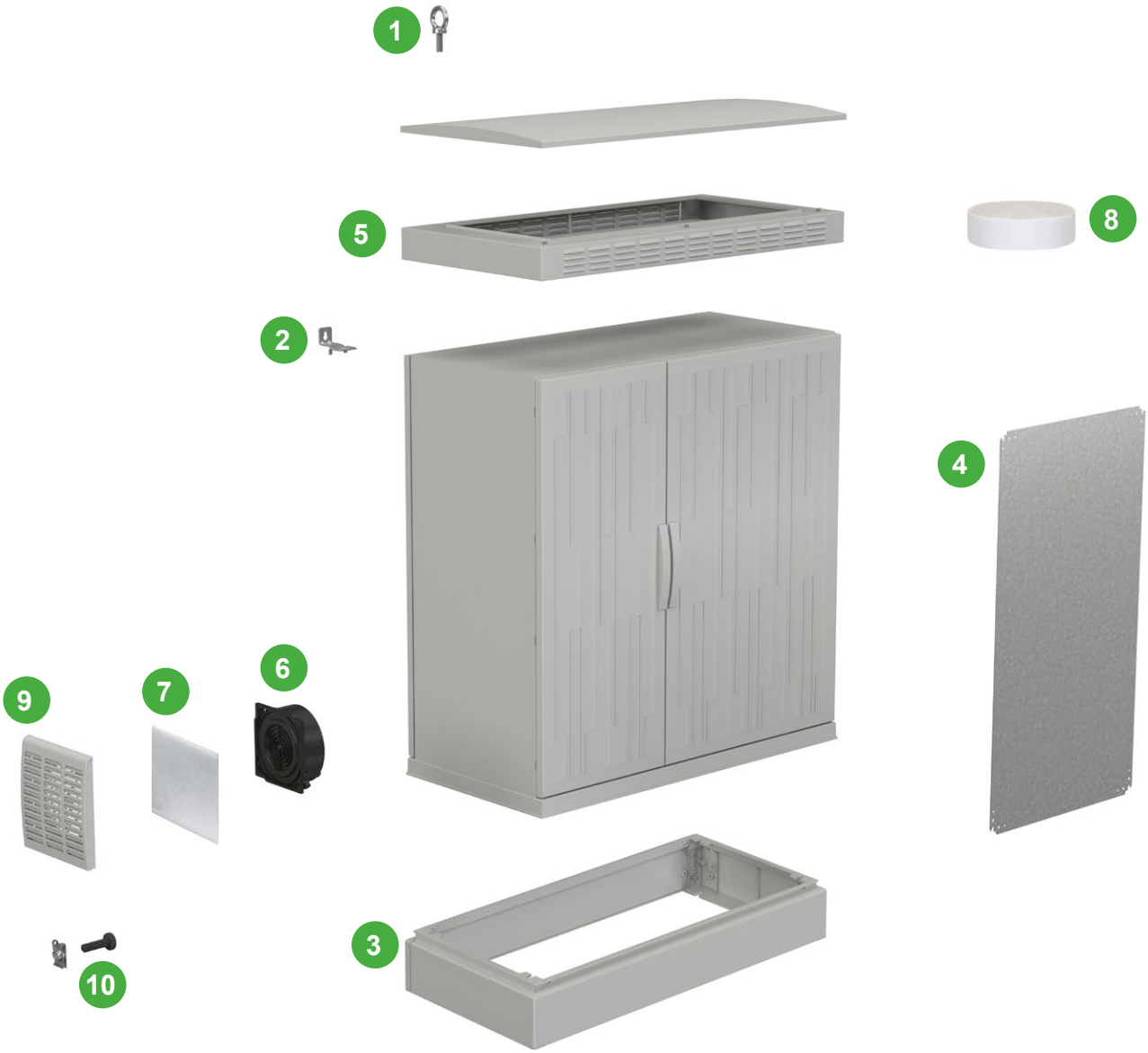


- Coupling SFN HD is possible using standard coupling kit. Each enclosure with its own canopy.
- If ordered assembled from our factory, there are length limitations due to transport (consult us).

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT PHD: Polyester

Accessories



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fixing Accessories

1



Eyebolts

See details p. 524

2



Wall fixing accessory

See details p. 523

3

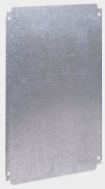


Cables entries

See details p. 553

Mounting

4



Plain mounting plates

See details p. 484

Airing System

5



Roof airing module

See details p. 593

6



Fanbox

See details p. 426

7



Filter

See details p. 426

8



Roof filter for fanbox

See details p. 426

9



IP55 HD metal grid

See details p. 426

10



Anti-vandalism kit for HD metal grid

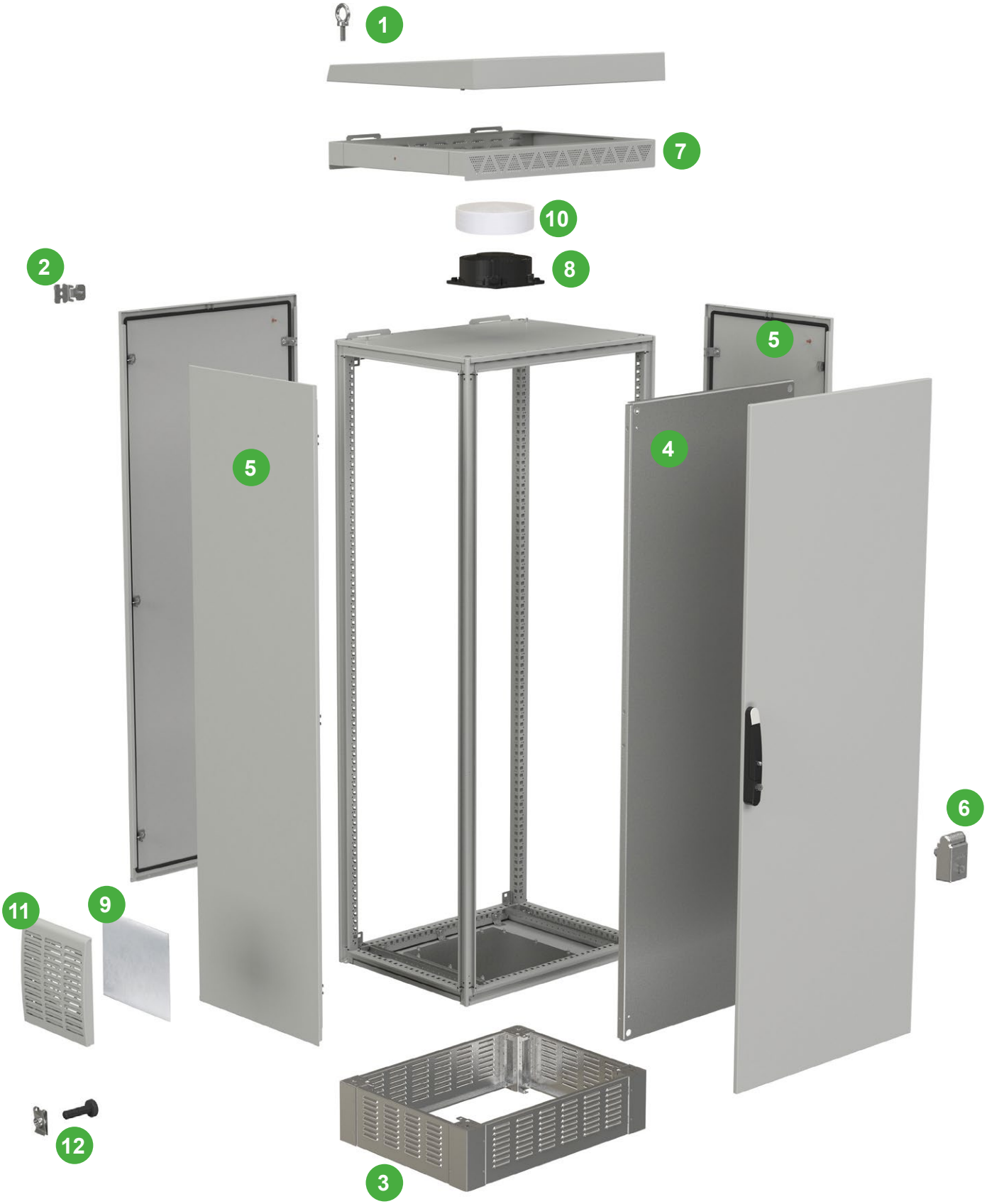
See details p. 426

> For more information consult the Accessories chapter **page 472**

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PanelSeT S3HD - SFN HD: Outdoor Coated Steel

Accessories



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PanelSeT S3HD - SFN HD: Outdoor Coated Steel

Accessories

Fixing Accessories

1  Eyebolts

See details p. 524

2  Wall fixing accessory

See details p. 522

3  Ventilated plinths

See details p. 534

Mounting Accessories

4  Plain mounting plates

See details p. 480

5  Side panels

See details p. 337

Locking Accesories

6  Heavy-duty padlockable double lock

See details p. 574

Airing Accessories

7  Roof airing module

See details p. 337

8  Fanbox

See details p. 426

9  Filter

See details p. 426

10  Roof filter for fanbox

See details p. 426

11  IP55 HD metal grid

See details p. 426

12  Vandalism kit for HD metal grid

See details p. 426

> For more information consult the Accessories chapter **page 472**

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PanelSeT PHD - S3HD - SFN HD

Certifications

Test description	Standard	Standard title	Certification	Declaration
POLYESTER PanelSeT PHD				
IP55, IK10, lifting: 500 kg max. (IP65 for wall-mounted)	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Class II Insulation	IEC 61439-1: 2011	Low-voltage switchgear and controlgear assemblies Part 1: General rules	-	✓
Mechanical strength	IEC 61439-5:2023	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H. It affects the painted accessories (ventilated roof, anti-burglary kit). All other metal parts have special treatment to pass the same test.	ISO 12944-6:2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	-	✓
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: Basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Fire resistance	EN 1794-2:2011	Vandalism: Fire resistance	-	✓
Posting	Internal test	Door anti-posting internal test	-	✓
Single-door: types 1, 2, 3, 3R, 4, 4X, 5, 12 and 13 Double-door: types 1, 2, 3, 3R, 5, 12 and 13	UL 508 A CSA c.22.2 No 14	Standard for Industrial Control Panels. Standard for Industrial Control Equipment.	●	-
PanelSeT SFN HD (floor-standing enclosures)				
IP55, IK10, lifting: 1312 kg (1168 kg lifting) for the larger size	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Mechanical strength	IEC 61439-5:2023	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12944-6:2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: Basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single-door: Types 1, 3R, 12	UL 508 A CSA C.22 No 14-18 UL50E	Standard for Industrial Control Panels. Standard for Industrial Control Equipment.	●	-
PanelSeT S3HD (wall-mounted enclosures)				
IP66, IK10, lifting: 200 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Mechanical strength	IEC 61439-5:2023	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12944-6:2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: Laboratory performance testing methods	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: Basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single-door: Types 1, 2, 3, 3R, 4, 4X. 5, 12 and 13	UL 508 A: 2007 CSA c.22.2 No 14	Standard for Industrial Control Panels. Standard for Industrial Control Equipment.	●	-

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Certifications

Test description	Standard	Standard title	Certification	Declaration
HD ACCESSORIES HD THERMAL Management, Fanbox				
NSYCVF Series are intended for mounting on the flat surface of a Type 12 or 12K enclosure	UL 508A CAN/CSA-C22.2 No. 14, CAN/CSA C22.2 No. 94-M91 CAN/CSA C22.2 No. 73	Industrial Control Panels Industrial Control Equipment Special Purpose Enclosures Electrically Equipped Machine Tools	●	-
IP55 HD Metal grille (NSYCAG223LFHD)				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance C4H	ISO 12.944: 2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: Laboratory performance testing methods	●	-
Anti-vandalism kit for HD metal grille (NSYCAAPVHD)				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
Upper airing module (PHD / SFN HD / S3HD)				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)		✓
Corrosion resistance at level C4H	ISO 12.944: 2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: Laboratory performance testing methods	●	-
HD POLYESTER ENCLOSURES				
Corrosion resistance at level C4H	ISO 12.944: 2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: Laboratory performance testing methods	●	-
ZZ plinths (NSYZZ•••)				
ZZ Plinth: IP44 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Eyebolts (NSYPLHD)				
Maximum load 500 kg	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	-	✓
HD STEEL ENCLOSURES **Stainless-steel plinths (NSYSPFVX••• / NSYSPLVX••• / NSYSPSX••• / NSYSPSX•••)**				
Ventilated plinth: IP20 (in conditions of use) Standard plinth: IP30 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓

For Information on Airing Architecture, check ClimaSys chapter, see page 424.

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Specific Applications

Seismic Environments

Panel**SeT** S3D: Wall-Mounted Enclosures

PB502933_56_nb



PB502934_58_nb



Panel**SeT** SFN 6G: Floor-Standing Enclosures

NSYSFN6G20860



Panel**SeT** SFN 3G: Floor-Standing Enclosures

NSYSFN20860



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Panel**SeT** S3D: Wall-Mounted Enclosures

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Panel**SeT** SFN 6G: Floor-Standing Enclosures

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Panel**SeT** SFN 3G: Floor-Standing Enclosures

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PrismaSeT HD	368

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Panel**SeT** S3D: Wall-Mounted Enclosures

Introduction





The Panel**SeT** S3D 6G wall-mounted enclosure, designed for seismic applications, this robust and reliable solution help ensuring the safety and protection of electrical components in demanding environments.
Its steel construction with a 2 mm thickness for both the body and the door, this enclosure features a solid door with reinforced full frame, helping to secure installation. The earth continuity between the body and the door, along with a 3-point locking system using key 405E, provides added security.
Coated with epoxy-polyester powder color gray (RAL 7035), help providing durability and aesthetic appeal.
Compliant with standards such as IEC 62208 and featuring IP65 protection and IK10 impact resistance, this enclosure is designed to perform reliably in challenging conditions.

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PanelSeT S3D: Wall-Mounted Enclosures

Introduction



Strength

Panel thickness:

- Casing + door: 20/10 mm
- Entry flange: 15/10 mm



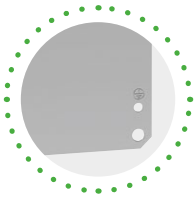
Security Locking System

- 1242E locking system with captive key
- Door not reversible, opening in opposite direction available on demand



Optional on Request

- Continuity of masses between interior and exterior by 2 studs welded opposite each other



Reinforced Mounting Plate

- Mounting plate reinforcement
- Increased number of attachment points



Wall-Mounted

- Reinforced bracket for wall-mounted



Decontaminable Smooth Paint PID 100 Series

- Complies with CCTR 91.C.031.08 Double layer of paint (minimum thickness: 60 µ)
- PIA/PIB/PID and PIC REP 100
- Powder system according to FNP 1125

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Panel**SeT** S3D: Wall-Mounted Enclosures

Characteristics

Panel**SeT** S3D 6G Solutions for Seismic Risks

- Seismic applications up to UBC zone 4.
- Material: Steel
- Color: RAL 7035
- Ingress protection rating: IP65 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262
- Maximum load: 80 kg/m² on plain mounting plate, uprights
- Standards:
  - Enclosure standard: IEC 62208
  - Seismic standards: IEC 60068-2-57, IEC 60068-3-3 and CRT 91 C 112 01 - EDF
  - Recommended for UBC zone 4 (this is a widely used Building code despite not being in force)
- Certifications: 6G certification as per CRT 91-C-112-00 (EDF)

Supply:

Body

- Monobloc casing (cross structure). Gutter-shaped front profile. Flat back
- M6 x 16 earthing screws and earth strap for equipotential connection between the enclosure door and casing
- Entry flange

Door

- Plain door with handle equipped with 405 key
  - H < 600: 1 fastening point
  - H ≥ 600: 3 fastening points
- Non-reversible door (for reversibility, please contact us)
- M6 x 16 earthing screws and earth strap for equipotential connection between the enclosure door and casing
- 120° door opening

Mounting plate

- Mounting plate galvanized before mounting
- Maximum load: 80 kg/m²
- Two wall-mounted brackets



NSYS3D6G32515P

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
PanelSeT S3D seismic plain door with mount.plate	300	250	150	**NSYS3D6G32515P**
PanelSeT S3D seismic plain door with mount.plate	400	300	200	**NSYS3D6G4320P**
PanelSeT S3D seismic plain door with mount.plate	700	500	250	**NSYS3D6G7525P**
PanelSeT S3D seismic plain door with mount.plate	800	600	300	**NSYS3D6G8630P**
PanelSeT S3D seismic plain door with mount.plate	1200	800	400	**NSYS3D6G12840P**

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Table of Compatibility of Accessories in 6G Seismic S3D Enclosures

Accessories		Compatibility	Comments	Trade references impacted
 ISPA011_010_43_nb	**Door switch**	**Limited**	**Conditions: Drilling by customization department to be provided for**	**NSYINLCRN**
 PB500083_29_nb	**Diagram holder**	**Yes**	**-**	**NSYDPA●●**
 PB500338_24_nb	**Lifting rings**	**Limited**	**Conditions: Drilling by customization department to be provided for**	**NSYAELYTCRG8**

Comment: None of the accessories is certified 6G.

Locks for Enclosure

- < H 600
- With captive key.
- Material: Zamak lock and metal cam
- For door with hinges on the right side, not reversible, opening in opposite direction available on demand

Supply:
1- or 3-point lock with 1 lock button and 1 cremone screw


NSYAEDLEDF9K31

Characteristics	Key lock	References
Lock for enclosure	EDF 900	**NSYAEDLEDF9K31**
Lock for enclosure	EDF 1300	**NSYAEDLEDF13K31**
Lock for enclosure	EDF 1400	**NSYAEDLEDF14K31**
Lock for enclosure	1242E	**NSYAEDL1242K31**
Lock for enclosure	405E	**NSYAEDL405K31**
Lock for enclosure	455E	**NSYAEDL455K31**

Locks for Enclosure

- > H 600
- With captive key.
- Material: Polyamide handle, metal connecting rods and cam
- For door with hinges on the right side, not reversible, opening in opposite direction available on demand

Supply:
3-point lock with 1 lock button and 1 cremone screw


NSYAEDLEDF9K33

Characteristics	Key lock	References
Lock for enclosure	EDF 900	**NSYAEDLEDF9K33**
Lock for enclosure	EDF 1300	**NSYAEDLEDF13K33**
Lock for enclosure	EDF 1400	**NSYAEDLEDF14K33**
Lock for enclosure	1242E	**NSYAEDL1242K33**
Lock for enclosure	405E	**NSYAEDL405K33**
Lock for enclosure	455E	**NSYAEDL455K33**

Padlocking Lug

- Securing of enclosure access.
- Material: White galvanized steel


NSYAEDLPADS3DK3

Characteristics	References
Padlocking lug	**NSYAEDLPADS3DK3**

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PanelSeT S3D: Wall-Mounted Enclosures

Dimensions

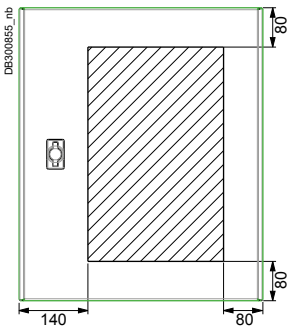
Special Dimensions

Height	Width					
	250	300	400	500	600	800
1200	-	-	-	-	200/250/300/400	200/250/300/400
1000	-	-	-	-	200/250/300/400	200/250/300/400
800	-	-	200/250/300	200/250/300	200/250/400	200/250/300
700	-	-	200/250/300	200/300	200/250/300/400	-
500	200	150/200/250	200/250/300	200/250/300	-	-
400	150/200	150/250	-	-	-	-
300	150/200	150/200/250	-	-	-	-

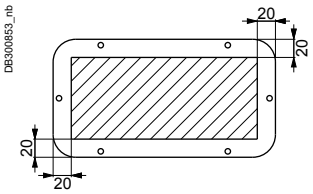
Cut-Outs

Customization Areas

Door

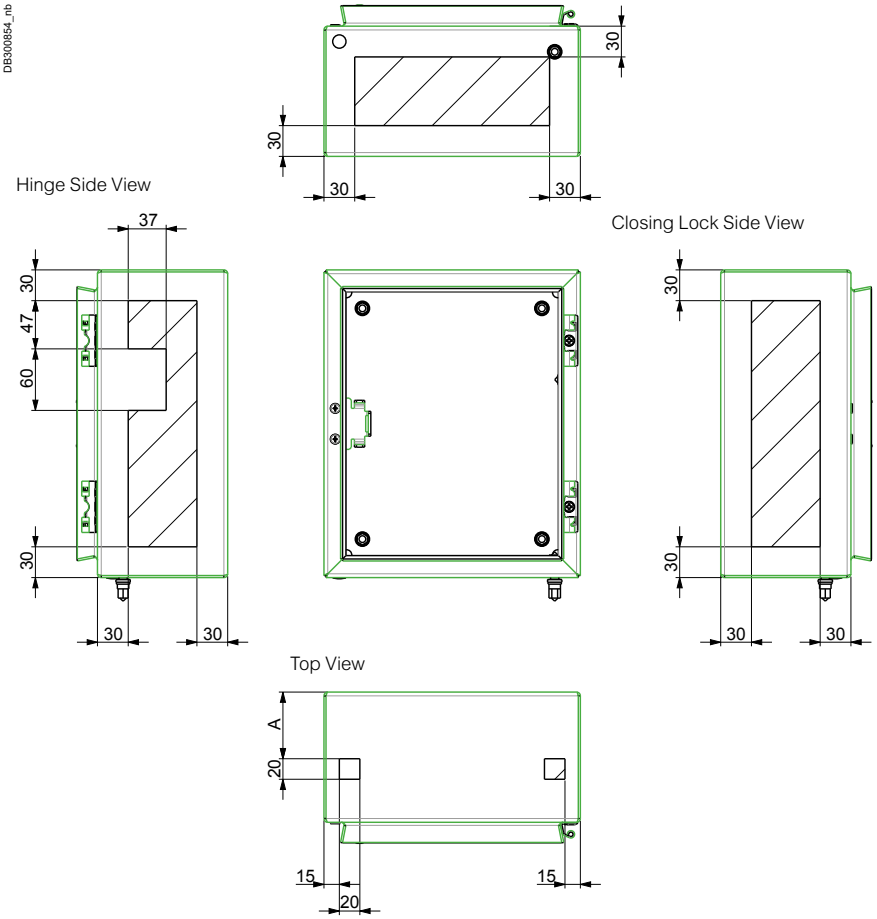


Entry Flange



Depth	A
150	65
200	82
250	98
300	115
400	148

Casing



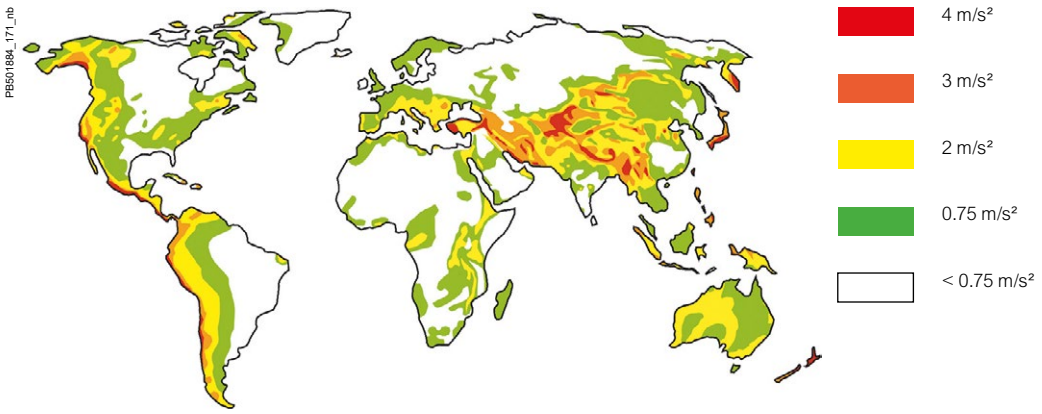
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PanelSeT SFN 6G and 3G

General Information

Earthquakes are highly specialized phenomena that demand expert-level understanding. The following two pages will provide an overview of seismic topics



4

Seismic risk is worldwide. Maps that describe the maximum ground accelerations with a low probability to be exceeded in a specific time interval, are available to illustrate it. Ground accelerations are therefore basic data that can be used to compare risks by localizations.
Each project must check at the localization installation of their building if specific design requirements for seismic withstand must be implemented. All countries close to faults should be specially checked.

Earthquakes are events that can cause a lot of structural damage so building have to be designed to withstand those constraints.
Inside those building are our electrical equipment which are considered as nonstructural devices. According to the level of criticity of those equipment those nonstructural devices must be able to withstand mechanically and sometimes functionally the seismic waves transmitted by the ground to the building to its anchoring points.

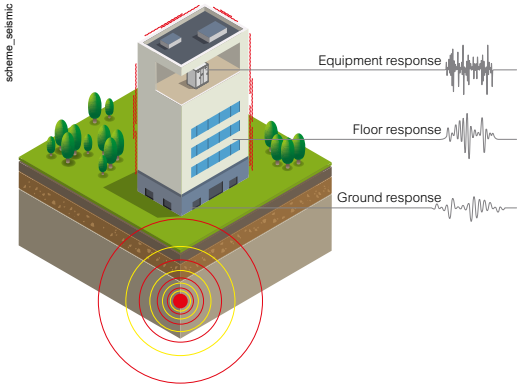
In specific building such as data centers, power plants, nuclear plant… it is often mandatory that electrical enclosures will be able to function after earthquake without causing damage to people and without needing to be replaced.

The seismic level an electrical enclosure has to withstand is not directly the ground acceleration as the building will affect the seismic waves transmitted to the equipment. The point within the earth where an earthquake rupture starts is the focus or hypocenter. From this point the seismic waves is transmitted.

To define the seismic resistance of equipment, it is necessary to take into account the geological characteristics of the ground and the behavior of the building and compare these with the equipment's seismic performances.

Each country/region has their own standards that are different enough to the extent that it is not straightforward to compare them. Those standard mainly focus more on building than electrical installation. Moreover, the location and the building where the electrical enclosures are installed can also impact the seismic level the enclosures has to withstand.

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Geology Equivalence between scales characterizing the earthquake		
MSK	**Richter**	**IEC 60068-3-3 (ground acc.)**
<VIII	< 5.5	2 m/s²
VIII to IX	≥ 5.5 and ≤ 7	3 m/s²
>IX	> 7	5 m/s²

Definitions

- **MSK scale:** is a measure of the size of the earthquake based on the effects it produces on people, objects, buildings, nature and terrain.
  For example, considering damage to buildings:
  - Grade VII: Some buildings with metal or concrete structures suffer light damage.
  - Grade X: Many buildings with metal or concrete structures suffer destruction and some collapse.
- **Richter scale:** It represents the seismic energy released in each earthquake and is based on the seismographic record. It is a scale that grows in a potential or semi-logarithmic manner, so that each point increase can mean an increase in energy ten or more times greater.
  - Between 3.5 and 5.4, it is an earthquake that is often felt, but only causes minor damage.
  - Between 7.0 and 7.9, it is a major earthquake that causes serious damage.

The same earthquake will have a different value according to the MSK scale depending on the place it affects due to the different seismic resistance of its constructions, but it will have the same value according to the Richter scale.

- **Ground acceleration:** Acceleration resulting from an earthquake.
  Note: In practice, ground acceleration can be broken down into horizontal and vertical components.
- **Floor acceleration:** Acceleration measured on a particular floor in a building (at the location of an equipment item).
  Note: In practice, floor acceleration can be broken down into horizontal and vertical components.
- **Equipment acceleration:** Acceleration resulting at the anchoring points of an equipment.
- **Building codes level:** set of regulations and requirement that lead structural design and calculation methods for building.

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Panel**SeT** SFN 6G: Floor-Standing Enclosures

Introduction



SFN tested for Nuclear application:
- Enclosure designed to be installed in zone under critical seismic level
- Recommended for UBC zone 4 (this is a widely used building code despite not being in force)
- PanelSeT SFN 6G have been tested with a plain mounting plate and PanelSeT SFN 6G IT with 19 inches fix upright.

PanelSeT SFN 6G and PanelSeT SFN 6G IT have been tested to the standards:
- IEC 60068-2-57
- IEC 60068-3-3
- CRT 91 C 112 01 - EDF

Tested seismic level:
- 6G CRT EDF (tested Zero Period Acceleration at twice the value required CRT 91 C 112 01 - EDF _ Nuclear application
- Air Crash Test (5g Zero Period Acceleration), according to CRT 91 C 112 01 - EDF method, 4 seconds and triaxial test

Description:
- Integrated plinth 100mm
- Material: Steel
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262
- UL50E types 1, 12
- Maximum load: 130 kg in Panel**SeT** SFN 6G (depends on the size), 140 kg in Panel**SeT** SFN 6G IT (depends on the size)

Note: nuclear application sequence is 5 times 50% final seismic levels and once full seismic level.

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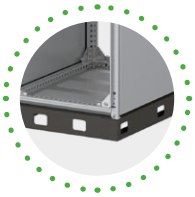
PanelSeT SFN 6G: Floor-Standing Enclosures

Introduction



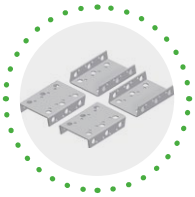
Panels with reinforced fixations

- 12 fastening points by M6 screws per panel



Reinforced Plinths

- 100 mm height
- Floor fixing: minimum 6 fastening points by M12 screws
- Fixing from inside and outside the enclosure



Coupling kit tested

- Coupling kit to allow coupling of SFN, choices of sizes in table 1



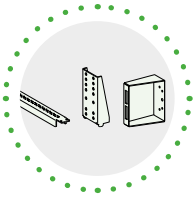
Security locking system

- Seismic locking system
- Special connecting rods and handle to help prevent any accidental door opening under severe vibration conditions



Reinforcement corners

- To strengthen the enclosure and respond to seismic risks
- To strengthen fastening of the side panels and rear panel
- To fasten the door connecting rods



19 inches kit

- Set to install 19 inches uprights
- Available for width 600 and 800
- Available Height see table 3

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Panel**SeT** SFN 6G: Floor-Standing Enclosures

Characteristics



NSYSF6G20680

Supply:
Catalog sizes available : Ht 2000 W 800 D600
(other sizes available on demand see sizes table 1)
- Color: RAL 7035
- Plinth Color: RAL 7022

Composed of:
- Framework
  - 4 uprights
  - 1 lower frame
  - 1 upperframe with roof
- 1 rear panel
- 8 multi-purpose reinforcement corners
- 8 cross-rails fastened to the framework contributing to the seismic resistance (3 left, 3 right, 2 rear)
- Monobloc Plinth 4 mm thick 100 mm high
- Door
  - Plain door with handle with 405 key lock (other lock available)
  - 3 fastening points with connecting rods
  - Door hinges on right, door not reversible (opposite direction available on request)
- 3 parts gland plate

Kit
- Mounting plate reinforcement kit or 19 inches reinforcement kit (Mounting plate nor 19 inches uprigths not included)

Coupling
- Option to couple SFN 6G enclosures with the coupling kits reference: **NSYSFBKR** and **NSYSFBK19**

Aesthetic
- Trim cap for 6 G panel fixing screws

Panel**SeT** SFN 6G for device installation on mounting plate (recommended sizes for nuclear application)

Description	Dimensions (mm)	References	Mounting plate	Reinforcement kit for mounting plate	Heavy cross rail
SFN 6G	2000 x 800 x 600	**NSYSFN6G20860**	**NSYMP208**	**NSYSFPB6G**	**NSYHLCR60**
SFN 6G	2000 x 600 x 800	Available on demand			
SFN 6G	2000 x 800 x 800	Available on demand			

Panel**SeT** SFN 6G IT and server application (19 in)

Description	Dimensions (mm)	References	Vertical upright	Reinforcement kit for 19 inches
SFN 6G IT width 800	2000 x 800 x 600	**NSYSFN6G20860**	**NSYRCK42** (x2)	**NSYRCK19KITN6G**
SFN 6G IT width 600	2000 x 600 x 800	Available on demand	**NSYRCK42** (x2)	**NSYRCK19KIT6G**

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PanelSeT SFN 6G: Floor-Standing Enclosures

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN 6G: Floor-Standing Enclosures

Accessories



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Mounting Accessories

1



Side panels

See details p. 360

2



Mounting plates

See details p. 360

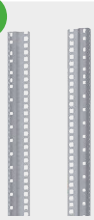
3



Rails for heavy load

See details p. 360

4

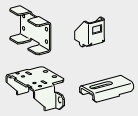


19” fixes uprights

See details p. 361

Other Accessories

5



Reinforced fixing kit for mounting plate

See details p. 360

6



Trim cap for panels

See details p. 360

7



Optional locks

See details p. 361

> For more information consult the Accessories chapter **page 472**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Panel**SeT** SFN 6G: Floor-Standing Enclosures

Accessories

Panel**SeT** SFN 6G for Seismic Risks

Side Panels


NSY6G2SP204

- Material: Steel
- Installation: 12 fastening points

Supply:
2 side panels and fasteners

Characteristics	Height (mm)	Depth (mm)	References
Side panel	2000	600	**NSY6G2SPN206**

Mounting Plate

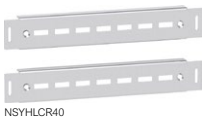

NSYMP206

- Material: Galvanized steel
- Installation: Mounting plate to be installed with **NSYSFPB6G** fastening kit + **NSYHLCR●●** cross-rails

Supply:
1 mounting plate and sliding shoes

Characteristics	Height of the enclosure (mm)	Width of the enclosure (mm)	Height (mm)	Depth (mm)	References
Mounting plate	2000	800	1897	696	**NSYMP208**

Rails for Heavy Load

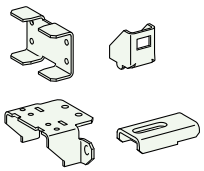

NSYHLCR40

- Material: Zinc-coated steel

Supply:
2 cross-rails and fixing elements

Characteristics	Depth (mm)	References
Rails for heavy load	600	**NSYHLCR60**

Reinforced Fixing Kit for Mounting Plate


NSYSFPB6G

- Material: Steel

Supply:
6 anti-vibration supports
4 mounting brackets
4 supports
2 connectors and fixing elements

Characteristics	References
Reinforced fixing kit for mounting plate	**NSYSFPB6G**

Trim Cap for SF 6G Panels


NSYCSP6G

- Material: Plastic

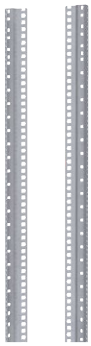
Supply:
50 units

Characteristics	References
Trim cap for SF 6G panels	**NSYCSP6G**

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PanelSeT SFN 19 inches width 800

19" Fixed Uprights



NSYRCK42

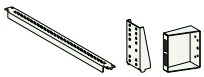
- Uprigth designed to be assembled on enclosures 800 width (width 600 on demand).
- Material: Zinc-coated steel
- Fixing: To fasten the 19" uprights
- It is necessary to use the fixing kit **NSYRCK19KITN6G**

Note:
For a 19" seismic configuration, 4 uprights must be used

Supply:
2 uprights and fasteners,

Characteristics	References
19" fixed uprights	**NSYRCK42**

Uprights Fixing Kit



NSYRCK19KIT6G

- Material: Steel

Supply:
4 cross-rails
8 fastening brackets
12 reinforcements
Fixing elements

Characteristics	References
6G upright´s fixing kit for width 800	**NSYRCK19KITN6G**
6G upright´s fixing kit for width 600 (enclosure on demand)	**NSYRCK19KIT6G**

Optional Locks for Enclosure



NSYAEDLEDF9K33

- With captive key.
- Material: Polyamide handle, metal connecting rods and cam
- For door with hinges on the right, for opening opposite available on demand

Supply:
3-point lock with
1 lock button and
1 cremone screw

Characteristics	References
Optional lock for enclosure, EDF 900	**NSYAEDLEDF9K33**
Optional lock for enclosure, EDF 1300	**NSYAEDLEDF13K33**
Optional lock for enclosure, EDF 1400	**NSYAEDLEDF14K33**
Optional lock for enclosure, 1242E	**NSYAEDL1242K33**
Optional lock for enclosure, 405E	**NSYAEDL405K33**
Optional lock for enclosure, 455E	**NSYAEDL455K33**

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PanelSeT SFN 6G: Floor-Standing Enclosures

Dimensions

SFN possible sizes for Nuclear application

Indication of sizes with maximum weight installed:

- Fixation to the floor with conical washer and large flat washer
- Load evenly distributed on the plate with center of gravuty at the middle height of the cabinet

Dimensions (mm)		Width						
Height	Depth	300	400	500	600	700	800	1000
1200	400							
	500							
	600				75	75	75	
	800				75	75	75	
	1000							
1400	400							
	500							
	600				90	90	90	
	800				90	90	90	
	1000							
1600	400							
	500							
	600				100	100	100	
	800				100	100	100	
	1000							
1800	400							
	500							
	600				115	115	115	
	800				115	115	115	
	1000							
2000	400							
	500							
	600				130	130	130	
	800				130	130	130	
	1000							
2200	400							
	500							
	600				130	130	130	
	800				130	130	130	
	1000							

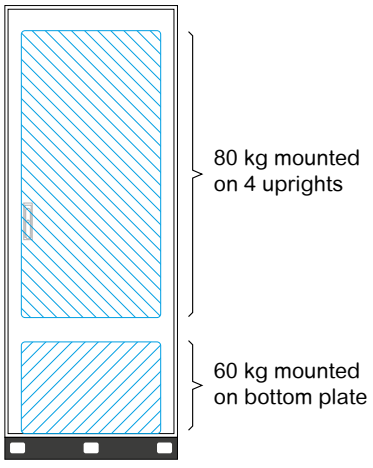
Size on demand for single enclosure

Size on demand for coupling
Minimum foot print of coupled enclosures: 600 x 600

Not covered

SFN IT: Table of size validated for 6G performance with installed weight of 140 kg as picture underneath.

Dimensions (mm)		Width	
Height	Depth	600	800
1200	600	100	120
	800	100	120
1800	600	140	140
	800	140	140
2000	600	140	140
	800	140	140
	1000		



- Fixing to the floor with conical washer and large flat washer.
- 60 kg on the base and the rest of the racks screwed into the 4 profiles.
- Total weight of racks with center of gravity at half height.
- Minimum 4 racks with maximum weight per rack of 20 kg.
  If less, trays screwed to the 4 profiles must be put in place, until the minimum of 4.

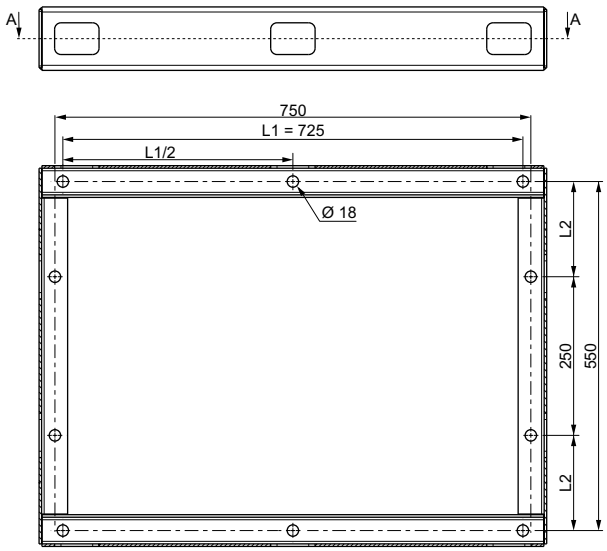
Distribution of maximum weights for the case of 140 kg.
For the rest of the cases:

- 120 kg: 60 kg on racks + 60 kg on the base
- 120 kg: 40 kg on racks + 60 kg on the base

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Technical information

Floors fixing dimensions



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT SFN 3G: Floor-Standing Enclosures

Characteristics

SFN for Low to Medium Seismic Level

Tests performed on SFN offer



The offer PanelSeT SFN have been tested to the Standard :
- IEC 60068-2-57
- IEC 60068-3-3

Tested seismic level for equipment :
- 2G level with (0.65 g Zero Period Acceleration)
- 2.5G level with (0.85 g Zero Period Acceleration)
- 3G Schneider Electric level with (1.2 g Zero Period Acceleration)

We have 4 categories of PanelSeT offers with 3G performances:
- SFN 3G
- SFN 3G reinforced
- SFN IT 3G
- PrismaSeT HD 3G

SFN 3G for device installation on mounting plate



To build a SFN in conformity to seismic performances it is necessary to use the following elements.

Composition:
- SFN standard enclosures, size to choose within the table 1 or 2
- Plinth ht 100 mm
- 4 screws M12 x 30 mm for fixation between structure and plinth in addition to the standard fixations

Table 1: SFN one door
Table 2: SFN 2 doors

To increase the weight installed, use the 3G reinforcement kit and 2 heavy cross rails NSYHLCR•••.
(••• according to depth of the enclosure)

Description	Reference
Reinforcement kit for 3G performance for SFN with mounting plate	**NSYSFNRB3G**

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PanelSeT SFN 3G: Floor-Standing Enclosures

Dimensions

Schneider goes beyond the basic mechanical strength of the enclosure and protects the devices installed inside it.

During an earthquake that can apply a 3G acceleration to the enclosure, the acceleration on the mounting plate and therefore on the devices mounted on it can greatly exceeds the 3G value, so Schneider uses two strategies to limit this amplification of the acceleration:

- Reduce the permissible load on the mounting plate
- Consider a higher permissible load by installing the reinforcement kit which, by securing the mounting plate at additional points, limits the amplification of the acceleration passed

This is especially important in components with electronics, moving parts… or in applications where functionality must be ensured at all times such as hospitals, nuclear…
Taking this into account, the following tables indicates the sizes with the maximum weight to be installed for the two previous cases.

Table 1: SFN one door
Indication of sizes with maximum weight installed.

- Fixation to the floor with conical washer and large flat washer.
- Load evenly distributed on the plate with center of gravity at the middle height of the cabinet.

Dimensions (mm)		Width						
Height	Depth	300	400	500	600	700	800	1000
600	400							
	500							
	600				•	•	•	•
	800				•	•	•	•
	1000				•	•	•	•
800	400							
	500							
	600				•	•	•	•
	800				•	•	•	•
	1000				•	•	•	•
1000	400							
	500							
	600				•	•	•	•
	800				•	•	•	•
	1000				•	•	•	•
1200	400							
	500							
	600				75 (60)	90 (60)	105 (80)	135 (80)
	800				75 (60)	90 (60)	105 (80)	135 (80)
	1000				60 (50)	80 (60)	100 (70)	100 (70)
1400	400							
	500							
	600				90 (60)	105 (60)	125 (90)	140 (90)
	800				90 (60)	105 (60)	125 (90)	140 (90)
	1000				80 (60)	80 (60)	100 (70)	100 (70)
1600	400							
	500							
	600				100 (60)	120 (60)	140 (100)	140 (100)
	800				100 (60)	120 (60)	140 (100)	140 (100)
	1000				80 (60)	80 (60)	100 (70)	100 (70)
1800	400							
	500							
	600		•		115 (60)	120 (60)	140 (100)	140 (100)
	800		•		115 (60)	120 (60)	140 (100)	140 (100)
	1000				80 (60)	80 (60)	100 (70)	100 (70)
2000	400							
	500							
	600	•	•		120 (60)	120 (60)	140 (100)	140 (100)
	800	•	•	•	120 (60)	120 (60)	140 (100)	140 (100)
	1000				80 (60)	80 (60)	100 (70)	100 (70)
2200	400							
	500							
	600		•		120	120	120	75
	800		•		120	120	120	75
	1000				80	80	80	60

xxx Value in kg for SFN with reinforcement kit

(xxx) Value in kg for SFN without kit

Size available in catalogue premounted or kit (consult us for weight)

• Specific size on demand

• Size standard with coupling foot print must be 600 by 600 or greater Allowed load corresponding to the resulting foot print

Size available on demand with coupling foot print must be 600 by 600 or greater Allowed load corresponding to the resulting foot print

Not covered

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PanelSeT SFN 3G: Floor-Standing Enclosures

Dimensions

SFN with double door sizes tested

Table 2: SFN 2 doors
Indication of sizes with máximum weigth installed.

- Fixation to the floor with conical washer and large flat washer.
- Load evenly distributed on the plate with center of gravity at the middle height of the cabinet.

Dimensions (mm)		Width			
Height	Depth	800	1000	1200	1600
1800	400		130 (100)	130 (100)	
	500		130 (100)	130 (100)	
	600	140 (100)	140 (100)	85 (65)	60
	800	140 (100)	140 (100)	85 (65)	
	1000	100 (70)	100 (70)	70 (50)	
2000	400		130 (100)	130 (100)	
	500		130 (100)	130 (100)	
	600	140 (100)	140 (100)	85 (65)	60
	800	140 (100)	140 (100)	85 (65)	
	1000	100 (70)	100 (70)	70 (50)	

xxx Value in kg for SFN with reinforcement kit

(xxx) Value in kg for SFN without kit

3G

2.5 G

Not covered

4

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PanelSeT SFN 3G: Floor-Standing Enclosures

Dimensions

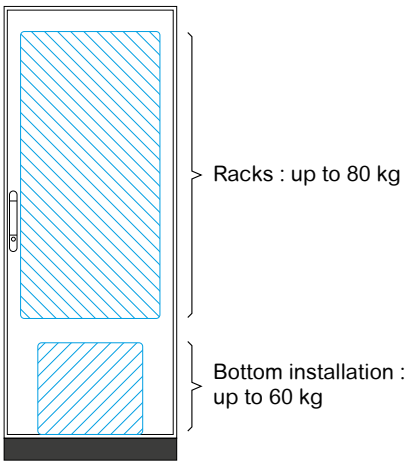


Fixation to the floor

- Fixing to the floor with conical washer and large flat washer.

Loads repartition

- 60 kg on the base and the rest of the racks screwed into the 4 profiles.
- Total weight of racks with center of gravity at half height.
- Minimum 4 racks with maximum weight per rack of 20 kg. If less, trays screwed to the 4 profiles must be put in place, until the minimum of 4.



Distribution of maximum weights for the case of 140 kg.
For the rest of the cases:

- 120 kg: 60 kg on racks + 60 kg on the base
- 110 kg: 50 kg on racks + 60 kg on the base
- 100 kg: 40 kg on racks + 60 kg on the base

To build a SFN 19 in conformity to seismic performances, use the following elements:

Composition

To compose a SFN 19 inche with 3G performance you need to order :

- SFN standard enclosures, size to choose within the table 3
- Kit seismic 3G. 19 inches width 600 or 800 mm
- 4 uprights
- Plinth ht 100 mm
- 4 cross rail according to depth of the chosen enclosure

Composition of the kit seismic 3G for SFN 19 inches

- Four plinth corners´s reinforcement bracket.
- Additional Mounting Brackets top and bottom for 19 inches uprights
- Lateral fixing bracket for 19 inches uprigth W800
- 2 heavy cross rails installed at the bottom and at the top, in the direction of the width of the cabinet
- Fixing hardware

Description	References
19 inches reinforcement kit for 3G performance for SFN width 600	**NSYSFNRB6003G**
19 inches reinforcement kit for 3G performance for SFN width 800	**NSYSFNRB8003G**

Table 3: SFN 19 inches

Dimensions (mm)		Width	
Height	Depth	600	800
1200	600	100 kg	120 kg
	800	120 kg	120 kg
1800	600	110 kg	140 kg
	800	140 kg	140 kg
2000	600	110 kg	140 kg
	800	140 kg	140 kg
	1000	110 kg	110 kg

3G : one door on the front
2.5G: one door on the front and one on back
Maximum weight of installed devices in kg

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Panel**SeT** SFN 3G: Floor-Standing Enclosures

PrismaSeT HD

PrismaSeT has been tested to a 3G seismic level according to the following seismic standards: IEC 60068-2-57 and IEC 60068-3-3.

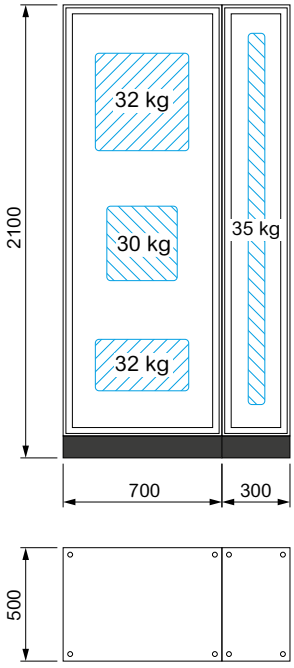


Main function
- LV Switchboard from 630 A to 4000 A dedicated to ED for harsh environments

Added value
- Modular & Functional Type Tested System
- Devices installation and connection with PrismaSeT prefabricated components in SFN structure

Other added value
- IEC61439-1&2 certified
- Compatible with PanelSeT SFN & PanelSeT SFN MCC

SFN Prisma**SeT** configuration tested with loads



One configuration of PrisamSeT HD tested with weight installed to simulate Circuit breaker and vertical busbar.

Configuration tested:
- Enclosure PrismaSeT:
  height 2000 width 700 depth 500
  - coupled with enclosure height 2000 width 300 depth 500
  - mounted on a 100 mm plinth.
- Plinth with reinforcement bracket.

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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Specific Applications

Explosive Atmospheres

Panel**SeT** S3DEX

PB501817_54_nb



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PanelSeT S3DEX

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PanelSeT S3DEX

Introduction





Industrial Environments, Equipment Rooms

The PanelSeT S3DEX steel enclosure is certified by the LCIE with no. LCIE 02ATEX0037U (component certification).

- Ten sizes: From 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
- Degree of protection: IP66 according to IEC 60529.
- Ambient temperature range: -20 °C ≤ Ta ≤ +40 °C.
- Resistance to external mechanical impacts: IK10.
- Structured finish, epoxy polyester powder paint, RAL 7035 gray.

Note:

In accordance with the ATEX directive

- The enclosures bear the marking shown on page 620.
- The enclosures offer a degree of protection of IP66 according to EN 60529, reaching the highest dust protection according to ATEX standards.
- The certification of our production sites and inspection procedures guarantees the observance and regularity of the quality level.

Protection of all applications in ATEX II2 or II3 areas

- Thanks to ATEX-certified steel.

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Enhanced Safety
- Blind nut for external earth connection



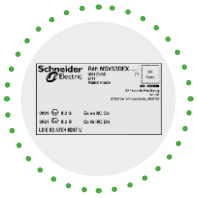
- Earthing studs welded to the door and inside the body



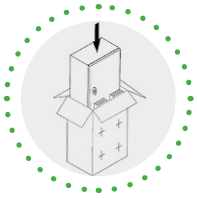
Robustness
- The chassis is mounted on four 10 mm shouldered backstuds



- The 4 fixing holes are blocked by 4 crimped blind nuts



Labelling
- Example of specific ATEX marking (description: page 620)



Easy Handling
- Reusable, eco-friendly packaging
- No sharp edges

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Introduction

ATEX Enclosures from Schneider Electric

Steel enclosures

- All the wall-mounted enclosures presented in this brochure comply with standards for protection against the potential risk of explosion in atmospheres containing gas (G) or dust (D).
- The Schneider Electric offer, designed to be used in group II, is classified as category 2.

Protection of equipment against explosion			ATEX	
Group *	Category	Level	Probability	Zone
I	M1	Very high	Permanent	0 / 20
I	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
II	2	High	Occasional	1 / 21
II	3	Normal	Accidental	2 / 22

* I = equipment designed to be used in the mining and quarrying industries
II = equipment designed to be used in surface industries

Zone of application of Schneider Electric ATEX wall-mounted enclosures.

4

- Products of category 2 can be used as category 3.

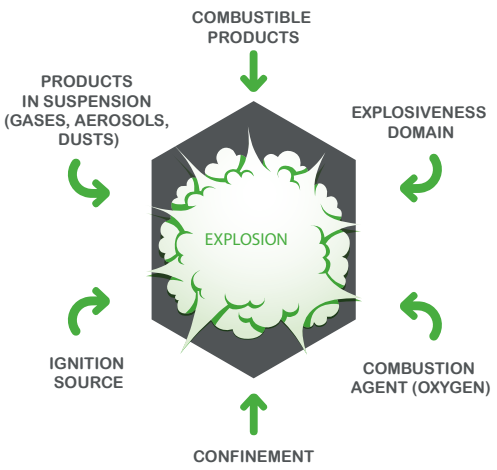
Our products are certified:

- For gas environments: Increased safety "e" (Ex e) but not flameproof safety "d" (Ex d);
- For dust environments: Protection by enclosure "t" or "tb".
- The wall-mounted enclosures offer a degree of protection of IP66 according to IEC 60529, exceeding the recommendations of the ATEX directive.
- Certification of our production sites and inspection procedures guarantees observance and consistency of the quality level.

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Potentially Explosive Atmospheres (ATEX)

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Explosion Hexagon

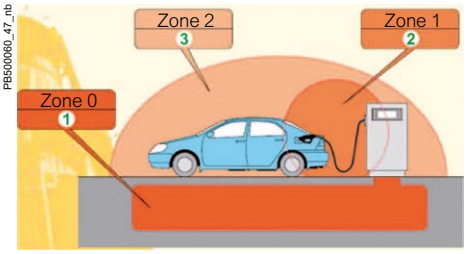
Definition

Product directive 2014/34/UE:
defines the manufacturers' obligations.

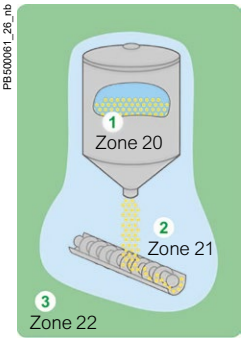
Personal protection directive 99/92/CE:
defines the users' obligations.

Degree of protection:
In hazardous areas, equipment is required to offer a minimum degree of protection of IP54, but it can be tested or certified for a higher degree of protection.

PB500060_47_nb



PB500061_26_nb



Process Leading to an Explosion in an Explosive Atmosphere

For an explosion to occur, six conditions must be met simultaneously (see explosion hexagon opposite). The process is as follows:

- Mixing combustible substances (gases, dusts) with air whose oxygen acts as combustion agent;
- Dosing of combustible products and combustion agents in precise proportions; thereby obtaining a potentially explosive atmosphere;
- Confining the explosive atmosphere thus obtained in a place conducive to explosion;
- Exposing it to an ignition source having sufficient energy to cause an explosion.

ATEX Regulations

Two EU directives and an international standard regulate potentially explosive atmospheres:

- The objective of the two EU directives (the so-called ATEX directives) is to enhance protection from explosions by making various technical and organizational measures compulsory:
- The 2014/34/EU directive (a revision of the 94/9/EC directive) came into application on 20 April 2016. It describes the requirements that must be met by protection devices and systems, and the conformity assessment procedures;
- The 99/92/EC directive, a labour relations supplement to the preceding one, presents the minimum requirements to be met to improve the protection of workers liable to be exposed to ATEX-related risks.

- An IEC international standard harmonized with the European standard EN:
- IEC 60079: electrical equipment for potentially explosive gaseous atmospheres.

Classification

Locations liable to be in the presence of an explosive atmosphere have been classified according to 2 criteria:

- The probability assessed on a scale comprising 3 levels;
- The nature of the combustible product.

The following 6 ATEX zones are obtained:

Probability of an explosive atmosphere	Gas / vapor or mist	Dust
Place in which an explosive atmosphere is present **constantly**, or for long periods or frequently	Zone 0	Zone 20
Place in which an explosive atmosphere is likely to occur **occasionally** in normal operation	Zone 1	Zone 21
Place in which an explosive atmosphere is not likely to occur in normal operation or, if it does occur, will persist for a **short period** only	Zone 2	Zone 22

Equipment installed in an explosive-atmosphere zone must be protected against the risk of explosion. Three levels of protection have been defined, corresponding to the three probabilities of existence of an explosive atmosphere. They are broken down into 5 categories depending on the type of industry.

Protection of equipment against explosions			ATEX	
Group *	Category	Level	Probability	Zone
I	M1	Very high	Permanent	0 / 20
I	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
II	2	High	Occasional	1 / 21
II	3	Normal	Accidental	2 / 22

* I = equipment designed to be used in the mining and quarrying industries
II = equipment designed to be used in surface industries

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Introduction

Protection of Electrical Equipment

The standards define various methods of protection for electrical equipment according to the application in explosive atmospheres containing gas or dust.

Electrical equipment		ATEX	Methods of protection	
CENELEC	IEC		Symbol	Title
EN 50015	IEC 60079-6	G, D	o	Immersion in oil
EN 50016	IEC 60079-2	G, D	p	Enclosures with internal overpressure
EN 50017	IEC 60079-5	G, D	q	Filling with powder product
EN 60079-1	IEC 60079-1	G, D	d	Explosion-proof enclosures
EN 60079-7	IEC 60079-7	G, D	e	Increased safety "e"
EN 50020	IEC 60079-11	G, D	i	Intrinsic safety
EN 60079-15	IEC 60079-15	G, D	n	Product design
EN 60079-31	IEC 60079-31	G, D	tD	Protection by enclosure "t"

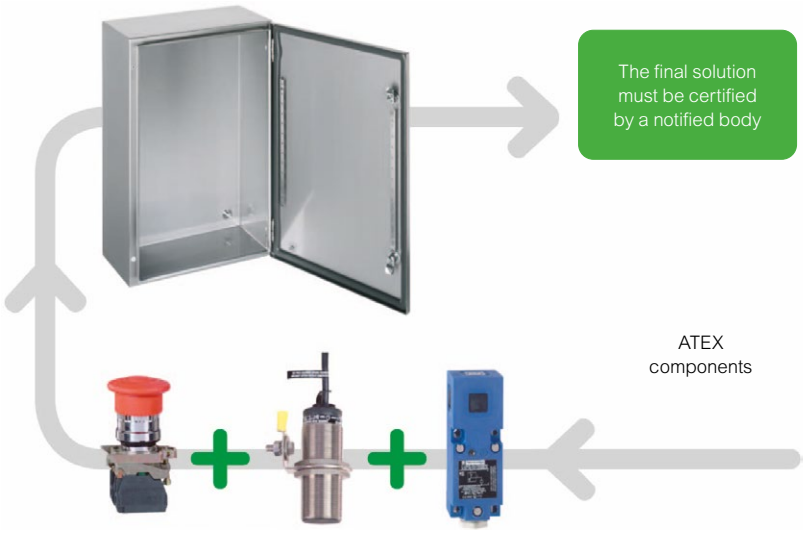
G = gas / vapor or mist
D = dust

4

ATEX Certification of Electrical Switchboards

- Since 1 July 2003, the European Union has made it compulsory to use certified equipment (electrical or non-electrical) when it is to be installed in areas where the atmosphere is potentially explosive.
- The certification must be established by an approved organization in accordance with the 2014/34/EU directive.
- The organization certifies that the product complies with the health and safety requirements defined in the European directive and the international standards.
- The certificate indicates, via the marking, the product's category and accordingly the zone and the atmosphere in which it may be used.
- Enclosures are certified as components. They will be assembled with other ATEX components (electrical, pneumatic, hydraulic, etc.), to form a final solution which must itself be ATEX-certified and covered by a declaration of conformity.

PB500062_nb



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PanelSeT S3DEX

Protection for users

- Earthing: The PanelSeT S3DEX steel enclosures are provided with M6 x 16 earth studs welded to the casing and door for equipotential connection. Earth strap to be ordered separately.
- Closing: Enclosures higher than 600 mm are provided with three locking points with connecting rods, with a single control point helping prevent the enclosures from being left half-open.

Casing

- Monobloc casing (cross-structure). Gutter-shaped front profile.
- 4 bottom shoulder studs M8 x 25 for mounting the chassis and notched bars to provide a space of 10 mm at the rear.

Door

- Standard fastening by 3-mm double-bar lock
- Polyurethane door seal
- Double-thickness 20 mm return conferring excellent rigidity;
- 2 concealed hinges (3 above H = 800 mm) to facilitate dismounting and reversibility of the door. Opening angle: 120°
- Maximum load: 50 kg/m².
- Perforated sections on the door, with holes of diameter 4.2 mm every 25 mm for mounting accessories:
- 2 vertical sections from H = 400 mm;
- 2 vertical sections and 2 horizontal sections from L = 800 mm.

Specific ATEX features

- 4 fastening holes closed by 4 crimped blind nuts.
- One crimped M8 blind nut for an external frame earth link (strap not provided)
- Ambient temperature: -20 °C ≤ Ta ≤ +40 °C
- Marking: See page 620.
- Material: Steel
- Finish: Structured finish, epoxi-polyester powder painting
- Color: RAL 7035 gray
- Ingress protection rating: IP66 (enclosures with single-door) according to IEC 60529
- Mechanical protection rating: IK10 (enclosures with plain door) according to IEC 62262
- Fixing: Wall fixing lugs:
  Passivated zinc-coated steel: Reference **NSYAEFPFSC**
  304L stainless-steel: Reference **NSYAEFPFXSC**


NSYS3DEX3215

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
PanelSeT S3DEX	300	200	150	**NSYS3DEX3215**
PanelSeT S3DEX	300	300	200	**NSYS3DEX3320**
PanelSeT S3DEX	400	300	200	**NSYS3DEX4320**
PanelSeT S3DEX	400	400	200	**NSYS3DEX4420**
PanelSeT S3DEX	500	400	200	**NSYS3DEX5420**
PanelSeT S3DEX	600	400	250	**NSYS3DEX6425**
PanelSeT S3DEX	600	600	250	**NSYS3DEX6625**
PanelSeT S3DEX	700	500	250	**NSYS3DEX7525**
PanelSeT S3DEX	800	600	300	**NSYS3DEX8630**
PanelSeT S3DEX	1000	800	300	**NSYS3DEX10830**

NOTICE

RISK OF STATIC CHARGE

The accessories of the PanelSeT standard wall-mounted enclosures can be installed in the PanelSeT S3DEX wall-mounted enclosures. However, plastic accessories should not be used due to the risk of a static charge.

Failure to follow these instructions can result in equipment damage.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT S3DEX

Accessories



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Mounting Accessories

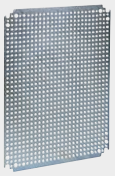
1



Plain mounting plate

See details p. 475

2



Microperforated mounting plate

See details p. 477

3



Telequick mounting plate

See details p. 476

4



Mixed symmetrical chassis

See details p. 509

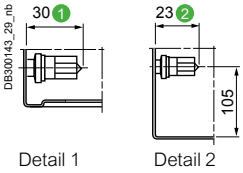
> For more information consult the Accessories chapter **page 472**

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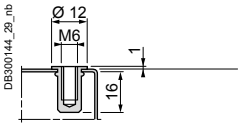
PanelSeT S3DEX

Dimensions

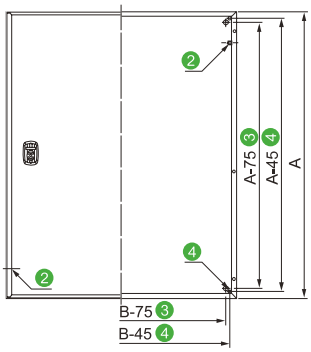
Single-Door Enclosure



Detail 1 Detail 2



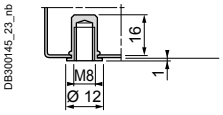
Detail 4
4 Crimped Blind Nuts for Direct Fixing of the Fixing Lugs



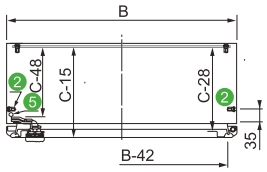


1 4 M8 x 25 mm backstuds.
2 2 M6 x 17.5 mm earthing studs.
3 Stud center-to-center distance.
4 Crimped blind nut center-to-center distance.
5 Blind nut for external earth.

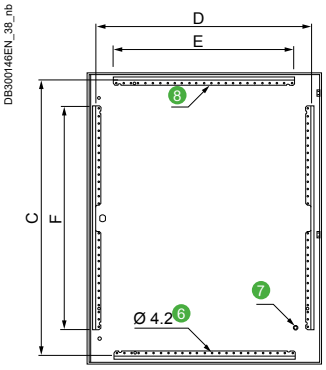
A: Height
B: Width
C: Depth



Detail 5
1 Crimped Blind Nut for the External Earth



Perforated Rails on the Door



Enclosure (8)		Perforated rails on the door (mm)			
Height (A) (mm)	Width (B) (mm)	Vertical F	Vertical D	Horizontal E	Horizontal C
400	300	320	237	-	-
400	400	320	337	-	-
600	400	370	337	-	-
600	600	370	537	-	-
700	500	470	437	-	-
800	600	570	537	-	-
1000	800	770	737	620	949

6 Perforations with a pitch of 25 mm.
7 1 M6 x 17.5 mm earthing stud.
8 The doors of enclosures with dimensions less than 800 x 600 mm do not have horizontal cable guides.

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Specific Applications

Electro Magnetic Compatibility

Panel**SeT** S3HF

PB500205_46_nb



Panel**SeT** SFN HF

PB503996



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Panel**SeT** S3HF - SFN HF

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Characteristics	**386**
Accessories	**388**
Dimensions	**389**

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PanelSeT S3HF - SFN HF

Introduction



Floor-standing PanelSeT SFN HF and wall-mounting S3HF are designed for sensitive applications requiring Electro-Magnetic Compatibility protection, enabling to operate without being disturbed, and without disturbing neighboring equipment or radio services by Electromagnetic Interference (E.M.I.).

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PanelSeT S3HF Wall-Mounted Enclosure

From 400 x 300 x 200 mm to 1200 x 800 x 300 mm (W x D x H)

- Metal monobloc enclosures constructed from special ALU-ZINC sheet
- Body constructed from single folded and welded sheet
- The enclosure surface, comprising 55% aluminum, helps ensure good reflection of radiated electromagnetic interference
- Ingress protection rating: IP55
- Mechanical protection rating: IK10
- Structured finish, exclusively epoxy polyester paint on the outside
- RAL 7035 gray



PanelSeT SFN HF Suitable Enclosure

From 1800 x 600 x 600 mm to 2200 x 800 x 800 mm (W x D x H)

- Metal, extendable enclosure constructed from a closed triangular profile, door and panel from special ALU-ZINC sheet
- The enclosure surface, comprising 55% aluminum, helps ensure good reflection of radiated electromagnetic interference
- Ingress protection rating: Consult us
- Mechanical protection rating: IK10
- Structured finish, exclusively epoxy polyester paint on the outside
- RAL 7035 gray

This range can be configured according to your needs
4 different services available:

Assemble to order

Mounting of standard accessories

Machining

Painting

For more information, see **Customization Services** page 12.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT S3HF - SFN HF

Characteristics

PanelSeT S3HF

- Single-piece metal enclosures made from special sheets of ALUZINC 150.
- The presence of 55% aluminum on the surface of the sheet metal helps ensure good reflection of electromagnetic waves.

Body

- Single-piece body, folded and welded,
- Entirely sealed body with no cable entry and no opening,
- Equipped with four shouldered backstuds allowing direct fixing of the mounting plate,
- Low resistivity for good earth continuity
- Direct fixing or using wall fixing lugs, ref. **NSYPFCR** (to be ordered separately).

Door

- The special body-door gasket (IP + EMC) provides, in addition to water and dust tightness, electric continuity between the door and the body of the enclosure,
- The metal lock with earth continuity helps improve the general shielding,
- An earthing braid added to the enclosure between the body and the door helps guarantee a good earth connection and, consequently, good electromagnetic compatibility,
- 3-mm double-bar lock as standard delivery (if a 405 key is needed it is possible to mount ref. **NSYCLL405CRN**).
- Other sizes: Consult us.
- Finish: Structured finish, epoxy polyester powder (inside not painted)
- Color: RAL 7035 gray
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262
- Certifications and declarations: UL, CE declaration
- Fixing: Fixing lugs, ref. **NSYPFCR** to be ordered separately (1 set of 4 lugs)

For more details see page 389

Supply:
Enclosure delivered with galvanized mounting plate.



NSYS3HF4320P

Characteristics	Fig.	Weight (kg)	Width (mm)	Height (mm)	Depth (mm)	References
PanelSeT S3HF	1	7.5	300	400	200	**NSYS3HF4320P**
PanelSeT S3HF	2	13.0	400	600	200	**NSYS3HF6420P**
PanelSeT S3HF	2	20.5	600	600	250	**NSYS3HF6625P**
PanelSeT S3HF	2	32.8	600	800	300	**NSYS3HF8630P**
PanelSeT S3HF	2	53.2	800	1000	300	**NSYS3HF10830P**

Support Bracket for Enclosure with Anti-Tilt Kit and Reinforcement

- The support bracket is used when the enclosure cannot be mounted to a wall or post.
- Maximum enclosure dimensions: 1000 x 800 x 300 mm.
- Floor attachment by standard M12 fasteners.
- Material: Steel
- Finish: Painted
- Color: RAL 7035 gray
- Maximum load: 120 kg



NSYCOCNS1400

Characteristics	Height (mm)	References
Support bracket for enclosure with anti-tilt kit and reinforcement	1400	**NSYCOCNS1400**
Support bracket for enclosure with anti-tilt kit and reinforcement	1800	**NSYCOCNS1800**

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PanelSeT SFN HF



NSYSFNHF20860

Structure
- Galvanized steel structure,
- Top and bottom frame, vertical upright.

Claddings
- Enclosure with screwed panels (on side and rear) and front plain door (with reinforcement frame) made from Aluzinc steel,
- Bolted side panels included,
- Special gasket (IP + EMC) between framework, door panels, gland plate support and gland plate.
- Finish: Epoxy polyester paint on the outside (inside not painted)
- Color: RAL 7035 gray
- Ingress protection rating: Consult us
- Mechanical protection rating: IK10 according to IEC 62262
- Certifications: RoHS and REACH compliant
- Dimensions manufacturing from 1800 x 600 x 600 mm to 2200 x 800 x 800 mm (W x D x H) are available on demand

One standard reference available

Note:
For more details see page 389

Supply:
- 1 single plain door with door-reinforcement frame (double-door on request, please consult us).
- Left or right opening to 120° (hinges 180° on demand).
- Delivered with standard locking system handle and 5-mm double-bar insert.
- 1 rear panel screwed from the outside.
- 2 side panels mounted with screws.
- 1 removable roof.
- 1 part cable gland plate with special gasket (IP + EMC).

Characteristics	Reference
PanelSeT SFN HF	**NSYSFNHF20860**

More sizes on demand, contact us.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

PanelSeT S3HF - SFN HF

Accessories

All mounting accessories are compatible with the SFN and SM standard range.
- Mounting plate (see page 480).
- Rails (see page 492).
- 19" frame (fixed and swing-out) (see page 314).

Earth Braids

- They help guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- Material: Tinned copper.

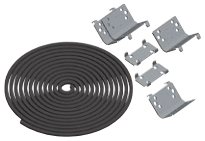
Supply:
10 earth braids (nuts and washers not included)


NSYEB156D6

Characteristics	Section (mm²)	Terminal Ø (mm)	Length (mm)	Width (mm)	References
Earth braids	6	6.5	150	12	**NSYEB156D6**
Earth braids	10	6.5	150	17	**NSYEB1510D6**
Earth braids	16	8.5	155	17	**NSYEB1516D8**
Earth braids	25	8.5	200	27	**NSYEB2025D8**
Earth braids	50	8.5	200	33	**NSYEB2050D8**

EMC Coupling Kit

- Used to join enclosures side-by-side or back-to-back. Special gasket for EMC solution.
- Attenuation level is decreased by 5 db when enclosures are joined (please consult us).
- Ingress protection rating: IP55 according to IEC 60529.


NSYSFHFBK184

Characteristics	Height (mm)	Depth (mm)	References
EMC coupling kit	1800	400	**NSYSFHFBK184**
EMC coupling kit	1800	600	**NSYSFHFBK186**
EMC coupling kit	2000	400	**NSYSFHFBK204**
EMC coupling kit	2000	600	**NSYSFHFBK206**
EMC coupling kit	2000	800	**NSYSFHFBK208**
EMC coupling kit	2000	1000	**NSYSFHFBK2010**
EMC coupling kit	2200	600	**NSYSFHFBK226**
EMC coupling kit	2200	800	**NSYSFHFBK228**

EMC Cable Gland with Contact Spring

- Thread type: Metric EN 60423, other types are available upon request
- Material: Nickel-plated brass, neoprene gasket
- Ingress protection rating: IP66 according to IEC 60529
- Flame resistance: UL94 V-2
- Temperature range: -20 °C to + 100 °C
- Cable type: Unshielded

Supply:
The cable glands are supplied with nuts.
Pack of 10 (M12 and M16), of 5 (M20 and M25), of 4 (M32 and M40)


NSYCGHF12

Characteristics	Ø	Ø min/max	Drill Ø	TD	TL	Wrench width	References
New EMC cable gland with contact spring	M12	3/6.5	12 to 12.2	12	6	14	**NSYCGHF12**
New EMC cable gland with contact spring	M16	5/10	16 to 16.2	16	7	20	**NSYCGHF16**
New EMC cable gland with contact spring	M20	6/12	20 to 20.2	20	8	22	**NSYCGHF20**
New EMC cable gland with contact spring	M25	11/17	25 to 25.2	25	8	27	**NSYCGHF25**
New EMC cable gland with contact spring	M32	15/21	32 to 32.3	32	8	34	**NSYCGHF32**
New EMC cable gland with contact spring	M40	19/28	40 to 40.3	40	9	43	**NSYCGHF40**

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PanelSeT S3HF

Fig. 1

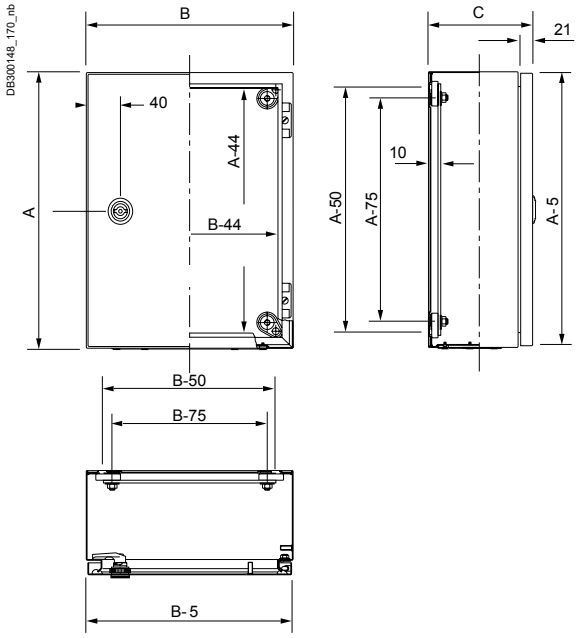
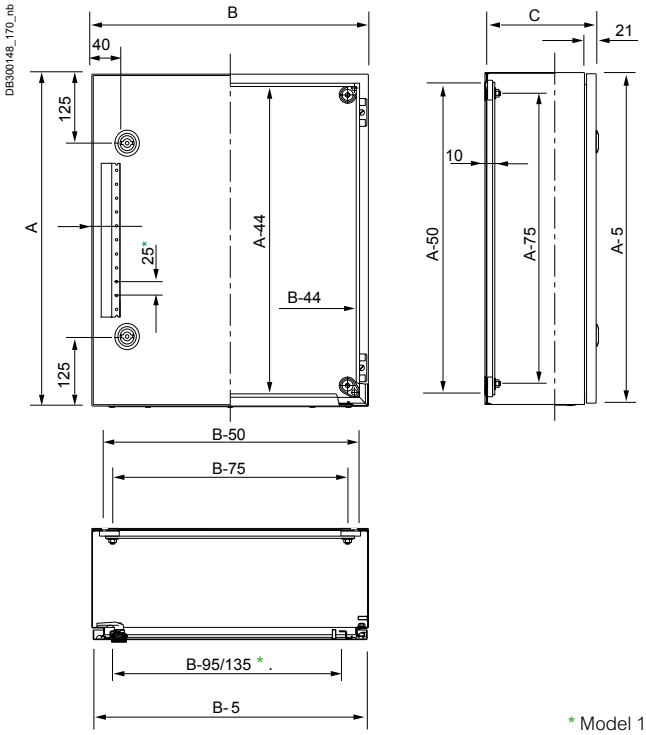


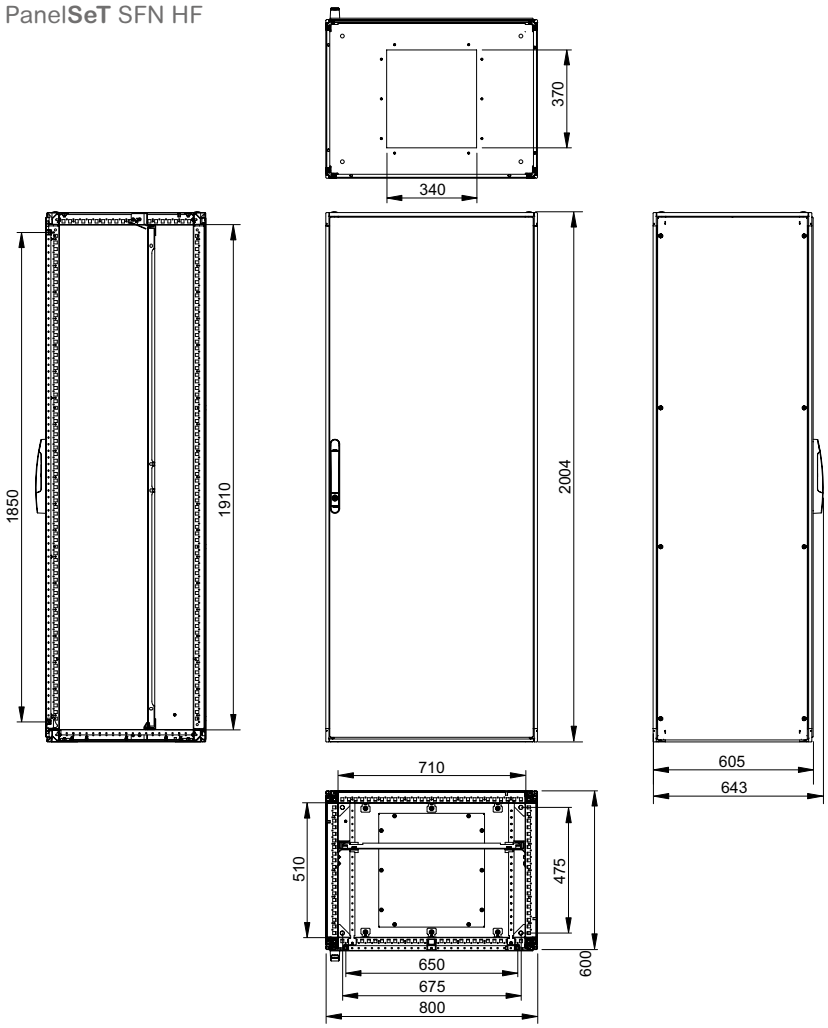
Fig. 2



A: Height.
B: Width.
C: Depth.

* Model 1200 x 800.

PanelSeT SFN HF



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Variable-Speed Drive Flush-Mounting Kit
PanelSeT S3D, SFN and SM

Introduction

The variable-speed drives flush-mounting kits have been designed to isolate the power part, which is an important source of heat. They are mounted in the PanelSeT range of steel enclosures (floor-standing and wall-mounted enclosures) and have been approved for Altivar Process variable-speed drives of the ATV630 and ATV930 ranges (power range: 0.75 to 45 kW at 200/240 V, 0.75 to 90 kW at 380/480 V).

The kits are available in five sizes and offer two methods of mounting variable-speed drives:
- slide-rail mounting for sizes 1, 2 and 3
- bracket mounting for sizes 4 and 5.

The kits can be installed:
- at the back of the enclosure.

This installation provides full thermal insulation.

- inside the enclosure on a mounting plate.

This installation may require additional thermal control.







Tightness
- IP55 according to IEC 60529 with polyurethane seal provided.

Configured offer

Services
Option of cut-outs (enclosure and frame) by Schneider Electric: No risk of corrosion and cuts (cut-out made before painting).



Ease of Installation
- Set of slide-rails allowing the variable-speed drive to be mounted quickly and efficiently.



Strength
- The rigidity of the kit allows it to be installed on PanelSeT S3D, SFN and SM enclosures.

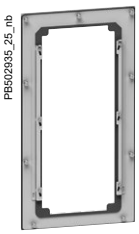
Earth Continuity
- Earth continuity is ensured by tightening the M6 nuts combined with pin washers.



Maintenance of the Variable-Speed Drive Fan (Kit Sizes 4 and 5)
- Easy front panel maintenance for fan servicing.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Variable-Speed Drive Flush-Mounting Kit
PanelSeT S3D, SFN and SM
Characteristics

Characteristics	Mounting kits	
	 PB502935_25_nb	 PB502936_32_nb
Note: For dimensions see page 392	Sizes 1, 2 and 3	Sizes 4 and 5
	Variable-speed drive installation kits allowing the hot part to be isolated.	
Material	Steel	
Finish	Structured finish, epoxy polyester powder	
Color	RAL 7035 gray	
Ingress protection rating	IP55 according to IEC 60529	
Certifications	UL (cULus). Rated 1, 3R and 12 according to UL50E	
Supply	Sizes 1, 2 and 3: • Painted steel plate with cut-out fitted with two slide-rails + adhesive seal + 7 to 9 M6 studs for kit mounting • Protection seal profile supplied for frame cut-out • Enclosure drilling template	Sizes 4 and 5: • Painted steel plates with cut-out fitted with painted mounting brackets + screws and nuts for fixing the brackets and the kit • Protection seal supplied for frame cut-out

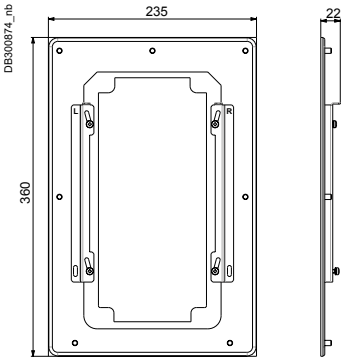
Dimensions (mm)			Sizes	Compatibilities						Kits
					Variable-speed drives					
					ATV340 380/480 V	ATV630 200/240 V	380/480 V	ATV930 200/240 V	380/480 V	
H	L	P		Enclosures	References	References	References	References	References	References
360	235	22	1	S3D, SFN, SM	-	**ATV630U07M3**	**ATV630U07N4**	**ATV930U07M3**	**ATV930U07N4**	**NSYPTDS1**
360	235	22	1	S3D, SFN, SM	-	**ATV630U15M3**	**ATV630U15N4**	**ATV930U15M3**	**ATV930U15N4**	**NSYPTDS1**
360	235	22	1	S3D, SFN, SM	-	**ATV630U22M3**	**ATV630U22N4**	**ATV930U22M3**	**ATV930U22N4**	**NSYPTDS1**
360	235	22	1	S3D, SFN, SM	-	**ATV630U30M3**	**ATV630U30N4**	**ATV930U30M3**	**ATV930U30N4**	**NSYPTDS1**
360	235	22	1	S3D, SFN, SM	-	**ATV630U40M3**	**ATV630U40N4**	**ATV930U40M3**	**ATV930U40N4**	**NSYPTDS1**
360	235	22	1	S3D, SFN, SM	-	-	**ATV630U55N4**	-	**ATV930U55N4**	**NSYPTDS1**
420	265	22	2	S3D, SFN, SM	-	**ATV630U55M3**	**ATV630U75N4**	**ATV930U55M3**	**ATV930U75N4**	**NSYPTDS2**
420	265	22	2	S3D, SFN, SM	-		**ATV630D11N4**	-	**ATV930D11N4**	**NSYPTDS2**
555	295	22	3	S3D, SFN, SM	-	**ATV630U75M3**	**ATV630D15N4**	**ATV930U75M3**	**ATV930D15N4**	**NSYPTDS3**
555	295	22	3	S3D, SFN, SM	-	**ATV630D11M3**	**ATV630D18N4**	**ATV930D11M3**	**ATV930D18N4**	**NSYPTDS3**
555	295	22	3	S3D, SFN, SM	-	-	**ATV630D22N4**	-	**ATV930D22N4**	**NSYPTDS3**
800	385	151.5	4	SFN, SM	**ATV340D30N4E**	**ATV630D15M3**	**ATV630D30N4**	**ATV930D15M3**	**ATV930D30N4**	**NSYPTDS4**
800	385	151.5	4	SFN, SM	**ATV340D37N4E**	**ATV630D18M3**	**ATV630D37N4**	**ATV930D18M3**	**ATV930D37N4**	**NSYPTDS4**
800	385	151.5	4	SFN, SM	-	**ATV630D22M3**	**ATV630D45N4**	**ATV930D22M3**	**ATV930D45N4**	**NSYPTDS4**
975	427	205.5	5	SFN, SM	**ATV340D45N4E**	**ATV630D30M3**	**ATV630D55N4**	**ATV930D30M3**	**ATV930D55N4**	**NSYPTDS5**
975	427	205.5	5	SFN, SM	**ATV340D55N4E**	**ATV630D37M3**	**ATV630D75N4**	**ATV930D37M3**	**ATV930D75N4**	**NSYPTDS5**
975	427	205.5	5	SFN, SM	**ATV340D75N4E**	**ATV630D45M3**	**ATV630D90N4**	**ATV930D45M3**	**ATV930D90N4**	**NSYPTDS5**

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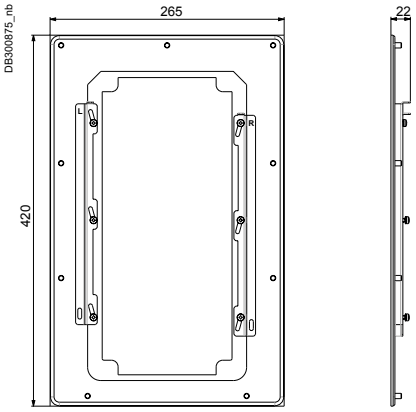
Variable-Speed Drive Flush-Mounting Kit
PanelSeT S3D, SFN and SM

Dimensions

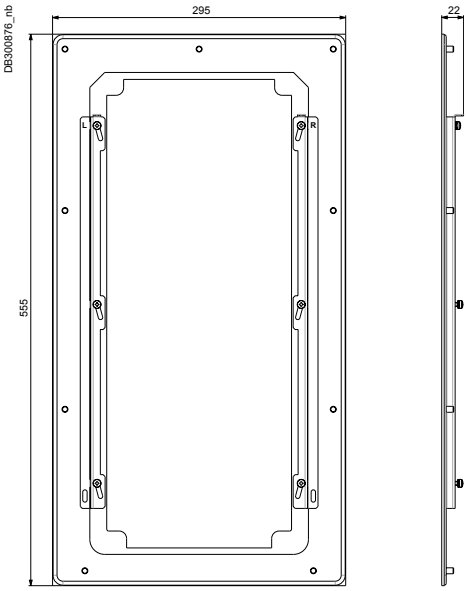
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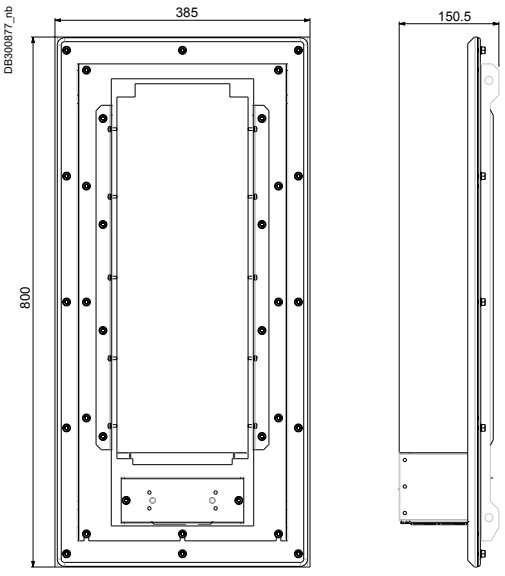
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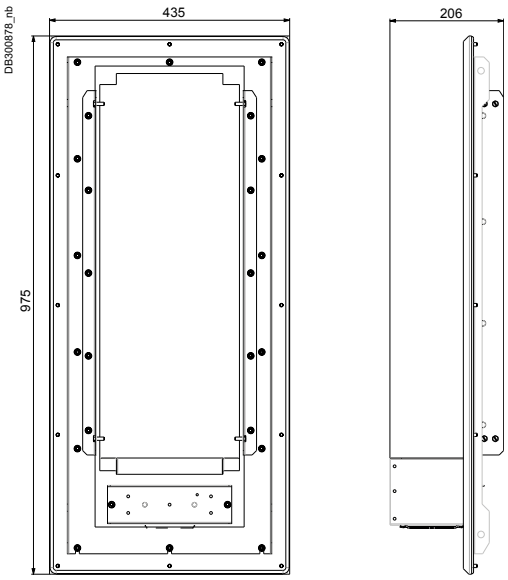
NSYPTDS3



NSYPTDS4



NSYPTDS5



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Variable-Speed Drive Flush-Mounting Kit
PanelSeT S3D, SFN and SM

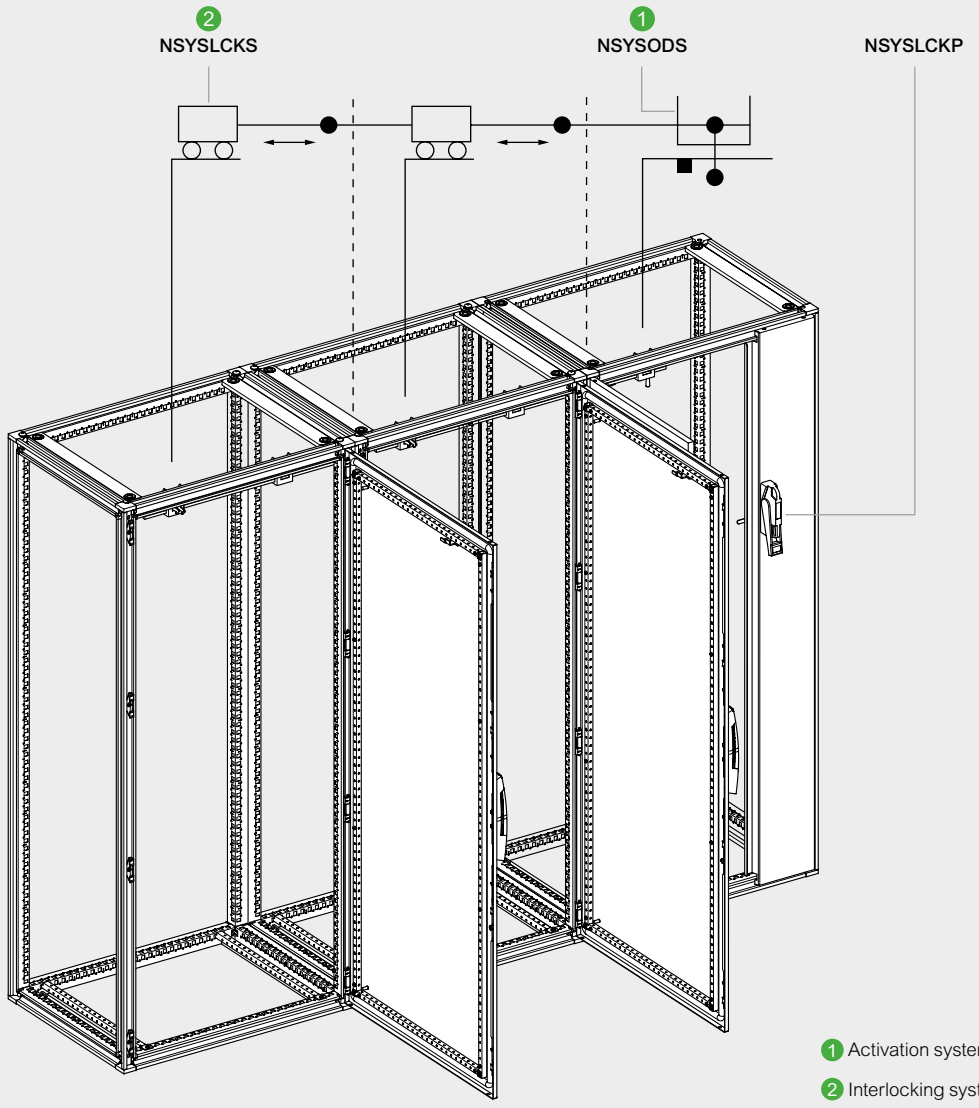
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Introduction

The door of the "incoming" enclosure is interlocked by the control of the main switch or circuit breaker. A built-in interlocking system with runner rods helps prevent the opening of the "outgoing" enclosure doors. Access is only allowed when the main switch or circuit breaker is in "O" position and the main door is open. Manual activation of the rods unlocks the other doors and allows access.

Designed to be Combined with Specific Circuit Breakers or Switches:
- Square D (9422 A1).
- Schneider Electric.

The System is Limited for Configurations up to 4 Columns.



1 Activation system for secondary doors.

2 Interlocking system for secondary doors.



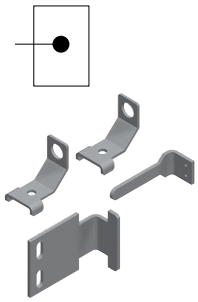
Enhanced Safety

- The built-in safety interlocking system for the door (on demand) of the incoming/outgoing enclosures allows PanelSeT SFN enclosures to be adapted to the requirements of the American automotive industry.

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Characteristics

Interlocking System for Main Door



NSYSLCKP

System for unlocking the main door adapted to the switches:
- Allen Bradley (1494 VH11).
- Square D (9422 A1).
- Siemens (FH0H).
- Schneider Electric.

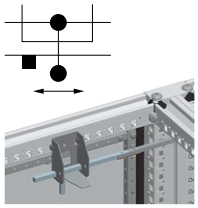
Unlocks the main door when the switch is in the open position "O".
The main door interlocking system requires ordering both references:
1 Activation system for secondary doors.
2 Interlocking system for secondary doors.
- Material: Steel
- Finish: Zinc-coated

Note:
The fixed panel in this example must be ordered through our customized service.

Supply:
2 brackets for fixing the configured panel, interlocking elements, switch and fixings. Configured panel and switch not included.

Characteristics	References
Interlocking system for main door	**NSYSLCKP**

Activation System for Secondary Doors



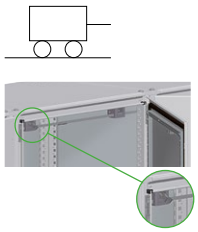
NSYSODS

- System installed in the main enclosure.
- Activated by manual operation, help preventing the opening of the secondary enclosures connected to one another by runner rods.
- Safety function consisting of a part that forces the system into the position in which the secondary enclosures are locked in order to lock the main door.
- Material: Mechanism: Zinc-coated steel, Activation handle: Black plastic

Supply:
Elements for activating the main door and fixings.
For the complete function, both activation
1 and interlocking systems
2 need to be ordered.

Characteristics	References
Activation system for secondary doors	**NSYSODS**

Interlocking System for Secondary Doors



NSYSLCKS6

- System for interlocking the outgoing enclosures connected to one another by runner rods that lock their doors.
- Material: Steel
- Finish: Zinc-coated
- Fixing: Fixing to the structure of the enclosures by screws

Supply:
Elements for interlocking the secondary doors and fixings.
For the complete function, both activation
1 and interlocking systems
2 need to be ordered according to the enclosure width.

Characteristics	Width (mm)	References
Interlocking system for secondary doors	600	**NSYSLCKS6**
Interlocking system for secondary doors	800	**NSYSLCKS8**
Interlocking system for secondary doors	1000	**NSYSLCKS10**

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ClimaSys Thermal Management System

Thermal Management System

PB503912



5

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Thermal Management System

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Introduction

Thermal Problems in Enclosures

Make your manufacturing processes more dependable by reducing downtime and production losses.

Evolution of the electrical switchboard

An electrical switchboard is an assembly formed of the following components:

- The enclosure;
- Switchgear and controlgear;
- Electrical conductors; and Miscellaneous functions (displays, controls, information processing).



It has evolved in three directions:

- Enclosures increasingly made of insulated materials;
- Switchgear and controlgear incorporating more and more electronics which concentrates a growing number of functions in an increasingly small volume;
- An increasingly high density ratio.

Industrial safety studies, a concept which covers:

- The safety of personnel and equipment;
- The availability of electric power;

These two aspects are the critical point of all industrial and service-sector activities. Operation must therefore be perfectly under control; and this control must concern not only the operation of the components but also their operating conditions in a given environment.

Temperature and humidity in the enclosure

Analysis of the malfunctions and downtimes of an electrical installation shows that they are mostly of thermal origin: Temperature/humidity ratio too high or too low inside the enclosure.

The rise of the average temperature above the limits tolerated by the equipment is often caused by changes to the electrical switchboard:

- Use of insulated materials for the enclosure impairing heat dissipation,
- An increasing number of electronic devices and a higher filling rate increase the temperature.

Such overheating may only occur at certain points of the installation called 'hot spots'.

Excessively low temperatures occur when the electrical switchboard is installed in a very cold environment. These low temperatures, in case of too high humidity ratio may cause the formation of water condensate (harmful to electrical equipment).

Consequences

The presence of humidity or excessively high temperatures inside the enclosure can cause numerous malfunctions:

- Nuisance tripping of protective devices;
- Fire inside the enclosure;
- Burns for the users;
- Premature equipment ageing;

These malfunctions lead to an increase in the installation's operating costs:

- Maintenance costs,
- Costs entailed by installation downtimes.

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Solution: Thermal Management

Objective

The thermal management solution adopted shall:

- Maintain the temperature and humidity level inside the enclosure at values corresponding to normal operation of the equipment.
- Establish a uniform temperature to help prevent hot spots.

Choice of solution

The products constituting the thermal management solution are selected to obtain a thermal balance of the installation. This comprises 2 parts:

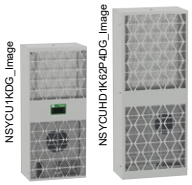
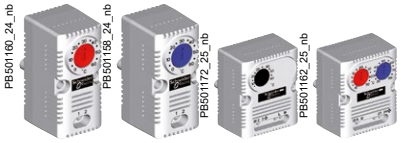
- Thermal balance inside the enclosure;
- Evaluation of the ambient climatic conditions (temperature, humidity level) or environmental conditions (pollution) of the location of the electrical switchboard.

The Schneider Electric solutions

With the ClimaSys range, Schneider Electric proposes a comprehensive offer meeting all needs:

- Natural airing and forced ventilation.
- Homogenizing (air circulation).
- Heat Exchangers and Cooling Units 2023 novelties: The new Cooling Unit range is natively able to communicate to any supervision system.
- Heating resistances.
- Regulating controllers.

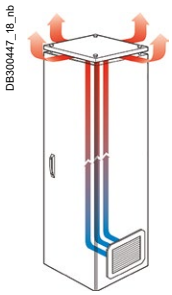
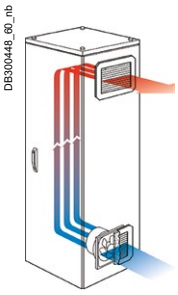
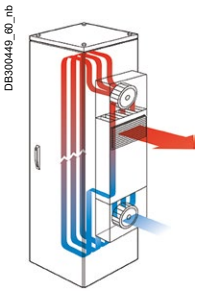
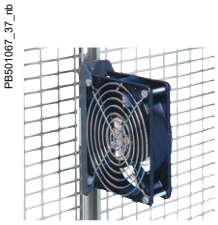
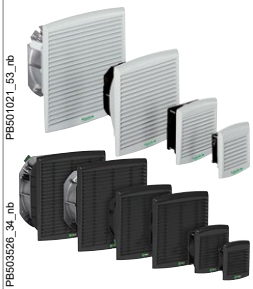
Schneider Electric also proposes a thermal design software, ProClima Web, which calculates the thermal balance and proposes one or more thermal management solutions, adapted to the customers environment. To simplify user experience during electrical switchboard design phase, ProClima Web is now fully integrated with SEE Electrical Software suits.

Characteristics	Smart Climasys	Climasys
Cooling	 Smart airing systems	 Forced-airing systems  Air-to-air exchangers  Air-to-water exchangers  Cooling units
Heating		 Resistance heaters
Controlling	 Smart thermal control accessories	 Thermal control accessories 
Softwares		 ProClima Web software  SEE electrical  Product Selector  Customization Offers

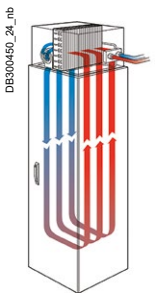
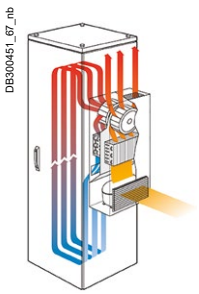
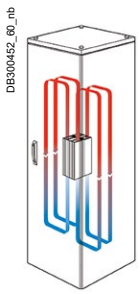
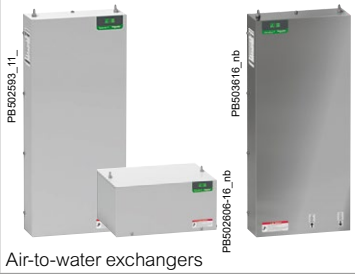
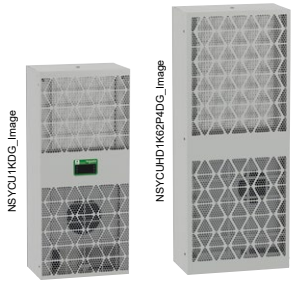
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ClimaSys

Offer Overview

	Homogenize	Cooling		
				
Solution	**Air circulation**	**Natural airing**	**Forced-airing**	**Air-to-air exchanger**
Description	Circulation fan inside the enclosure.	Air circulation achieved by installing grids (side or roof-mounted) with or without filter, or by elevating the roof.	A fan (with or without filter) feeds fresh external air into the enclosure. This creates a slight overpressure, forcing the warm air out of the enclosure through an outlet grid. The air flow balances the temperature, and the overpressure helps prevent dust ingress. Side or roof-mounted. Can be combined with a thermostat	Cooling system comprising an aluminum heat exchanger and separate internal and external air circuits and two centrifugal fans circulating the air, and a thermostat for temperature control. Side or roof-mounted.
Use	To help prevent hot spots.	Low power to be dissipated. Dusty environment.	High heat dissipation performance, suitable for dusty and non-hazardous environments. Helps prevent hot spots	Medium heat dissipation performance, suitable for corrosive environments (food processing) and relatively cold environments (approx. 25 °C).
Temperature conditions Ta = ambient temperature (outside the enclosure) Td = desired temperature inside the enclosure.	None	Td > Ta + 5 °C	Td > Ta + 5 °C 3 °C < Ta ≤ 35 °C	Td > Ta + 10 °C
Independent internal and external air circuits?	No	No	No	Yes
Advantages	• Uniform temperature inside the enclosure.	• Very economical solution. • No maintenance. • Easy, fast installation.	• Economical solution. • Easy maintenance. • Easy, fast installation. • Uniform temperature inside the enclosure. • Level of protection: IP54 (IP55 with cover).	• Easy maintenance (no filter). • Far lower maintenance frequency than for fans. • IP55 between the enclosure and the air-to-air exchanger.
Disadvantages		• Low power dissipated. • Reduction of IP rating. • Risk of ingress of particles and dust if no filter.	• Internal temperature always higher than external temperature. • Maintenance required: filter change.	• Internal temperature always higher than external temperature.
Illustration		 Outlet grids	 Fans	 Air-to-air exchangers

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	Cooling		Heating
			
	Air-to-water exchanger	**Cooling unit**	**Resistor heaters**
	Cooling system using an exchanger coil supplied with cold water, separated from the internal air circuit, a centrifugal fan for air circulation, and a thermostat to regulate the temperature inside the enclosure. Side-mounting.	Operates like a heat pump: A condenser dissipates the calorific energy absorbed by an evaporator to the ambient air, thereby cooling and drying the air in the enclosure. Mounted on Side (surface, half flush, flush) or Roof. Connected Cooling Units Provides data related to alarming, operations, and setting, locally and remotely, in any process SCADA, supervision, including EcostruXure SE Software Ware and Application and services.	The heating resistors help prevent the formation of condensation and ensure an ideal temperature inside the enclosure.
	Dissipation of large quantities of heat. Suitable for difficult environments (cement plants, production lines, etc.) or humid environments (sewage plants, bottling lines, etc.). Calorific energy is not discharged to the environment.	Filter recommendation: Office environment (no dust, no grease): filter free, Industrial environment (dust, grease, not explosive): G3 fiber filter is recommended, Outdoor (not explosive) : aluminum filter is recommended, Indoor CU are delivered without any filter by default. Outdoor CU are delivered with Aluminum filter by default.	To heat the inside of the enclosure and help prevent condensation.
	Ta > Td	Ta > Td and Ta ≤ 55 °C	Ta < Td
	Yes	Yes	-
	• Internal temperature independent of external temperature • Protection system against any leaks • Calorific energy dissipated externally. • Level of protection: IP55.	• Internal temperature independent of external temperature. • Even temperature inside the enclosure. • Level of protection: IP54 for roof, IP55 for side-mounted models. • Drainage system for condensed water from evaporator heat exchanger.	• Small size (1.6 mm thick for the ultra-thin version). • Low surface temperature (< 70 °C for insulated version, 75 °C for aluminum version). • Even temperature inside the enclosure with the version equipped with a fan.
	• Cold-water circuit with stabilized temperature and flow rate required. • Installation of special piping.	• Water condensation evaporation unit integrated in side-mounted models from 1 to 4 kW. • Maintenance required: filter change.	
	 Air-to-water exchangers	 Cooling units	 Heating resistors

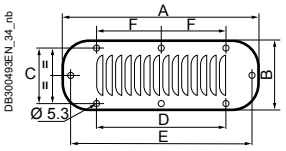
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ClimaSys CA

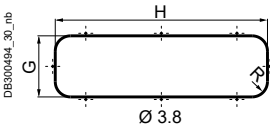
Accessories

Metal Louvre Plate, Rectangular

Louvre dimensions



Cut-out dimensions



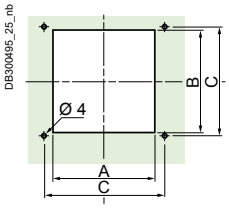
- Material: Steel.
- Structured finish, epoxy polyester panting, RAL 7035 gray.
- Ingress protection rating (according to IEC 60529): IP20.
- Installation: On the sides of the enclosure. Fixing by screws.

Supply:
One metal louvre and fixing elements.


NSYCAG110X46M

Characteristics	(mm)									References
	A	B	C	D	E	F	G	H	R	
Metal louvre plate, rectangular	144	62	36	110	-	-	46	94	10	**NSYCAG110X46M**
Metal louvre plate, rectangular	208	90	72	94	190	-	62	180	18	**NSYCAG180X62M**
Metal louvre plate, rectangular	244	90	72	130	226	-	62	216	18	**NSYCAG216X62M**
Metal louvre plate, rectangular	345	118	100	231	327	115.5	90.5	317	30	**NSYCAG317X91M**
Metal louvre plate, rectangular	345	148	130	231	327	115.5	120	317	30	**NSYCAG317X120M**
Metal louvre plate, rectangular	445	148	130	267	427	148.5	120	417	30	**NSYCAG417X120M**

Metal Louvre Plate, Square



- Ingress protection rating (according to IEC 60529): IP23.

Supply:
One metal louvre.


NSYCAG104X95LM

Characteristics	Dimensions (mm)	A	B	C	Slot width	Number of slots	References
Metal louvre plate, square	120 x 120	95	90	104.8	90	5	**NSYCAG104X95LM**
Metal louvre plate, square	160 x 160	110	130	140	100	5	**NSYCAG130X110LM**
Metal louvre plate, square	220 x 220	190	170	200	180	5	**NSYCAG170X190LM**

Anti-Insect Filters for Metal Louvre Plate, Square

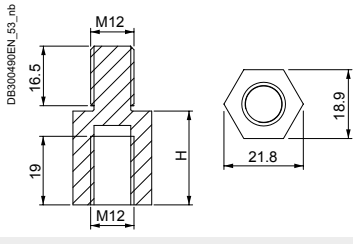
- Material: Stainless-steel 304L Ø 0.32 mm wire mesh, 1.07 mm, thickness 0.6 mm.
- Ingress protection rating (according to IEC 60529): IP33.
- Installation: Between the enclosure and the metal louvre.

Supply:
One anti-insect filter.


NSYCAF104X95X

Characteristics	External dimensions (mm)	Weight	References
Anti-insect filters for metal louvre plate, square	98 x 115	0.8 kg/m²	**NSYCAF104X95X**
Anti-insect filters for metal louvre plate, square	133 x 158	0.8 kg/m²	**NSYCAF130X110X**
Anti-insect filters for metal louvre plate, square	197 x 215	0.8 kg/m²	**NSYCAF170X190X**

Roof Elevators



- Allow the roof to be raised, providing natural airing.
- Material: Zinc-coated steel.
- They are screwed onto the structure of SF enclosures at the roof fixing points.

Supply:
4 elevators.


NSYRE26

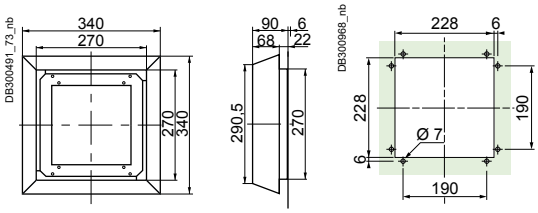
Characteristics	Top elevation (mm)	References
Roof elevators	26	**NSYRE26**
Roof elevators	60	**NSYRE60**

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Hood for Natural Airing


NSYCAC228RMF

- Natural airing device for coupling to the top of metal floor-standing enclosures. Solution for combination with the airing slots.
- Material: Steel.
- Finish: Structured finish, epoxy polyester painting, RAL 7035 gray.
- Ingress protection rating (according to IEC 60529): IP54.
- Installation: Fixing to the top by means of caged nuts and special screws.



Supply:
1 hood for natural airing and fixing elements.

Characteristics	Weight	References
Hood for natural airing	4.6 (kg)	**NSYCAC228RMF**
Spare filter	-	**NSYCAF228R**

Plastic Airing Louvres


NSYCAG45LP


NSYCAG35LP


NSYCAG38LP


NSYCAG33LP


NSYCAG19LP

Four models available according to IP rating, in vertical position.

Supply:
References by unit. Order by multiples of 2 units (2, 4, 6, etc)

Characteristics	Ingress protection rating	Cut-out Ø (mm)	References
Plastic airing louvres	IP22	45.5	**NSYCAG45LP**
Plastic airing louvres	IP30/44	35	**NSYCAG35LP**
Plastic airing louvres	IP45	38	**NSYCAG38LP**
Plastic airing louvres	IP44	33	**NSYCAG33LP**
Plastic airing louvres	IP45	19	**NSYCAG19LP**

Sealed pressure balance valve


NSYCAG12LPH2

- Controls the pressure to avoid condensation following internal temperature increase.
- Material: PA6-V2, acrylic co-polymer membrane, water- and oil-repelling.
- Ingress protection rating: IP68.
- Permeability: Air flow under Δ P = 0.7 bar.

Characteristics	Cut-out Ø (mm)	Permeability	Pressure difference	Minor pack.	References
Sealed pressure balance valve	M12	16 litres/h	ΔP < 1 bar	10	**NSYCAG12LPH1**
Sealed pressure balance valve	M12	120 litres/h	ΔP < 0.1 bar	10	**NSYCAG12LPH2**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

ClimaSys CV

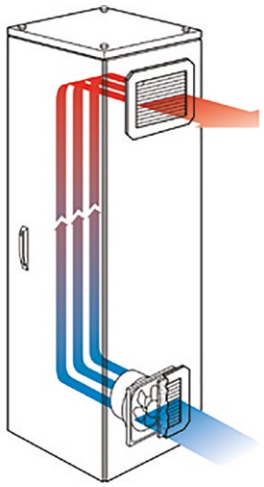
Introduction





Large range of fans:
flow rate efficiency, high protection rating, quick installation and easier maintenance to secure all the applications.

Airing Systems



Innovation





Smart Airing Systems
The smartest way to keep critical equipment operating as expected in nominal conditions:
- With fan filters not clogged by the dust.
- By getting real life status of your fan architecture.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.



Easy Maintenance

Quick filter replacement

- Quick, easy and safe replacement of the filter installed in the fan, even during operation



Quality of Components

Selection of motors

- Improved flow rate and longer service life
- Large range of input voltages available on all motors delivered as standard, with 50/60-Hz alternating current or direct current



Easy Installation

Quick installation

- Reliable fixing with the assisted fixing device and the system of multi-thickness fixing-clips
- Easy to invert
- To operate as extractors, all the motors can be inverted by simply removing four screws



Certifications

- UL-certified Products



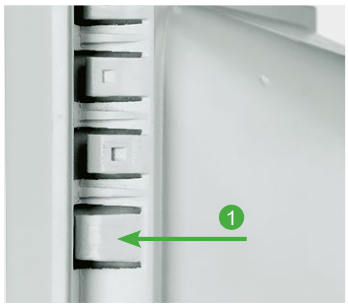
Optimized Flow Rate: Average Increase of 50%

- Maximum use of surface
- Minimal pressure loss

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

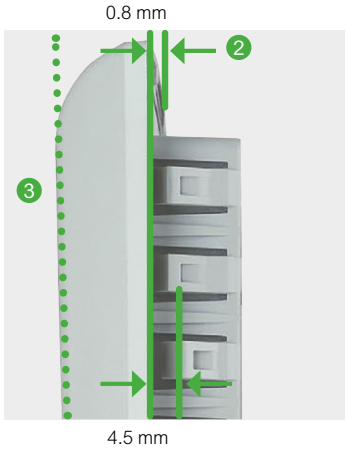
Introduction

High Protection Rating: IP54 as Standard



1 Fixing Guide

- To center the body of the fan on the wall of enclosure
- To correct machining faults
- To facilitate the correct operation of the fixing "clips"

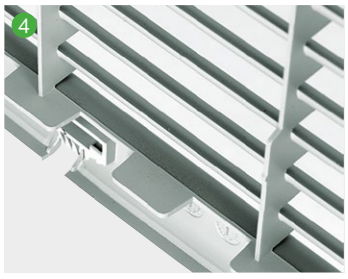


2 Multi-Thickness Fixing-Clips

- To help guarantee easy and reliable fixing of the airing system
- With a thickness of 0.8 to 4.5 mm, with no fixings

3 Inclined Profile of the Grille

- To help protect the filter against vertical spraying: each slat is protected by the slat above it, with the external dimensions remaining small



4

- IP54 (IP55 with the cover) A patented system allows the evacuation of water absorbed by the filter
- In particular during high-pressure spraying



5 Hot-Fitted Sealing Gasket

- The polyurethane gasket, hot cast, helps guarantee a long-lasting seal



6 Effective Filter-Retaining System

- The system for holding the synthetic filter in the cavity of the filter holder helps ensure a protection rating of IP54, even under the most difficult conditions

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

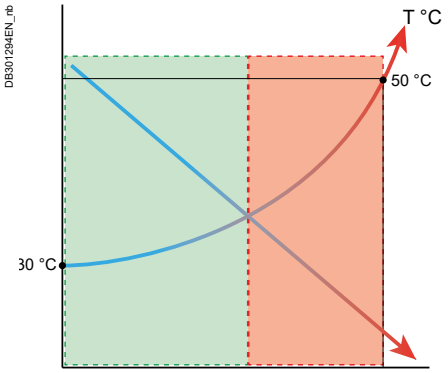
Forced Airing

ClimaSys CV: Smart Ventilation System

General Information

Problems Generated by Dirty Filters

60% of installations face quality issues caused by dirty filters





Efficient Inefficient



Declining lifespan

Equipment

> Product Malfunction or Breakdown of the Panel
- Overheating issues.
- Conductivity issues due to dust.
- Damage to internal moving parts.

> Reduced Lifespan of Installed Equipment

> Low energy Efficiency of the Panel
- Overconsumption of the fan.

> Safety Issues
- Risk of fire/burning.

All these issues are due to the presence of dust and/ or airing malfunction; They can be avoided by using a smart airing system.

HEALTH OF EQUIPMENT = FILTER'S DUST LEVEL

The Concept of the ClimaSys Smart Airing System (CSVS)

The ClimaSys Smart Airing System is a smart, closely integrated network that makes your life easier.



90% Savings on Filter Maintenance

> Use Corrective and Predictive Maintenance of the Airing System to:
- Improve CAPEX and OPEX of the installation.
- Improve maintenance and operation of the installation.
- Improve peace of mind.

Reduce maintenance cost for new and existing installations.

> Functions of the CSVS Systems:

Detect general poor health of the enclosure by monitoring:
- Input/output temperature.

Detect fan issues by monitoring:
- Air flow temperature.
- Current level, consumed energy.
- Blade speed measurement.
- Used and remaining (approximate) lifespan.

Detect grid filter issues:
- Air flow temperature.
- Dust level (0% clean – 100% dirty).
- Number of replacements.
- Remaining time to next replacement.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

The Technical Solution

2 Sensors…

PB503557_30_nb



Dust sensor (patented)
NSYCCAFSDUST

Composed of an optical sensor which detects the filter dirt level + temperature sensor

PB503552_30_nb



Fan Sensor
NSYCCARPM

Composed of:
RPM sensor to control fan rotation and transported air temperature Toroidal sensor to measure fan consumption

PB503542_30_nb



… Connected to a Controller Relaying Information and Alarms

Filterstat™ Controller ClimaSys CC DG **NSYCCOFST•••V**

Information displayed on Filterstat's controller display

- **Detect general poor health of enclosure by monitoring:**
  - Input/output temperature.
- **Detect fan issues by monitoring:**
  - Air flow temperature
  - Current level, consumed energy
  - Blade speed measurement
  - Used and remaining (approximate) lifespan.
- **Detect grid filter issues:**
  - Air flow temperature
  - Dust level (0% clean – 100% dirty)
  - Number of replacements
  - Remaining time before next replacement.

The alarms
The system offers different types of alarms for notification when something is not right:
Alarms
Dust filter alarm: Filter capacity below user-defined level. 0%-60% (LED green), 60%-80% (LED orange), >80% (LED flashing red)
No power supply to fan: Fan is running (there is an rpm reading but the current sensor shows a 0 mA reading).
Fan rpm slow: Fan speed is below a user-predefined level.
Fan flaps blocked: Consumption in a fan is detected but the rpm speed is zero.
Over-temperature alarm on airflow: Fan exceeds a user-defined threshold.
Over-temperature or under-temperature alarm: On inlet or outlet air from grids.
Fan lifespan over: The fan lifetime has almost expired and it should be replaced (front LEDs light up purple).
Δt deviation: Δt deviation is greater that a user-predefined threshold.
Remote sensor not connected/broken: A device in the network is disconnected.

Thermal Network Architecture

PB503530_104_nb



> The Greenfield Solution for New Installations

We offer a range of digital devices that can be connected together and optionally also to a remote supervisor.
See page 410

> The Brownfield Kit for Retrofit Installations

Easy upgrading of an existing installation to a digital one.
See page 410

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

ClimaSys CV: Smart Ventilation System

General Information

Build your Greenfield Solution for a New Installation

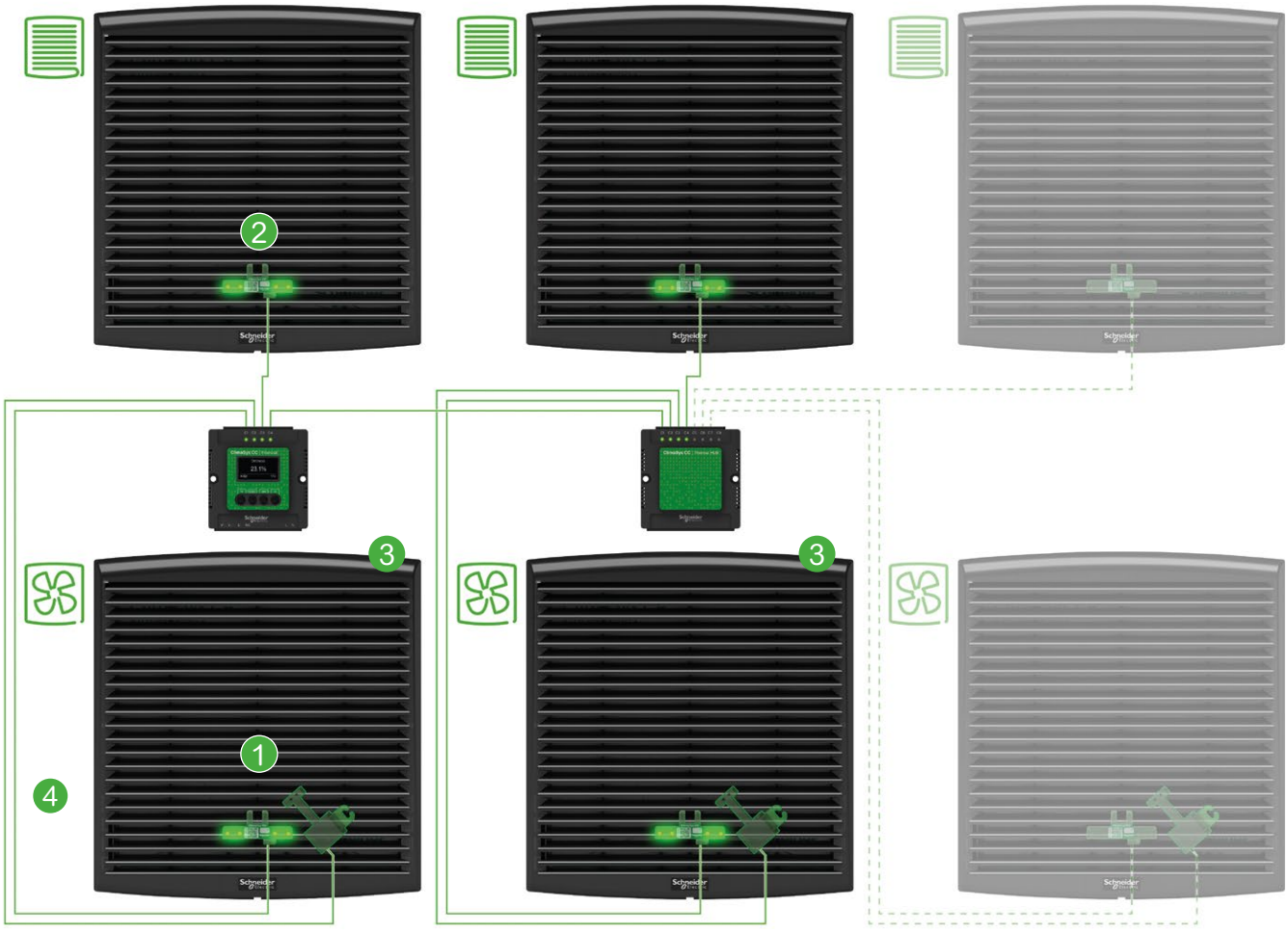
The nucleus of the system is the ClimaSys Filterstat™ controller that collects information from filter and fan sensors across all of your enclosures.

DB301288_57_nb



Easy Product Selection
with the ProClima Selection Tool.

PB503530_68_nb



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Select Your Smart Fan

1



See details page 412

Select Your Smart Grid

2



See details page 415

New ClimaSys Smart Grid Offer

Complete Smart Grid that includes:

- A dust Sensor.
- A smart Filter G2, G3 smart filter to be order separately (**See** page 415).

Grid cut-out (mm²)	References
92x92	**NSYCAG92DG**
125x125	**NSYCAG125DG**
223x223	**NSYCAG223DG**
291x291	**NSYCAG291DG**

Select Your Controller and Potential Thermal Hubs to Digitalize More Than 1 Enclosure

3



See details page 414

Filterstat Controllers (4 Ports) and Thermal Hubs (8 Ports)

- Trim frame IP55 for installing the Filterstat Controller and thermal hub on enclosure doors, side panels etc.

Voltage (V)	References
30 V AC/DC	**NSYCCOFST30V**
90-250 V AC	**NSYCCOFST90250V**
30 V AC/DC	**NSYCCOFSEM8U1**
90-250 V AC	**NSYCCOFSEM8U2**

Modular frame IP55

Material and color	References
same as controller	**NSYCCOFR55**

Select Your Communication Cables

4



See details page 414

Filterstat Communication Cable

Black unshielded cable with 2 connectors on each end.
Material: PVC.

Length (mm)	References
1000	**NSYCCA100MFST**
2000	**NSYCCA200MFST**
3000	**NSYCCA300MFST**
4000	**NSYCCA400MFST**
5000	**NSYCCA500MFST**

Note: Control devices (thermostat, hygrostat, hygrotherm) must be ordered separately.

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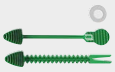
ClimaSys CV: Smart Ventilation System

Characteristics

- Characteristics: The Smart fans are equipped with an axial motor, a protective housing on the front, rear surfaces, and a Smart filter with Dust sensor and a Fan sensor with infrared technology. The external smokey-colored grid displays the status of the airing functions through the LED colors of the Dust sensor. This Smart filter can be replaced for maintenance during operation without risk of contact with the rotating element.
- Material of external grids: Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0.
- Color of external grids: Smokey black RAL 9005
- Conditions of use: The external temperature must not exceed 30 °C and must be more than 5 °C lower than the temperature required in the enclosure. The Smart filters that equip the Smart fans must be replaced when the alarm is triggered by the Filterstat controller (see more details page 409)
  Storage Temperature: -40…+ 70 °C
- Ingress protection rating (according to IEC 60529): IP54
- If the enclosure contains electronics, material sensitive to dust deposits or if it is needed to use several fans and grills in the same enclosure, we highly recommend using ProClima and a solution with better filtering using a G3 filter or a higher IP (cooling option as example). In any case, do not hesitate to contact our sales teams to collaborate on your project.
- Mechanical protection rating (according to IEC 62262): IK08
- Installation: The cut-out template supplied with the device avoids the need for marking and helps protect the surface of the enclosure during handling.
- Options: For maintenance replacement of Smart filters please see spare parts references, page 415

Free flow rate with standard filter (m^3/h)	Flow rate with outlet grille(s) (m^3/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dimensions (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
34 (50 Hz) 35 (60 Hz)	21 (50 Hz) 22 (60 Hz)	29 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70 °C	29 Pa
74 (50 Hz) 87 (60 Hz)	52 (50 Hz) 61 (60 Hz)	60 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60 °C	50 Pa
142 (50 Hz) 170 (60 Hz)	130 (50 Hz) 151 (60 Hz)	138 (50 Hz) 152 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60 °C	50 Pa
259 (50 Hz) 307 (60 Hz)	209 (50 Hz) 251 (60 Hz)	218 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+ 70 °C	158 Pa
502 (50 Hz) 526 (60 Hz)	412 (50 Hz) 448 (60 Hz)	420 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60 °C	140 Pa
638 (50 Hz) 603 (60 Hz)	500 (50 Hz) 462 (60 Hz)	528 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60 °C	170 Pa
731 (50 Hz) 603 (60 Hz)	598 (50 Hz) 368 (60 Hz)	609 (50 Hz)	396 V...466 V (400 V)	126/126 W (0.226/0.232 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60 °C	170 Pa

How to Identify Whether Your ClimaSys CV Fan Has Been Upgraded to Install the CSVS Solution

Your installation				Installation of CVS solution		
Greenfield 	**NSYCV•••DG**	Schneider Electric	>	☑ It's possible to install the CSVS solution		
Brownfield 	**NSYCV•••LPF**	Schneider Electric	>	☒ You need to order **NSYCCABLK**		
	NSYCV•••LPF	Schneider Electric	>	☑ It's possible to install the CSVS solution		

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

ClimaSys CV: Smart Ventilation System

Characteristics





	by cable ✶ Forced-airing fan 38 m³/h	by faston (1) Forced-airing fan 85 m³/h	by faston (1) Forced-airing fan 165 m³/h	by faston (1) Forced-airing fan 300 m³/h	by terminal block Forced-airing fan 560-850 m³/h
	NSYCVF38M230DG	-	-	-	-
	-	**NSYCVF85M230DG**	-	-	-
	-	-	**NSYCVF165M230DG**	-	-
	-	-	-	**NSYCVF300M230DG**	-
	-	-	-	-	**NSYCVF560M230DG**
	-	-	-	-	**NSYCVF850M230DG**
	-	-	-	-	**NSYCVF850M400DG**

(1) Fan models with connection are delivered with the connection cord included (2 meters).

Note: The fan **NSYCVF38M230DG** MUST NOT be connected to a power conversion module, an inverter or UPS!

High-Visibility LED Indicators



Dust filter alarm 0%-60%



Dust filter alarm 60%-80%



Dust filter alarm >80%



Fan lifespan exhausted



PING function Identification of the sensor on the panel (flashing blue color)

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

ClimaSys CV: Smart Ventilation System

Characteristics

Filterstat Controllers (4 Ports) and Thermal Hubs (8 Ports)


NSYCCOFST30V

- Trim frame IP55 for installing the Filterstat Controller and thermal hub on enclosure doors, side panels etc.

Characteristics	Voltage	References
Filterstat Controllers	30 V AC/DC	**NSYCCOFST30V**
Filterstat Controllers	90-250 V AC	**NSYCCOFST90250V**


NSYCCOFSEM8U1

Characteristics	Voltage	References
Thermal Hub	30 V AC/DC	**NSYCCOFSEM8U1**
Thermal Hub	90-250 V AC	**NSYCCOFSEM8U2**

5

Modular frame IP55


NSYCCOFR55

Characteristics	References
Modular frame	**NSYCCOFR55**

Filterstat Communication Cable


NSYCCA50MFST

- Black unshielded cable with 2 connectors on each side.
- Material: PVC.

Characteristics	References
Filterstat communication cable	**NSYCCA100MFST**
Filterstat communication cable	**NSYCCA200MFST**
Filterstat communication cable	**NSYCCA300MFST**
Filterstat communication cable	**NSYCCA400MFST**
Filterstat communication cable	**NSYCCA500MFST**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Smart Grid Systems

Complete Smart Grids

- A Dust Sensor.
- A SmartFilter G2.
- Material: Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0.
- Color: Smokey black RAL 9005.
- Ingress protection rating (according to IEC 60529): IP54.



NSYCAG92DG

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References
Complete Smart Grid	137	117	13	92 x 92	**NSYCAG92DG**
Complete Smart Grid	170	150	15	125 x 125	**NSYCAG125DG**
Complete Smart Grid	268	248	18	223 x 223	**NSYCAG223DG**
Complete Smart Grid	336	316	18	291 x 291	**NSYCAG291DG**

Smart Filters

- Set of 5 Smart filters for replacement on Smart Fans and Smart Grids. For fans and grilles.
- Material: Polyester.
- Filters according to ISO 16890.
- Color: White with green lettering.



NSYCAF92DG

Characteristics	Height (mm)	Width (mm)	Cut-out (mm)	References
External Smart Grid, G2 M1 filters	137	117	92 x 92	**NSYCAF92DG**
External Smart Grid, G2 M1 filters	170	150	125 x 125	**NSYCAF125DG**
External Smart Grid, G2 M1 filters	268	248	223 x 223	**NSYCAF223DG**
External Smart Grid, G2 M1 filters	336	316	291 x 291	**NSYCAF291DG**
External Smart Grid, G3 M1 filters	170	150	125 x 125	**NSYCAF125G3DG**
External Smart Grid, G3 M1 filters	268	248	223 x 223	**NSYCAF223G3DG**
External Smart Grid, G3 M1 filters	336	316	291 x 291	**NSYCAF291G3DG**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

ClimaSys CV: Smart Ventilation System

Accessories

Dust Sensor



NSYCCAFSDUST

- Individual Dust Sensor ready to be implemented on any existing ClimaSys CV fan or ClimaSys CA grids in the Brownfield installation or used as spare part.

Characteristics	References
Dust Sensor	**NSYCCAFSDUST**

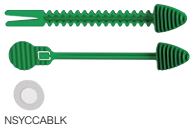
Fan Sensor


NSYCCARPM

- Individual Fan Sensor ready to be implemented on any existing fan in the Brownfield installation or used as spare part.

Characteristics	References
Fan Sensor	**NSYCCARPM**

10 Stickers and Retainer Flaps Mini-Tool Kit

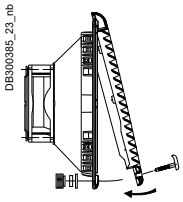

NSYCCABLK

- Tool kit for digitalizing fans in Brownfield installations without opening fan motor rear grids.

Characteristics	References
10 stickers and retainer flaps mini-tool kit	**NSYCCABLK**

Anti-Vandalism Kit


NSYCAAPV



- Helps prevent the grid from being opened from the outside.
- The unlocking thumbwheel is accessed from the inside of the enclosure.
- Color: RAM 7011.

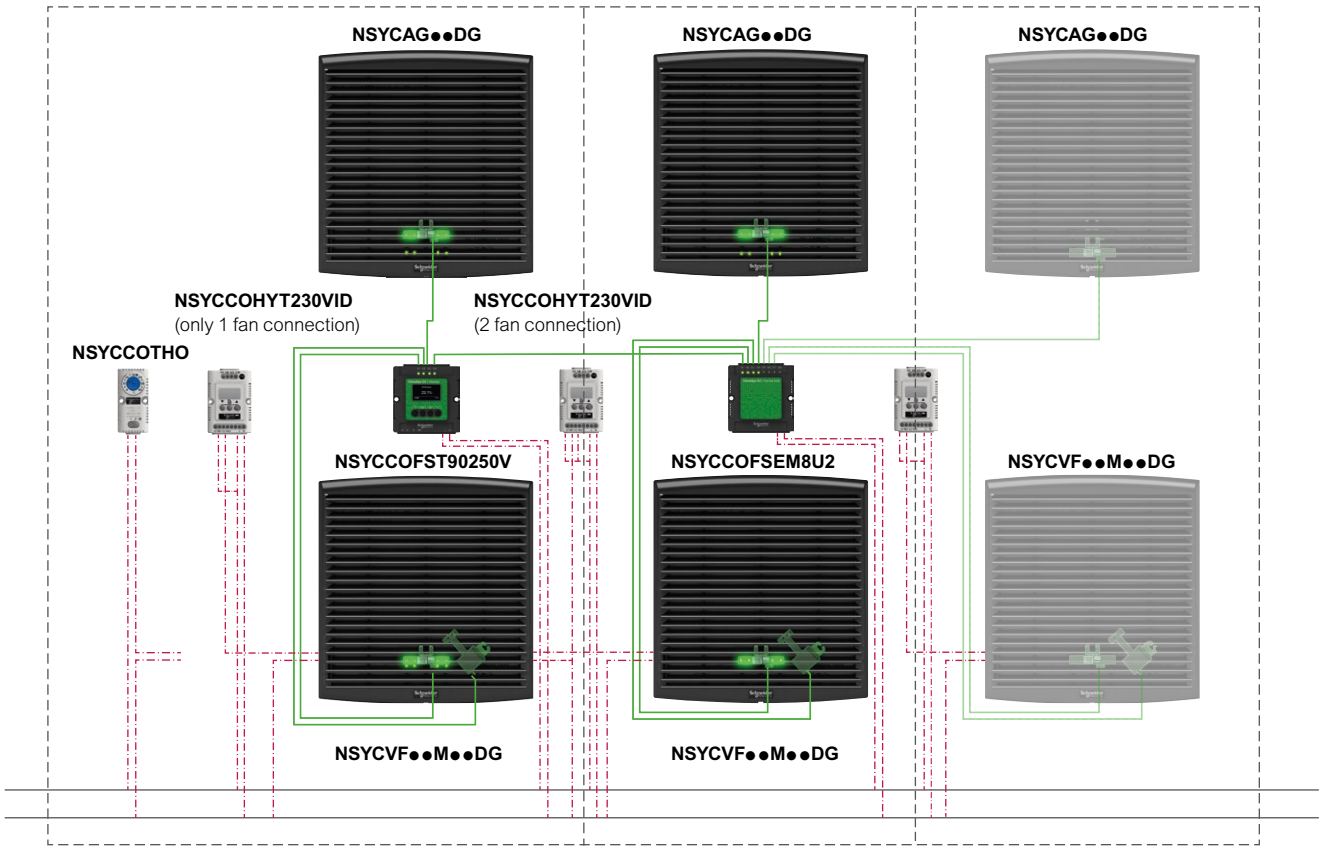
Supply:
Minor packaging 2

Characteristics	References
Anti-vandalism kit	**NSYCAAPV**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

ClimaSys (CSVS) General Wiring Diagram

NSYCCOFST30V



5

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

ClimaSys CV: Standard Ventilation System

Characteristics

- Characteristics: The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles. This filter can be replaced during operation without risk of contact with the rotating element.
- Material of external grids: Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0
- Color external grids: RAL 7035 gray as standard
- Conditions of use: The external temperature must not exceed 30 °C and must be more than 5 °C lower than the temperature wanted in the enclosure. The filters that equip the fans must be cleaned and replaced regularly. The ambient air must be relatively clean and overfrequent filter replacement should be avoided. Bear in mind the pressure losses caused by the outlet element (grille with filter, airing louvre or simple opening) when determining the fan flow rate
- Storage Temperature: -40…+ 70 °C
- Ingress protection rating (according to IEC 60529): IP54
- If the enclosure contains electronics, material sensitive to dust deposits or if it is needed to use several fans and grills in the same enclosure, we highly recommend using ProClima and a solution with better filtering using a G3 filter or a higher IP (cooling option as example). In any case, do not hesitate to contact our sales teams to collaborate on your project.
- Mechanical protection rating (according to IEC 62262): IK08
- UL recognized (cURus). Rated Type 12 according to UL50E.
- Installation: The cut-out template supplied with the device avoids the need for marking and helps protect the surface of the enclosure during handling
- All fan references are also delivered with one anti-insect filter
- Options: The device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles

Free flow rate with standard filter (m^3/h)	Flow rate with outlet grille(s) (m^3/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dim. H x L x W (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
38 (50 Hz) 39 (60 Hz)	25 (50 Hz) 26 (60 Hz)	33 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70 °C	29 Pa
38 (50 Hz) 39 (60 Hz)	27 (50 Hz) 28 (60 Hz)	35 (50 Hz)	75 V...125 V (115 V)	3.3/3.5 W (0.16/0.16 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70 °C	29 Pa
58	39	47	10 V...27.6 V (24 V DC)	3.6 W (0.18 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+ 70 °C	29 Pa
44	34	41	36 V...56 V (48 V DC)	3.6 W (70 mA)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+ 70 °C	29 Pa
85 (50 Hz) 98 (60 Hz)	63 (50 Hz) 72 (60 Hz)	71 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60 °C	50 Pa
79 (50 Hz) 92 (60 Hz)	65 (50 Hz) 74 (60 Hz)	73 (50 Hz)	75 V...126 V (115 V)	16/15 W (0.207/0.179 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60 °C	50 Pa
80	57	77	10 V...27.6 V (24 V DC)	7.6 W (0.30 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+ 70 °C	50 Pa
79	59	68	25 V...55.2 V (48 V DC)	8 W (0.173 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+ 70 °C	50 Pa
165 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 175 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60 °C	50 Pa
164 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 179 (60 Hz)	75 V...126 V (115 V)	15.5/14.4 W (0.20/0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60 °C	50 Pa
188	171	179	10 V...27.6 V (24 V DC)	8 W (0.3 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+ 70 °C	50 Pa
193	171	179	25 V...55.2 V (48 V DC)	8.7 W (0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+ 70 °C	50 Pa
302 (50 Hz) 350 (60 Hz)	260 (50 Hz) 307 (60 Hz)	268 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+ 70 °C	158 Pa
302 (50 Hz) 350 (60 Hz)	263 (50 Hz) 307 (60 Hz)	271 (50 Hz)	75 V...126 V (115 V)	36/36 W (0.35/0.32 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10…+70 °C	158 Pa
262	221	229	12 V...30 V (24 V DC)	13 W (0.53 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10...+ 70 °C	158 Pa
247	210	218	25 V...60 V (48 V DC)	11 W (0.24 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10…+70 °C	158 Pa
562 (50 Hz) 586 (60 Hz)	473 (50 Hz) 477 (60 Hz)	481 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60 °C	140 Pa
582 (50 Hz) 586 (60 Hz)	485 (50 Hz) 477 (60 Hz)	494 (50 Hz)	103 V...122 V (115 V)	65/83 W (0.60/0.72 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60 °C	140 Pa
838 (50 Hz) 803 (60 Hz)	718 (50 Hz) 568 (60 Hz)	728 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60 °C	170 Pa
983 (50 Hz) 944 (60 Hz)	843 (50 Hz) 642 (60 Hz)	854 (50 Hz)	103 V...122 V (115 V)	145/182 W (1.279/1.6 A)	78/77 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60 °C	170 Pa
931 (50 Hz) 803 (60 Hz)	798 (50 Hz) 568 (60 Hz)	809 (50 Hz)	400 V (0, +10%)	126/126 W (0.21/0.26 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60 °C	170 Pa

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ClimaSys CV: Standard Ventilation System

Characteristics











by cable ★ Forced-airing fan 38 m³/h	by faston (1) Forced-airing fan 85 m³/h	by faston (1) Forced-airing fan 165 m³/h	by faston (1) Forced-airing fan 300 m³/h	by terminal block Forced-airing fan 560-850 m³/h
NSYCVF38M230PF ★	-	-	-	-
NSYCVF38M115PF ★	-	-	-	-
NSYCVF38M24DPF	-	-	-	-
NSYCVF38M48DPF	-	-	-	-
-	**NSYCVF85M230PF**	-	-	-
-	**NSYCVF85M115PF**	-	-	-
NSYCVF85M24DPF	-	-	-	-
-	**NSYCVF85M48DPF**	-	-	-
-	-	**NSYCVF165M230PF**	-	-
-	-	**NSYCVF165M115PF**	-	-
NSYCVF165M24DPF	-	-	-	-
-	-	**NSYCVF165M48DPF**	-	-
-	-	-	**NSYCVF300M230PF**	-
-	-	-	**NSYCVF300M115PF**	-
NSYCVF300M24DPF	-	-	-	-
-	-	-	**NSYCVF300M48DPF**	-
-	-	-	-	**NSYCVF560M230PF**
-	-	-	-	**NSYCVF560M115PF**
-	-	-	-	**NSYCVF850M230PF**
-	-	-	-	**NSYCVF850M115PF**
-	-	-	-	**NSYCVF850M400PF**

(1) Fan models with connection are delivered with the connection cord included (2 metres).

Note: The fan **NSYCVF38M230PF** and **NSYCVF38M115PF** MUST NOT be connected to a power conversion module, an inverter or UPS!

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ClimaSys CV: Standard Ventilation System

Accessories

Airing Systems, IP54 Outlet Grilles

- Delivered with G2 M1 synthetic standard filter according to ISO 16890 and with an anti-insect filter.
- Material: Injected thermoplastic polycarbonate.
- Color: RAL 7035 gray.
- Ingress protection rating (according to IEC 60529): IP54.
- UL recognized (cURus), rated Type 12 according to UL50E.


NSYCAG92LPF

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References
IP54 outlet grilles	137	117	13	92 x 92	**NSYCAG92LPF**
IP54 outlet grilles	170	150	15	125 x 125	**NSYCAG125LPF**
IP54 outlet grilles	268	248	18	223 x 223	**NSYCAG223LPF**
IP54 outlet grilles	336	316	18	291 x 291	**NSYCAG291LPF**

Filters

Supply:
- G2 M1 synthetic standard filters, Filters for greasy environments G2 M1, G3 M1 synthetic fine filters: 5 units
- Stainless-steel anti-insect filters: 1 unit

- For fans and grilles.
- Filters according to ISO 16890.

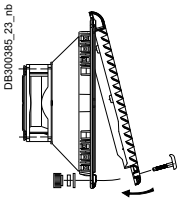

NSYCAF223T

Characteristics	Height (mm)	Width (mm)	Cut-out (mm)	References
G2 M1 synthetic standard filters	137	117	92 x 92	**NSYCAF92**
G2 M1 synthetic standard filters	170	150	125 x 125	**NSYCAF125**
G2 M1 synthetic standard filters	268	248	223 x 223	**NSYCAF223**
G2 M1 synthetic standard filters	336	316	291 x 291	**NSYCAF291**
Filters for greasy environments G2 M1	170	150	125 x 125	**NSYCAF125O**
Filters for greasy environments G2 M1	268	248	223 x 223	**NSYCAF223O**
Filters for greasy environments G2 M1	336	316	291 x 291	**NSYCAF291O**
G3 M1 synthetic fine filters	170	150	125 x 125	**NSYCAF125T**
G3 M1 synthetic fine filters	268	248	223 x 223	**NSYCAF223T**
G3 M1 synthetic fine filters	336	316	291 x 291	**NSYCAF291T**
Stainless-steel anti-insect filters	137	117	92 x 92	**NSYCAF92M**
Stainless-steel anti-insect filters	170	150	125 x 125	**NSYCAF125M**
Stainless-steel anti-insect filters	268	248	223 x 223	**NSYCAF223M**
Stainless-steel anti-insect filters	336	316	291 x 291	**NSYCAF291M**

Anti-Vandalism Kit


NSYCAAPV

- Helps prevent the grid from being opened from the outside.
- The unlocking thumbwheel is accessed from the inside of the enclosure.
- Color: RAL 7011.



Supply:
2 items per kit

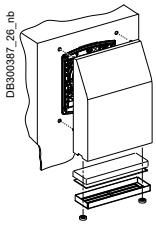
Characteristics	References
Anti-vandalism kit	**NSYCAAPV**

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Covers IP55

- This solution helps protect the fan or grille from any direct spray.
- The cover is the preferred solution to help ensure the following:
  - an efficient air flow for cooling,
  - IP55 rating.
- Material: 2 materials available:
  - steel painted with epoxy polyester powder (RAL 7035 gray) for indoor applications,
  - stainless-steel 304L for food and beverage applications for indoor applications. For outdoor applications please contact Schneider sales team or use the reference **NSYCAG223LFHD**.
- Ingress protection rating (according to IEC 60529): IP55.
- Mechanical protection rating (according to IEC 62262): IK10.
- Certifications: UL Recognized (cURus). Rated 12 and 3R according to UL 50E.
- Installation: Double insulation maintained if installed in an insulated enclosure. The cover is placed over the fan or the grille with a filter located at the bottom of the cover to help prevent the entry of particles. Easy access to the filter: Only two screws needed. When mounting: Remove the external part of the fan or the grille as well as the filter.

(1) Values given for a fan powered at 230 V. For other voltages, the values are similar



Supply:
It is necessary to order 1 fan + 1 grille + 2 covers to have a complete system


NSYCAP125LZF

Characteristics	Flow rate (m³/h) with cover (1)		Dimensions (mm)		References
	Free	With 1 outlet grille	External	Cut-out	
Steel painted RAL 7035 gray	74	53	240 x 180 x 60	125 x 125	**NSYCAP125LZF**
Steel painted RAL 7035 gray	110	82	350 x 305 x 80	223 x 223	**NSYCAP223LZF**
Steel painted RAL 7035 gray	165	123	350 x 305 x 80	223 x 223	**NSYCAP223LZF**
Steel painted RAL 7035 gray	316	265	430 x 373 x 105	291 x 291	**NSYCAP291LZF**
Steel painted RAL 7035 gray	502	430	430 x 373 x 105	291 x 291	**NSYCAP291LZF**
Stainless-steel 304L	74	53	240 x 180 x 60	125 x 125	**NSYCAP125LXF**
Stainless-steel 304L	110	82	350 x 305 x 80	223 x 223	**NSYCAP223LXF**
Stainless-steel 304L	165	123	350 x 305 x 80	223 x 223	**NSYCAP223LXF**
Stainless-steel 304L	316	265	430 x 373 x 105	291 x 291	**NSYCAP291LXF**
Stainless-steel 304L	502	430	430 x 373 x 105	291 x 291	**NSYCAP291LXF**

Spare Filter for Cover

Supply:
5 items per kit


NSYCAF125L55

Characteristics	Flow rate (m³/h) with cover (1)		Cover references	References
	Free	With 1 outlet grille		
Spare filter for cover	74	53	**NSYCAP125LZF**	**NSYCAF125L55**
Spare filter for cover	110	82	**NSYCAP223LZF**	**NSYCAF223L55**
Spare filter for cover	165	123	**NSYCAP223LZF**	**NSYCAF223L55**
Spare filter for cover	316	265	**NSYCAP291LZF**	**NSYCAF291L55**
Spare filter for cover	502	430	**NSYCAP291LZF**	**NSYCAF291L55**

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ClimaSys CV: Standard Ventilation System

Accessories

EMC Airing Systems

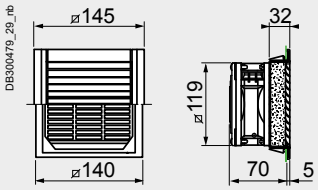
EMC IP54 Fan

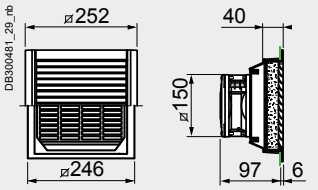
- To effectively help protect the equipment against electromagnetic interference, the EMC fan is equipped with:
  - a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL94 V0),
  - a metal grille attached to the frame,
  - a beryllium gasket to help ensure conductivity between the perimeter of the fan unit and the enclosure.
- Ingress protection rating (according to IEC 60529): IP54.

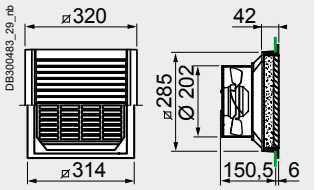
For more details see **page 430**


NSY17990

Characteristics	Flow rate (m^3/h)	Voltage (V)	Dimensions (mm)		References
			External	Cut-out	
EMC IP54 fan	61	230	145 x 145 x 70	126 x 126	**NSY17990**
EMC IP54 fan	156	230	252 x 252 x 97	224 x 224	**NSY17991**
EMC IP54 fan	480	230	320 x 320 x 150	292 x 292	**NSY17992**







EMC IP54 Outlet Grille

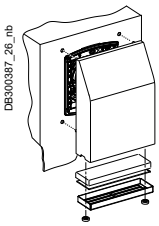
- Grille equipped with:
  - a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL 94 V-0),
  - a metal grille attached to the frame,
  - a beryllium gasket to help ensure conductivity between the perimeter of the fan unit and the enclosure.
- Ingress protection rating (according to IEC 60529): IP54.


NSY17996

Characteristics	Dimensions (mm)		References
	External	Cut-out	
EMC IP54 outlet grille	145 x 145 x 70	126 x 126	**NSY17996**
EMC IP54 outlet grille	252 x 252 x 97	224 x 224	**NSY17997**
EMC IP54 outlet grille	320 x 320 x 150	292 x 292	**NSY17998**

EMC IP55 Cover

- This solution provides protection against electromagnetic interference and helps ensure IP55 ingress protection.
- The EMC cover is installed on the fans or standard IP54 outlet grilles.
- The cover is made of painted steel for outdoor use and completely covers the fan or outlet grille.
- Conductivity is obtained by means of:
  - a conductive painting (2 Ω),
  - a conductive copper braid.
- Color: RAL 7035 gray.
- Ingress protection rating (according to IEC 60529): IP55.
- Mechanical protection rating (according to IEC 62262): IK10.



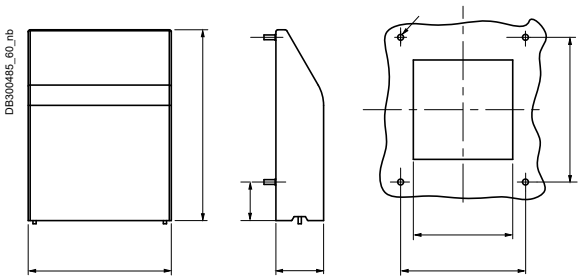
(1) Values given for a fan powered at 230 V. For other voltages, the values are similar


NSYCAP125LE

Characteristics	Flow rate (m^3/h) with cover (1)		Dimensions (mm)		References
	Free	With 1 outlet grille	External	Cut-out	
Sheet steel painted for outdoor applications, RAL 7035 gray	74	53	240 x 180 x 60	125 x 125	**NSYCAP125LE**
Sheet steel painted for outdoor applications, RAL 7035 gray	110	82	350 x 305 x 80	223 x 223	**NSYCAP223LE**
Sheet steel painted for outdoor applications, RAL 7035 gray	165	123	350 x 305 x 80	223 x 223	**NSYCAP223LE**
Sheet steel painted for outdoor applications, RAL 7035 gray	316	265	430 x 373 x 105	291 x 291	**NSYCAP291LE**
Sheet steel painted for outdoor applications, RAL 7035 gray	502	430	430 x 373 x 105	291 x 291	**NSYCAP291LE**

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Dimensions of IP55 and EMC Covers



Dimensions (mm)							Number of fixing points	Cover references		
A	B	C	D	E	F	G		IP55		EMC
180	240	49	49	49	157	182	4	**NSYCAP125LZF**	**NSYCAP125LXF**	**NSYCAP125LE**
305	350	61	61	61	283	280	8	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAP223LE**
373	430	73	73	73	351	348	8	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAP291LE**

Spare Filter for Cover

(1) Values given for a fan powered at 230 V. For other voltages, the values are similar.

Supply:
5 items per kit.

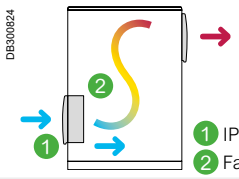
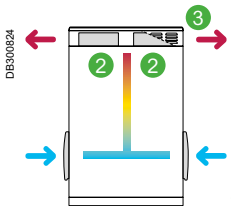

NSYCAF125L55

Characteristics	Flow rate (m³/h) with cover (1)		Cover references	References
	Free	With 1 outlet grille		
Spare filter for cover	74	53	**NSYCAP125LE**	**NSYCAF125L55**
Spare filter for cover	110	82	**NSYCAP223LE**	**NSYCAF223L55**
Spare filter for cover	165	123	**NSYCAP223LE**	**NSYCAF223L55**
Spare filter for cover	316	265	**NSYCAP291LE**	**NSYCAF291L55**
Spare filter for cover	502	430	**NSYCAP291LE**	**NSYCAF291L55**

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ClimaSys CV: Standard Ventilation System

Airing Architectures

	S-Line	T-Line
	 1 IP55 metal grille 2 Fanbox	 2 Fanbox 3 Roof airing module
Architecture benefits	• Most common and competitive architecture • Maximum heat dissipation to extract 800 W-1000 W • ΔT° of 5 °C • Easy access to mount-dismount fanbox • Air flow in horizontal axis	• High thermal extraction capacity up to 1500 W • Noise level with 1 fan: 55 dB (A) when installed inside the upper airing module • ΔT° of 5 °C • Air flow in vertical axis

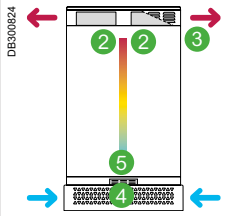
	IP55 metal grille		Fanbox		IP55 metal grille		Fanbox (1 filter NSYCAF190 for each Fanbox)	Roof airing module	
	Door	Side	Door	Side	Door	Side			
Polyester outdoor HD enclosure									
References	**Quantity to be installed**				**Quantity to be installed**				**References**
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1054	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	**NSYPCVR54HD**
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1254	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	**NSYPCVR54HD**
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
Steel outdoor HD enclosure									
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	-
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	-
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	-
NSYSFNHD18640	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	-	**NSYSFNCVR64HD**
NSYSFNHD18840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	-	**NSYSFNCVR84HD**
NSYSFNHD18860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	-	**NSYSFNCVR86HD**
NSYSFNHD18880	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	-	**NSYSFNCVR88HD**
NSYSFNHD20660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	-	**NSYSFNCVR66HD**
NSYSFNHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	-	**NSYSFNCVR84HD**
NSYSFNHD20860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	-	**NSYSFNCVR86HD**

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ClimaSys CV: Standard Ventilation System

Airing Architectures

I-Line



2 Fanbox
3 Roof airing module
4 Ventilated plinths
5 IP54 grille

This table helps to configure thermal architectures, but it is highly recommended to use the ProClima Software to help ensure the right thermal solution according to the selected architecture.

- Integrated architecture particularly suitable for public areas
- High thermal extraction of calorific energy up to 1500 W
- Noise level with 1 fan: 55 dB (A) when installed inside the upper airing module
- High flow rate and extraction performance
- Air flow in vertical axis

IP54 outlet grille (NSYCAG223LPF + G3 filter NSYCAF223T)		Ventilated plinths		Fanbox (1 filter NSYCAF190 for each Fanbox)		Roof airing module
Quantity to be installed		References		Quantity to be installed		References
-	-	-	-	-	-	-
-	-	-	-	-	-	-
1 to 2	-	-	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR76HD**
1	-	-	-	1	1	**NSYPCVR54HD**
1	-	-	-	1	1	**NSYPCVR54HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR74HD**
1 to 3	-	-	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	-	-	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	-	-	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	-	-	-	1 to 3	1	**NSYPCVR126HD**
1	-	-	-	1	1	**NSYPCVR54HD**
1	-	-	-	1	1	**NSYPCVR54HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR76HD**
1 to 3	-	-	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	-	-	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	-	-	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	-	-	-	1 to 3	1	**NSYPCVR126HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	-	-	-	1 to 2	1	**NSYPCVR74HD**

1	1	**NSYSPFVX6200**	**NSYSPSX3200**	-	-	-
1 to 2	1	**NSYSPFVX8200**	-	1 to 2	1	-
1	1	**NSYSPFVX6200**	-	1	1	-
1	1	**NSYSPFVX8200**	-	1 to 2	1	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
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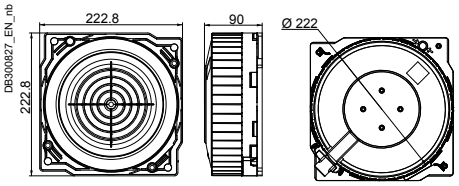
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ClimaSys CV: Standard Ventilation System

Airing System Heavy-Duty

Fanbox


NSYCVF550M24FB



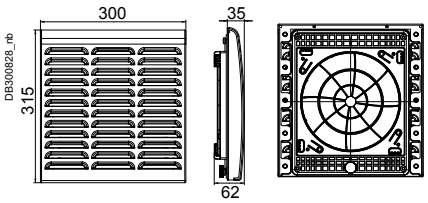
- Free flow rate: 550 m3/h (50/60 Hz).
- UL Recognized (cURus). Rated Type 12.
- Minimal depth inside the enclosure (90 mm).
- Allows multiple cooling architectures (**see page 424 and 425**).
- Material: polyamide.
- Color: RAL 7016 dark gray.

Supply:
1 (grille not included)

Characteristics	Voltage	References
Fanbox	24 V DC	**NSYCVF550M24FB**
Fanbox	115 V AC	**NSYCVF550M115FB**
Fanbox	230 V AC	**NSYCVF550M230FB**

IP55 HD Metal Grille


NSYCAG223LFHD



- Slim grille (35 mm external depth).
- UL Recognized (cURus). Rated Type 12 according UL 50e.
- Includes a G3 M1.
- Material: Steel with anti-corrosive painting + plastic PA6 / GF25 for fixing frame.
- Finish: Structured finish, 100% polyester powder.
- Color: RAL 7035 gray.
- Ingress protection rating: IP55 according to IEC 60529.
- Mechanical protection rating: IK10 according to IEC 62262.

Supply:
1 grille delivered with G3 M1 type synthetic filter (215 x 215 mm) and fixings

Characteristics	References
IP55 HD Metal Grille	**NSYCAG223LFHD**

Roof Filter for Fanbox (Extraction Mode)

NSYCAF190

- Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox to help protect it from dust and humidity. Mandatory for fanbox installation in the roof airing module for IP55 configurations.
- Material: 100% polyester fibers.
- Color: White.

Supply:
1

Characteristics	References
IP55 HD Metal Grille	**NSYCAG223LFHD**

Filter


NSYCAF223T

- Replacement G3 M1-type synthetic filter for HD metal grille.
- Dimensions: 215 x 215 mm.
- Material: 100% polyester fibers.
- Color: White.

Supply:
5

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References
G3 M1 synthetic fine filters	268	248	18	223 x 223	**NSYCAF223T**

Anti-Vandalism Kit for HD Metal Grille


• NSYCAAPVHD

Comment:
Not compatible with **NSYSPLA150**

- Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2).
- Quick installation without tools.
- Material: Steel with anticorrosive painting + plastic for fixing screws.

Supply:
4 grip knob
4 clip nuts

Characteristics	References
Anti-vandalism kit for HD metal grille	**NSYCAAPVHD**

Note: Accessories mounted outside of the enclosure.

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ClimaSys CV: Standard Ventilation System

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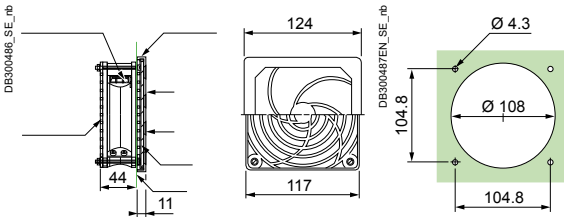
ClimaSys CV: Standard Ventilation System

Accessories

Fans by Components

Fans

- Two models according to the input voltage: 230 and 115 V, 50-60 Hz.
- Ingress protection rating: IP20 according to IEC 60529.
- Options: IP20 outlet grille (ABS, black) and filter (black polyurethane foam).
- UL (cURus). Rated 12 according to UL50E.
- With 1 outlet kit (grille & filter), 1 rear grille, 1 fan motor NSYCVF156Mxxx, 4 fixing screws.




NSYCVF65M115PF

Characteristics	Free air flow (m³/h)	Air flow with fan and outlet grilles and filters (m³/h)	Voltage (V)	References
Fan	170	Fan: 65	115	**NSYCVF65M115PF**
Fan	170	Fan: 65	230	**NSYCVF65M230PF**

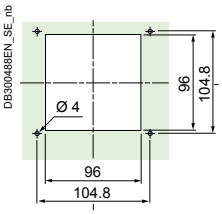
Fan Accessories


NSYCAG108LP

Characteristics	Dimensions External (mm)	References
Outlet grille	124 x 124 x 11	**NSYCAG108LP**
Filter	124 x 124	**NSYCAF108**

Airing Kit

- Ingress protection rating: IP33 according to IEC 60529.
- Mechanical protection rating: IK10 according to IEC 62262.
- Overall flow rate: 54 m³/h.



Supply:
- One 120 x 120 x 38 mm fan, 230 V - 50/60 Hz, free flow rate 170 m³/h,
- Two 120 x 120 mm metal grilles, RAL 7035 gray,
- Two 115 x 98 mm anti-insect filters, stainless-steel 304L cable Ø 0.32 mm braided,
- 1.07 mm meshes,
- 1 power cord,
- The fixings required for installation.


NSYCVF54M230MM2

Characteristics	Flow rate (m³/h)	Voltage (V)	References
Airing kit	54	230	**NSYCVF54M230MM2**

Top Hood with Fan and Cover

- Ingress protection rating: IP54 according to IEC 60529.
- Installation: Installation and removal from the outside.
- Electric power: 85 W.
- Noise level: 64 dB (A).

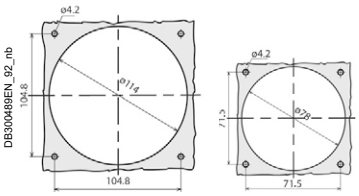
Comment:
Flow rate measured without counter-pressure.

Supply:
Delivered with fixings and connection terminal block.


NSYCVF570M115MF

Characteristics	Weight (kg)	Flow rate (m³/h)	Voltage (V)	References
Top hood with fan and cover	5.8	570	115	**NSYCVF570M115MF**
Top hood with fan and cover	5.8	575	230	**NSYCVF575M230MF**

Fan Motor



- Turbine-type fan motor for airing/extraction.


NSYCVF156M230


NSYCVF156M115

Characteristics	Flow rate (m³/h)	Voltage (V/Hz)	Absorbed power (W)	Noise level (dB (A))	External dimensions (mm)	References
Fan motor	156	230/50-60	17/15	42	120 x 120 x 38	**NSYCVF156M230**
Fan motor	156	115/50-60	17/15	42	120 x 120 x 38	**NSYCVF156M115**
Fan motor	35	230/50-60	16/14	32	80 x 80 x 25	**NSYCVF35M230**
Fan motor	35	115/50-60	16/14	32	80 x 80 x 25	**NSYCVF35M115**

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Fan Accessories

Outlet Grille

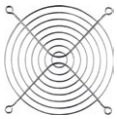


NSYCAG114LPF

- Outlet filter kit for enclosure airing.
- For coupling to fans use **NSYCVF156M●●●** and **NSYCVF35M●●●**.

Characteristics	External dimensions (mm)	References
Outlet grille	120 x 120 x 38	**NSYCAG114LPF**
Outlet grille	80 x 80 x 25	**NSYCAG78LPF**

Rear Protective Grille



NSYCVA114M



NSYCVA78M

- Protective grille for enclosure fan motor.
- For coupling to fans use **NSYCVF156M●●●** and **NSYCVF35M●●●**.

Characteristics	External dimensions (mm)	References
Rear protective grille	120 x 120 x 38	**NSYCVA114M**
Rear protective grille	80 x 80 x 25	**NSYCVA78M**

Fan Connection Cable



NSYCVAC100

- For coupling to the connection terminal of the fan motors.

Characteristics	References
Fan connection cable, length = 1 m	**NSYCVAC100**
Fan connection cable, length = 2 m	**NSYCVAC200**

5

Air Circulation for Internal Forced Convection

Circulation Fan



PB501067_53_nb

User protection according to DIN 31001.
Dimensions:
- Fan: 119 x 119 x 38 mm.
- Collar: Length: 140 mm; Fixing center-to-center distance: 130 mm.
- Motor mounted on ball bearing.

Comment:
(1) Free flow.

Characteristics	Flow rate (m^3/h) (1)	Voltage (V)	Weight. (kg)	P (W)	dB (A)	References
Circulation fan	170	115	0.82	17	41	**NSYCVF170M115**
Circulation fan	170	230	0.82	17	41	**NSYCVF170M230**

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ClimaSys CV: Standard Ventilation System

Dimensions

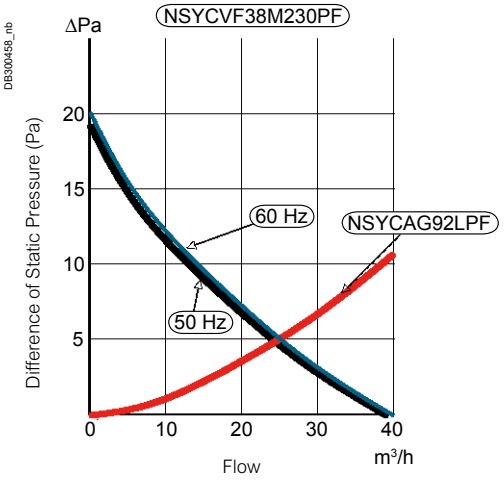
Smart Airing Systems

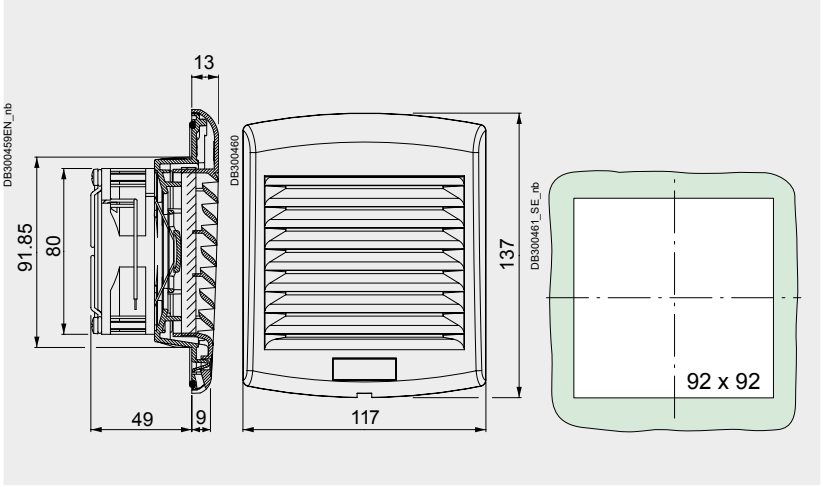
Fan 38 m³/h

Comment:
Adding the Dust Sensor will decrease the flow rate by nearly 10%.

Note: The fan **NSYCVF38M230DG** and **NSYCVF38M115DG** and **NSYCVF38M230PF** MUST NOT be connected to a power conversion module, an inverter or UPS!

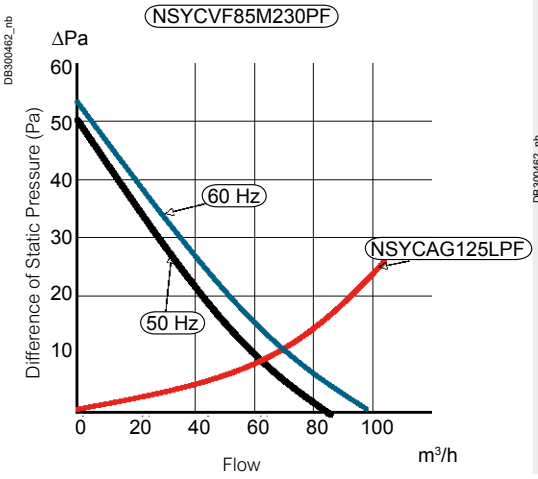
Flow Curves

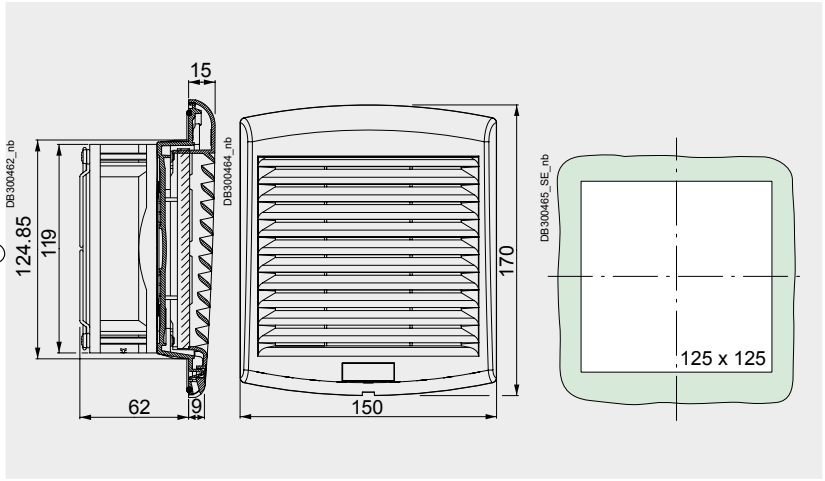




Fan 85 m³/h

Comment:
Adding the Dust Sensor will decrease the flow rate by nearly 5%.

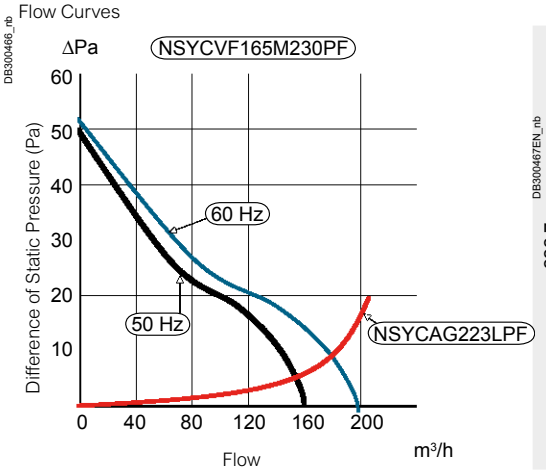


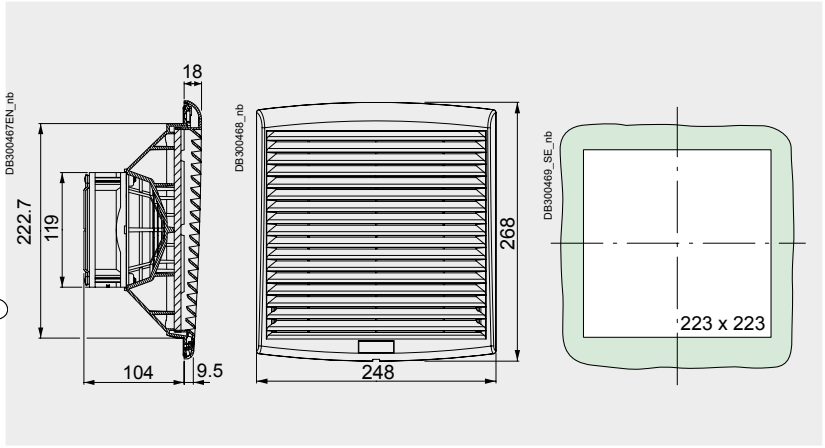


Fan 165 m³/h

Comment:
Adding the Dust Sensor will decrease the flow rate by nearly 5%.

Flow Curves





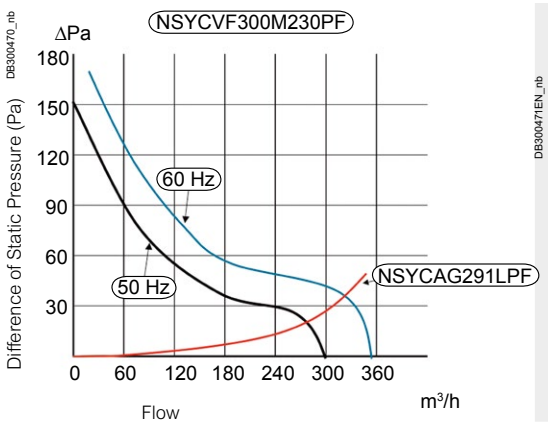
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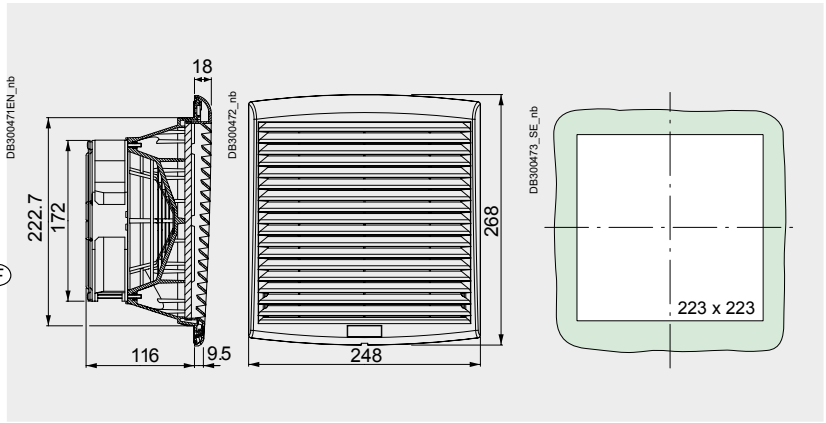
Smart Airing Systems

Fan 300 m³/h

Comment:
Adding the Dust Sensor will decrease the flow rate by nearly 5%.

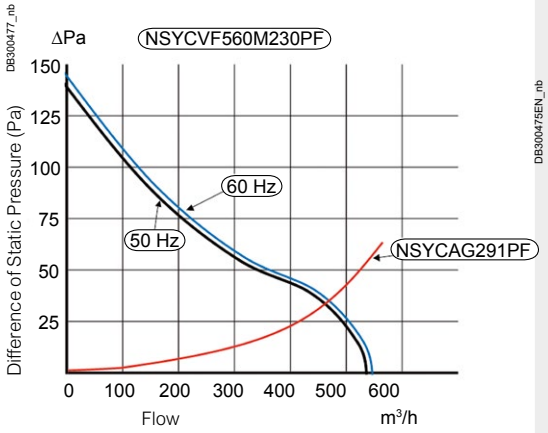
Flow Curves

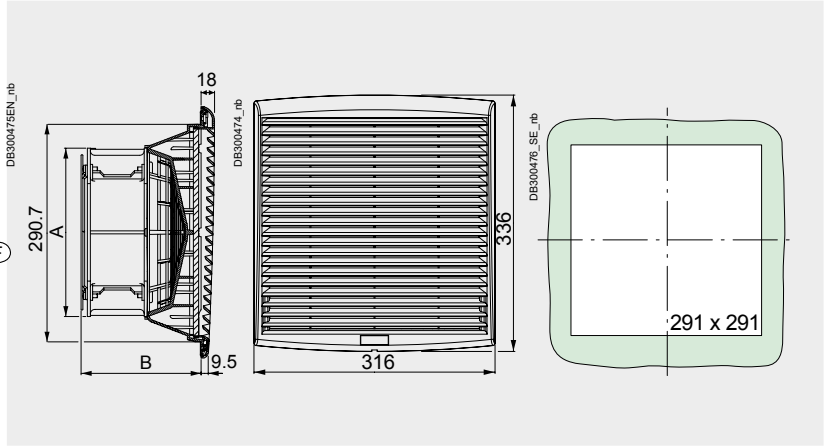




Fan 560-850 m³/h

Comment:
Adding the Dust Sensor will decrease the flow rate by nearly 5%.

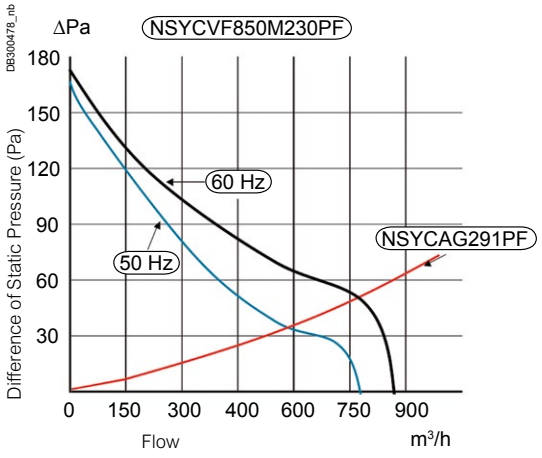




Fan 165 m³/h

Comment:
Adding the Dust Sensor will decrease the flow rate by nearly 5%.

Flow Curves



References	A	B
NSYCVF560M230PF	225	160.5
NSYCVF560M115PF	225	160.5
NSYCVF850M230PF	280	162
NSYCVF850M115PF	280	162

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ClimaSys CE

Introduction

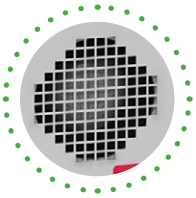


Choose air-to-air exchangers to take advantage of cooler ambient temperatures, such as in food and beverage plants, to evacuate large amounts of heat while retaining the independence of the internal and external air circuits.

Choose air-to-water exchangers for especially difficult environments where there is no external air circuit available but a stable cold-water circuit can be supplied.

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Air-to-Air Exchangers: A New Range Energy Efficient



Higher Efficiency through Improved Design

- With an updated external grill design, and by positioning cooling closer to critical equipment, such as speed drives, ClimaSys now provides better flow, better cooling, and higher energy efficiency



Faster Installation

- A number of design improvements reduce installation time. Mounting requires single cut-outs and a minimum of screws. Wiring is accomplished with smart interconnects



Simplicity Saves You Time

- Our free ProClima thermal calculation software makes specification simple and fast. A new thermal solutions module integrates calculation for cooling and control devices, helping you maximize the energy efficiency of your systems



Protection

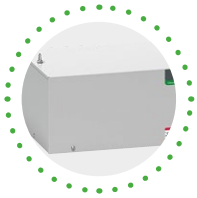
- All side-mounted models are IP55 internally according to EN 60529



Certifications and Declarations

- CE
- EAC

Air-to-Water Exchangers: For Highly Polluted Environments



Many Mounting Options Give You the Right Fit

- Air-to-water exchangers offer roof and side-mounted options



Extended Ratings to Meet Any Challenge

- Provide options for up to 6 kW of cooling power, among the world's highest power ratings for air-to-water exchangers



Certifications and Declarations

- CE
- EAC



Protection

- All side-mounted models are IP55-protected internally and externally according EN 60529. Top-mounted models are IP54

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

ClimaSys CE

Characteristics

Air-to-Air Exchangers, Side-Mounted Models

Characteristics	Side-mounted models			
				
	• The air-to-air exchanger can be used in heavily polluted environments provided that the ambient temperature is at least 10 °C lower than the internal temperature wanted. • Main components: Thermostat adjustment system, exchanger cassette, fans for internal and external circuits of the enclosure.			
Material	Painted zinc-coated steel			
Color	RAL 7035 gray			
Ingress protection rating (according to IEC 60529)	IP55			
Certifications and declarations	CE, EAC			
Installation	Indoor. For outdoor applications or other surface finishes please consult us.			
Cooling characteristics				
Specific power	22 W/K	36 W/K	50 W/K	80 W/K
Air flow of the internal circuit (enclosure)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h
Thermostat type	-	Mechanical	Mechanical	Mechanical
Temperature setting range	-	+5 … +60 °C	+5 … +60 °C	+5 … +60 °C
Temperature range of external circuit (ambient)	-5 … +55 °C	-5 … +55 °C	-5 … +55 °C	-5 … +55 °C
Type of fluid	Air	Air	Air	Air
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Rated current	0.5 A	0.7 A	0.7 A	1.1 A
Power consumption	72 W	160 W	160 W	240 W
Thermal protection recommended (fuse)	T1 A	T1 A	T1 A	T2 A
Physical characteristics				
External dimensions (H x W x D)	413 x 189 x 149 mm	771 x 316 x 103 mm	771 x 316 x 103 mm	1260 x 317 x 148 mm
Protection degree IP internal /external (according to IEC 60529)	IP55 / IP22	IP55 / IP22	IP55 / IP22	IP55 / IP22
Noise level	59 dB (A)	62 dB (A)	62 dB (A)	64 dB (A)
Weight of unit	7 kg	10 kg	10 kg	17 kg
References				
	NSYCEA22E	**NSYCEA36**	**NSYCEA50**	**NSYCEA80**

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Air-to-Water Exchangers, Side-Mounted Models

Characteristics	Side-mounted models				
					
	• Main components: Thermostat adjustment system, Exchange cassette, fans for internal circuits of the enclosure, protection device against possible leaks. • Eyebolts included in all models.				
Material	RAL 7035 gray painted zinc-coated steel or stainless-steel				
Ingress protection rating (according to IEC 60529)	IP55				
Certifications and declarations	• CE declaration • EAC				
Installation	Indoor. For outdoor applications or other surface finishes please consult us.				
Cooling characteristics					
Cooling power W10A35	1000 W	1750 W	2500 W	3500 W	4500 W
Hydraulic circuit maximum pressure	5 bar	5 bar	5 bar	5 bar	5 bar
Internal airflow	330 m³/h	570 m³/h	860 m³/h	1050 m³/h	1450 m³/h
Thermostat type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Temperature setting range	+20 … +46 °C	+20 … +46 °C	+20 … +46 °C	+20 … +46 °C	+20 … +46 °C
Temperature range of external circuit (ambient)	+1 … +70 °C	+1 … +70 °C	+1 … +70 °C	+1 … +70 °C	+1 … +70 °C
Type of fluid	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water
Water flow	150 l/h	150 l/h	500 l/h	500 l/h	500 l/h
Pressure drop	0.1 bar	0.1 bar	0.3 bar	0.2 bar	0.2 bar
Hydraulic connection	3/8" G	1/2" G	1/2" G	1/2" G	1/2" G
Electric characteristics					
Input voltage	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*
Rated Intensity	0.17 A	0.36 A	0.33 A	0.55 A	0.71 A
Power consumption absorved W10A35	29 W	75 W	80 W	130 W	160 W
Thermal protection recommended (fuse)	T2 A	T2 A	T2 A	T2 A	T2 A
Physical characteristics					
External dimensions (H x W x D)	450 x 310 x 115 mm	901 x 398 x 137 mm	901 x 398 x 137 mm	1148 x 398 x 163 mm	1148 x 398 x 163 mm
Protection degree IP internal /external (according to IEC 60529)	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55
Noise level	55 dB (A)	58 dB (A)	58 dB (A)	64 dB (A)	69 dB (A)
Weight of unit	12 kg	18 kg	19 kg	29 kg	30 kg
References					
Steel	**NSYCEW1K**	**NSYCEW1K8**	**NSYCEW2K5**	**NSYCEW3K5**	**NSYCEW4K5**

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Exchangers
ClimaSys CE
Characteristics

Side-Mounting Model

Top Mounting Model

Characteristics	Side-mounted models		Top mounting model
			
	• Main components: Thermostat adjustment system, Exchange cassette, fans for internal circuits of the enclosure, protection device against possible leaks. • Eyebolts included in all models.		
Material	RAL 7035 gray painted zinc-coated steel or stainless-steel		
Ingress protection rating (according to IEC 60529)	IP55		IP54
Certifications and declarations	• CE declaration • EAC		
Installation	Indoor. For outdoor applications or other surface finishes please consult us.		
Cooling characteristics			
Cooling power W10A35	6000 W	6000 W	2500 W
Hydraulic circuit maximum pressure	5 bar	8 bar	5 bar
Internal airflow	1450 m³/h	1450 m³/h	750 m³/h
Thermostat type	Mechanical	Mechanical	Mechanical
Temperature setting range	+20 … +46 °C	+20 … +46 °C	+20 … +46 °C
Temperature range of external circuit (ambient)	+1 … +70 °C	+1 … +70 °C	+1 … +70 °C
Type of fluid	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water
Water flow	800 l/h	800 l/h	500 l/h
Pressure drop	0.5 bar	0.5 bar	0.3 bar
Hydraulic connection	1/2" G	1/2" G	1/2" G
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz*	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Rated Intensity	0.71 A	0.4 A	0.30 A
Power consumption absorved W10A35	160 W	170 W	65 W
Thermal protection recommended (fuse)	T2 A	T1 A	T2 A
Physical characteristics			
External dimensions (H x W x D)	1500 x 450 x 163 mm	1500 x 450 x 163 mm	270 x 400 x 542 mm
Protection degree IP internal /external (according to IEC 60529)	IP55 / IP55	IP55 / IP55	IP54 / IP55
Noise level	69 dB (A)	69 dB (A)	58 dB (A)
Weight of unit	40 kg	42 kg	19 kg
References			
Steel	**NSYCEW6K**	**NSYCEW6K2P4**	**NSYCEW2K5R**

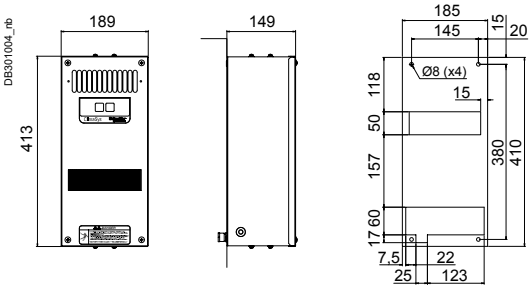
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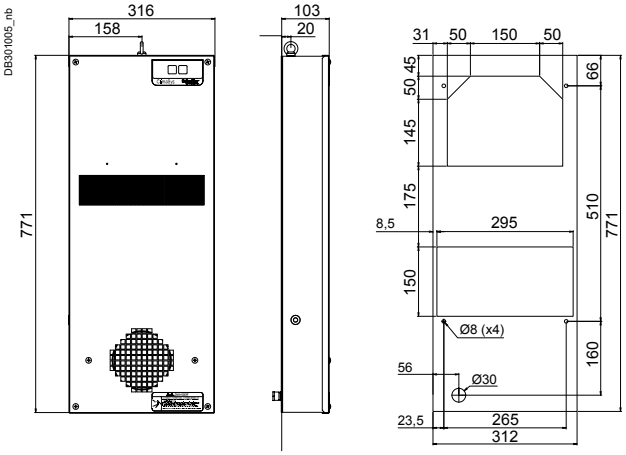
Dimensions

Air-to-Air Exchangers, Side-Mounted Models

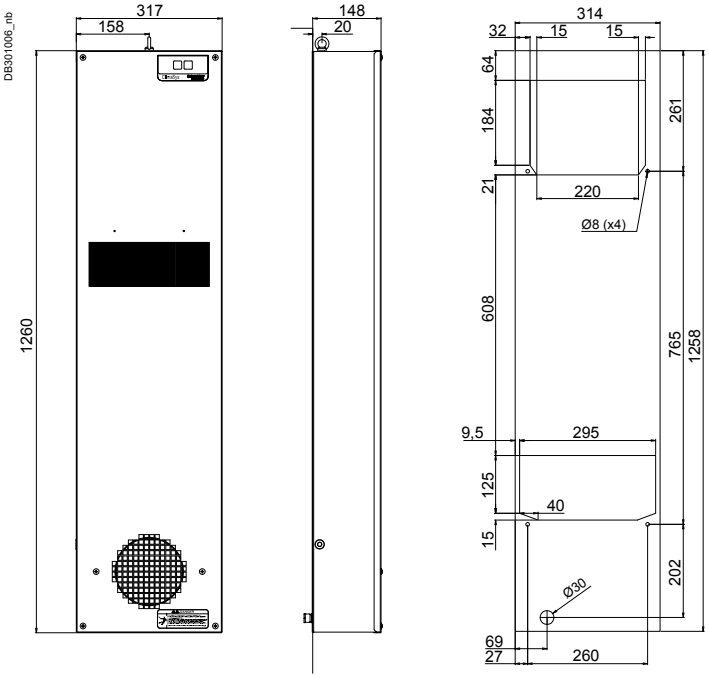
NSYCEA22E



NSYCEA36 / NSYCEA50



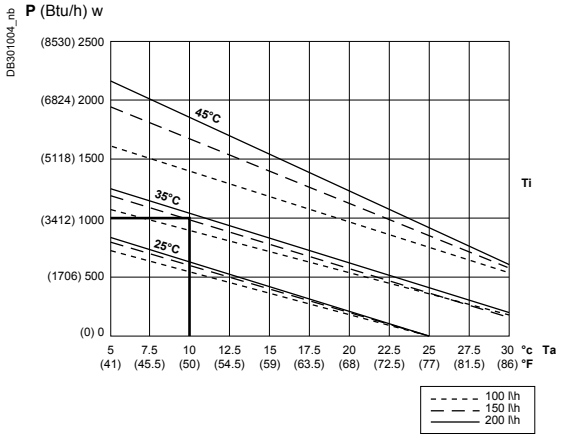
NSYCEA80



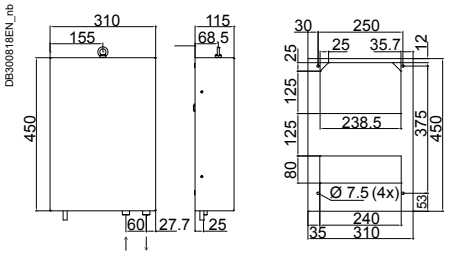
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Air-to-Water Exchangers, Side-Mounted Models

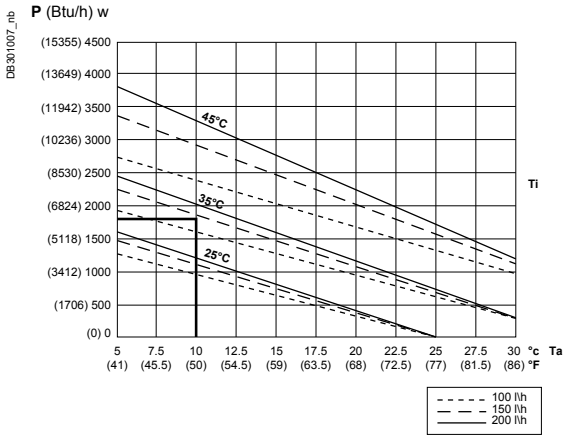
Performance Curves



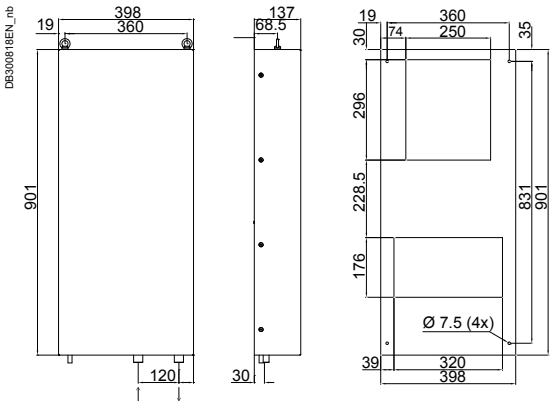
NSYCEW●●1K●●

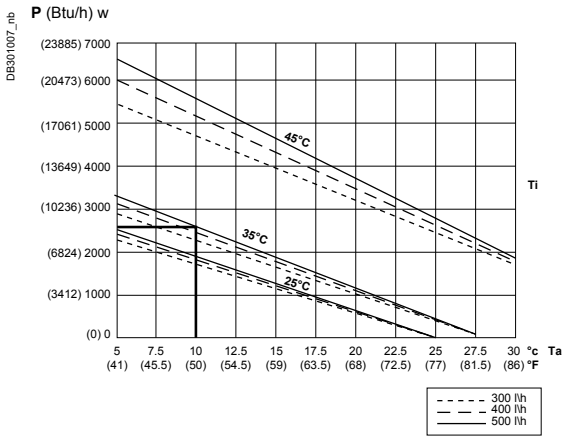


Performance Curves



NSYCEW●●1K8●● – NSYCEW●●2K5●●





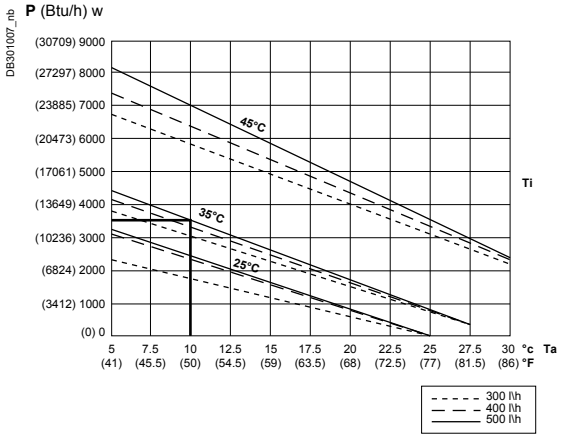
P = Cooling power
Ta= Inlet water temperature
Ti= Target internal temperature of the enclosure

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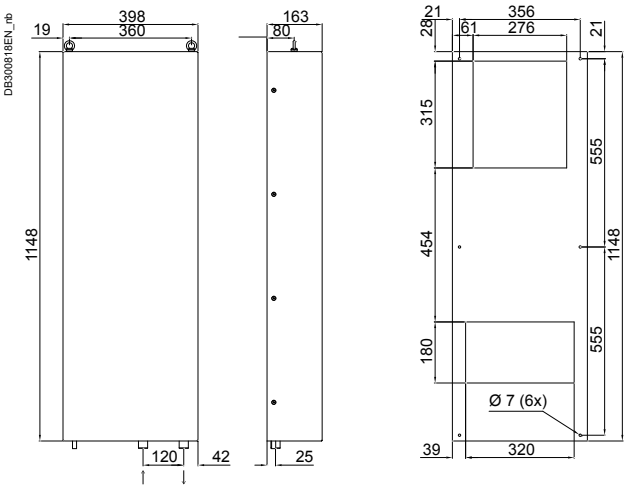
Dimensions

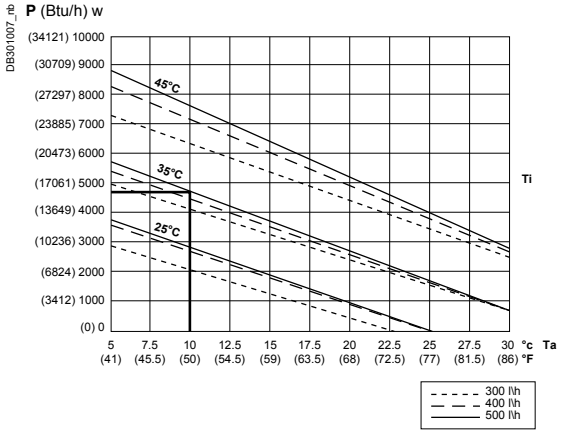
Air-to-Water Exchangers, Side-Mounted Models

Performance Curves

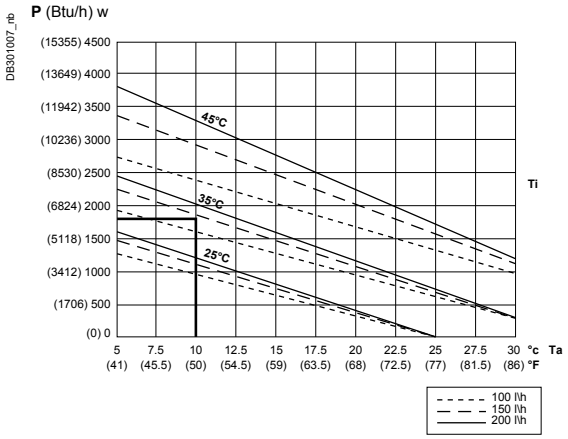


NSYCEW●●3K5●● – NSYCEW●●4K5●●

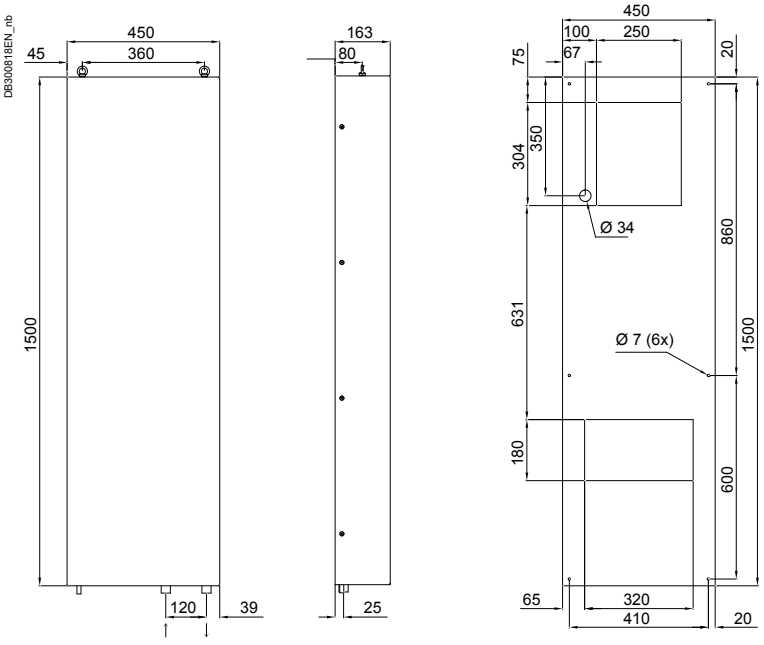




Performance Curves



NSYCEW●●6K●●

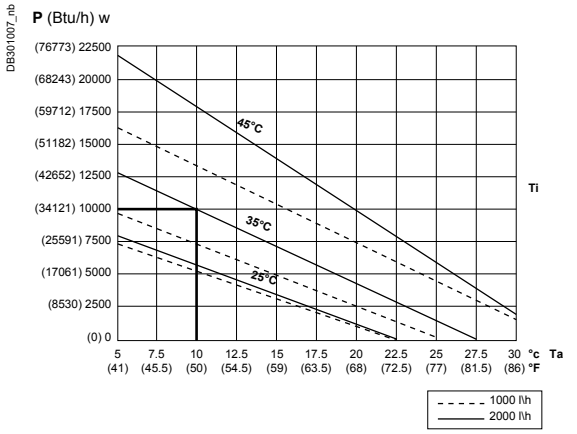


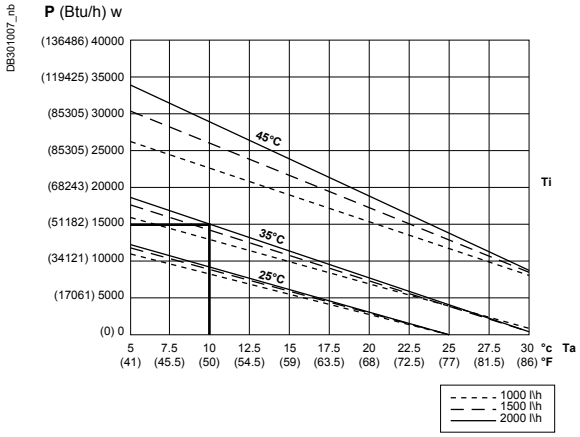
P = Cooling power
Ta= Inlet water temperature
Ti= Target internal temperature of the enclosure

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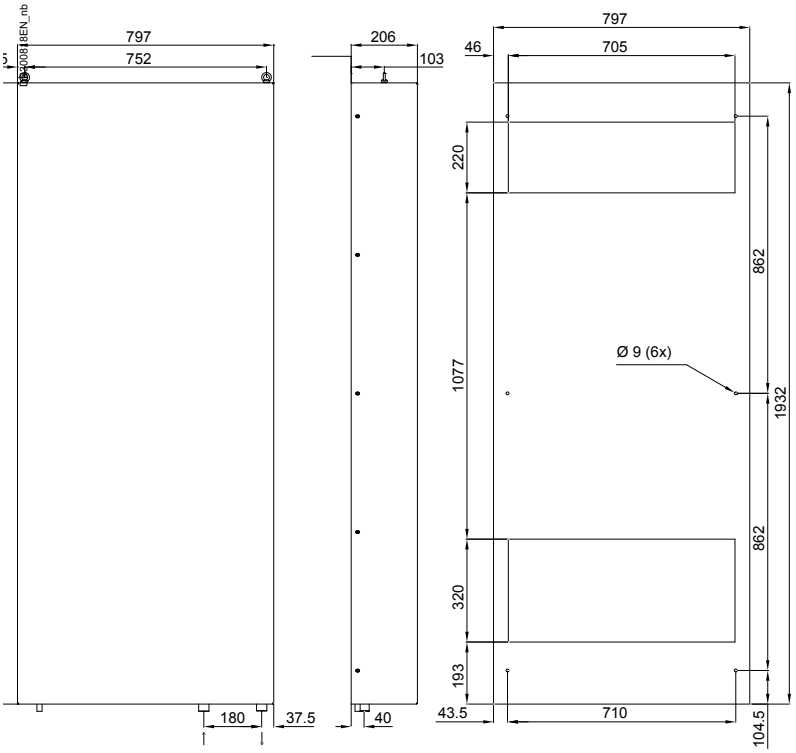
Air-to-Water Exchangers, Side-Mounted Models

Performance Curves

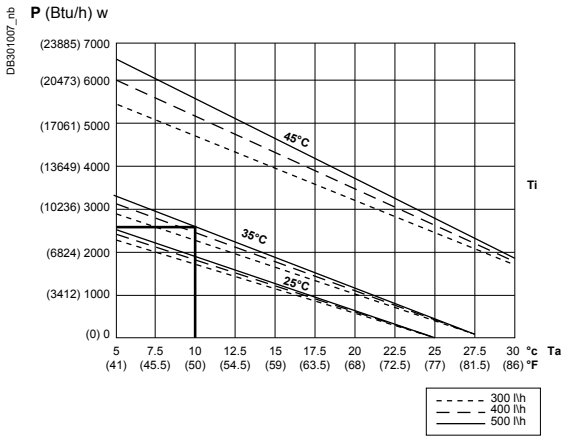




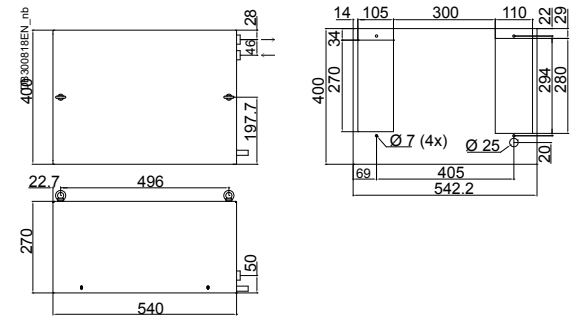
NSYCEW••3K5•• – NSYCEW••4K5••



Performance Curves



NSYCEW••6K••



P = Cooling power
Ta= Inlet water temperature
Ti= Target internal temperature of the enclosure

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ClimaSys CU

Introduction



This range of Cooling units is the ideal solution for electrical cabinets with :
- High power dissipation generated inside (ex.: VSD - Variable Speed Drive),
- High ambient temperature or humidity (ex.: Steel industry, Specific geographical location),
- Environmental dust or pollution (to avoid air flow from ambient to internal atmosphere).

The unit's integrated alarm and communication system keeps you informed about the operating status of your cooling systems and any temperature conditions.

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Reliability for Greater Peace of Mind



Connectivity New

- Remote visibility for alarms, operating status, and setting data
- Native feature with no specific option / configuration to be defined



Hardware Features

- IP55 for all side cooling units
- Ambient temperature up to 55 °C
- Optimized condensation water management with no clogging pipe solution
- Top of the art components from the automotive industry: Rotary compressors, micro-channel condenser heat exchanger



Robust Design in Every Situation

- Indoor and outdoor
- Side and roof
- Steel / Stainless Steel



Certifications and Declarations

- Cooling capacity compliant with EN14511 (L35L35 and L35L50)
- Dual compliance with IEC and UL
- Cybersecurity certified according with IEC62443



Redundant Modes for Critical Applications

- 3 redundant mode options: serial, back-up, sequential
- Native feature

Efficiency for Easier Product Selection and Quicker Mounting



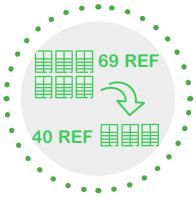
Product Selection

- Easy, optimized product selection with “ProClima Web” combined with SEE Electrical



Mounting and Cabling

- Small sizes Cooling Unit
- Mounting bracket and lifting eyebolts
- 4 independent connectors (Power supply, Signal and Alarm, Modbus, Synchronization)



Offer Portfolio

- All cooling unit functions in 40 references
- Possible customization if required
- 3 mounting options for the Side Indoor Cooling Units: Surface, Half-flush, Flush



Simplicity

- Roof screw fixing from inside (by default) or from outside if required
- Retrofit kits available when required
- Schneider EcoStruxure integration in edge software and cloud advisors

Lower Impact Approach



Qualification

- Compliant with RoHS and REACH regulation
- Product Environmental Profile available

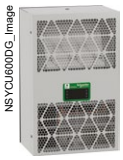
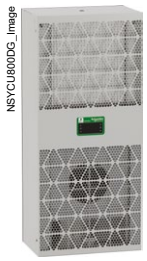
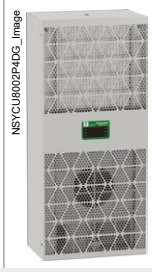
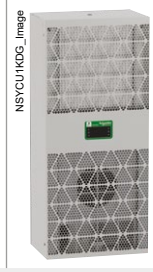
Key Performances

- Suitable combination of Energy Efficiency Ratio and size/weight, compared to the market
- Up to 40% less refrigerant gas per cooling unit for the same cooling capacity (compared to the previous version)
- Up to 80% recycled cardboard, no single-use plastic packaging
- Lighter Instruction Sheet with digital link to user manual

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ClimaSys CU: Side Cooling Units

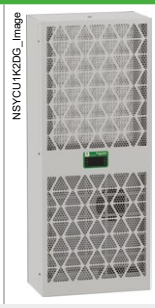
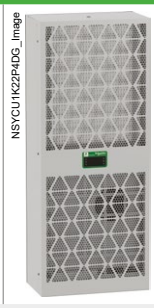
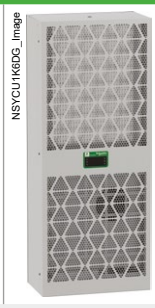
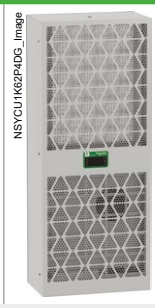
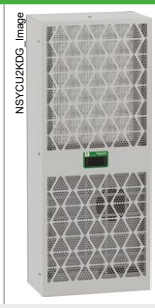
Characteristics

Characteristics	Side-mounted models				
					
	• Alarm, operation and setting info available remotely and locally • Simple, open and easy, native connectivity with Modbus RTU communication • Electronic thermostat with touch screen display • Alarm signal for door contact included in all References • Internal IP55 • Passive water condensate evaporator for all Side Cooling Units strictly above 800 W • Unique combination of optimized Energy Efficiency Ratio and reduced sizes and weight • Easy product selection with ProClima Web associated with SEE Electrical • Filter recommendation: - Office environment (no dust, no grease) : filter free, - Industrial environment (dust, grease, not explosive) : G3 fiber filter is recommended, Indoor CU are delivered without any filter by default.				
Material	Galvanized steel painted in gray RAL 7035 or stainless-steel				
Certifications and declarations	CE (all references, all voltages frequencies) and UL Registered (all references, 60Hz only)				
Installation	Indoor				
Cooling characteristics					
Cooling power L35-L35 according to EN 14511	350 W	650 W	900 W	900 W	1000 W
Cooling power L35-L50 according to EN 14511	186 W	520 W	700 W	700 W	870 W
Air flow of the internal circuit	117 m³/h	117 m³/h	550 m³/h	550 m³/h	550 m³/h
Air flow of the external circuit	166 m³/h	174 m³/h	850 m³/h	850 m³/h	850 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic	Electronic
Temperature range of circuit	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C
Maximum outside temperature	+55 °C	+55 °C	+55 °C	+55 °C	+55 °C
Temperature range of external circuit	+5… +55 °C	+5… +55 °C	+5… +55 °C	+5… +55 °C	+5… +55 °C
Type of cooling gas	R134a	R134a	R134a	R134a	R134a
Cooling gas weight	0.126 kg	0.110 kg	0.120 kg	0.120 kg	0.145 kg
Maximum pressure of cooling circuit	28 bar	28 bar	30 bar	30 bar	30 bar
External filter	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452
Electric characteristics					
Input voltage	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~	EN IEC: 380–415V 50 Hz 2~ UL: 400V / 460V ± 6% 60 Hz 2~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~
Starting / rated current	3.8 A / 1.4 A	6 A / 2.3 A	6 A / 3 A	4 A / 3 A	6 A / 3 A
Power consumption L35-L35 according to EN 14511	240 W	350 W	480 W	500 W	480 W
Power consumption L35-L50 according to EN 14511	270 W	410 W	530 W	530 W	530 W
Energy efficiency ratio L35-L35 according to EN 14511	1.4	1.8	1.8	1.8	2.1
Thermal protection recommended (circuit breaker)	M9F22116	M9F22116	M9F22116	M9F22216	M9F22116
Thermal protection recommended (fuse)	T15 A	T15 A	T15 A	2 x 15 A	T15 A
Physical characteristics					
External dimensions (H x W x D)	460 x 290 x 190 mm	460 x 290 x 190 mm	780 x 345 x 215 mm	780 x 345 x 215 mm	780 x 345 x 215 mm
Protection degree IP internal/external according to IEC	IP55 / IP24	IP55 / IP24	IP55 / IP24	IP55 / IP24	IP55 / IP24
Noise level	55 dB (A)	55 dB (A)	70 dB (A)	70 dB (A)	70 dB (A)
Weight of Unit	11.7 kg	13.2 kg	22.8 kg	27.4 kg	22.4 kg
References					
Steel	**NSYCU350DG**	**NSYCU600DG**	**NSYCU800DG**	**NSYCU8002P4DG**	**NSYCU1KDG**
Stainless-steel	**NSYCUX350DG**	**NSYCUX600DG**	-	-	**NSYCUX1KDG**

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ClimaSys CU: Side Cooling Units

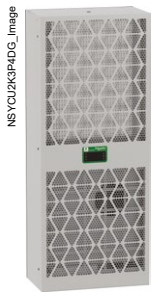
Characteristics

						
	1000 W	1200 W	1200 W	1650 W	1650 W	2000 W
	870 W	1050 W	1050 W	1400 W	1400 W	1900 W
	550 m³/h	850 m³/h	850 m³/h	850 m³/h	850 m³/h	850 m³/h
	850 m³/h	1200 m³/h	1200 m³/h	1200 m³/h	1200 m³/h	1200 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C
	+55 °C	+55 °C	+55 °C	+55 °C	+55 °C	+55 °C
	+5… +55 °C	+5… +55 °C	+5… +55 °C	+5… +55 °C	+5… +55 °C	+5… +55 °C
	R134a	R134a	R134a	R134a	R134a	R134a
	0.145 kg	0.255 kg	0.255 kg	0.323 kg	0.323 kg	0.410 kg
	30 bar	30 bar	30 bar	30 bar	30 bar	30 bar
	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452
	EN IEC: 380–415V 50 Hz 2~ UL: 400V / 460V ± 6% 60 Hz 2~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~	EN IEC: 380–415V 50 Hz 2~ UL: 400V / 460V ± 6% 60 Hz 2~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~	EN IEC: 380–415V 50 Hz 2~ UL: 400V / 460V ± 6% 60 Hz 2~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~
	4 A / 2 A	16 A / 6 A	8 A / 2.8 A	16 A / 6 A	8 A / 2.8 A	22 A / 7.5 A
	480 W	700 W	700 W	770 W	770 W	900 W
	530 W	790 W	790 W	880 W	880 W	1100 W
	2.1	1.8	1.8	2.2	2.2	2.2
	M9F22216	M9F22116	M9F22216	M9F22116	M9F22216	M9F22116
	2 x 15 A	T15 A	2 x 15 A	T15 A	2 x 15 A	T15 A
	780 x 345 x 215 mm	1000 x 405 x 225 mm	1000 x 405 x 225 mm	1000 x 405 x 225 mm	1000 x 405 x 225 mm	1000 x 405 x 225 mm
	IP55 / IP24	IP55 / IP24	IP55 / IP24	IP55 / IP24	IP55 / IP24	IP55 / IP24
	70 dB (A)	72 dB (A)	72 dB (A)	72 dB (A)	72 dB (A)	72 dB (A)
	27.4 kg	39 kg	44.5 kg	39 kg	44.5 kg	40.4 kg
	NSYCU1K2P4DG	**NSYCU1K2DG**	**NSYCU1K22P4DG**	**NSYCU1K6DG**	**NSYCU1K62P4DG**	**NSYCU2KDG**
	NSYCUX1K2P4DG	-	-	**NSYCUX1K6DG**	-	-

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ClimaSys CU: Side Cooling Units

Characteristics

Characteristics	Side-mounted models	
	 NSYCU2K3P4DG_Image	 NSYCU3K2DG_Image
	• Alarm, operation and setting info available remotely and locally • Simple, open and easy, native connectivity with Modbus RTU communication • Electronic thermostat with touch screen display • Alarm signal for door contact included in all References • Internal IP55 • Passive water condensate evaporator for all Side Cooling Units strictly above 800 W • Unique combination of optimized Energy Efficiency Ratio and reduced sizes and weight • Easy product selection with ProClima Web associated with SEE Electrical • Filter recommendation: - Office environment (no dust, no grease) : filter free, - Industrial environment (dust, grease, not explosive) : G3 fiber filter is recommended, Indoor CU are delivered without any filter by default.	
Material	Galvanized steel painted in gray RAL 7035 or stainless-steel	
Certifications and declarations	CE (all references, all voltages frequencies) and UL Registered (all references, 60Hz only)	
Installation	Indoor	
Cooling characteristics		
Cooling power L35-L35 according to EN 14511	2000 W	3200 W
Cooling power L35-L50 according to EN 14511	1900 W	2600 W
Air flow of the internal circuit	850 m³/h	1200 m³/h
Air flow of the external circuit	1200 m³/h	1400 m³/h
Thermostat type	Electronic	Electronic
Temperature range of circuit	+20… +50 °C	+20… +50 °C
Maximum outside temperature	55 °C	55 °C
Temperature range of external circuit	+5… +55 °C	+5… +55 °C
Type of cooling gas	R134a	R134a
Cooling gas weight	0.390 kg	0.482 kg
Maximum pressure of cooling circuit	30 bar	32 bar
External filter	Optional, **see** page 452	Optional, **see** page 452
Electric characteristics		
Input voltage	EN IEC: 380–415V 50 Hz 3~ UL: 400V / 460V ± 6% 60 Hz 3~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~
Starting / rated current	13 A / 2.5 A	30 A / 9 A
Power consumption L35-L35 according to EN 14511	900 W	1200 W
Power consumption L35-L50 according to EN 14511	1000 W	1400 W
Energy efficiency ratio L35-L35 according to EN 14511	2.2	2.6
Thermal protection recommended (circuit breaker)	M9F22316	M9F22116
Thermal protection recommended (fuse)	3 x 15 A	T15 A
Physical characteristics		
External dimensions (H x W x D)	1000 x 405 x 225 mm	1300 x 490 x 250 mm
Protection degree IP internal/external according to IEC	IP55 / IP24	IP55 / IP24
Noise level	72 dB (A)	72 dB (A)
Weight of Unit	40.4 kg	58.9 kg
References		
Steel	**NSYCU2K3P4DG**	**NSYCU3K2DG**
Stainless-steel	**NSYCUX2K3P4DG**	-

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ClimaSys CU: Side Cooling Units

Characteristics





	3200 W	4000 W
	2600 W	3200 W
	1200 m³/h	1200 m³/h
	1400 m³/h	1400 m³/h
	Electronic	Electronic
	+20… +50 °C	+20… +50 °C
	55 °C	55 °C
	+5… +55 °C	+5… +55 °C
	R134a	R134a
	0.482 kg	0.673 kg
	32 bar	32 bar
	Optional, **see** page 452	Optional, **see** page 452
	EN IEC: 380–415V 50 Hz 3~ UL: 400V / 460V ± 6% 60 Hz 3~	EN IEC: 380–415V 50 Hz 3~ UL: 400V / 460V ± 6% 60 Hz 3~
	20 A / 3.5 A	15 A / 5 A
	1200 W	1700 W
	1400 W	2800 W
	2.6	2.3
	M9F22316	M9F22316
	3 x 15 A	3 x 15 A
	1300 x 490 x 250 mm	1300 x 490 x 250 mm
	IP55 / IP24	IP55 / IP24
	72 dB (A)	72 dB (A)
	58.9 kg	62.2 kg
	NSYCU3K23P4DG	**NSYCU4K3P4DG**
	-	-

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ClimaSys CU: Roof Cooling Units

Characteristics

Characteristics	Roof-mounted models				
					
	• Alarm, operation and setting info available remotely and locally • Simple, open and easy, native connectivity with Modbus RTU communication • Electronic thermostat with touch screen display • Alarm signal for door contact included in all References • Passive water condensate evaporator for all Side Cooling Units strictly above 800 W • Unique combination of optimized Energy Efficiency Ratio and reduced sizes and weight • Easy product selection with ProClima Web associated with SEE Electrical • Filter recommendation: - Office environment (no dust, no grease) : filter free, - Industrial environment (dust, grease, not explosive) : G3 fiber filter is recommended, Indoor CU are delivered without any filter by default.				
Material	Galvanized steel painted in gray RAL 7035 or stainless-steel				
Certifications and declarations	CE (all references, all voltages frequencies) and UL Registered (all references, 60Hz only)				
Installation	Indoor				
Cooling characteristics					
Cooling power L35-L35 according to EN 14511	650 W	850 W	850 W	1250 W	1250 W
Cooling power L35-L50 according to EN 14511	580 W	600 W	600 W	800 W	800 W
Air flow of the internal circuit	180 m^3/h	850 m^3/h	850 m^3/h	850 m^3/h	850 m^3/h
Air flow of the external circuit	408 m^3/h	850 m^3/h	850 m^3/h	850 m^3/h	850 m^3/h
Thermostat type	Electronic	Electronic	Electronic	Electronic	Electronic
Temperature range of circuit	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C
Maximum outside temperature	55 °C	55 °C	55 °C	55 °C	55 °C
Temperature range of external circuit	5… +55 °C	5… +55 °C	5… +55 °C	5… +55 °C	+5… +55 °C
Type of cooling gas	R134a	R134a	R134a	R134a	R134a
Cooling gas weight	0.120 kg	0.132 kg	0.132 kg	0.156 kg	0.156 kg
Maximum pressure of cooling circuit	28 bar	28 bar	28 bar	32 bar	32 bar
External filter	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452
Electric characteristics					
Input voltage	EN IEC: 220–240V 50 Hz 1~ UL: 230V ± 6% 60 Hz 1~	EN IEC: 220–240V 50 Hz 1~ UL: 230V ± 6% 60 Hz 1~	EN IEC: 380–415V 50 Hz 2~ UL: 460V ± 6% 60 Hz 2~	EN IEC: 220–240V 50 Hz 1~ UL: 230V ± 6% 60 Hz 1~	EN IEC: 380–415V 50 Hz 2~ UL: 460V ± 6% 60 Hz 2~
Starting / rated current	6 A / 2.2 A	6 A / 3 A	4 A / 1.9 A	16 A / 4.3 A	8 A / 2.2 A
Power consumption L35-L35 according to EN 14511	340 W	490 W	530 W	650 W	700 W
Power consumption L35-L50 according to EN 14511	390 W	550 W	580 W	700 W	750 W
Energy efficiency ratio L35-L35 according to EN 14511	1.9	1.7	1.6	1.9	1.8
Thermal protection recommended (circuit breaker)	M9F22116	M9F22116	M9F22216	M9F22116	M9F22216
Thermal protection recommended (fuse)	T15 A	T15 A	2 x 15 A	T15 A	2 x 15 A
Physical characteristics					
External dimensions (H x W x D)	368 x 400 x 325 mm	412 x 595 x 395 mm	412 x 595 x 395 mm	412 x 595 x 395 mm	412 x 595 x 395 mm
Protection degree IP internal/external according to IEC	IP54 / IP24	IP54 / IP24	IP54 / IP24	IP54 / IP24	IP54 / IP24
Noise level	55 dB (A)	70 dB (A)	70 dB (A)	70 dB (A)	70 dB (A)
Weight of Unit	16.8 kg	27.5 kg	32 kg	34.5 kg	39 kg
References					
Steel	**NSYCU600RDG**	**NSYCU800RDG**	**NSYCU8002P4RDG**	**NSYCU1K2RDG**	**NSYCU1K22P4RDG**

Evaporation device for condensation water (external installation)

- Device allowing the evaporation of water condensate from the internal heat exchanger (evaporator).
- Accessory compatible for all Indoor Cooling Unit (Side and Roof).

Heat sink

NSYCUACC009DG

Characteristics	Value
Mechanical data	
Height x Width x Depth	103 x 164 x 148 mm (4.1 x 6.5 x 5.8 in)
Weight	1.2 kg (2.2 lb)
Implementation	External mounting of the Cooling Unit
Electrical data	
Voltage / Frequency	1 x 230 V / 50-60 Hz
Starting current	2 A
Power consumption	
During operation (max. heater fully immersed)	230 W
Stabdby (dry)	25 W
Performance	
Evaporation rate	0.25l/h)

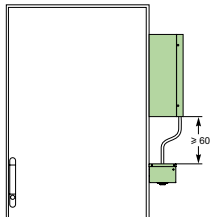
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ClimaSys CU: Roof Cooling Units

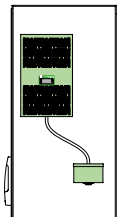
Characteristics

						
	1550 W	1550 W	2100 W	2000 W	3200 W	4000 W
	1200 W	1200 W	1600 W	1500 W	2640 W	3300 W
	850 m³/h	850 m³/h	850 m³/h	850 m³/h	1200 m³/h	1200 m³/h
	850 m³/h	850 m³/h	1200 m³/h	1200 m³/h	1400 m³/h	1400 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C
	55 °C	55 °C	55 °C	55 °C	55 °C	55 °C
	+5… +55 °C	+5… +55 °C	+5… +55 °C	+5… +55 °C	+5… +55 °C	+5… +55 °C
	R134a	R134a	R134a	R134a	R134a	R134a
	0.267 kg	0.267 kg	0.320 kg	0.420 kg	0.482 kg	0.545 kg
	32 bar	32 bar	32 bar	32 bar	32 bar	32 bar
	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452	Optional, **see** page 452
	EN IEC: 220–240V 50 Hz 1~ UL: 230V ± 6% 60 Hz 1~	EN IEC: 380–415V 50 Hz 2~ UL: 460V ± 6% 60 Hz 2~	EN IEC: 220–240V 50 Hz 1~ UL: 230V ± 6% 60 Hz 1~	EN IEC: 380–415V 50 Hz 3~ UL: 460V ± 6% 60 Hz 3~	EN IEC: 380–415V 50 Hz 3~ UL: 460V ± 6% 60 Hz 3~	EN IEC: 380–415V 50 Hz 3~ UL: 460V ± 6% 60 Hz 3~
	16 A / 6.1 A	8 A / 3 A	22 A / 6.4 A	13 A / 2.4 A	20 A / 3.2 A	28 A / 4.1 A
	700 W	760 W	870 W	840 W	1170 W	1480 W
	800 W	860 W	1030 W	1010 W	1400 W	1770 W
	2.1	2.0	2.4	2.4	2.7	2.7
	M9F22116	M9F22216	M9F22116	M9F22316	M9F22316	M9F22316
	T15 A	2 x 15 A	T15 A	3 x 15 A	3 x 15 A	3 x 15 A
	412 x 595 x 395 mm	412 x 595 x 395 mm	435 x 595 x 475 mm	435 x 595 x 475 mm	456 x 795 x 575 mm	456 x 795 x 575 mm
	IP54 / IP24	IP54 / IP24	IP54 / IP24	IP54 / IP24	IP54 / IP24	IP54 / IP24
	70 dB (A)	70 dB (A)	72 dB (A)	72 dB (A)	72 dB (A)	72 dB (A)
	34.5 kg	39 kg	38.1 kg	40.1 kg	54.2 kg	57.2 kg
	NSYCU1K5RDG	**NSYCU1K52P4RDG**	**NSYCU2KRDG**	**NSYCU2K3P4RDG**	**NSYCU3K3P4RDG**	**NSYCU4K3P4RDG**

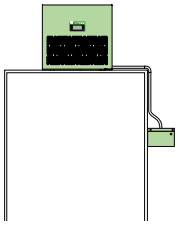
Side-Mounted 01

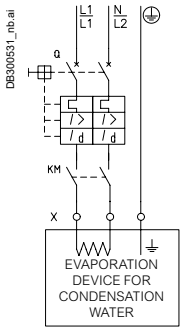


Side-Mounted 02



Roof-Mounted

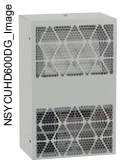
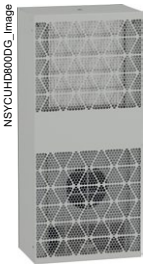
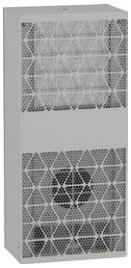




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ClimaSys CU: Outdoor Cooling Units

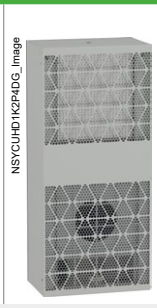
Characteristics

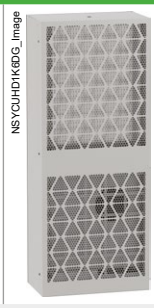
Characteristics	Side-mounted models			
	 NSYCUHD350DG_Image	 NSYCUHD600DG_Image	 NSYCUHD800DG_Image	 NSYCUHD1KDG_Image
	• Alarm, operation and setting info available remotely and locally • Simple, open and easy, native connectivity with Modbus RTU communication • Electronic thermostat with touch screen display mounter in the enclosure side • Alarm signal for door contact included in all References • Internal IP55 • Unique combination of optimized Energy Efficiency Ratio and reduced sizes and weight • Easy product selection with ProClima Web associated with SEE Electrical • Anti-corrosion protection (class C3H) • External screws are safety Torx head • Aluminum filter re placement access is closed with a lid • Minimum ambient temperature range reaches -20 °C adding a heater to the compressor body • Filter recommendation: - Office environment (no dust, no grease): filter free, - Industrial environment (dust, grease, not explosive): G3 fiber filter is recommended, - Outdoor (not explosive) : aluminum filter is recommended, Indoor CU are delivered without any filter by default Outdoor CU are delivered with Aluminum filter by default.			
Material	Galvanized steel painted in gray RAL 7035			
Certifications and declarations	CE (all references, all voltages frequencies) and UL Registered (all references, 60Hz only)			
Installation	Indoor or outdoor			
Cooling characteristics				
Cooling power L35-L35 according to EN 14511	350 W	650 W	900 W	1000 W
Cooling power L35-L50 according to EN 14511	186 W	520 W	700 W	870 W
Air flow of the internal circuit	117 m^3/h	117 m^3/h	550 m^3/h	550 m^3/h
Air flow of the external circuit	166 m^3/h	174 m^3/h	850 m^3/h	850 m^3/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range of circuit	+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C
Maximum outside temperature	55 °C	55 °C	55 °C	55 °C
Temperature range of external circuit	-20 °C… +55 °C	-20 °C… +55 °C	-20 °C… +55 °C	-20 °C… +55 °C
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.124 kg	0.110 kg	0.120 kg	0.174 kg
Maximum pressure of cooling circuit	28 bar	30 bar	30 bar	30 bar
External filter	Aluminum filter included	Aluminum filter included	Aluminum filter included	Aluminum filter included
Electric characteristics				
Input voltage	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~
Starting / rated current	3.8 A / 1.4 A	6 A / 2.3 A	6 A / 3 A	6 A / 3 A
Power consumption L35-L35 according to EN 14511	240 W	350 W	480 W	480 W
Power consumption L35-L50 according to EN 14511	270 W	410 W	530 W	530 W
Energy efficiency ratio L35-L35 according to EN 14511	1.4	1.8	1.8	2.1
Thermal protection recommended (circuit breaker)	M9F22116	M9F22116	M9F22116	M9F22116
Thermal protection recommended (fuse)	T15 A	T15 A	T15 A	T15 A
Physical characteristics				
External dimensions (H x W x D)	460 x 290 x 190 mm	460 x 290 x 190 mm	780 x 345 x 215 mm	780 x 345 x 215 mm
Protection degree IP internal/external according to IEC	IP55 / IP24	IP55 / IP24	IP55 / IP24	IP55 / IP24
Noise level	55 dB (A)	55 dB (A)	70 dB (A)	70 dB (A)
Weight of Unit	11.7 kg	13.2 kg	22.8 kg	22.8 kg
References				
Steel	**NSYCUHD350DG**	**NSYCUHD600DG**	**NSYCUHD800DG**	**NSYCUHD1KDG**

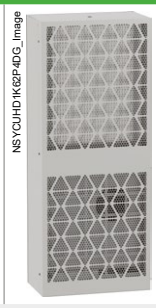
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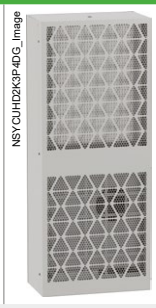
ClimaSys CU: Outdoor Cooling Units

Characteristics









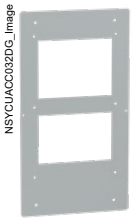
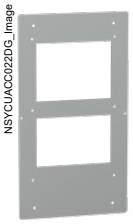
1000 W	1650 W	1650 W	2000 W
870 W	1400 W	1400 W	1900 W
550 m^3/h	850 m^3/h	850 m^3/h	850 m^3/h
850 m^3/h	1200 m^3/h	1200 m^3/h	1200 m^3/h
Electronic	Electronic	Electronic	Electronic
+20… +50 °C	+20… +50 °C	+20… +50 °C	+20… +50 °C
55 °C	55 °C	55 °C	55 °C
-20 °C… +55 °C	-20 °C… +55 °C	-20 °C… +55 °C	-20 °C… +55 °C
R134a	R134a	R134a	R134a
0.174 kg	0.323 kg	0.323 kg	0.390 kg
30 bar	30 bar	30 bar	30 bar
Aluminum filter included	Aluminum filter included	Aluminum filter included	Aluminum filter included
EN IEC: 380–415V 50 Hz 2~ UL: 400V / 460V ± 6% 60 Hz 2~	EN IEC: 220–240 V 50 Hz 1~ UL: 230 V ± 6% 60 Hz 1~	EN IEC: 380–415V 50 Hz 2~ UL: 400V / 460V ± 6% 60 Hz 2~	EN IEC: 380–415V 50 Hz 3~ UL: 400V / 460V ± 6% 60 Hz 3~
4 A / 2 A	16 A / 6 A	8 A / 2.8 A	13 A / 2.5 A
480 W	770 W	770 W	900 W
530 W	880 W	880 W	1000 W
2.1	2.2	2.2	2.2
M9F22216	M9F22116	M9F22216	M9F22316
T15 A	T15 A	T15 A	T15 A
780 x 345 x 215 mm	1000 x 405 x 225 mm	1000 x 405 x 225 mm	1000 x 405 x 225 mm
IP55 / IP24	IP55 / IP24	IP55 / IP24	IP55 / IP24
70 dB (A)	72 dB (A)	72 dB (A)	72 dB (A)
27.4 kg	39 kg	44.5 kg	40.4 kg
NSYCUHD1K2P4DG	**NSYCUHD1K6DG**	**NSYCUHD1K62P4DG**	**NSYCUHD2K3P4DG**

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Accessories

Characteristics	Material		Filter	
				
	Steel	Stainless-steel	Fiber filter	Aluminum filter
			Filter not recommended for outdoor models	Filter recommended for outdoor models
Color			-	-
Supply			5 units	1 unit
Cooling units	**References**			
Side Indoor CU	**NSYCU350DG**	**NSYCUX350DG**	**NSYCUACC001DG**	**NSYCUACC005DG**
	NSYCU600DG	**NSYCUX600DG**	**NSYCUACC001DG**	**NSYCUACC005DG**
	NSYCU800DG	-	**NSYCUACC002DG**	**NSYCUACC006DG**
	NSYCU8002P4DG	-	**NSYCUACC002DG**	**NSYCUACC006DG**
	NSYCU1KDG	**NSYCUX1KDG**	**NSYCUACC002DG**	**NSYCUACC006DG**
	NSYCU1K2P4DG	**NSYCUX1K2P4DG**	**NSYCUACC002DG**	**NSYCUACC006DG**
	NSYCU1K2DG	-	**NSYCUACC003DG**	**NSYCUACC007DG**
	NSYCU1K22P4DG	-	**NSYCUACC003DG**	**NSYCUACC007DG**
	NSYCU1K6DG	**NSYCUX1K6DG**	**NSYCUACC003DG**	**NSYCUACC007DG**
	NSYCU1K62P4DG	-	**NSYCUACC003DG**	**NSYCUACC007DG**
	NSYCU2KDG	-	**NSYCUACC003DG**	**NSYCUACC007DG**
	NSYCU2K3P4DG	**NSYCUX2K3P4DG**	**NSYCUACC003DG**	**NSYCUACC007DG**
	NSYCU3K2DG	-	**NSYCUACC004DG**	**NSYCUACC008DG**
	NSYCU3K23P4DG	-	**NSYCUACC004DG**	**NSYCUACC008DG**
	NSYCU4K3P4DG	-	**NSYCUACC004DG**	**NSYCUACC008DG**
Roof indoor CU	**NSYCU600RDG**	-	**NSYCUACC010DG**	**NSYCUACC014DG**
	NSYCU800RDG	-	**NSYCUACC011DG**	**NSYCUACC015DG**
	NSYCU8002P4RDG	-	**NSYCUACC011DG**	**NSYCUACC015DG**
	NSYCU1K2RDG	-	**NSYCUACC011DG**	**NSYCUACC015DG**
	NSYCU1K22P4RDG	-	**NSYCUACC011DG**	**NSYCUACC015DG**
	NSYCU1K5RDG	-	**NSYCUACC011DG**	**NSYCUACC015DG**
	NSYCU1K52P4RDG	-	**NSYCUACC011DG**	**NSYCUACC015DG**
	NSYCU2KRDG	-	**NSYCUACC011DG**	**NSYCUACC015DG**
	NSYCU2K3P4RDG	-	**NSYCUACC011DG**	**NSYCUACC015DG**
	NSYCU3K3P4RDG	-	**NSYCUACC013DG**	**NSYCUACC017DG**
	NSYCU4K3P4RDG	-	**NSYCUACC013DG**	**NSYCUACC017DG**
Side outdoor CU	**NSYCUHD350DG**	-	-	**NSYCUACC005DG**
	NSYCUH600DG	-	-	**NSYCUACC005DG**
	NSYCUHD800DG	-	-	**NSYCUACC006DG**
	NSYCUHD1KDG	-	-	**NSYCUACC006DG**
	NSYCUHD1K2P4DG	-	-	**NSYCUACC006DG**
	NSYCUHD1K6DG	-	-	**NSYCUACC007DG**
	NSYCUHD1K62P4DG	-	-	**NSYCUACC007DG**
	NSYCUHD2K3P4DG	-	-	**NSYCUACC007DG**

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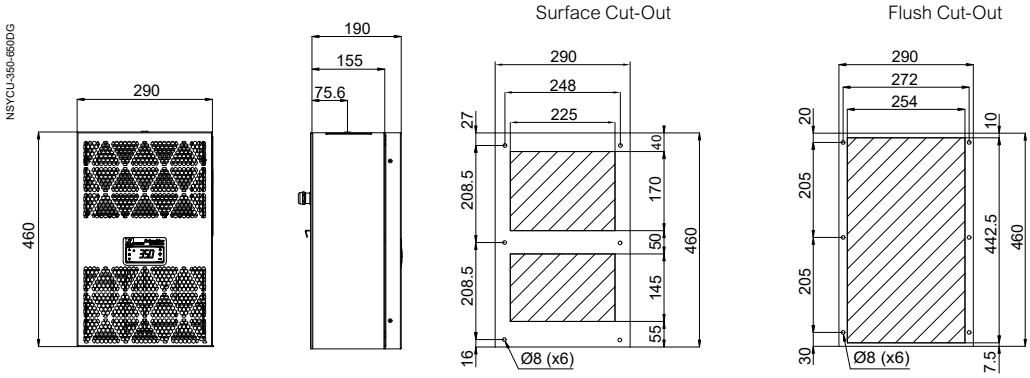
	External condensate evaporator	Half-flush kit		Retrofit kit	
					
		Steel	Stainless-steel	Steel	Stainless-steel
	For water condensate evaporation	-	-	Kit to mount a new Cooling Unit in place of an existing Schneider Electric Cooling Unit from the previous range	Kit to mount a new Cooling Unit in place of an existing Schneider Electric Cooling Unit from the previous range
	-	RAL 7035 gray	-	RAL 7035 gray	-
	1 unit	1 unit	1 unit	1 unit	1 unit
	NSYCUACC009DG	**NSYCUACC034DG**	**NSYCUACC038DG**	-	-
	NSYCUACC009DG	**NSYCUACC034DG**	**NSYCUACC038DG**	**NSYCUACC032DG**	**NSYCUACC022DG**
	NSYCUACC009DG	**NSYCUACC035DG**	-	-	-
	NSYCUACC009DG	**NSYCUACC035DG**	-	-	-
	NSYCUACC009DG	**NSYCUACC035DG**	**NSYCUACC039DG**	-	-
	NSYCUACC009DG	**NSYCUACC035DG**	**NSYCUACC039DG**	-	-
	NSYCUACC009DG	**NSYCUACC036DG**	-	**NSYCUACC023DG** - Flush **NSYCUACC024DG** - Half-flush **NSYCUACC025DG** - Surface	-
	NSYCUACC009DG	**NSYCUACC036DG**	-	**NSYCUACC023DG** - Flush **NSYCUACC024DG** - Half-flush **NSYCUACC025DG** - Surface	-
	NSYCUACC009DG	**NSYCUACC036DG**	**NSYCUACC040DG**	**NSYCUACC023DG** - Flush **NSYCUACC024DG** - Half-flush **NSYCUACC025DG** - Surface	**NSYCUACC029DG** - Flush **NSYCUACC030DG** - Half-flush **NSYCUACC031DG** - Surface
	NSYCUACC009DG	**NSYCUACC036DG**	-	**NSYCUACC023DG** - Flush **NSYCUACC024DG** - Half-flush **NSYCUACC025DG** - Surface	-
	NSYCUACC009DG	**NSYCUACC036DG**	-	**NSYCUACC023DG** - Flush **NSYCUACC024DG** - Half-flush **NSYCUACC025DG** - Surface	-
	NSYCUACC009DG	**NSYCUACC036DG**	**NSYCUACC040DG**	**NSYCUACC023DG** - Flush **NSYCUACC024DG** - Half-flush **NSYCUACC025DG** - Surface	**NSYCUACC029DG** - Flush **NSYCUACC030DG** - Half-flush **NSYCUACC031DG** - Surface
	NSYCUACC009DG	**NSYCUACC037DG**	-	**NSYCUACC026DG** - Flush **NSYCUACC027DG** - Half-flush **NSYCUACC028DG** - Surface	-
	NSYCUACC009DG	**NSYCUACC037DG**	-	**NSYCUACC026DG** - Flush **NSYCUACC027DG** - Half-flush **NSYCUACC028DG** - Surface	-
	NSYCUACC009DG	**NSYCUACC037DG**	-	-	-
	NSYCUACC009DG	-	-	**NSYCUACC033DG**	-
	NSYCUACC009DG	-	-	**NSYCUACC018DG**	-
	NSYCUACC009DG	-	-	**NSYCUACC018DG**	-
	NSYCUACC009DG	-	-	**NSYCUACC019DG**	-
	NSYCUACC009DG	-	-	**NSYCUACC019DG**	-
	NSYCUACC009DG	-	-	**NSYCUACC019DG**	-
	NSYCUACC009DG	-	-	**NSYCUACC019DG**	-
	NSYCUACC009DG	-	-	**NSYCUACC020DG**	-
	NSYCUACC009DG	-	-	**NSYCUACC020DG**	-
	NSYCUACC009DG	-	-	**NSYCUACC021DG**	-
	NSYCUACC009DG	-	-	**NSYCUACC021DG**	-
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5

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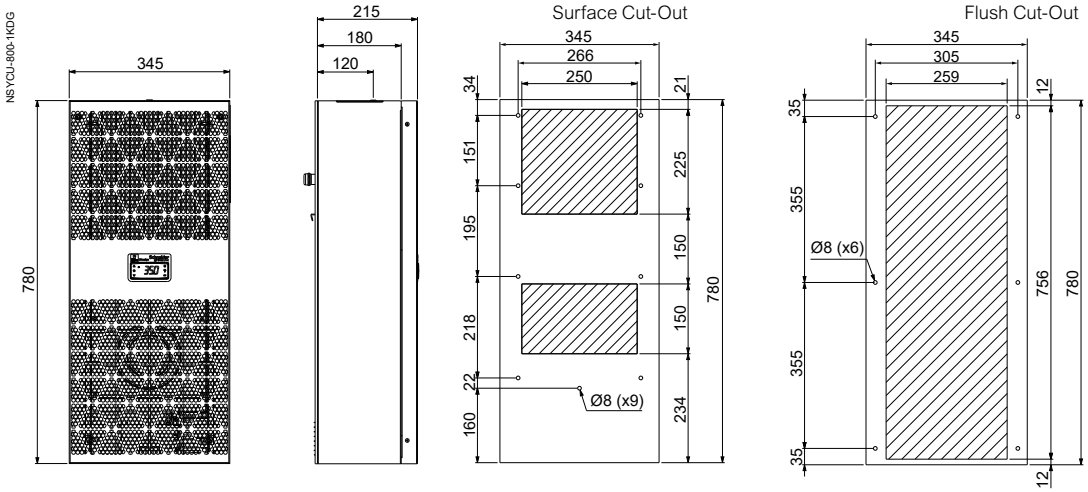
Dimensions

Side-Mounted Models: Dimensions and Cut-Outs



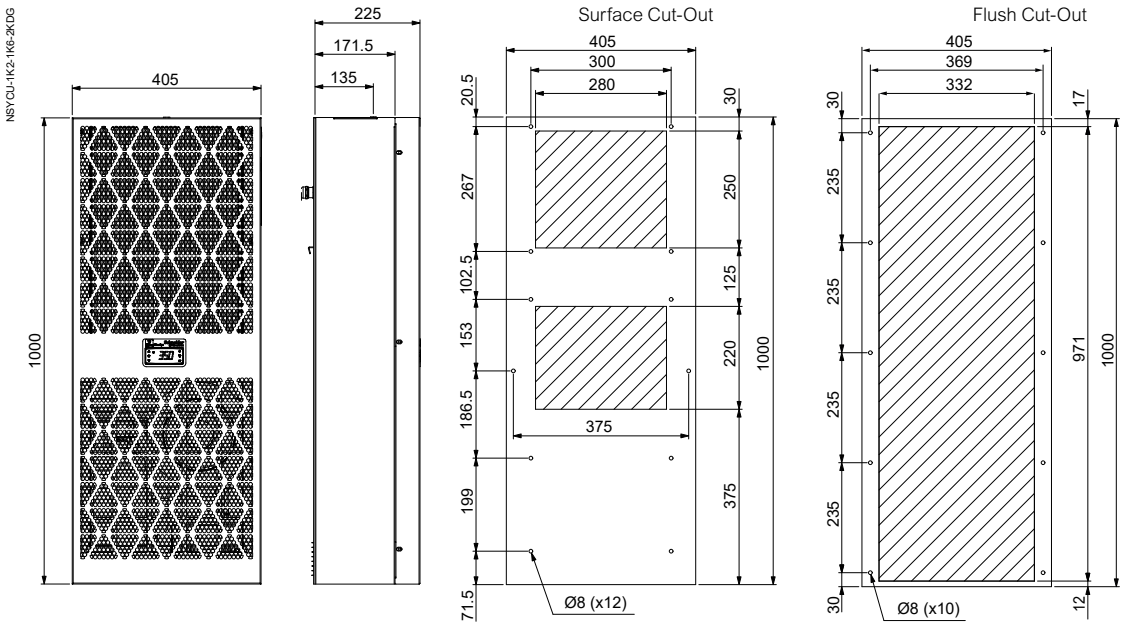
The Half-flush drawings are available on se.com

NSYCU350DG / NSYCUX350DG / NSYCU600DG / NSYCUX600DG



The Half-flush drawings are available on se.com

NSYCU800DG / NSYCU8002P4DG / NSYCU1KDG / NSYCUX1KDG / NSYCU1K2P4DG / NSYCUX1K2P4DG



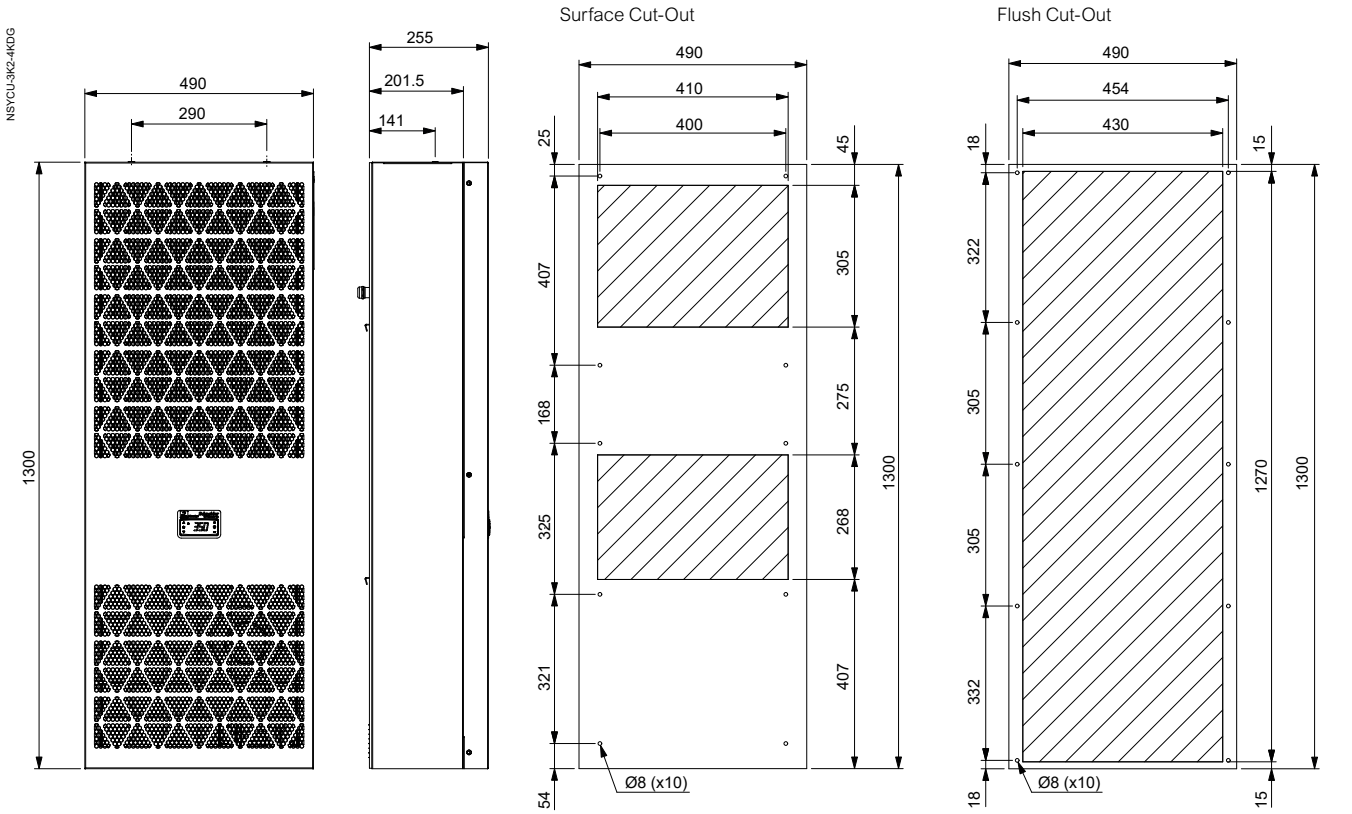
The Half-flush drawings are available on se.com

NSYCU1K2DG / NSYCU1K22P4DG / NSYCU1K6DG / NSYCUX1K6DG / NSYCU1K62P4DG / NSYCU2KDG / NSYCU2K3P4DG / NSYCUX2K3P4DG

Indoor Side Cooling Unit Mounting Types Could Be either Surface, Half-Flush or Flush, and Out-Door Side Cooling Unit Mounting Type Is Only Surface.
Units of Measurement Are mm

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Side-Mounted Models: Dimensions and Cut-Outs



The Half-flush drawings are available on se.com

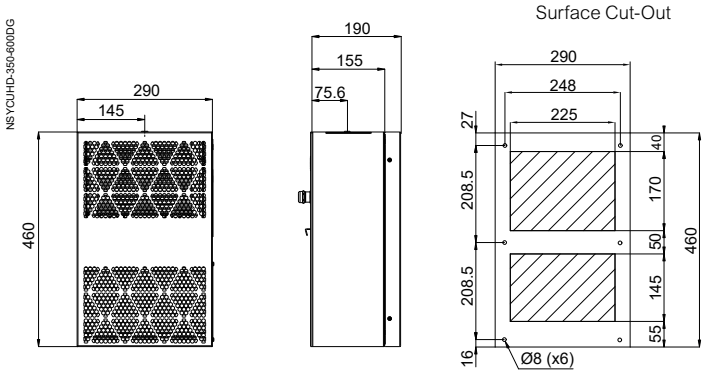
NSYCU3K2DG / NSYCU3K23P4DG / NSYCU4K3P4DG

Indoor Side Cooling Unit Mounting Types Could Be either Surface, Half-Flush or Flush, and Out-Door Side Cooling Unit Mounting Type Is Only Surface.
Units of Measurement Are mm

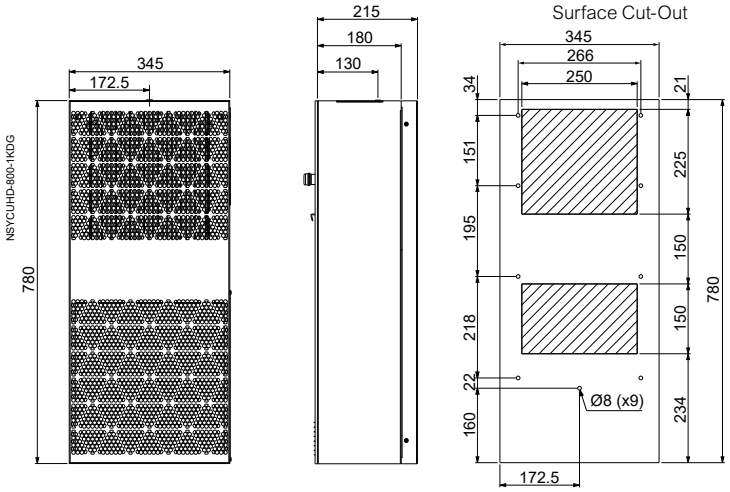
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Dimensions

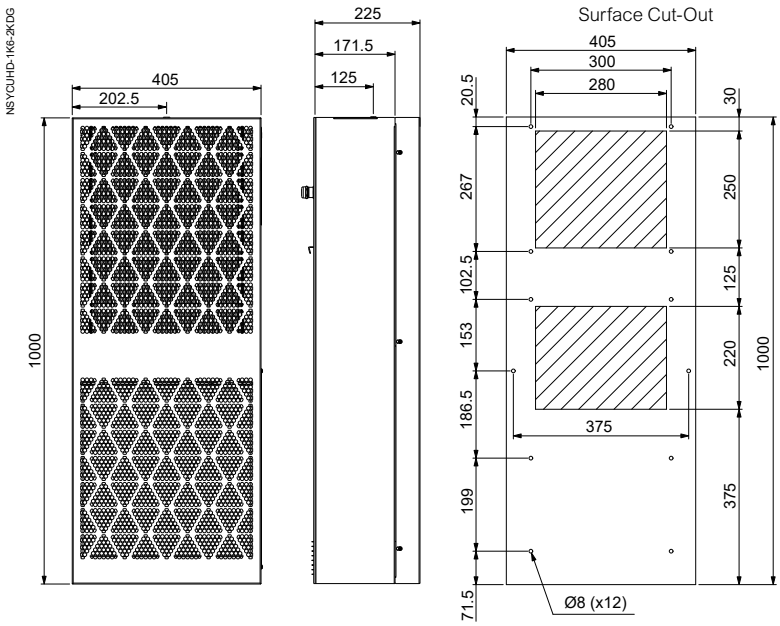
Outdoor Side-Mounted Models: Dimensions and Cut-Outs



NSYCUHD350DG / NSYCUHD600DG



NSYCUHD800DG / NSYCUHD1KDG / NSYCUHD1K2P4DG

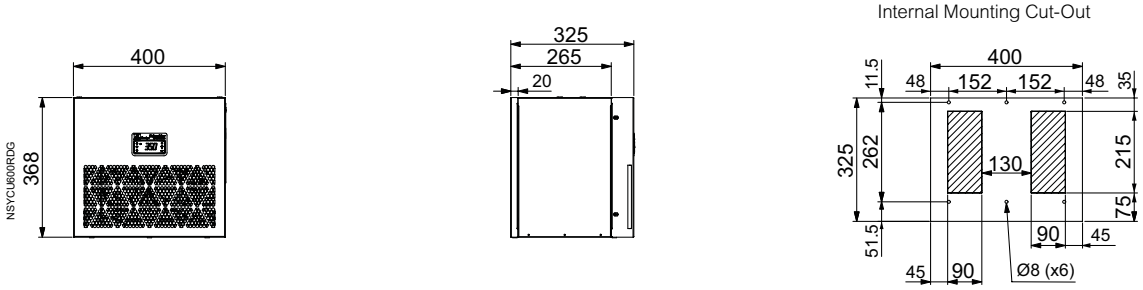


NSYCUHD1K6DG / NSYCUHD1K62P4DG / NSYCUHD2K3P4DG

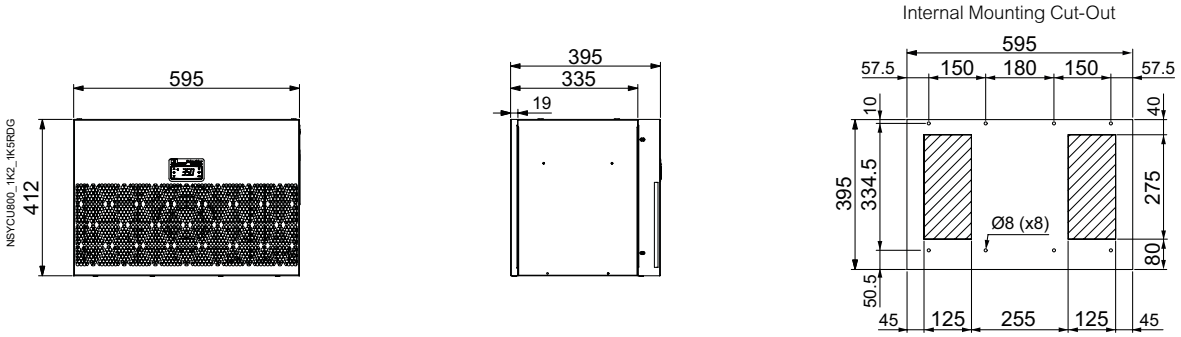
Indoor Side Cooling Unit Mounting Types Could Be either Surface, Half-Flush or Flush, and Out-Door Side Cooling Unit Mounting Type Is Only Surface.
Units of Measurement Are mm

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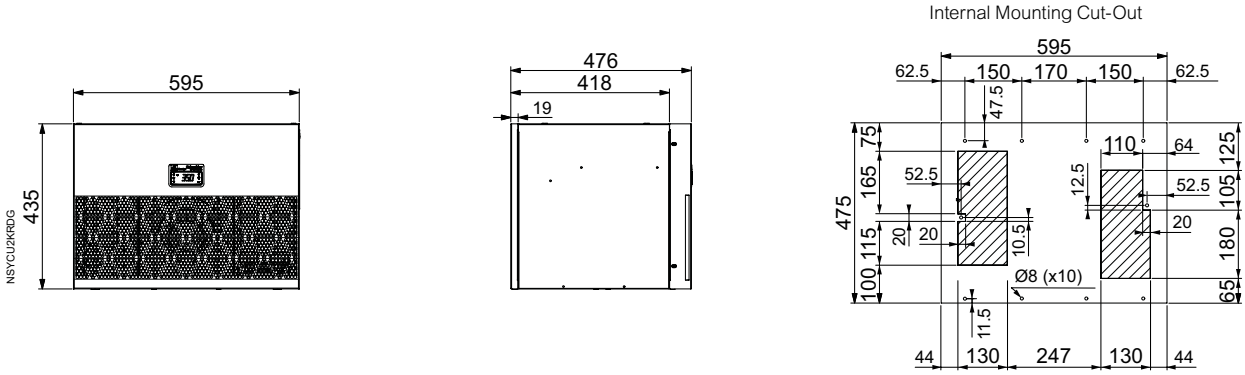
Roof-Mounted Models: Dimensions and Cut-Outs



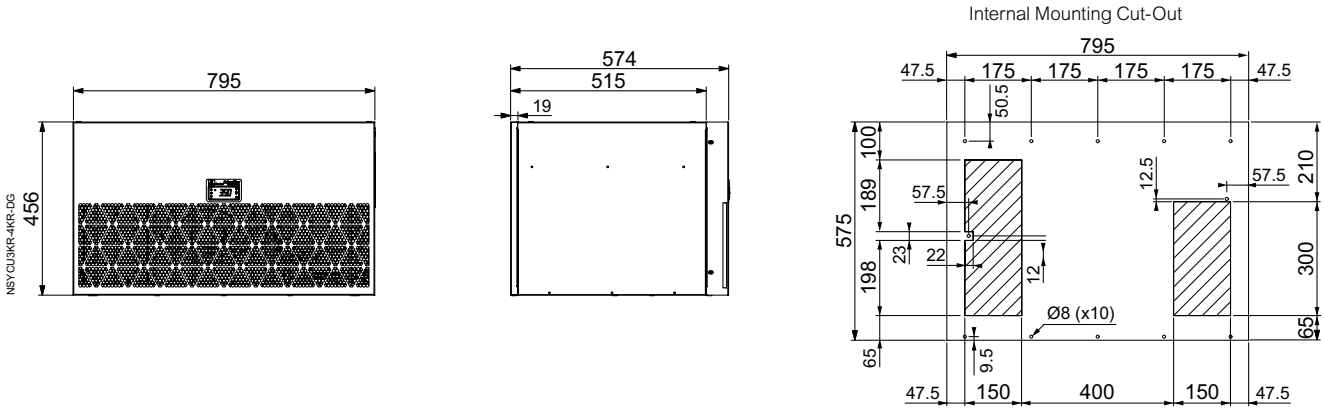
NSYCU600RDG



NSYCU800RDG / NSYCU8002P4RDG / NSYCU1K2RDG / NSYCU1K22P4RDG / NSYCU1K5RDG / NSYCU1K52P4RDG



NSYCU2KRDG / NSYCU2K3P4RDG



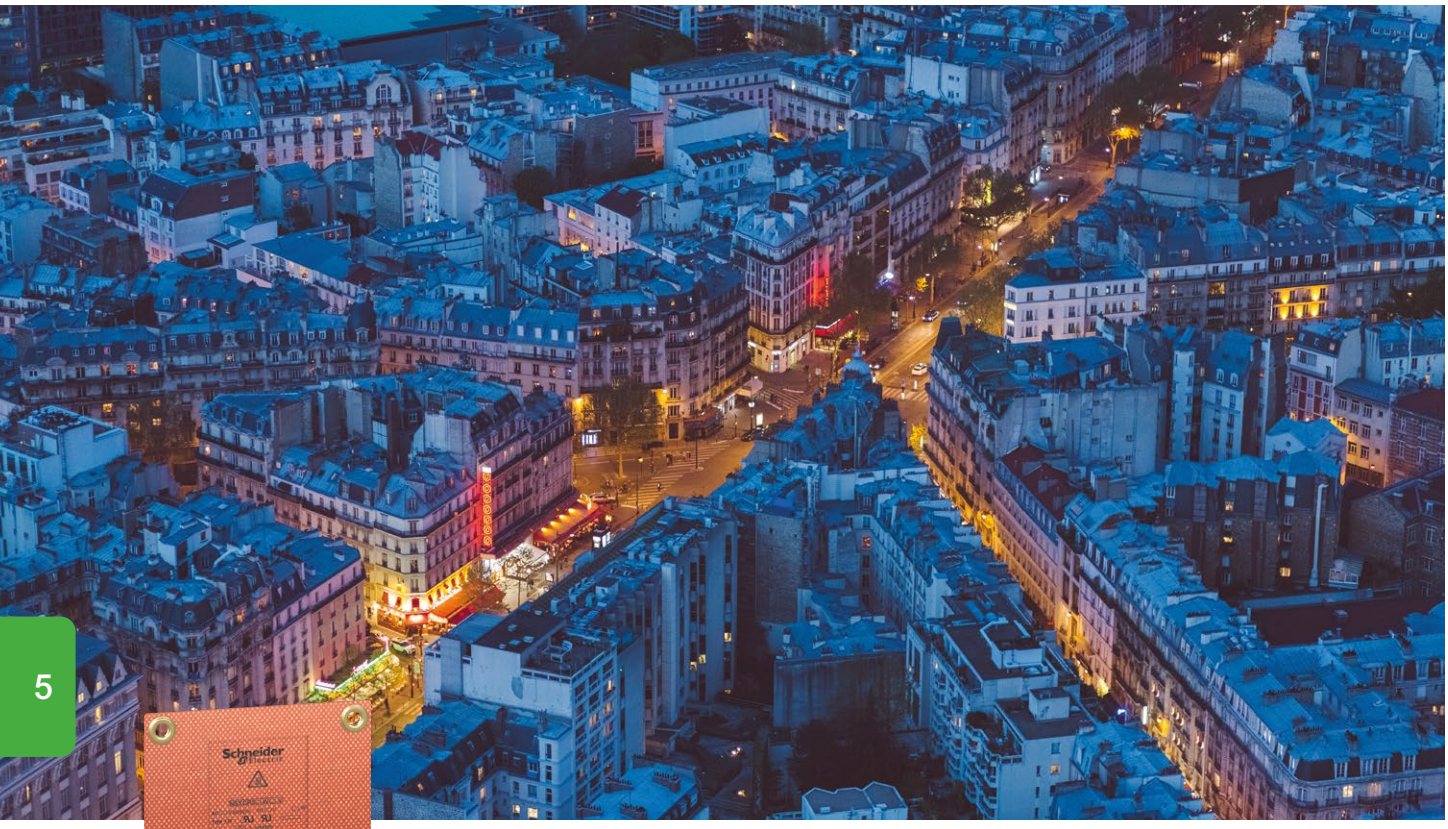
NSYCU3K3P4RDG / NSYCU4K3P4RDG

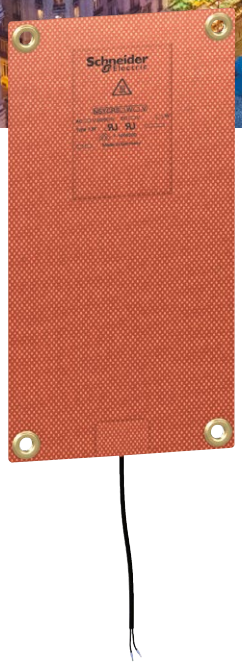
Units of Measurement Are mm

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ClimaSys CRS: Ultra Thin Heaters

Introduction



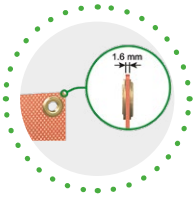


Ultra-thin resistance heaters have been designed to resolve condensation problems in the most complex installations.
Is your enclosure short of space?
Does your mounting plate make it impossible to install a conventional heater?
Do you not want to take out the equipment?
Discover the benefits of this new offer and its numerous mounting solutions.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

ClimaSys CRS: Ultra Thin Heaters

Introduction



Small Size (Thickness = 1.6 mm)

- The space saving available for the equipment compared with a conventional resistor can be up to 30%



Heat and Safety

- The heat is distributed over the whole surface and does not exceed 70 °C. This temperature allows devices next to the heater to be handled safely



Multiple Options for Fixing

- Innovative quick-fixing system using Velcro pads (no need for a tool!) or with basic fixing accessories (screw + spacer). These systems make it easy to move the heater if necessary



Numerous Positions for Installation

- These heaters are so slim and flexible they can be installed in a variety of positions:
  - Vertically on side panels
  - On the mounting plate



Energy Efficiency

- Ultra-thin resistance heaters have a low starting current



No Electromagnetic Emissions

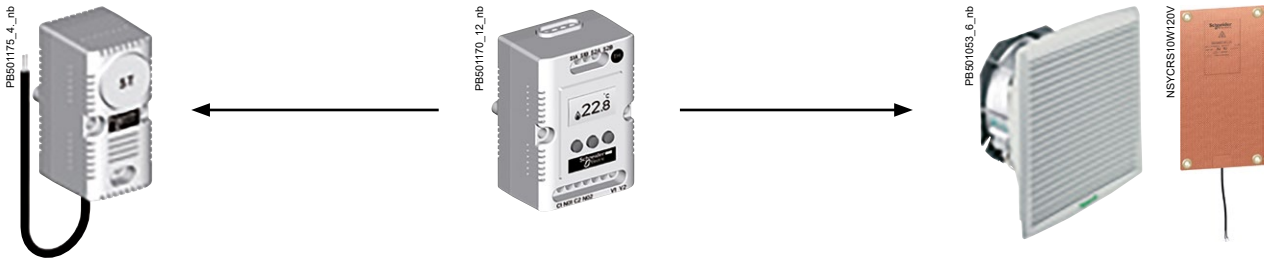
- These resistors can be installed near electronic equipment to help ensure an optimal temperature

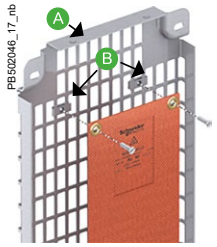
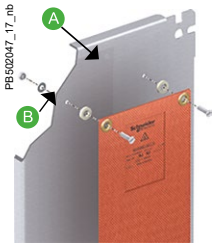
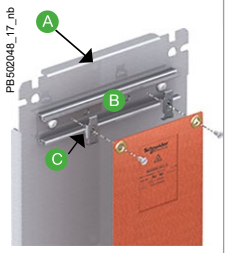
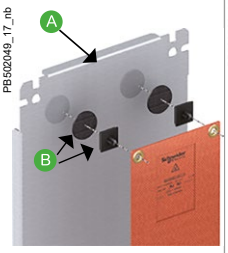
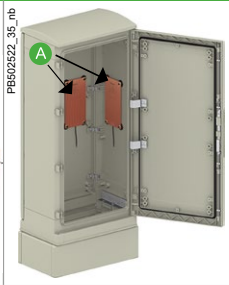
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ClimaSys CRS: Ultra Thin Heaters

Characteristics and Selection Guide

Other Characteristics - Electrical Circuit Diagram



Electrical Circuit Diagram					
					
5 mounting solutions:	On a Telequick mounting plate	On plain or micro-perforated mounting plate with fixing hardware	On DIN rail	On plain mounting plate with self-adhesive Velcro pads	On wall with self-adhesive Velcro pads
	A Telequick mounting plate, ref. **NSYMR●●●●** B Telequick nuts, ref. **AF1EA●**, supplied with the mounting kit	A Mounting plate, ref. **NSYMM●●●●** B Fixing hardware included in the mounting kit	A Mounting plate, ref. **NSYMM●●●●** B Symmetrical DIN rail, ref. **NSYSDR●●●●** C Clip-on nuts, ref. **AF1CG●**, supplied with the mounting kit	A Mounting plate, ref. **NSYMM●●●●** B Self-adhesive Velcro pad and plastic fixings supplied with the mounting kit	A Self-adhesive Velcro pads and plastic fixings supplied in the mounting kit

Characteristics	
	Flexible, ultra-thin resistance heaters to be installed inside the enclosure
Material	Silicon reinforced with fiberglass
Color	Red (heaters), black (cables)
Certification	**UL**
Supply	• 6 self-adhesive Velcro pads • 6 plastic fixings • 4 Telequick nuts • 4 clip-on nuts • Fixing hardware

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Ultra-Thin Resistance Heaters



NSYCRS10W120V

Flexible, ultra-thin resistance heaters to be installed inside the enclosure
- Material: Silicon reinforced with fiberglass
- Color: Red (heaters), black (cables)
- Certification: UL (cURus)

Comment:
Ultra-thin resistance heaters can be manufactured with other dimensions and power ratings than those indicated above. Please contact us.

Characteristics	Power (W)	Voltage (V)	Inrush current (A)	Height (mm)	Width (mm)	Depth (mm)	References
Ultra-thin resistance heaters	10	240	0.04	110	140	1.6	**NSYCRS10W240V**
Ultra-thin resistance heaters	25	240	0.10	110	230	1.6	**NSYCRS25W240V**
Ultra-thin resistance heaters	50	240	0.21	200	320	1.6	**NSYCRS50W240V**
Ultra-thin resistance heaters	100	240	0.42	260	440	1.6	**NSYCRS100W240V**
Ultra-thin resistance heaters	200	240	0.83	380	650	1.6	**NSYCRS200W240V**

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Resistance Heaters

Climasys CR

Introduction



Resistance heaters help prevent the formation of condensation and help guarantee the correct temperature for the correct operation of the electronic components in the enclosure.

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Insulated PTC Heaters



Large Range of Power Levels
- 2 versions: By natural convection or by fan
- AC or DC power supply
- 7 power levels from 10 W to 550 W



Easy Installation and Connection
- Reduced dimensions
- Quick electric connection by terminal board
- No maintenance required
- Direct clipping onto a 35-mm DIN rail



Safety
- The protection helps prevent direct contact with the aluminum radiator
- Electric protection device with terminal block cover
- Equipped with a PTC-type heater
- Surface temperature lower than 70 °C

High Thermal Efficiency
- The configuration of the aluminum profile produces a “chimney” effect: high natural convection
- Low power consumption thanks to self-control of the PTC-type heater



Innovating Design



Models with Fan
- The heaters equipped with a fan helps to ensure circulation of the air and a uniform temperature inside the enclosure
- High-flow, silent fan

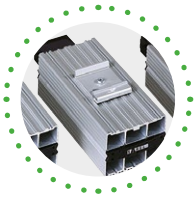


Certifications
- CE marking
- Range compliant with UL and VDE, UL (*only the marked references)

Aluminum PTC Heaters



Models with Fan
- Models of 250 to 400 W with fan



Quick-Fixing
- The resistance heaters are fixed by means of fixing clips to a 35-mm DIN rail



Resistance Heaters Equipped with a PTC-Type Sensor
The resistance heaters for electrical and electronic enclosures are equipped with PTC-type heating devices (Positive Temperature Coefficient). Thanks to these heaters:
- The surface temperature stabilises at 75 °C when the ambient temperature is -5 °C
- Power consumption is reduced

Improved Convection
- The design of the profile of the resistance heaters produces a “chimney” effect, leading to increased natural convection and maintaining an even temperature inside the enclosure



Connection Cables
- The 10 and 20-W heaters are equipped with a 2 x 0.75 x 300 mm power cord



Connection Terminal Boards
- Heaters with a power of more than 20 W are equipped with a connection terminal board

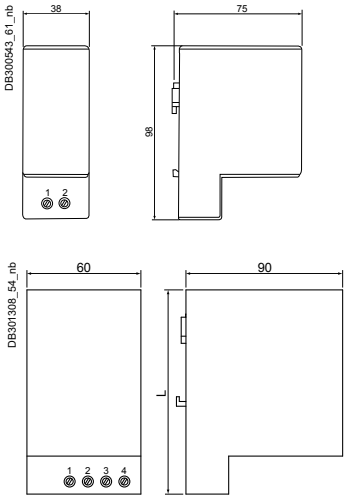
Large range of power levels
- 8 power levels from 10 W to 400 W

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Climasys CR: PTC Isolated Heaters

Characteristics

Insulated PTC Resistance Heaters





NSYCR10WU2C



NSYCR50WU2C

- Compact resistance heater helps preventing the formation of condensation or frost.
- Designed to help ensure natural convection and high thermal efficiency.
- Material: Extruded aluminum body
- Conditions of use: The heaters must be installed with a thermal controller (see selection table on page 466 and 467) to control the temperature or the humidity inside the enclosure
- The enclosure must be sealed to help prevent the entry of air from the outside
- An electrical protection device must be installed on the supply side of the unit
- Operating position: Vertical
- Operating temperature: -40…+70 °C; -10…+158 °F
- Surface temperature: <70 °C, except for the top protection grille
- Ingress protection rating: IP20
- Certifications: UL (cURus) only the reference marked with (*), Class II (double insulated)
- Mounting: By clip on a 35-mm DIN rail

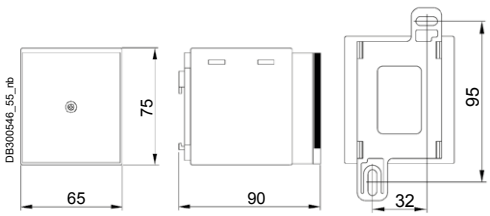
Characteristics	Heating power at 0 °C (W)	Voltage (V)	Electric connection	References
Insulated PTC resistance heater	10	12-24 AC/DC	2 screw terminals, 2.5 mm²	**NSYCR10WU1C**
Insulated PTC resistance heater	10	120-240 AC/DC	2 screw terminals, 2.5 mm²	**NSYCR10WU2C ***
Insulated PTC resistance heater	20	12-24 AC/DC	2 screw terminals, 2.5 mm²	**NSYCR20WU1C**
Insulated PTC resistance heater	20	120-240 AC/DC	2 screw terminals, 2.5 mm²	**NSYCR20WU2C ***
Insulated PTC resistance heater	55	12-24 AC/DC	4 screw terminals, 2.5 mm²	**NSYCR50WU1C**
Insulated PTC resistance heater	55	120-240 AC/DC	4 screw terminals, 2.5 mm²	**NSYCR50WU2C ***
Insulated PTC resistance heater	55	270-420 AC/DC	4 screw terminals, 2.5 mm²	**NSYCR50WU3C**
Insulated PTC resistance heater	100	12-24 AC/DC	4 screw terminals, 2.5 mm²	**NSYCR100WU1C**
Insulated PTC resistance heater	100	120-240 AC/DC	4 screw terminals, 2.5 mm²	**NSYCR100WU2C ***
Insulated PTC resistance heater	100	270-420 AC/DC	4 screw terminals, 2.5 mm²	**NSYCR100WU3C**
Insulated PTC resistance heater	147	12-24 AC/DC	4 screw terminals, 2.5 mm²	**NSYCR150WU1C**
Insulated PTC resistance heater	147	120-240 AC/DC	4 screw terminals, 2.5 mm²	**NSYCR150WU2C ***

Insulated Ventilated PTC Heaters



NSYCR170W230VVC

- Compact resistance heater helps preventing the formation of condensation or frost.
- Designed to help ensure good natural convection and high thermal efficiency.
- Material: Extruded aluminum body
- Conditions of use: The heaters must be installed with a thermal controller (see selection table on page 466 and 467) to control the temperature or the humidity inside the enclosure
- The enclosure must be sealed to help prevent the entry of air from the outside
- An electrical protection device must be installed on the supply side of the unit
- Operating position: Vertical
- Operating temperature: -40…+70 °C; -10…+158 °F
- Surface temperature: Max. 50 °C in the enclosure, 100 °C on the top protection grille, (for an ambient temperature of 20 °C / 68 °F)
- Ingress protection rating: IP20
- Certifications: VDE and UL, Cover: UL 94 V-0 plastic, Class II (double insulated)
- Mounting: By clip on a 35-mm DIN rail



Characteristics	Heating power at 0 °C (W)	Voltage (V)	Electric connection	References
Insulated ventilated PTC heater	177	230 AC / 50-60 HZ	2 poles, 2.5 mm²	**NSYCR170W230VVC**

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Aluminum PTC Heaters

- Extruded aluminum body.
- Surface temperature limited to 75 °C when the ambient temperature is -5 °C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

Conditions of use:

- The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure
- The enclosure must be sealed to help prevent the entry of air from the outside
- An electrical protection device must be installed on the supply side of the unit
- Certifications: UL (cURus) only the reference marked with (*), Class II (double insulated)



NSYCR10WU1



NSYCR250W115VV

Characteristics	Power (W)	Voltage (V)	References
Aluminum PTC heater	10	12-24 DC	**NSYCR10WU1**
Aluminum PTC heater	10	110-250 AC	**NSYCR10WU2 ***
Aluminum PTC heater	20	12-24 DC	**NSYCR20WU1**
Aluminum PTC heater	20	110-250 AC	**NSYCR20WU2 ***
Aluminum PTC heater	20	270-420 AC	**NSYCR20WU3**
Aluminum PTC heater	55	12-24 DC	**NSYCR55WU1**
Aluminum PTC heater	55	110-250 AC	**NSYCR55WU2 ***
Aluminum PTC heater	55	270-420 AC	**NSYCR55WU3**
Aluminum PTC heater	90	12-24 DC	**NSYCR100WU1**
Aluminum PTC heater	90	110-250 AC	**NSYCR100WU2 ***
Aluminum PTC heater	90	270-420 AC	**NSYCR100WU3**
Aluminum PTC heater	150	12-24 DC	**NSYCR150WU1**
Aluminum PTC heater	150	110-250 AC	**NSYCR150WU2 ***
Aluminum PTC heater	150	270-420 AC	**NSYCR150WU3**
Aluminum PTC heater with fan	250	230 AC	**NSYCR250W230VV**
Aluminum PTC heater with fan	400	230 AC	**NSYCR400W230VV**
Aluminium resistive heater with fan	200	230 AC	**NSYCRS200W230V**

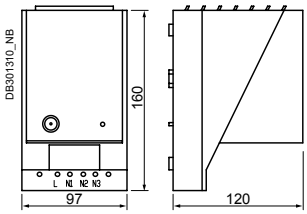
Thermofan



NSYCRP1W120VTVC

Combination of a resistance heater and an axial fan to help ensure uniform heating of the enclosure

- Fixing by clip on a DIN rail
- Thermostat adjustable from 0…+60 °C
- Visual operation indicator
- Certifications: UL (cURus).



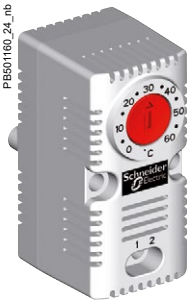
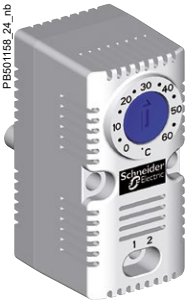
Characteristics	Power (W)	Voltage (V)	References
Thermofan	350/550	120 AC	**NSYCRP1W120VTVC**
Thermofan	350/550	230 AC	**NSYCRP1W230VTVC**

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ClimaSys CC

Introduction

Mechanical Thermostats

Characteristics	Thermostat with NC contact	with NO contact	with NO/NC contact	Double Thermostat
				
	NSYCCOTHC (NSYCCOTHCF)	**NSYCCOTHO (NSYCCOTHOF)**	**NSYCCOTHI**	**NSYCCOTHD (NSYCCOTHDF)**
	Thermostat with NC Contact: • To control the stopping of a resistance heater when the temperature exceeds the displayed value Thermostat with NO Contact: • To control the starting of a fan when the temperature exceeds the displayed maximum value • To control the temperature inside the enclosure by only starting the fan when necessary, thus increasing the service life of the fan and reducing the clogging of the filter			
Button color	Red	Blue	Black	Red and blue
Ingress protection rating	IP20	IP20	IP20	IP20
Sensor element	Bimetal	Bimetal	Bimetal	Bimetal
Contact	NC, forced rupture	NO, forced rupture	Inverse,forced rupture	NO/NC, forced rupture
Contact resistance	< 10 mΩ	< 10 mΩ	< 10 mΩ	< 10 mΩ
Service life	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles
Switching capacity with alternative current	• 250 V AC; 10 A (resistive load) • 120 V AC; 15 A (resistive load) • 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6)	• 250 V AC; 10 A (resistive load) • 120 V AC; 15 A (resistive load) • 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6)	• 250 V AC; 10 A (resistive load) • 120 V AC; 15 A (resistive load) • 250 V AC 4 A (inductive load cos ϕ = 0.6)	• 250 V AC; 10 A (resistive load) • 120 V AC; 15 A (resistive load) • 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6)
Max interrupting capacity with direct current	30 W DC	30 W DC	30 W DC	30 W DC
Connection	Two 2.5-mm² terminals	Two 2.5-mm² terminals	Four 2.5-mm² terminals	Six 2.5-mm² terminals
Enclosure	UL 94 V-0 plastic, light gray	UL 94 V-0 plastic, light gray	UL 94 V-0 plastic, light gray	UL 94 V-0 plastic, light gray
Dimensions	60 x 33 x 43 mm	60 x 33 x 43 mm	67 x 50 x 44 mm	67 x 50 x 44 mm
Weight	40 g	40 g	100 g	100 g
Mounting	4 different methods: By DIN rail, PanelSeT SFN profile, on VDI cross-rail or on mounting plate			
Operating temperature	-20...+80 °C (-4...+176 °F)	-20...+80 °C (-4...+176 °F)	-20...+80 °C (-4...+176 °F)	-20...+80 °C (-4...+176 °F)
Hysteresis	7± 4°K	7± 4°K	7± 4°K	7± 4°K
Temperature setting range	0...+60 °C	0...+60 °C	+5...+60 °C	0...+60 °C
Display	°C (°F)	°C (°F)	°C	°C (°F)

Thermal control



Mechanical and Electronic Thermostats

- Large range of temperature control
- Small dimensions
- Easily accessible terminals



LED Display

- Display visible even in the dark



Operational Temperature Range

- For mechanical thermostats: 0 °C ... +60 °C
- For electronic thermostats: -40 °C ... +80 °C

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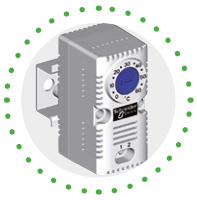
Electronic Thermostats with LED Display

Characteristics	Electronic thermostat With LED display	Electronic hygrotherm With LED display	Electronic hygrostat With LED display
			
	NSYCCOTH30VID **NSYCCOTH120VID** **NSYCCOTH230VID**	**NSYCCOHYT30VID** **NSYCCOHYT120VID** **NSYCCOHYT230VID**	- - **NSYCCOHY230VID**
	Electronic temperature controller	Electronic temperature and humidity controller	Electronic humidity controller
Ingress protection rating	IP20	IP20	IP20
Certification	UL / UR	UL / UR	UL / UR
Internal sensor element	Temperature sensor	Temperature sensor and humidity sensor	Humidity sensor
Contact	Free with zero potential	Free with zero potential	Free with zero potential
Connection	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 1 relay (2 x 2.5 mm²)
Mounting	4 different methods: By DIN rail, PanelSeT SFN profile, on VDI cross-rail or on mounting plate		
Enclosure	UL 94 V-0 plastic, light gray	UL 94 V-0 plastic, light gray	UL 94 V-0 plastic, light gray
Dimensions	85 x 56 x 44 mm	85 x 56 x 44 mm	85 x 56 x 44 mm
Operating temperature	-40 °C…+70 °C	-40 °C…+70 °C	-40 °C…+70 °C
Hysteresis	Programmed 2 K	Programmed 2 K and 3%	3%
Temperature setting range	-40 °C…+80 °C	-40 °C…+80 °C	-40 °C…+80 °C
Humidity setting range	-	20%…80%	20%…80%
Display	°C or °F	°C or °F or % RH	% RH
Max. command: Alternative current	Motor: 4.0 A / 13.1 A - FLA / LRA 250 V AC Resistive load: 4 A - 50 V DC	Motor: 4.0 A / 13.1 A - FLA / LRA 250 V AC Resistive load: 4 A - 50 V DC	Motor: 4.0 A / 13.1 A - FLA / LRA 250 V AC Resistive load: 4 A - 50 V DC
Max. command: Direct current	Resistive load: 4 A - 50 V DC	Resistive load: 4 A - 50 V DC	Resistive load: 4 A - 50 V DC

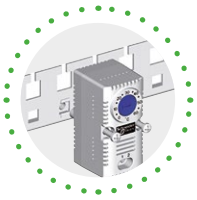
Input Current

Characteristics	References
9...30 V AC/CC, 50/60 Hz, SELV/Class 2 source, 15 W or less	**NSYCCO•••30VID**
90-140 V AC, 50/60 Hz, 1 VA	**NSYCCO•••120VID**
200-240 V AC, 50/60 Hz, 3.5 VA	**NSYCCO•••230VID**

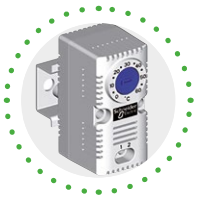
The New Quick-Fixing Systems



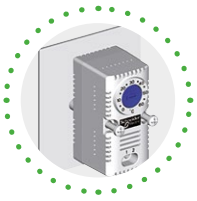
- On 35-mm DIN rail.



- On cross-rail.



- On PanelSeT upright.



- On mounting plate.

Certifications and Declarations

- On 35-mm DIN rail.

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ClimaSys CC

Characteristics

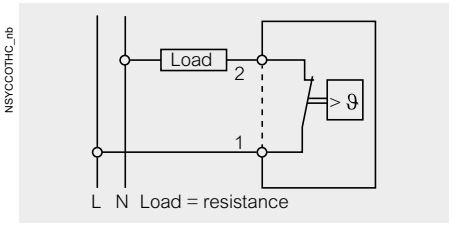
Mechanical Thermostats

- Ingress protection rating according to IEC 60529: IP20
- Sensor element: Bimetal
- Contact resistance: < 10 mΩ
- Service life: > 100,000 cycles
- Mounting: By clip on 35-mm DIN rail
- Enclosure: UL 94 V-0 plastic, light gray
- Mounting position: Indifferent
- Operating temperature: -20...+80 °C (-4...+176 °F)
- Hysteresis: 7± 4°K

Thermostat with NC Contact


NSYCCOTHC

- Button color: Red
- Contact: NC, forced rupture
- Switching capacity with alternative current:
  - 250 V AC; 10 A (resistive load)
  - 120 V AC; 15 A (resistive load)
  - 250 V AC/120 V AC 2 A (inductive load cos = 0.6)
- Max interrupting capacity with direct current: NC
- Connection: Two 2.5-mm² terminals
- Weight: 40 g
- Temperature setting range: 0...+60 °C

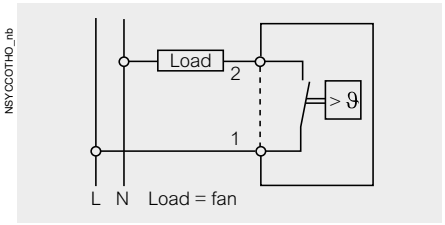


Characteristics	Display	Max. command intensity	Dimensions (H x W x D)	References
Thermostat with NC contact	°C	10 A 250 V	60 x 33 x 43 mm	**NSYCCOTHC**
Thermostat with NC contact	°F	10 A 250 V	60 x 33 x 43 mm	**NSYCCOTHCF**

Thermostat with NO Contact


NSYCCOTHO

- Button color: Blue
- Contact: NO, forced rupture
- Switching capacity with alternative current:
  - 250 V AC; 10 A (resistive load)
  - 120 V AC; 15 A (resistive load)
  - 250 V AC/120 V AC 2 A (inductive load cos = 0.6)
- Max interrupting capacity with direct current: NO
- Connection: Two 2.5-mm² terminals
- Weight: 40 g
- Temperature setting range: 0...+60 °C

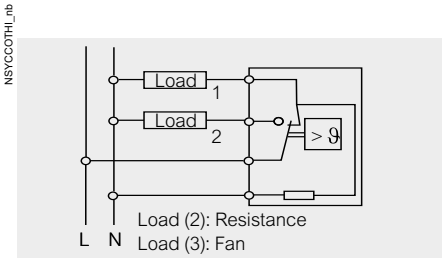


Characteristics	Display	Max. command intensity	Dimensions (H x W x D)	References
Thermostat with NO contact	°C	10 A 250 V	60 x 33 x 43 mm	**NSYCCOTHO**
Thermostat with NO contact	°F	10 A 250 V	60 x 33 x 43 mm	**NSYCCOTHOF**

Thermostat with NO/NC Contact


NSYCCOTHI

- Button color: Black
- Contact: Inverse,forced rupture
- Switching capacity with alternative current:
  - 250 V AC; 10 A (resistive load)
- Max interrupting capacity with direct current:
  - 250 V AC 4 A (inductive load cos = 0.6)
  - 120 V AC; 15 A (resistive load)
  - 250 V AC 4 A (inductive load cos = 0.6)
- Connection: Four 2.5-mm² terminals
- Weight: 100 g
- Temperature setting range: +5...+60 °C

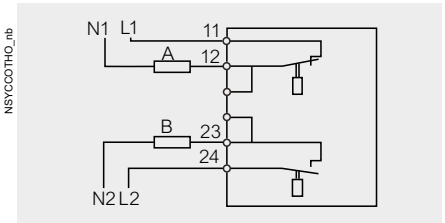


Characteristics	Display	Max. command intensity	Dimensions (H x W x D)	References
Thermostat with NO/NC contact	°C	(NO) 5 A (NC) 10 A	67 x 50 x 44 mm	**NSYCCOTHI**

Double Thermostat


NSYCCOTHD

- Button color: Red and blue
- Contact: NO / NC, forced rupture
- Switching capacity with alternative current:
  - 250 V AC; 10 A (resistive load)
  - 120 V AC; 15 A (resistive load)
  - 250 V AC/120 V AC 2 A (inductive load cos = 0.6)
- Max interrupting capacity with direct current: NA
- Connection: Six 2.5-mm² terminals
- Weight: 40 g
- Temperature setting range: 0...+60 °C



Characteristics	Display	Max. command intensity	Dimensions (H x W x D)	References
Double Thermostat	°C	(NO) 5 A (NC) 10 A	60 x 33 x 43 mm	**NSYCCOTHD**
Double Thermostat	°F	(NO) 5 A (NC) 10 A	60 x 33 x 43 mm	**NSYCCOTHDF**

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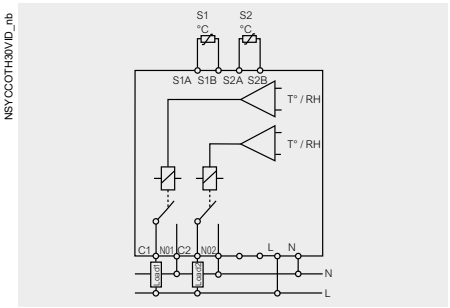
Electronic Thermostats

- Ingress protection rating according to IEC 60529: IP20
- Certification: UL / UR
- Contact resistance: Free with zero potential
- Mounting: 4 methods: By DIN rail, PanelSeT SFN profile, on VDI cross-rail or on mounting platel
- Enclosure: UL 94 V-0 plastic, light gray
- Operating temperature: -40 °C…+70 °C
- Hysteresis: 7 K
- Max. command intensity: Motor: 4 / 13.1 A, FLA / LRA, 250 Vac Resistive load: 4 A, 250 Vdc

Electronic Thermostats with LED Display



NSYCCOTH30VID



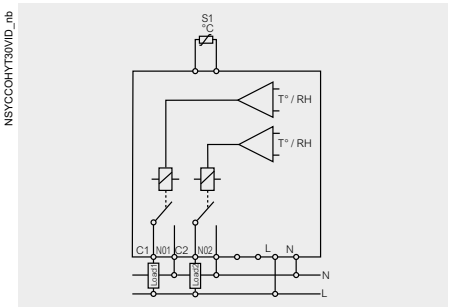
- Internal sensor element: Temperature sensor
- Connection:2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)
- Hysteresis:Programmed 2 K
- Temperature setting range: -40 °C…+80 °C

Characteristics	Display	Voltage (type of current)	References
Electronic thermostats, with LED display	°C or °F	9-30 V (AC/DC)	**NSYCCOTH30VID**
Electronic thermostats, with LED display	°C or °F	90-140 V (AC)	**NSYCCOTH120VID**
Electronic thermostats, with LED display	°C or °F	200-240 V (AC)	**NSYCCOTH230VID**

Electronic Hygrotherm



NSYCCOHYT30VID



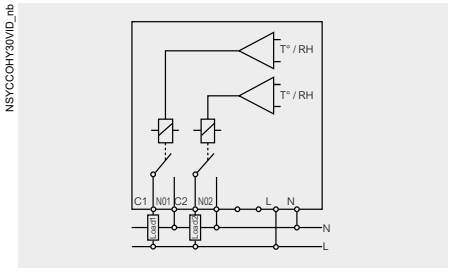
- Internal sensor element: Temperature sensor and humidity sensor
- Connection: 2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)
- Hysteresis: Programmed 2 K and 3%
- Temperature setting range: -40 °C…+80 °C
- Humidity setting range: 20%…80%

Characteristics	Display	Voltage (type of current)	References
Electronic hygrotherm	°C or °F or % RH	9-30 V (AC/DC)	**NSYCCOHYT30VID**
Electronic hygrotherm	°C or °F or % RH	90-140 V (AC)	**NSYCCOHYT120VID**
Electronic hygrotherm	°C or °F or % RH	200-240 V (AC)	**NSYCCOHYT230VID**

Electronic Hygrostat



NSYCCOHY30VID



- Internal sensor element: Humidity sensor
- Connection: 2 x 2.5 mm² (input voltage) + 1 relay (2 x 2.5 mm²)
- Hysteresis: 3%
- Humidity setting range: 20%…80%

Characteristics	Display	Voltage (type of current)	References
Electronic hygrostat	% RH	200-240 V (AC)	**NSYCCOHY230VID**

External Temperature Sensor (Double Insulation)



NSYCCAST

Sensor operation or reading range: -40 °C…+150 °C.
Thermostat installation tips: The thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that meets your needs. Hygrostat installation tips: The hygrostat should be installed at the bottom of the enclosure. 60% RH is the optimal value in the enclosure.

- Ingress protection rating: IP67
- Fixing: On DIN rail, on PanelSeT SFN profile, on VDI cross-rail, on mounting plate

Characteristics	Length of cable supplied	References
External temperature sensor	3 m	**NSYCCASTE**

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5

Proclima Web Software

Introduction

Thermal Conditions: A Hot Topic for Enclosures

Temperature, humidity, and dew point all affect the performance of your electrical and electronic enclosures. Problem is, unless these environments are sized properly, thermal conditions will compromise reliability, safety, and efficiency, as well as the lifetime of your panels.
The precise knowledge of the thermal conditions is therefore indispensable to choose the most appropriate thermal management solution.

ProClima Web Software



ProClima Web Software provides the user with an optimized thermal management solution for:
- Automation and control panels.
- Motor Control Center panels (generally with Variable Speed Drives).

ProClima Web Software takes into account variables such ass temperature, humidity, sun radiation and indoor or outdoor settings, in a nominal environment (without any dust, sand or corrosion). If the actual conditions involve a risk of dust, sand or corrosion, please adapt the proposed thermal solution. You can refer to the **Control Panel Technical Guide CPTG001_EN** and do not hesitate to contact your regular Schneider Electric sales point of contact.

The ProClima Web Software:
- Draws up a heat balance and defines the optimized ventilation, control, heating and cooling system to match your installed equipment temperature and humidity nominal characteristics.
- Optimizes your thermal management solution to minimize under- or over- sizing of designs.

The ProClima Web Software is recommended for panel architecture without any segregation of the compartments.
The heat which is taken into account is calculated for volume. This is especially adapted for automation and control, and Motor Control Center applications

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Benefits of ProClima Web Software

- Web software with regular and constant online updates
- Intuitive navigation available in all browser languages
- Reports are available in English, French, Spanish, German, Polish, Russian and Italian
- Cybersecurity level A
- Energy efficiency criteria used
- Analyze different thermal options in one enclosure
- CAD files available for enclosures, cooling units and heat exchangers devices
- Enclosure drawings illustrate the design of your installation
- A dimensional checklist is drawn up to help ensure the solution is compatible with your enclosure size
- Download useful technical documentations
- Get a complete final thermal report ans add your own company logo to it

Applications of the software

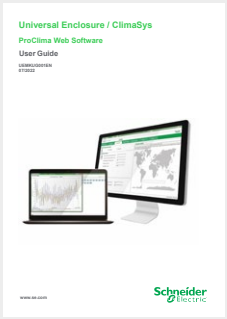
- Indoor and outdoors installations
- Infrastructures
- Automotive industries
- Original Equipment Manufacturers (OEMs)

Download ProClima Free Software



Design the optimal thermal management solution for your control panels and keep up the health of electric and electronic devices inside your enclosures.

ProClima Web Software User Guide



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Accessories

Mounting Accessories

PB500072_11_1



PB500222_45_nb



Fixing, Coupling and Composition Accessories

NSY2SPN124



Cable Management Accessories

PB500023_35_nb



PB500218_32_nb



PB500218_32_nb



Door Accessories

PB500188_35_nb



PB500223_25_nb



Other Accessories

PB500084_43_nb



PB500217_29_nb



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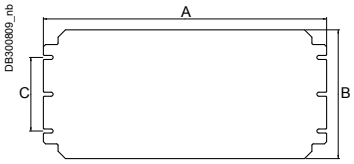
Mounting Accessories

Mounting Plates

Plain Mounting Plate

SBM SBX

- Material: Galvanized steel
- Installation: Mounting by means of 2* or 4 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB**. Mounting plate installation points compatible with many other brands of accessories.



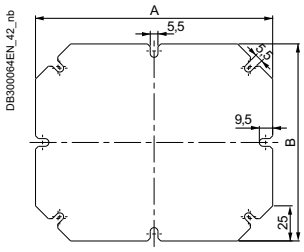
Comment:
* Only 2 screws for mounting plates with height of 150 mm

Supply:
1 unit, supplied without screws


NSYMM11SB

Characteristics	Height (mm)	Width (mm)	References
Plain mounting plate	125	135	**NSYMM11SB**
Plain mounting plate	125	185	**NSYMM12SB**
Plain mounting plate	125	285	**NSYMM13SB**
Plain mounting plate	125	385	**NSYMM14SB**
Plain mounting plate	175	185	**NSYMM22SB**
Plain mounting plate	175	265	**NSYMM23SB**
Plain mounting plate	175	385	**NSYMM24SB**
Plain mounting plate	175	485	**NSYMM25SB**
Plain mounting plate	175	585	**NSYMM26SB**
Plain mounting plate	175	785	**NSYMM28SB**
Plain mounting plate	275	285	**NSYMM33SB**
Plain mounting plate	275	385	**NSYMM34SB**
Plain mounting plate	275	485	**NSYMM35SB**
Plain mounting plate	275	585	**NSYMM36SB**
Plain mounting plate	275	785	**NSYMM38SB**
Plain mounting plate	375	385	**NSYMM44SB**
Plain mounting plate	375	485	**NSYMM45SB**
Plain mounting plate	375	585	**NSYMM46SB**
Plain mounting plate	375	785	**NSYMM48SB**

TBS TBP

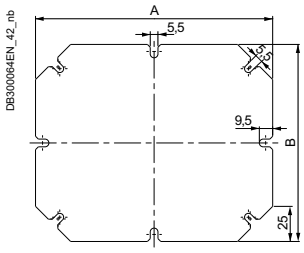


- Mounting plates made to adapt to all usage scenarios.
- Material: Galvanized steel
- Thickness: 15/10e mm
- Installation: Fixing by means of Ø 4 mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB**

Supply:
Plates supplied without screws


NSYAMPM1916TB

Characteristics	Box		Dimensions			References
	Height (mm)	Width (mm)	A (mm)	B (mm)	Minor pack.	
Mounting plate	192	164	168.5	140	1	**NSYAMPM1916TB**
Mounting plate	241	194	215	168.5	1	**NSYAMPM2419TB**
Mounting plate	291	241	265	215	1	**NSYAMPM2924TB**
Mounting plate	341	291	315	265	1	**NSYAMPM3429TB**



- Mounting plates made to adapt to all usage scenarios.
- Material: Insulated polyester plate reinforced with fiberglass, halogen-free: Glow wire resistance 750 °C.
- Thickness: 25/10e mm
- Installation: Fixing by means of Ø 4 mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB**

Supply:
Plates supplied without screws


NSYAMPA1916TB

Characteristics	Box		Dimensions			References
	Height (mm)	Width (mm)	A (mm)	B (mm)	Minor pack.	
Insulated mounting plate	192	164	168.5	140	1	**NSYAMPA1916TB**
Insulated mounting plate	241	194	215	168.5	1	**NSYAMPA2419TB**
Insulated mounting plate	291	241	265	215	1	**NSYAMPA2924TB**
Insulated mounting plate	341	291	315	265	1	**NSYAMPA3429TB**

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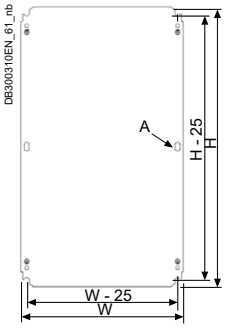
Plain Mounting plate

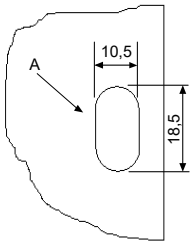
CRN | S3D | S3X | PLM | S3HD | S3DEX

- Material: Galvanized steel
- Maximum load:PLM: 150 kg/m²
- S3D, S3X, CRN: 250 kg/m²
- Supply: One mounting plate without fixing elements

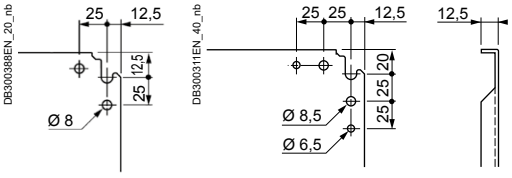


Characteristics	Height (mm)	width (mm)	References
Plain mounting plate	150	150	**NSYMM22**
Plain mounting plate	200	150	**NSYMM2520**
Plain mounting plate	250	200	**NSYMM3025***
Plain mounting plate	200	350	**NSYMM2540**
Plain mounting plate	200	450	**NSYMM2550**
Plain mounting plate	250	150	**NSYMM32**
Plain mounting plate	250	250	**NSYMM33**
Plain mounting plate	250	350	**NSYMM43***
Plain mounting plate	250	400	**NSYMM3045**
Plain mounting plate	450	250	**NSYMM53***
Plain mounting plate	250	550	**NSYMM36**
Plain mounting plate	350	350	**NSYMM44**
Plain mounting plate	350	550	**NSYMM64***
Plain mounting plate	350	750	**NSYMM48**
Plain mounting plate	450	350	**NSYMM54**
Plain mounting plate	450	450	**NSYMM55***
Plain mounting plate	550	450	**NSYMM65**
Plain mounting plate	550	550	**NSYMM66**
Plain mounting plate	650	450	**NSYMM75**
Plain mounting plate	650	550	**NSYMM76**
Plain mounting plate	750	550	**NSYMM86***
Plain mounting plate	750	750	**NSYMM88**
Plain mounting plate	950	750	**NSYMM108**
Plain mounting plate	950	550	**NSYMM106**
Plain mounting plate	950	950	**NSYMM1010**
Plain mounting plate	1150	550	**NSYMM126**
Plain mounting plate	1150	750	**NSYMM128**
Plain mounting plate	1150	950	**NSYMM1210***
Plain mounting plate	1150	1150	**NSYMM1212**
Plain mounting plate	1350	950	**NSYMM1410**





Exclusive to Sizes Equal to or Greater Than 1000 x 800 mm



From Size 1000 x 1000 mm

6

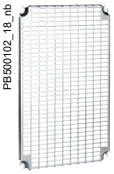
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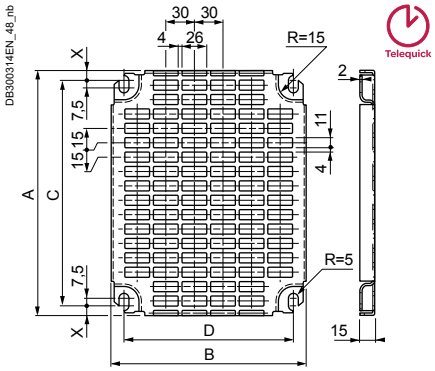
Mounting Accessories

Mounting Plates

Perforated Mounting Plate Telequick

CRN | S3D | S3X | PLM | SD | S3DEX





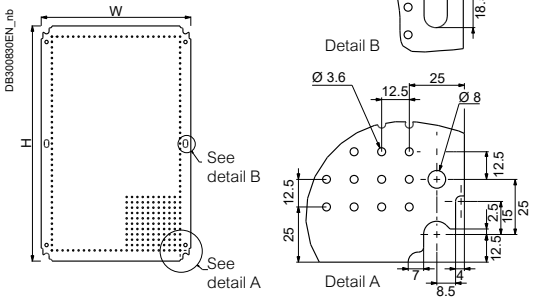
- Grille with 11 x 26 mm drill holes, with a step of 15 x 30 mm, for direct installation, with clip nuts, of all the devices with fixing at 2, 3 or 4 points, by screws with diameters of 3, 4, 5 or 6 mm.
- Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 512).
- The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).
- Material: Galvanized steel
- Maximum load: 150 kg/m²
- Supply: One mounting plate

Characteristics	Height (mm)	Width (mm)	Number of perforations		References
			height (mm)	width (mm)	
Telequick mounting plate	250	150	16	5	**NSYMR32**
Telequick mounting plate	250	200	16	8	**NSYMR3025**
Telequick mounting plate	250	250	16	9	**NSYMR33**
Telequick mounting plate	250	350	18	11	**NSYMR34**
Telequick mounting plate	250	350	22	9	**NSYMR43**
Telequick mounting plate	350	350	24	11	**NSYMR44**
Telequick mounting plate	350	350	24	19	**NSYMR46**
Telequick mounting plate	450	250	29	9	**NSYMR53**
Telequick mounting plate	450	350	31	11	**NSYMR54**
Telequick mounting plate	450	450	31	14	**NSYMR55**
Telequick mounting plate	550	350	38	11	**NSYMR64**
Telequick mounting plate	550	450	38	14	**NSYMR65**
Telequick mounting plate	550	550	38	17	**NSYMR66**
Telequick mounting plate	550	750	36	24	**NSYMR68**
Telequick mounting plate	650	450	44	14	**NSYMR75**
Telequick mounting plate	650	550	44	17	**NSYMR76**
Telequick mounting plate	750	550	51	17	**NSYMR86**
Telequick mounting plate	750	750	51	24	**NSYMR88**
Telequick mounting plate	750	550	51	17	2 x **NSYMR86**
Telequick mounting plate	950	1150	49	31	**NSYMR810**
Telequick mounting plate	950	550	64	17	**NSYMR106**
Telequick mounting plate	950	750	64	24	**NSYMR108**
Telequick mounting plate	950	950	62	31	**NSYMR1010**
Telequick mounting plate	950	1150	62	37	**NSYMR1012**
Telequick mounting plate	1150	550	75	17	**NSYMR126**
Telequick mounting plate	1150	750	75	24	**NSYMR128**
Telequick mounting plate	1150	950	75	31	**NSYMR1210**
Telequick mounting plate	1150	1150	75	17	2 x **NSYMR126**
Telequick mounting plate	1350	950	88	31	**NSYMR1410**

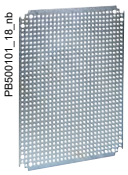
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Microperforated Mounting Plate

CRN | S3D | S3X | PLM | SD | S3DEX



- They considerably reduce products installation time thanks to the holes prepared to receive the self-tapping screws. Holes with Ø 3.6 mm in steps of 12.5 mm. M4 self-tapping screws of class 6.8 minimum to be used.
- Material: Galvanized steel
- Maximum load:PLM: 150 kg/m²
- S3D, S3X, CRN: 250 kg/m²
- Supply: One mounting plate without fixing elements

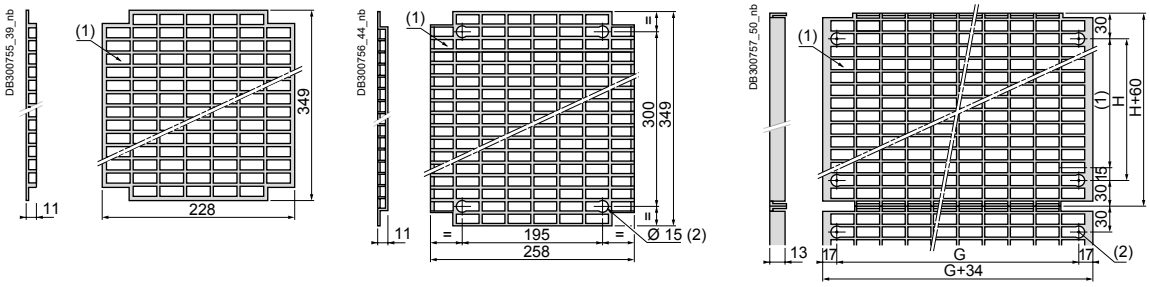


Characteristics	Height (mm)	width (mm)	References
Microperorated mounting plate	250	150	**NSYMF32**
Microperorated mounting plate	250	250	**NSYMF33**
Microperorated mounting plate	250	350	**NSYMF43***
Microperorated mounting plate	350	350	**NSYMF44**
Microperorated mounting plate	450	250	**NSYMF53**
Microperorated mounting plate	450	350	**NSYMF54**
Microperorated mounting plate	450	450	**NSYMF55**
Microperorated mounting plate	550	350	**NSYMF64***
Microperorated mounting plate	550	450	**NSYMF65**
Microperorated mounting plate	550	550	**NSYMF66**
Microperorated mounting plate	650	450	**NSYMF75**
Microperorated mounting plate	750	550	**NSYMF86***
Microperorated mounting plate	750	750	**NSYMF88**
Microperorated mounting plate	950	550	**NSYMF106**
Microperorated mounting plate	950	750	**NSYMF108***
Microperorated mounting plate	950	950	**NSYMF1010**
Microperorated mounting plate	1150	550	**NSYMF126**
Microperorated mounting plate	1150	750	**NSYMF128**
Microperorated mounting plate	1150	950	**NSYMF1210***
Microperorated mounting plate	1150	1150	2 x **NSYMF126**

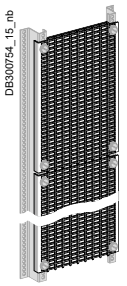
Joinable Telequick Mounting Plate

CRN | S3D | S3X | PLM

Telequick



- 20/10e mm Telequick mounting plates.
- These mounting plates are suitable for mounting vertically multiple plates.
- 11 x 26 mm slots.
- Switchgear fixing by clip-on nuts.
- Material: Zinc-coated steel
- Supply: One mounting plate and fixing elements



Characteristics	Height (mm)	width (mm)	References
Joinable telequick Mounting plate	349	228	**AM1PA3015**
Joinable telequick Mounting plate	349	258	**AM1PA3020**
Joinable telequick Mounting plate	360	734	**AM1PA3070**
Joinable telequick Mounting plate	465	334	**AM1PA4030**
Joinable telequick Mounting plate	660	434	**AM1PA6040**
Joinable telequick Mounting plate	660	534	**AM1PA6050**
Joinable telequick Mounting plate	660	634	**AM1PA6060**
Joinable telequick Mounting plate	960	634	**AM1PA9060**
Joinable telequick Mounting plate	960	734	**AM1PA9070**

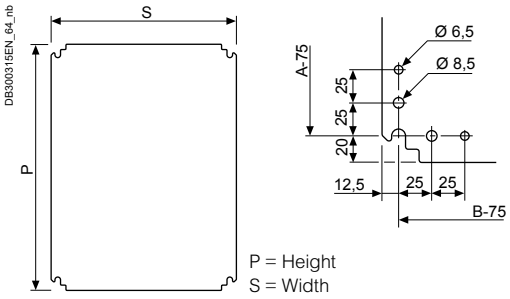
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Mounting Accessories

Mounting Plates

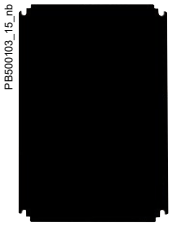
Bakelite Mounting Plate

CRN S3D S3X PLM



P = Height
S = Width

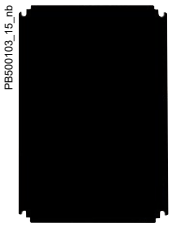
- They are coupled directly to the rear of the actual enclosure or to the sliding plate supports.
- Double-door enclosures offer the option of installing two plates.
- Material: Bakelite
- Color: RAL 9005 black
- Maximum load:100 kg/m²
- Supply: One mounting plate without fixing elements



Characteristics	Height (mm)	width (mm)	Thick.	References
Bakelite mounting plate	265	150	4	**NSYMB32**
Bakelite mounting plate	265	200	4	**NSYMB3025**
Bakelite mounting plate	325	250	4	**NSYMB43**
Bakelite mounting plate	465	350	4	**NSYMB54**
Bakelite mounting plate	565	350	4	**NSYMB64**
Bakelite mounting plate	565	450	4	**NSYMB65**
Bakelite mounting plate	665	450	4	**NSYMB75**
Bakelite mounting plate	765	550	4	**NSYMB86**
Bakelite mounting plate	765	550	4	2 x **NSYMB86**
Bakelite mounting plate	965	750	4	**NSYMB108**
Bakelite mounting plate	1150	950	4	**NSYMB1210**

PLA

- Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 512). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).
- In the two door enclosures, it is possible to install one complete mounting plate or two individual mounting plates.
- Material: Bakelite
- Thickness: 4 mm
- Maximum load: 100 kg/m²
- Supply: One mounting plate

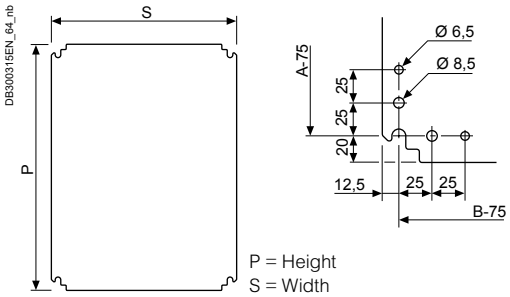


Characteristics	Heigth (A) (mm)	Width (B) (mm)	References
Bakelite mounting plate	500	500	**NSYPMB55**
Bakelite mounting plate	500	750	**NSYPMB75**
Bakelite mounting plate	500	1000	**NSYPMB510**
Bakelite mounting plate	500	500 + 750	**NSYPMB55** + **NSYPMB75**
Bakelite mounting plate	750	500	**NSYPMB75**
Bakelite mounting plate	750	750	**NSYPMB77**
Bakelite mounting plate	750	1000	**NSYPMB710**
Bakelite mounting plate	750	1250	**NSYPMB712**
Bakelite mounting plate	1000	500	**NSYPMB105**
Bakelite mounting plate	1000	750	**NSYPMB107**
Bakelite mounting plate	1000	1000	**NSYPMB1010**
Bakelite mounting plate	1000	1250	**NSYPMB1012**
Bakelite mounting plate	1250	500	**NSYPMB125**
Bakelite mounting plate	1250	750	**NSYPMB127**
Bakelite mounting plate	1250	1000	**NSYPMB1210**
Bakelite mounting plate	1250	1250	**NSYPMB1212**
Bakelite mounting plate	1500	500	**NSYPMB155**
Bakelite mounting plate	1500	750	**NSYPMB157**
Bakelite mounting plate	1500	1000	**NSYPMB1510**
Bakelite mounting plate	1500	1250	**NSYPMB1512**
Bakelite mounting plate	2 x 1000	750	2 x **NSYPMB107**

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Polyester Mounting Plate

CRN S3D S3X PLM



P = Height
S = Width

- They are coupled directly to the rear of the actual enclosure or to the sliding plate supports.
- Double-door enclosures offer the option of installing two plates.
- Material: Polyester reinforced with fiberglass
- Color: RAL 7035 gray
- Maximum load:150 kg/m²
- Supply: One mounting plate without fixing elements



Characteristics	Height (mm)	width (mm)	Thick.	References
Polyester mounting plate	265	150	4	**NSYMPP32**
Polyester mounting plate	325	250	4	**NSYMPP43**
Polyester mounting plate	465	350	4	**NSYMPP54**
Polyester mounting plate	565	350	4	**NSYMPP64**
Polyester mounting plate	665	450	4	**NSYMPP75**
Polyester mounting plate	765	550	5	**NSYMPP86**
Polyester mounting plate	965	750	5	**NSYMPP108**

PLA

- Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 512). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. NSYTEX8, to be ordered separately).
- In the two door enclosures, it is possible to install one complete mounting plate or two individual mounting plates.
- Material: Polyester
- Thickness:
  - 4 mm up to 700 mm height
  - 5 mm from 800 mm height
- Maximum load: 100 kg/m²
- Supply: One mounting plate



Characteristics	Heigth (A) (mm)	Width (B) (mm)	References
Polyester mounting plate	500	500	**NSYPMA55**
Polyester mounting plate	500	750	**NSYPMA75**
Polyester mounting plate	500	500 + 750	**NSYPMA55** + **NSYPMA75**
Polyester mounting plate	750	500	**NSYPMA75**
Polyester mounting plate	750	750	**NSYPMA77**
Polyester mounting plate	1000	500	**NSYPMA105**
Polyester mounting plate	1000	750	**NSYPMA107**
Polyester mounting plate	1250	750	**NSYPMA127**
Polyester mounting plate	2 x 1000	750	2 x **NSYPMA107**

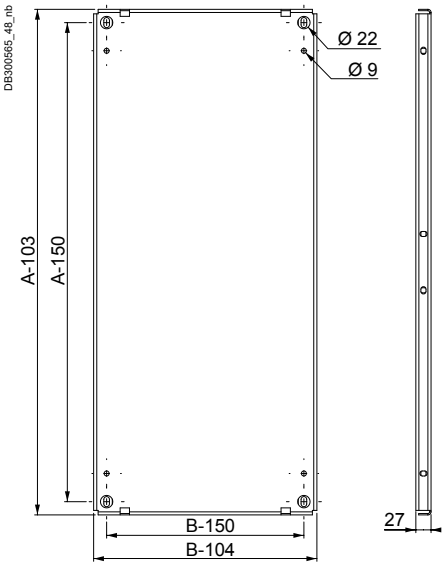
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Mounting Accessories

Mounting Plates

Plain Mounting Plate

SM | SFN | SMX | SFX | SD | SFN HD | SFN 6G



- Depth adjustable with a pitch of 25 mm, provided with plastic shoe for easier sliding.
- Once the plate is fixed, in advanced position, the sliding shoe can be easily removed to increase the available plate surface.
- In sets made up of two or more enclosures with mounting plates, it is possible to obtain a continuous plate surface using intermediate mounting plates (see page 487).
- Load: 300 kg/ m²
- Maximum load: 600 kg in the back of the enclosure and 500 kg in the intermediate position
- Material: Galvanized steel

Fixing options:
- At the sides of the enclosure with the orthogonal brackets (see page 483)
- Back-to-back, with the brackets for fixing the mounting plates in back-to-back position (see page 483)
- For 400 mm wide plates: with sliding rails and brackets, orthogonal brackets when mounted at back position, or with standard fixing brackets when mounted at middle position.

Note:
Accesories must be purchased separately (depending on the fixation at the back or in the mid position).

NSYSMPS rails always needed
NSYSMPB brackets for intermediate position
NSYSMPSB brackets for back position

Supply:
One mounting plate and sliding shoes.


NSYMP184

Characteristics	Width of the enclosure (mm)	Height of the enclosure (mm)	Width (mm)	Height (mm)	References
Plain mounting plate	400	1800	296	1697	**NSYMP184**
Plain mounting plate	400	2000	296	2097	**NSYMP204**
Plain mounting plate	400	2200	296	1897	**NSYMP224**
Plain mounting plate	600	1200	496	1097	**NSYMP126**
Plain mounting plate	600	1400	496	1297	**NSYMP146**
Plain mounting plate	600	1600	496	1497	**NSYMP166**
Plain mounting plate	600	1800	496	1697	**NSYMP186**
Plain mounting plate	600	2000	496	1897	**NSYMP206**
Plain mounting plate	600	2200	496	2097	**NSYMP226**
Plain mounting plate	800	1200	696	1097	**NSYMP128**
Plain mounting plate	800	1400	696	1297	**NSYMP148**
Plain mounting plate	800	1600	696	1497	**NSYMP168**
Plain mounting plate	800	1800	696	1697	**NSYMP188**
Plain mounting plate	800	2000	696	1897	**NSYMP208**
Plain mounting plate	800	2200	696	2097	**NSYMP228**
Plain mounting plate	1000	1200	896	1097	**NSYMP1210**
Plain mounting plate	1000	1400	896	1297	**NSYMP1410**
Plain mounting plate	1000	1600	896	1497	**NSYMP1610**
Plain mounting plate	1000	1800	896	1697	**NSYMP1810**
Plain mounting plate	1000	2000	896	1897	**NSYMP2010**
Plain mounting plate	1000	2200	896	2097	**NSYMP2210**
Plain mounting plate	1200	1200	1096	1097	**NSYMP1212**
Plain mounting plate	1200	1400	1096	1297	**NSYMP1412**
Plain mounting plate	1200	1600	1096	1497	**NSYMP1612**
Plain mounting plate	1200	1800	1096	1697	**NSYMP1812**
Plain mounting plate	1200	2000	1096	1897	**NSYMP2012**
Plain mounting plate	1200	2200	1096	2097	**NSYMP2212**
Plain mounting plate	1600	1800	1496	1697	**NSYMP1816**
Plain mounting plate	1600	2000	1496	1897	**NSYMP2016**

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Extra Large Mounting Plate

SFN

PB503923



- Extended mounting plates for PanelSeT SFN, to use the maximum space available.
- Mounting plates can be coupled for a continuous mounting surface.
- Easy installation by side-entry rails, see page 497
- Material: Galvanized steel
- Supply: One mounting plate

Characteristics	Height (mm)	Width (mm)	References
Extra large mounting plate	1800	800	**NSYMP188L**
Extra large mounting plate	2000	800	**NSYMP208L**
Extra large mounting plate	2000	1000	**NSYMP2010L**

Further dimensions available on demand.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Mounting Accessories

Accessories for Floor-Standing Mounting Plates

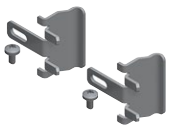
Intermediate Fixing of the Mounting Plate, Located in the Back of the Enclosure

SM SFN SFX



- Support for additional fixing of the mounting plate, at any height of the plate when the plate is mounted in the back of the enclosure.
- The supports minimize the vibration of the plate during the transport and operation of the panel.
- Material: Zinc-coated steel
- **Fixing:** The supports are fixed to the structure when the plate is already located in the back of the enclosure
  PanelSeT SM: Fixing to 40 mm universal cross-rails (one row), installed vertically in the back of the enclosure, see page 493

Supply:
Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30…)


NSYSMPFB

Characteristics	References
Intermediate fixing of the mounting plate, located in the back of the enclosure	**NSYSMPFB**

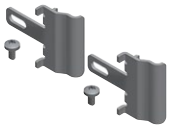
Intermediate Fixing of the Mounting Plate, in Advanced Position

SM SFN SFX



- Support for additional fixing of the mounting plate, at any height of the plate when the plate is mounted in advanced position.
- The supports minimize the vibration of the plate during the transport and operation of the panel.
- Material: Zinc-coated steel
- **Fixing:** The supports are mounted on light cross-rails or on 40 mm (one row) universal or quick-fixing cross-rails (not supplied), see page 493

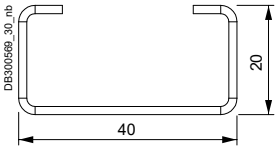
Supply:
Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30…)


NSYSMPFA

Characteristics	References
Intermediate fixing of the mounting plate, in advanced position	**NSYSMPFA**

Reinforcement for Mounting Plate

SM SFN SFX



- Reinforcement kit for transversal mounting plate.
- Provides extra rigidity to the mounting plates and absorbs vibrations.
- Not compatible with extra-large mounting plates
- Can be used as a support for fixing very heavy elements.
- Material: Zinc-coated steel
- Thickness: 15/10e mm

Supply:
Two profiles, four supports for fixing to the mounting plate and fixing elements


NSYMPRK8

Characteristics	Width (mm)	References
Reinforcement for mounting plate	800	**NSYMPRK8**
Reinforcement for mounting plate	1000	**NSYMPRK10**
Reinforcement for mounting plate	1200	**NSYMPRK12**
Reinforcement for mounting plate	1600	**NSYMPRK16**

Elevator for Microperforated Mounting Plate

- Mounting plate elevator to mount the microperforated mounting plate on the same level as the other Telequick system components.

Supply:
Four units


AZ1CA04

Characteristics	Reference
Elevator for microperforated mounting plate	**AZ1CA04**

Mounting Plate Sliding Rails

SFN SFN HD



- Rail in which the mounting plate slides along when inserted in the enclosure.
- Once the mounting plate is installed and fixed to the brackets, the sliding rails can be removed to maximize the cable passage surface, and can be installed depthwise in other positions.
- Material: Galvanized steel

Supply:
Four brackets and fixing elements


NSYSMPS4

Characteristics	Depth (mm)	References
Mounting plate sliding rails	400	**NSYSMPS4**
Mounting plate sliding rails	500	**NSYSMPS5**
Mounting plate sliding rails	600	**NSYSMPS6**
Mounting plate sliding rails	800	**NSYSMPS8**

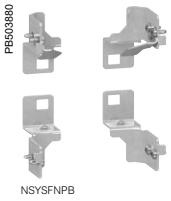
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Mounting Accessories

Accessories for Floor-Standing Mounting Plates

Mounting Plate Fixing Brackets

SM SFN SMX SFX



- For direct mounting on the structure of the enclosure.
- Adjustable depth with a pitch of 25 mm.
- Material: Zinc-coated steel
- Maximum load: Four brackets: 600 kg

Supply:
Four brackets and fixing elements

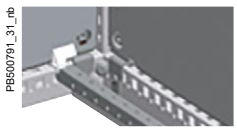
Characteristics	References
Mounting plate fixing brackets	**NSYSFNPB**
Mounting plate fixing brackets	**NSYSMPB**

Orthogonal Brackets

SFN SFX



- Designed for the installation of mounting plates on the sides of the enclosure.
- When installing one plate in the back of the enclosure and one plate at the side, they must both be installed using orthogonal brackets.
- PanelSeT SFX: Mounting the lateral mounting plate requires the removal of the one on the back and its fixing brackets.
- Material: Zinc-coated steel
- Maximum load: Four brackets: 600 kg

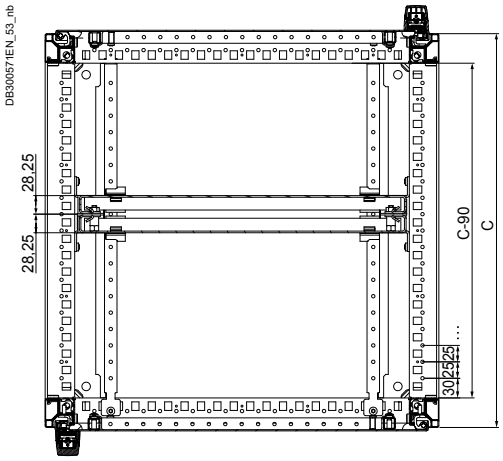


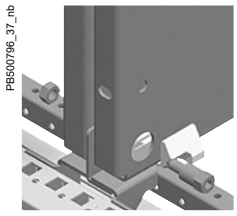
Supply:
Four brackets and fixing elements

Characteristics	References
Orthogonal brackets	**NSYSMPSB**

Brackets for Fixing Mounting Plates in Back-to-Back Position

SFN







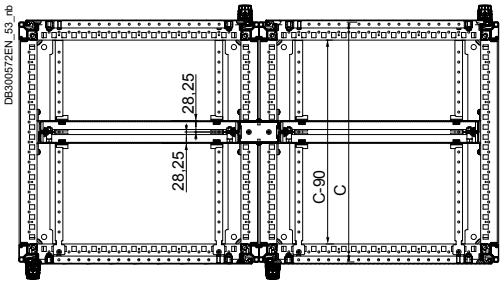
- Doubling the mounting surface.
- Adjustable with a pitch of 25 mm.
- Material: Zinc-coated steel

Supply:
Four brackets for fixing back-to-back and fixing elements

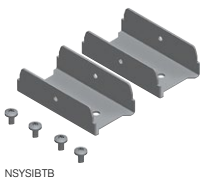
Characteristics	References
Brackets for fixing mounting plates in back-to-back position	**NSYSBTB**

Brackets for Fixing Intermediate Mounting Plates in Back-to-Back Position

SM SFN SMX SFX







- Doubling the mounting surface.
- Adjustable with a pitch of 25 mm.
- Material: Zinc-coated steel

Supply:
2 brackets for fixing intermediate plates back-to-back and fixing elements

Characteristics	References
Brackets for fixing intermediate mounting plates in back-to-back position	**NSYSIBTB**

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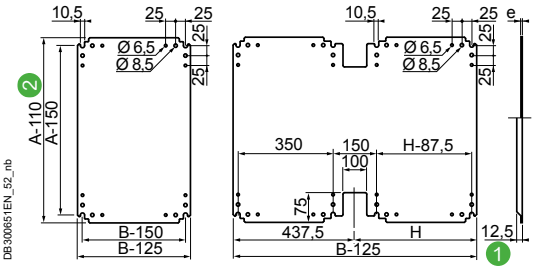
Mounting Accessories

Mounting Plates

Plain Mounting Plate

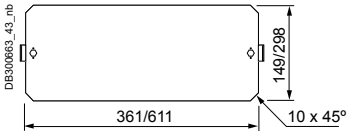
PLA PHD

- Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 512). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).
- In the two door enclosures, it is possible to install one complete mounting plate or two individual mounting plates.
- Material: Galvanized sheet steel
- Thickness: 2.5 mm
- Maximum load: 150 kg/m²
- Supply: One mounting plate




PB500072-20

Characteristics	Heigth (A) (mm)	Width (B) (mm)	Surface (dm²)	References
Plain mounting plate	500	500	14	**NSYPMM55**
Plain mounting plate	500	750	24	**NSYPMM75**
Plain mounting plate	500	1000	32	**NSYPMM510**
Plain mounting plate	500	1250	38	**NSYPMM55** + **NSYPMM75**
Plain mounting plate	750	500	24	**NSYPMM75**
Plain mounting plate	750	750	40	**NSYPMM77**
Plain mounting plate	750	1000	54	**NSYPMM710**
Plain mounting plate	750	1250	70	**NSYPMM712**
Plain mounting plate	1000	500	33	**NSYPMM105**
Plain mounting plate	1000	750	55	**NSYPMM107**
Plain mounting plate	1000	1000	74	**NSYPMM1010**
Plain mounting plate	1000	1250	96	**NSYPMM1012**
Plain mounting plate	1250	500	42	**NSYPMM125**
Plain mounting plate	1250	750	70	**NSYPMM127**
Plain mounting plate	1250	1000	96	**NSYPMM1210**
Plain mounting plate	1250	1250	124	**NSYPMM1212**
Plain mounting plate	1500	500	51	**NSYPMM155**
Plain mounting plate	1500	750	85	**NSYPMM157**
Plain mounting plate	1500	1000	118	**NSYPMM1510**
Plain mounting plate	1500	1250	152	**NSYPMM1512**
Plain mounting plate	2000	750	115	**NSYPMM207**



PLA PHD

- Plate for fixing non-modular devices.
- Depth-adjustable fixing on the supports from 40 to 85 mm..
- Material: Galvanized steel 2 mm thick

Supply:
Order by multiples of 2 (2, 4, 6...)


NSYPMP500DLP

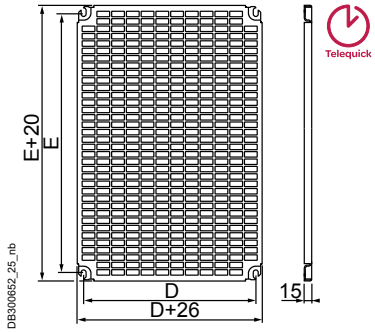
Characteristics	For enclosure - Width (mm)	Height - A (mm)	Thickness (mm)	References
Plain mounting plate	500	149	2	**NSYPMP500DLP**
Plain mounting plate	500	298	2	**NSYPMP5002DLP**
Plain mounting plate	750	149	2	**NSYPMP750DLP**
Plain mounting plate	750	298	2	**NSYPMP7502DLP**

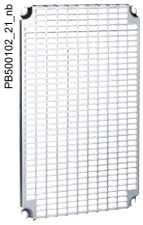
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Perforated Mounting Plate Telequick

PLA

- Grille with 11 x 26 mm drill holes, with a step of 15 x 30 mm, for direct installation, with clip nuts, of all the devices with fixing at 2, 3 or 4 points, by screws with diameters of 3, 4, 5 or 6 mm.
- Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 512).
- The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).
- Material: Galvanized steel
- Maximum load: 150 kg/m²
- Supply: One mounting plate





Characteristics	Heigth (E) (mm)	Width (D) (mm)	Surface (dm²)	References
Telequick mounting plate	350	350	13	**NSYPMR55**
Telequick mounting plate	350	600	23	**NSYPMR57**
Telequick mounting plate	350	2 x 350	26	2 x **NSYPMR55**
Telequick mounting plate	350	350 + 600	36	**NSYPMR55** + **NSYPMR57**
Telequick mounting plate	600	350	23	**NSYPMR75**
Telequick mounting plate	600	600	38	**NSYPMR77**
Telequick mounting plate	600	2 x 350	46	2 x **NSYPMR75**
Telequick mounting plate	600	600	61	**NSYPMR75** + **NSYPMR77**
Telequick mounting plate	850	350	32	**NSYPMR105**
Telequick mounting plate	850	600	54	**NSYPMR107**
Telequick mounting plate	850	2 x 350	64	2 x **NSYPMR105**
Telequick mounting plate	850	350 + 600	86	**NSYPMR105** + **NSYPMR107**
Telequick mounting plate	1100	350	42	**NSYPMR125**
Telequick mounting plate	1100	600	70	**NSYPMR127**
Telequick mounting plate	1100	2 x 350	84	2 x **NSYPMR125**
Telequick mounting plate	1100	350 + 600	112	**NSYPMR125** + **NSYPMR127**
Telequick mounting plate	1350	350	51	**NSYPMR155**
Telequick mounting plate	1350	600	85	**NSYPMR157**
Telequick mounting plate	1350	2 x 350	102	2 x **NSYPMR155**
Telequick mounting plate	1350	350 + 600	136	**NSYPMR155** + **NSYPMR157**
Telequick mounting plate	2 x 850	2 x 600	108	2 x **NSYPMR107**

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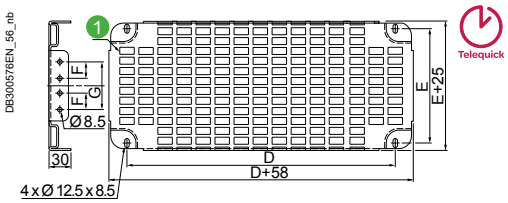
Mounting Accessories

Mounting Plates

Perforated Mounting Plate Telequick

SM | SFN | SMX | SFX | SD

- Allows the installation of switchgear without drilling or screwing.
- Plate designed for quick-fixing of switchgear by means of clip-on nuts ref. **AF1EA3** to **AF1EA6**.
- To ensure vertical continuity, multiple Telequick plates can be installed consecutively in a stacked arrangement.
- The top plate must be fixed in the third hole, 80 mm from the top frame.
- Load: 150 kg/m²
- Material: Zinc-coated steel

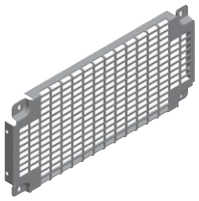


1 Cut-outs 11 x 26 with a pitch of 15 x 30.

Fixing options:
- Directly to the vertical uprights of the structure, by means of self-tapping screws (only PanelSeT SFN)
- To the technical vertical uprights, by means of sliding nuts, see page 491;
- To standard uprights by means of flat nuts, see page 516 or self-tapping screws, and to cross-rails

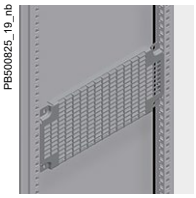
Comment:
Examples of combination see below.

Supply:
One perforated mounting plate and fixing elements for technical uprights and screws for fixing to the structure or cross-rails.

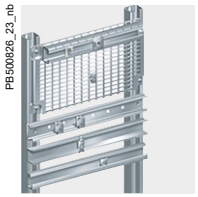

NSYSTMP4560

Characteristics	Width (mm)	Plate height (mm) D	E	F	G	Useful surface (dm²)	References
Perforated mounting plate Telequick	600	450	200	-	100	11.4	**NSYSTMP2260**
Perforated mounting plate Telequick	600	450	425	-	325	22.8	**NSYSTMP4560**
Perforated mounting plate Telequick	600	450	575	125	475	30.4	**NSYSTMP6060**
Perforated mounting plate Telequick	600	450	800	250	700	11.9	**NSYSTMP8260**
Perforated mounting plate Telequick	800	650	200	-	100	15.9	**NSYSTMP2280**
Perforated mounting plate Telequick	800	650	425	-	325	31.8	**NSYSTMP4580**
Perforated mounting plate Telequick	800	650	575	125	475	42.4	**NSYSTMP6080**
Perforated mounting plate Telequick	800	650	800	250	700	58.4	**NSYSTMP8280**
Perforated mounting plate Telequick	1000	850	200	-	100	20.4	**NSYSTMP22100**
Perforated mounting plate Telequick	1000	850	425	-	325	40.8	**NSYSTMP45100**
Perforated mounting plate Telequick	1000	850	575	125	475	54.4	**NSYSTMP60100**
Perforated mounting plate Telequick	1000	850	800	250	700	74.9	**NSYSTMP82100**
Perforated mounting plate Telequick	1200	1050	200	-	100	24.9	**NSYSTMP22120**
Perforated mounting plate Telequick	1200	1050	425	-	325	49.9	**NSYSTMP45120**
Perforated mounting plate Telequick	1200	1050	575	125	475	66.5	**NSYSTMP60120**
Perforated mounting plate Telequick	1200	1050	800	250	700	91.5	**NSYSTMP82120**

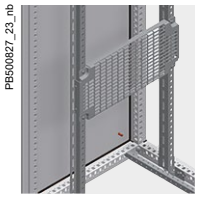
Examples of perforated mounting plate installation



- Perforated plate mounted on structure.



- Perforated plate mounted on technical vertical uprights.



- Perforated plate mounted on standard vertical uprights.



- Perforated plate mounted on cross-rails.

Examples of Mounting Plates Combination

Length of joined PanelSeT SFN enclosures (mm)	Example of PanelSeT SFN enclosure combination width (mm) (B)	Example of combining mounting plates by width (mm)	Useful length (mm)
1200	1200	600 + 800	1192
1400	600 + 800	600 + 1000	1392
1600	2 x 800	800 + 1000	1592
1800	3 x 600	800 + 1200	1792
2000	2 x 1000	1000 + 1200	1992
2200	600 + 2 x 800	1200 + 1200	2192
2400	3 x 800	1600 + 1000	2392
2400	3 x 800	3 x 600 + 1000	2384
2600	2 x 1000 + 600	1600 + 1200	2592
2600	2 x 1000 + 600	3 x 600 + 1200	2584
2800	2 x 1000 + 800	4 x 800	2784
3000	3 x 1000	3 x 800 + 1000	2984
3200	2 x 1000 + 1200	3 x 800 + 1200	3184
3400	3 x 800 + 1000	800 + 3 x 1000	3384
3600	3 x 1200	4 x 1000	3584
3800	800 + 3 x 1000	600 + 3 x 1200	3784
4000	4 x 1000	800 + 3 x 1200	3984

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Partial Mounting Plate

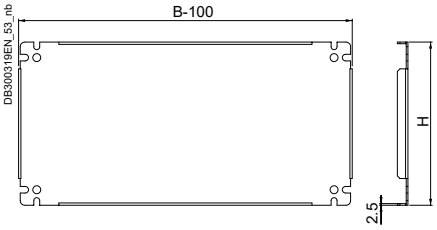
SM | SFN | SMX | SFX | PLA | SD

Telequick

- Partial mounting plate, provided with reinforcement flange on its four sides.
- Load: 250 kg/m²
- Material: Galvanized steel

Fixing options:
PanelSeT SFN and SFX:
- Fixing to the vertical uprights of the structure
- Fixing to the technical or standard vertical uprights, see page 491
- For installations in advanced position, fixing to cross-rails, see page 493

PanelSeT SM:
- Fixing by means of adaptation profiles and 40 mm universal cross-rails (one row) in vertical position, or also on horizontal universal cross-rails
- It can be mounted horizontally, as a tray, by means of depthwise cross-rails, see page 493



Supply:
Partial mounting plate and fixing elements

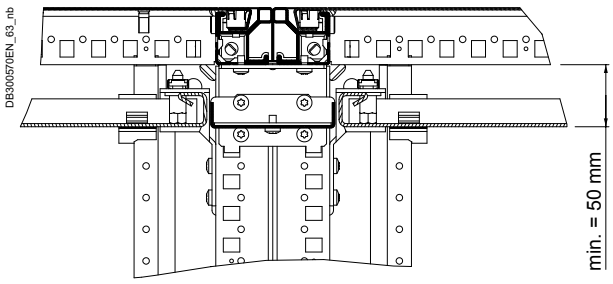

NSYSPMP2560

Characteristics	Width (mm) B	Plate height (mm) H	Plate length (mm) B-100	References
Partial mounting plate	600	247	500	**NSYSPMP2560**
Partial mounting plate	600	397	500	**NSYSPMP4060**
Partial mounting plate	600	597	500	**NSYSPMP6060**
Partial mounting plate	800	247	700	**NSYSPMP2580**
Partial mounting plate	800	397	700	**NSYSPMP4080**
Partial mounting plate	800	597	700	**NSYSPMP6080**
Partial mounting plate	1000	247	900	**NSYSPMP25100**
Partial mounting plate	1000	397	900	**NSYSPMP40100**
Partial mounting plate	1200	247	1100	**NSYSPMP25120**
Partial mounting plate	1200	397	1100	**NSYSPMP40120**
Partial mounting plate	1200	597	1100	**NSYSPMP60120**

Intermediate Mounting Plate

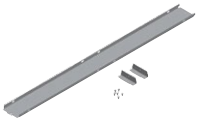
SFN | SFX

- Obtains a continuous surface of the mounting plate at enclosure suites.
- Adjustable depth with a pitch of 25 mm. When the mounting plates are located in the back of the enclosure, the vertical profiles of the structure are flush with the plates, acting as an intermediate mounting plate. In this case the intermediate plate cannot be installed.
- Material: Galvanized steel





Supply:
One intermediate plate and fixing elements


NSYSIMP12

Characteristics	Height (mm)	References
Intermediate mounting plate	1200	**NSYSIMP12**
Intermediate mounting plate	1400	**NSYSIMP14**
Intermediate mounting plate	1600	**NSYSIMP16**
Intermediate mounting plate	1800	**NSYSIMP18**
Intermediate mounting plate	2000	**NSYSIMP20**
Intermediate mounting plate	2200	**NSYSIMP22**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

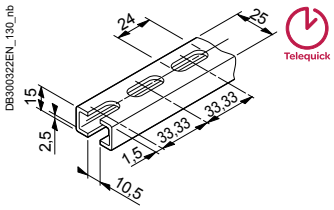
Mounting Accessories

Rails for Wall-Mounted Enclosures

Aluminum Vertical Rails

CRN S3D S3X PLM PLA


NSYMDVR12



- Fixing in the enclosure with M8 nuts, ref. **NSYAMCSF** (set of 4 adapters to be ordered separately).

Characteristics	Height (mm)	Supply (units)	References
Aluminum vertical rail	1200	2	**NSYMDVR12**
Aluminum vertical rail	3000	10	**NSYMDVR3M**

Sliding Nuts

PLS PLM PLA


NSYNM5

- Sliding nuts to be used on aluminum vertical rails.

Supply:
100 Sliding nuts

Characteristics	Type	References
Sliding Nut	M4	**NSYNM4**
Sliding Nut	M5	**NSYNM5**
Sliding Nut	M6	**NSYNM6**

Mounting Rail

CRN S3D



- Accessory designed to optimize the available space in the enclosure.
- It is intended for the installation of switchgear complementing the chassis.
- Mounting possible after installing the mounting plate.
- It is mounted horizontally, with a single screw, on the side panels.
- Door switch mounting option.
- It is possible to vertically fasten **NSYSLCR●●** light cross-rails (description on page 495) and **NSYSQCR●●** quick-fixing cross-rails (description on page 494).
- Material: Galvanized steel
- Maximum load: Static load: 6 kg (sides) and 1,5 kg (top); Dynamic load (transport horizontally): 2 kg according to ASTM D-4169-16
- Installation: In order to ensure the electrical continuity in all cases we recommend using an earthing cable **NSYEL●●●D6** or **NSYEL●●●D8**, see page 589



Supply:
Set of 2 cross-rails


NSYSUCR200WM

Characteristics	Enclosure depth (mm)	References
Mounting rail for wall-mounted enclosure	200	**NSYSUCR200WM**
Mounting rail for wall-mounted enclosure	250	**NSYSUCR250WM**
Mounting rail for wall-mounted enclosure	300	**NSYSUCR300WM**
Mounting rail for wall-mounted enclosure	400	**NSYSUCR400WM**

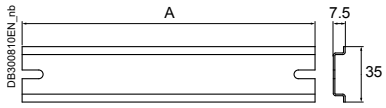
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Mounting Accessories

Rails for Wall-Mounted Enclosures

Symmetrical DIN Rails

SBM SBX

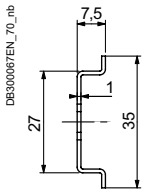


- Material: Galvanized steel
- Installation: Mounting by means of 2 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB**
- All boxes are delivered with 5 x Ø 5 mm self-tapping screws.

Supply:
10 rails, supplied without screws


NSYAMRD15357SB

Characteristics	Height (mm)	Width (mm)	DIN rail lenght A (mm)	References
Symmetrical DIN rail	35	150	135	**NSYAMRD15357SB**
Symmetrical DIN rail	35	200	185	**NSYAMRD20357SB**
Symmetrical DIN rail	35	300	285	**NSYAMRD30357SB**
Symmetrical DIN rail	35	400	385	**NSYAMRD40357SB**
Symmetrical DIN rail	35	500	485	**NSYAMRD50357SB**
Symmetrical DIN rail	35	600	585	**NSYAMRD60357SB**
Symmetrical DIN rail	35	800	785	**NSYAMRD80357SB**



TBS TBP

- Installation: Fixing of the rails with Ø 4 mm self-tapping screws, (not included), Pozidrive and slotted head, ref. **NSYAMFSTB**

Supply:
Supplied without screws


NSYAMRD11357TB

Characteristics	Height (mm)	Depth (mm)	Length (mm)	Box (mm)	References
Symmetric DIN rail	35	7.5	97	105	**NSYAMRD11357TB**
Symmetric DIN rail	35	7.5	140	150	**NSYAMRD16357TB**
Symmetric DIN rail	35	7.5	168	175	**NSYAMRD19357TB**
Symmetric DIN rail	35	7.5	214	225	**NSYAMRD24357TB**
Symmetric DIN rail	35	7.5	264	275	**NSYAMRD29357TB**
Symmetric DIN rail	35	7.5	316	325	**NSYAMRD34357TB**

35-mm Symmetrical DIN Rails

PLM

They are fixed to the rear of the enclosure without uprights, with a pitch of 25 mm for the notches on the rear of the enclosure using direct-fixing nuts ref. **NSYTCSPLM** or **NSYTCSM6PLM**.

- Material: Galvanized steel

Supply:
References by unit. Order by multiples of 2 units (2, 4, 6, etc.)


NSYCS200PLM

Characteristics	For wall-mounted enclosure width (mm)	Rail length (mm)	References
35 mm symmetrical DIN rails	215	180	**NSYCS200PLM**
35 mm symmetrical DIN rails	330	280	**NSYCS300PLM**
35 mm symmetrical DIN rails	430 / 436	380	**NSYCS400PLM**
35 mm symmetrical DIN rails	536	480	**NSYCS500PLM**
35 mm symmetrical DIN rails	636	580	**NSYCS600PLM**
35 mm symmetrical DIN rails	852	795	**NSYCS800PLM**

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Mounting Accessories

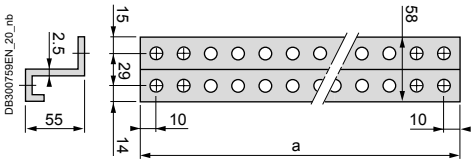
Uprights for Wall-Mounted Enclosures

20/10e mm Zinc-Coated Pre-Drilled Uprights

S3D S3X PLM



DZ6MZ211



Telequick

- Ø 11 mm holes enable to adjust the rows of equipment by 20 mm steps.

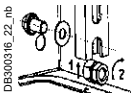
Characteristics	Height (mm)	Weight (g)	References
20/10e mm zinc-coated pre-drilled uprights	1920	4000	**DZ6MZ211**

Brass Nuts to Fix the Upright to the Enclosures

CRN S3D PLM PLA S3CM



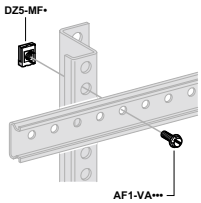
NSYAMCSF



Supply:
Four Brass nuts

Characteristics	References
Brass nuts for screws M8 to fix the upright to the enclosures	**NSYAMCSF**

Notched Clamp Nuts for Uprights



DZ5MF6

Supply:
100 units. References per unit.
To be ordered in multiples of 100 (100, 200, 300, etc).

- Specially designed for pre-drilled uprights.

Characteristics	Type	Weight (g)	References
Notched clamp nuts	M6	7.0	**DZ5MF6**
Notched clamp nuts	M8	8.0	**DZ5MF8**

6

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Mounting Accessories

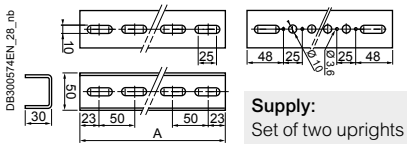
Uprights for Floor-Standing Enclosures

Standard Uprights

SM SFN SMX SFX

Telequick

- Vertical uprights for fixing plates and rails.
- They can be fixed on the mounting plate fixing brackets or on the upright fixing bracket, ref. **NSYMFB**.
- Adjustable height with a pitch of 25 or 50 mm.
- Material: Galvanized steel
- Thickness: 20/10[e] mm



Supply:
Set of two uprights


NSYVR18

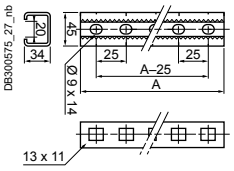
Characteristics	Height (mm)	A (mm)	References
Standard uprights	1800	1696	**NSYVR18**
Standard uprights	2000	1896	**NSYVR20**
Standard uprights	2200	2096	**NSYVR22**

Technical Uprights

SM SFN SMX SFX PLA SD

Telequick

- Vertical uprights for fixing plates and rails.
- They can be fixed to the fixing brackets of the mounting plate or to the uprightfixing bracket (ref. **NSYMFB**).
- Adjustable height in steps of 2.5 mm (with quarter-turn nuts, ref. **NSYSNM6** or **NSYSNM8**) or 25 mm (with cage nuts, ref. **NSYCNM6** or **NSYCNM8**).
- Material: Galvanized steel
- Thickness: 20/10[e] mm



Comment:
NSYTVR20 is not compatible with PLA or PHD 2000 mm high enclosures. Use 2 x **NSYTVR10**.

Supply:
Set of two uprights


NSYTVR7

Characteristics	Height (mm)	A (mm)	References
Technical uprights	750	625	**NSYTVR7**
Technical uprights * Control desk	1000*	675	**NSYTVR8**
Technical uprights	1000	875	**NSYTVR10**
Technical uprights	1200	1075	**NSYTVR12**
Technical uprights	1250	1125	**NSYTVR125**
Technical uprights	1400	1275	**NSYTVR14**
Technical uprights	1500	1375	**NSYTVR15**
Technical uprights	1600	1475	**NSYTVR16**
Technical uprights	1800	1675	**NSYTVR18**
Technical uprights	2000	1875	**NSYTVR20**
Technical uprights	2200	2075	**NSYTVR22**

Screws for Uprights

SM SFN SMX SFX SD


AF1VA612

Characteristics	Supply (units)	References
M6 x 12 screw	100	**AF1VA612**
M6 x 18 screw	100	**AF1VA618**
M8 x 20 screw	100	**AF1VC820**

Bracket for Fixing Uprights

- Brackets for fixing the uprights, standard or technical, at the same level as the structure, obtaining a greater working surface inside the enclosure.
- They allow two pairs of uprights to be fixed back-to-back, doubling the working surface.
- The brackets are fixed to the structure by means of M6 self-tapping screws.
- Adjustable depth with a pitch of 25 mm.
- Material: Zinc-coated steel.

Supply:
Four brackets for fixing uprights and fixing elements.


NSYMFB

Characteristics	References
Bracket for fixing uprights	**NSYMFB**

6

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Mounting Accessories

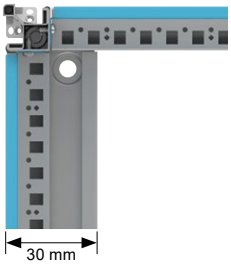
Rails and Profiles for Floor-Standing Enclosures

SM SFN SFX

Telequick

It is possible to create a fixing at any point of the inner volume, providing mounting planes with different widths, heights and depths. In the case of the Panel**SeT** SM, it may be necessary to install vertical/horizontal adaptation profiles and 40-mm universal cross-rails (one row).

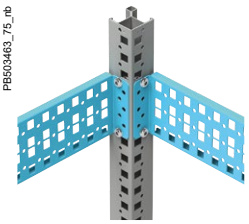
PB503915



Four types of cross-rails are available to create fixing points:
- Universal cross-rails (see page 493)
- Quick-fixing cross-rails (see page 494)
- Integrated cross-rails (see page 495)
- Light cross-rails (see page 495)

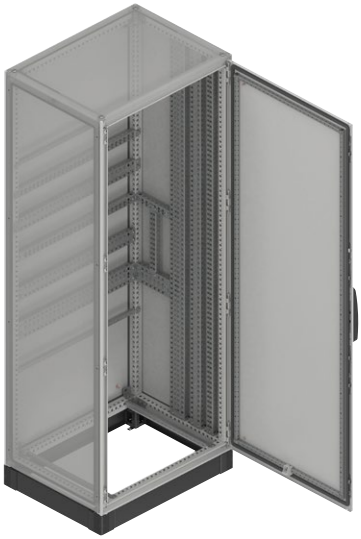
Universal, quick-fixing and integrated cross-rails are available in 3 sizes:
- 40 mm (1 row)
- 65 mm (2 rows)
- 90 mm (3 rows)

PB503463_75_nb

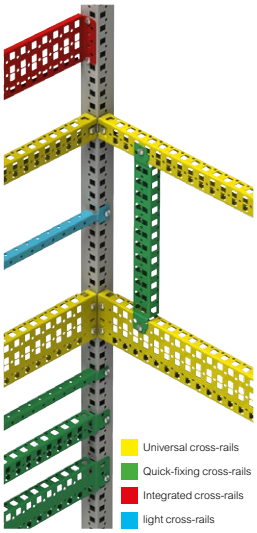


Cross-rails for specific applications are also available:
- Cross-rails for heavy loads (see page 496) to be fixed on the bottom part of the enclosure or to be combined with a "heavy load kit" (see page 496) to be used at any height in the enclosure

PB503916

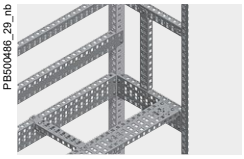


PB503465_83_nb



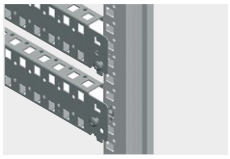
Combination Examples

PB500486_29_nb



PanelSeT SFN and SFX:
The cross-rails can be fixed to the structure and among each other, offering multiple options.

PB500838_26_nb

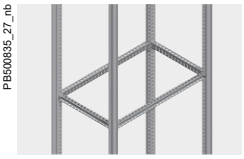


The quick-fixing cross-rails can be fixed directly to the structure, quickly and easily.
PanelSeT SFN and SFX*:
- They clip onto the structure and are fixed by M6 self-tapping screws, or optionally with M6 caged nuts.

PanelSeT SM:
- Option of clipping onto the adaptation profile or another cross-rail.
- Fixing by means of M6 self-tapping screws.
- Fixing by means of M6 caged nuts.

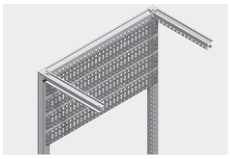
* In PanelSeT SFX enclosures, it cannot be mounted depthwise.

PB500835_27_nb



Universal cross-rails and integrated cross-rails can be simultaneously mounted at the same height, on all the sides of the enclosure.
To perform this type of installation in a PanelSeT SM enclosure, the vertical adaptation profile and the vertical 40 mm universal cross-rail (one row) are required, mounted in the back of the enclosure.

PB500839_30_nb



Quick-fixing cross-rails can be used to support equipments at the back of the enclosure or be fixed every 25 mm on two cross-rails (universal or integrated) in vertical position.

PB500841_24_nb



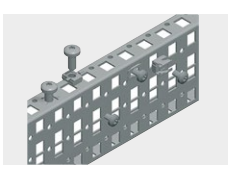
40 mm wide universal and integrated cross-rails can be used as uprights, adjustable every 25 mm in depth. They enable the fixing of diverse equipment supports and are adjustable every 25 mm in height.

PB500837_27_nb



PanelSeT SFN:
Universal cross-rails and integrated cross-rails can be mounted in vertical position.

PB500842_30_nb



The main fixing point to the quick-fixing cross-rails is the 5.2 mm drill hole for M6 self-tapping screw, although they can also receive M6 and M8 caged nuts.

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Mounting Accessories

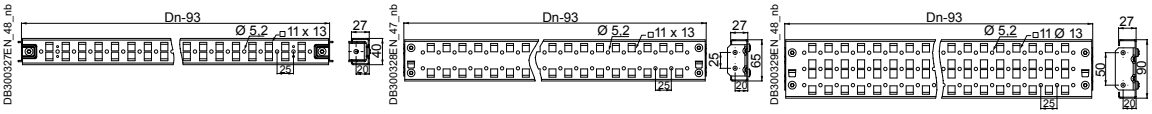
Rails and Profiles for Floor-Standing Enclosures

Universal Cross-Rails

SM | SFN | SMX | SFX | SFN PC

Telequick

40 mm (1 Row) | 65 mm (2 Rows) | 90 mm (3 Rows)



- Used for the creation of structures inside the enclosure.
- Cross-rails available in three sizes:
  40 mm (one row), 65 mm (two rows) and 90 mm (three rows).
- Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref **NSYST30M6S**.
- Equipment is fixed by means of caged nuts or self-tapping screws.
- Material: Galvanized steel
- Thickness: 15/10^{e} mm

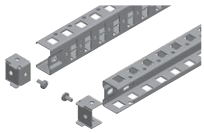
Fixing to the structure:
Fixing accordingly to uprights axis.
Option to mount cross-rails simultaneously on all sides, at the same height of the enclosure.

Fixing to the plinths:
They are fixed across the width and/or depth between the corners of the plinth.
The plinth cross-rail supports are required for its assembly.

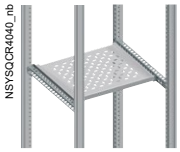
Fixing to the trays:
Allow the installation of fixed trays and telescopic rails.

Comment:
(1) For vertical assembly only.
(2) Cross-rails only for fixing cables.
(3) These cross-rails have not been sized to be used in the width, depth or height of the enclosure, but to be mounted in other positions or in between cross-rails.

Supply:
Two cross-rails, four supports for cross-rails and fixing elements


NSYSUCR4030

Tray fixing


NSYSQCR4040_nb


NSYSUCR4040_nb

Plinth fixing


NSYSUCR4030

Characteristics	Fixing possibility	Width of the cross-rails (mm)	H / W / D (Dn) of enclosure (mm)	Maximum load by rail (kg)	References
Universal cross-rails	Structure and plinths	40 (1 row)	300	70	**NSYSUCR4030**
Universal cross-rails	Structure, plinths and tray	40 (1 row)	400	60	**NSYSUCR4040**
Universal cross-rails	Structure, plinths and tray	40 (1 row)	500	60	**NSYSUCR4050**
Universal cross-rails	Structure and tray	40 (1 row)	600	50	**NSYSUCR4060**
Universal cross-rails	Structure and plinth	40 (1 row)	700 (3)	50	**NSYSUCR4070**
Universal cross-rails	Structure and tray	40 (1 row)	800	40	**NSYSUCR4080**
Universal cross-rails	Structure and plinth	40 (1 row)	900 (3)	40	**NSYSUCR4090**
Universal cross-rails	Structure	40 (1 row)	1000	30	**NSYSUCR40100**
Universal cross-rails	Structure and plinth	40 (1 row)	1100 (3)	30	**NSYSUCR40110**
Universal cross-rails	Structure	40 (1 row)	1200	20	**NSYSUCR40120**
Universal cross-rails	Structure	40 (1 row)	1400	(1)	**NSYSUCR40140**
Universal cross-rails	Structure	40 (1 row)	1600	(1)	**NSYSUCR40160**
Universal cross-rails	Structure	40 (1 row)	1800	(1)	**NSYSUCR40180**
Universal cross-rails	Structure	40 (1 row)	2000	(1)	**NSYSUCR40200**
Universal cross-rails	Structure	40 (1 row)	2200	(1)	**NSYSUCR40220**
Universal cross-rails	Structure	65 (2 rows)	300	110	**NSYSUCR6530**
Universal cross-rails	Structure	65 (2 rows)	400	100	**NSYSUCR6540**
Universal cross-rails	Structure	65 (2 rows)	500	90	**NSYSUCR6550**
Universal cross-rails	Structure	65 (2 rows)	600	80	**NSYSUCR6560**
Universal cross-rails	Structure	65 (2 rows)	800	70	**NSYSUCR6580**
Universal cross-rails	Structure	65 (2 rows)	1000	50	**NSYSUCR65100**
Universal cross-rails	Structure	65 (2 rows)	1200	50	**NSYSUCR65120**
Universal cross-rails	Structure	65 (2 rows)	1400	(1)	**NSYSUCR65140**
Universal cross-rails	Structure	65 (2 rows)	1600	(1)	**NSYSUCR65160**
Universal cross-rails	Structure	65 (2 rows)	1800	(1)	**NSYSUCR65180**
Universal cross-rails	Structure	65 (2 rows)	2000	(1)	**NSYSUCR65200**
Universal cross-rails	Structure and plinth	90 (3 rows)	300	130	**NSYSUCR9030**
Universal cross-rails	Structure and plinth	90 (3 rows)	400	120	**NSYSUCR9040**
Universal cross-rails	Structure and plinth	90 (3 rows)	500	120	**NSYSUCR9050**
Universal cross-rails	Structure	90 (3 rows)	600	110	**NSYSUCR9060**
Universal cross-rails	Structure and plinth	90 (3 rows)	700 (3)	110	**NSYSUCR9070**
Universal cross-rails	Structure	90 (3 rows)	800	100	**NSYSUCR9080**
Universal cross-rails	Structure	90 (3 rows)	1000	70	**NSYSUCR90100**
Universal cross-rails	Structure	90 (3 rows)	1200	70	**NSYSUCR90120**
Universal cross-rails	Structure	90 (3 rows)	1400	(1)	**NSYSUCR90140**
Universal cross-rails	Structure	90 (3 rows)	1600	(1)	**NSYSUCR90160**
Universal cross-rails	Structure	90 (3 rows)	1800	(1)	**NSYSUCR90180**
Universal cross-rails	Structure	90 (3 rows)	2000	(1)	**NSYSUCR90200**
Universal cross-rails	Structure	90 (3 rows)	2200	(1)	**NSYSUCR90220**

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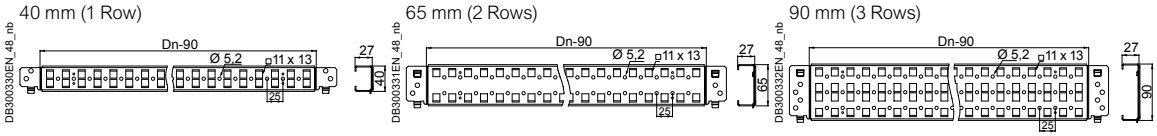
Mounting Accessories

Rails and Profiles for Floor-Standing Enclosures

Quick-Fixing Cross-Rails

SM SFN SMX SFX

Telequick



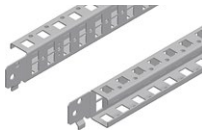
- Used for the creation of structures inside the enclosure.
- Cross-rails available in three sizes:
  40 mm (one row), 65 mm (two rows) and 90 mm (three rows).
- Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref **NSYST30M6S**.
- Equipment are fixed by means of caged nuts or self-tapping screws.
- Material: Galvanized steel
- Thickness: 15/10[e] mm

Fixing to the structure:
Fixing accordingly to uprights axis.
It is not possible to mount two cross-rails on one level with an upright.

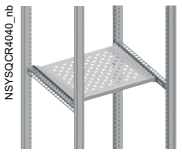
Fixing to the trays:
Allow the installation of fixed trays and telescopic rails.

Comment:
(1) For vertical assembly only.
(2) Cross-rails only for fixing cables.
(3) These cross-rails have not been sized to be used in the width, depth or height of the enclosure, but to be mounted in other positions or in between cross-rails.

Supply:
Two cross-rails and fixing elements


NSYSQCR4040

Tray fixing


NSYSQCR4040_nb


NSYSUCR4040_nb

Characteristics	Fixing possibility	Width of the cross-rails (mm)	H / W / D (Dn) of enclosure (mm)	Maximum load by rail (kg)	References
Quick-fixing cross-rails	Structure and tray	40 (1 row)	400	60	**NSYSQCR4040**
Quick-fixing cross-rails	Structure and tray	40 (1 row)	500	60	**NSYSQCR4050**
Quick-fixing cross-rails	Structure and tray	40 (1 row)	600	50	**NSYSQCR4060**
Quick-fixing cross-rails	Structure and tray	40 (1 row)	800	40	**NSYSQCR4080**
Quick-fixing cross-rails	Structure	40 (1 row)	1000	30	**NSYSQCR40100**
Quick-fixing cross-rails	Structure	40 (1 row)	1200	20	**NSYSQCR40120**
Quick-fixing cross-rails	Structure	65 (2 rows)	400	100	**NSYSQCR6540**
Quick-fixing cross-rails	Structure	65 (2 rows)	500	90	**NSYSQCR6550**
Quick-fixing cross-rails	Structure	65 (2 rows)	600	80	**NSYSQCR6560**
Quick-fixing cross-rails	Structure	65 (2 rows)	800	70	**NSYSQCR6580**
Quick-fixing cross-rails	Structure	65 (2 rows)	1000	50	**NSYSQCR65100**
Quick-fixing cross-rails	Structure	65 (2 rows)	1200	50	**NSYSQCR65120**
Quick-fixing cross-rails	Structure	90 (3 rows)	400	120	**NSYSQCR9040**
Quick-fixing cross-rails	Structure	90 (3 rows)	500	120	**NSYSQCR9050**
Quick-fixing cross-rails	Structure	90 (3 rows)	600	110	**NSYSQCR9060**
Quick-fixing cross-rails	Structure	90 (3 rows)	800	100	**NSYSQCR9080**
Quick-fixing cross-rails	Structure	90 (3 rows)	1000	70	**NSYSQCR90100**
Quick-fixing cross-rails	Structure	90 (3 rows)	1200	70	**NSYSQCR90120**
Set of 2 quick cross-rails	Structure	120 (4 rows)	400	120	**NSYSQCR12040**
Set of 2 quick cross-rails	Structure	120 (4 rows)	500	120	**NSYSQCR12050**
Set of 2 quick cross-rails	Structure	120 (4 rows)	600	110	**NSYSQCR12060**
Set of 2 quick cross-rails	Structure	120 (4 rows)	800	100	**NSYSQCR12080**

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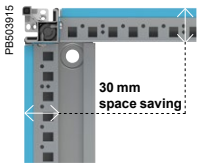
Mounting Accessories

Rails and Profiles for Floor-Standing Enclosures

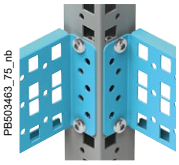
Integrated Cross-Rails

SM SFN

- Used for the creation of structures inside the enclosure.
- Cross-rails available in three sizes:
  40 mm (one row), 65 mm (two rows) and 90 mm (three rows).
- Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref **NSYST30M6S**.
- Equipment are fixed by means of caged nuts or self-tapping screws
- Material: Galvanized steel
- Thickness: 15/10e mm



30 mm space saving thanks to new fixation mode



Quick mounting, at same level, on all enclosure perimeter

Fixing to the structure:
Fixing is shifted by 30 mm relatively to uprights axis.
Option to mount cross-rails simultaneously on all sides, at the same height of the enclosure.

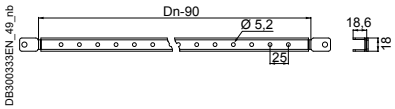
Supply:
Two cross-rails and fixing elements

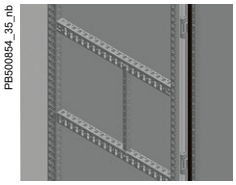

NSYSICR4040

Characteristics	Width of the cross-rails (mm)	H / W / D (Dn) of enclosure (mm)	Maximum load by rail (kg)	References
Integrated cross-rails	40 (1 row)	400	60	**NSYSICR4040**
Integrated cross-rails	40 (1 row)	500	60	**NSYSICR4050**
Integrated cross-rails	40 (1 row)	600	50	**NSYSICR4060**
Integrated cross-rails	40 (1 row)	800	40	**NSYSICR4080**
Integrated cross-rails	65 (2 rows)	600	80	**NSYSICR6560**
Integrated cross-rails	65 (2 rows)	800	70	**NSYSICR6580**
Integrated cross-rails	65 (2 rows)	1000	50	**NSYSICR65100**
Integrated cross-rails	90 (3 rows)	400	120	**NSYSICR9040**
Integrated cross-rails	90 (3 rows)	600	110	**NSYSICR9060**
Integrated cross-rails	90 (3 rows)	800	100	**NSYSICR9080**
Integrated cross-rails	90 (3 rows)	1000	70	**NSYSICR90100**

Light Cross-Rails

SM SFN SFX





- **PanelSeT SFN and SFX:** Direct fixing to the structure or between cross-rails.
- **PanelSeT SM:** Fixing by means of adaptation profiles and 40 mm universal cross-rails (one row), or between cross-rails in any other position.
- Adjustable with a pitch of 25 mm.
- The light cross-rails are equipped with a row of drill holes with a diameter of 5.2 mm and a pitch of 25 mm, which allows fixing with an M6 self-tapping screw, ref. **NSYST30M6S**.
- Material: Galvanized steel

Supply:
Two light cross-rails and fixing elements



Characteristics	Width/Depth (mm)	References
Light cross-rails	400	**NSYSLCR40**
Light cross-rails	500	**NSYSLCR50**
Light cross-rails	600	**NSYSLCR60**
Light cross-rails	800	**NSYSLCR80**

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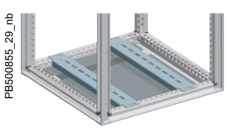
Mounting Accessories

Rails and Profiles for Floor-Standing Enclosures

Rails for Heavy Loads

SFN | SFN 6G

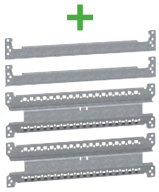
- Mounted with a cable gland plate (directly fixed on the bottom frame of the enclosure) or with a previously mounted mounting plate. Furthermore, they can be fixed anywhere in the enclosure with a heavy load kit.
- Laterally adjustable with a pitch of 25 mm.
- Elongated holes for adjusting the center-to-center distance of the switchgear.
- The nominal width of cross-rails must be 100 mm shorter than the associated heavy load kit width.
- Thickness is 30/10e mm.
- Material used is galvanized steel.


PB500855_29_nb


PB503536_68_nb


NSYHLCR40

+


NSYSHLT6040

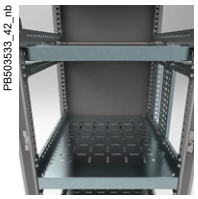
Supply:
Two rails for heavy loads and fixing elements

Characteristics	Associated heavy load kit references	Maximum load (kg)	Nominal width (mm)	References
Rail for heavy loads	Not usable with heavy load kit	575	400	**NSYHLCR40**
Rail for heavy loads	NSYSHLT6040 NSYSHLT6060 NSYSHLT6080	525	500	**NSYHLCR50**
Rail for heavy loads	Not usable with heavy load kit	500	600	**NSYHLCR60**
Rail for heavy loads	Not usable with heavy load kit	475	800	**NSYHLCR80**

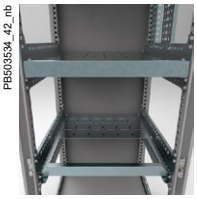
Heavy Load Supports


PB503918

Combination Examples


PB503533_42_nb

- Heavy Load Kit + Ventilated Shelf


PB503534_42_nb

- Heavy Load Kit + Partially Ventilated Shelf


PB503535_42_nb

- Heavy Load Kit + Plain Shelf For Battery


PB503536_68_nb

- Heavy Load Kit + Heavy Load Cross-Rails

6

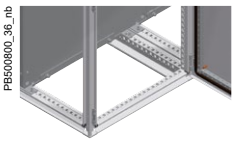
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Mounting Accessories

Rails and Profiles for Floor-Standing Enclosures

Side Entry Rails for the Mounting Plate

SFN SFX



- Side entry device for the mounting plates when coupling PanelSeT SFN enclosures or SFX.
- The mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure.
- Material: Zinc-coated steel

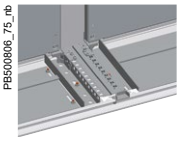
Supply:
Two rails (top and bottom) and fixing elements

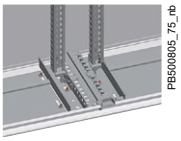

NSYSMPSE6

Characteristics	Width (mm)	References
Side entry rails for the mounting plate	600	**NSYSMPSE6**
Side entry rails for the mounting plate	800	**NSYSMPSE8**
Side entry rails for the mounting plate	1000	**NSYSMPSE10**
Side entry rails for the mounting plate	1200	**NSYSMPSE12**

Top/Bottom Adjustment Rails

SM





- Allows the installation of two mounting plates or vertical uprights in enclosures with a width of 1200 mm and 1600 mm, as if in two independent enclosures.
- A set of mounting plate fixing brackets ref. **NSYSMPB** is required.
- Optional installation of an intermediate mounting plate.
- Material: Galvanized steel

Supply:
Two rails, top and bottom


NSYSTBR3

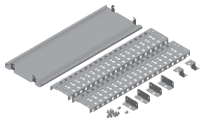
Characteristics	Depth (mm)	References
Top/bottom adjustment rails	300	**NSYSTBR3**
Top/bottom adjustment rails	400	**NSYSTBR4**
Top/bottom adjustment rails	500	**NSYSTBR5**
Top/bottom adjustment rails	600	**NSYSTBR6**

Kit for Adapting Two-Door Enclosures

SFN

- Allows the installation of two mounting plates as if in two independent enclosures.
- A set of brackets for fixing mounting plates ref. **NSYSMPB** is required.
- Option of installing an intermediate mounting plate.
- Valid for enclosures with widths of 1200 and 1600 mm.
- If installing a cable gland plate for a width of 1200 mm, it is necessary to install two with a width of 600 mm, and for widths of 1600 mm, two with a width of 800 mm.




NSYSMP2D4

Characteristics	Depth (mm)	References
Kit for adapting two-door enclosures	400	**NSYSMP2D4**
Kit for adapting two-door enclosures	500	**NSYSMP2D5**
Kit for adapting two-door enclosures	600	**NSYSMP2D6**
Kit for adapting two-door enclosures	800	**NSYSMP2D8**

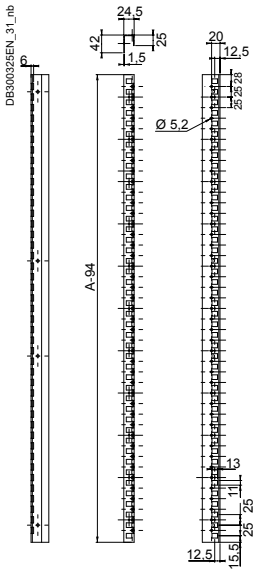
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Mounting Accessories

Rails and Profiles for Floor-Standing Enclosures

Vertical Adaptation Profiles

SM



- The vertical adaptation profiles provide fixing points at the entrance to the enclosure.
- Fixing on the screws of the hinge and catches of the lock.
- Allows the depthwise fixing of cross-rails, etc.
- Thickness: 15/10e mm
- Material: Galvanized steel



Supply:
Two vertical adaptation profiles and fixing screws

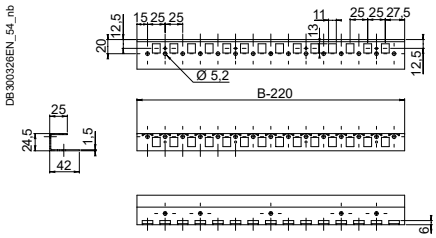


NSYSMVR12

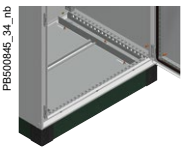
Characteristics	Height (mm)	References
Vertical adaptation profiles	1200	**NSYSMVR12**
Vertical adaptation profiles	1400	**NSYSMVR14**
Vertical adaptation profiles	1600	**NSYSMVR16**
Vertical adaptation profiles	1800	**NSYSMVR18**
Vertical adaptation profiles	2000	**NSYSMVR20**

Horizontal Adaptation Profiles

SM



- The horizontal adaptation profiles provide fixing points at the entrance to the enclosure.
- Thickness: 15/10e mm
- Material: Galvanized steel



Supply:
Two horizontal adaptation profiles and fixing screws



NSYSMHR6

Characteristics	Width (mm)	References
Horizontal adaptation profiles	600	**NSYSMHR6**
Horizontal adaptation profiles	800	**NSYSMHR8**
Horizontal adaptation profiles	1000	**NSYSMHR10**
Horizontal adaptation profiles	1200	**NSYSMHR12**
Horizontal adaptation profiles	1600	**NSYSMHR16**

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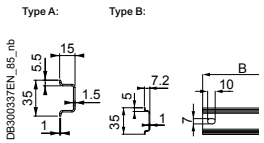
Mounting Accessories

Rails for All Enclosure Types

Symmetric Mounting Rail

CRN | S3D | SM | SFN | SMX | SFX | PLM | SD

- 2 types: Type A: 35 x 15 mm, Type B: 35 x 7.5 mm
- Material: Zinc-coated steel
- Standards: DIN 715
- Thickness: Type A: 15/10^{e} mm, Type B: 10/10^{e} mm
- Fixing: Fixed to mounting plates or another fixing elements, uprights not included in the supply



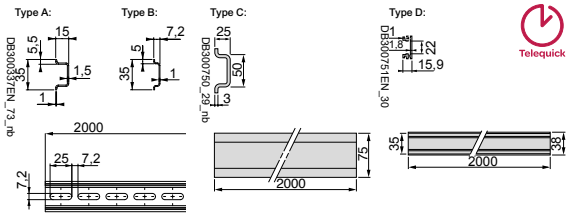
Supply:
10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units(10, 20, etc.)


NSYSDR30B

Characteristics	Type	Enclosure width (mm)	Rail length (mm)	References
Symmetric mounting rail	B	300	250	**NSYSDR30B**
Symmetric mounting rail	B	400	350	**NSYSDR40B**
Symmetric mounting rail	A	500	450	**NSYSDR50A**
Symmetric mounting rail	A	600	550	**NSYSDR60A**
Symmetric mounting rail	A	800	750	**NSYSDR80A**
Symmetric mounting rail	A	1000	950	**NSYSDR100A**

Symmetric Rails

- Material: Galvanized steel, zinc-coated steel or aluminum
- Length: 2000 mm

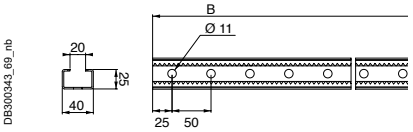



NSYSDR200D

Characteristics	Type	Order by Multiples	Perforations	References
Symmetric rail, Galvanized steel	A	10	Perforated	**NSYSDR200D**
Symmetric rail, Galvanized steel	B	10	Perforated	**NSYSDR200BD**
Symmetric rail, Galvanized steel	A	10	Not perforated	**NSYSDR200**
Symmetric rail, Galvanized steel	B	10	Not perforated	**NSYSDR200B**
Symmetric rail, Zinc-coated steel	C	6	Not perforated	**AM1DL201**
Symmetric rail, Aluminum	D	10	Not perforated	**AM1EA200**

Serrated C-Shaped Rail for Heavy Loads

- Marked in steps of 25 mm to facilitate switchgear positioning.
- Material: Zinc-coated steel
- Thickness: 20/10^{e} mm



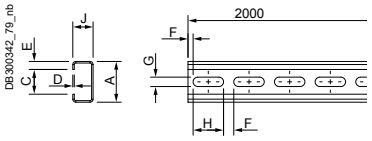
Supply:
Two rails with a length of 2 m


AM1EC200

Characteristics	Rail length (mm)	References
Serrated C-shaped rail for heavy loads	2000	**AM1EC200**

Symmetric C-Shaped Rails

- Rails for supporting and fixing switchgear on panels and enclosures, formation of chassis, racks and panel reinforcements.
- Material: Galvanized steel
- Fixing: They are fixed to the structure and to one another by means of fixing elements



Supply:
References by unit. Order by multiples of 10 units(10, 20, etc.)


NSYCN20

Characteristics	Dimensions (mm)								Rail length (mm)	References
	A	J	C	D	E	F	G	H		
Symmetric C-shaped rails 21x11x10, not perforated	21	11	10	1.5	5.5	-	-	-	2000	**NSYCN20**
Symmetric C-shaped rails 21x11x10, perforated	21	11	10	1.5	5.5	5	6.2	15	2000	**NSYCNT20**
Symmetric C-shaped rails 40x20x24, not perforated	40	20	24	1.5	8	-	-	-	2000	**NSYCN40**
Symmetric C-shaped rails 40X20X24, perforated	40	20	24	1.5	8	10	8.5	30	2000	**NSYCNT40**

Combiplas Nut for Symmetric C-Shaped Rails

SM | SFN | SFX | SD


NSYBN206

Characteristics	Rail type	Nuts type	Supply	References
Combiplas nut for symmetric C-shaped rails	C20	M4	100	**NSYBN204**
Combiplas nut for symmetric C-shaped rails	C20	M6	100	**NSYBN206**
Combiplas nut for symmetric C-shaped rails	C40	M4	50	**NSYBN404**
Combiplas nut for symmetric C-shaped rails	C40	M6	50	**NSYBN406**
Combiplas nut for symmetric C-shaped rails	C40	M8	50	**NSYBN408**
Combiplas nut for symmetric C-shaped rails	C60	M6	20	**NSYBN606**

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Mounting Accessories

Rails for All Enclosure Types

Metal Sliding Nut for Symmetric C-Shaped Rails

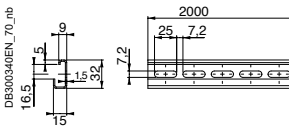
SM SFN SFX


NSYB406

Characteristics	Rail type	Nuts type	Supply	References
Metal sliding nut for symmetric C-shaped rails	C40	M6	-	**NSYB406**

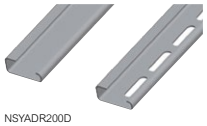
Asymmetric DIN Rails

Telequick



Supply:
10 rails with a length of 2 m.
References by unit. Order by multiples of 10 units (10, 20, etc.)

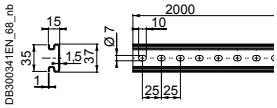
- Material: Galvanized steel
- Length: 2000 mm


NSYADR200D

Characteristics	Perforations	References
Asymmetric DIN rail	Perforated	**NSYADR200D**
Asymmetric DIN rail	Not perforated	**NSYADR200**

Double-Profile DIN Rails

Telequick



Supply:
10 rails with a length of 2 m.
References by unit. Order by multiples of 10 units (10, 20, etc.)
ref. **NSYDPR200T** multiples 20

- Material: Galvanized steel
- Length: 2000 mm


NSYDPR200D

Characteristics	Thickness (mm)	Perforations	Order by Multiples	References
Double-profile DIN rail	15/10[e]	Perforated	10	**NSYDPR200D**
Double-profile DIN rail	10/10[e]	Perforated	20	**NSYDPR200T**
Double-profile DIN rail	15/10[e]	Not perforated	10	**NSYDPR200**

6

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Mounting Accessories

Accessories for Rails

Screws for Rails

TBS TBP

- Ø 4 x 10 mm

Supply:
Pack of 100 screws



NSYAMFSTB

Characteristics	References
Screws Ø4 mm, height 10 mm	**NSYAMFSTB**

Plastic Nuts for Rail Fixing

PLM

They slide directly into the notches, with a pitch of 25 mm, which are located on the rear of the enclosures, except enclosure ref. **NSYPLM3025G/TG**. They allow direct fixing of symmetrical DIN rails by self-tapping screws. Option of raising the rails with an M6 spacer using a plastic nut containing an M6 nut.

Supply:
References by unit. Order by multiples of 20 units (20, 40, 60, etc.)



NSYTCSPLM

Characteristics	References
Plastic nut with self- tapping screw	**NSYTCSPLM**
Plastic nut containing an M6 metal nut	**NSYTCSM6PLM**

Nuts for Symmetric Rails

Telequick



PB500863_25_nb



AF1GC4

- Clip-on nut.

Supply:
100 nuts

Characteristics	Type	References
Nuts for symmetric rails	M4	**AF1GC4**
Nuts for symmetric rails	M5	**AF1GC5**
Nuts for symmetric rails	M6	**AF1GC6**

Nuts for Asymmetric DIN Rails, 2000 mm Version

Telequick



PB500866_24_nb



DZ5ME5

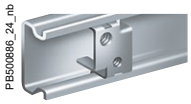
- Quarter-turn sliding nut.

Supply:
100 nuts

Characteristics	Type	References
Nuts for asymmetric DIN rails, 2000 mm version	M4	**DZ5ME5**
Nuts for asymmetric DIN rails, 2000 mm version	M5	**DZ5ME8**
Nuts for asymmetric DIN rails, 2000 mm version	M6	**DZ5ME9**

Nuts for Double-Profile DIN Rails

Telequick



PB500886_24_nb



AF1CF34

- Quarter-turn sliding nut.

Supply:
100 nuts

Characteristics	Type	References
Nuts for double-profile DIN rails	M3 + M4	**AF1CF34**
Nuts for double-profile DIN rails	M5 + M6	**AF1CF56**

6

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Mounting Accessories

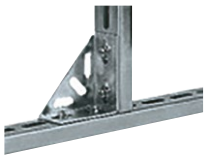
Accessories for Rails

Connectors for Symmetric C-Shaped Rails

- The connectors enable the formation of chassis or frames and structures for fixing switchgear, in any position inside the enclosures, allowing the fixing of DIN rails or other elements.
- See symmetric C-shaped rails.

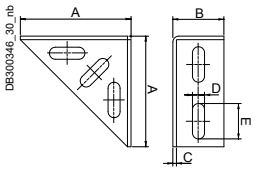
EVA Connectors

CRN S3D



NSYEVA20

- To join two symmetric C-shaped rails, C20 and C40 types, forming an overlapping assembly with plane change, or also at right angles for the formation of spacers or supports at a different level.
- Material: Zinc-coated steel



Supply:
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Characteristics	Dimensions (mm)					References
	A	B	C	D	E	
EVA connectors	43	19	2	6.2	15	**NSYEVA20**

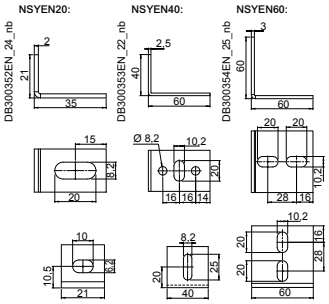
EN Connectors

CRN S3D



NSYEN20

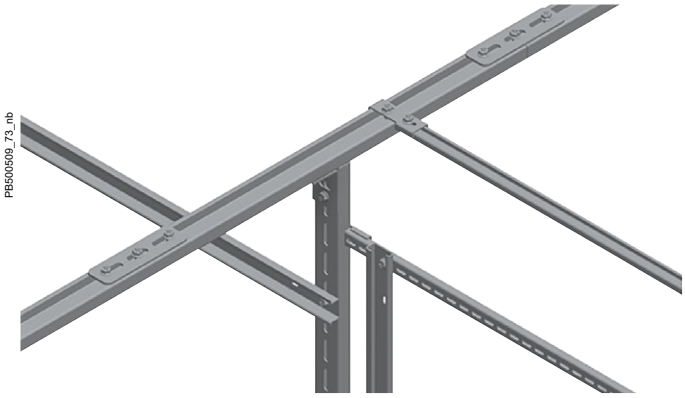
- To create L-shaped assemblies with plane change in the symmetric C-shaped rails, between them or with any other section.
- Material: Zinc-coated steel



Supply:
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Characteristics	References
EN connectors	**NSYEN20**
EN connectors	**NSYEN40**

Examples



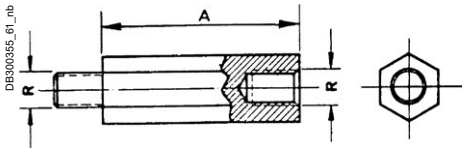
Combinations with connectors for symmetric C-shaped rails

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Connectors for Symmetric C-Shaped Rails

Hexagonal Spacers

CRN | S3D | S3CM | SFN IT



- Hexagonal spacers for raising switchgear, mounting plates, etc. They can be linked to achieve variable heights with gradual elevation.
- Their assembly requires M6 or M8 caged nuts.
- Material: Zinc-coated steel
- Installation: If used to raise a mounting plate, the maximum load of the mounting plate is decreased

Supply:
100 hexagonal connectors.
References by unit.
Order by multiples of 100 units
(100, 200, 300, etc.)


NSYE1025

Characteristics	Thread type	Spacer height (mm)	References
Hexagonal spacers	M5	10	**NSYE1025**
Hexagonal spacers	M5	15	**NSYE1525**
Hexagonal spacers	M5	20	**NSYE2025**
Hexagonal spacers	M6	10	**NSYEX106**
Hexagonal spacers	M6	14	**NSYEX146**
Hexagonal spacers	M6	16	**NSYEX166**
Hexagonal spacers	M6	20	**NSYEX206**
Hexagonal spacers	M6	30	**NSYEX306**
Hexagonal spacers	M6	40	**NSYEX406**
Hexagonal spacers	M6	50	**NSYEX506**
Hexagonal spacers	M6	100	**NSYEX1006**
Hexagonal spacers	M8	15	**NSYEX158**
Hexagonal spacers	M8	20	**NSYEX208**
Hexagonal spacers	M8	30	**NSYEX308**
Hexagonal spacers	M8	40	**NSYEX408**
Hexagonal spacers	M8	50	**NSYEX508**
Hexagonal spacers	M8	60	**NSYEX608**
Hexagonal spacers	M8	100	**NSYEX1008**

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Mounting Accessories

Modular Chassis

DLM Modular Chassis

CRN | S3D | S3X | S3DM

- The chassis consists of metal cut-out front panels, which can be clipped on without screws.
- The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.
- Material: Rigid galvanized steel structure
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

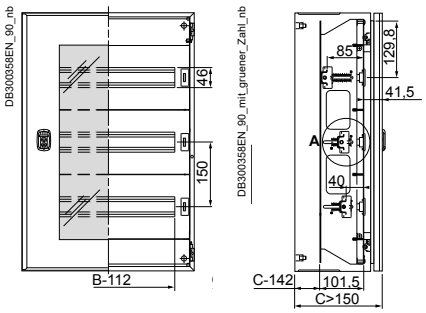
Note:
1 module = 2 steps = 18 mm



NSYDLM24

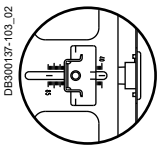
Characteristics	Number of modules	Height (mm)	Width (mm)(B)	References
DLM modular chassis	24	400	300	**NSYDLM24**
DLM modular chassis	48	500	400	**NSYDLM48**
DLM modular chassis	48	600	400	**NSYDLM48P**
DLM modular chassis	84	600	600	**NSYDLM84P**
DLM modular chassis	66	700	500	**NSYDLM66** *
DLM modular chassis	88	700	500	**NSYDLM88**
DLM modular chassis	84	800	600	**NSYDLM84** *
DLM modular chassis	112	800	600	**NSYDLM112**
DLM modular chassis	168	1000	600	**NSYDLM168**
DLM modular chassis	234	1000	800	**NSYDLM240**

* Chassis with a plain front plate includes a partial mounting plate.



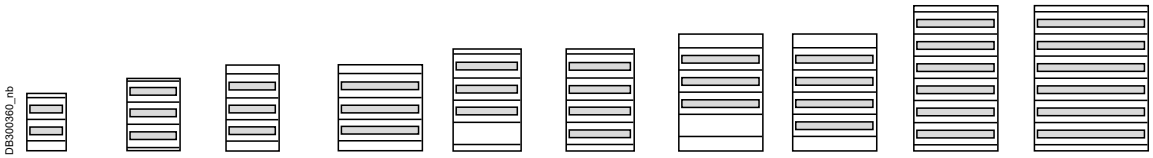
Front Panel Cut-Out

B: Enclosure width
C: Enclosure depth



Detail A
Rail Adjustment: 45 mm

Number of Modules per Chassis (Every 18 mm)



Chassis reference	NSYDLM24	NSYDLM48	NSYDLM48P	NSYDLM84P	NSYDLM66*	NSYDLM88	NSYDLM84*	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n. of modules	24	48	48	84	66	88	84	112	168	234

Note:
References **NSYDLM48**, **NSYDLM48P** and **NSYDLM84P**: the central row cannot receive modules at the height of the lock (check our technical instructions) when installed at the front of the enclosure. In this case, 1 module is sealed up. DLM modular chassis. The dimensions provided include the modular chassis which is the most commonly used accessory with this enclosure.

* Chassis with a plain front plate includes a partial mounting plate.

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DLA Modular Chassis for Distribution

S3D S3X PLM



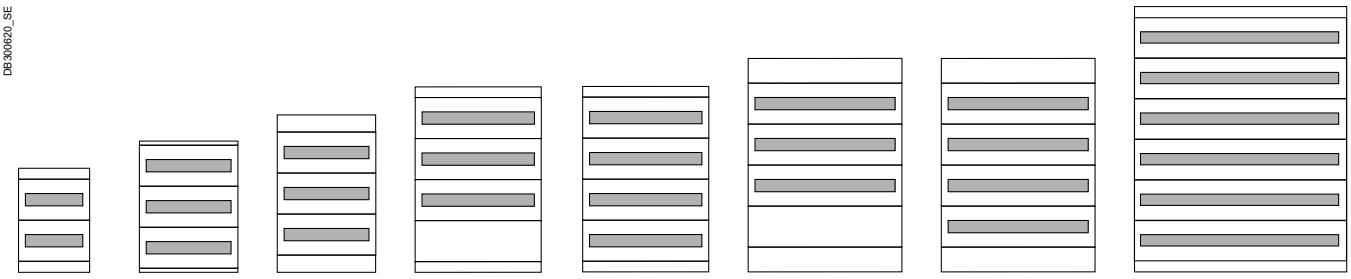
PB502875_60_nb

NSYDLA24G

- Front panels and covers installed in the front part, not depth adjustable
- Rigid structure for the installation of modular devices
- Open front panels with 35-mm DIN rail and plain front panels with mounted plate, according to the model
- Front plates are quickly installed with no fixings
- Rail depth adjustable from 40 to 85 mm
- System for standard circuit marking
- Incompatible with the internal doors and the step slides
- Neutral/earth strip: 2 x 16 mm² + 5 x 6 mm²
- Material:
  - Front panels and finish covers: Polystyrene
  - Rigid structure: Galvanized steel
- Color: Front panels and finish covers: RAL 7035 gray

Characteristics	No. of rows	No. of 18 mm modules per row	No. of 18 mm modules	No. of plates	PLM enclosure References		S3D enclosure (depth ≥ 200 mm) Height (mm)	S3D enclosure (depth ≥ 200 mm) Width (mm)	References
DLA modular chassis	2	12	24	-	NSYPLM43G	NSYPLM43TG	400	300	**NSYDLA24G**
DLA modular chassis	3	16	48	-	NSYPLM54G	NSYPLM54TG	500	400	**NSYDLA48G**
DLA modular chassis	3	16	48	-	NSYPLM64G	NSYPLM64TG	600	400	**NSYDLA48PG**
DLA modular chassis	3	22	66	1	NSYPLM75G	NSYPLM75TG	700	500	**NSYDLA66G** *
DLA modular chassis	4	22	88	-	NSYPLM75G	NSYPLM75TG	700	500	**NSYDLA88G**
DLA modular chassis	3	28	84	1	NSYPLM86G	NSYPLM86TG	800	600	**NSYDLA84G** *
DLA modular chassis	4	28	112	-	NSYPLM86G	NSYPLM86TG	800	600	**NSYDLA112G**
DLA modular chassis	6	39	234	-	NSYPLM108G	NSYPLM108TG	1000	800	**NSYDLA234G**

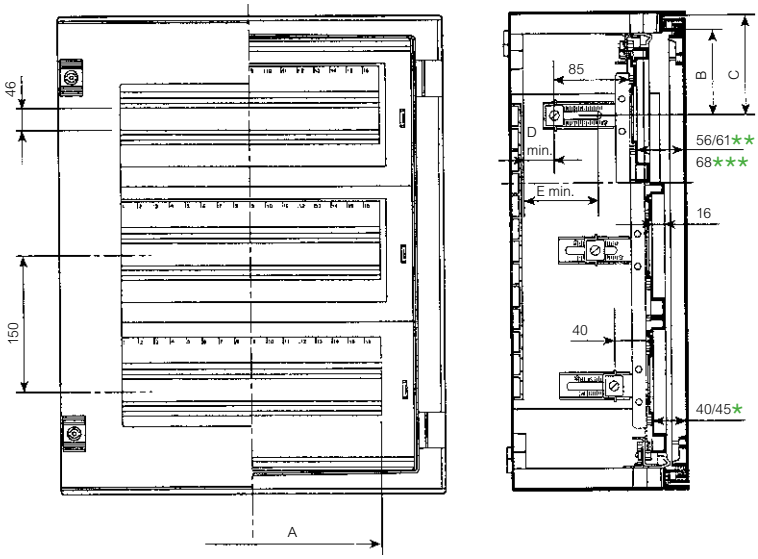
DB300620_SE



NSYDLA24G **NSYDLA48G** **NSYDLA48PG** **NSYDLA66G** **NSYDLA88G** **NSYDLA84G** **NSYDLA112G** **NSYDLA234G**

* Chassis with a plain front plate includes a partial mounting plate.

DB300621_72_nb



★★ Models **NSYDLA48PG**, **66G**, **88G**, **84G** and **112G**.
★★★ Models **NSYDLA234G**.

Plain Front Panels for DLA Modular Chassis

S3D S3X PLM

- Front panel for non-modular device protection on one row.
- To be ordered in multiples of two.
- Material: Polystyrene
- Color: RAL 7035 gray



NSYCTL300DLAG

Characteristics	Width (mm)	For installing on the chassis	References
Plain front panels for DLA modular chassis	456	NSYDLA66G and NSYDLA88G	**NSYCTL500DLAG**
Plain front panels for DLA modular chassis	555	NSYDLA84G and NSYDLA112G	**NSYCTL600DLAG**
Plain front panels for DLA modular chassis	755	NSYDLA234G	**NSYCTL800DLAG**

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Mounting Accessories

Modular Chassis

Modular Distribution Chassis

S3D S3X PLM

- For mounted modular devices on two rows of nine 18-mm modules.
- Material:
  Chassis: Metal Protective
  Plate: Insulated material


NSYDLPLM18G

Characteristics	For enclosure	Reference
Modular distribution chassis	NSYPLM3025G/TG	**NSYDLPLM18G**

PLA PHD

- Chassis for modular switchgear, installed directly in the sealed enclosures (PLA version).
  For installation in enclosures with open bottom part (PLAZ version)
  it is necessary to use a set of adapter plates (ref. **NSYPTZ●●●**).
- Chassis made up of cover plates on a rigid structure.
- Quick installation without fixings.
- Distance between rail and front panel with adjustable depth from 40 to 85 mm.
- System for identifying electrical circuits supplied.
- Neutral/earth strip: 2 x 16 mm² + 5 x 6 mm² included in the standard offer.
- Incompatibility with: Cable entry plate, internal door,
  door switch and door retainer (ref. **NSYRETPLAU**).
- Material: Rigid structure: Galvanized steel, Cover plates: Self-extinguishing insulated
- Color: Cover plates: RAL 7035 gray

Note:
For dimensions see page 507
Other modular distribution accessories on page 512


PB502917_22_nb

Dimensions (mm) Height (A)	Width (B)	No. of doors	No. of rows	Rows for module	No. of modules 18 mm	No. of plates	References
750	500	1	4	4	76	-	**NSYDLP76G**
750	500	1	4	3	57	1	**NSYDLP57G** *
750	750	1	4	4	132	-	**NSYDLP132G**
750	750	1	4	3	99	1	**NSYDLP99G** *
750	1000	2	4 + 4	4 + 4	152	-	2 x **NSYDLP76G**
750	1000	2	4 + 4	3 + 3	114	1 + 1	2 x **NSYDLP57G** *
750	1250	2	4 + 4	4 + 4	208	-	**NSYDLP76G** + **NSYDLP132G**
750	1250	2	4 + 4	3 + 3	156	1 + 1	**NSYDLP57G** * + **NSYDLP99G** *
1000	500	1	6	6	114	-	**NSYDLP114G**
1000	500	1	6	5	95	1	**NSYDLP95G** *
1000	750	1	6	6	198	-	**NSYDLP198G**
1000	750	1	6	5	165	1	**NSYDLP165G** *
1000	1000	2	6 + 6	6 + 6	228	-	2 x **NSYDLP114G**
1000	1000	2	6 + 6	5 + 5	190	1 + 1	2 x **NSYDLP95G** *
1000	1250	2	6 + 6	6 + 6	312	-	**NSYDLP114G** + **NSYDLP198G**
1000	1250	2	6 + 6	5 + 5	260	1 + 1	**NSYDLP95G** * + **NSYDLP165G** *
1250	500	1	7	7	133	-	**NSYDLP133G**
1250	500	1	7	6	114	1	**NSYDLP114PG** *
1250	750	1	7	7	231	-	**NSYDLP231G**
1250	750	1	7	6	198	1	**NSYDLP198PG** *
1250	1000	2	7 + 7	7 + 7	266	-	2 x **NSYDLP133G**
1250	1000	2	7 + 7	6 + 6	228	1 + 1	2 x **NSYDLP114PG** *
1250	1250	2	7 + 7	7 + 7	364	-	**NSYDLP133G** + **NSYDLP231G**
1250	1250	2	7 + 7	6 + 6	312	1 + 1	**NSYDLP114PG** * + **NSYDLP198PG** *
1500	500	1	9	9	171	-	**NSYDLP171G**
1500	500	1	9	8	152	1	**NSYDLP152G** *
1500	750	1	9	9	297	-	**NSYDLP297G**
1500	750	1	9	8	264	1	**NSYDLP264G** *
1500	1000	2	9 + 9	9 + 9	342	-	2 x **NSYDLP171G**
1500	1000	2	9 + 9	8 + 8	304	-	2 x **NSYDLP152G** *
1500	1250	2	9 + 9	9 + 9	468	1 + 1	**NSYDLP171G** + **NSYDLP297G**
1500	1250	2	9 + 9	8 + 8	416	1 + 1	**NSYDLP152G** * + **NSYDLP264G** *

* Chassis with a plain front plate includes a partial mounting plate.

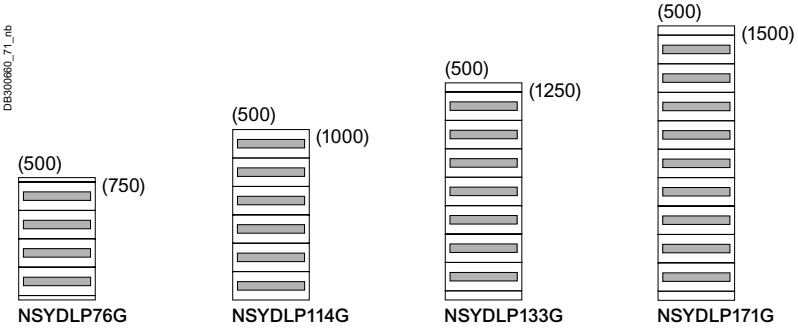
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Modular Distribution Chassis

PB502918_55_NB

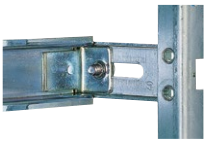


DB300660_71_nb

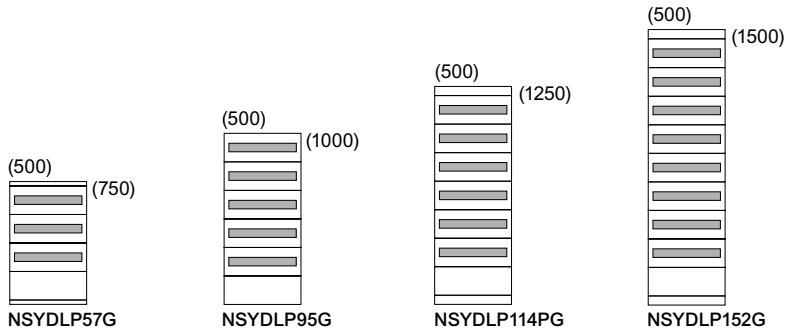


NSYDLP76G | NSYDLP114G | NSYDLP133G | NSYDLP171G

PB501388_41_nb



Details of the Depth Adjustment

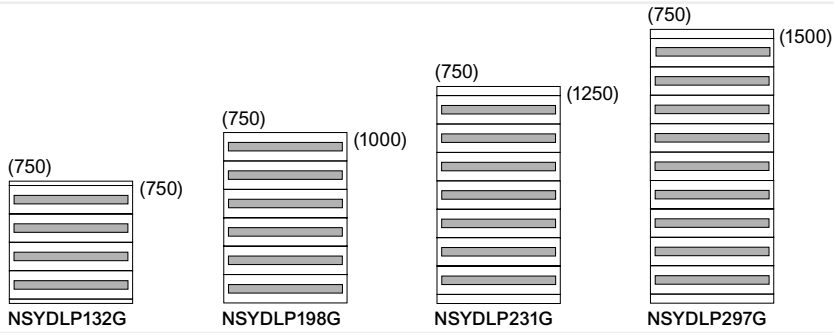


NSYDLP57G | NSYDLP95G | NSYDLP114PG | NSYDLP152G

PB502919_37_nb



Detail from Front Panel Mounting

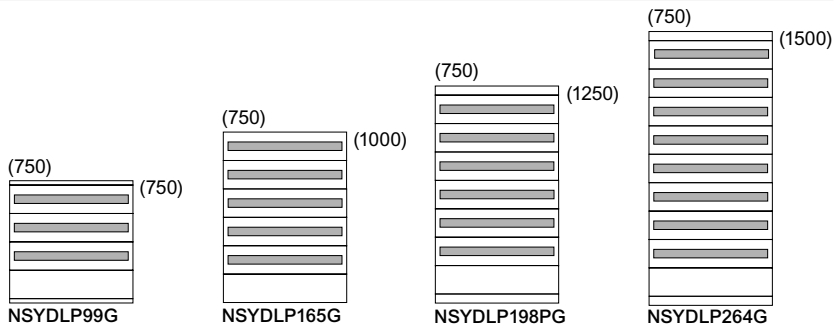


NSYDLP132G | NSYDLP198G | NSYDLP231G | NSYDLP297G

PB502920_32_nb

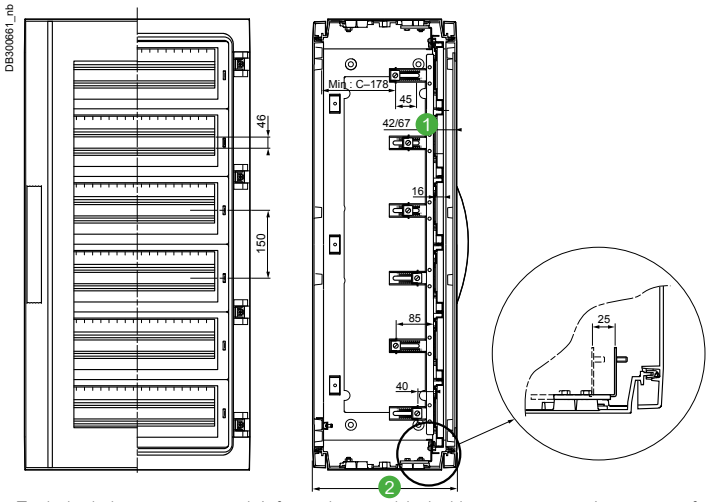


Detail from the Circuit Marking System



NSYDLP99G | NSYDLP165G | NSYDLP198PG | NSYDLP264G

DB300661_nb



1 Dimensions of 42 or 67 mm or a pitch of 25 mm, according to the M8 boss chosen for the installation. See details in the enlarged image on the right. In enclosures with glazed doors, the two dimensions are reduced by 5 mm.

2 C = Depth of the enclosure.

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Mounting Accessories

Modular Chassis

DL Modular Chassis

CRN S3D S3X S3DM

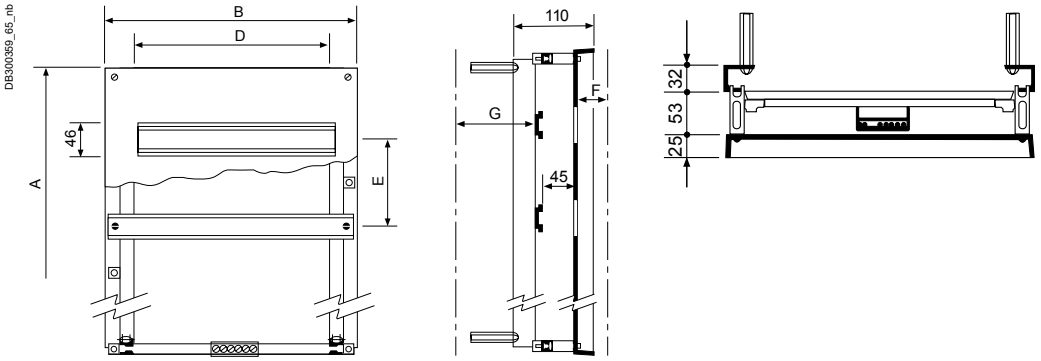
- Modular chassis designed for devices with heights of 53 and 68 mm, which can be coupled directly to the enclosure plate-support screws.
- Distance between device rail and protective cover plate: 45 mm.
- One-piece modular chassis
- The depth of the chassis can't be adjustable
- Material: Steel
- Finish: Metal protective cover plate
- Color: RAL 7035 gray

Note:
For PanelSeT S3D please consult us
Depth 150 mm: For coupling to enclosures with a depth of 200 mm, the stand-offs (ref. **NSYEX608**) are to be ordered separately (4 per chassis).


NSYDLCR24

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
DL modular chassis	300	250	150	**NSYDLCR18**
DL modular chassis	400	300	150	**NSYDLCR24**
DL modular chassis	400	300	150	**NSYDLCR36**
DL modular chassis	500	400	150	**NSYDLCR48**
DL modular chassis	600	400	150/200	**NSYDLCR64**
DL modular chassis	600	500	150/200	**NSYDLCR88**
DL modular chassis	700	500	200	**NSYDLCR110**
DL modular chassis	800	600	200	**NSYDLCR135**

* Chassis with a plain front plate includes a partial mounting plate



Dimension F: Distance from the protective cover plate to the inside of the door.
Dimension G: Distance from the device-support rail to the rear of the enclosure.

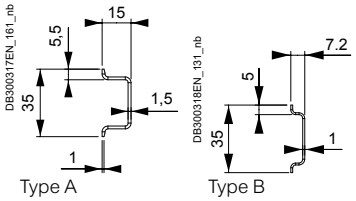
For coupling to the enclosures with normal or transparent door	Dimensions (mm)						Number of 18 mm modules	Number of rows	Approx. weight (kg)
References	A	B	D	E	F	G			
NSYDLCR18	255	205	162	120	41	51	18	2	1.2
NSYDLCR24	355	255	216	160	41	51	24	2	1.7
NSYDLCR36	355	255	216	110	41	51	36	3	1.7
NSYDLCR48	455	355	288	130	41	51	48	3	2.4
NSYDLCR64	555	355	288	130	41	51/101	64	4	3.3
NSYDLCR88	555	455	396	130	41	51/101	88	4	4.5
NSYDLCR110	655	455	396	125	41	101	110	5	5.1
NSYDLCR135	755	555	486	140	41	101	135	5	7.5

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DIN rail chassis

CRN S3D S3X PLM S3DEX

- Components supplied with a DIN rail chassis:
  - Aluminum uprights.
  - DIN rails (symmetric section A or B, according to the reference).
  - Screws, washers and nuts need to mount the DIN rails to the uprights.
  - Set of four adapters, ref. NSYAMCSF, needed to fix the uprights to the enclosure. They are coupled directly to the rear of the actual enclosure or to the sliding plate supports.
  - Double-door enclosures offer the option of installing two plates.
- Material: Aluminum - Zinc-coated steel
- Supply: One DIN rail chassis



Type A Type B



Characteristics	Height (mm)	Width (mm)	Type of rails	No. of rails	References
DIN rail chassis	300	300	B	4	**NSYMD33**
DIN rail chassis	400	300	B	4	**NSYMD43**
DIN rail chassis	500	400	B	4	**NSYMD54**
DIN rail chassis	600	400	B	6	**NSYMD64**
DIN rail chassis	600	600	A	6	**NSYMD66**
DIN rail chassis	700	500	B	6	**NSYMD75**
DIN rail chassis	800	600	A	6	**NSYMD86**
DIN rail chassis	800	600	A	6	2 x **NSYMD86**
DIN rail chassis	1000	800	A	6	**NSYMD108**
DIN rail chassis	1200	750	A	7	**NSYMD128**

Blanking Plate

CRN S3D S3X S3DM

- Blanking plate for full or partial covering of the circuit-breaker windows; it can easily be cut to the required size.
- Material: PVC (polyvinyl chloride)

Note:
For enclosures with transparent door, the F dimension is reduced by 4 mm



Characteristics	Number of modules	Color	Length (mm)	References
Blanking plate	4	RAL 7035 gray	72	**NSYATP72M**
Blanking plate	24	RAL 7035 gray	432	**NSYATP24DTM**
Blanking plate	61	RAL 7035 gray	1100	**NSYATPUND**

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Mounting Accessories

19" Racks

19" Fixed Chassis for Wall-Mounted Enclosure

CRN | S3D | S3X | S3D IT

- 19" fixed chassis comprising 2 19" uprights with fixing.
- Adjustable in depth by fixing on the step slides available as accessory.
- Material: Galvanized steel
- Thickness: 20/10^{e} mm
- Maximum load: 3 kg per unit


NSYVDM8UF

Characteristics	Enclosure dimensions (mm)		Unit number	References
	Height	Width		
19" fixed chassis	400	600	8	**NSYVDM8UF**
19" fixed chassis	600	600	12	**NSYVDM12UF**
19" fixed chassis	800	600	17	**NSYVDM17UF**
19" fixed chassis	1000	600	21	**NSYVDM21UF**

19" Swing Chassis for Wall-Mounted Enclosure

CRN | S3D | S3X | S3D IT

- 19" swing chassis opening to 120° with locking system by 3-mm double-bar insert.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray
- Maximum load: 3 kg per unit


NSYVDM11UP

Characteristics	Enclosure dimensions (mm)		Unit number	References
	Height	Width		
19" swing chassis	600	600	11	**NSYVDM11UP**
19" swing chassis	800	600	16	**NSYVDM16UP**
19" swing chassis	1000	600	20	**NSYVDM20UP**
19" swing chassis	1000	800	20	**NSYVDM20U8P**
19" swing chassis	1200	800	25	**NSYVDM25U8P**

Fixings for 19" Rack

SM | SFN | SFN IT

- They allow 19" accessories to be mounted.
- Caged nut compatible with 8.5 x 8.5 mm and 9.5 x 9.5 mm holes.


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NSYGFR95M63

Characteristics	Set of	References
M6 screws + washers + nuts 8,5 mm	30	**NSYGFR95M63**
M6 x 16 screws and washers	50	**NSYGFR166P**
M6 caged nuts 9,5 mm	100	**NSYCN9M625**
M6 screws + washers + nuts 9,5 mm	50	**NSYGFR95M65**
M5 screws + washers + nuts 9,5 mm	50	**NSYGFR95M55**

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19'' Fixed Chassis

PLA PHD

Installation: For heights from 750 to 1500 mm, the installation requires ordering one set of two matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure

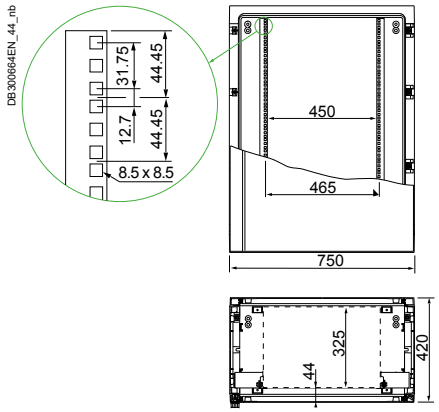
- Very sturdy 19" metal chassis, designed for installation in enclosures with a width of 750 and 1250 mm.
  In enclosures with a width of 1250 mm, the chassis is installed in the 750-mm part with an intermediate support, ref. **NSYSBPLA**.
- These chassis can be used as partial mounting plates in enclosures with a height greater than the nominal height.
- Incompatible with the internal doors and the step slides.
- Fixed chassis made up of two uprights with fixings
- Material: Galvanized steel
- Finish: Epoxy polyester paint
- Color: RAL 7035 gray
- Maximum load: 3 kg per unit

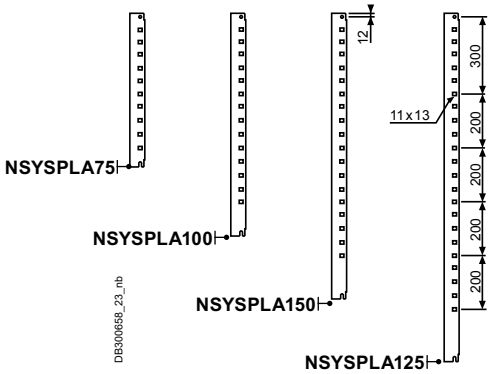


NSYBRF8PLAG

Characteristics	Height (mm)	Width (mm)	# of units	References
19" fixed chassis	500	750	8	**NSYBRF8PLAG**
19" fixed chassis	750	750	12	**NSYBRF12PLAG**
19" fixed chassis	1000	750	17	**NSYBRF17PLAG**
19" fixed chassis	1250	750	21	**NSYBRF21PLAG**
19" fixed chassis	1500	750	26	**NSYBRF26PLAG**
19" fixed chassis	2000	750	2 x 17	2 x **NSYBRF17PLAG** + **NSYPTZ4**
Set of two uprights	750	750	12	**NSYSPLA75**
Set of two uprights	1000	750	17	**NSYSPLA100**
Set of two uprights	1250	750	21	**NSYSPLA125**
Set of two uprights	1500	750	26	**NSYSPLA150***
Set of two uprights	2000	750	2 x 17	2 x **NSYSPLA100**

* Not compatible with **NSYCAAPVHD**.





6

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Mounting Accessories

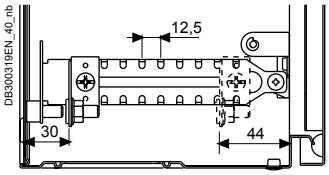
Other Mounting Accessories

Step Slides for Mounting Plate

CRN S3D S3X S3CM


NSYSDCR200

- Set of four supports intended for installation in enclosures with depths of 200 and 250 mm.
- The rail allows the depth of the plate and other accessories to be adjusted in steps of 12.5 mm.



Supply:
Four step slides

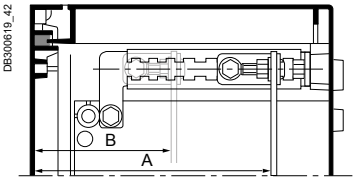
Characteristics	Enclosure depth (mm)	Reference
Step slides for mounting plate	200	**NSYSDCR200**
Step slides for mounting plate	250	**NSYSDCR250**
Step slides for mounting plate	300	**NSYSDCR300**
Step slides for mounting plate	400	**NSYSDCR400**

Step slides for 2 mounting plates in one enclosure

Step Slides

PLM

Kit allowing depth adjustment with a pitch of 12.5 mm, and the fixings required for the installation. Incompatible with the modular distribution chassis.



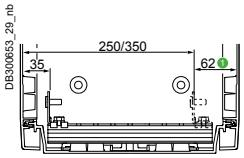
Supply:
4 step slides with brackets


NSYDPLM200

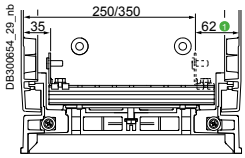
Characteristics (Material: Galvanized steel)	For wall-mounted enclosure depth (mm)	Depth adjustment A (mm)	Depth adjustment B (mm)	References
Step slides	200	156	94	**NSYDPLM200**
Step slides	250	200	100	**NSYDPLM250**
Step slides	300	250	100	**NSYDPLM300**
Step slides	350	306	106	**NSYDPLM350**

PLA PHD

- Set of four step slides with brackets allowing continuous depth adjustment of the mounting plate, with a pitch of 25 mm.
- Designed for direct installation in the enclosures with sealed bottom part (versions PLA or PLAT).
- In the enclosures with open bottom part (versions PLAZ or PLAZT), installation is made possible by adding the relevant adapter plates.
- Incompatibility with: Internal door, modular distribution chassis, 19" chassis, cable entry plate and door retainer, ref. **NSYRETPLAU**.
- Material: Bracket with steel M8 stud on aluminum rail.
- Fixing: Fixing on the top and bottom parts of the enclosure by means of M8 inserts and screws (supplied).



Installation of step slide ref. **NSYDPLA●●●**, 1 57 mm with one transparent door.



Installation of step slide ref. **NSYDPLA●●●**, with adapter plate ref. **NSYPTZ●●●**, 1 57 mm with one transparent door.


NSYDPLA3_nb_01


NSYDPLA3_nb_02


NSYDPLA3

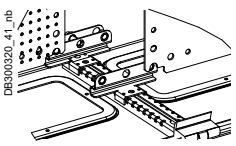
Characteristics	Depth (mm)	Number of doors	References
Step slides	320	1	**NSYDPLA3**
Step slides	320	2	2 x **NSYDPLA3**
Step slides	420	1	**NSYDPLA4**
Step slides	420	2	2 x **NSYDPLA4**
Step slides	620	1	**NSYDPLA6**
Step slides	620	2	2 x **NSYDPLA6**

Slide Bracket for Two Mounting Plates at Different Depths

CRN PLM S3CM


NSYCRNGSDR

- Additional slide bracket to be installed on the central step slides in order to mount two mounting plates, side by side, in 300 and 400 mm depth.



Supply:
Two slide brackets

Characteristics	Reference
Slide bracket for two mounting plates at different depths	**NSYCRNGSDR**

Additional Support

PLA

- Set of four additional brackets, to be slid into the step slides, for the installation of an additional mounting plate.


NSYEDPLA

Characteristics	Reference
Additional support	**NSYEDPLA**

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Fixed Tray

SM SFN SFN PC

Options for fixing the tray to the enclosure:
If the tray has the same dimensions as the enclosure:
- PanelSeT SFN: Direct fixing to the structure.
- PanelSeT SFX: Installation possible only with universal cross-rails, see page 493.
- PanelSeT SM: Fixing by means of adaptation profiles and 40 mm universal cross-rails (1 row) in vertical position.

If the tray is smaller than the dimensions of the enclosure:
- Fixing on depth cross-rails.
- Depth-adjustable tray with a pitch of 25 mm.

- Provided with cut-outs for improving air circulation inside.
- Material: Steel
- Finish: Painted with epoxy polyester resin
- Color: RAL 7035 gray
- Maximum load: 150 kg direct fixed to the structure, 40 kg when universal cross-rails are used

Supply:
1 fixed tray and fixing elements



NSYFXT6040

Characteristics	Width (mm)	Depth (mm)	References
Fixed tray	600	400	**NSYFXT6040**
Fixed tray	800	400	**NSYFXT8040**
Fixed tray	600	500	**NSYFXT6050**
Fixed tray	800	500	**NSYFXT8050**
Fixed tray	600	600	**NSYFXT6060**
Fixed tray	800	600	**NSYFXT8060**
Fixed tray	800	800	**NSYFXT8080**

Telescopic Rails

SM SFN SFN PC

Options for fixing the tray to the enclosure:
- PanelSeT SFN: Installation directly on the structure of the enclosure or on universal cross-rails.
- PanelSeT SFX: Instalation possible only with universal cross-rails, see page 493.
- PanelSeT SM: Installation by means of adaptation profiles and 40 mm universal cross-rails (1 row) in vertical position, or on horizontal universal cross-rails.

The installation of a telescopic tray consists of the following:
- 1 fixed tray.
- 2 telescopic rails.

- Mechanical stop of the rails in open and closed position.
- Material: Galvanized steel
- Finish: Painted with epoxy polyester resin
- Maximum load: 25 kg evenly distributed

Supply:
2 telescopic rails and fixing elements



NSYTTG40

Characteristics	Width (mm)	Depth (mm)	References
Telescopic rails	600/800	400	**NSYTTG40**
Telescopic rails	600/800	500	**NSYTTG50**
Telescopic rails	600/800	600/800	**NSYTTG60**

Handle for Telescopic Trays

SFN SFN PC

- Designed for easy extraction of the sliding trays.
- Material: Polyamide 6 (black).

Supply:
2 units and fixing elements

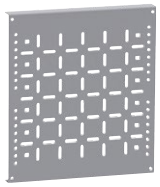


NSY1TH

Characteristics	References
Handle for telescopic trays	**NSY1TH**

Ventilated Shelf

SM



NSYDHLT8080

- Airing is ensured by two cut-out sizes:
  11 x 13 mm rectangles for fixation on both sides with self- tapping screws,
  40 x 8.5 mm rectangles.
- The ventilated shelf must be fixed in the enclosure with a heavy load kit.
- Material: Steel
- Color: RAL 7035 gray
- Maximum load: 350 kg



PB503466_42_nb

Supply:
1 tray and fixing elements

Characteristics	Tray dimensions W x D x H (mm)	Width (mm)	Depth (mm)	References
Ventilated shelf	700 x 759 x 50	800	800	**NSYDHLT8080**

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Mounting Accessories

Trays

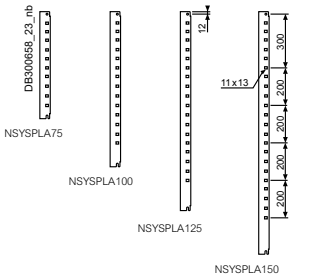
Support Plate

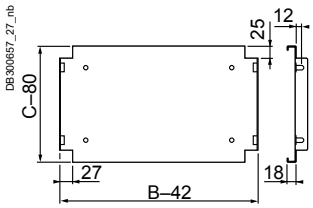
PLA



NSYSPLA75

Installation:
It is installed directly on the bottom part of the enclosure.
For the installation of one or several support plates, use two sets of two uprights suitable for the height (to be ordered separately). These uprights offer the option of adjusting the height with a step of 50 mm.





- Designed to support assorted equipment or simply to install a separation.
- In the two door enclosures, the installation of the plate or the uprights requires the prior installation of an intermediate support, ref. **NSYSBPLA**, presented beside.
- Material: Galvanized steel

Supply:
Delivered with the fixings required for installation

Characteristics	Height	Depth	Upright Number of adjustments	References
Support plate	750	320 / 420	2	2 x **NSYSPLA75**
Support plate	1000	320 / 420	3	2 x **NSYSPLA100**
Support plate	1250	320 / 420	4	2 x **NSYSPLA125**
Support plate	1500	–	5	2 x **NSYSPLA150**
Support plate	2000	420	6	2 x **NSYSPLA100**

Characteristics	Depth (C)	Width (B)	Plate Max. load	References
Support plate	320	500	60 kg	**NSYBANPLA53**
Support plate	420	500	50 kg	**NSYBANPLA54**
Support plate	420	750	50 kg	**NSYBANPLA74**
Support plate	620	750	50 kg	**NSYBANPLA76**

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Rail Support Bracket

SM SFN SMX SFX SD


NSYFB45

- Bracket for fixing rails at an angle of 45°.
- Material: Zinc-coated steel
- Insallation: PanelSeT SFN: Mounted on the structure and/or mounting plates
  PanelSeT SM: Mounted on the bottom mounting rail and/or mounting plates


PB500829_33_nb

Supply:
Ten units and fixing elements.
Reference by unit. Order by multiples of 10 (10, 20, 30...)

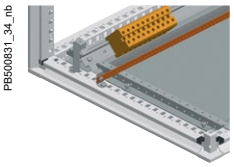
Characteristics	References
Rail support bracket	**NSYFB45**

Combined Support Bracket

SFN


NSYETF

- Allows the installation of a DIN rail and an earthing strip on different planes to minimize the cable radiuses.
- Material: Zinc-coated steel
- Insallation: PanelSeT SFN: Directly on the structure and/or using mounting plates
  PanelSeT SM: On the bottom adjustment rails and/or on mounting plates


PB500831_34_nb

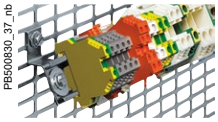
Supply:
Ten combined support brackets and fixing elements.
Reference by unit. Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Combined support bracket	**NSYETF**

Terminal-Block Support Bracket


NSYEDCO

- Allow the mounting of a DIN rail.
- Tilted to 30°.
- Material: Treated steel


PB500830_37_nb

Supply:
Two lugs and fixings

Characteristics	References
Terminal-block support bracket	**NSYEDCO**

Combined Support Bracket (Vertical)


DZ5MS10

- Allow the installation of a DIN rail and an earthing strip on different planes, to minimize the cable radiuses.
- Material: Zinc-coated steel
- Installation: PanelSeT SFN and SM: Directly on the vertical structure and/or using mounting plates


PB502727_68_nb

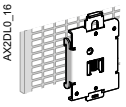
Supply:
10 brackets

Characteristics	References
Combined support bracket (vertical)	**DZ5MS10**

Clicked Support Plate


AX2DL01

- For screw mounted equipment.
- For mounting on 35 mm symmetric and double profile DIN rails or Telequick mounting plate.
- Material: Zinc-plate coated


AX2DL0_16

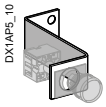
Supply:
Ten units and fixing elements.
Reference by unit. Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Clicked support plate, 44 x 65 - 9 screws	**AX2DL01**
Clicked support plate, 49 x 65 - 4 screws	**AX2DL02**

Bracket for Fixing Control Units (Ø 22)


DX1AP52

- To mount any 22 mm diameter device directly on mounting plates.


DX1AP5_10

Supply:
Ten units and fixing elements.
Reference by unit. Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Bracket for fixing control units (Ø 22)	**DX1AP52**

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Mounting Accessories

Additional Mounting Accessories

Clip-On Nuts for Telequick Mounting Plate

- Used to easily fix devices on the Telequick mounting plate with the option of converting the layout as much as needed.

Supply:
100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...)


AF1EA3

Characteristics	Reference
Clip-on nuts for Telequick mounting plate, Model M3	**AF1EA3**
Clip-on nuts for Telequick mounting plate, Model M4	**AF1EA4**
Clip-on nuts for Telequick mounting plate, Model M5	**AF1EA5**
Clip-on nuts for Telequick mounting plate, Model M6	**AF1EA6**

Self-Tapping Screws

CRN | S3D | SM | SFN | S3X | PLS | PLM | PLA | S3CM


NSYS13M5HS

Supply:
100 units. To be ordered in multiples of 100 (100, 200, 300, etc.)

- Hexagonal head, 4.8 x 16 mm thread.
- Drilling capacity: Thicknesses between 17.5/10^{e} and 40/10^{e} mm.


NSYS16M5HS

Characteristics	References
Plain mounting plate screw, self-tapping screw M5 x 13	**NSYS13M5HS**
Plain mounting plate screw, Self-tapping screw M5 x 16	**NSYS16M5HS**
Plain mounting plate screw, Self-tapping screw M6 x 16	**NSYS16M6HS**

Nuts for Uprights and Serrated C-Shaped Rails

SM | SFN | PLA


PB500818_31_nb


NSYSNSM6


NSYSNM6


NSYCNM6


NSYFNM6

Characteristics	Supply (units)	References
M6 quarter-turn sliding nut	10	**NSYSNM6**
M8 quarter-turn sliding nut	10	**NSYSNM8**
M6 quarter-turn serrated sliding nut	10	**NSYSNSM6**
M8 quarter-turn serrated sliding nut	10	**NSYSNSM8**
M6 renovable nut	50	**NSYCNM6**
M8 renovable nut	50	**NSYCNM8**
M6 flat nut	50	**NSYFNM6**
M8 flat nut	50	**NSYFNM8**

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Fixing, Coupling and Composition Accessories

Side Panels

Side Panels

SFN MCC

- Set of 2 side panels fixed from the outside of the enclosure.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Supply:
2 side panels, with sealing gasket and captive screws



NSY2SPN124

Characteristics	Height (mm)	Depth (mm)	References
Set of 2 side panels fixed from the outside of the enclosure	1200	400	**NSY2SPN124**
Set of 2 side panels fixed from the outside of the enclosure	1200	500	**NSY2SPN125**
Set of 2 side panels fixed from the outside of the enclosure	1200	600	**NSY2SPN126**
Set of 2 side panels fixed from the outside of the enclosure	1200	800	**NSY2SPN128**
Set of 2 side panels fixed from the outside of the enclosure	1400	400	**NSY2SPN144**
Set of 2 side panels fixed from the outside of the enclosure	1400	500	**NSY2SPN145**
Set of 2 side panels fixed from the outside of the enclosure	1400	600	**NSY2SPN146**
Set of 2 side panels fixed from the outside of the enclosure	1400	800	**NSY2SPN148**
Set of 2 side panels fixed from the outside of the enclosure	1600	400	**NSY2SPN164**
Set of 2 side panels fixed from the outside of the enclosure	1600	500	**NSY2SPN165**
Set of 2 side panels fixed from the outside of the enclosure	1600	600	**NSY2SPN166**
Set of 2 side panels fixed from the outside of the enclosure	1600	800	**NSY2SPN168**
Set of 2 side panels fixed from the outside of the enclosure	1800	400	**NSY2SPN184**
Set of 2 side panels fixed from the outside of the enclosure	1800	500	**NSY2SPN185**
Set of 2 side panels fixed from the outside of the enclosure	1800	600	**NSY2SPN186**
Set of 2 side panels fixed from the outside of the enclosure	1800	800	**NSY2SPN188**
Set of 2 side panels fixed from the outside of the enclosure	2000	400	**NSY2SPN204**
Set of 2 side panels fixed from the outside of the enclosure	2000	500	**NSY2SPN205**
Set of 2 side panels fixed from the outside of the enclosure	2000	600	**NSY2SPN206**
Set of 2 side panels fixed from the outside of the enclosure	2000	800	**NSY2SPN208**
Set of 2 side panels fixed from the outside of the enclosure	2200	400	**NSY2SPN224**
Set of 2 side panels fixed from the outside of the enclosure	2200	500	**NSY2SPN225**
Set of 2 side panels fixed from the outside of the enclosure	2200	600	**NSY2SPN226**
Set of 2 side panels fixed from the outside of the enclosure	2200	800	**NSY2SPN228**

SFX

- Side panels including a polyurethane sealing gasket.
- Their special design helps guarantee the protection of the door gasket
- 304L stainless-steel sheet


NSY2SPX184

Characteristics	Height of the enclosure (mm)	Depth of the enclosure (mm)	References
Set of 2 side panels	1800	400	**NSY2SPX184**
Set of 2 side panels	2000	400	**NSY2SPX204**
Set of 2 side panels	2000	500	**NSY2SPX205**
Set of 2 side panels	2000	600	**NSY2SPX206**

Partition Panel

SFN

- Partition panel for direct fixing to the structure, helps guarantee a water/dustproof protection of IP10 between enclosure suites.
- Material: Galvanized steel

Supply:
1 partition panel, sealing gasket and fixing elements


NSYPPS166

Characteristics	Height (mm)	Depth (mm)	References
Partition panel	1800	400	**NSYPPS184**
Partition panel	1800	500	**NSYPPS185**
Partition panel	1800	600	**NSYPPS186**
Partition panel	2000	400	**NSYPPS204**
Partition panel	2000	500	**NSYPPS205**
Partition panel	2000	600	**NSYPPS206**
Partition panel	2000	800	**NSYPPS208**

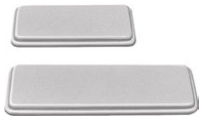
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Fixing, Coupling and Composition Accessories

Side Panels

Side Plates

PLS


NSYTL27270G

- Ingress protection rating: IP65

Characteristics	For surfaces (mm)	Width (mm)	References
Side plate	270	200	**NSYTL27270G**
Side plate	360	290	**NSYTL27360G**

Partial Opening Frame

PLS


NSYUCC270

- Ingress protection rating: Frame with full opening: IP44 between enclosures

Supply:
References by unit. Order by multiples of 10 units (10, 20, 30, etc.)

Characteristics	For surfaces (mm)	Opening (mm)	References
Partial-opening frame	270	200	**NSYUCC270**
Partial-opening frame	360	290	**NSYUCC360**

Accessories for Panels

SFN


NSYCSP

- Trim cap for external fixing panels, both sides and rear
- Material: Polyamide 6
- Color: RAL 7035 gray

Supply:
50 units

Characteristics	References
Trim cap for external fixing panels	**NSYCSP**

6

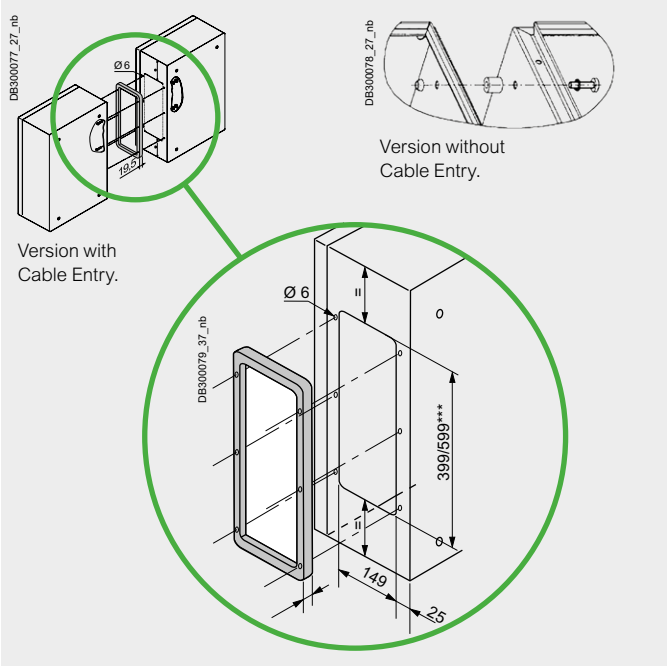
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Fixing, Coupling and Composition Accessories

Coupling Accessories

Coupling of Panel**SeT** Steel Enclosures

- Available in 2 versions:
  Coupling version without cable entry.
  Version with coupling frame allowing the entry of cables.
- Separation of 17 mm between 2 coupled enclosures, allowing full opening of the doors.
- Allows lateral coupling of 2 enclosures.
- These frames allow the door to open to 120°.
- Material: Fiberglass-reinforced polyester, self-extinguishing
- Ingress protection rating: IP66 according to IEC 60529



Coupling Spacers

CRN S3D

Supply:
Set of 4 spacers and their fixings. Mounting by screws, included


NSYAEUBUSC

Characteristics	References
Set of 4 coupling spacers	**NSYAEUBUSC**

Coupling Frames

CRN S3D


NSYAEUBU41SC

Characteristics	References
Coupling frame, 435 x 185 mm	**NSYAEUBU41SC**
Coupling frame, 635 x 185 mm	**NSYAEUBU61SC**

PLS

Comment:
Use the dimensional drawings of the boxes to identify which coupling frame you need. Consider the sides and surfaces you will join. Not UL-certified.


NSYUM27180

- Ingress protection rating: Frame with full opening: IP65 between enclosures

Characteristics	For surfaces (mm)	Opening (mm)	References
Full-opening frame	180	110	**NSYUM27180**
Full-opening frame	270	200	**NSYUM27270**
Full-opening frame	360	290	**NSYUM27360**

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Fixing, Coupling and Composition Accessories

Coupling Accessories

Standard Coupling Kit

SFN SFX

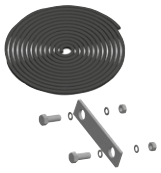

NSYSFBK

- Used for joining enclosures side-to-side or depthwide.
- Fixing from the inside of the enclosure.
- Material: Flat connectors and brackets: Zinc-coated steel Sealing gasket: EPDM
- Ingress protection rating: IP55 according to IEC 60529 (**NSYSFBK**)

Supply:
4 brackets, 2 flat connectors, sealing gasket, fixing elements and 16 caps

Characteristics	References
Standard coupling kit	**NSYSFBK**
Standard coupling kit	

SM


NSYSMBK

- Used for joining enclosuresside-to-side.
- Enclosures fixed from the inside.
- Material: 3 x 10 mm sealing gasket: EPDM
- Ingress protection rating: IP55 according to IEC 60529

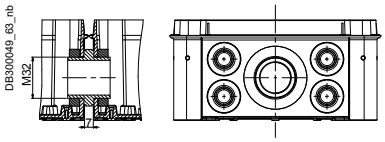
Supply:
1 sealing gasket and fixing elements

Characteristics	References
Enclosure coupling kit	**NSYSMBK**

Coupling Kit

TBS TBP


13934



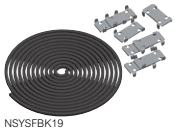
The coupling kit allows you to join several boxes with dimensions from 138 x 93 mm.
- Material: Polystyrene, glow wire resistance: 650 °C according to IEC 60695-2-11
- Ingress protection rating: IP66 according to IEC 60529
- Installation: The kit is installed by drilling a hole with Ø 32 mm in the boxes to be coupled

Supply:
The kit consists of 2 linking parts, nuts and seals

Characteristics	Drilling Ø	Minor pack.	Reference
Coupling kit	32 mm	1	**13934**

Swing 19" Rack or PrismaSet HD Coupling Kit

SFN SFX MCC


NSYSFBK19

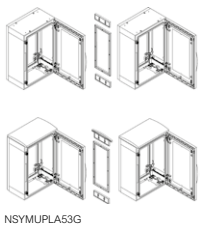
- Used for joining enclosures equipped with swing 19" rack, side-to-side or depthwise.
- Fixing from the inside of the enclosures.
- Material: Flat connectors: Zinc-coated steel
  Sealing gasket: EPDM
- Ingress protection rating: IP55 according to IEC 60529

Supply:
8 flat connectors, sealing gasket, fixing elements and 16 caps

Characteristics	References
Swing 19" rack coupling kit	**NSYSFBK19**

Horizontal Coupling Kits, 15 mm, Joining Two Enclosures Mounted on ZA Plinths

PLA PHD


NSYMUPLA53G

- For coupling two enclosures side by side.
- Coupling frame kit: Made up of a coupling kit and the fixings required for installation.
- Trim kit: Made up of two frames for aesthetic fitting of the two coupled enclosures.
- Coupling kit widths: 15 mm, joining two enclosures mounted on ZA plinths.
- Ingress protection rating: IP55 at the coupling point.

Note:
Not valid for coupling two enclosures using ZZ or ZH type plinth.

Characteristics	Depth (mm)	Height (mm)	References
Coupling frame kit 15 mm	320	500	**NSYMUPLA53G**
Coupling frame kit 15 mm	320	750	**NSYMUPLA73G**
Coupling frame kit 15 mm	320	1000	**NSYMUPLA103G**
Coupling frame kit 15 mm	320	1250	**NSYMUPLA123G**
Coupling frame kit 15 mm	320	1500	**NSYMUPLA153G**
Coupling frame kit 15 mm	420	500	**NSYMUPLA54G**
Coupling frame kit 15 mm	420	750	**NSYMUPLA74G**
Coupling frame kit 15 mm	420	1000	**NSYMUPLA104G**
Coupling frame kit 15 mm	420	1250	**NSYMUPLA124G**
Coupling frame kit 15 mm	420	1500	**NSYMUPLA154G**
Coupling frame kit 15 mm	420	2000	**NSYMUPLA204G**
Trim kit for enclosure without canopy	320	-	**NSYSUPLA3G**
Trim kit for enclosure without canopy	320	-	**NSYSUPLA3TG**
Trim kit for enclosure without canopy	420	-	**NSYSUPLA4G**
Trim kit for enclosure with canopy	420	-	**NSYSUPLA4TG**

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Fixing, Coupling and Composition Accessories

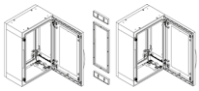
Coupling Accessories

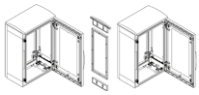
Horizontal coupling kits, 35 mm, joining two enclosures mounted on ZZ or ZH plinths

PLAZ PHD

- For coupling two enclosures side by side.
- Coupling frame kit: Made up of a coupling kit and the fixings required for installation.
- Coupling kit widths: 35 mm, joining two enclosures mounted on ZZ or ZH plinths
- Ingress protection rating: IP55 at the coupling point

Note:
Not valid for coupling two enclosures using ZA plinths.





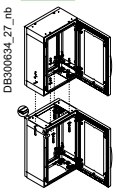
NSYMUPLA103W

Characteristics	Depth (mm)	Height (mm)	References
Coupling frame kit 35 mm	320	1000	**NSYMUPLA103W**
Coupling frame kit 35 mm	320	1250	**NSYMUPLA123W**
Coupling frame kit 35 mm	320	1500	**NSYMUPLA153W**
Coupling frame kit 35 mm	420	1000	**NSYMUPLA104W**
Coupling frame kit 35 mm	420	1250	**NSYMUPLA124W**
Coupling frame kit 35 mm	420	1500	**NSYMUPLA154W**

Vertical Coupling Kit

PLA

DB300634_27_nb



NSYUVPLA

- For coupling two enclosures on top of one another.
- Set of 3.5 m of adhesive seal and the fixings required for mounting.
- Ingress protection rating: IP55 at the coupling point.

Characteristics	References
Vertical coupling kit	**NSYUVPLA**

Reinforced Coupling

SFN



NSYSFBKR

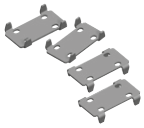
- It is used together with the coupling kit to reinforce the connection between 2 enclosures when they carry heavy loads.
- Fixing from the inside of the enclosures.
- Material: Zinc-coated steel.

Supply:
4 reinforced connectors and fixing elements

Characteristics	References
Reinforced coupling	**NSYSFBKR**

Quick Coupling

SFN



NSYSFBKF

- Used for quickly joining 2 enclosures.
- Fixing from the inside of the enclosures.
- Material: Zinc-coated steel

Supply:
4 flat links and fixing elements

Characteristics	References
Quick coupling	**NSYSFBKF**

External Coupling

SFN



NSYSFBKE

- Allows two enclosures to be joined by their structure.
- To be used with the standard coupling kit in those cases where front and back uprights are not accessible.
- The mounting plate or vertical uprights fixed to the back of the enclosure help prevent the assembly and dismantling of the kit.
- It can be combined with the reinforced or the quick coupling kit.
- Material: External connectors: Zinc-coated steel.

Supply:
4 external connectors and fixing elements

Characteristics	References
External coupling	**NSYSFBKE**

Box Coupling Unit Piece

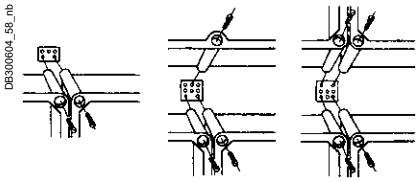
PLS





NSYPS2C27

DB300604_58_nb



- For coupling 2, 3 or 4 boxes, with optional wall-mounted.
- M6 x 8 mm screw with cylindrical head.

Supply:
To be ordered in multiples of 25

Characteristics	References
Box coupling unit piece for coupling 2 boxes	**NSYPS2C27**
Box coupling unit piece for coupling 3 or 4 boxes	**NSYPS4C27**

6

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Fixing, Coupling and Composition Accessories

Wall Fixing Lugs

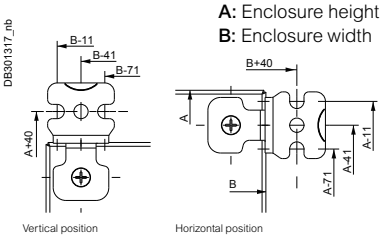
Standard Wall Fixing Lugs

SBM | CRN | S3D | SBX | S3X | SMX | S3HD

PanelSeT SBM and SBX:
- Wall-mounted lugs to be mounted directly on the rear of the box, either in horizontal or vertical position. Their versatile design complies with the mounting dimensions of many other enclosures.
- Ingress protection rating: IP66 according to IEC 60529
- Installation: Horizontal or vertical position, distance between wall and enclosure: 12 mm, only requires a screw driver
- Maximum load: 70 kg

PanelSeT CRN, S3X, S3D, S3HD, SFN HD:
- Set of 4 wall-fixing lugs.
- Mounted directly on the rear of the enclosure, either in horizontal or vertical position.
- Wall-to-enclosure spacing separation of 12 mm.
- Maximum load: 250 kg
- Not suitable for dynamic loads.
- For weights of the PanelSeT CRN enclosures without mounting plate refer to the selection table

A: Enclosure height
B: Enclosure width



Supply:
4 wall-mounted lugs, screws and pre-mounted sealing gaskets


NSYAEFPFSB

Characteristics	References
Wall fixing lugs	**NSYAEFPFSB**
Wall fixing lugs	**NSYAEFPFSBX**
Wall fixing lugs	**NSYPFCR**
Wall fixing lugs stainless-steel AISI 304L	**NSYPFCX**
Wall fixing lugs in stainless-steel AISI 316L	**NSYPFC2X**
Wall fixing lugs passivated zinc coated steel for indoor enclosure	**NSYAEFPFSC**
Wall fixing lugs, 304L stainless-steel	**NSYAEFPFXSC**
Wall fixing lugs for SMX	**NSYFCMX**

Lugs and Cover

S3D


NSYAEFPFSC2

Supply:
4 fixing brackets + covers

Characteristics	References
Wall fixing lugs + cover, passivated zinc-coated steel + PA	**NSYAEFPFSC2**

CRN | S3D


NSYCAEFPF

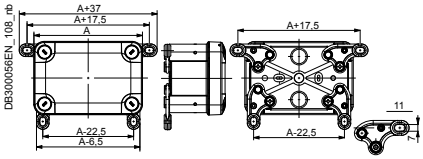
Supply:
Kit of 4 covers

Characteristics	References
Cover for wall fixing brackets, PA	**NSYCAEFPF**

Set of 4 Fixing Lugs

TBS | TBP

- Plastic fixing lugs for installation on boxes with dimensions from 116 x 116 mm.
- Option of vertical or horizontal installation.
- Installation: Installation by a single screw at the last moment, with the box closed and equipped
- Maximum load: Body: 30 kg/m², Cover: 10 kg/m²




NSYAEFTB

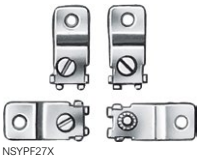
Supply:
4 lugs + screws, minor pack 1

Characteristics	Reference
Set of 4 fixing lugs	**NSYAEFTB**

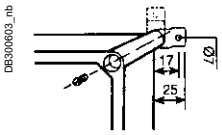
Wall Fixing Lugs

PLS


NSYPF27N


NSYPF27X

- Passivated zinc-coated steel
- Stainless-steel



Supply:
Set of 4 lugs and fixings

Characteristics	References
Wall fixing lug, passivated zinc-coated steel	**NSYPF27N**
Wall fixing lug, stainless-steel	**NSYPF27X**

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Fixing, Coupling and Composition Accessories

Wall Fixing Lugs

Fixing Lugs

PLM

Set of 4 wall fixing lugs. Mounted directly on the enclosure, either in horizontal position or in vertical position.

- Material: Polyamide reinforced with fiberglass or stainless-steel
- Color: RAL 7035 gray
- **Maximum load:**
  On PLM32: Vertical or horizontal: 10 kg
  Other PLM models: Vertical position: 200 kg, horizontal position: 100 kg

Supply:
Delivered with fixings



NSYPFXPLM

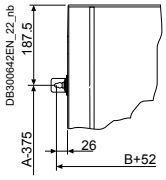
Characteristics	Reference
Wall fixing lugs	**NSYPFPLMG**
Wall fixing lugs, exclusively for enclosures ref. NSYPLM32G and NSYPLM32TG	**NSYPFPLM32G**
Stainless-steel wall fixing lugs	**NSYPFXPLM**

PLA

Drilling positions and marks inside the side panels.

- Material: Passivated zinc-coated steel
- Maximum load: 180 kg including weight of enclosure

Fixing: Fixing on the sides by four or six lugs in horizontal position
(six lugs for enclosures with height ≥ 1000 mm)
10 mm fixing distance on the rear of the enclosure plane



Supply:
Set of six lugs and fixings



NSYFMPLA

Characteristics	References
Wall fixing lugs	**NSYFMPLA**

Wall Fixing Support

PHD

- Wall fixing support for polyester outdoor Heavy-Duty enclosure.
- No change in ingress protection rate.
- Maximum load per enclosure: 180 kg
- Material: Zinc-coated steel
- Finish: Zinc painting



Supply:
6



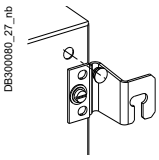
NSYFMPHD

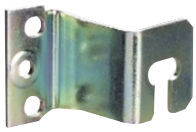
Characteristics	References
Wall fixing support	**NSYFMPHD**

Wall Fixing Lugs with Wall-Enclosure Separation

S3D

- Set of 4 wall fixing lugs.
- Separation of 40 mm from the wall at the rear of the enclosure.
- Requires a drilled hole to help prevent rotation.
- Material: Passivated zinc-coated steel
- Maximum load: 100 kg



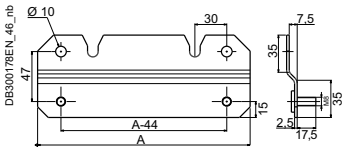


NSYAEFPF40SC

Characteristics	References
Wall fixing lugs with wall-enclosure separation	**NSYAEFPF40SC**

Full-Width Wall Fixing Lugs

S3D



- Kit made of 2 parts (top and bottom).
- Screwed from the inside.
- Material: Passivated zinc-coated steel
- Maximum load: 350 kg

Comment:
For more information see page 529



NSYAEFPFS3DW40

Characteristics	Width (mm)	A (mm)	References
Heavy load reinforcement	400	395	**NSYAEFPFS3DW40**
Heavy load reinforcement	600	595	**NSYAEFPFS3DW60**
Heavy load reinforcement	800	795	**NSYAEFPFS3DW80**
Heavy load reinforcement	1000	-	**NSYAEFPFS3DW100**

Kit For Heavy Loads

S3D

- Set of 2 reinforcement pieces.
- To be mounted before installing the mounting plate in top position with the standard lugs (to be ordered separately).
- This kit is mandatory for wall-mounted enclosures bigger than 800 x 800 mm.
- Material: Passivated zinc-coated steel
- Maximum load: 400 kg



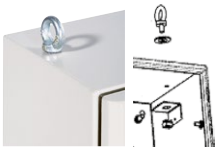
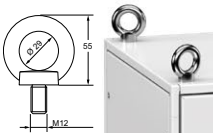
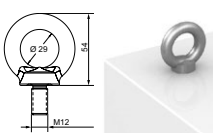
Characteristics	References
Kit for heavy loads	**NSYAEFAHLBSC**

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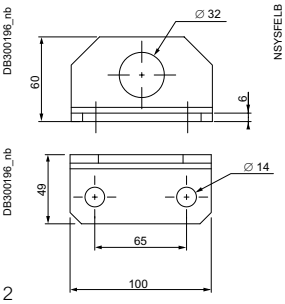
Fixing, Coupling and Composition Accessories

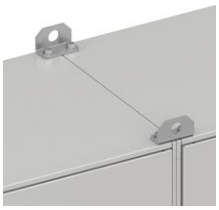
Lifting Accessories

Eyebolts

NSYAELYTCRG8	NSYAELYTCRXG8	NSYSFEB	NSYSMEB	NSYSMXEB	NSYPLHD
					
CRN S3D	CRN S3D S3X	SFN MCC	SM	SMX SFX	PHD
• Set of two M8 eyebolts. They are fixed directly to the body of the floor-standing enclosure. Cannot be installed with the canopy in place or if it is planned to put one. • Material: Zinc-coated molded steel. • Maximum load: 200 kg per enclosure when slinging at 60°.	• Material: Stainless-steel 304L. • Maximum load: 210 kg per enclosure when slinging at 60°. • Supply reinforcing brackets attached to therings (these brackets also act as a drilling template).	• Set of M12 lifting eyebolts, which screw directly into the structure of the enclosure, in the axis of the uprights. • Material: Galvanized cast steel. • Maximum load: 1360 kg at 90° using 4 units (340 kg at 90° per unit). • Maximum amount of assembled enclosures to be lifted: 1.	• Set of M12 lifting eyebolts, fixed to the enclosure by fixing nuts. • Material: Galvanized cast steel. • Maximum load: 1360 kg at 90° using 4 units (340kg at 90° per unit) • Maximum amount of assembled enclosures to be lifted: 1.	• Material: Stainless-steel 304L. • Installation: By the fixing nuts supplied. • Maximum load: 340 kg for 1 eyebolt in vertical direction.	• Top lifting accessory for polyester outdoor Heavy-Duty enclosure. • Maximum load per enclosure: 500 kg. • Material: Galvanized cast steel.

Lifting Brackets





SFN MCC

- Set of lifting and transport brackets, fixed to the structure between two coupled enclosures, in the axis of the uprights.
- Material: Zinc-coated steel
- Maximum load: 500 kg at 90° per unit
- Maximum amount of assembled enclosures to be lifted with 2 brackets: 2

Supply:
4 brackets and fixing elements (M12 screws)



NSYSFELB

Characteristics	Enclosures to be lifted	Max. load (kg)	References
Lifting brackets	2	500	**NSYSFELB**

SFX



NSYPUNX

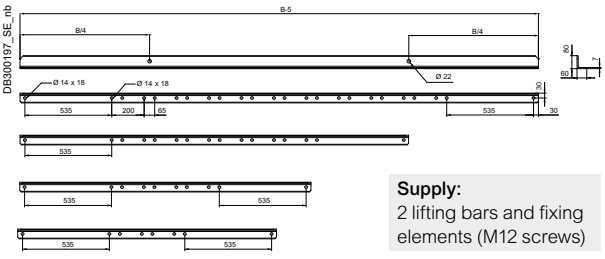
- Material: Treated steel
- Installation: They are fixed instead of the eyebolts on two suitable enclosures side-by-side, helping guarantee the rigidity of the enclosure when lifted
- Maximum load: 1300 kg when slinging at 60°

Supply:
Set of four lifting brackets

Characteristics	References
Lifting bracket	**NSYPUNX**

Lifting Bar for SFN

SFN



- Set of bars for lifting and transporting enclosures suites.
- They are fixed to the structure of the enclosure, in the axis of the uprights.
- Material: Zinc-plated steel

Supply:
2 lifting bars and fixing elements (M12 screws)



NSYSFTB16

Characteristics	B - Length (mm)	Enclosures to be lifted	Max. load (kg)	References
Lifting bar	1600	2	2000	**NSYSFTB16**
Lifting bar	1800	3	3000	**NSYSFTB18**
Lifting bar	2400	4	3000	**NSYSFTB24**
Lifting bar	3200	5	4000	**NSYSFTB32**

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Fixing, Coupling and Composition Accessories

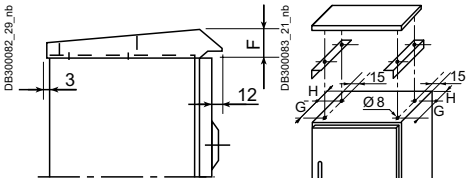
Canopy

Roof Canopy

CRN S3D



NSYTJ2015



- Direct fixing to the body of the enclosure by 4 M6 screws.
- Material: galvanized steel
- Finish: Epoxy-polyester paint
- Color: RAL 7035 gray

Supply:
Delivered with the fixings required for installation

Characteristics	Width (mm)	Depth (mm)	F (mm)	G (mm)	H (mm)	References
Roof canopy	200	150	36	75	23	**NSYTJ2015**
Roof canopy	300	150	36	75	23	**NSYTJ3015**
Roof canopy	400	150	36	75	23	**NSYTJ4015**
Roof canopy	500	200	36	130	23	**NSYTJ5020**
Roof canopy	600	200	36	130	23	**NSYTJ6020**
Roof canopy	300	200	36	130	23	**NSYTJ3020**
Roof canopy	400	200	36	130	23	**NSYTJ4020**
Roof canopy	400	250	42	150	48	**NSYTJ4025**
Roof canopy	500	250	42	150	48	**NSYTJ5025**
Roof canopy	600	250	42	150	48	**NSYTJ6025**
Roof canopy	800	250	42	150	48	**NSYTJ8025**
Roof canopy	600	300	42	200	48	**NSYTJ6030**
Roof canopy	800	300	42	200	48	**NSYTJ8030**
Roof canopy	1000	300	42	200	48	**NSYTJ10030**
Roof canopy	1200	300	42	200	48	**NSYTJ12030**
Roof canopy	600	400	42	300	48	**NSYTJ6040**
Roof canopy	800	400	42	300	48	**NSYTJ8040**
Roof canopy	1000	400	42	300	48	**NSYTJ10040**
Roof canopy	1200	400	42	300	48	**NSYTJ12040**

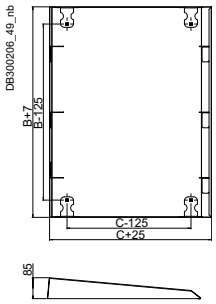
Roof Canopy

SM SFN



NSYSC630

- Provides excellent protection against splashes from rainwater.
- Canopy cannot be used together with lifting fixtures.
- PanelSeT SFN: It is possible to use a single canopy with combinations of modular enclosures (example: one 1600-mm canopy with two coupled 800-mm enclosures).
- Material: Galvanized steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray



Fixing:
PanelSeT SFN: Fixing by holes to be made in the roof of the enclosure
PanelSeT SM: Fixing by holes already made in the roof

Supply:
One canopy, drilling template and fixing elements

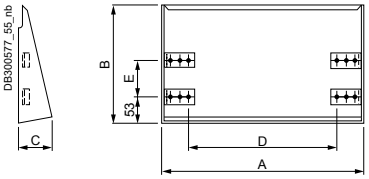
Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Roof canopy	600	300	**NSYSC630**
Roof canopy	600	400	**NSYSC640**
Roof canopy	600	600	**NSYSC660**
Roof canopy	800	300	**NSYSC830**
Roof canopy	800	400	**NSYSC840**
Roof canopy	800	500	**NSYSC850**
Roof canopy	800	600	**NSYSC860**
Roof canopy	1000	300	**NSYSC1030**
Roof canopy	1000	400	**NSYSC1040**
Roof canopy	1000	500	**NSYSC1050**
Roof canopy	1000	600	**NSYSC1060**
Roof canopy	1200	300	**NSYSC1230**
Roof canopy	1200	400	**NSYSC1240**
Roof canopy	1200	500	**NSYSC1250**
Roof canopy	1200	600	**NSYSC1260**
Roof canopy	1600	400	**NSYSC1640**
Roof canopy	1600	500	**NSYSC1650**

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Fixing, Coupling and Composition Accessories

Canopy

Roof Canopy



S3X

- Material: 304L stainless-steel sheet
- Finish: Scotch-Brite® brushed
- Thickness: 15/10e mm
- Installation: Direct fixing to the body of the enclosure

Supply:
Delivered with the fixings required for installation


NSYTX2015

Characteristics	Width (mm)	Depth (mm)	Dimensions (mm)					References
			A	B	C	D	E	
Roof canopy	200	150	205	183	51	120	-	**NSYTX2015**
Roof canopy	250	150	205	183	51	120	-	**NSYTX2515**
Roof canopy	300	150	305	183	51	220	-	**NSYTX3015**
Roof canopy	300	200	305	233	51	220	70	**NSYTX3020**
Roof canopy	400	200	405	233	70	320	70	**NSYTX4020**
Roof canopy	600	200	605	233	70	520	70	**NSYTX6020**
Roof canopy	600	250	605	283	70	520	120	**NSYTX6025**
Roof canopy	1000	300	1005	333	70	920	170	**NSYTX10030**
Roof canopy	1200	300	1205	333	70	1120	120	**NSYTX12030**
Roof canopy	500	250	505	283	70	420	120	**NSYTX5025**
Roof canopy	800	300	805	333	70	720	170	**NSYTX8030**

SMX

- Helps guarantee very high protection of the enclosure when used outdoors.
- Material: 304L stainless-steel sheet
  Other types of stainless-steel, contact us
- Finish: Scotch-Brite® brushed
- Other finishes, contact us
- Thickness 15/10e
- Installation: It is fixed in the same holes as the eyebolt.

Supply:
Delivered with fixings. Other dimensions and canopy for sets, contact us


NSYSCMX10030

Characteristics	Width (mm)	Depth (mm)	References
Roof canopy	800	400	**NSYSCMX8040**
Roof canopy	800	500	**NSYSCMX8050**
Roof canopy	1000	300	**NSYSCMX10030**
Roof canopy	1000	400	**NSYSCMX10040**
Roof canopy	1200	400	**NSYSCMX12040**
Roof canopy	1600	400	**NSYSCMX16040**
Roof canopy	1600	600	**NSYSCMX16060**

SFX

Supply:
Delivered with fixings. Other dimensions and canopy for sets, contact us


NSYSCX6040

Characteristics	Width (mm)	Depth (mm)	References
Roof canopy	600	400	**NSYSCX6040**
Roof canopy	800	400	**NSYSCX8040**
Roof canopy	800	600	**NSYSCX8060**
Roof canopy	1000	600	**NSYSCX10060**
Roof canopy	1200	400	**NSYSCX12040**
Roof canopy	1200	600	**NSYSCX12060**
Roof canopy (used when coupling 2 SFX together)	1200	500	**NSYSCX12050**
Roof canopy (used when coupling 2 SFX together)	1600	400	**NSYSCX16040**
Roof canopy (used when coupling 2 SFX together)	1600	600	**NSYSCX16060**

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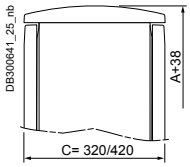
Fixing, Coupling and Composition Accessories

Canopy

Roof Canopy

PLA

- Can be installed in all enclosure models.
- High resistance to impacts, temperature and bad weather.
- Increases the height (A) of the enclosure by 38 mm without modifying its width or depth.
- Material: Polyester reinforced with fiberglass
- Color: RAL 7035 gray
- Installation: Essential for outdoor use



Supply:
Delivered with the fixings required for installation

NSYTJPLA53G

Characteristics	Width (mm)	Depth (mm)	References
Roof canopy	500	320	**NSYTJPLA53G**
Roof canopy	500	420	**NSYTJPLA54G**
Roof canopy	750	320	**NSYTJPLA73G**
Roof canopy	750	420	**NSYTJPLA74G**
Roof canopy	750	620	**NSYTJPLA76G**
Roof canopy	1000	320	**NSYTJPLA103G**
Roof canopy	1000	420	**NSYTJPLA104G**
Roof canopy	1250	320	**NSYTJPLA123G**
Roof canopy	1250	420	**NSYTJPLA124G**
Roof canopy	1250	620	**NSYTJPLA126G**

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Fixing, Coupling and Composition Accessories

Fixing Support

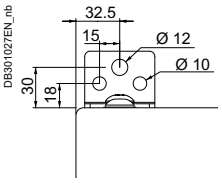
Wall Fixing Support

SFN



NSYSFWFIX

- Supports for fixing the enclosure on the wall and helping prevent it from turning over.
- They cannot be used for hanging the enclosure.
- They are installed using the roof mounting screws.
- Material: Zinc-coated steel sheet



Supply:
2 supports

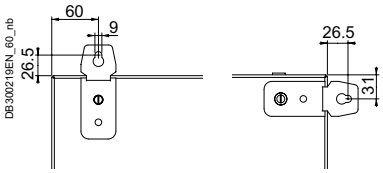
Characteristics	References
Wall fixing support	**NSYSFWFIX**

SM



NSYSMWFIX

- Supports for fixing the enclosure on the wall and helping prevent it from turning over.
- They are installed using the drill holes in the back of the enclosure.
- Mounted directly on the rear of the enclosure, either in horizontal or vertical position
- Material: Zinc-coated steel sheet



Supply:
2 supports

Characteristics	References
Wall fixing support	**NSYSMWFIX**

Fixing Brackets



NSYMPBSD

- Set of 4 fixing brackets.
- Depth adjustment on 25 mm pitch.
- Included as standard with desk (all versions).
- To be ordered separately when required for installation of two back-to-back mounting plates in control desks with rear access.
- Material: Galvanized steel
- Thickness: 40/10[e] mm
- Maximum load: 250 kg

Characteristics	References
Fixing brackets	**NSYMPBSD**

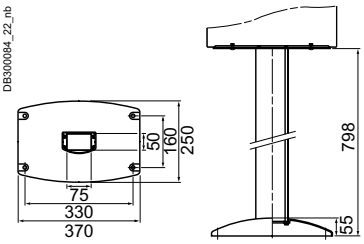
Support Pillar

CRN S3D



NSYCOCN80

- The support pillar is fixed directly to the bottom face of the PanelSeT steel enclosure by means of an adapter plate.
- The adapter plate, to be ordered in addition to the pillar, replaces the cable gland plate.
- Overall height of the support foot: 800 mm.
- Mounting possible on all enclosures with dimensions up to 600 x 400 x 250 mm (except 200 x 200 x 150 mm and 250 x 200 x 150 mm enclosures).
- Material: Extruded aluminum
- Finish: Epoxy polyester paint
- Color: RAL 7035 gray



Characteristics	Height (mm)	References
Support pillar	800	**NSYCOCN80**

Support Pillar Adaptation Plate

S3D



NSYAEFP42S3D

- Description: Plate for fixing the support pillar on the enclosure.
- This plate replaces the cable gland plate delivered with the enclosure.
- Material: Steel
- Finish: Polyester powder
- Color: RAL 7035 gray

Characteristics	For enclosure width (mm)	For enclosure depth (mm)	References
Support pillar adaptation plate	400	200-250	**NSYAEFP42S3D**

Support Bracket for Enclosure with Anti-Tilt Kit and Reinforcement

CRN S3D S3X PLM S3HF



NSYCOCNS1400

- The support bracket is used when the enclosure cannot be hung from a wall or a post.
- Maximum enclosure dimensions: 1000 x 800 x 300 mm.
- Floor attachment by standard M12 fastenings.
- Material: Steel
- Finish: Epoxy polyester paint
- Color: RAL 7035 gray
- Maximum load: 120 kg

Characteristics	Height (mm)	References
Support bracket for enclosure with anti-tilt kit and reinforcement	1400	**NSYCOCNS1400**
Support bracket for enclosure with anti-tilt kit and reinforcement	1800	**NSYCOCNS1800**

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Fixing, Coupling and Composition Accessories

Post Mounting

Post Fixing Device

SBM CRN S3D PLM

For CRN, S3D and SBM

- For indoor installations on posts with a maximum circumference of 675 mm (minimum diameter 150 mm and maximum diameter 215 mm).
- Material: Zinc-plated steel
- Rail mounted externally to the rear of the box with 8 mm screws for installation on posts with diameters between 150 mm and 215 mm.
- For steel boxes with widths of 150, 200, 300, 400, 500, 600 and 800 mm.
- Maximum load: 100 kg

For PLM:

- For outdoor installations on a post with a maximum circumference of 675 mm, Ø 215 mm.
- Support material: Steel with C4H treatment
- Maximum load: 100 kg
- Strap material: Stainless-steel
- C5H/C6H resistances available via customization services

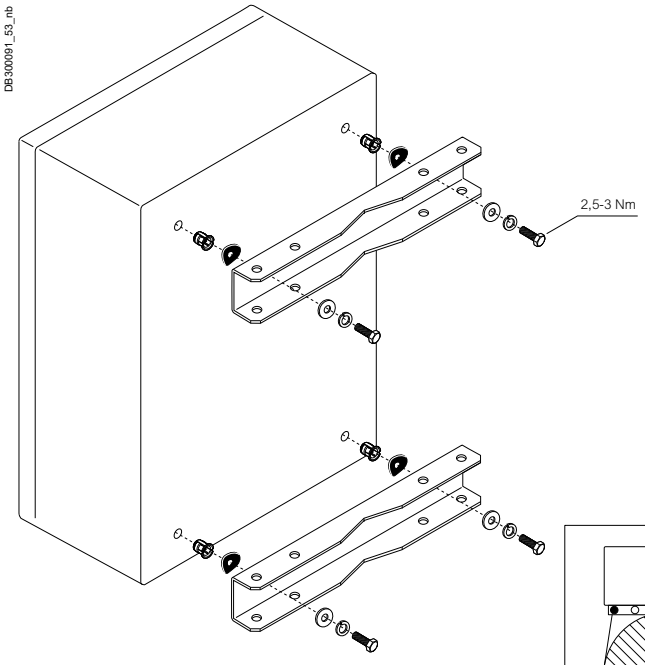
Supply:
2 pieces

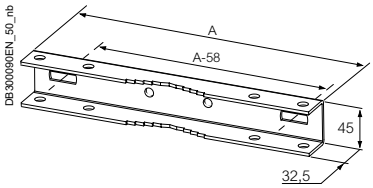


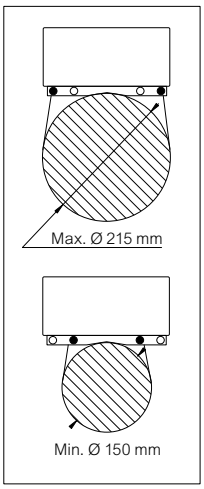
NSYSFPSC30

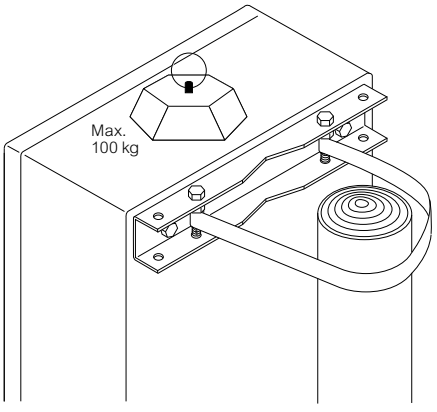


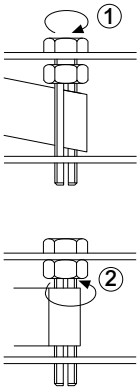
Characteristics	A (mm)	Height (mm)	Width (mm)	References
Post mounting	295	45	300	**NSYSFPSC30**
Post mounting	395	45	400	**NSYSFPSC40**
Post mounting	495	45	500	**NSYSFPSC50**
Post mounting	595	45	600	**NSYSFPSC60**
Post mounting	795	45	800	**NSYSFPSC80**
Post mounting	295	45	300	**NSYSFP300**
Post mounting	395	45	400	**NSYSFP400**
Post mounting	495	45	500	**NSYSFP500**
Post mounting	595	45	600	**NSYSFP600**











6

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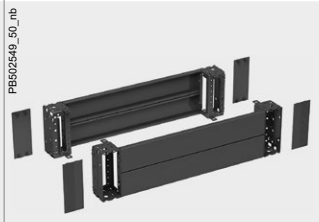
Fixing, Coupling and Composition Accessories

Plinths

Plinth as a Kit

The complete plinth consists of two elements, one is the front and rear kit, determined by the width of the enclosure, and the other consists of the side panels which determine the depth of the enclosure. The number of side panels required depends on the plinth combination.

- Robust design.
- The modular plinth system makes it possible to reduce the number of references in stock.

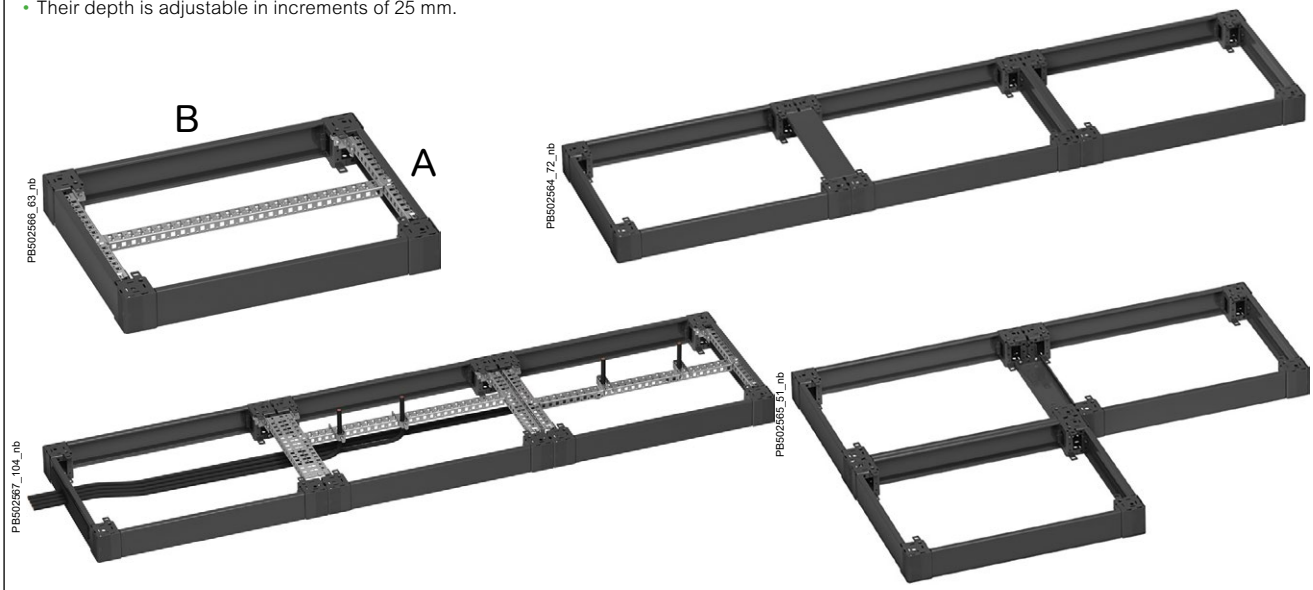
Characteristics	Front and rear kit	Side panels	Complete plinth
Plinth height 100 mm			
Plinth height 200 mm			

Floor

Examples of Solutions

Plinth Cross-Rail Fixed in Position B, Requires 2 Cross-Rails Fixed in Position A.

- They are fixed to the plinth cross-rails, both the universal and the quick-fixing types.
- Their depth is adjustable in increments of 25 mm.



Comment: Universal and quick-fixing cross-rail references, page 493

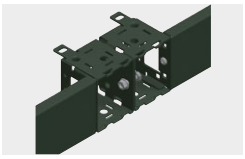
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Fixing, Coupling and Composition Accessories

Plinths

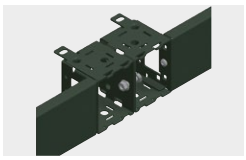
Possibility of Joining Plinths

PB500545_35_nb

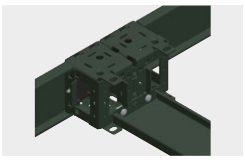


The surfaces between corners are always in contact.
They are joined by a M8 screw and nut, not included in the standard supply.
- Longitudinally free space for passing cables
- Greater rigidity of the resulting assembly unit

PB500545_35_nb

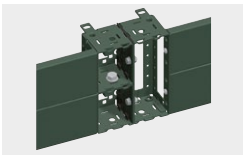


PB500547_35_nb



Side panels
are secured by M6 screws and caged nuts, not included in the standard supply, reference **NSYSPM6** and reference **NSYCN9M625**, which can be mounted above and/or below.
- Improves rigidity in the depthwise direction during transport

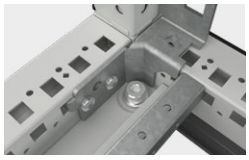
PB500548_35_nb



Vertical plinth assembly
are secured by means of M12 screws and nuts, not included in the standard supply.

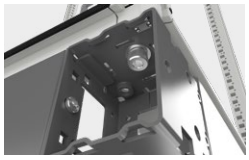
Possibility of Fixing the Enclosure to the Plinth

PB500549_38_nb



Fixing from the inside of the enclosure
by means of an M12 screw, screwing directly into the corner of the plinth.
- Fixing convenience and speed

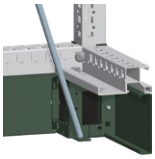
PB500550_36_nb



Fixing from the outside of the enclosure
with a M12 screw, screwing directly onto the vertical upright.
- Maximum rigidity of the enclosure-plinth assembly

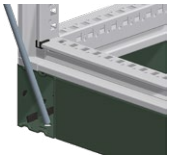
Options to Fix the Plinth to the Floor

PB500551_22_NB



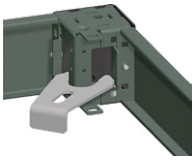
Fixing from the inside of the enclosure.
The machining angle varies according to the plinth model:
- Plinth height 100 mm φ = 18°.
- Plinth height 200 mm φ = 9°.

PB500552_27_NB



Fixing from the outside of the enclosure, optimal point for the rigidity of the assembly.
The machining angle varies according to the plinth model:
- Plinth height 100 mm φ = 22°.
- Plinth height 200 mm φ = 11°.

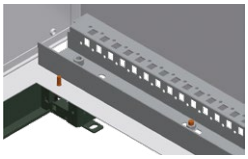
NSYSGF_nb



Floor-fixing supports can be used as well.
Brackets **NSYSGF** for fixing plinth to the floor if the drillholes made in the plinth cannot be used.
It can be to the corner, or between corner and panel.

Fixing the Enclosure to the Plinth

PB500555_33_NB



Fixing from the inside of the enclosure
by means of a M12 screw, screwing directly into the corner of the plinth
- Fixing convenience and speed.

Fixing the Enclosure Against a Wall

PB500555_33_NB



Enclosure against a wall.
Thanks to the design of the corners, when the enclosure is installed against the wall, the external fixing point can still be accessible by removing the plinth side panels and turning the back corners.

Assembly of the Plinth Panels

PB500556_23_NB



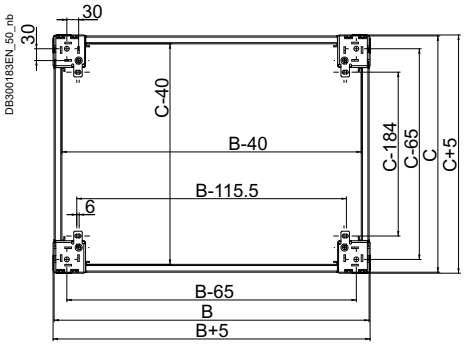
The panels are fixed with an M6 screw to the corner included in the standard supply of the side panels.
- The front and rear panels are delivered with the corners mounted.

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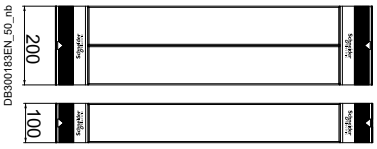
Fixing, Coupling and Composition Accessories

Plinths

Front and Rear Plinths



B: Width
C: Height



Installation:
It is necessary to order separately the plinth fixing kit (ref. **NSYAPFWM**) composed by fixing hardware and drilling jig.

Note:
For more information see **page 530**

Supply:
Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements
Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements

CRN S3D SM SFN MCC SFN PC SD SFN IT

- The front and rear of the plinth consists of 4 corners with 2 or 4 panels.
- Material: Folded sheet steel, corner with a thickness of 25/10e mm
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7022 gray
- Ingress protection rating: IP20 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262


NSYSPF3100


NSYSPF3200

Characteristics	Width (mm)	Height (mm)	References
Front and rear plinths	300	100	**NSYSPF3100**
Front and rear plinths	400	100	**NSYSPF4100**
Front and rear plinths	600	100	**NSYSPF6100**
Front and rear plinths	800	100	**NSYSPF8100**
Front and rear plinths	1000	100	**NSYSPF10100**
Front and rear plinths	1200	100	**NSYSPF12100**
Front and rear plinths	1600	100	**NSYSPF16100**
Front and rear plinths	300	200	**NSYSPF3200**
Front and rear plinths	400	200	**NSYSPF4200**
Front and rear plinths	600	200	**NSYSPF6200**
Front and rear plinths	800	200	**NSYSPF8200**
Front and rear plinths	1000	200	**NSYSPF10200**
Front and rear plinths	1200	200	**NSYSPF12200**
Front and rear plinths	1600	200	**NSYSPF16200**

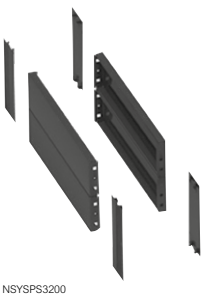
Plinth side panels

CRN S3D SM SFN MCC SFN PC SD SFN IT

- They are fixed to the corner of the plinth by 2 fixing screws.
- Material: Folded sheet steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7022 gray
- Ingress protection rating: IP20 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 2 side panels, 4 corner covers and fixing elements
Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements


NSYSPS3100


NSYSPS3200

Characteristics	Depth (mm)	Height (mm)	References
Side plinths	300	100	**NSYSPS3100SD**
Side plinths	300	100	**NSYSPS3100**
Side plinths	400	100	**NSYSPS4100SD**
Side plinths	400	100	**NSYSPS4100**
Side plinths	500	100	**NSYSPS5100**
Side plinths	500	100	**NSYSPS5100SD**
Side plinths	600	100	**NSYSPS6100**
Side plinths	600	100	**NSYSPS6100SD**
Side plinths	800	100	**NSYSPS8100**
Side plinths	1000	100	**NSYSPS10100**
Side plinths	300	200	**NSYSPS3200SD**
Side plinths	300	200	**NSYSPS3200**
Side plinths	400	200	**NSYSPS4200SD**
Side plinths	400	200	**NSYSPS4200**
Side plinths	500	200	**NSYSPS5200**
Side plinths	500	200	**NSYSPS5200SD**
Side plinths	600	200	**NSYSPS6200**
Side plinths	600	200	**NSYSPS6200SD**
Side plinths	800	200	**NSYSPS8200**

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Fixing, Coupling and Composition Accessories

Plinths

Stainless-Steel Plinths

- Material: Stainless-steel, AISI 304L or AISI 316L
- Finish: Scotch-Brite® brushing, to help guarantee the durability in application where the contact with the floor increases the risk of corrosion
- Installation: Plinth fixing kit must be ordered separately (ref. NSYAPFXWM) composed by fixing elements and drilling jig

CRN S3D SM SFN S3X SMX SFX SD S3HD SFN HD



NSYSPFX10100

Characteristics	W (mm)	H (mm)	References
Plinth H 100 mm, Kit (4 corners + front and back), AISI 304L	600	100	**NSYSPFX6100**
Plinth H 100 mm, Kit (4 corners + front and back), AISI 304L	800	100	**NSYSPFX8100**
Plinth H 100 mm, Kit (4 corners + front and back), AISI 304L	1000	100	**NSYSPFX10100**
Plinth H 100 mm, Kit (4 corners + front and back), AISI 304L	1200	100	**NSYSPFX12100**
Plinth H 100 mm, Kit (4 corners + front and back), AISI 304L	1600	100	**NSYSPFX16100**
Plinth H 100 mm, Kit (4 corners + front and back), AISI 316L	600	100	**NSYSPFX6100H**
Plinth H 100 mm, Kit (4 corners + front and back), AISI 316L	800	100	**NSYSPFX8100H**
Plinth H 100 mm, Kit (4 corners + front and back), AISI 316L	1000	100	**NSYSPFX10100H**
Plinth H 100 mm, Kit (4 corners + front and back), AISI 316L	1200	100	**NSYSPFX12100H**
Plinth H 100 mm, Kit (4 corners + front and back), AISI 316L	1600	100	**NSYSPFX16100H**

CRN S3D SM SFN S3X SMX SFX SD S3HD SFN HD



NSYSPSX3100

Characteristics	D (mm)	H (mm)	References
Plinth H 100 mm, Set of 2 side panels, AISI 304L	300	100	**NSYSPSX3100**
Plinth H 100 mm, Set of 2 side panels, AISI 304L	400	100	**NSYSPSX4100**
Plinth H 100 mm, Set of 2 side panels, AISI 304L	400	100	**NSYSPSX4100SF**
Plinth H 100 mm, Set of 2 side panels, AISI 304L	500	100	**NSYSPSX5100**
Plinth H 100 mm, Set of 2 side panels, AISI 304L	500	100	**NSYSPSX5100SF**
Plinth H 100 mm, Set of 2 side panels, AISI 304L	600	100	**NSYSPSX6100**
Plinth H 100 mm, Set of 2 side panels, AISI 304L	600	100	**NSYSPSX6100SF**
Plinth H 100 mm, Set of 2 side panels, AISI 316L	300	100	**NSYSPSX3100H**
Plinth H 100 mm, Set of 2 side panels, AISI 316L	400	100	**NSYSPSX4100H**
Plinth H 100 mm, Set of 2 side panels, AISI 316L	500	100	**NSYSPSX5100H**
Plinth H 100 mm, Set of 2 side panels, AISI 316L	600	100	**NSYSPSX6100H**

CRN S3D SM SFN S3X SMX SFX SD S3HD SFN HD



NSYSPFX8200

Characteristics	W (mm)	H (mm)	References
Plinth H 200 mm, Kit (4 corners + front and back), AISI 304L	600	200	**NSYSPFX6200**
Plinth H 200 mm, Kit (4 corners + front and back), AISI 304L	800	200	**NSYSPFX8200**
Plinth H 200 mm, Kit (4 corners + front and back), AISI 304L	1000	200	**NSYSPFX10200**
Plinth H 200 mm, Kit (4 corners + front and back), AISI 304L	1200	200	**NSYSPFX12200**
Plinth H 200 mm, Kit (4 corners + front and back), AISI 304L	1600	200	**NSYSPFX16200**
Plinth H 200 mm, Kit (4 corners + front and back) AISI 316L	600	200	**NSYSPFX6200H**
Plinth H 200 mm, Kit (4 corners + front and back), AISI 316L	800	200	**NSYSPFX8200H**
Plinth H 200 mm, Kit (4 corners + front and back), AISI 316L	1000	200	**NSYSPFX10200H**
Plinth H 200 mm, Kit (4 corners + front and back), AISI 316L	1200	200	**NSYSPFX12200H**
Plinth H 200 mm, Kit (4 corners + front and back), AISI 316L	1600	200	**NSYSPFX16200H**

CRN S3D SM SFN S3X SMX SFX SD S3HD SFN HD



NSYSPSX3200

Characteristics	D (mm)	H (mm)	References
Plinth H 200 mm, Set of 2 side panels (x2), AISI 304L	300	200	**NSYSPSX3200**
Plinth H 200 mm, Set of 2 side panels (x2), AISI 304L	400	200	**NSYSPSX4200**
Plinth H 200 mm, Set of 2 side panels (x2), AISI 304L	400	200	**NSYSPSX4200SF**
Plinth H 200 mm, Set of 2 side panels (x2), AISI 304L	500	200	**NSYSPSX5200**
Plinth H 200 mm, Set of 2 side panels (x2), AISI 304L	500	200	**NSYSPSX5200SF**
Plinth H 200 mm, Set of 2 side panels (x2), AISI 304L	600	200	**NSYSPSX6200**
Plinth H 200 mm, Set of 2 side panels (x2), AISI 304L	600	200	**NSYSPSX6200SF**
Plinth H 200 mm, Set of 2 side panels (x2), AISI 316L	300	200	**NSYSPSX3200H**
Plinth H 200 mm, Set of 2 side panels (x2), AISI 316L	400	200	**NSYSPSX4200H**
Plinth H 200 mm, Set of 2 side panels (x2), AISI 316L	500	200	**NSYSPSX5200H**
Plinth H 200 mm, Set of 2 side panels (x2), AISI 316L	600	200	**NSYSPSX6200H**

Stainless-steel plinths (standard plinths page 533, ventilated plinths page 534) are compatible with steel floor-standing enclosure SM and SFN using an earthing cable section 6 mm², length 220 mm, eyelet hole 13 mm. Not included in the delivery of the plinths.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fixing, Coupling and Composition Accessories

Plinths

Ventilated Plinths, Front and Rear Kit

S3HD SFN HD

- The front and rear of the plinth consists of 4 corners with 2 panels.

Supply:
1 kit



NSYSPFVX6200

Characteristics	Width (mm)	References
Ventilated plinths, front and rear kit	600	**NSYSPFVX6200**
Ventilated plinths, front and rear kit	800	**NSYSPFVX8200**
Ventilated plinths, front and rear kit	1200	**NSYSPFVX12200**

Ventilated Plinths, Lateral Kit

S3HD SFN HD

- They are fixed to the corner of the plinth by fixing screws.

Supply:
1 kit



NSYSPLVX4200SF

Characteristics	Depth (mm)	References
Ventilated plinths, for floor-standing enclosure	430	**NSYSPLVX4200SF**
Ventilated plinths, for floor-standing enclosure	630	**NSYSPLVX6200SF**

Ventilated Front Plinth

SM SFN SFN IT

- The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.
- Material: Folded sheet steel, corner with a thickness of 25/10^{e} mm
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7022 gray
- Ingress protection rating: IP20 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements



NSYSPFV6100

Characteristics	Height (mm)	Width (mm)	References
Ventilated front plinth	100	600	**NSYSPFV6100**
Ventilated front plinth	100	800	**NSYSPFV8100**

Ventilated Side Panels

SM SFN SFN IT

- They are fixed to the corner of the plinth by fixing screws.
- Material: Folded sheet steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7022 gray
- Ingress protection rating: IP20 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements

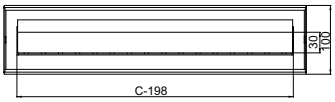


NSYSPV6100

Characteristics	Height (mm)	Depth (mm)	References
Ventilated side panels	100	600	**NSYSPV6100**
Ventilated side panels	100	800	**NSYSPV8100**

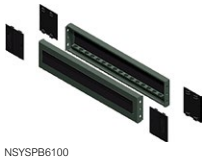
Panels with Brush

SM SFN



- They allow the entry and fixing of cables inside the enclosure, through the plinth.
- Material: Folded sheet steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7022 gray
- Ingress protection rating: IP20 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 2 panels with brushes, 4 corner covers and fixing elements



NSYSPB6100

Characteristics	Height (mm)	Depth (mm)	References
Panels with brush	100	600	**NSYSPB6100**
Panels with brush	100	800	**NSYSPB8100**

6

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fixing, Coupling and Composition Accessories

Plinths

Plinths

PLM

- Designed to support and raise enclosures NSYPLM75G, NSYPLM86G and NSYPLM108G.
- Plinth height of 200 mm; stackable to obtain a 400 mm plinth.
- Four floor attachment points; symmetry of the parts helps prevent incorrect assembly.
- The front parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws make it possible (using an Allen key) to open and remove the front parts for easier cable installation. In stacked position, the bottom plinth can be partially buried. It is provided with one transverse reinforcement rail, adjustable to adapt to the position of the cables. The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths.
- Material: Polyester reinforced with fiberglass, molded by hot compression
- Ingress protection rating: IP44
- Mechanical protection rating: IK10
- Standards: Helps guarantee full insulation according to IEC 61439-1

PB502788_26_nb PB502772_25_nb



Characteristics	PLM enclosure	Height (mm)	Width (mm)	Depth (mm)	Reference
Plinth	NSYPLM75G	200	456	302	**NSYZM253G**
Plinth	NSYPLM86G	200	556	302	**NSYZM263G**
Plinth	NSYPLM108G	200	772	352	**NSYZM283G**

Kit for IP54

PLM



NSYAEPZM

Required to obtain IP54 for the plinth and the plinth enclosure coupling.

Characteristics	Reference
Kit for IP54	**NSYAEPZM**

Floor-Mounted Pillar

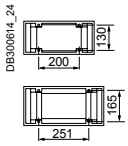
PLM

To help protect cables entering the enclosure in outdoor installations.
Cable entry section: 165 x 100 mm.
For enclosures ref. **NSYPLM54G**, **NSYPLM54TG**, **NSYPLM64G** and **NSYPLM64TG**.

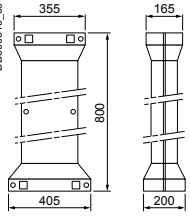


NSYSFSPLMG

DB300614_24



DB300615_30



- Material: Polyester reinforced with fiberglass
- Color: RAL 7035 gray

Supply:
Delivered with steel frame for secure fixing to the floor

Characteristics	Reference
Floor-mounted pillar	**NSYSFSPLMG**

6

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fixing, Coupling and Composition Accessories

Plinths

ZA Plinths

PLA PLAT

- The front parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws, which can be accessed from the outside, make it possible (using an Allen key) to open and remove the front parts for easier cable installation.
- In stacked position, the bottom plinth can be partially buried.
- It is provided with one or two reinforcement cross-rails, adjustable to adjust to the position of the cables.
- Material: Polyester reinforced with fiberglass
- Color: RAL 7035 gray
- Ingress protection rating: IP44
- Mechanical protection rating: IK10
- Fixing: Four floor attachment points; symmetry of the parts helps prevent incorrect assembly
- Supply: The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths

PB503709_nb
PB503696_nb



For floor-standing enclosure			Plinth		Cable gland area		Height 200 mm
W (mm)	D (mm)	References	W (mm)	D (mm)	W (mm)	D (mm)	References
500	320	**NSYPLA(T)●53G**	494	250	360	205	**NSYZA253G**
750	320	**NSYPLA(T)●73G**	744	250	610	205	**NSYZA273G**
1000	320	**NSYPLA(T)●103G**	994	250	860	205	**NSYZA2103G**
1250	320	**NSYPLA(T)●123G**	1244	250	1100	205	**NSYZA2123G**
500	420	**NSYPLA(T)●54G**	494	350	360	305	**NSYZA254G**
750	420	**NSYPLA(T)●74G**	744	350	610	305	**NSYZA274G**
1000	420	**NSYPLA(T)●104G**	994	350	860	305	**NSYZA2104G**
1250	420	**NSYPLA(T)●124G**	1244	350	1110	305	**NSYZA2124G**
750	620	**NSYPLA(T)●76G**	744	550	610	505	**NSYZA276G**
1250	620	**NSYPLA(T)●126G**	1244	550	1110	505	**NSYZA2126G**

ZZ Plinths

PLAZT PHD

- The front parts (front and rear) are removed from the inside. Removing them makes it easier to install the cables.
- The 500-mm plinth can be partially buried.
- It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.
- Material: Polyester reinforced with fiberglass
- Color: RAL 7035 gray
- Ingress protection rating: IP44
- Mechanical protection rating: IK10
- Fixing: Four floor attachment points; symmetry of the parts helps prevent incorrect assembly
- Supply: The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth

PB503698_nb
PB503697_nb



(1) For enclosures using ZZ or ZH type plinths the coupling kit to use is the **NSYMUPLA●●●W**.

For floor-standing enclosure			Plinth		Cable gland area		Height 200 mm	Height 500 mm
W (mm) (B)	D (mm) (C)	References	W (mm)	D (mm)	W (mm)	D (mm)	References	References
500	320	**NSYPLAZ(T)●53G**	535	310	419	252	**NSYZZ253G**	**NSYZZ553G**
750	320	**NSYPLAZ(T)●73G**	785	310	669	252	**NSYZZ273G**	**NSYZZ573G**
1000	320	**NSYPLAZ(T)●103G**	1035	310	919	252	**NSYZZ2103G**	**NSYZZ5103G**
1250	320	**NSYPLAZ(T)●123G**	1285	310	1169	252	**NSYZZ2123G**	**NSYZZ5123G**
500	420	**NSYPLAZ(T)●54G**	535	410	419	352	**NSYZZ254G**	**NSYZZ554G**
750	420	**NSYPLAZ(T)●74G**	785	410	669	352	**NSYZZ274G**	**NSYZZ574G**
1000	420	**NSYPLAZ(T)●104G**	1035	410	919	352	**NSYZZ2104G**	**NSYZZ5104G**
1250	420	**NSYPLAZ(T)●124G**	1285	410	1169	352	**NSYZZ2124G**	**NSYZZ5124G**
750	620	**NSYPLAZ(T)●76G**	785	610	669	552	**NSYZZ276G**	-
1250	620	**NSYPLAZ(T)●126G**	1285	610	1169	552	**NSYZZ2126G**	-

N Plinths

PLA PLAT

Designed to be installed under the closed bottom enclosures (version PLA or PLAT).

- Material: Polyester reinforced with fiberglass
- Color: RAL 7035 gray
- Height 60 mm

Supply:
Delivered with fixings required for installation



NSYZNPLA53G

Characteristics	References
N plinths	**NSYZNPLA53G**
N plinths	**NSYZNPLA73G**
N plinths	**NSYZNPLA103G**
N plinths	**NSYZNPLA123G**
N plinths	**NSYZNPLA54G**
N plinths	**NSYZNPLA74G**
N plinths	**NSYZNPLA104G**
N plinths	**NSYZNPLA124G**

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Fixing, Coupling and Composition Accessories

Plinths

Connectors Between Plinths

PLAT

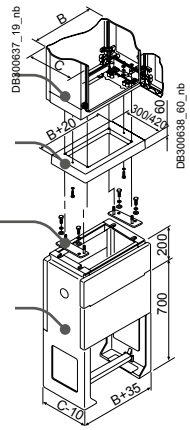
Description: Designed to allow the adaptation of a closed bottom enclosure + N plinth on a H-type partially buried plinth.

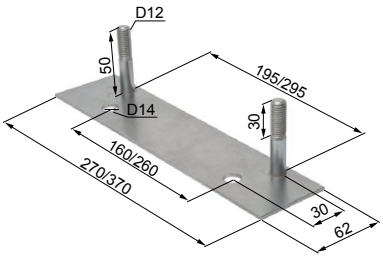
NSYPLA or **NSYPLAT** not for **NSYPLAZ●●●**

NSYZNPLA●●●

NSYAZ●●●

NSYZHPLA●●●





Supply:
Two parts for adapting the center-to-center distances.


NSYAZ3PLA

Characteristics	For floor-standing enclosure Depth (mm)	References
Linking parts for N plinth on 320 mm H plinth	320	**NSYAZ3PLA**
Linking parts for N plinth on 420 mm H plinth	420	**NSYAZ4PLA**

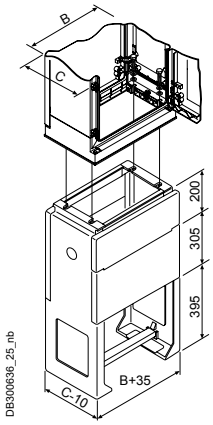
Buriable H Plinths

PLA


NSYZHPLA53G


NSYZHPLA53G

- Front panel with a height of 170 mm, retractable, providing easy access to the inside.
- Fixed front panel with a height of 305 mm, corresponding to the finished floor height area.
- The height above the floor after built-in varies between 200 and 500 mm.
- A metal rail helps to fix the entry cables.
- Lateral uprights with knock-out auxiliary output with Ø Pg 36 (48 mm).
- A knock-out area is provided at the bottom of the lateral uprights for cable entry, if necessary.
- Material: Polyester reinforced with fiberglass
- Color: RAL 7035 gray



Supply:
Delivered with the fixings required for installation

Characteristics	References
Buriable H plinths	**NSYZHPLA53G**
Buriable H plinths	**NSYZHPLA73G**
Buriable H plinths	**NSYZHPLA103G**
Buriable H plinths	**NSYZHPLA123G**
Buriable H plinths	**NSYZHPLA54G**
Buriable H plinths	**NSYZHPLA74G**
Buriable H plinths	**NSYZHPLA104G**
Buriable H plinths	**NSYZHPLA124G**

Outside Opening Kit

PLAZT

- Description: The 200 mm front part of the 200 and 500 mm plinths can be opened from the outside, after installing a set of two locks with double-bar insert.


NSYAELZ

Characteristics	References
Outside opening kit	**NSYAELZ**

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Fixing, Coupling and Composition Accessories

Accessories for Plinths

Feet for Partially Buried Installation

PLM PLA



Description: Allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Option of horizontal adjustment of the plinth.

Supply:
Kit includes four feet and fixings.

Characteristics	References
Feet for partially buried installation	**NSYAEBFZ**

Fixing to the Floor

SM SFN



NSYSGF

- Part for fixing the plinth to the floor if the drillholes made in the plinth cannot be used.
- Material: Steel
- Finish: Zinc-coated



NSYSGF_01_nb



NSYSGF_02_nb

Supply:
4 pieces, fixing element not supplied

Characteristics	References
Fixing to the floor	**NSYSGF**

Plinth Cross-Rail Support

SM SFN



NSYSPCR_nb

Comment:
Reference by unit Order by multiples of 12 (12, 24, 36…)



NSYSPCR

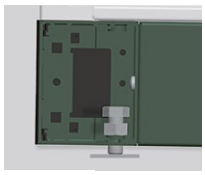
- Support for fixing a cross-rail inside the plinth.
- Material: Steel
- Finish: Zinc-coated

Supply:
12 pieces and fixing elements

Characteristics	References
Plinth cross-rail support, 100 mm	**NSYSPCR**

Fixing Options, Levelling the Plinth

SFN



NSYSPLK

- The plinth allows levelling by means of a M12 screw.

Characteristics	References
Levelling the plinth	**NSYSPLK**

6

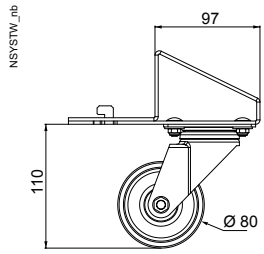
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Fixing, Coupling and Composition Accessories

Floor Fixing Accessories

Transport Casters

CRN | S3D | SM | SFN | SD





NSYSTW

- Quick installation on plinths with heights of 100 and 200 mm, except the plinth for enclosure sets.
- They can be installed in front or side position.
- Clipping and fixing to the corner by screws.
- For use on flat surfaces.
- Height: 110 mm.
- Maximum load: 200 kg per caster.

Supply:
4 transport casters
(2 with a blocking system)
and fixing elements

Characteristics	References
Transport casters	**NSYSTW**

Enclosure Casters

SM | SFN | SMX | SFX | SD



NSYSW

- Double casters.
- Height: 92 mm.
- Diameter: 64 mm.
- Maximum load:
  180 kg per caster
  720 kg when it is installed directly on the upright,
  400 kg when it is installed on the frame.

Supply:
4 casters and fixing elements

Characteristics	References
Enclosure casters	**NSYSW**

Levelling Feet

SM | SFN | SMX | SFX | SD



NSYSPSJ

- Height: 42 mm.
- Material: Steel.
- Maximum load: 400 kg per foot.

Supply:
Set of 4 floor feet

Characteristics	References
Levelling feet fixed	**NSYSPSJ**

Levelling Feet

SM | SFN | SMX | SFX | SD



NSYSPRJ

- Height: 22 mm.
- Maximum load: 400 kg per foot.

Supply:
Set of 4 floor feet

Characteristics	References
Levelling feet adjustable	**NSYSPRJ**

Hygienic Stainless-Steel Feet

SM | SFN | SMX | SFX | SD



NSYPHX200

- Recommended for applications that require special hygiene conditions.
- Material: 316L stainless-steel.
- Installation: Adjustable between 140 mm and 200 mm in height.
- Maximum load: 200 kg per foot.

Supply:
Set of 4 hygienic feet

Characteristics	References
Hygienic stainless-steel feet	**NSYPHX200**

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Cable Management Accessories

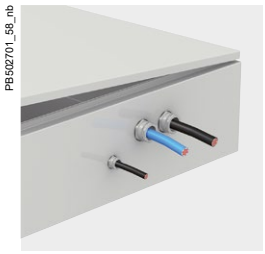
Cable Entries Key Features

Key Features When Selecting a Cable Entry (1/4)

1



Multiple



Single

Multiple Cable Entries or Single Cable Entries?

- This choice depends on the number of cables going through the cable entry: Generally, for 3 or more cables, choose a multiple cable entry.
  This will make your installation faster and more economical.
- In other words, your final costs will not necessarily be lower if you use single cable entry!
- Flexibility of installation: For high flexibility, multiple cable entry is the right choice.

2

Cable Entry Material

- **Soft membranes** allow cables to be easily pushed through, but still offer a good IP rating and protection from moisture and physical intrusion. Cable retention force, however, is lower than with other alternatives.



Push the Membrane into a Standard Hole



Make a Small Hole in the Membrane



Push the Cable or Tube through the Guide Hole

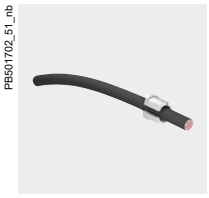


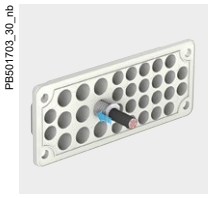
Pull the Cable or Tube Back Some 20 mm to Lock It

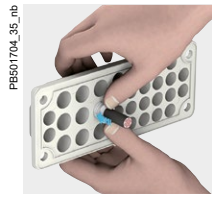
- **Hard-plastic cable entry plates** require tools to create the opening (drill or knife) but, thanks to the cable gland, they offer a very high retention force. Another use of this solution is for public places, since the hard surface helps prevent objects being pushed in.

- **Combined: The material of the cable entry plate is hard-plastic,** but the cable is pushed through a soft membrane. In this case you have the advantages of both soft membranes (easy and fast installation, flexibility) and hard-plastic membranes (high retention force when using specific cable clamps).

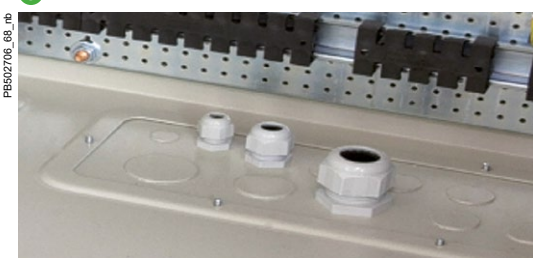








3



Cable Glands to Be Fitted

- Some multiple cable entries require a cable gland to be able to retain the cables and help ensure the degree of protection

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Key Features When Selecting a Cable Entry (2/4)

4


PB500305_30_nb

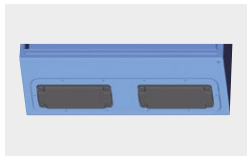
Installation Options

There are 4 ways to install your cable entries on the enclosure:

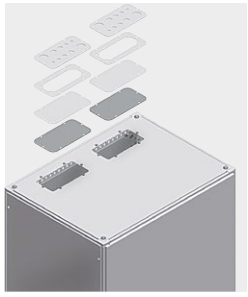
- **Using a cable entry:**
  The standard cable gland plate of your S3D wall-mounted enclosure is unscrewed and replaced by the cable entry.
  A gasket between enclosure and cable entry will help ensure good water and dust tightness.


PB500023_35_nb

- **Modifying the standard cable gland plate:**
  The standard cable gland plate is unscrewed and machined. A cut-out is made.


PB500462_44_nb

- **On cable gland plate adapter:**
  This plate, which has the outer dimensions of a standard cable gland plate, has one or more pre-cut cut-outs of standard dimensions (FL13 and FL21).
  On steel wall-mounted enclosures, the plate can replace the standard cable gland plate once the cable entry is fitted into it. On polyester enclosures, a cut-out must be created. Schneider Electric provides this service: a precise laser cut-out can be made at the factory upon request.
  On steel floor-standing enclosures, you may either use the specific cable gland roof or create a cut-out **(see expert's tip 1 - page 543)**.


PB500599_37_nb

Cable gland plate adapters		
Enclosure range	**1 membrane**	**2 membranes**
PanelSeT S3D	 PB500604_16_nb **NSYTL●FL**	 PB500604_15_nb **NSYTL●2FL**

- Drilling directly the enclosure: A cut-out is created on the enclosure's side according to the cable entry's dimensions **(see expert's tip 1 - page 543)**.


PB500358_108_nb

Spotlight On…
FL13 and FL21 are standard cut-out dimensions frequently used in northern European countries and also used by our enclosures for several years now.

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Cable Management Accessories

Cable Entries Key Features

Key Features When Selecting a Cable Entry (3/4)

PB502710_32_nb



Full Flexibility

PB500946_35_nb



Medium Flexibility

5 Flexibility of the installation

- **Full flexibility:**
  This means that cables can be added/removed easily, changing:
  - quantity
  - diameter
  - position

  (see expert's tip 2, page 543)
- **Medium flexibility:**
  - The amount, diameter or position of cables can be changed to a limited extent.
- **Low flexibility:**
  - It is not possible to change the above parameters.

6 Reversibility

- **Full reversibility:** This means that cables can be added/removed easily without losing their initial characteristics, such as water tightness.
- **Medium reversibility:** For soft membranes, once the cable has been removed, there may be a loss of IP degree depending on the size of the cable and the cut. For hard-plastic entries or combined material entries, initial characteristics are regained by adding plugs.
- **Low reversibility:** The cable entry must be completely replaced in order to regain the initial characteristics.

7 Degree of Protection (IP)

- If an enclosure is to be used in a clean, dry and well insulated environment, lower levels of IP may be acceptable (IP54 or IP55).
- In a dusty environment, a higher IP level such as IP65 or IP68 may be required **(see expert's tip 4, page 543)**.

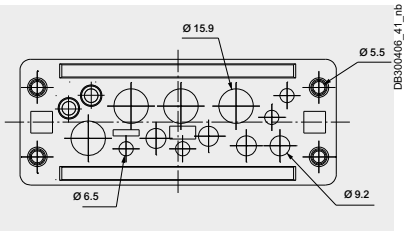
8 Cable Retention

- Choose the right level of cable retention according to your needs. For locations accessible to the public, preferably choose a high level of cable retention.

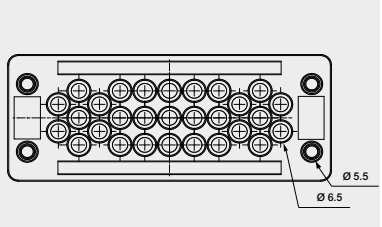
9 Cable Diameter

- Choose the cable entry seal according to the cable diameter. Take into account cable diameter tolerances.

DB300404_42_nb



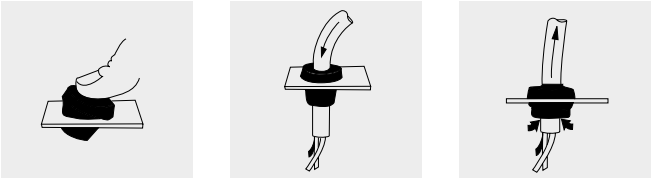
DB300406_41_nb



10 Cable Installation Time

- Each cable entry has different installation characteristics. Some can be installed easily and quickly thanks to the soft membrane. Take this into account depending on labour costs in your region.

DB300413_53_nb



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Key Features When Selecting a Cable Entry (4/4)


PB502711_30_nb


PB502712_31_nb

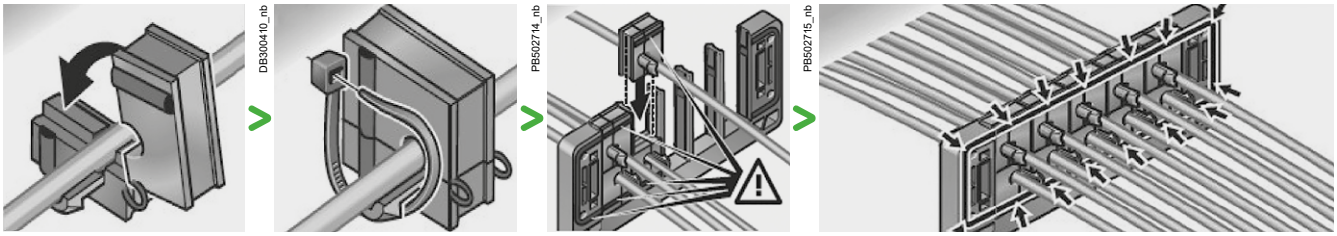
11 Number of Cables for a Given Surface

- For some installations, a large quantity of cables must go through the cable entry. Some cable entries can handle a high density of cables, which can result in a more economical installation (fewer cable entries to be purchased). For small enclosures, it may simply be impossible to install too many cable entries due to the available space on the enclosure's wall **(see expert's tip 3, page 543)**.


PB502713_34_nb

12 Cable Entries for Cables with Connectors

- Some cables have large connectors which cannot be pushed through tight cable clamps or cable seals. These cable entries have the unique advantage of not requiring the cable to be cut, thanks to the snap-fitting system.


DB300410_nb
PB502714_nb
PB502715_nb

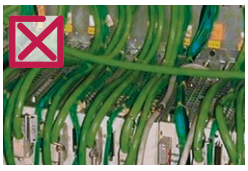
A High Cable Retention Force Is Provided Thanks to the Integrated Cable Fastener

Expert's Tip

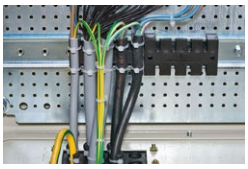
Specific Configured


PB502716_53_nb

1 Some cable entries require cut-outs to be machined on the enclosure or cable gland plate. Our customized offer provides this service. The quality of your enclosure will therefore be improved since the painting operation is performed after creating the cut-outs.


PB502717_50_nb

2 Installing a cable entry with full flexibility is the solution when a large number of enclosures is being prepared for different types of installations. By using one combination of enclosure cable entries, you can cover a large variety of installations!


PB500966_50_nb

3 When the cable entry has been defined, the next step is cable management inside the enclosure. For correct thermal management, all cables must be fitted and attached so as not to create an obstacle for correct air flow. Consult our Universal Enclosures catalog for cable management accessories (such as cable ducts) and consumables (such as cable ties).


PB500965_44_nb

4 If your environment requires a high IP level for your installation, make sure you have an appropriate thermal management system to avoid condensation or overheating problems. Consult our Thermal Management offer in our Universal Enclosures catalog and our Control Panel Technical Guide related to this issue.

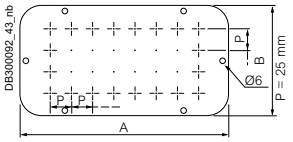
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Cable Management Accessories

Cable Gland Plates

Standard Cable Gland Plates

S3D SFN



- Plate delivered as standard with the PanelSeT S3D universal enclosure.
- Drilling marks with 25 mm spacing.
- Material: Steel, structured finish RAL 7035 gray
- Thickness: 15-20/10e mm
- Ingress protection rating: IP66 according to IEC 60529
- Fixing: Fixing by 4, 6, 8, 10 or 12 screws, according to the model

Supply:
Delivered with sealing gasket and fixing hardware


NSYTLA

Characteristics	Enclosures (mm)		Type	Width (A)	Depth (B)	Number of markings	Number of Ø 6 holes	References
	Width	Depth						
Standard	200-250	150	A	140	80	4	4	**NSYTLA**
Standard	300-400	150	B	245	80	7	4	**NSYTLB**
Standard	300	200	C	245	130	21	6	**NSYTLC**
Standard	400	200-250	D	345	130	33	8	**NSYTLD**
Standard	500	200-250	E	445	130	45	8	**NSYTLE**
Standard	600	200-250	F	545	130	57	10	**NSYTLF**
Standard	600	300-400	G	495	220	102	12	**NSYTLG**
Standard	800	250-300-400	D	345	130	-	-	2x **NSYTLD**
Standard	1000-1200	300-400	E	445	130	-	-	2x **NSYTLE**

CRN

- The cable gland plate for PanelSeT CRN guarantees water and dust tightness.
- Material: Steel
- Color: RAL 7035 gray
- Installation: Fixing with screws, it is flattened with the body
- Type E: Enclosure with 2 entries

Supply:
Included as a standard with the PanelSeT CRN enclosure It is delivered with a separate seal: It allows easy cut-outs with no risk of damaging the seal and can be easily repainted

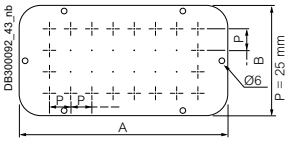

NSYTLCRNO

Characteristics	Width (mm)	Depth (mm)	To be coupled with entry	References
Standard cable gland plate	200	150	0	**NSYTLCRNO**
Standard cable gland plate	250	150/200	A	**NSYTLCRNA**
Standard cable gland plate	300	150/200	B	**NSYTLCRNB**
Standard cable gland plate	400/500	150	B	**NSYTLCRNB**
Standard cable gland plate	400	200/250	C	**NSYTLCRNC**
Standard cable gland plate	500/600	200/250/300	D	**NSYTLCRND**
Standard cable gland plate	800	200/250/300	E	**NSYTLCRNC**

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Aluminum Cable Gland Plate

S3D



- Suitable for non-magnetic applications.
- Material: Brushed-finish aluminum
- Thickness: 30/10[e] mm
- Ingress protection rating: IP66 according to IEC 60529
- Fixing: Fixing by 4, 6, 8, 10 or 12 screws, according to the model´

Supply:
Delivered with sealing gasket and fixing hardware

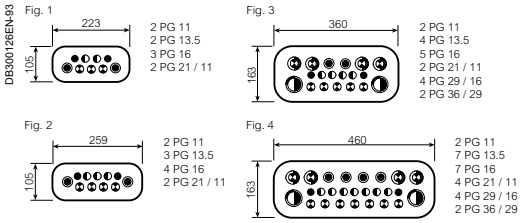
NSYTLAU

Characteristics	Enclosures (mm)		Type	Width (A)	Depth (B)	Number of Ø 6 holes	References
	Width	Depth					
Aluminum cable gland plate	300-400	150	B	245	80	4	**NSYTLBU**
Aluminum cable gland plate	600	200-250	F	545	130	10	**NSYTLFU**
Aluminum cable gland plate	600	300-400	G	495	220	12	**NSYTLGU**

Insulated Cable Gland Plates

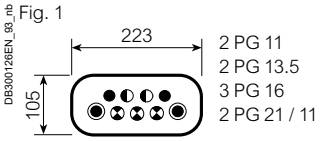
CRN

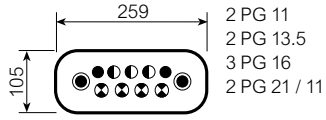
- With a polyurethane sealing gasket.
- Excellent thermal resistance.
- Pre-marked holes for cable entrie plates.
- Material: Self-extinguishing ABS with 30% fiberglass
- Color: RAL 7035 gray
- Installation: Pre-marked holes with diameter Pg for coupling of cable glands, membrane glands, tubes, etc
- For type E cable entry, use two **NSYTSACRNC**.

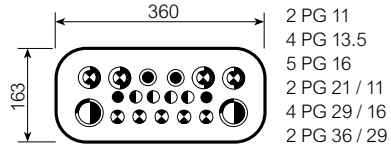


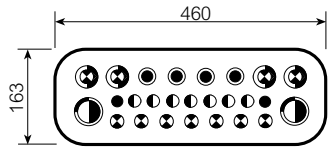

NSYTSACRNA

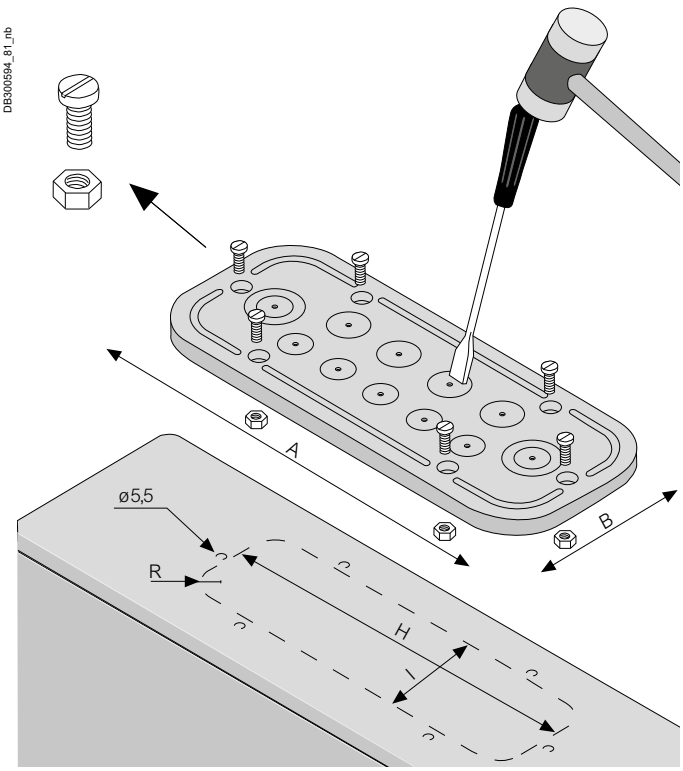
Characteristics	Fig.	Width (mm)	Depth (mm)	To be coupled with entry	References
Insulated cable gland plate	2	300	150/200	B	**NSYTSACRNB**
Insulated cable gland plate	3	400/500	150	B	**NSYTSACRNB**
Insulated cable gland plate	3	400	200/250	C	**NSYTSACRNC**
Insulated cable gland plate	4	500/600	200/250/300	D	**NSYTSACRND**
Insulated cable gland plate	3	800	200/250/300	E (2)	**NSYTSACRNC**











- PG 11 (18,6 mm)
- PG 16 (20,4 mm)
- PG 16 /22,5 mm)
- PG 21 / 11 (28.3 / 18.6 mm)
- PG 29 / 16 (37 / 22.5 mm)
- PG 36 / 29 (47 / 37 mm)

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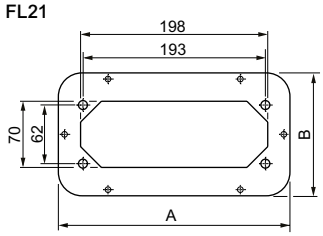
Cable Management Accessories

Cable Gland Plates

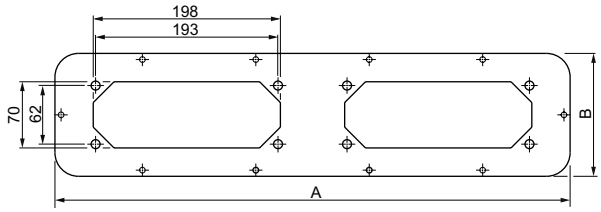
Steel Adapter Plate for FL21 Membranes

S3D SFN

FL21

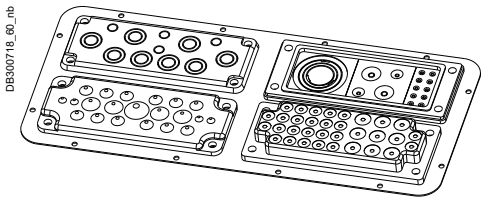


NSYTLCFL
NSYTLDFL
NSYTLFEL
NSYTLFFL
NSYTLGFL



NSYTLF2FL
NSYTLG2FL

Application Example



Our membrane can be easily adapted to fit onto all our metal enclosures using the adapter plate.

- Allows the mounting of FL13 and FL21 membranes on every type of enclosure.
- Our membrane can be easily adapted to fit onto all our metal enclosures using the adapter plate.
- Ingress protection rating IP55 according to IEC 60529.
- Cut-outs for installation of membranes type FL 21 (Cut-out FL13 for depth 150 mm; And cut-out FL21 for other depths).
- Material: Steel, structured finish RAL 7035 gray
- Thickness: 15/10e mm
- Fixing: Fixing by 4, 6, 8, 10 or 12 screws, according to the model
- **NSYTLG2FL** with 2 FL21 cut-outs

Supply:
Delivered with fixing screws and gasket



NSYTLCFL

Characteristics	Type	Plate dimensions (mm)		Cut-out dimensions (mm)		References
		A	B	H	I	
Steel adapter plate for FL21 membranes	C	245	130	212	97	**NSYTLCFL**
Steel adapter plate for FL21 membranes	D	345	130	312	97	**NSYTLDFL**
Steel adapter plate for FL21 membranes	E	445	130	412	97	**NSYTLEFL**
Steel adapter plate for FL21 membranes	F	545	130	512	97	**NSYTLFFL**
Steel adapter plate for FL21 membranes	F	545	130	512	97	**NSYTLF2FL**
Steel adapter plate for FL21 membranes	G	495	220	462	187	**NSYTLGFL**
Steel adapter plate for FL21 membranes	G	495	220	462	187	**NSYTLG2FL**
Steel adapter plate for FL21 membranes	D	345	130	312	97	2x **NSYTLDFL**
Steel adapter plate for FL21 membranes	E	445	130	412	97	2x **NSYTLEFL**

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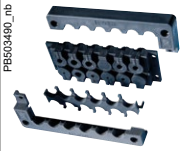
Cable Management Accessories

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Cable Management Accessories

Cable Entries Selection Table

• For details enter the reference into the search engine of www.se.com

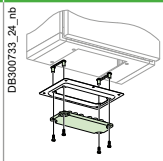
Characteristics	FlexiCable	Multi-A	Multi-C	Multi-R	Multi-CS	Multi-T
						
	Full membrane cable gland plate	**FL21 type membranes**	**Circular connector-free entries**	**Rectangular connector-free entries**	**Modular entry allowing the passing of up to 48 pre-assembled cables**	**FL21-type membranes**
Material	HCE for membrane. Steel for frame	TPE, SBS, SEBS and PP co-polymer - halogen-free	Polyamide	Polyamide	Reinforced polypropylene and TPE. halogen-free	TPE
Color	Frame: RAL 7035 gray	RAL 7035 gray	-	-	Black	RAL 7035 gray
Cable entry material	Soft membrane	Combined	Soft membrane			
Cable glands to be fitted	No	Optional: Specific cable clamp ref. **NSYAECPFLACA●●** to be used	No	No	No	No
Installation options	Replaces cable gland plate (S3D) or directly on enclosure	On cable gland plate adapter or directly on enclosure	On modified cable gland plate or directly on enclosure	On cable gland plate with special cut-out or directly on enclosure	On cable gland plate adapter or directly on enclosure	
Flexibility of the installation	Full	Medium	Medium	Medium	Full	Medium
Reversibility	Medium	Medium	Full	Full	Full	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP66 according to IEC 60529*
Cable retention	Low	High with cable clamp, (up to 18 daN)	Medium	Medium	Medium	Low
Cable diameter (mm)	Up to 26	From 16 to 30	From 3 to 15.9	From 4.3 to 15.9	Up to 22	From 5 to 60
Cable Installation time	Fast	Medium	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+++	++	++	++	+++	++
Cable entries for cables with connectors	No	No	No	No	Yes	No
Cut-out dimensions (mm)	178 x 63 to 478 x 63	214 x 90 (FL21)	Ø 50.5 Ø 63.5	112 x 36	112 x 36	214 x 90 (FL21)
External dimensions (mm)	245 x 130 to 545 x 130 or 495 x 220	216 x 84	Ø 58 Ø 71	146 x 14 x 58	148 x 58 x 15 148 x 58 x 18	214 x 88
Certificates	Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1	Cable anchorage pull test: EN 50262. Long term UV- resistance: ASTM G 154-06	UL recognized (UsR)	UL recognized (UsR)	-	-
Fire resistance	650 °C	750 °C	650 °C	650 °C	-	650 °C
Temperature range	-	-40 °C to +85 °C	-	-	-30 °C to +100 °C	-40 °C to +100 °C
References	**See page 552 NSYTL●●●**	**See page 552 NSYAECPFLA●●**	**See page 553 NSYTSAM●●●●●**	**See page 553 NSYTSA24●●●●**	**See page 555 NSYDCD24●●**	**See page 554 NSYAECPFL●●●**

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Cable Management Accessories

Cable Entries Selection Table

- For further information please have a look on the next page

Characteristics	PrismaSeT	Multi-H
		
	FL21 or rectangular	**FL21 insulated flange with ISO knock-outs**
Material	Insulated material	Polycarbonate glass-fiber reinforced
Color	RAL 9003	RAL 7035 gray
Cable entry material	Soft membrane	
Cable glands to be fitted	No	Yes
Installation options	On cable gland plate adapter or directly on enclosure	
Flexibility of the installation	Medium	Low
Reversibility	Medium	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529
Cable retention	Low	High (with cable clamp)
Cable diameter (mm)	From 28 to 60 (FL21) From 7 to 72 (rectangular)	From 12 to 25
Cable Installation time	Fast	Slow
Quantity of cables to be fitted for a given surface	++	++
Cable entries for cables with connectors	No	No
Cut-out dimensions (mm)	214 x 90 (FL21)	214 x 90 (FL21)
External dimensions (mm)	216 x 84	215 x 85
Certificates	-	-
Flame resistance	-	750 °C
Temperature range	-	• For normal operation: -40 °C to +80 °C • For a short time: -40 °C to +120 °C
References	**See page 556** **LVS088●●**	**See page 554** **NSYTSAKFL**

6

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Cable Management Accessories

Cable Entries Selection Table

• For details enter the reference into the search engine of www.se.com

Characteristics	Simple-1	Simple-2	Simple-3	Simple-5
	ISM71074 	NSYECPC15 	IMT36179 	ISM71503 
	Mixed membrane entries for enclosure thickness 20/10e - 32/10e mm.	**PVC adjustable cone-shaped entries for enclosure thickness 30/10e - 32/10e mm.**	**Quick cable entries for enclosure thickness 10/10e - 40/10e mm (5/10e - 20/10e mm for ref. IMT36179).**	**ISO cable gland.**
Material	SBS	PVC	EPDM plastic	PA6 Polyamide, neoprene gasket
Color	RAL 7035 gray or RAL 9010 white	-	Gray cable entries: NCS 5500 Black cable entries: NCS 9000	RAL 7035 gray
Cable entry material	Soft membrane		Combined	
Cable glands to be fitted	Not applicable			
Installation options	On cable gland plate or directly on enclosure			
Flexibility of the installation	Low			
Reversibility	Medium			
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP67 according to IEC 60529	IP66 o IP68-5BARS TYPE 4X (cULus) UL50E
Cable retention	Low	Low	Medium	High
Cable diameter (mm)	From 20 to 40	From 5 to 87	From 12 to 50	From 12 to 40
Cable Installation time	Fast	Fast	Fast	Slow
Quantity of cables to be fitted for a given surface	+	+	+	+
Cable entries for cables with connectors	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter			
External dimensions (mm)	From Ø 23 to 44	From Ø 25 to 98	From Ø 12.5 to 50.7	From Ø 15 to 46
Certificates	-	-	-	-
Standard	-	-	-	Compliance with UL
Flame resistance	750 °C	-	750 °C	750 °C
References	**See page 557 IMT36●●●/I SM71●●●**	**See page 557 NSYECPC●●**	**See page 558 IMT361●●**	**See page 558 ISM71●●●**

Characteristics	Synthetic snap-in cable gland	Stainless-steel cable gland with lamellar insert
	NSYCGSP16 	NSYCGX12 
	Without thread. Easy assembly and disassembly. Suitable for walls from 0.5 to 4 mm thick.	**Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.**
Material	PA6 Polyamide, neoprene gasket	Stainless-steel AISI 304L or AISI 316L, neoprene gasket
Color	RAL 7035 gray, RAL 7001, RAL 9005. Other colors on demand	-
Cable entry material	Non armoured	Non armoured
Installation options	On cable gland plate or directly on enclosure	
Flexibility of the installation	Low	
Reversibility	Medium	
Ingress protection rating	IP68	IP68
Cable retention	High	High
Cable diameter (mm)	From 16 to 40	From 12 to 40
Cable Installation time	Slow	Slow
Quantity of cables to be fitted for a given surface	+	+
Cable entries for cables with connectors	No	No
Thread type	Metric EN 60423, other types are available on demand	Metric EN 60423
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter	
External dimensions (mm)	From Ø 22 to 46	From Ø 14 to 43
Certificates	UL recognized (cURus). Rated Type 4X according UL50E	UL recognized (cURus). Rated Type 4X according UL50E
Standard	DIN EN 62444, UL 514B, UL 514B§8.26.7	DIN EN 62444, UL 514
Temperature range	-20 °C to + 100 °C	-20 °C to + 100 °C
References	**See page 559, NSYCGSP●●**	**See page 559, NSYCGX●●●**

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Cable Management Accessories

Cable Entries Selection Table

Characteristics	Multi-cable disc		Cable gland gasket	Blanking plug	Transport plug
					
	The multi-cable bushing permits several cables to be passed through a single cable gland.			It is screwed into the cable gland's plate.	It is installed to block the cable gland during transport or during maintenance operations.
Material	EDPM rubber		EDPM rubber	PA6	PA6
Color	Black		Black	RAL 7035 gray	Black
Ingress protection rating	-		IP68	-	-
Standards	-		-	-	-
Other characteristics	-		-	-	-
Supply	Set of 40 (M16 and M20), 20 (M25 and M32)		Set of 100 (M12 to M20), 50 (M25 and M32), 25 (M40)	Pack of 40 plugs (M12 to M20), 20 plugs (M25 and M32), 10 plugs (M40)	Pack of 40 plugs (M16 to M20), pack of 20 (M25 and M32), pack of 10 (M40)
Ø	Number / Ø (mm)	References	References	References	References
M12	-	-	**IMT36151**	**IMT36161**	-
M16	-	-	**IMT36152**	**IMT36162**	**IMT36167**
M20	3 x Ø 4	**IMT36158**	**IMT36153**	**IMT36163**	**IMT36168**
M25	-	-	**IMT36154**	**IMT36164**	**IMT36169**
M32	-	-	**IMT36155**	-	-

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Cable Management Accessories

Cable Entries

FlexiCable Cable Entries

S3D SFN

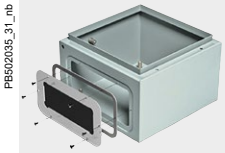
FlexiCable is an innovative cable gland plate for simple and fast cable entry. There is no need to drill holes: The creation of the cable entrances takes a few seconds.

- Installation options: Replaces cable gland plate (S3D) or directly on enclosure.
- Cable diameter: Up to 26 mm.
- Ingress protection rating: IP55 according to IEC 60529
- Fixing: By 4, 6, 8, 10 or 12 screws, according to the model.

Other characteristics:

- Exists in 5 sizes matching 46 sizes (132 models) of PanelSeT S3D steel wall-mounted enclosures
- Fire resistant 650 °C following IEC 60695-2-11
- Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1.

Mount FlexiCable on Your S3D Enclosure



Create a Hole with a Screw Driver



Push the Cable through Flexicable and Complete Your Installation



Note:
Details see page 548

Supply:
1 metal frame with pre-mounted membrane, 1 gasket, fixing hardware


NSYTLGME

Characteristics	Type	Plate width (mm)	Plate depth (mm)	Effective cable entrance dimensions (mm)	References
FlexiCable cable entries	C	245	130	178 x 63	**NSYTLCME**
FlexiCable cable entries	D	345	130	278 x 63	**NSYTLDME**
FlexiCable cable entries	E	445	130	378 x 63	**NSYTLEME**
FlexiCable cable entries	F	545	130	478 x 63	**NSYTLFME**
FlexiCable cable entries	G	495	220	428 x 153	**NSYTLGME**
FlexiCable cable entries for enclosure with 2 cable gland plates	D	345	130	-	2x **NSYTLDME**
FlexiCable cable entries for enclosure with 2 cable gland plates	E	445	130	-	2x **NSYTLEME**

Multi-A

CRN S3D SFN

- Material: TPE, SBS, SEBS and PP co-polymer - halogen-free
- Color: RAL 7035 gray
- Cable entry material: Combined
- Cable glands to be fitted: Optional: Specific cable clamp ref. **NSYAECPFLACA●●** to be used
- Installation options:
  On cable gland plate adapter or directly on enclosure
- Flexibility of the installation: Medium
- Reversibility: Medium
- Ingress protection rating: IP55 according to IEC 60529
- Cable retention: High with cable clamp, (up to 18 daN)
- Cable diameter (mm): From 14 to 30
- Cable Installation time: Medium
- Quantity of cables to be fitted for a given surface: ++
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): 134 x 52 (FL13); 214 x 90 (FL21)
- External dimensions (mm): 216 x 84
- Certificates: Cable anchorage pull test: EN 50262. Long term UV resistance: ASTM G 154-06
- Flame resistance: 750 °C
- Temperature range: -40 °C to +85 °C

FL13



FL21



Note:
Details see page 548


NSYAECPFLA25


NSYAECPFLA33

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Diameter of the cable entry (Ø mm) No.	13	14	15	16	18	21	30	References
Multi-A Type FL21	25	215	86	25	-	16	-	-	6	-	3	**NSYAECPFLA25**
Multi-A Type FL21	25	215	86	33	-	24	-	-	9	-	-	**NSYAECPFLA33**

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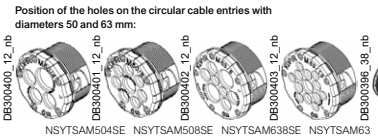
Multi-C

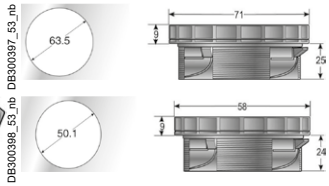
SBM CRN S3D PLS PLM PLA S3CM PHD S3HD

- Order by multiples of 10 (10, 20, 30...)
- Material: Polyamide
- Cable entry material: Soft membrane
- Cable glands to be fitted: No
- Installation options:
  On modified cable gland plate or directly on enclosure
- Flexibility of the installation: Medium
- Reversibility: Full
- Ingress protection rating: IP55 according to IEC 60529, UL recognized (UR)
- Cable retention: Medium
- Cable diameter (mm): From 3 to 15.9
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: ++
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): Ø 50.5; Ø 63.5
- External dimensions (mm): Ø 58; Ø 71
- Certificates: UL 94 V-0
- Flame resistance: 650 °C



NSYTSAM508SE





Note:
Details see page 548

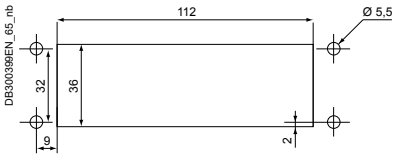
Supply:
10 units.
Reference by unit.
Order by multiples of 10 (10, 20, 30...)

Characteristics	Cut-out	Diameter of the cable entry (Ø mm)						References
	Ø (mm)	No.	3-5.5	3-6.5	3.6-6.5	5-9.2	6-10	9.6-15.9	
Multi-C	50.5	8	-	-	7	-	1	-	**NSYTSAM508SE**
Multi-C	63.5	8	-	2	-	4	-	2	**NSYTSAM638SE**

Multi-R

SBM CRN S3D PLS PLM PLA S3CM PHD S3HD

- Material: Polyamide
- Cable entry material: Soft membrane
- Cable glands to be fitted: No
- Installation options: On cable gland plate with special cut-out or directly on enclosure
- Flexibility of the installation: Medium
- Reversibility: Full
- Ingress protection rating: IP65 according to IEC 60529
- Cable retention: Medium
- Cable diameter (mm): From 4.3 to 15.9
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: ++
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): 112 x 36
- External dimensions (mm): 146 x 14 x 58
- Certificates: UR Certified
- Flame resistance: 650 °C



Note:
Dimensions and positions of the holes on a rectangular cable entry see below.
Details see page 548

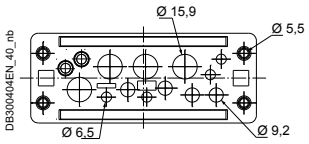
Supply:
1 unit



NSYTSA2414SE

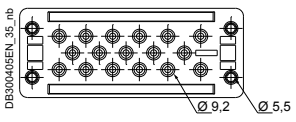
Characteristics	Cut-out	Diameter of the cable entry (Ø mm)						References
	Ø (mm)	No.	4.3-8.1	3-6.5	5-9.2	8-12.5	9.6-15.9	
Multi-R	112 x 36	14	-	6	4	-	-	**NSYTSA2414SE**
Multi-R	112 x 36	17	-	-	17	-	-	**NSYTSA2417SE**
Multi-R	112 x 36	22	-	16	4	2	-	**NSYTSA2422SE**
Multi-R	112 x 36	23	23	-	-	-	-	**NSYTSA2423SE**
Multi-R	112 x 36	29	-	29	-	-	-	**NSYTSA2429SE**

NSYTSA2414SE



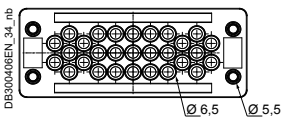
KDP 24/14

NSYTSA2417SE



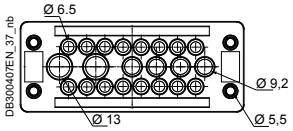
KDP 24/17

NSYTSA2429SE



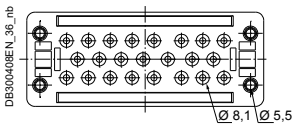
KDP 24/29

NSYTSA2422SE



KDP 24/22

NSYTSA2423SE



KDP 24/23

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Cable Management Accessories

Cable Entries

Multi-T

CRN S3D SFN

- Material: TPE
- Color: RAL 7035 gray
- Cable entry material: Soft membrane
- Cable glands to be fitted: No
- Installation options:
  On cable gland plate adapter or directly on enclosure
- Flexibility of the installation: Medium
- Reversibility: Medium
- Ingress protection rating: IP66 according to IEC 60529
  (IP65 for **NSYAECPFLBP**)
- Cable retention: Low
- Cable diameter (mm): From 5 to 60
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: ++
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): 214 x 90 (FL21)
- External dimensions (mm): 214 x 88
- Flame resistance: 650 °C
- Temperature range: -40 °C to +100 °C

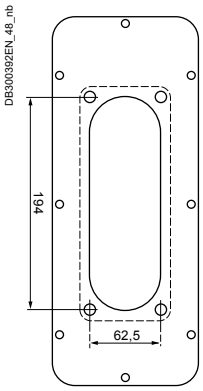
Note:
Details see page 548

- Type FL21

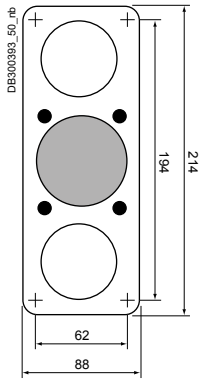

NSYAECPFLT25

Characteristics	Diameter of the cable entry (Ø mm)												References
	No.	5-7	6-10	8-12	8-16	10-14	12-18	14-20	17-32	20-26	24-54	30-60	
Multi-T, metal plate	0	-	-	-	-	-	-	-	-	-	-	-	**NSYAECPFLBP**
Multi-T	7	-	-	-	4	-	-	-	-	-	2	1	**NSYAECPFLT7**
Multi-T	27	4	-	4	-	13	-	4	-	2	-	-	**NSYAECPFLT25**
Multi-T	37	-	4	14	-	16	2	-	1	-	-	-	**NSYAECPFLT35**

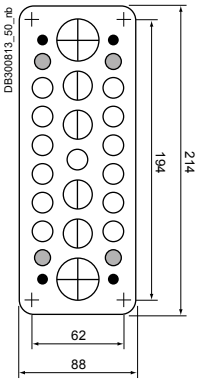
NSYAECPFLBP



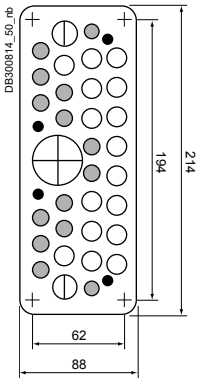
NSYAECPFLT7



NSYAECPFLT25



NSYAECPFLT35



Multi-H

S3D S3CM

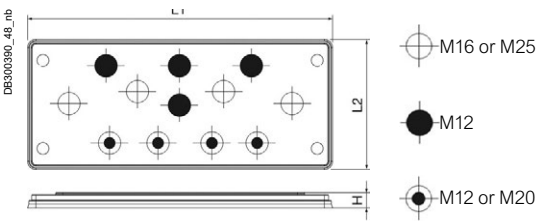
- Material: Fiberglass-reinforced polycarbonate
- Color: RAL 7035 gray
- Cable entry material: Hard-plastic
- Cable glands to be fitted: Yes
- Installation options:
  On cable gland plate adapter or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP65 according to IEC 60529
- Cable retention: High (with cable clamp)
- Cable diameter (mm): From 12 to 25
- Cable Installation time: Slow
- Quantity of cables to be fitted for a given surface: ++
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): 214 x 90 (FL21)
- External dimensions (mm): 215 x 85
- Flame resistance: 750 °C
- Temperature range: For normal operation: -40 °C to +80 °C;
  For a short time: -40 °C to +120 °C

Note:
Details see page 549

- Type FL21


NSYTSAKFL

Characteristics	L1 (mm)	L2 (mm)	H (mm)	Diameter of the cable entry (Ø mm)			References
				M12	M12 or M20	M16 or M25	
Multi-H	10	215	85	4	4	4	**NSYTSAKFL**



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Multi-CS

S3D

- Material: Reinforced polypropylene and TPE. halogen-free
- Color: Black
- Cable entry material: Soft membrane
- Cable glands to be fitted: No
- Installation options:
  On cable gland plate adapter or directly on enclosure
- Flexibility of the installation: Full
- Reversibility: Full
- Ingress protection rating: IP65 according to IEC 60529
- Cable retention: Medium
- Cable diameter (mm): Up to 22
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: +++
- Cable entries for cables with connectors: Yes
- Cut-out dimensions (mm): 112 x 36
- External dimensions (mm): 148 x 58 x 15; 148 x 58 x 18
- Certificates: UL recognized (UR)
- Temperature range: -30 °C to +100 °C

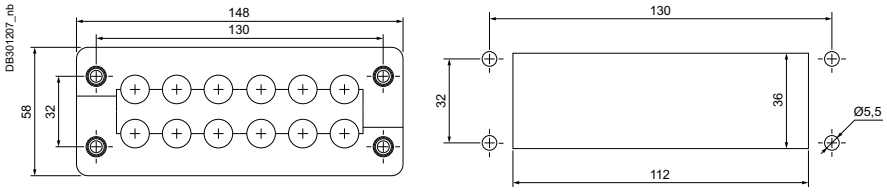
Note:
Details see page 548

Supply:
1 unit



NSYDCD2412

Characteristics	Cut-out	Diameter of the cable entry (Ø mm)			References
	(mm)	Number	2-12	12-24	
Multi-CS	112 x 36	12	12	-	**NSYDCD2412**
Multi-CS	112 x 36	4	-	4	**NSYDCD244**
Multi-CS	112 x 36	8	6	2	**NSYDCD248**
Multi-CS	112 x 36	9	8	1	**NSYDCD249**



6

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Cable Management Accessories

Cable Entries

Grommets for Cable Entries

Supply:
Small … plugs: 12 units. Reference per unit. To be ordered in multiples of 12 (12,24,36, etc.).
Large … plugs: 4 units. Reference per unit. To be ordered in multiples of 4 (4,8,12, etc.)


NSYCEJDS2

Characteristics	Cable Ø (mm)	References
Grommets for cable entries, small	2-3	**NSYCEJDS2**
Grommets for cable entries, small	3-4	**NSYCEJDS3**
Grommets for cable entries, small	4-5	**NSYCEJDS4**
Grommets for cable entries, small	5-6	**NSYCEJDS5**
Grommets for cable entries, small	6-7	**NSYCEJDS6**
Grommets for cable entries, small	7-8	**NSYCEJDS7**
Grommets for cable entries, small	8-9	**NSYCEJDS8**
Grommets for cable entries, small	9-10	**NSYCEJDS9**
Grommets for cable entries, small	10-11	**NSYCEJDS10**
Grommets for cable entries, small	11-12	**NSYCEJDS11**
Grommets for cable entries, large	12-13	**NSYCEJDL12**
Grommets for cable entries, large	13-14	**NSYCEJDL13**
Grommets for cable entries, large	14-15	**NSYCEJDL14**
Grommets for cable entries, large	15-16	**NSYCEJDL15**
Grommets for cable entries, large	16-17	**NSYCEJDL16**
Grommets for cable entries, large	17-18	**NSYCEJDL17**
Grommets for cable entries, large	18-19	**NSYCEJDL18**
Grommets for cable entries, large	19-20	**NSYCEJDL19**
Grommets for cable entries, large	20-21	**NSYCEJDL20**
Grommets for cable entries, large	21-22	**NSYCEJDL21**

Blanking Plugs

Supply:
Small … plugs: 12 units. Reference per unit. To be ordered in multiples of 12 (12,24,36, etc.).
Large … plugs: 4 units. Reference per unit. To be ordered in multiples of 4 (4,8,12, etc.)


NSYCEJDS0

Characteristics	References
Blanking plugs, small	**NSYCEJDS0**
Blanking plugs, large	**NSYCEJDL0**

PrismaSeT

- Material: Insulated material
- Color: RAL 9003
- Cable entry material: Soft membrane
- Cable glands to be fitted: No
- Installation options:
  On cable gland plate adapter or directly on enclosure
- Flexibility of the installation: Medium
- Reversibility: Medium
- Ingress protection rating: IP55 according to IEC 60529
- Cable retention: Low
- Cable diameter (mm): From 28 to 60 (FL21), From 7 to 72 (rectangular)
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: ++
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): 214 x 90 (FL21)
- External dimensions (mm): 216 x 84

PrismaSeT, Plain

S3D


LVS08881

- Solid cable gland plates

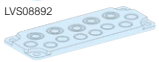
Note:
Details see page 549

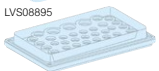
Characteristics	Type	References
PrismaSeT, plain	FL21	**LVS08881**

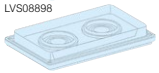
PrismaSeT, Pre-Drilled

S3D


LVS08892


LVS08895


LVS08898


LVS08899

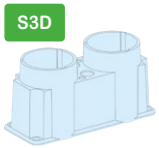
- Suitable for receiving cable glands with metric pitch

Note:
Reference **LVS08898** is made up of:
3 cables with diameters from 14 to 26.
4 cables with diameters from 10 to 20.
32 cables with diameters from 7 to 16.
Details see page 261

Characteristics	Type	References
PrismaSeT, pre-drilled, with 4 entries 2 x M20 or M32 + 2 x M25 or M40	FL21	**LVS08892**
PrismaSeT, pre-drilledn, with 13 entries 5 x M16 or M25 + 8 x M20	FL21	**LVS08895**
PrismaSeT, pre-drilled, with 39 entries Ø 7 - 26 mm	opening 225 x 137 mm	**LVS08898**
PrismaSeT, pre-drilled, with 2 entries Ø 33 - 72 mm	opening 225 x 137 mm	**LVS08899**

PrismaSeT, Membrane

S3D


LVS08897

- Membrane to be drilled according to the required diameter

Note:
Details see page 261

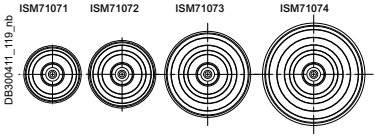
Characteristics	Type	References
PrismaSeT, membrane, 2 entries, 2 x Ø 28 - 60 mm	FL21	**LVS08897**

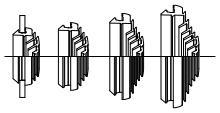
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Mixed Membrane Entries for IP55 Direct Cable Entries

S3D TBS TBP

- Mixed membrane entries for enclosure thickness 20/10e - 32/10e mm.
- Material: SBS
- Color: RAL 7035 gray or RAL 9010 white
- Cable entry material: Soft membrane
- Cable glands to be fitted: Not applicable
- Installation options: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP55 according to IEC 60529
- Cable retention: Low
- Cable diameter (mm): From 20 to 40
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 23 to 44
- Flame resistance: 750 °C





Note:
Details see page 550

Supply:
Minimal packaging of 10 pieces

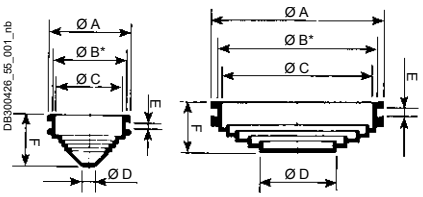

ISM71074

Characteristics	Drill hole Ø (mm)	Cable / conduit Ø (mm)	References
Mixed membrane entries for IP55 direct cable entries, RAL 7035	23	4 - 20	**ISM71071**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	29	4 - 25	**ISM71072**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	36	4 - 32	**ISM71073**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	44	4 - 40	**ISM71074**

PVC Adjustable Cone-Shaped Entries

S3D TBS TBP

- PVC adjustable cone-shaped entries for enclosure thickness 30/10e - 32/10e mm.
- Material: PVC
- Cable entry material: Soft membrane
- Cable glands to be fitted: Not applicable
- Installation options: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP55 according to IEC 60529
- Cable retention: Low
- Cable diameter (mm): From 5 to 87
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 25 to 98



Note:
* Drill-hole for mounting.
Details see page 550

Supply:
NSYECPC3 50 cable entries,
NSYECPC5 and **NSYECPC6** each 25 cable entries,
NSYECPC9 and **NSYECPC15** each 10 cable entries


NSYECPC15

Characteristics	Dimensions (mm)						Capacity		References
	Ø A	Ø B*	Ø C	Ø D	E	F	Cable (Ø mm)	Tube	
PVC adjustable cone-shaped entries	25	21.5	18	5	3.2	13	5-18	PG 9-11	**NSYECPC3**
PVC adjustable cone-shaped entries	33	29.5	26	5	3.2	20	5-26	PG 9-16	**NSYECPC5**
PVC adjustable cone-shaped entries	43	38.5	36	5	3.2	22	5-36	PG 9-21	**NSYECPC6**
PVC adjustable cone-shaped entries	70	63	60	28	3	20	28-60	PG 21-48	**NSYECPC9**
PVC adjustable cone-shaped entries	98	90	87	28	3	23	28-87	PG 21-48	**NSYECPC15**

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Cable Management Accessories

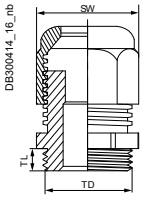
Cable Entries

ISO Cable Gland

S3D SBX TBS TBP

- ISO cable gland.
- Material: PA6 Polyamide, neoprene gasket
- Color: RAL 7035 gray
- Cable entry material: Combined
- Installation options: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP68
- Cable retention: High
- Cable diameter (mm): From 12 to 40
- Cable Installation time: Slow
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 15 to 46
- Certificate: VDE, UL Recognized (UR)
- Flame resistance: 750 °C

- The cable gland (ref. **IMT36150**) is especially recommended for security circuits.



Note:
* In brackets: Tolerance.
Details see page 550

Supply:
The cable glands are supplied with nuts. Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40)

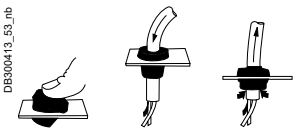

ISM71503

Characteristics	Dimensions						References
	ISO	Cable Ø (mm)	Drill hole* Ø (mm)	TD	TL		
Cable gland	M12	3 / 6.5	12.2 (0 + 0.2)	12	6	15	**ISM71501**
Cable gland	M16	4 / 8	16.2 (0 + 0.2)	16	8	19	**ISM71502**
Cable gland	M20	6 / 12	20.2 (0 + 0.2)	20	10	24	**ISM71503**
Cable gland with high resistance to fire	M20	6 / 12	20.2 (0 + 0.2)	20	10	24	**IMT36150**
Cable gland	M25	11 / 17	25.2 (0 + 0.2)	25	8	29	**ISM71504**
Cable gland	M32	15 / 21	32.2 (0 + 0.3)	32	10	36	**ISM71505**
Cable gland	M40	19 / 28	40.5 (0 + 0.3)	40	10	46	**ISM71506**

Quick Cable Entries

S3D TBS TBP

- Quick cable entries for enclosure thickness 10/10e - 40/10e mm (5/10e - 20/10e mm for ref. **IMT36179**).
- Material: EPDM plastic
- Color: Gray cable entries: NCS 5500; Black cable entries: NCS 9000
- Cable entry material: Combined
- Cable glands to be fitted: Not applicable
- Installation options: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP67 according to IEC 60529
- Cable retention: Medium
- Cable diameter (mm): From 12 to 50
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 12.5 to 50.7
- Flame resistance: 750 °C



Note:
Details see page 550

Supply:
50 (M12 to M32), 25 (M40 and M50)


IMT36179

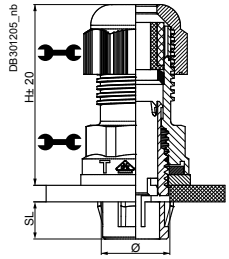
Characteristics	Dimensions			References
	Ø	Drill hole Ø (mm)	Cable Ø (mm)	
Quick cable entries	M12	12.5	3 - 5	**IMT36179**
Quick cable entries	M16	16	5 - 7	**IMT36180**
Quick cable entries	M20	20.3	7 - 10	**IMT36181**
Quick cable entries	M25	25.3	10 - 14	**IMT36182**
Quick cable entries	M32	32.4	14 - 20	**IMT36183**
Quick cable entries	M40	40.7	20 - 26	**IMT36184**
Quick cable entries	M50	50.7	26 - 35	**IMT36185**

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Synthetic Snap-In Cable Gland

S3D SBX TBS TBP

- Without thread.
- Easy assembly and disassembly.
- Suitable for walls from 0.5 to 4 mm thick.
- Material: PA6 Polyamide, neoprene gasket
- Color: RAL 7035 gray, RAL 7001, RAL 9005. Other colors on demand
- Cable entry material: Non-armoured
- Installation options: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP66
- Cable retention: High
- Cable diameter (mm): From 16 to 40
- Cable Installation time: Slow
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Thread type: Metric EN 60423. Other types are available on demand
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 22 to 46
- Certificates: UR (cURus) Type 4x except for the size M40
- Standard: DIN EN 62444, UL 514B, UL 514B§8.26.7
- Temperature range: -20 °C to + 100 °C



Note:
Details see page 550

Supply:
The cable glands are supplied with nuts. Pack of 20 (M16 and M20), of 10 (M25 and M32), of 5 (M40)

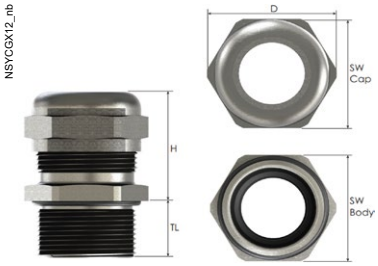

NSYCGSP16

Characteristics	Dimensions							References
	Ø	Ø min / max	Drill Ø	SL	SD	H		
Synthetic snap-in cable gland	M16	5/10	16.2 to 16.4	9	15.9	42.5	22	**NSYCGSP16**
Synthetic snap-in cable gland	M20	6/12	20.2 to 20.4	9	19.9	41.5	24	**NSYCGSP20**
Synthetic snap-in cable gland	M25	11/17	25.2 to 25.4	9	24.9	43.5	29	**NSYCGSP25**
Synthetic snap-in cable gland	M32	15/21	32.2 to 32.4	9	31.9	49.5	36	**NSYCGSP32**
Synthetic snap-in cable gland	M40	19/28	40.2 to 40.4	11.5	39.9	56	46	**NSYCGSP40**

Stainless-Steel Cable Gland with Lamellar Insert

S3D SBX

- Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For aggressive environments.
- Material: Stainless-steel AISI 304L or AISI 316L, neoprene gasket
- Cable entry material: Non armoured
- Installation options: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP68
- Cable retention: High
- Cable diameter (mm): From 12 to 40
- Cable Installation time: Slow
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Thread type: Metric EN 60423
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 14 to 43
- Certificates: UL recognized (cURus). Rated Type 4, 4X according UL50E
- Standard: DIN EN 62444, UL 514
- Temperature range: -20 °C to + 100 °C



Supply:
The cable glands are supplied with nuts
Pack of 5 (M12 and M16), of 4 (M20 and M25), of 2 (M32 and M40)


NSYCGX12

Characteristics	Dimensions							References
	Ø	Ø min-max mm	Thread Length TL mm	SW Cap mm	SW Body mm	Outer Ø D mm	max. Height H mm	
AISI 304L	M12x1.5	3.0 - 6.5	6	14	14	15.5	24	**NSYCGX12**
AISI 304L	M16x1.5	4.0 - 8.0	7	17	19	21	25.5	**NSYCGX16**
AISI 304L	M20x1.5	10.0 - 14.0	8	24	24	26.5	30	**NSYCGX20**
AISI 304L	M25x1.5	10.0 - 14.0	8	24	27	30	30	**NSYCGX25**
AISI 304L	M32x1.5	13.0 - 18.0	9	30	36	39.8	35	**NSYCGX32**
AISI 304L	M40x1.5	18.0 - 25.0	9	41	46	51.4	40.5	**NSYCGX40**
AISI 316L	M12x1.5	3.0 - 6.5	6	14	14	15.5	24	**NSYCGX12H**
AISI 316L	M16x1.5	4.0 - 8.0	7	17	19	21	25.5	**NSYCGX16H**
AISI 316L	M20x1.5	10.0 - 14.0	8	24	24	26.5	30	**NSYCGX20H**
AISI 316L	M25x1.5	10.0 - 14.0	8	24	27	30	30	**NSYCGX25H**
AISI 316L	M32x1.5	13.0 - 18.0	9	30	36	39.8	35	**NSYCGX32H**
AISI 316L	M40x1.5	18.0 - 25.0	9	41	46	51.4	40.5	**NSYCGX40H**

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Cable Management Accessories

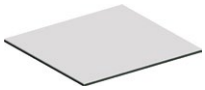
Cable Gland Plates

Plain Cable Gland Plate

SM

- Cable-gland plate to be placed on top or bottom of the enclosure
- The design of the compact cable gland plate, coupled with the use of the sealing gasket **NSYCEK** enable maximum dust/water tightness
- Material: Steel painted with epoxy polyester resin
- Color: RAL 7035 gray
- Thicknesses: 10/10e mm

Supply:
Plain plate and fixing elements



NSYSMEC63

Characteristics	Width (mm)	Depth (mm)	References
Plain cable gland plate	600	300	**NSYSMEC63**
Plain cable gland plate	600	400	**NSYSMEC64**
Plain cable gland plate	600	500	**NSYSMEC65**
Plain cable gland plate	800	300	**NSYSMEC83**
Plain cable gland plate	800	400	**NSYSMEC84**
Plain cable gland plate	800	500	**NSYSMEC85**
Plain cable gland plate	800	600	**NSYSMEC86**
Plain cable gland plate	1000	400	**NSYSMEC104**
Plain cable gland plate	1200	300	2x **NSYSMEC63**
Plain cable gland plate	1200	400	2x **NSYSMEC64**
Plain cable gland plate	1200	500	2x **NSYSMEC65**
Plain cable gland plate	1600	400	2x **NSYSMEC84**
Plain cable gland plate	1600	500	2x **NSYSMEC85**
Plain cable gland plate	1600	600	2x **NSYSMEC86**

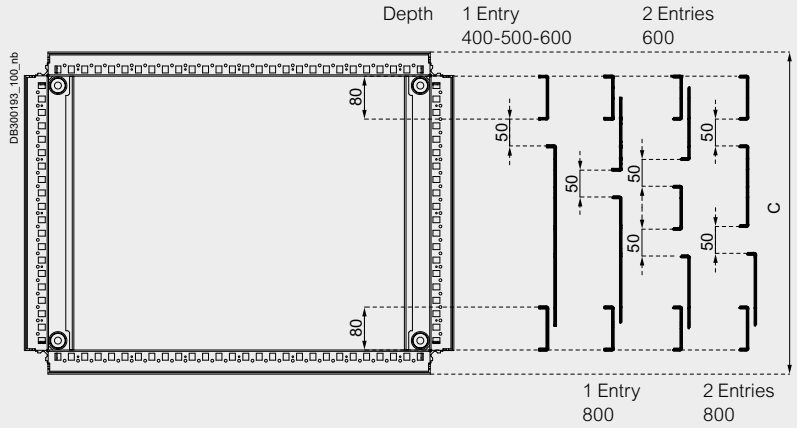
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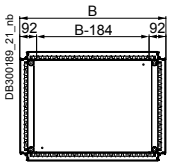
Cable Management Accessories

Cable Gland Plates

Plain Cable Gland Plate

Possibilities of Cable Gland Plate Adjustment

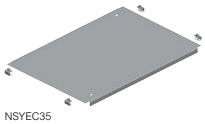




SFN MCC SFN IT

- The design of the compact cable gland plate, coupled with the use of the sealing gasket **NSYCEK** provide IP55.
- Material: Galvanized steel
- Thicknesses: 15/10^{e} mm
- Ingress protection rating: IP55 according to IEC 60529 (with the gasket)

Supply:
Plain plate and fixing elements


NSYEC35

Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Plain cable gland plate	300	500	**NSYEC35**
Plain cable gland plate	300	600	**NSYEC36**
Plain cable gland plate	400	400	**NSYEC44**
Plain cable gland plate	400	500	**NSYEC45**
Plain cable gland plate	400	600	**NSYEC64**
Plain cable gland plate	400	800	**NSYEC84**
Plain cable gland plate	600	400	**NSYEC64**
Plain cable gland plate	600	500	**NSYEC65**
Plain cable gland plate	600	600	**NSYEC66**
Plain cable gland plate	600	800	**NSYEC68**
Plain cable gland plate	600	1000	**NSYEC610**
Plain cable gland plate	800	400	**NSYEC84**
Plain cable gland plate	800	500	**NSYEC85**
Plain cable gland plate	800	600	**NSYEC86**
Plain cable gland plate	800	800	**NSYEC88**
Plain cable gland plate	800	1000	**NSYEC810**
Plain cable gland plate	1000	400	**NSYEC104**
Plain cable gland plate	1000	500	**NSYEC105**
Plain cable gland plate	1000	600	**NSYEC106**
Plain cable gland plate	1000	800	**NSYEC108**
Plain cable gland plate	1200	400	**NSYEC124**
Plain cable gland plate	1200	500	**NSYEC125**
Plain cable gland plate	1200	600	**NSYEC126**
Plain cable gland plate	1200	800	**NSYEC128**
Plain cable gland plate	1600	400	**NSYEC164**
Plain cable gland plate	1600	500	**NSYEC165**
Plain cable gland plate	1600	600	**NSYEC166**

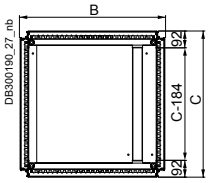
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Cable Management Accessories

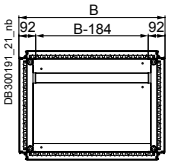
Cable Gland Plates

Plate with 1 Entry

SFN | MCC | SFN IT



Enclosures of 300 and 400 mm width.



Enclosures of 600, 800, 1000 and 1200 mm width.

- Facilitates the entry of cables thanks to a longitudinal opening.
- Material: Galvanized steel
- Thicknesses: 15/10e mm

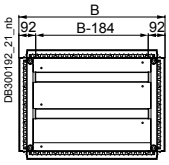
Supply:
Plate with 1 entry; Self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (helps guarantee good sealing) and fixing elements


NSYEC351

Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Plate with 1 entry	300	500	**NSYEC351**
Plate with 1 entry	300	600	**NSYEC361**
Plate with 1 entry	400	400	**NSYEC441**
Plate with 1 entry	400	500	**NSYEC451**
Plate with 1 entry	400	600	**NSYEC461**
Plate with 1 entry	400	800	**NSYEC481**
Plate with 1 entry	600	400	**NSYEC641**
Plate with 1 entry	600	500	**NSYEC651**
Plate with 1 entry	600	600	**NSYEC661**
Plate with 1 entry	600	800	**NSYEC681**
Plate with 1 entry	600	1000	**NSYEC6101**
Plate with 1 entry	800	400	**NSYEC841**
Plate with 1 entry	800	500	**NSYEC851**
Plate with 1 entry	800	600	**NSYEC861**
Plate with 1 entry	800	800	**NSYEC881**
Plate with 1 entry	800	1000	**NSYEC8101**
Plate with 1 entry	1000	400	**NSYEC1041**
Plate with 1 entry	1000	500	**NSYEC1051**
Plate with 1 entry	1000	600	**NSYEC1061**
Plate with 1 entry	1000	800	**NSYEC1081**
Plate with 1 entry	1200	400	**NSYEC1241**
Plate with 1 entry	1200	500	**NSYEC1251**
Plate with 1 entry	1200	600	**NSYEC1261**
Plate with 1 entry	1200	800	**NSYEC1281**
Plate with 1 entry	1600	400	**NSYEC1641**
Plate with 1 entry	1600	500	**NSYEC1651**
Plate with 1 entry	1600	600	**NSYEC1661**

Plate with 2 Entries

SFN | MCC | SFN IT



- Cable entry for very deep enclosures (600 and 800 mm).
- Two longitudinal openings allowing a large number of cables through.
- Material: Galvanized steel
- Thicknesses: 15/10e mm

Supply:
1 plate with 2 entries; Polyurethane adhesive gasket with cross-section of 15 x 25 mm (helps guarantee good sealing) and fixing elements


NSYEC662

Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Plate with 2 entries	400	600	**NSYEC462**
Plate with 2 entries	400	800	**NSYEC482**
Plate with 2 entries	600	600	**NSYEC662**
Plate with 2 entries	600	800	**NSYEC682**
Plate with 2 entries	600	1000	**NSYEC6102**
Plate with 2 entries	800	600	**NSYEC862**
Plate with 2 entries	800	800	**NSYEC882**
Plate with 2 entries	800	1000	**NSYEC8102**
Plate with 2 entries	1000	600	**NSYEC1062**
Plate with 2 entries	1000	800	**NSYEC1082**
Plate with 2 entries	1200	600	**NSYEC1262**
Plate with 2 entries	1200	800	**NSYEC1282**
Plate with 2 entries	1600	600	**NSYEC1662**

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Cable Management Accessories

Cable Gland Plates

Brush-Type Cable Entry Gasket

SFN

- For plates with 1 or 2 cable entries.
- The cables can have different diameters.
- No IP degree of protection



NSYBCE6

Characteristics	Width (mm)	References
PanelSeT SFN Brush-type cable entry gasket	600	**NSYBCE6**
PanelSeT SFN Brush-type cable entry gasket	800	**NSYBCE8**
PanelSeT SFN Brush-type cable entry gasket	1000	**NSYBCE10**
PanelSeT SFN Brush-type cable entry gasket	1200	**NSYBCE12**
PanelSeT SFN Brush-type cable entry gasket	1600	**NSYBCE16**

SM

- Brush-type gasket for installation on the cable gland plates.
- The cables can have different diameters.
- No IP degree of protection



NSYSMBCE6

Characteristics	Width (mm)	References
PanelSeT SM-Brush-type cable entry gasket	600	**NSYSMBCE6**
PanelSeT SM-Brush-type cable entry gasket	800	**NSYSMBCE8**
PanelSeT SM-Brush-type cable entry gasket	1000	**NSYSMBCE10**
PanelSeT SM-Brush-type cable entry gasket	1200	2x **NSYSMBCE6**
PanelSeT SM-Brush-type cable entry gasket	1600	2x **NSYSMBCE8**

Foam Cable Entry Gasket

SFN

- Spare gasket, made from self-extinguishing expanded polyurethane with a cross-section of 15 x 25 mm, for fixing on cable gland plates.

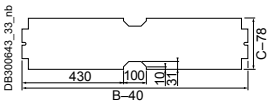


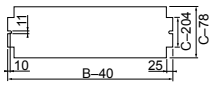
NSYCEJ

Characteristics	References
PanelSeT SFN Foam cable entry gasket	**NSYCEJ**

Plain Cable Entry Plate

PLAZ PLAZT





- Easy drilling in specific customized version.
- Not compatible with: Adapter plates, step slides, internal door and chassis for modular distribution.
- Material: Polyester reinforced with fiberglass
- Thickness: 4 mm

Supply:
Delivered with the fixings required for installation



NSYECPLAZ53G

Characteristics	Width (mm)	Depth (mm)	References
Plain cable entry plate	500	320	**NSYECPLAZ53G**
Plain cable entry plate	500	420	**NSYECPLAZ54G**
Plain cable entry plate	750	320	**NSYECPLAZ73G**
Plain cable entry plate	750	420	**NSYECPLAZ74G**
Plain cable entry plate	1000	320	**NSYECPLAZ103G**
Plain cable entry plate	1000	420	**NSYECPLAZ104G**
Plain cable entry plate	1250	320	**NSYECPLAZ123G**
Plain cable entry plate	1250	420	**NSYECPLAZ124G**

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Cable Management Accessories

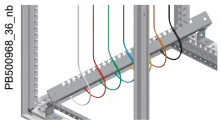
Cable Holding

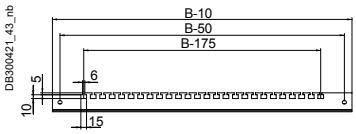
Lower Cable-Guide Cross-Rail

SM SFN SMX SFX

- It allows the quick fixing of cables entering and exiting the enclosure.
- Depth adjustable every 25 mm.
- Material: Galvanized steel

Fixing:
- PanelSeT SFN: for suitable enclosures with widths of 1200 and 1600 mm, use the adaptation kit for two-door suitable enclosures, see page 497
- PanelSeT SM: for floor-standing enclosures with a width of 1200 mm, a top/bottom mounting rail installed in central position is required
- PanelSeT SFX: no adaptation piece is required for the 1200 mm suitable enclosures
- PanelSeT SMX: no adaptation piece is required for the 1600 mm floor-standing enclosures





Supply:
1 cable-guide cross-rail and fixing elements


NSYCFP60

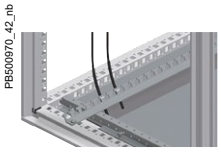
Characteristics	Width (mm)	References
Lower cable-guide cross-rail	600	**NSYCFP60**
Lower cable-guide cross-rail	800	**NSYCFP80**
Lower cable-guide cross-rail	1000	**NSYCFP100**
Lower cable-guide cross-rail	1200	2x **NSYCFP60**
Lower cable-guide cross-rail	1600	2x **NSYCFP80**

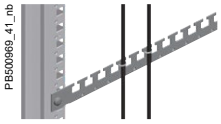
Cable-Guide Cross-Rails for Framework

SM SFN SMX SFX

Support types:
- Angle support at 90°: For vertical cable fixing.
- Angle support at 120°: For fixing cables near the cable entry.
- Material: Galvanized steel

Fixing:
- PanelSeT SFN and SFX: support for direct mounting on the framework, cross-rails or rails
- PanelSeT SM: fixing on the bottom mounting rail, or on the floor-standing enclosure by means of adaptation rails and 40 mm universal cross-rails (1 row) in vertical position
- PanelSeT SMX: fixing on the bottom mounting rail and 40 mm universal cross-rails (1 row) in vertical position





Supply:
2 supports and fixing elements


NSYCFS96

Characteristics	Support angle	Width (mm)	Refere nces
Cable-guide cross-rails for framework	90°	600	**NSYCFS96**
Cable-guide cross-rails for framework	120°	600	**NSYCFS126**
Cable-guide cross-rails for framework	90°	800	**NSYCFS98**
Cable-guide cross-rails for framework	120°	800	**NSYCFS128**

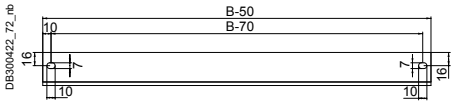
L-Rail for Fixing Cables

SM SFN SMX SFX

- Rail for fixing cables entering from the bottom.
- Adjustable depth with a pitch of 25 mm.
- It is not possible to mount it on a plinth cross-rail.
- Material: Galvanized steel

Fixing:
- PanelSeT SFN and SFX: fixing to the bottom frame, above the cable entry, or else to the plinth, using the plinth cross-rails, see page 530
- PanelSeT SM/SMX: fixing to the bottom adjustment rails, above the cable entry, or else to the plinth, using the plinth cross-rails, see page 530
- The cables are fixed to the rail by means of metal clamps







Supply:
One rail, two mounting supports and fixing elements


NSYFCG60

Characteristics	Width (mm)	References
L-rail for fixing cables	600	**NSYFCG60**
L-rail for fixing cables	800	**NSYFCG80**
L-rail for fixing cables	1000	**NSYFCG100**

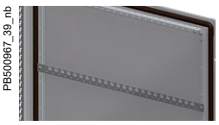
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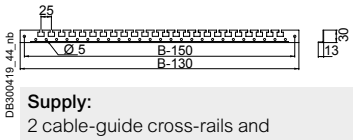
Cable Management Accessories

Cable Holding

Door Cable-Guide Cross-Rail

SM SFN SMX SFX





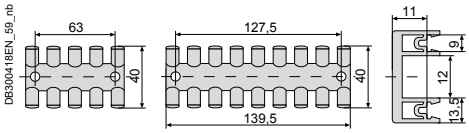
- Recommended for fixing cables in the internal equipment of the door.
- Height adjustable every 25-mm.
- Material: Galvanized steel
- Fixing: Direct fixing on the reinforcement frame

Supply:
2 cable-guide cross-rails and fixing elements


NSYSDGCR5

Characteristics	Width (mm)	References
Door cable-guide cross-rail	600	**NSYSDGCR5**
Door cable-guide cross-rail	600	**NSYSDGCR6**
Door cable-guide cross-rail	800	**NSYSDGCR8**

Plastic Cable Support



Supply:
10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)

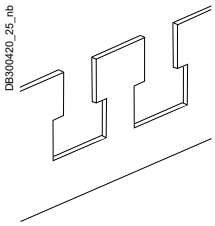

NSYSCCDINLG75

- It clips or screws onto 35-mm symmetric rails or a C-shaped rail.
- Fixing: Quick and easy fixing of cables using cable ties

Characteristics	Max. number of cables	Width (mm)	References
Plastic cable support	5	75	**NSYSCCDINLG75**
Plastic cable support	9	140	**NSYSCCDINLG140**

Door Cable-Guide Cross-Rails for Wall-Mounted Enclosures

CRN S3D S3X





- They are installed on wall-mounted enclosures with heights from 400 mm for PanelSeT S3D and 500 mm for PanelSeT S3X.
- They make it easy to equip the inside of the door.
- Installation cable ties.
- Fixing: They are fixed to the door reinforcement frame by 2 self-tapping screws. The angle can be directed towards the body of the enclosure or towards the door

Supply:
2 cable-guide cross-rails and fixing elements



NSYTFPCRN4

Characteristics	Width (mm)	References
Door cable-guide cross-rails for wall-mounted enclosures	400	**NSYTFPCRN4**
Door cable-guide cross-rails for wall-mounted enclosures	500	**NSYTFPCRN5**
Door cable-guide cross-rails for wall-mounted enclosures	600	**NSYTFPCRN6**
Door cable-guide cross-rails for wall-mounted enclosures	800	**NSYTFPCRN8**
Door cable-guide cross-rails for wall-mounted enclosures	1000	**NSYTFPCRN10**

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Cable Management Accessories

Ducts

Corrugated Cable Tube

SBM CRN S3D SM SFN PLS PLM PLA S3CM

- Corrugated tube allowing cable entry between the structure and the door.
- Free from halogens and heavy metals.
- UV protection.
- Material: Low-density polyethylene (LDPE)
- Color: Black


NSYCPT37

Supply:
One 25 m reel

Characteristics	Ø Nominal (mm)	Ø Inner (mm)	Ø Outer (mm)	References
Corrugated cable tube	37	36	42.4	**NSYCPT37**

Fixing Support for Corrugated Tube

SM SFN PLS PLA PLM


NSYCPTS37

- Mounting options: Directly on the enclosure, on a 19" swing rack and/or on cross-rails, by means of a fixing point.
- The supports can be assembled with one another to form sets of tubes that allow a better arrangement of the cables.
- It allows the rotation of the tube once it is fixed on the support and helps prevent the corrugated tube from coming loose if subject to pulling movements.
- Material: Polyamide (PA), black.


NSYCPTS17_nb

Supply:
10 units and fixing elements.
The support is supplied with its cover.

Characteristics	Model (nominal Ø)	References
Fixing support for corrugated tube	37	**NSYCPTS37**

Spiral Cable Duct

SBM CRN S3D SM SFN PLS PLM PLA S3CM

- Spiral strip for bundling cables.
- Allows cables to enter between the body and the door.
- Color: Colorless


NSYTC12100

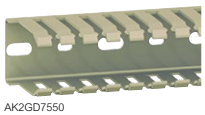
Supply:
One 50 m reel

Characteristics	Tightening range (mm)	Ø Inner (mm)	Ø Outer (mm)	References
Corrugated cable tube	12 to 100	9	12	**NSYTC12100**

Cable-Duct

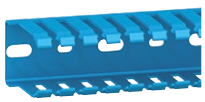
CRN S3D PLS PLM PLA

- Temperature resistance: -5 ... +60 °C
- Behaviour in fire: Material V0 according to UL 94
- Fire resistance: 960 °C according to IEC 60695-2-1/1
- Maximum capacity of H07.V.K 1.5 mm² flexible cable (filling factor: 0.6)
- With lateral through slots and rear perforations.
- Material: Rigid PVC
- Color: RAL 7030 gray or RAL 5000 blue
- Standards: Compliance with standards VDE 0660/506 and DIN 43659


AK2GD7550

Supply:
8 units. Supplied in lengths of 2 m

Characteristics	Width (mm)	Height (mm)	Color	References
Cable-duct	25	25	Gray	**AK2GD2525**
Cable-duct	25	50	Gray	**AK2GD2550**
Cable-duct	37.5	50	Gray	**AK2GD3750**
Cable-duct	37.5	75	Gray	**AK2GD3775**
Cable-duct	50	50	Gray	**AK2GD5050**
Cable-duct	50	75	Gray	**AK2GD5075**
Cable-duct	75	50	Gray	**AK2GD7550**
Cable-duct	75	75	Gray	**AK2GD7575**
Cable-duct	100	75	Gray	**AK2GD10075**
Cable-duct	125	75	Gray	**AK2GD12575**
Cable-duct	30	35	Blue	**AK2GA33**
Cable-duct	30	55	Blue	**AK2GA35**
Cable-duct	30	90	Blue	**AK2GA39**
Cable-duct	30	144	Blue	**AK2GA315**
Cable-duct	60	55	Blue	**AK2GA65**
Cable-duct	60	90	Blue	**AK2GA69**
Cable-duct	60	144	Blue	**AK2GA615**


AK2GA65

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Covers for Cable-Duct

CRN S3D PLS PLM PLA

- Temperature resistance: -5 ... +60 °C
- Behaviour in fire: Material V0 according to UL 94
- Fire resistance: 960 °C according to IEC 60695-2-1/1
- Maximum capacity of H07.V.K 1.5 mm² flexible cable (filling factor: 0.6)
- Replacement covers.
- Material: Rigid PVC
- Color: RAL 7030 gray or RAL 5000 blue
- Standards: Compliance with standards VDE 0660/506 and DIN 43659

Supply:
8 units. Supplied in lengths of 2 m



AK2CD75

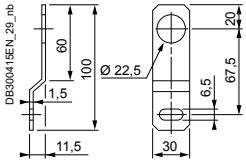


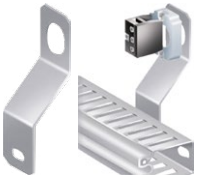
AK2CA6

Characteristics	Width (mm)	Height (mm)	Color	For Cable-duct Ref.	References
Covers for cable-duct	25	25	Gray	AK2GD2525	**AK2CD25**
Covers for cable-duct	25	50	Gray	AK2GD2550	**AK2CD25**
Covers for cable-duct	37.5	50	Gray	AK2GD3750	**AK2CD37**
Covers for cable-duct	37.5	75	Gray	AK2GD3775	**AK2CD37**
Covers for cable-duct	50	50	Gray	AK2GD5050	**AK2CD50**
Covers for cable-duct	50	75	Gray	AK2GD5075	**AK2CD50**
Covers for cable-duct	75	50	Gray	AK2GD7550	**AK2CD75**
Covers for cable-duct	75	75	Gray	AK2GD7575	**AK2CD75**
Covers for cable-duct	100	75	Gray	AK2GD10075	**AK2CD100**
Covers for cable-duct	125	75	Gray	AK2GD12575	**AK2CD125**
Covers for cable-duct	30	35	Blue	AK2GA33	**AK2CA3**
Covers for cable-duct	30	55	Blue	AK2GA35	**AK2CA3**
Covers for cable-duct	30	90	Blue	AK2GA39	**AK2CA3**
Covers for cable-duct	30	144	Blue	AK2GA315	**AK2CA3**
Covers for cable-duct	60	55	Blue	AK2GA65	**AK2CA6**
Covers for cable-duct	60	90	Blue	AK2GA69	**AK2CA6**
Covers for cable-duct	60	144	Blue	AK2GA615	**AK2CA6**

Ø 22 mm Cable-Duct Support

SBM CRN S3D PLS PLM PLA S3CM





NSYSPCP

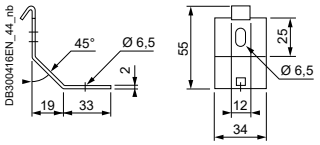
- Installed on the door of the wall-mounted or floor-standing enclosure combined with Ø 22 mm elements.
- Material: Treated steel

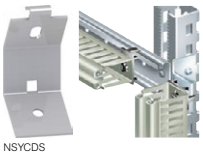
Supply:
10 units. Reference by unit.
Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Ø 22 mm cable-duct support	**NSYSPCP**

Cable-duct Support on Technical Upright

SM SFN SMX SFX PLA SD





NSYCDS

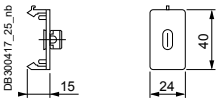
- Allows cable ducts to be installed on technical uprights, while increasing the usable surface of the equipment (up to 20% according to the width of the cable duct).
- Material: Galvanized steel

Supply:
10 units. Reference by unit.
Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Cable-duct support on technical upright	**NSYCDS**

Plastic Cable-Duct Support

SBM CRN S3D PLS PLM PLA S3CM





NSYSPC

- Clips onto the Telequick mounting plate or the 35-mm DIN rail.
- Includes a screw for fixing the cable ducts through the 6.5 x 14 mm drill holes made in the back.
- The 2 functions, clipping and bolting, provide considerable time savings.
- Respects electrical insulation.
- Material: Black polyamide.

Supply:
20 units. Reference by unit.
Order by multiples of 20 (20, 40, 60...)

Characteristics		References
Plastic cable-duct support		**NSYSPC**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Door Accessories

Doors

Internal Door

CRN S3D S3X

- Locking with 3-mm double-bar lock.
- The internal door can be installed directly on the front face of the enclosure or on the step slides (not supplied as standard).
- To mount an internal door and a mounting plate at the same time on the step slides is possible as standard.
- Incompatible with the installation of the door stop and door switch.
- For further details, please consult us.
- Material: Steel
- Color: RAL 7035 gray
- Maximum load: 30 kg/m²



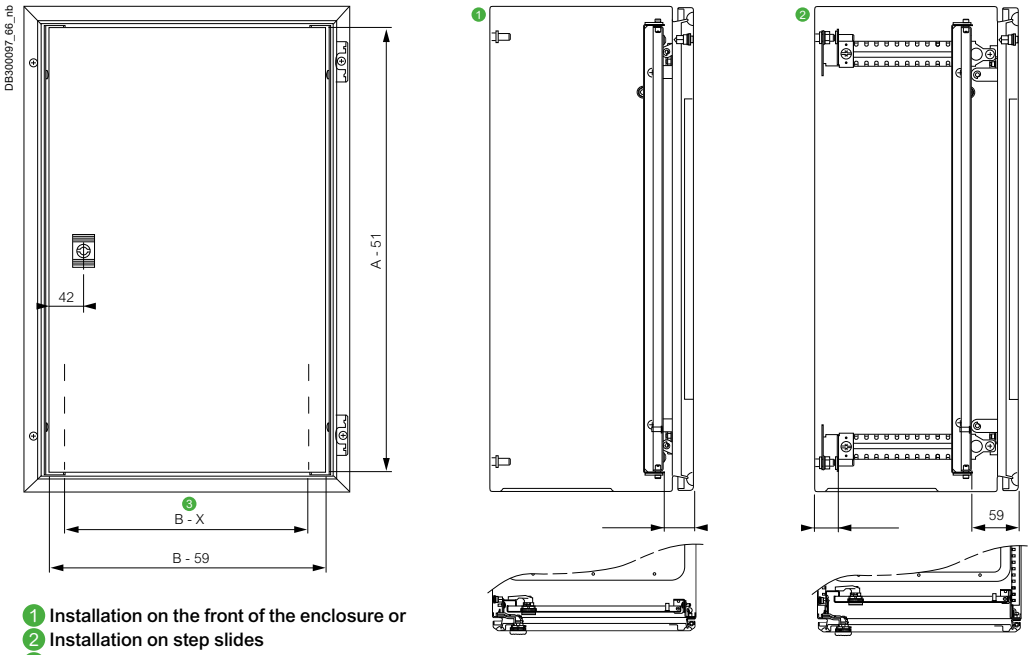
NSYPIN43



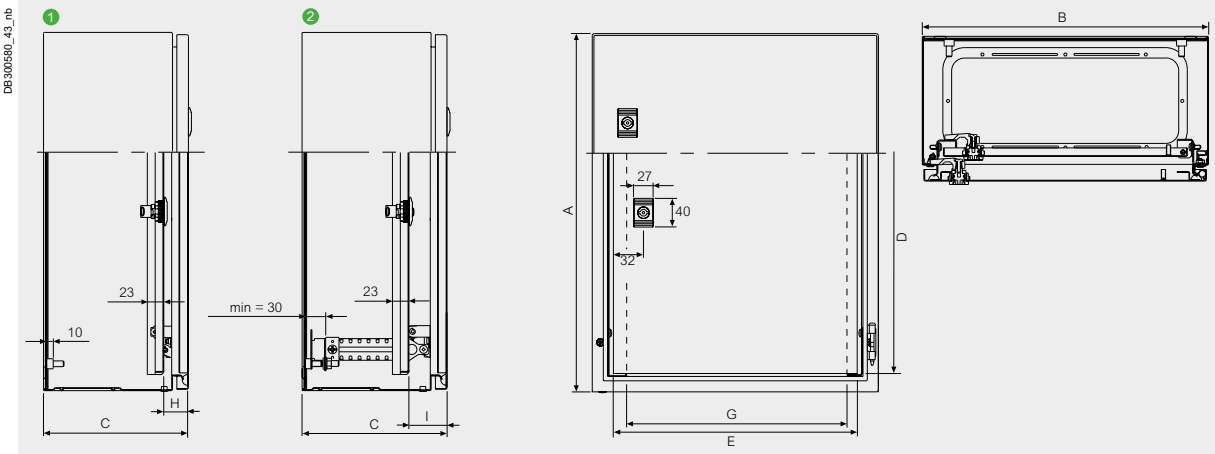
NSYPIN43

Note:
(1) Equipped with welded vertical profiles in order to facilitate cable management.

Characteristics	High (mm)	Width (mm)	References
Internal door	400	300	**NSYPIN43**
Internal door	500	400	**NSYPIN54**
Internal door	600	400	**NSYPIN64**
Internal door	700	500	**NSYPIN75**
Internal door	800	600	**NSYPIN86** (1)
Internal door	1000	600	**NSYPIN106** (1)
Internal door	1000	800	**NSYPIN108** (1)
Internal door	1200	600	**NSYPIN126**
Internal door	1200	800	**NSYPIN128** (1)



1 **Installation on the front of the enclosure or**
2 **Installation on step slides**
3 Dimension resulting from installation on step slides: B-83 mm.
Dimension resulting from direct installation (without step slides): B-91 mm



1 **NSYPIN** internal door fixed directly to the enclosure.

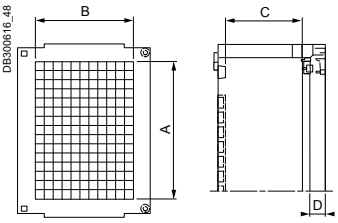
2 **NSYPIN** internal door fixed to the adjustable **NSYSDCR●●** support. In this case, internal door and mounting plate can be adjusted in depth.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Internal Door

PLM

- Reversible door.
- Grid pattern with a pitch of 25 mm for easier marking before drilling.
- Closes with 2 double-bar locks.
- Door handle.
- Steel internal door, without grid pattern and locking by a screw, for enclosures ref. **NSYPLM3025G**.
- Incompatible with the modular distribution chassis.
- Material: Polyester reinforced with fiberglass, self-extinguishing
- Color: RAL 7035 gray



Supply:
Delivered with fixings and brass inserts

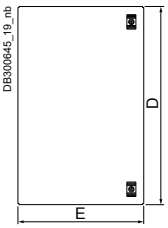


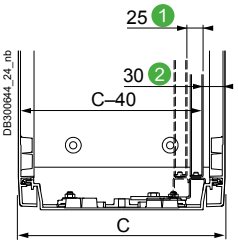
NSYPA3025PLMG

Characteristics	Height (mm)	Width (mm)	A (mm)	B (mm)	C (mm)	D Plain door (mm)	D Transp. door (mm)	Reference
Internal door	308	255	248	165	62	76	71	**NSYPA3025PLMG**
Internal door	430	330	315	205	152	26	21	**NSYPAP43G**
Internal door	530	430	415	305	152	26	21	**NSYPAP54G**
Internal door	645	435	515	305	194	32	27	**NSYPAP64G**
Internal door	745	535	615	405	244	32	27	**NSYPAP75G**
Internal door	845	635	715	505	244	32	27	**NSYPAP86G**
Internal door	1055	850	850	650	269	37	32	**NSYPAP108G**

PLA

- Designed for direct installation in enclosures with sealed bottom part. In the enclosures with the bottom part open, installation can be Performed by ordering the necessary adapter plates, ref. **NSYPTZ●●●**.
- Two depthwise mounting positions (two positions for depthwise installation) according to the chosen M8 impressions, on the top and bottom parts of the enclosure, for fixing.
- Lock with 5-mm double-bar inserts.
- Not compatible with: Modular distribution chassis, 19" chassis, cable entry plate and door retainer, ref. **NSYRETPLAU**.
- Material: Aluminum
- Color: RAL 7035 gray





1 Two positions for depthwise installation
2 The 2nd position moves the position of the internal door back by 25 mm

Supply:
Delivered with M8 brass inserts and fixings



PB502906_22_nb



PB502912_25_nb

Characteristics	Dimensions		Internal door dimensions		References
	Height (mm)	Width (mm)	D (mm)	E (mm)	
Internal door	500	500	398	398	**NSYPAPLA55G**
Internal door	500	750	398	648	**NSYPAPLA57G**
Internal door	500	1000	398	796 (2 x 398)	2 x **NSYPAPLA55G**
Internal door	500	1250	398	1046 (398 + 648)	**NSYPAPLA55G** + **NSYPAPLA57G**
Internal door	750	500	648	398	**NSYPAPLA75G**
Internal door	750	750	648	648	**NSYPAPLA77G**
Internal door	750	1000	648	796 (2 x 398)	2 x **NSYPAPLA75G**
Internal door	750	1250	648	1046 (398 + 648)	**NSYPAPLA75G** + **NSYPAPLA77G**
Internal door	1000	500	898	398	**NSYPAPLA105G**
Internal door	1000	750	898	648	**NSYPAPLA107G**
Internal door	1000	1000	898	796 (2 x 398)	2 x **NSYPAPLA105G**
Internal door	1000	1250	898	1046 (398 + 648)	**NSYPAPLA105G** + **NSYPAPLA107G**
Internal door	1250	500	1148	398	**NSYPAPLA125G**
Internal door	1250	750	1148	648	**NSYPAPLA127G**
Internal door	1250	1000	1148	796 (2 x 398)	2 x **NSYPAPLA125G**
Internal door	1250	1250	1148	1046 (398 + 648)	**NSYPAPLA125G** + **NSYPAPLA127G**
Internal door	1500	500	1398	398	**NSYPAPLA155G**
Internal door	1500	750	1398	648	**NSYPAPLA157G**
Internal door	1500	1000	1398	796 (2 x 398)	2 x **NSYPAPLA155G**
Internal door	1500	1250	1398	1046 (398 + 648)	**NSYPAPLA155G** + **NSYPAPLA157G**

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Door Accessories

Doors

Internal Door

SM SFN

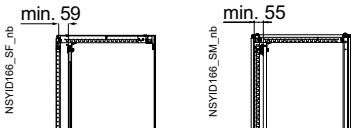


NSYID166



NSYID166

- Door for additional protection. Helps prevent the switchgear from being manipulated by unauthorised personnel.
- Allows the installation of switchgear mounted directly on the door.
- Mounting on the top and bottom frame of the enclosure.
- Depth adjustable with a pitch of 25 mm, from the first fixing point.
- Opening to right or left, with two locks, 3-mm double-bar, with central handle.
- Reinforcement frames on the rear, cut-outs with a 25 mm pitch, for equipping the door.
- Maximum acceptable load: 15 kg.
- Internal doors can be mounted in our stainless-steel floor-standing enclosures (SFX and SMX).
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray



Comment:
For dimensions see page 82

Supply:
One internal door and fixing elements

Characteristics	Height (mm)	Width (mm)	References
Internal door	1600	600	**NSYID166**
Internal door	1600	800	**NSYID168**
Internal door	1800	600	**NSYID186**
Internal door	1800	800	**NSYID188**
Internal door	1800	1000	**NSYID1810**
Internal door	2000	600	**NSYID206**
Internal door	2000	800	**NSYID208**
Internal door	2000	1000	**NSYID2010**

Side Door

SFN



- Door for the side of the enclosure, can replace the panels.
- Installation directly on the structure of the enclosure, opening 120°.
- Lock with handle and 5-mm double-bar insert. 4 locking points.
- Reinforcement frame, cut-out with a pitch of 25 mm.
- Opening to right or left.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray

Supply:
One side door, four hinges, four catches, bottom trim and handle lock



NSYSFND188

Characteristics	Height (mm)	Depth (mm)	References
Side door	1200	600	**NSYSFND126**
Side door	1200	800	**NSYSFND128**
Side door	1400	600	**NSYSFND146**
Side door	1400	800	**NSYSFND148**
Side door	1600	600	**NSYSFND166**
Side door	1600	800	**NSYSFND168**
Side door	1800	400	**NSYSFND184**
Side door	1800	500	**NSYSFND185**
Side door	1800	600	**NSYSFND186**
Side door	1800	800	**NSYSFND188**
Side door	2000	400	**NSYSFND204**
Side door	2000	500	**NSYSFND205**
Side door	2000	600	**NSYSFND206**
Side door	2000	800	**NSYSFND208**
Side door	2200	400	**NSYSFND224**
Side door	2200	500	**NSYSFND225**
Side door	2200	600	**NSYSFND226**
Side door	2200	800	**NSYSFND228**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Partial Doors

NOTICE

PROTECTION RATING DECREASE

Enclosure ingress protection rating decreases to IP54 according to IEC 60529 when installing any type of partial door.

Failure to follow these instructions can result in equipment damage.

Front Fix Panel for Modularity

SM SFN MCC

- Top and bottom fix panel to obtain modularity required to install partial doors.
- It is needed to purchase **NSYMICN6** and **NSYMICN8**.
- Height 100 mm fixed panels are delivered as standard for PanelSeT SFN compartmentalized enclosures for Motor Control Centers.
- Option to order it separately for PanelSeT SFN framework in kit supply.
- Available in 2 heights (mm).
- Color: RAL 7035 gray.
- Finish: Epoxy-polyester powder.

Supply:
2 crossbars with 2 front fix panels



NSYMFP2M6

Characteristics	Height (mm)	Width (mm)	References
Front Fix panel for modularity	100	600	**NSYMFP2M6**
Front Fix panel for modularity	250	600	**NSYMFP5M6**
Front Fix panel for modularity	100	800	**NSYMFP2M8**
Front Fix panel for modularity	250	800	**NSYMFP5M8**

Frontal Partial Doors

SM SFN MCC

- Plain partial door with lock 5-mm double-bar insert.
- They are fixed to the uprights of the framework by means of hinges.
- Drilling template for uprights ref. **NSYMDT** (only one drilling template required per order).
- Opening to right or left.
- 1, 2 or 4 locking points depending on height.
- Option to replace locking insert.
- Available in following heights (mm).
- Color: RAL 7035 gray.
- Finish: Epoxy-polyester powder.



NSYMPD3M6

Characteristics	Height (mm)	Width (mm)	References
Frontal partial door	150	600	**NSYMPD3M6**
Frontal partial door	200	600	**NSYMPD4M6**
Frontal partial door	250	600	**NSYMPD5M6**
Frontal partial door	300	600	**NSYMPD6M6**
Frontal partial door	400	600	**NSYMPD8M6**
Frontal partial door	450	600	**NSYMPD9M6**
Frontal partial door	600	600	**NSYMPD12M6**
Frontal partial door	800	600	**NSYMPD16M6**
Frontal partial door	900	600	**NSYMPD18M6**
Frontal partial door	1000	600	**NSYMPD20M6**
Frontal partial door	1200	600	**NSYMPD24M6**
Frontal partial door	150	800	**NSYMPD3M8**
Frontal partial door	200	800	**NSYMPD4M8**
Frontal partial door	250	800	**NSYMPD5M8**
Frontal partial door	300	800	**NSYMPD6M8**
Frontal partial door	400	800	**NSYMPD8M8**
Frontal partial door	450	800	**NSYMPD9M8**
Frontal partial door	600	800	**NSYMPD12M8**
Frontal partial door	800	800	**NSYMPD16M8**
Frontal partial door	900	800	**NSYMPD18M8**
Frontal partial door	1000	800	**NSYMPD20M8**
Frontal partial door	1200	800	**NSYMPD24M8**

Frontal Transparent Partial Doors

SM SFN MCC

- Glazed (Securit glass) partial door with lock 5-mm double-bar insert.
- They are fixed to the uprights of the framework by means of hinges.
- Opening to right or left.
- 1 or 2 locking points according different heights.
- Available in following heights (mm).
- Color: RAL 7035 gray.
- Finish: Epoxy-polyester powder.



NSYMPD46T

Characteristics	Height (mm)	Width (mm)	References
Frontal Transparent partial doors	400	600	**NSYMPD46T**
Frontal Transparent partial doors	600	600	**NSYMPD66T**
Frontal Transparent partial doors	800	600	**NSYMPD86T**
Frontal Transparent partial doors	1000	600	**NSYMPD106T**
Frontal Transparent partial doors	400	800	**NSYMPD48T**
Frontal Transparent partial doors	600	800	**NSYMPD68T**
Frontal Transparent partial doors	800	800	**NSYMPD88T**
Frontal Transparent partial doors	1000	800	**NSYMPD108T**

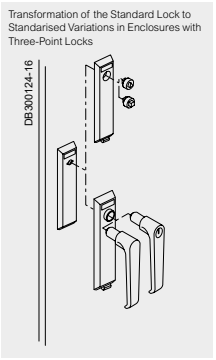
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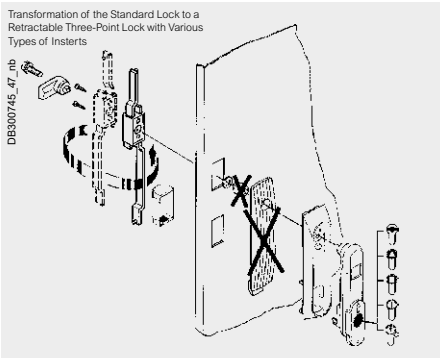
Door Accessories

Handles, Locks and Inserts

Lock for Panel**SeT** CRN Enclosure Three-Point Lock

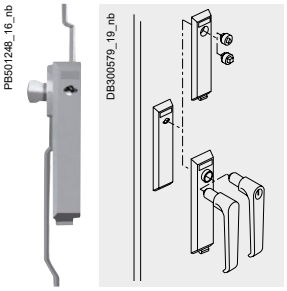
- Standard 5-mm double-bar lock for CRN for heights from 1200 mm and widths from 1000 mm.
- Operation using: Key **NSYLDB5** (according to DIN 43668)





Handle Locks for Transformation of the Standard Lock to Standardized Variations in Enclosures with Three-Point Locks

CRN S3X




NSYTSML

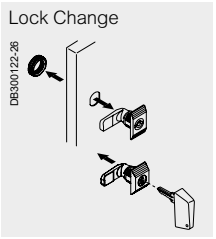
- Protection rating: IP66
- Compatible with PanelSeT S3X double-door enclosures

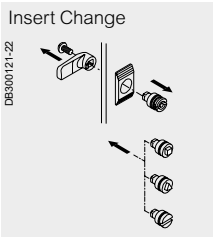
Characteristics	References
Handle lock	**NSYTSML**
Handle lock operated using key 405 (included)	**NSYTL405SML**

Simple lock for Panel**SeT** CRN Enclosure

- **NSYCDB3** 3 mm Ø standard double-bar lock for heights below 1200 mmand widths below 1000 mm.
- By fixing the wing nut to the lock, the double-bar lock becomes a handle lock.
- Operation using:
  wing key ref.: **NSYDBP**
  key **NSYLDB5** (according to DIN 43668)
- **NSYTDBCRN** delivered with 1 metal key









Complete Locks

CRN


NSYCL405CRN


NSYCLL405CRN

Characteristics	References
Complete manual handle lock, operated with key 405	**NSYCL405CRN**
Complete manual handle lock, operated with key 220	**NSYCL220CRN**
Complete metal lock, operated with key 405E	**NSYCLL405CRN**
Lock TJIS	**NSYTJIS**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Standard Locks

S3D

- PanelSeT S3D wall-mounted enclosures are supplied with a 3-mm double-bar lock as **standard**.
- Spare lock: Order ref. **NSYAEDLS3DRL** (escutcheon + cam + washer).
- Large range of standardised inserts covering all the most common needs.
- Installation and removal with a single screw.
- Material: Zamack + polyamide
- Ingress protection rating: IP66 according to IEC 60529

Supply:
Delivered with 1 plastic key



NSYAEDLS6S3D

Characteristics	References
7 mm square	**NSYAEDLS7S3D**
8 mm square	**NSYAEDLS8S3D**
3-mm double-bar	**NSYAEDLB3S3D**
5-mm double-bar	**NSYAEDLB5S3D**
CNOMO 6.5 mm triangular	**NSYAEDLT6S3D**
8 mm triangular	**NSYAEDLT8S3D**

Barrel DIN Kit

S3D

- Mounting of half-cylinder according to DIN 18252 (EN1303). Cam can be turned every 45°.
- Easy mounting instead of standard lock.
- Compatible with PLM barrels offer. See page 579. (Example: **NSYTL1242EME**).
- Material: Polyamide GF
- Ingress protection rating: IP66 according to IEC 60529

Supply:
Delivered with metal cam 1 point and metal cam 3 points



NSYAEDDINS3D

Characteristics	References
Barrel DIN kit	**NSYAEDDINS3D**

Double-Bar 3 mm Metal Lock

S3D

- Easy mounting instead of standard lock.
- Material: Zamak
- Ingress protection rating: IP66 according to IEC 60529

Supply:
Delivered with metal cam 1 point and metal cam 3 points



NSYAEDLB3MS3D

Characteristics	References
Double-bar 3 mm metal lock	**NSYAEDLB3MS3D**

Metal Cam Kit 1 Point and 3 Points

S3D

- To adapt other locks.
- Material: Zinc-coated metal





NSYAEDLMETS3D

Characteristics	References
Metal cam kit 1 point and 3 points	**NSYAEDLMETS3D**

Flat escutcheon lock





NSYSFLOCK24

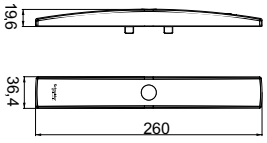


NSYSFLOCKT8



NSYSFLOCKT7

- Optional flat escutcheon lock. Replaces the handle lock.
- Easy to change the opening direction of the door, right/ left.
- Option of changing the turning direction of the insert.
- Handle material: Polyamide 6 with 30% fiberglass
- Color: RAL 9005
- Mechanical protection rating: IK10 according to IEC 62262
- Fire resistance: 650 °C



Supply:
Flat lock, shape insert, key and fixing elements

Characteristics	References
Flat lock + screwdriver slot, 2 mm groove	**NSYSFLOCK24**
Flat lock + 8 mm triangular insert	**NSYSFLOCKT8**
Flat lock + 7 mm triangular insert	**NSYSFLOCKT7**

6

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Door Accessories

Handles, Locks and Inserts

Standard Handle

S3D


NSYAEDLS3DKDB3

- Operating handle delivered with the enclosure.
- It can be attached to the locking system by means of a fixing element.
- It can also be used to loosen the caps helping protect the studs when painting.

Characteristics	References
Standard handle	**NSYAEDLS3DKDB3**

Standard Handles with Key

S3D


PB500347_35

- Attractive and ergonomic bi-material handle.
- Large range of barrels covering all the most common needs.
- The installation of the standard handle does not require the escutcheon to be removed.
- Locks may only be operated using the supplied keys.
- Delivery: Delivered with 2 keys


NSYAEDL1242S3D

Characteristics	References
405	**NSYAEDL405S3D**
421	**NSYAEDL421S3D**
455	**NSYAEDL455S3D**
520	**NSYAEDL520S3D**
601	**NSYAEDL601S3D**
610E	**NSYAEDL610S3D**
1242	**NSYAEDL1242S3D**
1332E	**NSYAEDL1332S3D**
2124E	**NSYAEDL2124S3D**
2131A	**NSYAEDL2131S3D**
2132A	**NSYAEDL2132S3D**
2133A	**NSYAEDL2133S3D**
2241A	**NSYAEDL2241S3D**
2331A	**NSYAEDL2331S3D**
2432E	**NSYAEDL2432S3D**
2433A	**NSYAEDL2433S3D**
3113A	**NSYAEDL3113S3D**
3123E	**NSYAEDL3123S3D**
3131A	**NSYAEDL3131AS3D**
3132A	**NSYAEDL3132S3D**
3432E	**NSYAEDL3432S3D**
3524E	**NSYAEDL3524S3D**
4322A	**NSYAEDL4322S3D**
4324E	**NSYAEDL4324S3D**
5124A	**NSYAEDL5124S3D**

Other Locks with Keys

S3D


NSYAEDLEDF13S3D

- Material: Zamak
- Ingress protection rating: IP66 (IEC 60529)

Supply:
Delivered with metal cam 1 point and metal cam 3 points

Characteristics	References
EDF 900	**NSYAEDLEDF9S3D**
EDF 1300	**NSYAEDLEDF13S3D**
EDF 1400	**NSYAEDLEDF14S3D**

Padlocks

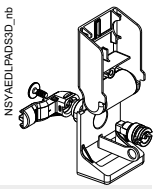
S3D S3HD


NSYAEDLPADS3D

For NSYAEDLPADS3D
- Easy mounting instead of the standard lock.
- Padlockable, diameter 8 mm
- Material: Zamak
- Ingress protection rating: IP66 (IEC 60529)

For NSYAEDLPADS3DHD
- Easy mounting instead of the standard lock.
- Material: Zamak
- Finish: Anti-corrosive painting

For NSYAEDLPADS3DK3
- Securing of enclosure access.
- Material: White galvanized steel


NSYAEDLPADS3D_nb

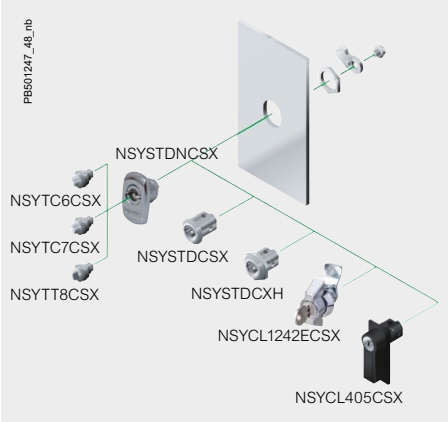
Supply:
NSYAEDLPADS3D: Delivered with metal key
NSYAEDLPADS3DHD: Delivered with 3-mm double-bar metal key

Characteristics	References
Padlock	**NSYAEDLPADS3D**
Heavy-Duty padlockable double lock	**NSYAEDLPADS3DHD**
Padlocking lug	**NSYAEDLPADS3DK3**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

1-Point-Lock Options

S3X




NSYSTDNCSX


NSYSTDCX2H


NSYCBXHCRN


NSYCL610CSX

- Protection rating: IP66
- For locks for double-door enclosures please contact us

Characteristics	Type	Material	References
Double-bar lock	Escutcheon with insert, 3 mm	Chrome-plated zamak	**NSYSTDNCSX**
Insert	Triangular, 8 mm	304L stainless-steel	**NSYTT8CSX**
Insert	Square, 7 mm	304L stainless-steel	**NSYTC7CSX**
Insert	Square, 6 mm	304L stainless-steel	**NSYTC6CSX**
Round lock	Round, 3 mm (spare)	Chrome-plated zamak	**NSYSTDCSX**
Round lock	Round, 3 mm	304L stainless-steel	**NSYSTDCXH**
Round lock	Round	316 stainless-steel, please contact us for availability	**NSYSTDCX2H**
Handle lock	Padlock	316 stainless-steel, please contact us for availability	**NSYCBXHCRN**
Handle lock	1242E	Chrome-plated zamak	**NSYCL1242ECSX**
Handle lock	405	Polyamide	**NSYCL405CSX**
Handle lock	610	Chromed zamak	**NSYCL610CSX**

Padlocks

CRN PLM


NSYKPLM NSYCBCCRN

Characteristics	References
Padlock device Ø 8 mm, stainless-steel	**NSYKPLM**
Padlock Ø 7.5 mm / Ø 10 mm	**NSYCBCCRN**

Padlocking Accessories

CRN PLM


NSYBCPL

- Padlocking system, positioned around the long rectangular escutcheon of the enclosures, to block access to the lock, for a Ø 9 mm padlock.

Characteristics	References
Padlock device for large rectangular escucheon	**NSYBCPL**

CRN SMX

SFX PLM


NSYBCME

- Padlocking system, to block access to the retractable handle, for a Ø 9 mm padlock.

Characteristics	References
Padlocking device for retractable handle	**NSYBCME**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Door Accessories

Handles, Locks and Inserts

Closing Locks

PLS


NSYCL27M


NSYCL27L405

- Option of installing a side lock on the opposite side to where the hinges are installed
- Ingress protection rating: IP43

Characteristics	Tool	References
Double-bar side lock and handle	NSYDBP	**NSYCL27M**
Side lock with key 405	Key 405	**NSYCL27L405**

Lock and key

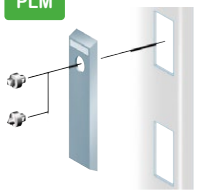
PLM


NSYTL405PLM

Characteristics	References
Lock and key 405	**NSYTL405PLM**
Lock and key 220	**NSYTL220PLM**

Locks and Inserts for Enclosures NSYPLM108/T

PLM

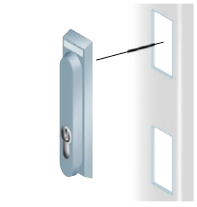

NSYTDB5PL

- Options to convert the insert
- The standard insert can be replaced with other shaped inserts according to the following table.

Characteristics	References
Double-bar insert	**NSYTDB5PL**

Locks and Inserts for Enclosures NSYPLM108/T

PLM


NSYTEDB5PL

- Options to convert to a retractable handle
- The escutcheon and rosette assembly can be replaced with a lock with retractable handle equipped with inserts or barrels according to the following table.

Characteristics	References
5-mm double-bar	**NSYTEDB5PL**
8 mm male triangle	**NSYTET8PL**
Lock key 1242 E	**NSYTEL1242EPL**
Barrel and key 405	**NSYTEL405PL**
JIS key and barrel	**NSYTELJISPL**
Manual	**NSYTEMPL**

Options to Convert the Locks to Double-Bar Inserts NSYPLM32G to NSYPLM86G

PLM


NSYTHL1242EPLM

- Replacement for locking handle with cylindrical barrel, delivered with all the parts required to change the lock.

Characteristics	References
Key 1242 E	**NSYTHL1242EPLM**
Key 405	**NSYTHL405PLM**
Key 421	**NSYTHL421PLM**
Key 455	**NSYTHL455PLM**
Key 2433 A	**NSYTHL2433APLM**
Key 3113 A	**NSYTHL3113APLM**
Manual	**NSYTHPLM**

6

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Transformation of the Standard Lock to a Retractable Three-Point Lock with Various Types of Insterts

CRN SFN SFN IT



NSYTEL405ML

Characteristics	Key references	References
Key operated bar lock	NSYLDB5	**NSYTEDB5ML**
Lock operated with key type 405		**NSYTEL405ML**
Lock operated with reinforced key		**NSYTERML**

Handle for Shaped Inserts and Cylindrical Barrels

SM SFN



NSYSFNHS1

- Easy to change the opening direction of the door, right/left.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- Handle material: Polyamide 6 with 30% fiberglass
- Color: RAL 9005
- Mechanical protection rating: IK10 according to IEC 62262
- Fire resistance: 650 °C

Supply:
Standard handle and fixing elements (insert not included)

Characteristics	References
Handle for shaped inserts and cylindrical barrels	**NSYSFNHS1**

Handles for Insert Types DIN, KABA, ASSA, Insert Handle

SM SFN



NSYSFHD2

- The inserts are easily and quickly mounted without any screws and allow the installation of profiled DIN, KABA and ASSA locks.
- To install shaped inserts or cylindrical barrels, it is necessary to add adapter ref. **NSYLADP**.
- Easy to change the opening direction of the door, right/left.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- Handle material: Polyamide 6 with fiberglass
- Color: RAL 9005 black
- Mechanical protection rating: IK10 according to IEC 62262
- Glow wire resistance: 650 °C

Supply:
One handle for DIN, KABA and ASSA inserts and fixing elements (insert not included)

Characteristics	References
Insert handle	**NSYSFHD2**

Handles for Insert Types DIN, KABA, ASSA, Double-Insert Handle

SM SFN



NSYSFHD3

- The double-insert handle can perform the "AND" and "OR" functions (are supplied with the handle).
  - "AND" function: One insert blocks the activation of the other insert.
  - "OR" function: Either insert can release the handle.
- Easy to change the opening direction of the door, right/left.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- To install shaped inserts or cylindrical barrels, it is necessary to add adapter ref. **NSYLADP**.
- Handle material: Polyamide 6 with fiberglass
- Color: RAL 9005 black
- Mechanical protection rating: IK10 according to IEC 62262
- Glow wire resistance: 650 °C.

Supply:
One handle for DIN, KABA and ASSA inserts and fixing elements (insert not included)

Characteristics	References
Double-insert handle	**NSYSFHD3**

Padlock Locking

Coming soon

SM SFN



NSYBLKHN123

- Padlock locking system, for installation in all the handles of the PanelSeT SFN and PanelSeT SM enclosures.
- Screw with 7.5 mm drill hole.

Supply:
One cut-out handle, screw for padlock and screw fixing screw

Characteristics	References
Padlock locking	**NSYBLKHN123**

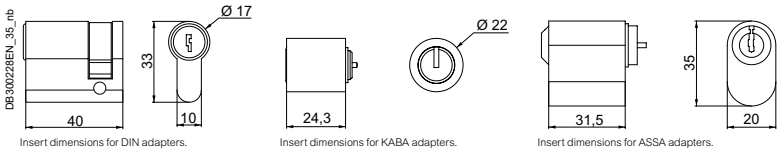
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Door Accessories

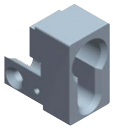
Handles, Locks and Inserts

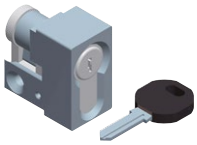
Lock System: DIN, KABA and ASSA

SM SFN PLA SD



Comment:
NSYINKBA2: Adapter for receiving the KABA8, KABA20 and KABA start cylinders.


NSYINDIN2


NSYIN1242E2

Characteristics	References
Adapter for DIN cylinder	**NSYINDIN2**
Adapter for KABA cylinder	**NSYINKBA2**
Adapter for ASSA cylinder	**NSYINASSA2**
1242E key lock	**NSYIN1242E2**
Reinforced key lock	**NSYINKR2**
JIS key lock	**NSYINKJIS2**
FAC key lock	**NSYINKFAC2**

Locks for Partial Doors

SFN PC

Locks to replace the 3-mm double-bar lock supplied with the partial doors.
Models:
- Transformation of lock with shaped inserts, triangular 6.5 mm and square 6 mm.
- Lock with 2233X key for partial doors.
- Lock with 2233X key, exclusive for hinged keyboard door.

Supply:
Lock with shaped inserts, triangular 6.5 mm and square 6 mm: Metal body, shape insert and safety washer.
Lock with 2233X key for partial doors: metal body, insert, screw, safety washer and key.
Lock with 2233X key, exclusive for hinged keyboard door: Metal body, insert, special screw, safety washer and key.


NSYMLT6

Characteristics	References
With 6.5 mm triangular insert for partial and hinged door	**NSYMLT6**
With 6 mm square insert for partial and hinged door	**NSYMLS6**
With 2233X key for partial door	**NSYML23**
With 2233X key for hinged keyboard door	**NSYMLCD23**

Options for Converting the Handle Lock

PLA

- Changing the handle for a handle including a padlocking device (Ø 10 mm) allowing the handle to be locked. The handle is delivered without barrel or insert block.


NSYCBCMPLAG

Characteristics	References
Options for converting the handle lock	**NSYCBCMPLAG**

Options for Converting the Handle Lock

PLA


NSYEBMPLAG

- Spare handle lock without barrel or insert blocks.
  The insert or barrel are to be chosen from the option table.

Characteristics	References
Options for converting the handle lock	**NSYEBMPLAG**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Inserts

CRN SFN PLM MCC SD


NSYTDBCRN


NSYTC6CRN


NSYTT6CRN


NSYTC7CRN

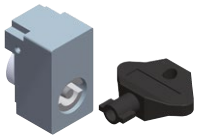

NSYTC8CRN


NSYTT8CRN

Characteristics	Key references	References
3-mm double-bar	NSYLDB5	**NSYTDBCRN**
6 mm square	NSYLC7	**NSYTC6CRN**
7 mm square	NSYLC7	**NSYTC7CRN**
8 mm square	NSYLC8	**NSYTC8CRN**
6.5 mm triangular	NSYLT8	**NSYTT6CRN**
8 mm triangular	NSYLT8	**NSYTT8CRN**
Screw driver lock		**NSYAEDLSD**

Shape Inserts

SM SFN SMX SFX PLM PLA SD

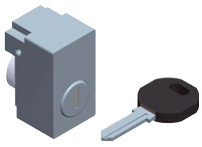

NSYINS61

Characteristics	References
6 mm square insert	**NSYINS61**
7 mm square insert	**NSYINS71**
8 mm square insert	**NSYINS81**
6.5 mm triangular insert	**NSYINT61**
7 mm triangular insert	**NSYINT71**
8 mm triangular insert	**NSYINT81**
9 mm triangular insert	**NSYINT91**
3-mm double-bar insert	**NSYINDB31**
5-mm double-bar insert	**NSYINDB51**
5-mm double bar insert	**NSYTDB5ME**

Barrels

SM SFN SMX SFX PLM PLA SD

- The enclosures PanelSeT SMX and SFX are delivered as standard with a retractable handle made from
- Painted zamak with 5-mm double-bar insert, ref. **NSYMCSX**
- Standard inserts can be replaced by shaped inserts or barrels according the following table.
- Conversion of the standard insert (barrel for key 1242E, ref. **NSYTL1242EME**) to other shaped
- Inserts or barrels according to the following table


NSYIN405E1


NSYTDB5ME

Characteristics	References
405E key lock	**NSYIN405E1**
421E key lock	**NSYIN421E1**
455 key lock	**NSYIN4551**
1242E key lock	**NSYIN1242E1**
2131A key lock	**NSYIN2131A1**
2132A key lock	**NSYIN2132A1**
2433A key lock	**NSYIN2433A1**
2452E key lock	**NSYIN2452E1**
3113A key lock	**NSYIN3113A1**
EDF1300 key lock	**NSYINF1301**
Michelin 8133 keyless lock	**NSYINICHEL8131**
Michelin 8376 keyless lock	**NSYINICHEL8371**
E1 keyless lock	**NSYINE11**
Manual	**NSYTMME**
Barrel and key 405E	**NSYTCL405ME**
Barrel and key 1242E	**NSYTL1242EME**

Adapter for Shaped Inserts and Cylindrical Barrels

SM SFN

- Plastic adapter for installing shaped inserts and cylindrical barrels in handle lock types DIN, KABA, ASSA.
- See shaped inserts and cylindrical barrels.
- See insert types DIN, KABA, ASSA.


NSYLADP

Supply:
1 unit

Characteristics	References
Adapter for shaped inserts and cylindrical barrels	**NSYLADP**

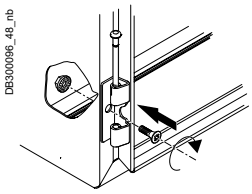
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Door Accessories

Door Hinges

Door Hinges

S3D




NSYAEDH180S3D


NSYAEDH120S3D

- Captive pin, indexed by a spring.
- Material: Zamak body for ref.**NSYAEDH180S3D**, treated sheet steel body for ref. **NSYAEDH120S3D**, aluminum pin
- Maximum load: For the 180° hinge, the maximum admissible load on the door is 20 kg/m²
- For the 120° hinge, the maximum admissible load on the door is 50 kg/m²

Supply:
Set of 1 hinge, delivered with fixings

Characteristics	References
180° hinge	**NSYAEDH180S3D**
Standard 120° hinge	**NSYAEDH120S3D**

SBM


NSYAEDHSB

- The hinges allow the cover to be opened by more than 180°.
- They can be installed on all covers of the range.
- Ingress protection rating: IP66 according to IEC 60529

Installation:
- The box must be drilled before installing the 2 or 3 hinges on the body.
- 3 hinges are required for boxes of width more than 500 mm
- A specific mark on the body helps to locate where the hole should be drilled
- Maximum load: 30 kg/m² on the hinged cover
- Same reference for all enclosure dimensions

Supply:
Set of 6 hinges delivers with fixing hardware

Characteristics	References
Hinges	**NSYAEDHSB**

SM **SFN**

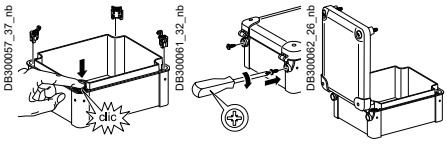


- Hinge with opening of 180°.
- Intended to replace the 120° hinges installed as standard.
- They are compatible with the transparent door and can be installed even with enclosure suites.
- Maximum load: 60 kg on the door
- Material: galvanized steel and painting
- Finish: Painted RAL 9005 black
- UL-certified (cULus):
  - SFN: Types 1, 3R, 12 according UL50E
  - SM: Types 1, 2, 3R, 5 and 13 for single-door enclosures

Supply:
4 hinges

Characteristics	References
180° hinge	**NSYSH180NC**

TBS **TBP**




NSYAEDH20TB

- The hinges can be adapted to all covers with a height of 20 and 40 mm with dimensions from 138 x 93 mm.
- The hinge allows the lid to open fully to 200°.
- Ingress protection rating: IP66 according to IEC 60529
- Installation: The hinge does not require any machining and is installed
- Easily even with the box already equipped
- Maximum load: Hinged cover: 10 kg/m²

Supply:
The hinges (2 per set) are delivered with the fixings, minor pack 1

Characteristics	Height of the lid (mm)	References
Set of 2 hinges	20	**NSYAEDH20TB**
Set of 2 hinges	40	**NSYAEDH40TB**

PLS


NSYBE27G


NSYBL27

Comment:
IP level cannot be guaranteed due to type of application and installation

- To open the door to 180°.
- External Hinges material: Plastic
- Internal Hinges material: Brass

Supply:
Set of 2 hinges

Characteristics	References
External hinges	**NSYBE27G**
Internal hinges	**NSYBL27**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Door Switch

CRN S3D S3X

- Switch/commutator unit equipped with support and fixings for direct fixing to the enclosure.
- Can be used to control lighting, air-conditioning units, etc.
- It is not compatible with installing the 19" swing rack and the internal door.
- NC + NO contact, 240 V AC / 3 A (IEC 60947-5-1) 250 V DC / 0,1 A (IEC 0947-5-1).

Supply:
1 door switch and fixing elements



NSYINLCRN

Characteristics	References
Door switch	**NSYINLCRN**

PLA

- NC + NO switch.
- Incompatible with the rear door and modular distribution chassis

Supply:
Switch, fixing bracket and fixings

Characteristics	References
Door switch	**NSYSNLPLA**



NSYDCM20_nb

SM SFN SFX

- The switch is fixed to the structure of the enclosure.
- Drilled M20 cable entry for cable gland.
- NC + NO contact, 240 V AC / 3 A (IEC 60947-5-1) 250 V DC / 0,1 A (IEC 60947-5-1)

Supply:
1 door switch and fixing elements



NSYDCM20

Characteristics	References
Door switch	**NSYDCM20**
Door switch	**NSYMDCM20**

Wall-Mounted Door Retainer Steel

CRN S3D S3X

To block the door in the open position.

- It is installed on enclosures with heights from 400 mm and widths from 300 mm.
- Door opening angle: 120°.
- Earthing connection of the enclosure by means of the reinforcement rail.
- Earthing accessories supplied with the enclosure (earth-connection cable to be ordered separately), for more information see page 589
- Material: Steel

Comment:
It is not compatible with installing the 19" swing rack and the internal door.



NSYAEDRSCST

Characteristics	References
Wall-mounted door retainer Steel	**NSYAEDRSCST**

Wall-Mounted Door Retainer Polyamide

S3D

To block the door in the open position.

- It is installed on the perforated rails of the enclosure doors at the required height.
- Material: Polyamide 6 (PA6)

Comment:
It can only be installed enclosures with a height from 400 mm and above (including perforated rails).



NSYAEDRS3DPA6

Characteristics	References
Wall-mounted door retainer polyamide	**NSYAEDRS3DPA6**

Door Retainer

PLA PLAZ PLAT PLAZT

Supply:
Delivered with the fixings required for installation

Note:
ref. **NSYRETPLAU** is incompatible with internal doors, modular distribution chassis, step slides, adapter plates and cable entry plates. If not compatible, use ref. **NSYRETPLA**.



NSYRETPLA

- Designed to adapt directly to the enclosure
- Can be installed on a door opening to the left or right indistinctly
- Material: Galvanized steel



NSYRETPLAU

Characteristics	References
Door retainer opening to 110°	**NSYRETPLA**
Door retainer with 2 positions, 90° and 120°	**NSYRETPLAU**

6

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Door Accessories

Additional Door Accessories

Keys

CRN SFN

- Insert without keys (unless indicated)


NSYLDB5

NSYLC8

NSYLT8

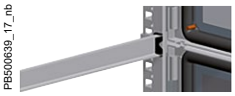
Characteristics	References
Metal key for 5-mm double-bar insert	**NSYLDB5**
Metal key for 7 mm square insert	**NSYLC7**
Metal key for 8 mm square insert	**NSYLC8**
Metal key for 8 mm triangle insert	**NSYLT8**

Intermediate Crossbar

SM SFN

- Mounted between partial doors or between doors and control desk, helping guarantee IP54 according to IEC 60529.
- Crossbar with direct fixing to the structure.
- Available in 2 widths (mm).
- Color: RAL 7035 gray.
- Finish: Epoxy-polyester powder.


NSYMIC6



Supply:
2 crossbars with fixing elements.

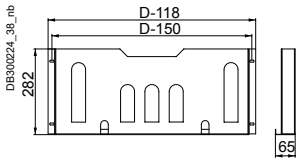
Characteristics	Width (mm)	References
PanelSeT SFN-Intermediate Crossbar	600	**NSYMICN6**
PanelSeT SFN-Intermediate Crossbar	800	**NSYMICN8**

Metal Document Pocket

SM SFN SMX SFX

- Direct mounting on the reinforcement frame of the door.
- Adjustable depth with a pitch of 25 mm.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray


NSYSDP6M



Supply:
1 metal document pocket and fixing elements

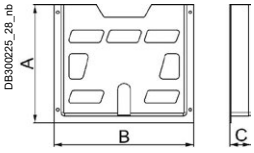
Characteristics	(D) Width (mm)	References
Metal document pocket	600	**NSYSDP6M**
Metal document pocket	800	**NSYSDP8M**

Plastic Document Pocket

SM SFN SMX SFX PLM PLA

- Attachment by adhesive tape.
- Material: Polystyrene (PS)
- Color: RAL 7035 gray (**NSYDPA4**: RAL 9001 white)


NSYDPA5



Comment:
NSYDPA44 not compatible with 19" chassis or modular distribution.

Supply:
1 plastic document pocket

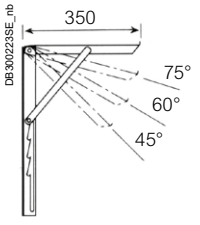
Characteristics	Doc. format	A (mm)	B (mm)	C (mm)	References
Plastic document pocket	A5	174	188	22	**NSYDPA5**
Plastic document pocket	A4	230	247	23	**NSYDPA4**
Plastic document pocket	A4	234	278	40	**NSYDPA44**
Plastic document pocket	A3	285	476	35	**NSYDPA3**

Folding Support Tray

CRN S3D SM SFN SMX SFX

- Adjustable horizontal support for laptop computers, documents or any other element.
- Installation on the reinforcement frame of the door.
- Can also be installed on the door cross-rails, see page 583.
- 4 positions: 45°, 60°, 75° and 90°.
- Maximum load: 30 kg
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Color: RAL 7035 gray


NSYSDT5



Supply:
1 folding support tray and fixing elements

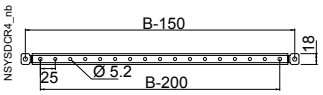

NSYSDT8

Characteristics	Width of enclosure (mm)	Width of tray (mm)	References
Folding support tray	500	325	**NSYSDT5**
Folding support tray	600	425	**NSYSDT6**
Folding support tray	800	625	**NSYSDT8**

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Door Cross-Rails

SM SMX



- Direct mounting cross-rails on the profiles of the reinforcement frame of the door.
- Adjustable height with a pitch of 25 mm.
- Material: Galvanized steel
- Thickness: 20/10e mm

Supply:
2 cross-rails and bag of fixings


NSYSDCR4

Characteristics	Width (B)	References
Door cross-rails	400	**NSYSDCR4**
Door cross-rails	500	**NSYSDCR5**
Door cross-rails	600	**NSYSDCR6**
Door cross-rails	800	**NSYSDCR8**
Door cross-rails	1000	**NSYSDCR10**

Door Retainer for Floor-Standing Enclosure

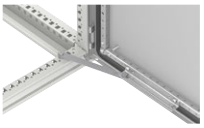
SM SFN SFX




NSYSMDR

- Door retainer locking the door in open position.
- It is fixed directly to the front frame of them enclosure and to the reinforcement frame of the door.
- It can be installed on doors that open both to the right and to the left.

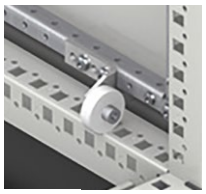
Supply:
Door stop and fixing elements


NSYSFNDR

Characteristics	Limit	References
Door retainer for floor-standing enclosure	90°	**NSYSMDR**
Door retainer for floor-standing enclosure	90° and 120°	**NSYSMNDR**
Door retainer for floor-standing enclosure	90° and 120°	**NSYSFMDR**
Door retainer for floor-standing enclosure	120°	**NSYSFNDR**

Door-Centering Caster

SM SFN


NSYSDRC

- Allows the door to be raised when closing.
- Direct mounting on the reinforcement frame.
- Maximum load: 92 kg
- PanelSeT SM: installation only possible with horizontal adaptation profile NSYSMHR• (see page 498)

Supply:
One centering roller and fixing elements

Characteristics	References
Door-centering caster	**NSYSDRC**

CNOMO Kit

SM SFN


NSYCNOH123



- Locking system to be installed on the central locking bar of the door.
- It works as a locking bar immobiliser, helping prevent the handle from closing while the door is still open.
- It is compatible with all handle lock versions, except the flat lock and the small flat lock.

Supply:
One mechanism and fixing elements

Characteristics	References
CNOMO kit	**NSYCNOH123**

Push-Button

SM SFN PLA SD


NSYINPULS1

Characteristics	References
Push-button	**NSYINPULS1**
Push-button	**NSYTSPLA**

6

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Door Accessories

Additional Door Accessories

Closures for PLS Boxes

PLS

- Slotted screw: Included in the standard references of boxes **NSYPLS●●●**.
- Wing screw: Included in the standard references of modular distribution boxes **NSYPLS●●●DLS●●●**.

Supply:
Set of 4, 6 or 8 screws.
The references also include 4 M6 screws for fixing mounting plates and 2 steel sealing accessories


NSYTCD274


NSYTCM274

Characteristics	Tool	References
Set of 4 slotted screws	Flat-blade screwdriver	**NSYTCD274**
Set of 6 slotted screws	Flat-blade screwdriver	**NSYTCD276**
Set of 8 slotted screws	Flat-blade screwdriver	**NSYTCD278**
Set of 4 wing screws	Manual	**NSYTCM274**

Window for Modular Equipment

CRN S3D PLS PLM PLA

Fig. 1

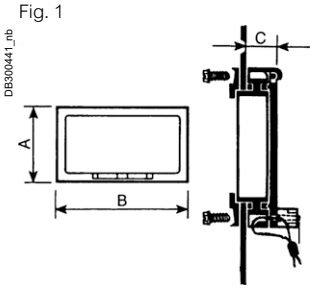
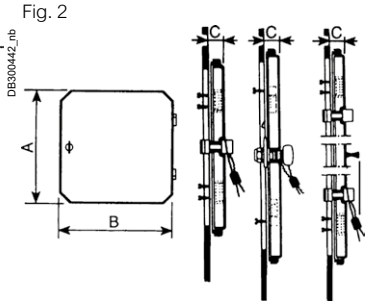


Fig. 2



- Material: Transparent polycarbonate

Supply:
1 window


NSYVA278M

Characteristics	N.° of modules	Fig. n.°	A	B	C	References
Window for modular equipment, Low cover	2	1	78	60	15	**NSYVA272M**
Window for modular equipment, Low cover	4	1	78	95	15	**NSYVA274M**
Window for modular equipment, Low cover	6	1	78	130	15	**NSYVA276M**
Window for modular equipment, Low cover	8	1	78	165	15	**NSYVA278M**
Window for modular equipment, Low cover	10	1	78	200	15	**NSYVA2710M**
Window for modular equipment, Low cover	12	1	78	235	15	**NSYVA2712M**
Window for modular equipment, High cover	2	1	78	60	25	**NSYVA272MA**
Window for modular equipment, High cover	4	1	78	95	25	**NSYVA274MA**
Window for modular equipment, High cover	6	1	78	130	25	**NSYVA276MA**
Window for modular equipment, High cover	8	1	78	165	25	**NSYVA278MA**
Window for modular equipment, High cover	10	1	78	200	25	**NSYVA2710MA**
Window for modular equipment, High cover	12	1	78	235	25	**NSYVA2712MA**
Window for modular equipment, Low cover	16	2	195	165	13	**NSYVA2716M**
Window for modular equipment, Low cover	24 in 2 rows	2	196	235	13	**NSYVA2724M**


NSYVA2724M

Plastic Window

CRN S3D

- Plastic window with hinged cover for installation in front panel.
- External dimensions: 213 x 133 mm.
- Internal dimensions of the window: 180 x 78 mm.
- Material:
  Cover: Polycarbonate
  Body: PVC

Supply:
1 plastic window delivered with a drilling template


NSYMW10M

Characteristics	References
Plastic window	**NSYMW10M**

Plastic Window for Modular Equipment

CRN S3D

- Frame with transparent hinged cover for mounting modular switchgear on the front panel.
- Opening: 46 x 180 mm (10 modules).
- Material:
  Cover: Polycarbonate
  Body: PVC

Supply:
1 modular front panel


NSYMW10MK

Characteristics	References
Plastic window for modular equipment	**NSYMW10MK**

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Kit for Fixing the Switchgear

CRN S3D



NSYMW10MR

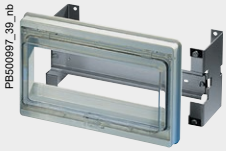
- The unit is delivered assembled.

Supply:
1 DIN rail and two supports.

Characteristics	References
Kit for fixing the switchgear	**NSYMW10MR**

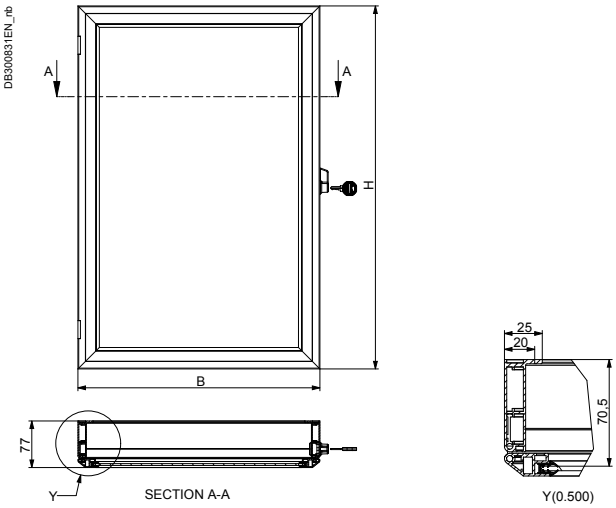
Mounting Example

NSYMW10MK + NSYMW10MR.



Control Window

CRN S3D



- To help prevent accidental operation of the control units by any unauthorised person.
- Allows the displayed information to be read without opening the door.
- Equipped with hinges for opening (180°).
- Locked by a n° 2233X lock.
- Indoor installation.
- Material: Aluminum frame and 3 mm acrylic window

Supply:
1 window, fixings
and instruction sheet



NSYCW33

Characteristics	Dimensions A (mm)	Dimensions B (mm)	References
Control window	300	300	**NSYCW33**
Control window	400	400	**NSYCW44**
Control window	400	500	**NSYCW45**
Control window	400	600	**NSYCW46**
Control window	500	400	**NSYCW54**
Control window	500	500	**NSYCW55**
Control window	500	600	**NSYCW56**
Control window	600	500	**NSYCW65**
Control window	600	600	**NSYCW66**
Control window	800	600	**NSYCW86**

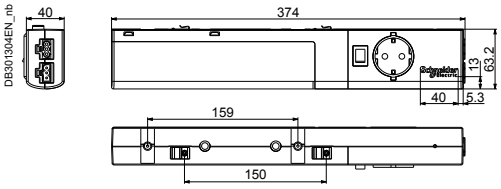
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Other Accessories

Led Lamps

Characteristics	Multi-Fixing LED Lamps	
Note: For dimensions see below		
	These LED lamps are designed to optimize the life time, consumption, space and accessibility inside the enclosure, they are available with three fixing options as standard.	
Color	Black RAL 9005	
Ingress protection rating	IP20 according to IEC60529	
Standards	• IEC 60598 • UL 94: For plastic components • UL508A: Control Panel	• UL153: Lamps • UL8750: LED for lighting • EN55015: EMC
Other characteristics	• Built-in switch • Power consumption: 10 W • Frequency: 50/60 Hz • Power factor: V AC lamps: 0.9 V DC lamps: 1 • Luminosity: 950 lm* • Light temperature: 4000 K* • LED service life: 25000 h*	• Casing: Plastic UL94 • Degree of insulation: Class I - Lamps with socket according to ENEC certificate Class II - Lamps without socket according to ENEC certificate **NSYLAMLDVDC** is Class III according to ENEC Certificate • Compliant with RoHS and Reach • Ambient temperature: Operation: -16 °C to +65 °C (-3 °F to +149 °F) Storage: -10 °C to +60 °C (-14 °F to +140 °F) • Max. 2 Apms and 5 lamps in serial connection
Connections	• 3 m power black or orange cable with quick connector (Not supplied. See reference below) • 1.5 m interconnection black or orange cable with quick connectors (Not supplied. See reference below) According to the directive IEC 60204-1: • Black cables: Power circuits for switch or DC voltage. • Orange cables: External voltage that may be present even if the cabinet is turned off.	
Supply	• 1 lamp and fixing elements	

Lamp model	Lamps			Cables			
	Socket			Black cables		Orange cables	
			References	Power (3 m) References	Interconnection (1.5 m) References	Power (3 m) References	Interconnection (1.5 m) References
With socket 120 / 230 V AC	SCHUKO		**NSYLAMLDS**	NSYLAM3M	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
With socket 120 / 230 V AC	UTE		**NSYLAMLDF**	NSYLAM3M	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
With socket 120 / 230 V AC	British		**NSYLAMLDB**	NSYLAM3M	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
With socket 120 V AC	USA		**NSYLAMLDU**	NSYLAM3MUL	-	-	-
Without socket 120 / 230 V AC	–	–	**NSYLAMLD**	NSYLAM3M	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
Without socket 120 / 230 V AC		–		NSYLAM3MUL	-	-	-
Without socket - With presence detection 120/230 V AC	–	–	**NSYLAMLDD**	NSYLAM3M	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
Without socket - With presence detection 230 V AC				NSYLAM3MUL	-	-	-
Without socket - DC 24-48 V DC	–	–	**NSYLAMLDVDC**	NSYLAM3MDC	-	-	-
Without socket - DC 24-48 V DC				NSYLAM3MDCUL	-	-	-

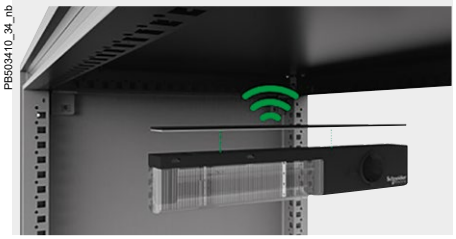


Fixing Options

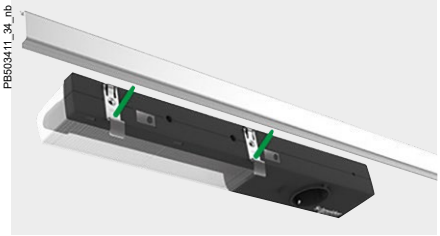
Fixing by Sliding Brackets



Magnetic Fixing



Fixing to DIN Rail



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3-Pole Connectors


NSYLAMACF


NSYLAMDCF


NSYLAMACM


NSYLAMDCM

- Designed to connect Multi-Fixing LED Lamps.
- Color:
  AC: Black
  DC: Black (body) and brown (head)
- Ingress protection rating: IP20
- Rated current: 16 A
- Rated voltage: 250 V
- Strain relief: Yes
- Connection type for cabling: Screw connection
- Material: Polyamide
- Dimensions:
  Length: 53.2 mm
  Width: 23 mm
  Height: 13.8 mm

- **Connection data:**
  Cable diameter: 9 mm
  Cable diameter 2: 5.5 mm
  Cross section solid: 2.5 mm²
  Cross section solid 2: 0.5 mm²
  Connection cross section stranded (max.): 2.5 mm²
  Cross section stranded 2: 0.5 mm²

Characteristics	References
3-pole socket type connectors AC model	**NSYLAMACF**
3-pole socket type connectors DC model	**NSYLAMDCF**
3-pole plug type connectors AC model	**NSYLAMACM**
3-pole plug type connectors DC model	**NSYLAMDCM**

6

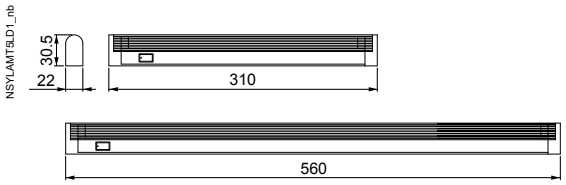
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Other Accessories

Led Lamps

Cost-Effective LED Lamps

- This LED lamp is designed to optimize costs and can be used in almost all enclosures respecting the dimensions. It can be interconnected using a single power source:
  5 W lamps: Max. 10 lamps interconnected,
  10 W lamps: Max. 5 lamps interconnected.
- Built-in switch
- Light temperature: 4000 K*
- LED service life: 25000 h*
- Casing:
  Plastic for transparent cover and connectors
  Aluminum for body
- Degree of insulation: Class I
- Compliant with RoHS and Reach
- Ambient temperature:
  Operating: -10 °C to +60 °C (-14 °F to +140 °F)
  Storage: -16 °C to +65 °C (-3 °F to +149 °F)
- Color: Aluminum
- Ingress protection rating: IP20 according to IEC60529
- Standards: IEC 60598



Supply:
1 lamp and fixing elements
3 m connection cable with quick connector
1 m interconnection cable with quick connectors

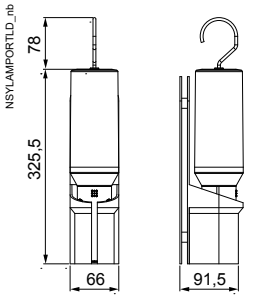
* Approximate values.


NSYLAMT5LD1

Characteristics	Voltage (V)	Power (W)	Power factor	Frequency (Hz)	Luminous flux (lm)*	References
Cost-effective LED lamps	120/230 V AC	5	0.8	50-60	500	**NSYLAMT5LD1**
Cost-effective LED lamps	120/230 V AC	10	0.9	50-60	1100	**NSYLAMT5LD2**
Cost-effective LED lamps	24/48 V DC	5	1	-	470	**NSYLAMT5LD1VDC**

Portable LED Lamp

- This LED portable lamp is designed to be installed as
- Enclosure lamp or maintenance lamp providing mobility,
- Resistance, versatility and durability.
- Double function:
  internal enclosure lamp,
  maintenance lamp.
- E27 LED lamp
- Built-in recessed switch
- Light temperature: 4000 K*
- LED service life: 25000 h*
- Power cable 3 m long with male plug (European standard type)
- Casing: Plastic
- Degree of insulation: Class II
- Compliant with RoHS and Reach
- Ambient temperature:
  Operating: -16 °C to +65 °C (-3 °F to +149 °F)
  Storage: -10 °C to +60 °C (-14 °F to +140 °F)
- Color: Black RAL 9005
- Ingress protection rating: IP20 according to IEC60529
- Standards:
  IEC 60598
  UL 94: For plastic components



Supply:
1 lamp with 3 m power cable with European universal plug
1 fix base
Fixing elements

* Approximate values.


NSYLAMPORTLD

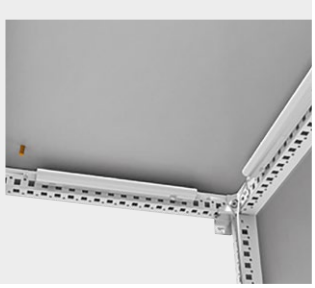
Characteristics	Voltage (V)	Power (W)	Power factor	Frequency (Hz)	Luminous flux (lm)*	References
Portable LED lamp	120/230 V AC	10	0.5	50-60	1100	**NSYLAMPORTLD**

Fixing Options

Magnetic Fixing



Fixing by Adapter Brackets



Possible uses

Fixing by Adhesive or by Screws



Used on Workbench



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Earthing Strip

SBX

- Perforated brass bar, 15 x 3 mm.
- 1 m long.
- 87 connection points, M5 drill holes

Supply:
1 earthing stripand fixing elements


NSYECB1M153

Characteristics	References
Earthing strip	**NSYECB1M153**

Earth Braids

- They help guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- Material: Tinned copper.

Supply:
10 earth braids
(nuts and washers not included)


NSYEB156D6

Characteristics	Section (mm²)	Terminal Ø (mm)	Length (mm)	Width (mm)	References
Earth braids	6	7	150	12	**NSYEB156D6**
Earth braids	10	6.5	150	17	**NSYEB1510D6**
Earth braids	16	8.5	155	17	**NSYEB1516D8**
Earth braids	25	8.5	200	27	**NSYEB2025D8**
Earth braids	50	8.5	200	33	**NSYEB2050D8**

Earth Cables

- Make it easier to install a safe earth connection, with a contact, with optimized length.
- Material: Brass and copper alloy terminal, green and yellow PVC insulated sheath

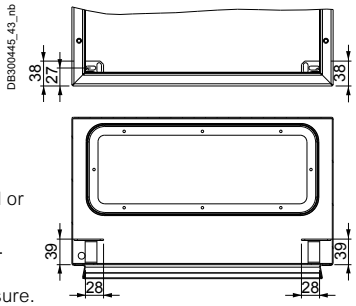
Supply:
10 earth cables (nuts and washers not included). Reference by unit. Order by multiples of 10 (10, 20, 30...)


NSYEL136D6

Characteristics	Section (mm²)	Terminal Ø (mm)	Length (mm)	References
Earth cables	6	6.4	130	**NSYEL136D6**
Earth cables	6	6.4	160	**NSYEL166D6**
Earth cables	6	8.3	160	**NSYEL166D8**
Earth cables	6	6.4	220	**NSYEL226D6**
Earth cables	25	8.3	220	**NSYEL2225D8**
Earth cables	10	6.4	250	**NSYEL2510D6**
Earth cables	25	8.3	350	**NSYEL3525D8**

Fixing Lugs for the Earthing Strip

S3D S3X




PB501000_42_nb

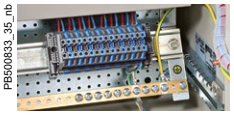
- They allow the mounting of an earth collector rail or a DIN rail at the top and bottom of an enclosure.
- Mounting incompatible with certain accessories. Please consult us.
- Fixing: On holes made in the gutter of the enclosure.

Supply:
2 lugs and fixings.


NSYEDCOS

Characteristics	References
Fixing lugs for the earthing strip	**NSYEDCOS**

Combined Fixing Lugs for the Earthing Strip


PB500833_35_nb

Telequick

- Allows the mounting of an earth collector rail and a DIN rail.
- Tilted to 30°.
- Earthing strip, ref. **NSYECB1M153**. See page 589.

Supply:
Two fixing lugs and fixing elements


NSYEDCOC

Characteristics	References
Combined fixing lugs for the earthing strip	**NSYEDCOC**

Central Earthing Point

SM SFN SMX SFX SD

- Connects earthing braids and cables to the structure of the enclosure.
- The earth connection is made by means of the M8 x 18 mm screw.
- Fixing: Fixing to the structure by means of self-tapping screws

Supply:
1 central earthing point, elements for fixing to the structure, and fixings for fixing to the screw


NSYCEP

Characteristics	References
Central earthing point	**NSYCEP**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Other Accessories

Painting Accessories

Aerosol Paint Can

CRN S3D



NSYBPA7032

- Air-drying paint.
- Content: 150 g.

Note:
Not available for destinations outside Europe.
NSYBPA703• expires 10 years after its production.

Characteristics	References
Aerosol paint can, RAL 7032	**NSYBPA7032**
Aerosol paint can, RAL 7035 gray	**NSYBPA7035**

Touch-Up Paint

CRN S3D


NSYTUP7035

- Paint for touching up with a brush.
- Air-drying paint.

Characteristics	References
Touch-up paint, RAL 7035 gray	**NSYTUP7035**

Renovation and Anti-Graffiti Paint

PLM PLA


NSYAUPG1G

- Paint kit with 2 components (base 80% + hardener 20%)
- Specially designed for polyester enclosures, for their renovation and/or as prevention to allow easy removal of graffiti.
- Color: RAL 7035 gray

Supply: NSYAUPG1G
The 1 kg reference includes 1 pot with 800 g of base paint and 200 g of hardener
(It is enough to paint a surface of around 5 m²).

Characteristics	References
Renovation and anti-graffiti paint	**NSYAUPG1G**

6

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Head Screws

SBM



NSYAEDSBSB NSYAEDSTSB

- The standard Pozidriv head screws can be replaced with the double-bar or triangular shaped head screws, to discourage unauthorised opening of the cover with normal screwdrivers.
- Ingress protection rating: IP66 according to IEC 60529
- Installation: Simply replace the standard screw on the box
- Same reference for all enclosure dimensions

Supply:
1 unit

Characteristics	References
Double-bar shaped head 3 mm screw	**NSYAEDSBSB**
Triangular shaped head 6.5 mm screw	**NSYAEDSTSB**

Self-Tapping Screws

SBM SBX



NSYAMFSB

- Same reference for all enclosure dimensions
- Self-tapping, Pozidriv head, screws, for Ø 5 mm holes.

Supply:
100 units

Characteristics	References
Self-tapping screws	**NSYAMFSB**

Sealing Kit

SBM SBX



NSYPPSB

- The sealing kit helps to set up a lead-sealed cable of cover opening.
- Color: Green
- Ingress protection rating: IP66 according to IEC 60529
- Installation: Replaces the standard sealing washer on the box
- Same reference for all enclosure dimensions

Supply:
1 unit

Characteristics	References
Sealing kit	**NSYPPSB**

Fixing Options, Screw M6

SFN



NSYSPM6

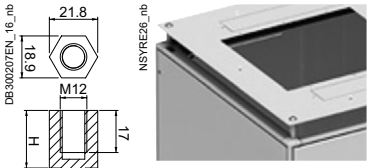
- M6 x 10 mm

Supply:
50 screws

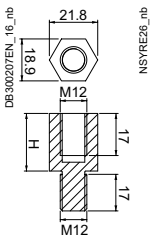
Characteristics	References
Screw M6	**NSYSPM6**

Airing Elevators for Roof

SFN



NSYRE26_nb



- Allows the roof to be raised, providing natural airing.
- They are screwed onto the structure at the roof fixing point.
- Material: Zinc-coated steel.
- Can´t be used for lifting.

Supply:
4 elevators



NSYRE26

Characteristics	(H) Height (mm)	IP	References
Airing elevators for roof	23	10	**NSYRE26**
Airing elevators for roof	60	00	**NSYRE60**

Sealing Gasket

SFN SFN IT



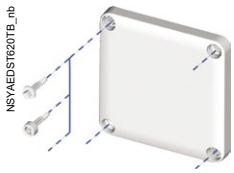
NSYCEK

- Sealing gasket, made from ethylene-propylene with a cross-section of 3 x 10 mm, for mounting on the perimeter of the cable gland plates. Adhesive to help guarantee good sealing.

Characteristics	References
Sealing gasket	**NSYCEK**

Cover Accessories Set

TBS TBP



NSYAEDST620TB_nb

- The polyester boxes are delivered as standard with slotted-head screws for flat-bladed screwdriver from 4 to 5.5 mm.
- With box sizes from 138 x 93 x 72 mm, these screws can be replaced for screws with different standardised heads to comply with most cases.
- After removing the standard screw, simply position the new screw by pressing on it.
- The adapter clips (intermediate parts for tightening the cover on the body of the box) are the same as those for the standard screws. They are not delivered with the shaped screws.
- A single key for opening the boxes as well as the other enclosures of your installation.

Supply:
Set of 4 shape screws



NSYAEDSB520TB

Characteristics	Minor pack.	Reference
Spare standard plastic screw - Height of the lid 20 mm	1	**NSYAEDS20TB**
Spare standard plastic screw - Height of the lid 40 mm	1	**NSYAEDS40TB**
Spare standard plastic screw - Height of the lid 60 mm	1	**NSYAEDS60TB**

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Other Accessories

Additional Accessories

Sealed Pressure Balance Valve

TBS TBP

Balances the pressure to avoid condensation and/or deformations of the boxes due to internal temperature changes. Protection of equipment for luminaires, industrial control, transportation, pumps, etc.

- Material: PA6-V2, acrylic co-polymer membrane, water and oil repellent
- Ingress protection rating: IP68
- Installation: The valve is installed by drilling a hole with Ø 12 mm in the box
- Operating temperature: -40...+105 °C
- Permeability: Air flow under ΔP = 0.7 bar
- Pressure difference: Condition for IP68

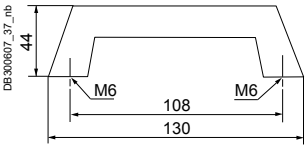

NSYCAG12LPH1

Supply:
10 valves, nuts and seals

Characteristics	Permeability	Pressure difference	Drilling Ø	Minor pack.	Reference
Sealed pressure balance valve IP68	16 litres/h	ΔP < 1 bar	12 mm	1	**NSYCAG12LPH1**
Sealed pressure balance valve IP68	120 litres/h	ΔP < 0.1 bar	12 mm	1	**NSYCAG12LPH2**

Plastic Carrying Handle


NSYATM27



- Material: Plastic
- Ingress protection rating: IP43

Characteristics	References
Plastic carrying handle	**NSYATM27**

Fixing Inserts

PLM

Expanding inserts for addition to the M6 bosses of the enclosure, the M5 or M6 bosses of the door and the M8 bosses of the external rear part of the enclosure.

Supply:
References by unit. Order by multiples of 8 units (8, 16, 24, etc.). M5 and M6 inserts to be ordered in multiples of 20


NSYTEX5 NSYTEX6 NSYTEX8PLM

Characteristics	Insert size	For wall-mounted enclosure	References
Fixing inserts	M5	NSYPLM43G and NSYPLM54G	**NSYTEX5**
Fixing inserts	M6	NSYPLM64G to NSYPLM108G	**NSYTEX6**
Fixing inserts	M8	For the rear of the enclosure	**NSYTEX8PLM**

Airing Louvres

PLM


NSYCAG35LP

- They can be positioned inside the wall-mounted enclosures with heights from 430 to 846 mm, allowing airing through the channels of the enclosure.

Supply:
References by unit. Order by multiples of 2 units (2, 4, 6, etc.)

Characteristics	References
Airing louvres	**NSYCAG35LP**

Water Drain Plug

PLM


NSYVEA9

- For drainage of condensed water. (Condensation should be eliminated using ClimaSys solution.) It is placed in the Ø 8.5 mm (8.2 mm for wall-mounted enclosures **NSYPLM32G**, **NSYPLM32TG**, **NSYPLM32PG** and **NSYPLM32BG** diverse accessories) housing at the bottom of the enclosure.
- Ingress protection rating: IP53

Supply:
References by unit. Order by multiples of 10 units (10, 20, 30, etc.)

Characteristics	References
Water drain plug	**NSYVEA9**

Blanking Plates

PLM


NSYCEPLMAG

Aesthetic Accessory. They are positioned on the rear surface of the enclosures to block the openings in the corners in order to improve their appearance or help prevent the entry of unwanted elements in the airing shaft. Supplied as standard for enclosure, ref. **NSYPLM108G**.

- Material: Thermoplastic
- Color: RAL 7035 gray
- Ingress protection rating: IP40

Accessory is mounted outside the IP66-protected area.

Characteristics	For wall-mounted enclosure	Reference
Blanking plates	NSYPLM32G	**NSYCEPLMAG**
Blanking plates	NSYPLM43G and NSYPLM54G	**NSYCEPLMBG**
Blanking plates	NSYPLM64G, 75G and 86G	**NSYCEPLMCG**

M8 Inserts

PLA


NSYTEX8

- To be placed in the bosses molded on the doors, uprights, rear panels and bottom and top parts, for fixing accessories and assorted devices.
- Material: Brass

Supply:
References by unit. Order by multiples of 8 units (8, 16, 24, etc.)

Characteristics	References
Fixing inserts	**NSYTEX8**

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Adapter Plates

PLA PHD

- The enclosures with open bottom part (versions PLAZ and PLAZT) require a set of adapter plates for mounting: An internal door, step slides, modular chassis and 19" chassis.
- **NSYPTZ●●●** for one door enclosures
- **NSYPTX●●●** 2P for two door enclosures
- Material: Galvanized steel
- Fixing: Fixing on the bottom part of the enclosure by means of M8 inserts and screws (supplied)

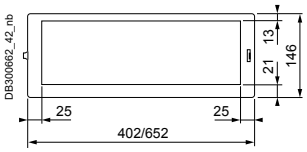


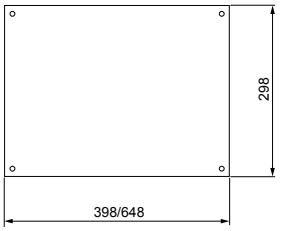

NSYPTZ3

Characteristics	Depth (mm)	Number of doors	References
Adapter plates	320	1	**NSYPTZ3**
Adapter plates	320	2	**NSYPTZ32P**
Adapter plates	420	1	**NSYPTZ4**
Adapter plates	420	2	**NSYPTZ42P**
Adapter plates	620	1	**NSYPTZ6**
Adapter plates	620	2	**NSYPTZ62P**

Plain Cover Plate

PLA





- Plain cover plate for non-modular switchgear protection.
- Can be cutted out according to needs.
- Material: Polystyrene (PS) (for 146 mm high)
- Fiberglass reinforced polyester (for 298 mm high)
- Color: RAL 7035 gray

Supply:
Order by multiples of 2 (2, 4, 6...)


NSYCTL500DLPG

Characteristics	For enclosure - Width (mm)	Height A (mm)	Thickness (mm)	References
Plain cover plate	500	146	2	**NSYCTL500DLPG**
Plain cover plate	500	298	4	**NSYCTL500DLP2**
Plain cover plate	750	146	2	**NSYCTL750DLPG**
Plain cover plate	750	298	4	**NSYCTL750DLP2**

Intermediate Support in the Two Door Enclosures

PLA

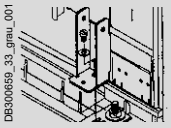
- Required accessory for installing support plates, ref. **NSYBANPLA●●●** or uprights, ref. **NSYSPLA●●●** in the two door enclosures
- Material: Galvanized steel

Supply:
Two support kits


NSYSBPLA

Characteristics	References
Intermediate support in the two door enclosures	**NSYSBPLA**

Recommendation



Intermediate support
Accessory required for installing uprights, ref. **NSYSPLA●●●**.
Only for two door enclosures.
Supply: one (including two supports)
ref. **NSYSBPLA**

Roof Airing Module

PHD

- Airing module to enable airing from the top of the enclosure (H = 95 mm).
- Material: Steel with anti-corrosive painting (C4H according ISO 12.944: 2018)
- Finish: Structured finish, 100% polyester powder
- Color: RAL 7035 gray



Supply:
1


NSYPCVR54HD

Characteristics	Dimensions (W x D)	References
Roof airing module	500 x 420	**NSYPCVR54HD**
Roof airing module	750 x 420	**NSYPCVR74HD**
Roof airing module	750 x 620	**NSYPCVR76HD**
Roof airing module	1250 x 420	**NSYPCVR124HD**
Roof airing module	1250 x 620	**NSYPCVR126HD**

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Spare Parts

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Spare Parts

PanelSeT Steel Enclosures	**596**
PanelSeT Stainless-Steel Enclosures	**601**
PanelSeT Insulated Enclosures	**602**
Specific Application and Customized Solutions	**603**
ClimaSys Thermal Management	**606**

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PanelSeT Steel Enclosures

PanelSeT SBM: Industrial Boxes


NSYSBMABS4

Accessories	References
Bag of acces. SBM boxes 4 screws	**NSYSBMABS4**
Bag of acces. SBM boxes 6 screws	**NSYSBMABS6**

PanelSeT S3D: Wall-Mounted Enclosures

PB500199_48_nb


NSYDS3D32

Single doors	References
Plain door 300 x 200	**NSYDS3D32**
Plain door 300 x 250	**NSYDS3D325**
Plain door 300 x 300	**NSYDS3D33**
Plain door 300 x 400	**NSYDS3D34**
Plain door 400 x 300	**NSYDS3D43**
Plain door 400 x 400	**NSYDS3D44**
Plain door 400 x 600	**NSYDS3D46**
Plain door 500 x 300	**NSYDS3D53**
Plain door 500 x 400	**NSYDS3D54**
Plain door 500 x 500	**NSYDS3D55**
Plain door 600 x 400	**NSYDS3D64**
Plain door 600 x 500	**NSYDS3D65**
Plain door 600 x 600	**NSYDS3D66**
Plain door 600 x 800	**NSYDS3D68**
Plain door 700 x 500	**NSYDS3D75**
Plain door 800 x 600	**NSYDS3D86**
Plain door 800 x 800	**NSYDS3D88**
Plain door 800 x 1000	**NSYDS3D810**
Plain door 1000 x 600	**NSYDS3D106**
Plain door 1000 x 800	**NSYDS3D108**
Plain door 1000 x 1000	**NSYDS3D1010**
Plain door 1200 x 1000	**NSYDS3D1210**
Plain door 1200 x 600	**NSYDS3D126**
Plain door 1200 x 800	**NSYDS3D128**

Door accessories	References
Gasket double-door enclosure (previous version before May 2023)	**NSYGDD**
Set of 5 taps and latches	**NSYS3DTL**
Hinge 120°	**NSYAEDH120S3D**
Hinge 180°	**NSYAEDH180S3D**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**
Fixing hardware cable Gland plate	**References**
100 screws	**NSYS3DCGSB**
standard screw bag	**NSYS3DCGPSTDSB**
Locking accessories	**References**
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
Lock + standard key DB3 neutral	**NSYAEDLS3DRLN**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
3 point lock linkage H 1200 mm	**NSYBTAS3D120**
3 point lock linkage H 1400 mm	**NSYBTAS3D140**
Lock with key type 3131A	**NSYAEDL3131AS3D**
3 point lock linkage (H = 650 mm)	**NSYBTAS3D65**
3 point lock linkage (H = 900 mm)	**NSYBTAS3D90**
Panels	**References**
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

Double door (new design from April 2023)	References
Plain door 800 x 500 right	**NSYDNS3D85R**
Plain door 800 x 500 left	**NSYDNS3D85L**
Plain door 800 x 600 right	**NSYDNS3D86R**
Plain door 800 x 600 left	**NSYDNS3D86L**
Plain door 1000 x 500 right	**NSYDNS3D105R**
Plain door 1000 x 500 left	**NSYDNS3D105L**
Plain door 1000 x 600 right	**NSYDNS3D106R**
Plain door 1000 x 600 left	**NSYDNS3D106L**
Plain door 1200 x 500 right	**NSYDNS3D125R**
Plain door 1200 x 500 left	**NSYDNS3D125L**
Plain door 1200 x 600 right	**NSYDNS3D126R**
Plain door 1200 x 600 left	**NSYDNS3D126L**
Plain door 1400 x 500 right	**NSYDNS3D145R**
Plain door 1400 x 500 left	**NSYDNS3D145L**

Double door (previous design before April 2023)	References
Plain door 800 x 500 right	**NSYDS3D85R**
Plain door 800 x 500 left	**NSYDS3D85L**
Plain door 800 x 600 right	**NSYDS3D86R**
Plain door 800 x 600 left	**NSYDS3D86L**
Plain door 1000 x 500 right	**NSYDS3D105R**
Plain door 1000 x 500 left	**NSYDS3D105L**
Plain door 1000 x 600 right	**NSYDS3D106R**
Plain door 1000 x 600 left	**NSYDS3D106L**
Plain door 1200 x 500 right	**NSYDS3D125R**
Plain door 1200 x 500 left	**NSYDS3D125L**
Plain door 1200 x 600 right	**NSYDS3D126R**
Plain door 1200 x 600 left	**NSYDS3D126L**
Plain door 1400 x 500 right	**NSYDS3D145R**
Plain door 1400 x 500 left	**NSYDS3D145L**

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See page 12 for details or consult our web site www.se.com

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PanelSeT S3DM: Wall-Mounted Enclosures


NSYS3DM10615T

Fixing hardware	References
100 screws for cable gland plate	NSYS3DCGSB
Standard screw bag cable gland plate	NSYS3DCGPSTDSB
Earthing accessories	**References**
Set of 500 earthing labels	NSYSWMEL
Locking accessories	**References**
Set of 10 linkage guides	NSYS3DLG
Standard key DB3	NSYAEDLS3DKDB3
3 point lock linkage H 600 mm	NSYBTAS3D60
3 point lock linkage H 700 mm	NSYBTAS3D70
3 point lock linkage H 800 mm	NSYBTAS3D80
3 point lock linkage H 1000 mm	NSYBTAS3D100
Panels WM	**References**
50 caps for holes of hinges	NSYSWMCH
Set of 50 back plugs	NSYSWMBP

PanelSeT S3DB: Wall-Mounted Enclosures


PB500200-42

NSYSWMEL

Earthing accessories	References
Set of 500 earthing labels	NSYSWMEL
Locking accessories	**References**
Standard key DB3	NSYAEDLS3DKDB3
Panels	**References**
50 caps for holes of hinges WM	NSYSWMCH
Set of 50 back plugs WM	NSYSWMBP

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PanelSeT Steel Enclosures

PanelSeT CRN: Wall-Mounted Enclosures



NSYDCRN22

Doors	References
Plain door H 200 x W 200	**NSYDCRN22**
Plain door H 200 x W 300	**NSYDCRN23**
Plain door H 250 x W 200	**NSYDCRN2520**
Plain door H 300 x W 250	**NSYDCRN3025**
Plain door H 300 x W 300	**NSYDCRN33**
Plain door H 300 x W 400	**NSYDCRN34**
Plain door H 300 x W 450	**NSYDCRN3045**
Plain door H 400 x W 300	**NSYDCRN43**
Plain door H 400 x W 400	**NSYDCRN44**
Plain door H 400 x W 600	**NSYDCRN46**
Plain door H 500 x W 400	**NSYDCRN54**
Plain door H 500 x W 500	**NSYDCRN55**
Plain door H 600 x W 400	**NSYDCRN64**
Plain door H 600 x W 500	**NSYDCRN65**
Plain door H 600 x W 600	**NSYDCRN66**
Plain door H 600 x W 800	**NSYDCRN68**
Plain door H 700 x W 500	**NSYDCRN75**
Plain door left H 800 x W 500	**NSYDCRN85L**
Plain door right H 800 x W 500	**NSYDCRN85R**
Plain door H 800 x W 600	**NSYDCRN86**
Plain door left H 800 x W 600	**NSYDCRN86L**
Plain door right H 800 x W 600	**NSYDCRN86R**
Plain door H 800 x W 800	**NSYDCRN88**
Plain door left H 1000 x W 500	**NSYDCRN105L**
Plain door right H 1000 x W 500	**NSYDCRN105R**
Plain door H 1000 x W 600	**NSYDCRN106**
Plain door right H 1000 x W 600	**NSYDCRN106R**
Plain door left H 1000 x W 600	**NSYDCRN106L**
Plain door H 1000 x W 800	**NSYDCRN108**
Plain door right H 1200 x W 500	**NSYDCRN125R**
Plain door left H 1200 x W 500	**NSYDCRN125L**
Plain door H 1200 x W 600	**NSYDCRN126**
Plain door right H 1200 x W 600	**NSYDCRN126R**
Plain door left H 1200 x W 600	**NSYDCRN126L**
Plain door H 1200 x W 800	**NSYDCRN128**
Plain door H 1200 x W 800	**NSYDCRN128**
Plain door right H 1400 x W 500	**NSYDCRN145R**
Plain door left H 1400 x W 500	**NSYDCRN145L**

Door Accessories	References
Standard PanelSeT hinge	**NSYBICRN**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	**References**
TCRE1 Lock	**NSYTCRE1**
TCRE12 Lock	**NSYTCRE12**
Panels	**References**
Set of 50 back plugs WM	**NSYSWMBP**
Fixing hardware	**References**
Screw bag for CRN cable gland plate	**NSYCRNCGPSTDSB**
Sealing	**References**
Adhesive sealing gasket 18 x 10 2M	**NSYADG2M**
Adhesive sealing gasket 18 x 10 3M	**NSYADG3M**
Adhesive sealing gasket 18 x 10 5M	**NSYADG5M**
Adhesive sealing gasket 18 x 10 20M	**NSYADG20M**

PanelSeT CRNG: Wall-Mounted Enclosures



NSYDCRNG86

Doors	References
Plain door H 800 x W 600	**NSYDCRNG86**
Plain door left H 800 x W 500	**NSYDCRNG85L**
Plain door right H 800 x W 500	**NSYDCRNG85R**
Plain door left H 800 x W 600	**NSYDCRNG86L**
Plain door right H 800 x W 600	**NSYDCRNG86R**
Plain door H 1000 x W 600	**NSYDCRNG106**
Plain door H 1000 x W 800	**NSYDCRNG108**
Plain door left H 1000 x W 500	**NSYDCRNG105L**
Plain door right H 1000 x W 500	**NSYDCRNG105R**
Plain door right H 1000 x W 600	**NSYDCRNG106R**
Plain door left H 1000 x W 600	**NSYDCRNG106L**
Plain door H 1200 x W 600	**NSYDCRNG126**
Plain door H 1200 x W 800	**NSYDCRNG128**
Plain door right H 1200 x W 500	**NSYDCRNG125R**
Plain door left H 1200 x W 500	**NSYDCRNG125L**
Plain door H 1200 x W 600	**NSYDCRNG126R**
Plain door left H 1200 x W 600	**NSYDCRNG126L**
Plain door right H 1400 x W 500	**NSYDCRNG145R**
Plain door left H 1400 x W 500	**NSYDCRNG145L**

Door Accessories	References
Hinge 120°	**NSYAEDH120S3D**
Hinge 180°	**NSYAEDH180S3D**
Locking accessories	**References**
3 point lock linkage for PanelSeT CRNG (H = 800 mm)	**NSYBTACRNG80**
3 point lock linkage for PanelSeT CRNG (H = 1000 mm)	**NSYBTACRNG100**
3 point lock linkage for PanelSeT CRNG (H = 1200 mm)	**NSYBTACRNG120**
3 point lock linkage for PanelSeT CRNG (H = 1400 mm)	**NSYBTACRNG140**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**
Fixing hardware cable gland plate	**References**
100 screws	**NSYS3DCGSB**
Standard screw bag	**NSYS3DCGPSTDSB**
Panels	**References**
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**
Others accessories	**References**
Screw bag for CRN cable gland plate	**NSYCRNCGPSTDSB**

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PanelSeT SFN: Floor-Standing Enclosures

PB124775



NSYSFD207

PB503544



NSYTDSSF2D

Door accessories	References
Set of 4 Hinges and fixing elements	NSYDHSF
Double-door stoppers (2 pieces)	NSYTDSSFN2D
Locking accessories	**References**
Locking system for enclosures, single-door version 1200H (right side door for double-door version)	NSYLCK12SF
Locking system for enclosures 1 single-door version 1400H	NSYLCK14SF
Locking system for enclosures, single-door version 1600H (right side door for double-door version)	NSYLCK16SF
Locking system for enclosures, single-door version 1800H (right side door for double-door version)	NSYLCK18SF
Locking system for enclosures, single-door version 2000H (right side door for double-door version)	NSYLCK20SF
Locking system for enclosures, single-door version 2200H (right side door for double-door version)	NSYLCK22SF
Door locking system toothed washer	NSYLCKWSF
Handle neutral trim	NSYSFHNTRIM
Handle SF	NSYSFHS1

PB503841



NSYRSF64L

Roof	References
Roof W 600 x D 400 mm	NSYRSF64L
Roof W 600 x D 600 mm	NSYRSF66L
Roof W 800 x D 400 mm	NSYRSF84L
Roof W 800 x D 500 mm	NSYRSF85L
Roof W 800 x D 600 mm	NSYRSF86L
Roof W 800 x D 800 mm	NSYRSF88L
Roof W 1000 x D 400 mm	NSYRSF104L
Roof W 1000 x D 500 mm	NSYRSF105L
Roof W 1000 x D 600 mm	NSYRSF106L
Roof W 1000 x D 800 mm	NSYRSF108L
Roof W 1200 x D 400 mm	NSYRSF124L
Roof W 1200 x D 500 mm	NSYRSF125L
Roof W 1200 x D 600 mm	NSYRSF126L

Fixing hardware	References
Captive screws for panels external fixing	NSYCSSF
Plinth accessories	**References**
H 100 mm Plastic covers for plinth corners	NSYPC100
H 200 mm Plastic covers for plinth corners	NSYPC200
Panels	**References**
PrismaSeT back panel H 2000 x W 700 mm	NSYBPN207
Doors	**References**
Plain door PrismaSeT RAL9003 2000 x 700 mm	NSYSFND207ED
Plain door PrismaSeT RAL7035 2000 x 700 mm	NSYSFND207G
Glazed door PrismaSeT RAL9003 2000 x 700 mm	NSYSFND207TED
Glazed door PrismaSeT RAL7035 2000 x 700 mm	NSYSFND207TG
Plain door PrismaSeT RAL9003 2000 x 300	NSYSFND203ED
Std enlarged roof W 1000 x D 400 mm	NSYRSFN104L
Std enlarged roof W 1000 x D 500 mm	NSYRSFN105L
Std enlarged roof W 1000 x D 600 mm	NSYRSFN106L
Std enlarged roof W 1000 x D 800 mm	NSYRSFN108L
Std enlarged roof W 1200 x D 400 mm	NSYRSFN124L
Std enlarged roof W 1200 x D 500 mm	NSYRSFN125L
Std enlarged roof W 1200 x D 600 mm	NSYRSFN126L
Std enlarged roof W 600 x D 400 mm	NSYRSFN64L
Std enlarged roof W 600 x D 600 mm	NSYRSFN66L
Std enlarged roof W 800 x D 400 mm	NSYRSFN84L
Std enlarged roof W 800 x D 500 mm	NSYRSFN85L
Std enlarged roof W 800 x D 600 mm	NSYRSFN86L
Std enlarged roof W 800 x D 800 mm	NSYRSFN88L
Two door stop double door	NSYTDSSFN2D

Spacial SF: Floor-Standing Enclosures

PB502412-55



Door accessories	References
Set of 4 Hinges and fixing elements	NSYDHSF
Double-door stoppers (2 pieces)	NSYTDSSF2D
Locking accessories	**References**
Locking system for enclosures, single-door version 1200H (right side door for double-door version)	NSYLCK12SF
Locking system for enclosures 1 single-door version 1400H	NSYLCK14SF
Locking system for enclosures, single-door version 1600H (right side door for double-door version)	NSYLCK16SF
Locking system for enclosures, single-door version 1800H (right side door for double-door version)	NSYLCK18SF
Locking system for enclosures, single-door version 2000H (right side door for double-door version)	NSYLCK20SF
Locking system for enclosures, single-door version 2200H (right side door for double-door version)	NSYLCK22SF
Door locking system toothed washer	NSYLCKWSF
Handle neutral trim	NSYSFHNTRIM
Handle SF	NSYSFHS1

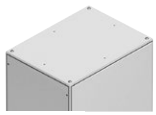
Fixing hardware	References
Captive screws for panels external fixing	NSYCSSF
Plinth accessories	**References**
H 100 mm Plastic covers for plinth corners	NSYPC100
H 200 mm Plastic covers for plinth corners	NSYPC200
Panels	**References**
PrismaSeT back panel H 2000 x W 700 mm	NSYBP207
Doors	**References**
Simple doors of PanelSeT SFN are compatible with Spacial SF. Bottom trim not to be mounted	NSYSFND*
Double doors of PanelSeT SFN can be used in Spacial SF by replacing the double-door stopper. Bottom trim not to be mounted	NSYSFND*2D + NSYTDSSFN2D

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Panel**SeT** Steel Enclosures

Spacial SF: Floor-Standing Enclosures

PB503272-56



NSYRSF35L

Roof	References
Roof W 300 x D 500 mm	**NSYRSF35L**
Roof W 300 x D 600 mm	**NSYRSF36L**
Roof W 300 x D 800 mm	**NSYRSF38L**
Roof W 400 x D 400 mm	**NSYRSF44L**
Roof W 400 x D 500 mm	**NSYRSF45L**
Roof W 600 x D 400 mm	**NSYRSF64L**
Roof W 600 x D 500 mm	**NSYRSF65L**
Roof W 600 x D 600 mm	**NSYRSF66L**
Roof W 800 x D 400 mm	**NSYRSF84L**
Roof W 800 x D 500 mm	**NSYRSF85L**
Roof W 800 x D 600 mm	**NSYRSF86L**
Roof W 800 x D 800 mm	**NSYRSF88L**
Roof W 1000 x D 400 mm	**NSYRSF104L**
Roof W 1000 x D 500 mm	**NSYRSF105L**
Roof W 1000 x D 600 mm	**NSYRSF106L**
Roof W 1000 x D 800 mm	**NSYRSF108L**
Roof W 1200 x D 400 mm	**NSYRSF124L**
Roof W 1200 x D 500 mm	**NSYRSF125L**
Roof W 1200 x D 600 mm	**NSYRSF126L**
Roof W 1200 x D 800 mm	**NSYRSF128L**
Roof W 1600 x D 400 mm	**NSYRSF164L**
Roof W 1600 x D 500 mm	**NSYRSF165L**
Roof W 1600 x D 600 mm	**NSYRSF166L**

Panel**SeT** SM: Floor-Standing Enclosures



NSYSMEC1041

Cable gland plates	References
1 entry W 1000 x D 400 mm	**NSYSMEC1041**
1 entry W 1000 x D 300 mm	**NSYSMEC1031**
1 entry W 1000 x D 500 mm	**NSYSMEC1051**
1 entry W 600 x D 300 mm	**NSYSMEC631**
1 entry W 600 x D 400 mm	**NSYSMEC641**
1 entry W 600 x D 600 mm	**NSYSMEC661**
1 entry W 800 x D 300 mm	**NSYSMEC831**
1 entry W 800 x D 400 mm	**NSYSMEC841**
1 entry W 800 x D 500 mm	**NSYSMEC851**
1 entry W 800 x D 600 mm	**NSYSMEC861**

Doors	References
Single plain door H 1200 x W 800 mm	**NSYSFD128**
Double plain door H 1200 x W 1000 mm	**NSYSMD12102D**
Double plain door H 1200 x W 1200 mm	**NSYSMD12122D**
Single plain door H 1400 x W 600 mm	**NSYSFD146**
Single plain door H 1400 x W 800 mm	**NSYSFD148**
Double plain door H 1400 x W 1000 mm	**NSYSMD14102D**
Double plain door H 1400 x W 1200 mm	**NSYSMD14122D**
Single plain door H 1600 x W 600 mm	**NSYSFD166**
Single plain door H 1600 x W 800 mm	**NSYSFD168**
Double plain door H 1600 x W 1000 mm	**NSYSMD16102D**
Double plain door H 1600 x W 1200 mm	**NSYSMD16122D**
Single plain door H 1800 x W 600 mm	**NSYSFD186**
Single plain door H 1800 x W 800 mm	**NSYSFD188**
Single plain door H 1800 x W 1000 mm	**NSYSFD1810**
Double plain door H 1800 x W 1000 mm	**NSYSFD18102D**
Double plain door H 1800 x W 1200 mm	**NSYSFD18122D**
Double plain door H 1800 x W 1600 mm	**NSYSMD18162D**
Single plain door H 2000 x W 600 mm	**NSYSFD206**
Single plain door H 2000 x W 800 mm	**NSYSFD208**
Single plain door H 2000 x W 1000 mm	**NSYSFD2010**
Double plain door H 2000 x W 1200 mm	**NSYSFD20122D**
Double plain door H 2000 x W 1600 mm	**NSYSFD20162D**

Door accessories	References
Set of 4 hinges and fixing elements	**NSYDHSF**
PanelSeT SM hinges and 2D door stop	**NSYDHSM2D**
Double-door stoppers (2 pieces)	**NSYTDSSF2D**
Locking accessories	**References**
Locking system for enclosures, single-door version 1200H (right side door for double-door version)	**NSYLCK12SF**
Locking system for enclosures, single-door version 1600H (right side door for double-door version)	**NSYLCK16SF**
Locking system for enclosures, single-door version 1800H (right side door for double-door version)	**NSYLCK18SF**
Locking system for enclosures, single-door version 2000H (right side door for double-door version)	**NSYLCK20SF**
Locking system for enclosures, single-door version 2200H (right side door for double-door version)	**NSYLCK22SF**
Locking system for enclosures 1, single-door version 1400H	**NSYLCK14SF**
Door locking system toothed washer	**NSYLCKWSF**
Handle neutral trim	**NSYSFHNTRIM**
Plinth accessories	**References**
H 100 mm Plastic covers for plinth corners	**NSYPC100**
H 200 mm Plastic covers for plinth corners	**NSYPC200**

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PanelSeT Stainless-Steel Enclosures

PanelSeT S3X: Wall-Mounted Enclosures


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Doors	References
Left door 304L for enclosure H1000 x W1000 mm	**NSYDS3X1010L**
Left door 316L for enclosure H1000 x W1000 mm	**NSYDS3X1010LH**
Right door 304L for enclosure H1000 x W1000 mm	**NSYDS3X1010R**
Right door 316L for enclosure H1000 x W1000 mm	**NSYDS3X1010RH**
Plain door 304L for enclosure H1000 x W800 mm	**NSYDS3X108**
Plain door 316L for enclosure H1000 x W800 mm	**NSYDS3X108H**
Left door 304L for enclosure H1200 x W1000 mm	**NSYDS3X1210L**
Left door 316L for enclosure H1200 x W1000 mm	**NSYDS3X1210LH**
Right door 304L for enclosure H1200 x W1000 mm	**NSYDS3X1210R**
Right door 316L for enclosure H1200 x W1000 mm	**NSYDS3X1210RH**
Plain door 304L for enclosure H1200 x W800 mm	**NSYDS3X128**
Plain door 316L for enclosure H1200 x W800 mm	**NSYDS3X128H**
Plain door 304L for enclosure H300 x W200 mm	**NSYDS3X32**
Plain door 304L for enclosure H300 x W250 mm	**NSYDS3X325**
Plain door 316L for enclosure H300 x 250 mm	**NSYDS3X325H**
Plain door 316L for enclosure H300 x W200 mm	**NSYDS3X32H**
Plain door 304L for enclosure H300 x W300 mm	**NSYDS3X33**
Plain door 316L for enclosure H300 x W300 mm	**NSYDS3X33H**
Plain door 304L for enclosure H400 x W300 mm	**NSYDS3X43**
Plain door 316L for enclosure H400 x W300 mm	**NSYDS3X43H**
Plain door 304L for enclosure H400 x W400 mm	**NSYDS3X44**
Plain door 316L for enclosure H400 x W400 mm	**NSYDS3X44H**
Plain door 304L for enclosure H400 x W600 mm	**NSYDS3X46**

Doors	References
Plain door 316L 400 x 600 mm	**NSYDS3X46H**
Plain door 304L 500 x 400 mm	**NSYDS3X54**
Plain door 316L 500 x 400 mm	**NSYDS3X54H**
Plain door 304L 600 x 400 mm	**NSYDS3X64**
Plain door 316L 600 x 400 mm	**NSYDS3X64H**
Plain door 304L 600 x 600 mm	**NSYDS3X66**
Plain door 316L 600 x 600 mm	**NSYDS3X66H**
Plain door 304L 700 x 500 mm	**NSYDS3X75**
Plain door 316L 700 x 500 mm	**NSYDS3X75H**
Plain door 304L 800 x 600 mm	**NSYDS3X86**
Plain door 316L 800 x 600 mm	**NSYDS3X86H**
Plain door 304L 800 x 800 mm	**NSYDS3X88**
Plain door 316L 800 x 800 mm	**NSYDS3X88H**
Transp. door 304L 1000 x 800 mm	**NSYDS3X108T**
Transp. door 304L 400 x 300 mm	**NSYDS3X43T**
Transp. door 304L 500 x 400 mm	**NSYDS3X54T**
Transp. door 304L 600 x 400 mm	**NSYDS3X64T**
Transp. door 304L 700 x 500 mm	**NSYDS3X75T**
Transp. door 304L 800 x 600 mm	**NSYDS3X86T**

Door accessories	References
Set of 2 hinges	**NSYHS3X**

Locking accessories	References
Locking system 1000 mm	**NSYLSS3X10**
Locking system 1200 mm	**NSYLSS3X12**

PanelSeT SMX and SFX: Wall-Mounted Enclosures


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PB503684

Doors	Related Offer	References
Left door 304L for enclosure H1400 x W1000 mm	SMX	**NSYDSFX1410L**
Right door 304L for enclosure H1400 x W1000 mm	SMX	**NSYDSFX1410R**
Door 304L for enclosure H1600 x W800 mm	SMX	**NSYDSFX168**
Door 304L for enclosure H1800 x W600 mm	SMX, SFX	**NSYDSFX186**
Left door for enclosure H1800 x W1200 mm	SMX, SFX	**NSYDSFX1812L**
Left door 316L for enclosure H1800 x W1200 mm	SMX	**NSYDSFX1812LH**
Right door for enclosure H1800 x W1200 mm	SMX, SFX	**NSYDSFX1812R**
Right door 316L for enclosure H1800 x W1200 mm	SMX	**NSYDSFX1812RH**
Door 304L for enclosure H1800 x W800 mm	SMX, SFX	**NSYDSFX188**
Door 316L for enclosure H1800 x W800 mm	SMX	**NSYDSFX188H**
Left door 304L for enclosure H1800 x W1600 mm	SMX	**NSYDSFX1816L**
Left door 316L for enclosure H1800 x W1600 mm	SMX	**NSYDSFX1816LH**
Right door 304L for enclosure H1800 x W1600 mm	SMX	**NSYDSFX1816R**
Right door 316L for enclosure H1800 x W1600 mm	SMX	**NSYDSFX1816RH**
Left door for enclosure H2000 x W1000 mm	SMX, SFX	**NSYDSFX2010L**
Left door 316L for enclosure H2000 x W1000 mm	SMX	**NSYDSFX2010LH**
Right door for enclosure H2000 x W1000 mm	SMX, SFX	**NSYDSFX2010R**
Right door 316L for enclosure H2000 x W1000 mm	SMX	**NSYDSFX2010RH**
Door for enclosure H1800 x W800 mm	SMX, SFX	**NSYDSFX206**
Left door for enclosure H2000 x W1200 mm	SMX, SFX	**NSYDSFX2012L**
Left door 316L for enclosure H2000 x W1200 mm	SMX	**NSYDSFX2012LH**
Right door for enclosure H2000 x W1200 mm	SMX, SFX	**NSYDSFX2012R**
Right door 316L for enclosure H2000 x W1200 mm	SMX	**NSYDSFX2012RH**
Door for enclosure H2000 x W800 mm	SMX, SFX	**NSYDSFX208**
Left for enclosure door H2000 x W1600 mm	SMX, SFX	**NSYDSFX2016L**
Left door 316L for enclosure H2000 x W1600 mm	SMX	**NSYDSFX2016LH**
Right door for enclosure H2000 x W1600 mm SMX	SMX, SFX	**NSYDSFX2016R**
Right door 316L for enclosure H2000 x W1600 mm	SMX	**NSYDSFX2016RH**

Locking system	Related Offer	References
Locking system H = 1400 mm	SMX, SFX	**NSYLSSFX14**
Locking system H = 1600 mm	SMX, SFX	**NSYLSSFX16**
Locking system H = 1800 mm	SMX, SFX	**NSYLSSFX18**
Locking system H = 2000 mm	SMX, SFX	**NSYLSSFX20**

Door accessories	Related Offer	References
Double-door stoppers (2 pieces)	SMX, SFX	**NSYTDSSF2D**
Set of 3 hinges	SFX	**NSYHSMX**

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PanelSeT Insulated Enclosures

PanelSeT PLM: Wall-Mounted Enclosures



• For RAL 7035

Complete door (door + lock system)	References
Door with locking for PLM32	**NSYDPLM32G**
Door with locking for 2 locks PLM3025	**NSYDPLM3025G**
Door with locking for PLM43	**NSYDPLM43G**
Door with locking for PLM54	**NSYDPLM54G**
Door with locking for PLM64	**NSYDPLM64G**
Door with locking for PLM75	**NSYDPLM75G**
Door with locking for PLM86	**NSYDPLM86G**
Door with locking for PLM108	**NSYDPLM108G**
Glazed door with locking for PLM3025T	**NSYDPLM3025TG**
Glazed door with locking for PLM43T	**NSYDPLM43TG**
Glazed door with locking for PLM54T	**NSYDPLM54TG**
Glazed door with locking for PLM64T	**NSYDPLM64TG**
Glazed door with locking for PLM75T	**NSYDPLM75TG**
Glazed door with locking for PLM86T	**NSYDPLM86TG**
Glazed door with locking for PLM108T	**NSYDPLM108TG**

Door accessories	References
Door hinge for NSYPLM32	**NSYAEDHPLM32**
Door hinge for NSYPLM3025 for 2 locks door	**NSYAEDHPLM3025**
Door hinge for NSYPLM43 to 86	**NSYAEDHPLM**
Door hinge for NSYPLM108	**NSYAEDHPLM108**
Rod guides (4 pieces) for PLM108	**NSYAEDPLM108**
Fixing hardware	**References**
Acc. bag NSYPLM43 to 86	**NSYASPLM**
Locking accessories	**References**
Locking and rods for NSYPLM108	**NSYVPLM108**
Double-bar lock for PLM enclosures from 430 to 847 mm high	**NSYCDBPLM**

PanelSeT PLA: Floor-Standing Enclosures



• For RAL 7035

Doors	References
Door 500 x 500 Lock handle type. Door opening 120°	**NSYDPLA55G**
Door 500 x 750 Lock handle type. Door opening 120°	**NSYDPLA57G**
Door 750 x 500 Lock handle type. Door opening 120°	**NSYDPLA75G**
Door 750 x 750 Lock handle type. Door opening 120°	**NSYDPLA77G**
Door 1000 x 500 Lock handle type. Door opening 120°	**NSYDPLA105G**
Door 1000 x 750 Lock handle type. Door opening 120°	**NSYDPLA107G**
Door 1250 x 500 Lock handle type. Door opening 120°	**NSYDPLA125G**
Door 1250 x 750 Lock handle type. Door opening 120°	**NSYDPLA127G**
Door 1500 x 500 Lock handle type. Door opening 120°	**NSYDPLA155G**
Door 1500 x 750 Lock handle type. Door opening 120°	**NSYDPLA157G**
Door 500 x 500 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA55HG**
Door 500 x 750 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA57HG**
Door 750 x 500 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA75HG**
Door 750 x 750 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA77HG**
Door 1000 x 500 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA105HG**
Door 1000 x 750 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA107HG**
Door 1250 x 500 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA125HG**
Door 1250 x 750 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA127HG**

• For RAL 7035

Doors	References
Door 1500 x 500 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA155HG**
Door 1500 x 750 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA157HG**
Door accessories	**References**
One hinge + axe for PLA (120° opening)	**NSYAEDPLA004**
Kit of axes of door PLAZT (180° opening)	**NSYAEDPLA005**
Rod guide inside the door PLA (set of 2)	**NSYAEDPLA001**
Rod guide on 1 door PLA (set of 2)	**NSYAEDPLA002G**
Rod guide on 2 doors PLA (set of 2)	**NSYAEDPLA003G**
Fixing hardware	**References**
Acc. bag for 1 door H = 500-1000 mm	**NSYASPLA001**
Acc. bag for 2 doorH = 1250-1500 mm	**NSYASPLA002**
Acc. bag for 2 door	**NSYASPLA003**
Locking accessories	**References**
5mm double bar insert for large escucheon for old PLA without handle	**NSYTDB5PLA**
Handle locking and rods H = 500 mm	**NSYVPLA5MG**
Handle locking and rods H = 750 mm	**NSYVPLA7MG**
Handle locking and rods H = 1000 mm	**NSYVPLA10MG**
Handle locking and rods H = 1250 mm	**NSYVPLA12MG**
Handle locking and rods H = 1500 mm	**NSYVPLA15MG**

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Specific Application and Customized Solutions

Human Machine Interface: SD


NSYCCSDF8

Doors	References
Desk lid W 600 mm	**NSYDLSD6**
Desk lid W 800 mm	**NSYDLSD8**
Desk lid W 1000 mm	**NSYDLSD10**
Desk lid W 1200 mm	**NSYDLSD12**
Desk lid for w/console W 800 mm	**NSYDLSDF8**
Desk lid for w/console W 1000 mm	**NSYDLSDF10**
Desk lid for w/console W 1200 mm	**NSYDLSDF12**
Desk lid for w/console W 1600 mm	**NSYDLSDF16**
Folding console cover W 800 mm	**NSYCCSDF8**
Folding console cover W 1000 mm	**NSYCCSDF10**
Folding console cover W 1200 mm	**NSYCCSDF12**
Folding console cover W 1600 mm	**NSYCCSDF16**

Door accessories	References
Hinges compact control desk	**NSYHSD**
Hinges control desk w/console	**NSYHSDF**
Locking accessories	**References**
Standard handle in RAL 7011 (previous version)	**NSYSDH**
Handle rear door (new version)	**NSYBTACRNG140**
Lock w/DB 3 mm for frontal doors	**NSYFDLSD**
Lock w/DB 3 mm desk lids and covers	**NSYDLLSDF**
Flat escutcheon with DB 5 mm	**NSYSDFLOCKDB5**

Human Machine Interface

Door accessories	References
Locking system	**NSYLSSDX**

PanelSeT S3CM: Control Enclosure with Suspension Rack

Doors	References
Plain door H 200 x W 200	**NSYDCRN22**
Plain door H 200 x W 300	**NSYDCRN23**
Plain door H 250 x W 200	**NSYDCRN2520**
Plain door H 300 x W 250	**NSYDCRN3025**
Plain door H 300 x W 300	**NSYDCRN33**
Plain door H 300 x W 400	**NSYDCRN34**
Plain door H 300 x W 450	**NSYDCRN3045**
Plain door H 400 x W 300	**NSYDCRN43**
Plain door H 400 x W 400	**NSYDCRN44**
Plain door H 400 x W 600	**NSYDCRN46**
Plain door H 500 x W 500	**NSYDCRN55**
Plain door H 600 x W 600	**NSYDCRN66**
Plain door H 600 x W 800	**NSYDCRN68**
Plain door H 800 x W 600	**NSYDCRN86**

Door accessories	References
Standard PanelSeT hinge	**NSYBICRN**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**

Applicative and Customized Solutions: EMC, S3HF


PB500205_46_nb

Earthing accessories	References
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	**References**
Standard Locking system	**NSYAEDLS3HFDB3**

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Specific Application and Customized Solutions

PanelSeT S3DEX: Explosive Atmospheres


PB501817_54_nb

Doors	References
Plain door 300 x 200	**NSYDS3D32**
Plain door 300 x 300	**NSYDS3D33**
Plain door 400 x 300	**NSYDS3D43**
Plain door 400 x 400	**NSYDS3D44**
Plain door 500 x 400	**NSYDS3D54**
Plain door 600 x 400	**NSYDS3D64**
Plain door 600 x 600	**NSYDS3D66**
Plain door 700 x 500	**NSYDS3D75**
Plain door 800 x 600	**NSYDS3D86**
Plain door 1000 x 800	**NSYDS3D108**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**

Locking accessories	References
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
Panels	**References**
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

PanelSeT PHD: Outdoor Heavu-Duty Enclosures


PB602630_28_nb

Plain doors (door + lock + hinges + door retainer)	Unic door or right door References	Left door References
H 538 x W 500	**NSYDPHD55P**	-
H 788 x W 500	**NSYDPHD75P**	-
H 843 x W 750	**NSYDPHD77P**	-
H 1093 x W 500	**NSYDPHD105P**	-
H 1093 x W 750	**NSYDPHD107P**	-
H 1343 x W 500	**NSYDPHD125P**	-
H 1343 x W 750	**NSYDPHD127P**	-
H 1343 x W 1250	**NSYDPHD127P**	**NSYDPHD125LP**
H 1593 x W 750	**NSYDPHD157P**	-
H 1593 x W 1250	**NSYDPHD157P**	**NSYDPHD155LP**
H 2093 x W 750	2 x **NSYDPHD107P**	-
Ribbed doors (door + lock + hinges + door retainer)	**References**	**References**
H 538 x W 500	**NSYDPHD55R**	-
H 788 x W 500	**NSYDPHD75R**	-
H 843 x W 750	**NSYDPHD77R**	-
H 1093 x W 500	**NSYDPHD105R**	-
H 1093 x W 750	**NSYDPHD107R**	-
H 1343 x W 500	**NSYDPHD125R**	-
H 1343 x W 750	**NSYDPHD127R**	-
H 1343 x W 1250	**NSYDPHD127R**	**NSYDPHD125LR**
H 1593 x W 750	**NSYDPHD157R**	-
H 1593 x W 1250	**NSYDPHD157R**	**NSYDPHD155LR**
H 2093 x W 750	2 x **NSYDPHD107R**	-

Aluminum cable gland plate	References
For enclosure W 750 x D 420	**NSYPPC74HD**
For enclosure W 750 x D 620	**NSYPPC76HD**
For enclosure W 500 x D 420	**NSYPPC54HD**
For enclosure W 1250 x D 420	**NSYPPC54HD + NSYPPC74HD**
For enclosure W 1250 x D 620	**NSYPPC56HD + NSYPPC76HD**
Screws and nuts for PHD gland plate (10 units)	**NSYPPCPHDSN**
Door accessories	**References**
Set of 4 complete hinges for PHD	**NSYAEDPHD**
Locking accessories	**References**
Complete lock system for PHD H 1000	**NSYVPHD10**
Complete lock system for PHD H 1500	**NSYVPHD15**
Complete lock system for PHD H 2000	2 x **NSYVPHD10**

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Specific Application and Customized Solutions

PanelSeT S3HD: Outdoor Heavy-Duty Enclosures


PB502653_21_nb

Heavy-Duty cable gland plate for enclosure	References
H 343 x W 200 x D 180	**NSYTLAUHD**
H 448 x W 300 x D 230	**NSYTLCUHD**
H 548 x W 400 x D 230	**NSYTLDUHD**
H 653 x W 400 x D 280	**NSYTLDUHD**
H 658 x W 600 x D 330	**NSYTLGUHD**
H 753 x W 500 x D 280	**NSYTLEUHD**
e H 858 x W 600 x D 330	**NSYTLGUHD**
H 862 x W 800 x D 430	2 x **NSYTLDUHD**
H 1062 x W 600 x D 430	**NSYTLGUHD**
H 1062 x W 800 x D 430	2 x **NSYTLDUHD**
Door	**References**
Door 300 x 200 S3HD, without handle	**NSYDS3HD32**
Door 400 x 300 S3HD, without handle	**NSYDS3HD43**
Door 500 x 400 S3HD, without handle	**NSYDS3HD54**
Door 600 x 400 S3HD + linkage locking syst	**NSYDS3HD64**
Door 600 x 600 S3HD + linkage locking syst	**NSYDS3HD66**
Door 700 x 500 S3HD + linkage locking syst	**NSYDS3HD75**
Door 800 x 600 S3HD + linkage locking syst	**NSYDS3HD86**
Door 800 x 800 S3HD + linkage locking syst	**NSYDS3HD88**
Door 1000 x 600 S3HD + linkage locking syst	**NSYDS3HD106**
Door 1000 x 800 S3HD + linkage locking syst	**NSYDS3HD108**

Hinge	References
S3HD hinge	**NSYAEDH120S3HD**
Canopy	**References**
Canopy for S3HD 200 (W) x 150 (P)	**NSYTJ2015HD**
Canopy for S3HD 300 (W) x 200 (P)	**NSYTJ3020HD**
Canopy for S3HD 400 (W) x 200 (P)	**NSYTJ4020HD**
Canopy for S3HD 400 (W) x 250 (P)	**NSYTJ4025HD**
Canopy for S3HD 600 (W) x 300 (P)	**NSYTJ6030HD**
Canopy for S3HD 500 (W) x 250 (P)	**NSYTJ5025HD**
Canopy for S3HD 800 (W) x 400 (P)	**NSYTJ8040HD**
Canopy for S3HD 600 (W) x 400 (P)	**NSYTJ6040HD**
Lock	**References**
Lock S3HD DB 3 mm (Escutcheon+cam+washer)	**NSYAEDLS3HDRL**

PanelSeT SFN HD: Outdoor Heavy-Duty Enclosures


NSYSFNHD20860

NSYSFECA64HD

Heavy-Duty cable gland plate for enclosure	References
H 1262 x W 600 x D 430	**NSYSFECA64HD**
H 1262 x W 800 x D 430	**NSYSFECA64HD**
H 1262 x W 1200 x D 430	2 x **NSYSFECA64HD**
H 1281 x W 600 x D 630	**NSYSFECA66HD**
H 1281 x W 800 x D 630	**NSYSFECA66HD**
H 1281 x W 1200 x D 630	2 x **NSYSFECA66HD**
H 1662 x W 800 x D 430	**NSYSFECA64HD**
H 1662 x W 1200 x D 430	2 x **NSYSFECA64HD**
H 1681 x W 600 x D 630	**NSYSFECA66HD**
H 1681 x W 800 x D 630	**NSYSFECA66HD**
H 1681 x W 1200 x D 630	2 x **NSYSFECA66HD**
H 2062 x W 800 x D 430	**NSYSFECA64HD**
Door	**References**
Plain door SFHD 1200 x 600 mm	**NSYSFDHD126**
Plain door SFHD 1200 x 800 mm	**NSYSFDHD128**
Plain door SFHD 1200 x 1200 mm	**NSYSFDHD12122D**
Plain door SFHD 1600 x 600 mm	**NSYSFDHD166**
Plain door SFHD 1600 x 800 mm	**NSYSFDHD168**
Plain door doble SFHD 1600 x 1200 mm	**NSYSFDHD16122D**
Plain door SFHD 2000 x 800 mm	**NSYSFDHD208**

Back Panel	References
SFHD 1200 x 600 mm	**NSYBPHD126**
SFHD 1200 x 800 mm	**NSYBPHD128**
SFHD 1200 x 1200 mm	**NSYBPHD12122D**
SFHD 1600 x 600 mm	**NSYBPHD166**
SFHD 1600 x 800 mm	**NSYBPHD168**
SFHD 1600 x 1200 mm	**NSYBPHD1612**
SFHD 2000 x 800 mm	**NSYBPHD208**
Canopy	**References**
SFHD 600 x 400 mm	**NSYSC64HD**
SFHD 600 x 600 mm	**NSYSC66HD**
SFHD 800 x 400 mm	**NSYSC84HD**
SFHD 800 x 600 mm	**NSYSC86HD**
SFHD 1200 x 400 mm	**NSYSC124HD**
SFHD 1200 x 600 mm	**NSYSC126HD**
Handle with 1242E cylindrical barrel	**References**
Handle SFHD 1242E	**NSYSFHS1HD**
Captive screws	**References**
Captive screws for PanelSeT SFHD panels	**NSYCSSFHD**

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ClimaSys Thermal Management

ClimaSys CE: Exchangers

Exchangers							
							
Exchanger Battery	Fan (Fan + Capacitor)	Frontal Cover RAL 7035 gray	Thermostat	Mounting Kit (instruction + full seal + screws)	Transformer	Solenoid Valve	
Air-AIR exchangers							
References	**References**	**References**	**References**	**References**	**References**	**References**	**References**
NSYCEA22E	**NSYCUSP0177**	**NSYCUSP0042**	**NSYCUSP0181**	-	**NSYCUSP0184**	-	-
NSYCEA36	**NSYCUSP0031**	**NSYCUSP0044**	**NSYCUSP0077**	**NSYCUSP0100**	**NSYCUSP0112**	-	-
NSYCEA50	**NSYCUSP0032**	**NSYCUSP0044**	**NSYCUSP0077**	**NSYCUSP0100**	**NSYCUSP0112**	-	-
NSYCEA80	**NSYCUSP0033**	**NSYCUSP0138**	**NSYCUSP0078**	**NSYCUSP0100**	**NSYCUSP0113**	-	-
Air-WATER exchangers							
References	**References**	**References**	**References**	**References**	**References**	**References**	**References**
NSYCEW1K	**NSYCUSP0034**	**NSYCUSP0043**	**NSYCUSP0079**	**NSYCUSP0100**	**NSYCUSP0114**	-	**NSYCUSP0108**
NSYCEWX1K	-	-	-	**NSYCUSP0100**	**NSYCUSP0114**	-	**NSYCUSP0108**
NSYCEW1K8	**NSYCUSP0035**	**NSYCUSP0044**	**NSYCUSP0080**	**NSYCUSP0100**	**NSYCUSP0124**	-	**NSYCUSP0109**
NSYCEWX1K8	-	-	-	**NSYCUSP0100**	**NSYCUSP0124**	-	**NSYCUSP0109**
NSYCEW2K5	**NSYCUSP0036**	**NSYCUSP0136**	**NSYCUSP0080**	**NSYCUSP0100**	**NSYCUSP0124**	-	**NSYCUSP0109**
NSYCEWX2K5	-	-	-	**NSYCUSP0100**	**NSYCUSP0124**	-	**NSYCUSP0109**
NSYCEW3K5	**NSYCUSP0037**	**NSYCUSP0138**	**NSYCUSP0081**	**NSYCUSP0100**	**NSYCUSP0115**	-	**NSYCUSP0109**
NSYCEW4K5	**NSYCUSP0038**	**NSYCUSP0137**	**NSYCUSP0081**	**NSYCUSP0100**	**NSYCUSP0115**	-	**NSYCUSP0109**
NSYCEW6K	**NSYCUSP0039**	**NSYCUSP0137**	**NSYCUSP0082**	**NSYCUSP0100**	**NSYCUSP0125**	-	**NSYCUSP0109**
NSYCEW6K2P4	**NSYCUSP0040**	**NSYCUSP0137**	**NSYCUSP0082**	**NSYCUSP0100**	**NSYCUSP0125**	**NSYCUSP0107**	**NSYCUSP0109**
NSYCEW2K5R	**NSYCUSP0041**	**NSYCUSP0053**	**NSYCUSP0084**	**NSYCUSP0100**	**NSYCUSP0117**	-	**NSYCUSP0109**

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ClimaSys CU: Cooling Units

	Cooling units: Side-mounted models				
	 Condenser Fan Kit	 Condenser Fan Kit	 Evaporator Fan Kit	 Evaporator Fan Kit	 Controller Kit
References	**References**	**References**	**References**	**References**	**References**
NSYCU350DG	**NSYCUSP001DG**	-	**NSYCUSP002DG**	-	**NSYCUSP010DG**
NSYCUX350DG	**NSYCUSP001DG**	-	**NSYCUSP002DG**	-	**NSYCUSP010DG**
NSYCU600DG	**NSYCUSP001DG**	-	**NSYCUSP002DG**	-	**NSYCUSP010DG**
NSYCUX600DG	**NSYCUSP001DG**	-	**NSYCUSP002DG**	-	**NSYCUSP010DG**
NSYCU800DG	-	**NSYCUSP003DG**	-	**NSYCUSP004DG**	**NSYCUSP010DG**
NSYCU8002P4DG	-	**NSYCUSP003DG**	-	**NSYCUSP004DG**	**NSYCUSP010DG**
NSYCU1KDG	-	**NSYCUSP003DG**	-	**NSYCUSP004DG**	**NSYCUSP010DG**
NSYCUX1KDG	-	**NSYCUSP003DG**	-	**NSYCUSP004DG**	**NSYCUSP010DG**
NSYCU1K2P4DG	-	**NSYCUSP003DG**	-	**NSYCUSP004DG**	**NSYCUSP010DG**
NSYCUX1K2P4DG	-	**NSYCUSP003DG**	-	**NSYCUSP004DG**	**NSYCUSP010DG**
NSYCU1K2DG	-	**NSYCUSP005DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU1K22P4DG	-	**NSYCUSP005DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU1K6DG	-	**NSYCUSP005DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCUX1K6DG	-	**NSYCUSP005DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU1K62P4DG	-	**NSYCUSP005DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU2KDG	-	**NSYCUSP005DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU2K3P4DG	-	**NSYCUSP007DG**	-	**NSYCUSP006DG**	**NSYCUSP010DG**
NSYCUX2K3P4DG	-	**NSYCUSP007DG**	-	**NSYCUSP006DG**	**NSYCUSP010DG**
NSYCU3K2DG	-	**NSYCUSP008DG**	-	**NSYCUSP005DG**	**NSYCUSP010DG**
NSYCU3K23P4DG	-	**NSYCUSP009DG**	-	**NSYCUSP007DG**	**NSYCUSP010DG**
NSYCU4K3P4DG	-	**NSYCUSP009DG**	-	**NSYCUSP007DG**	**NSYCUSP010DG**
NSYCU600RDG	**NSYCUSP001DG**	-	**NSYCUSP002DG**	-	**NSYCUSP010DG**
NSYCU800RDG	-	**NSYCUSP003DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU8002P4RDG	-	**NSYCUSP003DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU1K2RDG	-	**NSYCUSP003DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU1K22P4RDG	-	**NSYCUSP003DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU1K5RDG	-	**NSYCUSP003DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU1K52P4RDG	-	**NSYCUSP003DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU2KRDG	-	**NSYCUSP003DG**	-	**NSYCUSP003DG**	**NSYCUSP010DG**
NSYCU2K3P4RDG	-	**NSYCUSP006DG**	-	**NSYCUSP006DG**	**NSYCUSP010DG**
NSYCU3K3P4RDG	-	**NSYCUSP009DG**	-	**NSYCUSP007DG**	**NSYCUSP010DG**
NSYCU4K3P4RDG	-	**NSYCUSP009DG**	-	**NSYCUSP007DG**	**NSYCUSP010DG**
NSYCUHD350DG	**NSYCUSP001DG**	-	**NSYCUSP002DG**	-	**NSYCUSP010DG**
NSYCUHD600DG	**NSYCUSP001DG**	-	**NSYCUSP002DG**	-	**NSYCUSP010DG**
NSYCUHD800DG	-	**NSYCUSP003DG**	-	**NSYCUSP004DG**	**NSYCUSP010DG**
NSYCUHD1KDG	-	**NSYCUSP003DG**	-	**NSYCUSP004DG**	**NSYCUSP010DG**
NSYCUHD1K2P4DG	-	**NSYCUSP003DG**	-	**NSYCUSP004DG**	**NSYCUSP010DG**
NSYCUHD1K6DG	-	**NSYCUSP005DG**	**NSYCUSP003DG**	-	**NSYCUSP010DG**
NSYCUHD1K62P4DG	-	**NSYCUSP005DG**	**NSYCUSP003DG**	-	**NSYCUSP010DG**
NSYCUHD2K3P4DG	-	**NSYCUSP007DG**	-	**NSYCUSP006DG**	**NSYCUSP010DG**

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Useful Technical Information

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Useful Technical Information

Enclosures and Thermal Management Systems Certifications	610
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Enclosures and Thermal Management Systems Certifications

Range	Empty assemblies					Equipped assemblies
	Empty assemblies for low-voltage switchgear	Standards for industrial equipment and UL classification	Marine environment classification or approval for protection and resistance to vibrations	Enclosures installed in a potentially explosive atmosphere	Outdoor heavy-duty enclosures	Low-voltage switchgear and controlgear assemblies
	Standard/Directive					
	IEC 62208	UL508A and CAN CSA C22-2 no. 14	Compliance with requirements of certified bodies	European directive no. 2014/34/UE EN60079-0 / EN60079-7 EN60079-3 / EN60529	IEC 61439-5 ISO 12944-6 IEC 61969-3	IEC61439-1&2
PanelSeT - Steel and Stainless Steel Enclosures						
SBM	●	●	●			
S3D	● ● (6)	●	● ●			
CRN	● (6)	●	●			
S3DEX		●		●		
S3HF		●				
S3HD	● (6)	●			●	
S3CM		●				
SM	● ● (6)	●	●			
SFN	● ● (6)	●	●			●
SFHD	● ● (6)	●			●	●
PrismaSeT HD	● (6)					●
SBX	●	●	●			
S3X	●	●	●			
SMX	●	●	● (3)			
SFX	● (3)	●	● (3)			
PanelSeT - Polyester Enclosures						
TBS/TBP	●	● (1)				
PLS	●	●				
PLM	● ● (6)	●	●			
PLA	● ● (6)	●	●			
PLAT	● ● (6)					
PLAZ	● ● (6)					
PLAZT	● ● (6)					
PLD						
PHD	● (6)				● (2)	
ClimaSys (4)						
CV		●				
CU		●				
CE		●				
CR		● (5)				
CC		●				

(1) Only TBP.
(2) ISO 12944-6 only applies to the PanelSeT enclosures.
(3) Only for single-door versions
(4) EAC-compliant
(5) The insulated and aluminum resistance heaters of 12-24 V DC and 270-420 V AC are not certified
(6) Certificate by DEKRA
For other certifications and declarations of conformity please consult us.

Official Certification Body

Bureau Veritas	LCIE (Bureau Veritas)	Bureau Veritas Marine Division	TUV Rheinland Group	Underwriters Laboratories	Laboratorio Oficial J.M. Madariaga	DNV-GL	Dekra	Asefa
●	●	●	●	●	●	●	●	●

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The Main 10 Functions of Standard IEC 61439

For each of the following 10 functions, the standard IEC 61439 requires design verifications from the system manufacturer - mainly through type-tests defined in IEC 62208 - and routine verifications on each panel from the panel builder to achieve 3 basic goals: Safety, continuity of service and compliance with end-user requirements.

Safety

Voltage stresses withstand capability

- To withstand long term voltages, and transient and temporary overvoltages according to the insulation coordination principles and requirements.

Current-carrying capability

To help protect against fire and to withstand temperature rise:

- When any circuit is continuously loaded, alone, to the specified current
- When the assembly is loaded to the specified current according to the specified load pattern (between circuits and/or as a function of the time).

Short-circuit withstand capability

- To withstand the stresses resulting from the prospective short-circuit current and from the associated data (high forces between conductors, temp. rise in a very short time, air ionization, overpressure).

Protection against electric shock

- Hazardous live parts not to be accessible (basic protection).
- Accessible conductive parts not to become hazardous-live (fault protection).

Protection against risk of fire or explosion

- Resistance to internal glowing elements.

Comment: Protection of persons, and optional protection of the assembly, against arcing due to internal fault can be specified through a "special test" according to IEC 61641.

Continuity of Service

Maintenance and modification capability

Capability to preserve continuity of supply without impairing safety during assembly, maintenance or modification.

- Electrical condition of the assembly or various circuits.
- Speed of exchange of the functional units.
- Test facilities…

Electro-Magnetic Compatibility

To properly function (immunity) and not to generate EM interference (emission) in specified environmental conditions:

- Industrial networks or locations (Environment A).
- Domestic, commercial, and light industrial locations (Environment B).

Compliance with End-User Requirements

Capability to operate the electrical installation

To properly function, according to:

- The electrical diagram of the overall system and related information (voltages, coordination…),
- The specified operating facilities (e.g. free or restricted access to man-machine interfaces, isolation of the outgoing circuits…).

Capability to be installed on site

- To withstand handling, transport, storage and installation constraints.
- Capability to be set up and connected (type of enclosure, type, material and cross-sectional areas of external conductors).

Protection of the assembly against mechanical and atmospheric ambient conditions

- Presence of water or solid foreign bodies (IP according to IEC 60529).
- External mechanical impacts (optional IK according to IEC 62262).
- Indoor or outdoor installation (humidity, UV).

Both the Point of Arrival of Energy and a Device for Distribution to the Site Applications, the LV Switchboard Is the Intelligence of the System, Central to the Electrical Installation.

It plays an essential role in the availability of electric power, while meeting the needs of personal and property safety. Its definition, design and installation are based on precise rules; There is no space for improvisation. The IEC 61439 standard aims to better define "low-voltage switchgear and controlgear assemblies", helping ensure that the specified performances are reached. It specifies in particular:

- The responsibilities of each player, distinguishing those of the original equipment manufacturer; the organization that performed the original design and associated verification of an assembly in accordance with the standard, and of the assembly manufacturer - the organization taking responsibility for the finished assembly
- The design and verification rules, constituting a benchmark for product certification All the component parts of the electrical switchboard are concerned by the IEC 61439 standard. Equipment produced in accordance with the requirements of this switchboard standard helps ensure the safety and reliability of the installation.

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International Enclosure Standards

Standards IEC 62208,

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Comment:
European standard EN 62208 is identical to IEC 62208. European countries publish this standard according to the body in each country (for example BS EN 62208 in the UK).

Empty Enclosures for Low-Voltage Switchgear and Controlgear Assemblies. General Rules.

Application
For empty enclosures before adding the user's switchgear, in the condition as supplied by the manufacturer.

Field of application
Demands for testing the enclosures to be used as part of the switchgear assemblies for voltages of less than 1000 V alternating current and 1500 V direct current in accordance with IEC 61439.

Information supplied by the manufacturer
- Commercial trademark of the manufacturer: Schneider Electric.
- Mechanical characteristics, materials, conditions for use.
- Conditions for use: Ambient air temperature for outdoor installations: -25 to +40 °C.
- Atmospheric conditions for outdoor installations: The humidity may temporarily reach 100% at a temperature of 25 °C.
- Transport and storage conditions: From -25 to +55 °C; For limited periods not exceeding 24 h: Up to +70 °C.

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Standard Tests of Standard IEC 62208

- Static loads: Test 1.25 x maximum admissible load during 1 hour.
- Lifting: Applicable to enclosures with lifting accessories.
- Axial loads of metal inserts: 500 N for 10 seconds for M8 inserts.
- IK code: Test according to standard IEC 62262 with pendulum impact tester. The enclosure must maintain its IP rating after the test.
- IP rating: Test according to standard IEC 60529. Degree of protection against access to dangerous parts and the penetration of solid bodies and against the penetration of water.
- Thermal stability at a temperature of 70 °C: 7 days.
- Resistance to heat: Ball test at 70 °C.
  Information required for enclosures made from insulated material.
- Resistance to abnormal heat and to fire: Glow wire test according to IEC 60695-2-10 and IEC 60695-2-11.
  Information required for enclosures made from insulated material.
- Dielectric strength: 5000 V
  Information required for enclosures made from insulated material.
- Protection circuit continuity for metal enclosures: Resistance not to exceed 0.1 ohm.
- Weather resistance: Duration 500 h (cycle: Rain 5 minutes + UV lamp 25 minutes).

Corrosion resistance:
Severity Test A:
- 6 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
- 2 cycles of 24 hours of the salt mist test at 35 °C.

Severity Test B:
2 identical 12 day periods. Each one with:
- 5 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
- 7 cycles of 24 hours of the salt mist test at 35 °C.

Our empty enclosures are CE-marked according to the Low-Voltage Directive (LVD). It is the responsibility of the final equipment manufacturer to respect regulations in force.

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Selection According to the IP Protection Degrees

The degrees of protection, explained on the next page, is an important element when selecting the enclosures. The following table shows the protection degrees of the enclosures.

Name	Range	IP43	IP44	IP54	IP55	IP65 [7]	IP66
Metal industrial boxes	PanelSeT SBM						●
Metal derivation boxes	PanelSeT SDB				●		
Stainless-steel boxes	PanelSeT SBX						●
Steel wall-mounted enclosures	PanelSeT S3D				● [1]		●
Steel modular distribution wall-mounted enclosures	PanelSeT S3DM						●
Terminal wall-mounted enclosures	PanelSeT S3DB						●
Steel wall-mounted enclosures	PanelSeT S3HF				●		
Steel wall-mounted enclosures	PanelSeT CRN				● [1]		●
EMC steel floor-standing enclosures	PanelSeT SFHF				●		
HMI control enclosures	PanelSeT S3CM			●			
ATEX steel wall-mounted enclosures	PanelSeT S3DEX						●
Steel outdoor wall-mounted enclosures	PanelSeT S3HD						●
Stainless-steel wall-mounted enclosures	PanelSeT S3X				● [1]		●
Seismic and nuclear enclosures	PanelSeT S3D6G / PanelSeT S3D6GK3					●	
Terminal enclosures with FL21 cut-out	PanelSeT S3DBFL					● [6]	
Steel floor-standing enclosures	PanelSeT SM				●		
Steel suitable enclosures	PanelSeT SFN				●		
Steel outdoor floor-standing enclosures	PanelSeT SFN HD				●		
Stainless-steel floor-standing enclosures	PanelSeT SMX						● [7]
Stainless-steel suitable enclosures	PanelSeT SFX						● [7]
Functional steel floor-standing enclosures	PrismaSeT HD				●		
Steel control desks	PanelSeT SD				●		
Thermoplastic industrial boxes	PanelSeT TBS-TBP				● [4]		● [5]
Polyester modular boxes	PanelSeT PLS						●
Polyester wall-mounted enclosures	PanelSeT PLM						●
Polyester outdoor wall-mounted enclosures	PanelSeT PHD					●	
Polyester floor-standing enclosures	PanelSeT PLA [2]		●	●		●	
Polyester floor-standing enclosures	PanelSeT PLD	●		● [3]			
Polyester outdoor floor-standing enclosures	PanelSeT PHD				●		

[1] Double-door.
[2] Different IP depending on the version. See introduction in PanelSeT section: PLA: IP65, PLAT / PLAZT: IP44, PLAZ / PLAT / PLAZT with grille: IP54.
[3] With gasket.
[4] Button boxes.
[5] Universal boxes.
[6] With membrane mounted.
[7] Single-door enclosure.

The Universal Offer

> 3 Material Options

Steel

Stainless-Steel

Plastic and Polyester

Selection According to Ambient Conditions

The location of the enclosures and the physical, chemical and climatic conditions to which they are exposed will determine the model to be used.

Steel enclosures are particularly well suited to indoor use in industrial environments.
Stainless-steel enclosures are particularly well suited to corrosive environments or areas where specific hygiene demands are applicable.
Polyester enclosures are particularly well suited to severe corrosive atmospheres, indoors or outdoors.

Enclosures made from insulated materials that helps ensure total insulation, reducing electric hazards for persons.
The main characteristics of the plastic materials of our enclosures and their chemical strength are given on page 618.

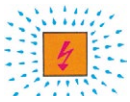
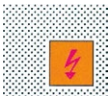
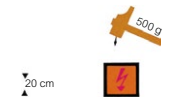
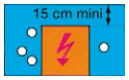
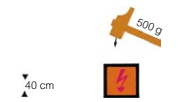
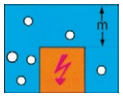
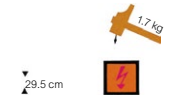
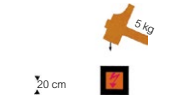
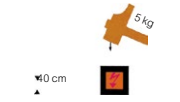
Further help for making the selection is given by the NEMA or UL classification of the enclosure, see page 615.

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Degrees of Protection Provided by Enclosures

- The degrees of protection provided by the enclosures are defined by standards IEC 60529 (IP) and IEC 62262 (IK).
- Degrees of protection are indicated by the letters IP followed by two characteristic numerals. The numerals show the degree of protection offered by the enclosure against access to hazardous parts, the penetration by solid bodies (1st numeral), and against the penetration of liquids (2nd numeral).
- The protection against external mechanical impact is indicated by the letters IK followed by a characteristic group numeral.

Comment:
Many EN European standards are harmonized with international IEC standards.
This is the case with enclosure protection standards:
- EN 60529 = IEC 60529
- EN 62262 = IEC 62262

	IP	IK
First numeral Protection against solid bodies	**Second numeral Protection against liquids**	**Mechanical protection**
0 No protection	**0** No protection	**0** No protection
1  Protected against solid bodies larger than 50 mm (e.g.: Incidental contact with the hand)	**1**  Protected against vertically falling water droplets (condensation)	**1**  Impact energy: 0.150 Joules
2  Protected against solid bodies larger than 12 mm (e.g.: Finger contact)	**2**  Protected against water droplets deflected at up to 15° from vertical	**2**  Impact energy: 0.200 Joules
3  Protected against solid bodies larger than 2.5 mm (tools, cables)	**3**  Protected against rainwater at up to 60° from vertical	**3**  Impact energy: 0.350 Joules
4  Protected against solid bodies larger than 1 mm (fine tools, small cables)	**4**  ⚠ Protection against water spray from all directions	**4**  Impact energy: 0.500 Joules
5  ❖ Protected against dust (no harmful deposits)	**5**  ⚠⚠ Protected against low-pressure water jets from all directions	**5**  Impact energy: 0.700 Joules
6  ❖ Totally dust tight	**6**  Protected against powerful water jets from all directions	**6**  Impact energy: 1.00 Joules
	7  ⬇⬇ Protected against the effects of immersion	**7**  Impact energy: 2.00 Joules
	8  ⬇⬇ ... m Protected against prolonged effects of immersion under pressure	**8**  Impact energy: 5.00 Joules
		9  Impact energy: 10.00 Joules
		10  Impact energy: 20.00 Joules

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Classification of Electrical Equipment

Classification of Electrical Equipment Enclosures According to NEMA and UL

NEMA and UL are standardization bodies, commonly recognized in North America, which have issued classifications of enclosures according to the protection offered in various environments. These classifications are similar.

Enclosures		Type of protection [1]													
Name	Range	1	2	3	3R	3S	3X	3RX	3SX	4	4X	5	6	12	13
Metal industrial boxes	SBM									●	●				
Stainless-steel industrial boxes	SBX									●	●				●
HMI control enclosures	S3CM	●	●		●									●	●
Steel wall-mounted enclosures	S3D [1]	●	● [2]	● [2]	● [2]					● [2]	● [2]	● [2]		●	● [2]
Steel wall-mounted enclosures	S3HF	●	●	●	●									●	●
Steel outdoor wall-mounted enclosures	S3HD	●	●	●	●					●	●	●		●	●
Steel wall-mounted enclosures	CRN	●	● [2]	● [2]	● [2]					● [2]		● [2]		●	●
Stainless-steel wall-mounted enclosures	S3X	●	● [2]	● [2]	● [2]					● [2]	● [2]	● [2]		●	● [2]
Steel floor-standing enclosures	SM	●	● [2]	● [2]	●							● [2]		●	●
Polyester heavy-duty	PHD	●	●	●	●					● [2]	● [2]	●		●	●
Steel suitable enclosures	SFN	●			●									●	
Steel outdoor floor-standing enclosures	SFN HD	●			●									●	
Stainless-steel floor-standing enclosures	SMX	●	● [2]	● [2]	● [2]					● [2]	● [2]	● [2]		●	●
Stainless-steel floor-standing enclosures	SFX	●	● [2]	● [2]	● [2]					● [2]	● [2]	● [2]			● [2]
Thermoplastic boxes	TBP	●		●		●				●	●				
Polyester modular boxes	PLS	●	●	●	●	●				●	●			●	●
Polyester wall-mounted enclosures	PLM	●	●	●	●	●				●	●	●		●	●
Polyester floor-standing enclosures	PLA	●	●	● [2]	●	● [2]	● [2]	●	● [2]			●		●	●

[1] Also S3DM, S3DC.
[2] 1 door.

Components		Type of protection [5]											
Name	Range	1	2	3	3R	3S	4	4X	5	6	6P	12	13
Airing system	CV											● [3]	
Thermal control system	CC	● [3]											

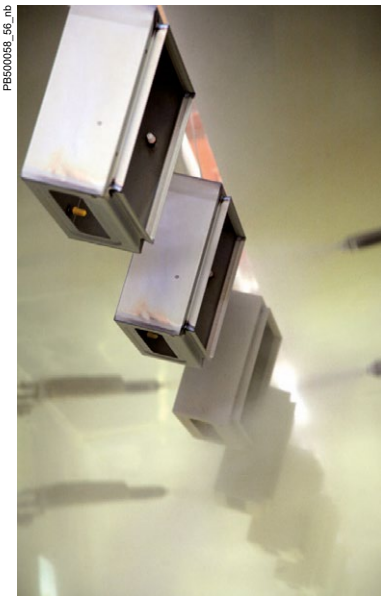
[3] In some ranges the classification depends on the model and version. The detailed protection types are indicated in the UL certifications.

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Painting Properties

Polyester Base-Painting Properties

PB500058_56_nb



Product type

Thermosetting polyester resins based powder painting modified by epoxy resins and designed for decoration and to help prevent corrosion.
The performance of this painting is superior to conventional epoxy powders in terms of color stability, temperature resistance and weather resistance.
RAL 7035 gray; Surface finish: Structured.

Mechanical properties

Testing conditions: Steel samples with a thickness of 10/10^{e} mm.
Degreasing using biodegradable surface-active agents.
Film thickness: 60 microns.

Bonding (scratching and adhesive tape)	ISO 2409	≥ to Class 1
Ericksen stamping	ISO 1520	≥ 7 mm
Direct impact resistance	ISO 6272	> 1 kg/70 cm
Indirect impact resistance	ISO 6272	> 1 kg/20 cm
Bending around conical mandrel	ISO 6860 - ASTM D 522-88	Maximum cracking of 70 mm, without the paint coming loose

Chemical properties

Tests conducted at ambient temperature on phosphated samples covered with a 70 to 100 micron film:

Film intact.
Film attacked (blistering, yellowing, loss of gloss).

Number of months			2	4	6	8	10	12
Acid	Acetic	20%						
	Sulphuric	30%						
	Nitric	30%						
	Phosphoric	30%						
	Hydrochloric	30%						
	Lactic	10%						
	Citric	10%						
Base	Soda	10%						
	Ammonia	10%						
Water	Distilled water							
	Sea water							
	Tap water							
	Diluted chloride bleach							
Solvents	Petrol							
	Higher-grade alcohols							
	Aliphatics							
	Aromatics							
	Ketone-ester							
	Tri-perchlorethylene							

Physical properties

Temperature resistance: -40 °C and 100 hours at +150 °C (color: White).
Gloss retention: Good.

Resistance to corrosion

Compliance with standard IEC 62208 for outdoor installations: 288 h of humid heat and 336 h of salt mist.

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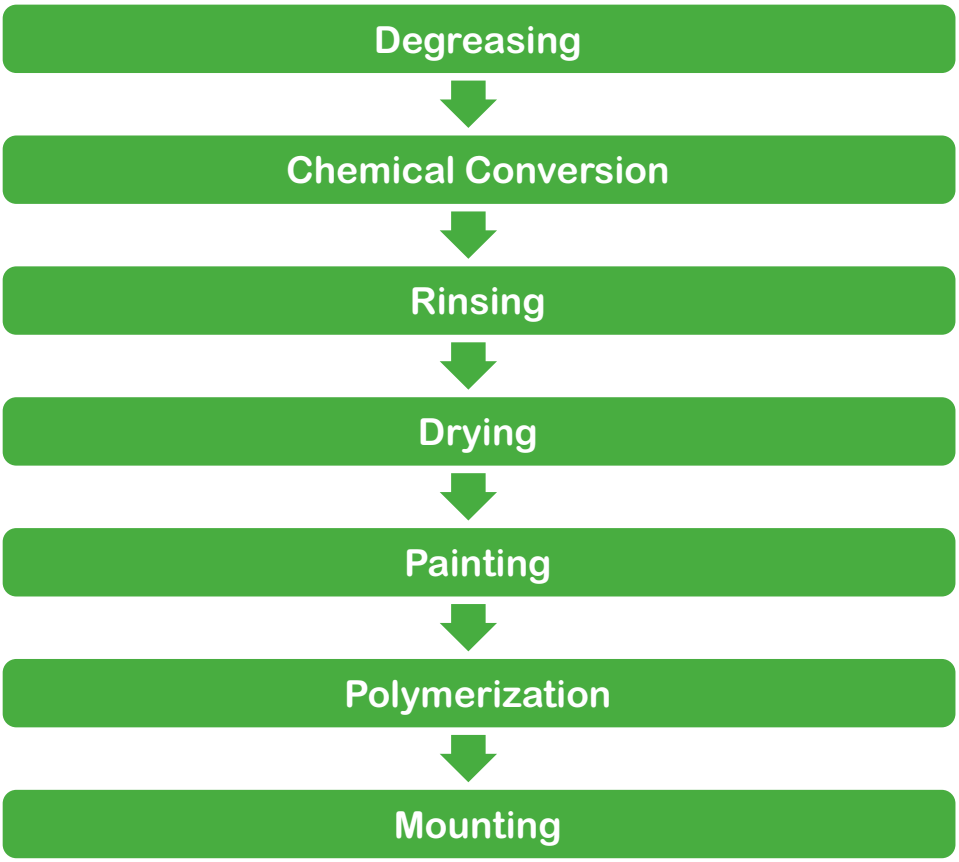
Polyester Base-Painting Properties

Nuclear decontamination
Applicable to colors RAL 7035 gray and AFNOR A550.
Standard NFT 30901. Percentage of decontamination for contamination by fission products. Please consult us for further details.

Accelerated aging
Standard IEC 62208: 500 h UV according to ISO 4892 (method A)
(adherence of the painting with minimum retention of 50% on the grid according to ISO 2409).

Fire behaviour
Class M1 (self-extinguishing material).
Class M0 (for painting on a metal base).

Manufacturing process



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Properties of Plastic Materials

Properties of Plastic Materials - Mechanical, Electrical, Physical and Fire-Resistance Properties

Plastic materials generally used to manufacture our products:

- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester reinforced with fiberglass.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Comment:
For other chemical agents, please contact us.
All information provided here is taken from the sources and provided for information purposes only, with no commitment on our behalf.

Specifications	Standards	Units	ABS	Polycarbonate	PVC	Bayblend®	Polyester	SBS
Mechanical properties								
Tensile strength	ISO 257	MPa	44	> 65	45	35	85	5
Tensile strain	ISO 527	%	12	> 110	120 bis 150	40	0	600
Impact resistance	ISO 179	kJ/m²	125	No breakage	25	No breakage	60	No breakage
Notching resistance	ISO 179	kJ/m²	19	25	20	25	50	-
Electrical properties								
Stress point	IEC 60112	-	-	250-300	> 600	> 550	> 600	-
Surface strength	IEC 60093	Ω	1015	> 1015	> 1013	> 1014	≥1012	> 1013
Dielectric strength	IEC 60243	kV/mm	16.5	> 30	30	24	18-20	20
Specific resistivity	IEC 60093	Ω³cm	1015	> 1016	≥ 1015	1016	≥ 1012	> 1016
Physical properties								
Softening temperature (Vicat B)	ISO 306	°C	95	145-150	79-80	115	(1)	80
Temperature resistance	-	°C	-40...+90	-50...+125	-20...+65	-35...+90	-50...+150	-40...+120
Water absorption	ISO 62	%	0.2 - 0.45	0.15	< 0.1	0.2	0.2	-
Specific weight	ISO 1183	kg/dm³	1.04	1.21	1.4	1.12	1.85	0.3 in 24 h
Fire resistance								
Oxygen index	ISO 4589	%	19	26	45-50	22	24.4	18
Glow wire resistance, 2 mm	IEC 60695-2-10	°C	650	960	960	750	960	750° (1.5 mm)
Glow wire resistance, 3 mm	IEC 60695-2-10	°C	650	960	960	750	960	NA

(1) No softening of the polyester.

Specifications	Standards	Units	Altuglas	Polypropylene	Polystyrene	Polyamide 6	Polyamide 12
Mechanical properties							
Tensile strength	ISO 257	MPa	30	35	24	40	30
Tensile strain	ISO 527	%	5	400	36	200	300
Impact resistance	ISO 179	kJ/m²	20	20	63	No breakage	No breakage
Notching resistance	ISO 179	kJ/m²	3	5	50	31.2	15
Electrical properties							
Stress point	IEC 60112	-	-	-	KB175	KB175	KB180
Surface strength	IEC 60093	Ω	≥ 1014	-	> 1013	1012	5 x 1010
Dielectric strength	IEC 60243	kV/mm	13-15	20	≤ 40	23	55
Specific resistivity	IEC 60093	Ω³cm	> 1015	> 1016	> 1015	1011	3 x 1011
Physical properties							
Softening temperature (Vicat B)	ISO 306	°C	120-122	75 (vicat A)	79	230	140
Temperature resistance	-	°C	-20...+80	-10...+80	-15...+60	-20...+100	-50...+125
Water absorption	ISO 62	%	< 0.5	0.1 in 24 h	0.1 in 24 h	1.6	1.5
Density	ISO 1183	kg/dm³	1.18	0.91	1.06	1.14	1.03
Fire resistance							
Oxygen index	ISO 4589	%	18.5	18	18	24	22
Glow wire resistance, 2 mm	IEC 60695-2-10	°C	-	650	650	750	650
Glow wire resistance, 3 mm	IEC 60695-2-10	°C	960	650	650	850	650

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Properties of Plastic Materials

Properties of Plastic Materials - Resistance to Chemical Agents

Plastic materials generally used to manufacture our products:

- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

The table shows:

The concentration of the chemical agent in %;

- Sat = saturation.

The resistance of the material:

- +: Resistant.
- O: Limited resistance.
- –: Not resistant.

Resistance to	ABS		Polycarbonate		PVC		Bayblend®		Polyester		Altuglas		Polypropylene		Polystyrene		Polyamide 6		Polyamide 12		SBS	
Acetone		–		–		–		–		–		O	100	+		–	100	+		+		+
Hydrochloric acid	15	+	10	+	30	+	20	+	30	+	sat	+	10	+		O	10	–	10	+	10	+
Citric acid			10	+	sat	+	10	+	100	+	sat	+	sat	+		+	10	O		+	10	+
Lactic acid	80	+	10	+	90	+	10	–	100	+	20	+	90	+		O	50 90	O –		+ +	sat	+
Nitric acid	30	+	10 100	+ –	50	+	10	+	20	+ +	10 100	+ –	25/ 50			O	2 10	O –		–	50	+
Phosphoric acid	85	+	100	+	sat	+		+	100	+	10 95	+ –	sat	+		O	2 10	O –	50	+		+
Sulphuric acid	50	+	50 100	+ –	96	+	30	+	70	+	30	+	96	+		O	3	–	10	+	96	+
Alcohol		O	96	+	96	+		–	50	O	50	O	96	+		+	96	O	96	+		+
Pure aniline		O		–	100	–		–		O		–	100	+			100	O	100	O		
Benzene		+	100	–		–		+		–		O	100	O			100	+		+		–
Liquid bromine			100	–		–		–					100	–					100	–		–
Liquid chlorine				-	100	-		-	sat	+		–	100	–			100	O		–	50	+
Sea water		+	100	+	100	+		+	100	+	100	+		–	100	+			100	+	sat	+
Petrol		+	100	+	100	O		–	100	+	100	O		–		–	100	+		+		–
Ether		–	100	O	100	–		–	100	O		+					100	+	100	+		–
Hexane		O		+		O		O		–			100	+			100	+	100	+		–
Oil and greases		+	100	+	100	+		O	100	+	100	O	100	+		–		+	100	+		–
Aromatic hydrocarbon		O		–		–		–		–		+	–			–		–		+		–
Fuel oil		O	100	O	100	+		–	100	+	100	–	100	+			100	+	100	+		–
Naphthalene					100	O		–	100	+	100	–	100	+			100	+	100	+		
Nitrobenzene		–		–	100	–		–				–	100	O				–		O		–
Phenol		–		–	sat	O		–	20	O		–	sat	+				–		–	10	O
Mineral salts				+		+		+		+		+		+						+		+
Iodine solution				O		–		+				–						+				
Toluene		–		–	100	–		–		+		O	100	O		–	100	+	100	+		–
Trichloroethylene		–		–	100	–		–		–		–	100	O		–	100	–	100	O		–
Urea			sat	+	sat	+		+					sat	+			10	+	sat	+	sat	O

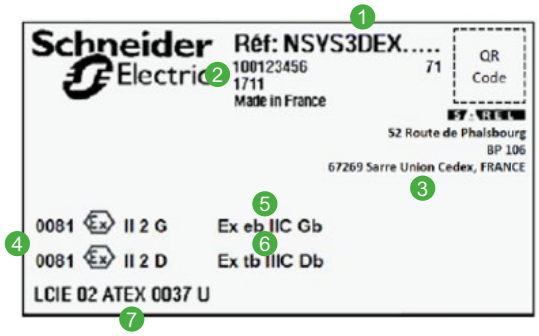
Comment:
For other chemical agents please contact us.
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Description of Marking Label Affixed

Description of Marking Labels on ATEX-Certified Wall-Mounted Enclosures

Panel**SeT** S3DEX



1
Range of the product with its dimensions

2
100123456 71: exemple of the serial number
1711: exemple of the year and the month of the manufacturing

3
Address of manufacturer

4
0081: identification number of the notified body for the application of the ATEX directive
: distinctive mark indicating that the product is authorized in an explosive atmosphere
II: Industry group (II = surface industries)
2: device category (2 = occasional presence, Zone 1 or 21)
G: atmosphere type (G = gases and vapors)
D: atmosphere type (D = dust)

5
Ex: symbol that indicates the product complies with one or several protection modes
eb: protection level of type of protection "e" for increased safety (EN 60079-7)
II C: group of gaz (hydrogen/acetylene)
Gb: type of protection for non-electric material (control of power supply)
G = gaz

6
Ex: symbol indicating that the product complies with one or several protection types
tb: protection level of type of protection "t" per enclosure (EN 60079-31)
III C: type of dust (conductive dust)
Db: type of protection for non-electric material (control of power supply)
D = dust

7
Number of the EC type examination certificate
(Included the name of the certification body)

Download our ATEX certificates from our site.

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Steel Enclosures

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NSYBPN1810	78
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NSYBPN2010	79
NSYBPN2012	79
NSYBPN2016	79
NSYBPN2210	79
NSYBPN2212	79
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