Spacial SF - SM

Composition accessories

Locking system

Handle for shape inserts and cylindrical barrels

- Handle lock allowing the door to be opened: with a single movement.
- Standard handle for the entire range of Spacial SF and Spacial SM enclosures; does not include the insert when ordered as an accessory.
- Easy and quick installation of inserts without needing screws.
- Allows the installation of shape inserts without needing screws.
 Allows the installation of shape inserts and cylindrical barrels.
 The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Easy fixing by means of screws.
 Space reserved for enclosure identification, 21 × 27 mm, protected by a label
- frame. Material:

Supply: standard handle and fixing elements (insert not included).

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- Handle: polyamide 6 with 30% fibreglass, RAL 9005 black.
- Label frame: polycarbonate.
- UV resistant.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.



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> Advantage: Easy opening.





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Composition accessories

Locking system

Shape inserts and cylindrical barrels

		Shape inserts	Reference
		6-mm square insert	NSYINS61
		Female 6-mm square insert	NSYINS6G1
		7-mm square insert	NSYINS71
		8-mm square insert	NSYINS81
		Female 8-mm square insert	NSYINS8G1
		8-mm square insert with slot	NSYINS8H1
		6.5-mm triangular insert	NSYINT61
		7-mm triangular insert	NSYINT71
5		8-mm triangular insert	NSYINT81
She in	-	9-mm triangular insert	NSYINT91
5	1	10-mm triangular insert	NSYINT101
	200	10-mm keyless hexagonal insert	NSYINH31
		3-mm double-bar insert	NSYINDB31
		5-mm double-bar insert	NSYINDB51
		Daimler Benz insert	NSYINBENZ1
		Fiat insert	NSYINFIAT1
		Keyless USA slot insert	NSYINUSA1
		Keyless 2 $ imes$ 4 slot insert	NSYIN241
		Crown insert	NSYINCW1

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Push button		Reference
Ý	Push button	NSYINPULS1

For installing shape inserts and cylindrical barrels in handle types DIN, KABA and ASSA (ref. NSYSFHD2), see adapter (ref. NSYLADP) page 3/73.

	Cylindrical barrels	Reference
	405E key lock	NSYIN405E1
	421E key lock	NSYIN421E1
	455 key lock	NSYIN4551
	1242E key lock	NSYIN1242E1
	1332E key lock	NSYIN1332E1
	2124E key lock	NSYIN2124E1
	2131A key lock	NSYIN2131A1
	2132A key lock	NSYIN2132A1
	2331A key lock	NSYIN2331A1
	2433A key lock	NSYIN2433A1
	2452E key lock	NSYIN2452E1
	3113A key lock	NSYIN3113A1
C (3122E key lock	NSYIN3122E1
	3123A key lock	NSYIN3123A1
	3133A key lock	NSYIN3133A1
	3422E key lock	NSYIN3422E1
	3432E key lock	NSYIN3432E1
	EDF1300 key lock	NSYINF1301
	EDF1400 key lock	NSYINF1401
	Michelin 8079 keyless lock	NSYINICHEL8791
	Michelin 8133 keyless lock	NSYINICHEL8131
	Michelin 8376 keyless lock	NSYINICHEL8371
	E1 keyless lock	NSYINE11

Composition accessories

Locking system

Handle for insert types DIN, KABA, ASSA

- Easy-opening handle lock: requires a single movement.
- The inserts are easily and quickly mounted without any screws and allow the installation of profiled DIN, KABA and ASSA locks.
- To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. **NSYLADP**.
- The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Mounting on the door by means of screws.
- \bullet Space reserved for enclosure identification, 21 \times 27 mm, protected by a label frame.
- Material:

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- Handle: polyamide 6 with 30% fibreglass, RAL-9005 colour.
- Label frame: polycarbonate.
- UV resistant.
- Fire resistance: 650 °C.
 Resistance to external mechanical impacts: IK10.



Reference NSYSFHD2

Lo	ck system: DIN, KABA and ASSA	Reference
-	Adapter for DIN cylinder	NSYINDIN2
	Adapter for KABA cylinder (1)	NSYINKBA2
	Adapter for ASSA cylinder	NSYINASSA2
And A	1242E key lock	NSYIN1242E2
	Reinforced key lock	NSYINKR2
	JIS key lock	NSYINKJIS2
	FAC key lock	NSYINKFAC2

(1) Adapter for receiving the KABA8, KABA20 and KABA start cylinders.



Insert dimensions for DIN adapters.

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Insert dimensions for KABA adapters.



Insert dimensions for ASSA adapters.

Spacial SF - SM



Composition accessories Locking system

Double-insert handle

- Easy-opening handle lock: requires a single movement. Allows two inserts to be installed in the same lock.
- To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. NSYLADP.
- The handle can perform the "AND" and "OR" functions. The elements for performing these 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.
- The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Mounting on the door by means of screws.
- \bullet Space reserved for enclosure identification, 21 \times 27 mm, protected by a label frame.
- Material:
- Handle: polyamide 6 with 30% fibreglass, RAL 9005 colour.
- Label frame: polycarbonate.
- UV resistant.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.



Reference NSYSFHD3

Adapter for shape inserts and cylindrical barrels

 Plastic adapter for installing shape inserts and cylindrical barrels in handle lock types DIN, KABA, ASSA.





- See shape inserts and cylindrical barrels on page 3/71.
- See insert types DIN, KABA, ASSA on page 3/72.

F	leference
١	ISYLADP



3

Composition accessories

Locking system



Padlock locking

- Padlock locking system, for installation in all the handles of the Spacial SF and Platiotic locking system, respectively.
 Spacial SM enclosures.
 Bolt with 7.5-mm drill hole.

Supply: one cut-out handle, bolt for padlock and bolt fixing screw. 7





CNOMO kit

- Locking system to be installed on the central locking bar of the door. It works as a locking bar immobiliser, preventing 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.



[7 Supply: one mechanism, 6.5-mm triangular insert, key and fixing elements.



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Spacial SF - SM

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Locking system

Flat escutcheon lock

- Optional flat escutcheon lock. Replaces the handle lock.
- Optional flat escutcheon lock. Replaces the handle lock.
 The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Mounting on the door by means of screws.
 Possibility of changing the turning direction of the insert.
 Material: polyamide 6 with 30% fibreglass, RAL 9005 black.
 UV resistant.
 Eiro resistance. 650 000

- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.

Supply: flat lock, shape insert, key and fixing elements.



	Models	Reference
	Flat lock + screwdriver slot, 2-mm groove	NSYSFLOCK24
	Flat lock + 8-mm triangular insert	NSYSFLOCKT8
0	Flat lock + 7-mm triangular insert	NSYSFLOCKT7
0	Flat lock + 6.5-mm triangular insert	NSYSFLOCKT6
0	Flat lock + 8-mm female square insert	NSYSFLOCKSG8
	Flat lock + 8-mm square insert	NSYSFLOCKS8
	Flat lock + 7-mm square insert	NSYSFLOCKS7
T	Flat lock + 6-mm square insert	NSYSFLOCKS6
6	Flat lock + 5-mm double-bar insert	NSYSFLOCKDB5



Applications

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	Prisma Plus application	3/121
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Compartimentalised enclosure

Composition accessories

Compartmentalised enclosure application

- The compartimentalised enclosure separates the various working areas, restricting their access.
- The closed compartments make it possible:
- To insulate the control of a device mechanically and electrically.
- To reduce the destructive effects of a short-circuit.

Composition

- Structure: top and bottom frame and vertical uprights.
- Fixed panels: top and bottom, to allow modularity.
- 2 intermediate crossbars.
- Removable roof. • External fixing rear panel.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.





Exte	rnal dimensions (Useful height	Deference		
Height	Width (B)	Depth (C)	for doors (mm)	Reference	
2000	000	600	1800	NSYSF20660M	
	600	800	1800	NSYSF20680M	
	800	600	1800	NSYSF20860M	
		800	1800	NSYSF20880M	



Enclosure cladding accessories, see page 3/78



Equipment support accessories, see page 3/85.



Optional composition accessories, see page 3/36.



Compartimentalised enclosure

Composition accessories

Standard side panels External fixing • Set of 2 side panels fixed to the outside of the enclosure. • Captive screws. • Material: steel painted with encycophyster resin, texture

• Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: two side panels with external fixing, supplied with sealing gasket.

Spacial SF di	Deferrerer		
Height Depth		Reference	
2000	600	NSY2SP206	
2000	800	NSY2SP208	

Plinth

- See composition accessories: floor, page 3/36.
- Model heights: 100 and 200 mm.

Front plinth

- 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.

Plinth side panels

Supply:

- Height 100 mm: two side panels, four corner covers and fixing elements.
 Height 200 mm: four side panels (height of 100 mm, 2 for each side), four
 - corner covers and fixing elements.

Spacial SF Dimensions (mm)		Front plinth reference (mm)		Plinth side panel reference (mm)			
Width	Depth	100	200	100	200		
600	600	NOVODECION	NOVODECION	NOVODECANO	NOVODECOM	NSYSPS6100	NSYSPS6200
600	800	NSTSPF0100	NST 5PF0200	NSYSPS8100	NSYSPS8200		
800	600	NSYSPF8100	NEVEDERIO	NSYSPS6100	NSYSPS6200		
800	800		NOT 3PF8200	NSYSPS8100	NSYSPS8200		







Compartimentalised enclosure

Composition accessories



Fixed panel for modularity

- Panel fixed to the structure of the enclosure by means of screws.
- Recommended for enclosure kits.
- It is installed at the top and bottom of the enclosure, to obtain the modularity required to install partial doors.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: two panels and fixing elements.

Spacial SF di	Deference		
Height (A)	Width (B)	Reference	
100	600	NSYMFP16	
	800	NSYMFP18	
300	600	NSYMFP36	
	800	NSYMFP38	







A-A





Intermediate crossbar

- Crossbar with direct fixing to the structure.
- It is mounted between partial doors or between doors and control desk,
- guaranteeing good sealing.
 Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.



Spacial SF Dimensions (mm)	Reference
Width (B)	
600	NSYMIC6
800	NSYMIC8





Composition accessories



Partial doors

- Two partial door versions:
- Plain partial door.

- Transparent partial door with Securit[®] glass.
 They are fixed to the uprights of the structure by means of hinges.
 Locking system with small flat escutcheon, made from polyamide 6 with 30% fibreglass, RAL-9005 black, with 3 mm double-bar metal insert.
- 1 locking point for doors with heights of 200 and 400 mm, and 2 locking points for doors with heights of 600 to 1000 mm.
- Opening to the right or left.
- 2 vertical reinforcement frames, cut-out with a pitch of 25 mm; except doors with a height of 200 mm.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: partial door, hinges and fixing elements. \square

Spacial SF dimensions (mm)		Plain partial	Transparent partial
Height (A)	Width (B)	door reference	door reference
200		NSYMPD26	NSYMPD26T
400	600	NSYMPD46	NSYMPD46T
600		NSYMPD66	NSYMPD66T
800		NSYMPD86	NSYMPD86T
1000		NSYMPD106	NSYMPD106T
200		NSYMPD28	NSYMPD28T
400		NSYMPD48	NSYMPD48T
600	800	NSYMPD68	NSYMPD68T
800		NSYMPD88	NSYMPD88T
1000		NSYMPD108	NSYMPD108T



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Compartimentalised enclosure

Composition accessories



Folding panels

- Horizontal panel, hinged at the top.
 Guarantees protection of the sets of bars.
 Opening angle: 90°.
 It is installed together with partial doors to create the modularity of the enclosure.
 Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.
 Locking system with two small flat escutcheons, made from polyamide 6 with 30% fibrealean BAL 0005 block with 2 m double becineret.
- fibreglass, RAL 9005 black, with 3-mm double-bar insert.

Supply: one folding panel, hinges and fixing elements.

Nominal dimensions (mm)		Reference	
Height	Width (B)	Reference	
200	600	NSYCDP36	
300	800	NSYCDP38	







Compartimentalised enclosure

Composition accessories

Partial door for folding panel

- Can be combined with folding panels and with the rest of the partial doors.
 Plain partial doors with handle lock with 5-mm double-bar insert.
 4 locking points and 2 or 3 hinges according to the height:

 2 hinges, heights of 1200 and 1400 mm.
 3 hinges, height of 1600 mm.

 Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: one partial door, hinges and catches of the locking system.

Nominal dimensions (mm)		Plain partial
Height (A)	Width (B)	door reference
1200		NSYMPD126
1400	600	NSYMPD146
1600	-	NSYMPD166
1200		NSYMPD128
1400	800	NSYMPD148
1600		NSYMPD168



Compartimentalised enclosure

Composition accessories



Drilling template

- Guide for drilling the vertical uprights, prior to installing the partial doors.
- It can be reused.
 Material: zinc-coated steel.





Control desk

- Support for human-machine dialogue.
 It is fixed directly to the structure of the enclosure and can be inserted the same as the partial doors.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.
 Locking system with small flat escutcheons, made from polyamide 6 with 30% fibreglass, RAL 9005 black, with 3-mm double-bar metal insert.

Supply: one control desk and fixing elements. าก

Nominal dimensions (mm)		Peference
Height	Width (B)	Reference
400	600	NSYMCOD264
400	800	NSYMCOD284





Compartimentalised enclosure

Composition accessories

Locks

- Locks to replace the 3-mm double-bar lock supplied with the partial doors, folding panel and control desk.Models:
- Transformation of lock with shape inserts, triangular 6.5 mm and square 6 mm. - Lock with 2233X key for partial doors.
- Lock with 2233X key for folding panel and control desk.

N. Supply:

- One lock with shape inserts, triangular 6.5 mm and square 6 mm: metal body, shape insert and safety washer.
- One lock with 2233X key for partial doors: metal body, insert, bolt, safety washer and key.
- One lock with 2233X key, exclusive for folding panel and control desk: metal body, insert, special bolt, safety washer and key.

Description	Reference
Lock with 6.5-mm triangular insert for control desk and partial, hinged door	NSYMLT6
Lock with 6-mm square insert for partial door, folding	NSYMLS6
Lock with 2233X key for partial door	NSYML23
Lock with 2233X key for folding panel and control desk	NSYMLCD23

Examples of composition accessories







Compartimentalised enclosure

Mounting accessories



Side partitions

- Side partitions which guarantee good insulation of the compartments.
- Direct fixing on the structure of the enclosure.
 Material: galvanised steel.

Supply: two side partitions and fixing elements. ١Л

Nominal dimensions (mm)		Defenseres
Height (A)	Depth (C)	Reference
200	600	NSYMSC26
	800	NSYMSC28
400	600	NSYMSC46
	800	NSYMSC48





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Rear partitions

- Rear enclosing plates for forming modules, also allowing the installation of Activity of the second plates of forming modules, also the equipment.
 They are installed at the rear of the partition tray.
 Material: galvanised steel.

Supply: 1 rear partition and fixing elements. n

Nominal dimensions (mm)		Deferrerer
Height (A)	Width (B)	Reference
200		NSYMBC26
400		NSYMBC46
600	600	NSYMBC66
800		NSYMBC86
1000		NSYMBC106
200		NSYMBC28
400		NSYMBC48
600	800	NSYMBC68
800		NSYMBC88
1000		NSYMBC108





Mounting accessories



Fixing kit

- Provide the fixing of the mounting plate.

- Provide the fixing of the mounting plate.
 They are fixed to the side enclosing plates.
 Models:
 Fixed: allow adjustment with a pitch of 50 mm.
 Adjustable: allow continuous adjustment for depths of 600 and 800 mm.
 Material: zinc-coated steel.

Supply: four units and fixing elements.

Model	Nominal dimensions (mm)	Peference	
Woder	Depth	Reference	
Fixed	-	NSYCFIX	
Adjustable	600	NSYCFIX6	
Adjustable	800	NSYCFIX8	





Mounting plate

- Plate for fixing elements.
- It is mounted fixed on the fixing kit, with ref. NSYCFIX, or with adjustable depth with ref. NSYCFIX6 or NSYCFIX8.
- Material: galvanised steel.



Supply: one mounting plate.

Nominal dimensions (mm)	
Width (B)	Reference
	NSYMP26
	NSYMP46
600	NSYMP66
	NSYMP86
	NSYMP106
800	NSYMP28
	NSYMP48
	NSYMP68
	NSYMP88
	NSYMP108
	ensions (mm) Width (B) 600 800



Compartimentalised enclosure

Mounting accessories



Side enclosing plate

- Plate to be installed between the side partitions, achieving full enclosure of the module.
- It is fixed to the side partition from the outside of the enclosure.
- Material: galvanised steel.

Supply: one side enclosing plate and fixing elements.

Spacial SF Dimensions (mm)	Reference	
Depth		
600	NSYCMOD6	
800	NSYCMOD8	

3







Partition tray

- Guarantees horizontal insulation of the modules.
- It is fixed to the front frame, supported by the side partitions.
- Material: galvanised steel.

Supply: one partition tray and fixing elements.

Spacial SF dimensions (mm)		Deference
Width	Depth	- Reference
600	400	NSYSTR64
	500	NSYSTR65
800	400	NSYSTR84
	500	NSYSTR85

Compartimentalised enclosure

Mounting accessories



Tray crossbar

- To be installed between partial doors separated with a partition tray.
- It is fixed to the partition tray by screws.
 Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: one tray crossbar and fixing elements. าก

Spacial SF Dimensions (mm) Width	Reference
600	NSYTRG6
800	NSYTRG8





Partial 19" fixed rack

- Designed for coupling to enclosures with a width of 600 mm.
 Direct fixing to the structure, in front position.
- Maximum load: 2 kg/u.
- Material: zinc-coated steel.

N Supply: two racks, two horizontal escutcheons and fixing elements.

Enclosure height (mm)	No. of units	Reference
200	3	NSYCRCKP3
400	7	NSYCRCKP7
600	12	NSYCRCKP12
800	16	NSYCRCKP16
1000	21	NSYCRCKP21
1200	25	NSYCRCKP25



Compartimentalised enclosure Mounting accessories

Examples of mounting accessories





PC rack





Technical characteristics

- Enclosure designed to protect computer equipment installed in industrial environments.
- Degree of protection IP55, or IP40 with hinged keyboard.
- Available in two heights: 1600 and 1800 mm.

Composition

- Structure: top and bottom frame and vertical uprights.
- Partial front doors opening to the right, made from steel painted with epoxypolyester resin, textured RAL 7035 grey.
- Models:
- Partial door for PC screen, 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.
- Plain rear door, made from steel painted with epoxy-polyester resin, textured
- RAL 7035 grey. Reversible opening direction (right or left). Locking system with flat escutcheon, made from polyamide 6 with 30% fibreglass, RAL 0005 block with 5 em double her incert for the plein reor door and amall flat
- RAL 9005 black, with 5-mm double-bar insert for the plain rear door, and small flat escutcheon with 3-mm double-bar insert for the partial front doors.
- Roof and side panels fixed from the inside, made from steel painted with epoxypolyester resin, textured RAL 7035 grey.
- Cable-gland plate with 1 entry.

Certifications

- BV, DNV, UL*, CUL.
- *1, 12, 12K.

Spacial SF PC rack dimensions (mm)		No. of	Poforonco	
Height (A)	Width (B)	Depth (C)	compartments	Kelefence
1600	000	600	3	NSYSF16660PC
1000		800	3	NSYSF16680PC
1900	600	4	NSYSF18660PC	
1000		800	4	NSYSF18680PC





Detail of CPU and keyboard compartment with tray.

>Advantage:

Security. The roof and panels, fixed from the inside, prevent access by unauthorised personnel.

3

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PC rack

Locks





Detail of 5-mm DB lock on rear door.

3



PC rack with a height of 1800 mm.

PC rack with a height of 1600 mm.



3



PC rack Composition accessories

Plinth

- See composition accessories: floor, page 3/36.
- Model heights: 100 and 200 mm.

Front plinth

- Supply:
 - Height 100 mm: four corners, two panels (front and rear), four corner covers and fixing elements.
 - Height 200 mm: four corners, four panels with a height of 100 mm (two front and two rear), four corner covers and fixing elements.

Plinth side panels

Supply:

Height 100 mm: two side panels, four corner covers and fixing elements.
 Height 200 mm: four side panels with a height of 100 mm (two for each side), four corner covers and fixing elements.

Spacial SF Front Dimensions (mm) referen		Front plinth reference (mm)		Plinth si referend	de panel ce (mm)
Width	Depth	100	200	100	200
600	600	NOVODECION	NOVODECOM	NSYSPS6100	NSYSPS6200
600	800	NST 5PF0100	N515PF0200	NSYSPS8100	NSYSPS8200



Locks for partial doors

- Locks to replace the 3-mm double-bar lock supplied with the partial doors.
- Models:
- Transformation of lock with shape 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 shape 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, bolt, safety washer
 - Lock with 2233X key for partial doors: metal body, insert, bolt, safety washer and key.
- Lock with 2233X key, exclusive for hinged keyboard door: metal body, insert, special bolt, safety washer and key.

Description	Reference
One lock with 6.5-mm triangular insert for partial	NSYMI TE
and hinged door	NGTWEID
One lock with 6-mm square insert for partial and	NCVMI CC
hinged door	N3TML30
One lock with 2233X key for partial door	NSYML23
One lock with 2233X key for hinged keyboard	
door	NSTMECD23

PC rack Composition accessories



Fixed tray

- Tray with option for direct fixing to the structure if the tray is the same size as the enclosure and on cross rails if it is smaller.

- Depth adjustable with a pitch of 25 mm in this case.
 Provided with cut-outs for improving air circulation inside.
 Material: steel painted with epoxy-polyester resin, RAL 7035 grey.
 Acceptable load: 150 kg, evenly distributed.
 Traviteith: 20 area

Supply: one fixed tray and fixing elements.

• Tray height: 30 mm.

Tray installed on the structure



Spacial SF dimensions (mm)		Tray dimensions	Reference	
Width	Depth	(mm)	Reference	
	400	482 imes290 imes30	NSYFXT6040	
600	500	482 imes390 imes30	NSYFXT6050	
	600	482 imes 490 imes 30	NSYFXT6060	
800	400	682 imes290 imes30	NSYFXT8040	
	500	682 imes390 imes30	NSYFXT8050	
	600	682 imes490 imes30	NSYFXT8060	

3

Tray installed on cross rails

>Advantage:

Withstands loads of up to 150 kg.



Telescopic rails fixed to the structure



Telescopic rails fixed to cross rails

Telescopic rails

- The telescopic rails can be installed directly on the structure of the enclosure or
- on cross rails. • The installation of a telescopic tray consists of the following:
- 1 fixed tray.
- 2 telescopic rails (fixed directly to the structure). • End-of-travel stop of the rails in open and closed position.
- Material: zinc-coated steel.
- Acceptable load: 50 kg, evenly distributed.

Supply: two telescopic rails and fixing elements.

Spacial SF Dimensions (mm)	Reference
Depth	
400	NSYTTG40
500	NSYTTG50
600	NSYTTG60

PC rack Mounting accessories

Tray cross rails

• Cross rails that allow the installation of fixed trays and telescopic rails. Quickfixing and universal cross rails, see page 7/36.

Spacial SF Dimensions (mm)	Universal cross rail reference	Quick cross rail reference
Depth	40 mm (1 row)	40 mm (1 row)
400	NSYSUCR4040	NSYSQCR4040
500	NSYSUCR4050	NSYSQCR4050
600	NSYSUCR4060	NSYSQCR4060
800	NSYSUCR4080	NSYSQCR4080



Handle for telescopic trays

- Handle designed for easy extraction of the sliding trays.Material: polyamide 6 (black).









Printer support

- Support for placing an A4 printer, with area reserved for paper.
- Fixed directly to the structure of the enclosure, with a depth of 600 mm. For a depth of 800 mm, it can be installed with 40-mm (1 row) universal or quick-fixing cross rails, see page 7/38.
 Material: steel painted RAL 7035 grey.

Supply: one printer support and fixing elements. 1









Suitable metal enclosure for electronic applications

Enclosure prepared for the installation of standard 19" racks in professional telecommunication, voice, data and electronic facilities, by means of 19" fixed and swing racks, see page 3/105.

Composition

- Structure: top and bottom frame and vertical uprights.
- Transparent front door, made from sheet steel, painted with epoxy-polyester resin,
- Plain rear door, made from sheet steel, painted with epoxy-polyester resin, textured RAL 7035 grey.
- Standard locking system with handle and 5-mm double-bar insert.
- Removable roof.
- External fixing side panels, made from sheet steel, painted with epoxy-polyester resin, textured RAL 7035 grey, double folded to increase their rigidity with captive fixing screws that reduce installation time.
- In enclosures with widths of 600 and 800 mm, it is possible to install fixed or swing racks, to be ordered separately.

Certifications

- BV, DNV, UL*, CUL.
- *1, 12, 12K.

Spacial SF electronic application enclosure dimensions (mm)			Poforonco
Height (A)	Width (B)	Depth (C)	Reference
	600	600	NSYSF12660E
1200	000	800	NSYSF12680E
1200	800	600	NSYSF12860E
	000	800	NSYSF12880E
	600	600	NSYSF20660E
	000	800	NSYSF20680E
2000		600	NSYSF20860E
	800	800	NSYSF20880E
		1000	NSYSF208100E
		600	NSYSF22660E
	600	800	NSYSF22680E
2200		1000	NSYSF226100E
2200		600	NSYSF22860E
	800	800	NSYSF22880E
		1000	NSYSF228100E



Electronic application

Composition accessories











Plinth

- See composition accessories: floor, page 3/36.
- Model heights: 100 and 200 mm.

Front plinth

- Supply: 1
 - Height 100 mm: four corners, two panels (front and rear), four corner covers and fixing elements.
 - Height 200 mm: four corners, four panels (two front and two rear), four corner covers and fixing elements.

Plinth side panels

- Supply:
- Height 100 mm: two side panels, four corner covers and fixing elements. - Height 200 mm: four side panels (height of 100 mm, two for each side), four corner covers and fixing elements.

Spac Dimens	Spacial SF Front ensions (mm) referenc		Front plinth reference (mm)		el plinth ce (mm)
Width	Depth	100 200		100	200
	600	NSYSPF6100	NSYSPF6100 NSYSPF6200	NSYSPS6100	NSYSPS6200
600	800			NSYSPS8100	NSYSPS8200
	1000			NSYSPS10100	NSYSPF10200
	600		NSYSPF8100 NSYSPF8200	NSYSPS6100	NSYSPS6200
800	800	NSYSPF8100		NSYSPS8100	NSYSPS8200
	1000			NSYSPS10100	NSYSPF10200

Ventilated front plinth

Supply:

G - Height 100 mm: four corners, two ventilated panels (front and rear), four corner covers and fixing elements.

Ventilated plinth side panels

Supply: - Height 100 mm: two ventilated side panels, four corner covers and fixing $\left(\right)$ elements.

Spacial SF dimensions (mm)		Ventilated front plinth reference	Ventilated plinth side panel reference
Width	Depth	100 mm	
000	600	NSYSPFV6100	NSYSPV6100
600	800		NSYSPV8100
000	600	NSYSPFV8100	NSYSPV6100
800	800		NSYSPV8100

Electronic application

Composition accessories

Cable-gland plates

- See composition accessories: cable gland, page 3/49.
- Models: plain plates, with one entry and two entries.

Plain cable-gland plate

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1J Supply: One plain plate and fixing elements.

Cable-gland plate with 1 entry

Supply: one plate with one entry, self-extinguishing polyurethane adhesive [A gasket with cross-section of 15×25 mm, which guarantees good sealing, and fixing elements.

Cable-gland plate with 2 entries

Supply: one plate with two entries, self-extinguishing polyurethane adhesive gasket with cross-section of 15 \times 25 mm, which guarantees good sealing, and fixing elements.

3





Ventilated cable-gland plates

- Plates for cable entry from the bottom of the enclosure.
- Material: galvanised steel.
- Thickness: 1.5 mm
- Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip.
- Each plate has a hole with an 8-mm diameter, covered with a plug, for cases in which earthing needs to be performed by an earthing cable or braid (elements not supplied).

Supply: one ventilated plate with one entry, self-extinguishing polyurethane n. adhesive gasket with cross-section of 15×25 mm, and fixing elements.

Nominal dimensions (mm)		Deference
Width	Depth	Reference
	600	NSYECV661
600 600 800	800	NSYECV681
	1000	NSYECV6101
	600	NSYECV861
800	800	NSYECV881
	1000	NSYECV8101



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Composition accessories



Cable-gland support for CaSys plates

- Support for cable entry from the bottom of the enclosure.
 Allows the installation of CaSys cable-gland accessories.
 Material: galvanised steel.

- Thicknesses: 1.5 mm.
 Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip.
- The CaSys plates are fixed by C-shaped clips to the enclosures with a width of 600 mm, and by screws directly to the support in the enclosures with a width of 800 mm.

\square

- Supply: Enclosure width 600 mm: two plates and fixing elements. Enclosure width 800 mm: one support and fixing elements.

Nominal dimensions (mm)		Deference
Width	Depth	Reference
	600	NSYCECS66
600	800	NSYCECS68
	1000	NSYCECS610
	600	NSYCECS86
800	800	NSYCECS88
	1000	NSYCECS810

Enclosure width 600 mm



Enclosure width 800 mm



Electronic application

Composition accessories



Roof for CaSys plates

- Roof prepared for installing CaSys roof accessories.
 Suitable for enclosures with widths of 600 and 800 mm.
- Material: steel painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one roof with central cut-out and side pre-cuts (width 800 mm). הו









Plain top roof plate

- Removable plate made from folded sheet steel.
- Option of installing roof elevators for aeration, ref. NSYEX206, and cable Material: steel painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one plain top roof plate and fixing elements.







Schneider

Electronic application

Composition accessories



Cable-gland plate with brush

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Material: galvanised steel.





Self-ventilated cable-gland plate

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Material: galvanised steel.







Ventilation plate with cut-outs and with or without fans, 120 mm

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Supplied with 2 or 3 fans, each of which 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.
- Sound level: 34 dB (A).

Supply: one cable-gland plate with or without fans, 2-m power cord (version with fans) and fixing elements.

Description	Reference
No fans, 3 positions	NSYECVT3440
With 3 fans	NSYECVT3V440
No fans, 2 positions	NSYECVT2440
With 2 fans	NSYECVT2V440



Cable-gland filter

• To be mounted on the cable-gland plate with or without fan or on the self-ventilated cable-gland plate.

Supply: one mounting support, colour RAL-9011, and filter.



Electronic application

Composition accessories



Spare cable-gland filter

Spare filter.
 Supply: five units.
 Reference
 NSYCEFILS

Examples of possible combinations of cable-gland plates for the roof

Spacial SF dimensions (mm)		Combination 1	Combination 2
Width	Depth		Combination 2
	600	and the second se	
600/800	800		
	1000		

Electronic application

Composition accessories



Ventilated roof

- Roof for providing natural ventilation for the enclosure, with IP30 protection.

- Material: steel.
 Height: an extra 63 mm in relation to the structure.
 Finish: painted with epoxy-polyester resin, RAL 7035 grey.

Supply: one ventilated roof and fixing elements. [7

Nominal dimensions (mm)		Deference	
Width (B)	Depth (C)	Reference	
000	600	NSYSVR606	
600	800	NSYSVR608	
200	600	NSYSVR806	
800	800	NSYSVR808	



Spacial SF - SM

Electronic application

Composition accessories

Ventilated door for 19" racks

- Door designed to achieve natural ventilation of the enclosure.
- Installation on enclosures with a width of 800 mm, equipped with centred fixed or swing racks.
- Opening of 120°.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.
- Standard locking system with handle and 5-mm double-bar insert.

Supply: one ventilated door for racks. เก

Nominal dimensions (mm)		Double ventilated
Width	door reference	door reference
600	NSYPCVD126	NSYPCV2D126
800	NSYPCVD128	NSYPCV2D128
800	NSYPCVD148	NSYPCV2D148
800	NSYPCVD168	NSYPCV2D168
800	NSYPCVD188	NSYPCV2D188
600	NSYPCVD206	NSYPCV2D206
800	NSYPCVD208	NSYPCV2D208
600	NSYPCVD226	NSYPCV2D226
800	NSYPCVD228	NSYPCV2D228
	misions (mm) Width 600 800 800 800 600 800 600 800 600 800	Single ventilated door reference Width Single ventilated door reference 600 NSYPCVD126 800 NSYPCVD128 800 NSYPCVD148 800 NSYPCVD168 800 NSYPCVD188 600 NSYPCVD206 800 NSYPCVD208 600 NSYPCVD228

Transparent door for off-centre racks

- Transparent door for installation in enclosures with off-centre 19" racks.
- Shows only the devices mounted on the 19" rack.
- Opening of 120°.
- Lock with handle and 5-mm double-bar insert, four locking points.
- 2 points, heights of 1200 and 1400 mm.
- 4 points, heights of 1600 to 2200 mm.
- Door stop profile.
 Opening to the right or left.
- Width of the glass 485 mm, off-centre by 77 mm.
- Material: steel and Securit® glass.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey, textured.

Supply: one off-centre transparent door.

Nominal dimensions (mm)		Deferrer
Height	Width	Reference
1200	800	NSYED128T
1400		NSYED148T
1600		NSYED168T
1800		NSYED188T
2000		NSYED208T
2200		NSYED228T





Spacial SF - SM

Electronic application

Mounting accessories



19" fixed rack

- Rack designed for installation in enclosures with a width of 600 mm.
- Spacial SF: Direct fixing on the structure of the enclosures.
 For installation on enclosures with a width of 800 mm, use the 19" fixed-rack
- 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.
- Spacial SM: fixing on the top/bottom adjustment rails.
- Adjustable depth with a pitch of 25 mm.
- Maximum load: 400 kg.

Material: zinc-coated steel.

Supply: two uprights and fixing elements.

Nominal dimensions (mm)	No. of units (H)	Peference
Height		Kelefende
1200	24	NSYRCK24
1400	29	NSYRCK29
1600	33	NSYRCK33
1800	38	NSYRCK38
2000	42	NSYRCK42
2200	47	NSYRCK47
LLOO		

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B-B

Electronic application

Mounting accessories



Support brackets for 19" fixed rack with a width of 800 mm

- 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.
 Maximum load: 400 kg.
- Material: zinc-coated steel.

Supply: four support brackets and fixing elements. 1

Nominal dimensions (mm) Depth	Reference
600	NSYRCKS6
800	NSYRCKS8



Side plates of the centred fixed rack for a width of 800 mm

- Side plates for coupling to the fixed rack in enclosures with a width of 800 mm.
- Direct installation on the rack by screws.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: two side plates and fixing elements. 1

Nominal dimensions (mm)		Deference
Height	Width	
1200	-	NSYRC12
1400		NSYRC14
1600	800	NSYRC16
1800	800	NSYRC18
2000		NSYRC20
2200		NSYRC22



Central fixing kit

- 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 7/39.
- Material: zinc-coated steel.

Supply: two supports and fixing elements. 6



Spacial SF - SM



Electronic application

Mounting accessories

Partial 19" fixed rack

- Rack designed for coupling in enclosures with a width of 600 mm.
- Installation options (Spacial SF):
- Installation at the top front of the enclosure, no cross rails needed (image 1).
- Depth adjustment of the cross rails: two cross rails need to be installed, see page 7/36.
- For installation at any other height, four depth cross rails are required (image 2).
 Installation options (Spacial SM):
- At the top of the enclosure (image 1): install two depth cross rails, see cross rails on page 7/31.
- At another height (image 2): install four cross rails for depthwise installation.
- Depthwise installation of the cross rails. Installation of the vertical adaptation profile and the 40-mm universal cross rail (1 row) in vertical position, in the position closest to the back.
- Adjustable depth with a pitch of 25 mm.
- Maximum load: 2 kg/U.
- Material: zinc-coated steel.



Supply: two uprights and fixing elements. าก

Rack height No. of units Reference (mm) 200 4 NSYRCKP4 400 NSYRCKP8 8 600 NSYRCKP12 12 800 17 NSYRCKP17 1000 21 NSYRCKP21 NSYRCKP26 1200 26



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Electronic application

Mounting accessories





>Advantage:

It is possible to adjust the height with the rack installed and loaded.

19" swing racks for 800 mm enclosures

- Racks prepared for direct coupling to enclosures with a width of 800 mm.
- Spacial SF: fixing to the structure of the enclosure.
- Spacial SM: fixing on the top/bottom adjustment rails.
 Can be moved depthwise with a pitch of 25 mm.
- Maximum load: 3 kg/U.
- Maximum opening: 120° (possibility of opening to 180° using 180° hinges).
 Reversible opening direction: left/right.
- Handle opening system with ball lock.
 Maximum equipment installation depth:
- Off-centre 19" swing rack:
- 120° = 470 mm. 180° = 425 mm.
- Centred 19" swing rack:
- 120° = 390 mm.
- 180° = 345 mm.
- Spacial SF: multiple installation options in enclosures with a width of more than 800 mm (1000, 1200 or 1600 mm), by using universal or quick-fixing cross rails, see page 7/36.
- Spacial SM: option for installing the racks in enclosures with a width of 1600 mm by using universal or quick cross rails, see page 7/36.
- Components:
- Zinc-coated steel central structure.
- Side plate made from steel painted with epoxy-polyester resin, textured RAL 7035 The cross rail of the double-folded rack increases the installation options.
- Rear fixing uses self-tapping M6 screws, and side fixing is possible by means of quick-installation accessories (image 1). • Lateral adjustment is possible with the rack installed and loaded.

Supply:

- n. Off-centre 19" swing rack: hinged rack, 800-mm swing rack supports, side lid
 - with ball-lock handle and fixing elements. Centred 19" swing rack: swing rack, 800-mm swing rack supports, side plates with ball-lock handle and fixing elements.

Nominal dim Height (A)	ensions (mm) Width (B)	No. of units	Off-centre 19" hinged rack reference	Centred 19" hinged rack reference
1400		27	NSYRSW27	NSYRSWC27
1600		31	NSYRSW31	NSYRSWC31
1800	800	36	NSYRSW36	NSYRSWC36
2000	1	40	NSYRSW40	NSYRSWC40
2200		45	NSYRSW45	NSYRSWC45

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Electronic application

Mounting accessories



Spacial SF - SM

Electronic application

Mounting accessories



19" swing rack with no panels

- To be coupled to enclosures with widths of 600 and 800 mm.
- In both cases, it is required the use of 19" swing rack support, ref. NSYRSW6 or NSYRSW8, see page 3/111.
- Spacial SF: fixing to the enclosure structure at any height using supports for 19" swing racks.
- Spacial SM: fixing to the enclosure on the top/bottom adjustment rails using supports for 19" swing racks.
- Can be moved depthwise with a pitch of 25 mm.
- Maximum load: 3 kg/U.
- Maximum opening: 120°
- Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm.
- Spacial SF: multiple installation options in enclosures with a width of more than 800 mm (1000, 1200 and 1600 mm), by using universal or quick cross rails, see page 7/36, in addition to the 19" swing rack support.
- Spacial SM: option for installing two racks in enclosures with widths of 1200 and 1600 mm.
- For enclosures with a width of 1200 mm, top/bottom adjustment rails are necessary, in addition to the 19" swing rack support.
- Material: zinc-coated steel.
- Reversible opening direction: left/right.
- Locking system, top and bottom, with 5-mm double-bar key.

Supply: one 19" swing rack with no panels.

Nominal dimensions (mm)		No of unito	Defermine
Height (A)	Width (B)	No. of units	Reference
1400	600/800	27	NSYRSW627
1600		31	NSYRSW631
1800		36	NSYRSW636
2000		40	NSYRSW640
2200		45	NSYRSW645



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Spacial SF - SM

Electronic application

Mounting accessories





19" swing rack support

- Support for coupling the 19" swing rack in enclosures with widths of 600 and Support for coupling the 19 swing rack in enclosures with widths of 600 an 800 mm in off-centre position.
 Rack installation in centred and off-centre position.
 Adjustable depth with a pitch of 25 mm.
 Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: 2 supports and fixing elements.

Nominal dimensions (mm) Width	Reference
600	NSYRSWS6
800	NSYRSWS8



Electronic application

Mounting accessories

Examples of alternatives for 19" swing racks



19" swing rack in enclosure with a width of 600 mm.



Off-centre 19" swing rack in enclosure with a width of 800 mm.



Centred 19" swing rack in enclosure with a width of more than 800 mm.

Spacial SF - SM



Electronic application

Mounting accessories

Partial 19" swing rack

- 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 centred or offcentre.
- Spacial SF: Fixing to the highest position of the enclosure by means of supports for partial 19" swing rack.
- Spacial SM: Fixing to the highest position of the enclosure by means of supports for partial 19" swing rack and vertical adaptation profiles.
- For height or depth adjustment, with a pitch of 25 mm, it is necessary to use two 65-mm (2 rows) universal cross rails and a 19" multiple bracket, ref. NSYMBR19; and for moving depthwise and up or down, four cross rails are required. See universal cross rails, page 7/36.
- Spacial SM: to install the depthwise cross rails, the vertical adaptation profile and two 40-mm universal cross rails (1 row) are required, installed vertically in the back of the enclosure.
- Maximum load: 2 kg/u.
- Maximum opening: 120°.
- Material: zinc-coated steel.
- Reversible opening direction: left/right.
- Locking system, top and bottom, with 5-mm double-bar key.
- Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm.

Supply: one partial 19" swing rack.

Rack height	Nominal dimensions (mm)	No. of units (H)	Reference
(1111)	Width (B)	(17)	
355		6	NSYRSWP6
468		9	NSYRSWP9
601	000/000	12	NSYRSWP12
735	600/800	15	NSYRSWP15
868		18	NSYRSWP18
1002*		21	NSYRSWP21

*Optional installation in enclosures with height of 1200 mm.



Partial 19" swing rack for enclosures with a width of 600 mm.



Schneider

Electronic application

Mounting accessories

Partial 19" swing rack support

- Supports for coupling the partial swing rack to enclosures with widths of 600 and 800 mm.
- Installation of the rack in centred or off-centre position, for enclosures with a width Spacial SF: direct fixing to the structure.
 Spacial SM: fixing to the enclosure by means of the vertical adaptation profile,
- page 7/34.
- 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.
- Material: zinc-coated steel.



Supply: two supports and fixing elements.

Nominal dimensions (mm) Width	Reference
600	NSYRSWSP6
800	NSYRSWSP8



19" multiple bracket

- 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: four brackets and fixing elements.



Spacial SF - SM

Electronic application

Mounting accessories



Spacial SF - SM



Mounting accessories

Rear cable-guide support

- 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: two cable-guide supports, crossbar and fixing elements.

Service depth (mm)	Reference
150	NSYRCSUP15
250	NSYRCSUP25

Fixing of cable ducts on 19" racks

- 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.





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Electronic application

Door accessories



120° mechanical door stop

- Door stop for installation on the swing racks.
- Direct fixing to the rack support and the 19" rack.
 Maximum opening: 120°.











180° pneumatic door stop

- Door stop for installation on the swing racks installed with 180° hinges.
 Spacial SF: fixing to the base of the structure and to the rack.
- Spacial SM: direct fixing to the rack support and to the 19" rack.
- Maximum opening: 180°.

Supply: one pneumatic door stop and fixing elements.





Electronic application

Door accessories



Flat escutcheon for swing 19" rack

• Flat escutcheon with 5-mm double-bar insert lock, for installation on swing 19" racks.

Supply: one flat escutcheon, 5-mm double-bar insert and fixing elements. ก



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Switch for swing 19" rack

- Switch for direct fixing on the bottom or top support of the swing rack.
- M20 connection. • Open + closed contact, 10 A/500 V.



Supply: one 19" rack switch and fixing elements.





Fixing elements for 19"

- Elements required for fixing switchgear on 19" racks, made up of:
- Screws. - Washers.
- Nuts.



Supply: 50 units of each.

Reference by unit. Order by multiples of 50 (50, 100, 150...).

Thread type	Reference
M5	NSYGFR95M55
M6	NSYGFR95M65





Power distribution

Power distribution accessories

Top busbar chamber

- Chamber which protects and supports the sets of horizontal bars.
- Enables new switchgear by tapping and isolates the sets of bars from the rest of Enables new switchgear by tapping and isolates the sets of bars from the equipment.
 It is only installed at the top of the enclosure.
 Degree of protection: IP55.
 Material: steel.
 Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

- Supply: One structure of the busbar chamber as a kit.
 - Two front panels.
 - Four eyebolts.
 - One sealing gasket.

Nominal dimensions (mm)			Deferrer
Height (A)	Width (B)	Depth (C)	Reference
	200	500	NSYTBC335
	300	600	NSYTBC336
		500	NSYTBC345
	400	600	NSYTBC346
		800	NSYTBC348
		500	NSYTBC365
	600	600	NSYTBC366
		800	NSYTBC368
300		500	NSYTBC385
	800	600	NSYTBC386
		800	NSYTBC388
		500	NSYTBC3105
	1000	600	NSYTBC3106
		800	NSYTBC3108
		500	NSYTBC3125
	1200	600	NSYTBC3126
		800	NSYTBC3128









Power distribution

Power distribution accessories

Side panels for the busbar chamber

- Set of two side panels for coupling with the busbar chamber.
- Captive screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: two side panels and fixing elements.

Nominal dimensions (mm)		Deference
Height	Depth	Reference
	500	NSYSPBC35
300	600	NSYSPBC36
	800	NSYSPBC38

Side busbar chamber

- Protects 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: painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply:

- One structure of the busbar chamber.
 - One roof.
 - One rear panel.
 - One door with handle (5-mm DB lock).

N	ominal dimensions (m	n)	Beference	
Height	Width	Depth	Reference	
		400	NSYSF18440	
1800	400	500	NSYSF18450	
		600	NSYSF18460	
300	200	500	NSYSF20350	
	300	600	NSYSF20360	
2000		400	NSYSF20440	
2000	400	500	NSYSF20450	
400	400	600	NSYSF20460	
		800	NSYSF20480	
2200	400	600	NSYSF22460	









Specific finishes and colours, please contact us.

Spacial SF for Prisma Plus P system

The Spacial SF range includes specific enclosure models for installing the Prisma Plus P system: functional units and vertical and horizontal busbars. The panels are subject to type tests according to standard IEC 61439-2. Partition types: forms 2 and 3 thanks to the components of the Prisma Plus P system.

RAL 7035 grey, IP 55, IK 10.

Specific finishes and colours are available on demand using our customisation service.

The offer consists of:

- Steel suitable enclosures, height 2000 mm.
- Width 700 mm for installing Prisma P functional units and width 300 mm for installing cable ducting or vertical busbars.
- Depths 500 and 600 mm for panels up to 1600 A.
- Depth 800 mm for panels up to 3200 A or connection of devices by the rear.

To create mixed power distribution and automation panels, the Spacial SF enclosures for Prisma Plus P system can be coupled with standard Spacial SF enclosures and therefore use the universal mounting accessories.

Note: The standard Spacial SF 400mm width can also be used for cable ducting.

Electrical characteristics

The installation of devices with the Prisma Plus P system for Spacial SF allows the installation of low-voltage equipment compliant with standards IEC 50298, IEC 62262 and IEC 61439-2 and having the following characteristics:

- Rated insulation voltage of the main busbar: 1000 V.
- Rated operational current: In 3200 A.
- Rated peak withstand current: Ipk: 187 kA.
- Rated short-time withstand current: Icw 85 kA eff/1 s.
- Frequency: 50/60 Hz.

Mechanical characteristics

- Galvanised-steel framework.
- Sheet-steel panels, painted with epoxy-polyester resin, textured finish, RAL 7035 grey.
- · The panels can be removed.
- The frameworks can be coupled side-to-side or back-to-back.
- IP 55.
- IK 10 (IK 08 for glazed doors).



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W = 700 mm.

Enclosure depth 500

Enclosure depth 600 or 800

Spacial SF for Prisma Plus P system

Composition accessories

Technical characteristics

These Spacial SF enclosures have been designed specially for installing the Prisma Plus P system: functional units and busbars. Height: 2000 mm. IP 55 and IK 10 enclosures for the plain-door version or IK 08 for the glazed-door version.

The enclosures are available with 3 depths:

• 500 and 600 mm for panels up to 1600 A;

• 800 mm for panels up to 3200 A or connection by the rear.

The enclosures with width 700 mm support direct installation of Prisma Plus P system functional in white - RAL 9001.

The enclosures with width 300 mm can be used as cable ducts or for the installation of a flat busbar.

The bar compartment can be positioned on the right or on the left. Bar compartments can be coupled side-to-side and back-to-back.

The enclosures with width 700 mm are compatible with all existing Prisma Plus P system functional units, except prefabricated connections, see Prisma Plus catalogue.

The enclosures with width 700 mm consist of:

- · 2 frames (top and bottom with screwed roof);
- · 4 vertical uprights;
- 4 adapter uprights (enclosure depth 500);
- 2 adapter uprights and 2 intermediate uprights (enclosure depths 600 and 800);
- Screwed rear panel.
- · Plain or glazed door.

And can be coupled side-to-side and back-to-back.

- The enclosures with width 300 mm consist of:
- · 2 frames (top and bottom with screwed roof);
- 4 vertical uprights;
- · Screwed rear panel;
- Plain door.

The Linergy busbar can only be installed in lateral position with depth 500 mm. Add the set of 2 Prisma Plus P system functional uprights **NSYSFPA**.

The enclosures are supplied assembled, without lateral panels.

All Spacial SF enclosures for Prisma Plus P system can be coupled with Spacial SF enclosures with the same depth.

Width Set of 2 Height Depth 300 700 700 lateral panel Plain door Plain doo Glazed doo 500 NSYSF20350 NSYSFP20750 NSYSFP20750T NSY2SP205 2000 NSYSE20360 NSYSEP20760 NSYSEP20760T NSY2SP206 600 NSYSF20380 NSYSFP20780 NSYSFP20780T NSY2SP208 800

Use the earth cables to guarantee the earth connection of the side panels.

Spacial SF for Prisma Plus P system Accessories



Prisma Plus hinged support frame

Hinged support frame for cover plates with width 700 mm. • Reversible, opening to right/left. • Colour: white - RAL 9001.

- Locking at 2 points by 1/4 turn nuts.
- Installed on enclosures with width 700 mm.
- Mandatory for installing Prisma Plus Functional units.

Reference 08566

Plinths

The plinths are available in 2 heights: 100 and 200 mm. They can be combined to obtain heights of 300 mm, 400 mm or more.

The complete plinth comprises two assemblies:

- · The front and rear panels, with the 4 corners;
- · 2 side panels.



		Plinth H 100 mm		Plinth H 200 mm		
Width	Depth	Front/rear panels	Side panels	Front/rear panels	Side panels	
	500		NSYSPS5100		NSYSPS5200	
300	600	NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200	
	800		NSYSPS8100		NSYSPS8200	
	500		NSYSPS5100		NSYSPS5200	
700	600	NSYSPF7100	NSYSPS6100	NSYSPF7200	NSYSPS6200	
	800		NSYSPS8100		NSYSPS8200	



Cable-gland plate

Galvanised-steel plates for cable entry by the bottom of the enclosures,

thickness 1.5 mm.

Fixing by C-shaped clips fixed by screws ensuring electrical continuity. Plate with 1 entry: self-extinguishing polyurethane adhesive seal, rectangular section of 15 \times 25 mm and fixing elements.

Width	Depth	Reference
	500	NSYEC351
300	600	NSYEC361
	800	NSYEC381
	500	NSYEC751
700	600	NSYEC761
	800	NSYEC781



Earth cables

- · Essential to guarantee the earthing of the side panels, roof and door.
- Material: brass and copper alloy terminal, green and yellow PVC insulating sheath. · Composition: 10 earth cables, to be ordered by multiples of 10 (nuts and washers not included).

Length (mm)	Cut (mm²)	Terminal ${\mathscr O}$ (mm)	Reference
160	6	8.3	NSYEL166D8
350	25	8.3	NSYEL3525D8







Spacial SF for Prisma Plus P system

Accessories

Side panels

External fixing

- Set of 2 side panels fixed from the outside of the enclosure.
- · Captive screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.
- Supply: 2 side panels fixed from the outside and fixing elements.

Nominal dim	ensions (mm)	Poforonco	
Height	Depth	Reference	
2000	500	NSY2SP205	
	600	NSY2SP206	
	800	NSY2SP208	

3



Eyebolts

Set of 4 moulded galvanised-steel M12 eyebolts for direct screwing in the framework of the enclosure, in line with the uprights.





Lifting brackets

Reference NSYSFELB

Reference NSYSFEB

Set of 4 zinc-coated steel transport brackets for fixing to the framework, spanning two coupled enclosures, in line with the uprights.







Coupling kit

For side to side or back to back* coupling of 2 enclosures:

- Fixing from the inside of the enclosure.
- Protection degree: IP 55.
- Material:
- Flat links: zinc-coated steel.
- Sealing gasket: EPDM.



* Back to back associations must be shipped individually.



Spacial SF for Prisma Plus P system

Horizontal busbars up to 1600 A

Busbar configuration

The bars are supported by insulating supports fixed to the framework.

The tables on this page show:

- The number and section of the bars to be used according to the permissible current level of the busbar;
- The number of bar supports to be installed in each type of framework, according to:
- The section of the bars

The rated short-time withstand current lcw.
 For further information on configuring the busbar,

see page 3/128.

The busbar takes up 3 Prisma modules of 50 mm each.



Busbar selection



Fixed support and mobile support.





Connection.

Number and section of the copper bars

Permissible current level (A) IP55	- No. bars/phase
750	1 bar, 60 $ imes$ 5
900	1 bar, 80 $ imes$ 5
1250	2 bars, 60 $ imes$ 5
1600	2 bars, 80 $ imes$ 5

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Number of supports

Framework width	Bar section (mm)	No. of Icw supports (kA eff/1 s)				
(mm)		≤ 15	≤ 25	≤ 30	≤ 40	≤ 50
	1 bar, 60 $ imes$ 5					
700	1 bar, 80 $ imes$ 5					
700	2 bars, 60 $ imes$ 5		2		3	
	2 bars, 80 $ imes$ 5					
300	All sections		1			2

Flat bars with width 2000 mm

Type of bar	Reference
Plain copper bar, 60 $ imes$ 5	04536
Plain copper bar, 80 $ imes$ 5	04538

Bar supports

2 compulsory fixed supports for frameworks with width 700 and 1 compulsory support for frameworks with width 300. If more supports are required, complete them using mobile supports.

Busbar centre-to-	Enclosure W700 Depth 500	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800
centre distance (mm)	75	75	75	75
Fixed support for horizontal bars	04664	NSYBHS500	NSYBHS600	NSYBHS800
Mobile support (additional)	04662	04662	04662	04662

Connections

Conne	ections	Reference	
1 connection for bars	Width 60 mm	04640	
	Width 80 mm	04641	
Note: When installed at the bottom of the enclosure, the busbar must be partitioned.			



Spacial SF for Prisma Plus P system

Horizontal busbars up to 3200 A

Busbar configuration

The bars are supported by insulating supports fixed to the framework.

- The tables on this page show:
- The number and section of the bars to be used according to the permissible current level of in the busbar;
- The number of bar supports to be installed in each type of framework, according to:
- The section of the bars.
- The rated short-time withstand current Icw.
- For further information on configuring the busbar, see page **3/128**.

The busbar takes up 3 Prisma modules of 50 mm each.



Number and section of the copper bars

Permissible current level (A)	No. bars/phase	
IP55		
1080	1 bar, 50 $ imes$ 10	
1250	1 bar, 60 $ imes$ 10	
1600	1 bar, 80 $ imes$ 10	
1850	2 bars, 50 $ imes$ 10	
2000	2 bars, 60 $ imes$ 10	
2500	2 bars, 80 $ imes$ 10	
2900	2 bars, 100 $ imes$ 10	

Note: The busbar permissible current level values are provided for an ambient temperature of 35 $^\circ\text{C}$ around the panel.

Number of supports (centre-to-centre distance: 75 mm)

Framework width	Bar section	No. of Icw supports (kA eff/1 s)				
(mm)	(mm)	$ \leq 25 \leq 30 \leq 40$	\leq 50 \leq	60 ≤ 65	≤ 75	≤ 85
	1 bar, 50 $ imes$ 10					
	1 bar, 60 $ imes$ 10				4	
700	1 bar, 80 $ imes$ 10		3		4	
	2 bars, 50 $ imes$ 10	2				
	2 bars, 60 $ imes$ 10					
	2 bars, 80 $ imes$ 10					
	2 bars, 100 $ imes$ 10					
300	All sections	1		2	2	

Number of supports (centre-to-centre distance: 115 mm)

Framework width	Bar section	No. of Icw supports (kA eff/1 s)						
(mm)	(mm)	\leq 25 \leq 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
	1 bar, 50 $ imes$ 10		3					
	1 bar, 60 $ imes$ 10					4		
700	1 bar, 80 $ imes$ 10							
	2 bars, 50 $ imes$ 10	2						
	2 bars, 60 $ imes$ 10	,60 imes10						
	2 bars, 80 × 10							
	2 bars, 100 $ imes$ 10							
300	All sections	1			2			

Spacial SF for Prisma Plus P system Horizontal busbars up to 3200 A

Busbar choice



Fixed support and mobile support.





Flat bars with width 2000 mm

Type of bar	Reference
Plain copper bar, 50 $ imes$ 10	04545
Plain copper bar, 60 $ imes$ 10	04546
Plain copper bar, 80 $ imes$ 10	04548
Plain copper bar, 100 $ imes$ 10	04550

Bar supports

 $2\ compulsory\ fixed\ supports\ for\ frameworks\ with\ width\ 700\ and\ 1\ compulsory\ fixed\ support\ for\ frameworks\ with\ width\ 300.$ If more supports are required, complete them using mobile supports.

Busbar centre-to-	Bar width	Enclosure W700	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800
centre distance (mm)		75	75	75	75
Et al a sur d'au	≪80 mm	04664	NSYBHS500	NSYBHS600	NSYBHS800
horizontal bars	>80 mm	04664 +04671	NSYBHS500 +04671	NSYBHS600 +04671	NSYBHS800 +04671
M.1.11.	≪80 mm	04662	04662	04662	04662
(additional) for bars	>80 mm	04662 +04671	04662 +04671	04662 +04671	04662 +04671

Busbar centre-to-	Bar width	Enclosure W700 Depth 800	Enclosure W300 Depth 800
centre distance (mm)		115	115
	≪80 mm	NSYBHS800L	NSYBHS800L
Fixed support for horizontal bars	>80 mm	NSYBHS800L +04671	NSYBHS800L +04671
	≪80 mm	04678	04678
Mobile support (additional) for bars	>80 mm	04678 +04671	04678 +04671



Connections

Connections		Reference
1 connection for bars	Widths 50 and 60 mm	04640
	Widths 80 and 100 mm	04641
Note: When installed at the botton	of the enclosure, the busbar must	be partitioned.

Spacial SF for Prisma Plus P system

Linergy vertical busbars up to 3200 A, depth 500 mm

Busbar configuration

The table on this page shows:

- · The reference of the aluminium profiles to be used according to the permissible current level of the busbar.
- · The number of supports to be used according to the rated short-time withstand current (Icw in kA eff/1 s). Beyond 1600 A, the busbar is doubled in two bar

compartments, side-by-side. In this case, it is compulsory to install 3

equipotential links between the busbars.

· The support is identical, regardless of the currentcarrying capacity.







horizontal bars thickness 5 mm.

3/128



thickness 10 mm



Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel. The bottom support can also be used to wedge the bars. Each reference consists of 1 rail

 2×3

 2×4

 2×5

Busbar selection

Linergy 2500 04505 × 2

Linergy 3200 04506 × 2

Linergy rail with width 1670 mm, section 32.5×42.5 mm. Choice of references: see table below.

2260

2920



Bar support and adapter upright

- · To install a Linergy busbar in a 300-mm sheath, depth 500 mm, it is necessary to add the adapter uprights.
- The Linergy bar supports are delivered with class 8.8 fixings.

Description	Reference
Adapter upright, batch of 2	NSYSFPA
Linergy bar support	04651

The busbar is installed in suitable enclosures with width 700 mm and depth 500 mm.



installed



Each rail is delivered with one stop to be on the bottom support

Connection to a horizontal busbar

It connects a horizontal busbar (thickness 5 or 10 mm) to a Linergy lateral busbar. It is delivered with fixings.

Connection (1)		Reference
to horizontal bars,	1000 A connection conductor	04634
thickness 5 mm	1600 A connection conductor	04635
to horizontal bars,	connection conductor for horizontal bar width ≤ 80 mm	04636
thickness 10 mm	connection conductor for horizontal bar width > 80 mm	04636 + 04642

(1) References 04634, 04635 and 04636 are delivered as a unit: 1 link per phase

Spacial SF for Prisma Plus P system

Linergy rear busbars up to 1600 A

Busbar configuration

The table on this page shows:

- The reference of the profiles to be used according to the permissible current level of the busbar.
- The number of supports to be used according to the rated short-time withstand current (Icw in kA eff/1 s).
- The busbar is installed in enclosures with width 700 mm, depth 500 mm.
- The support is identical, regardless of the currentcarrying capacity.



Busbar up to 1600 A (30 kA SCC and 40 kA). The bottom support can also be used to wedge the bars.

B = max. 387.5 mm A = max. 350 mm



Bar support.

04635 connection

with horizontal bars,

thickness 5 mm.



Each bar is delivered with one stop to be installed on the bottom support (vertical wedging).



04636 connection with horizontal bars, thickness 10 mm.





00





Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel. The bottom support can also be used to wedge the bars. Each reference consists of 1 rail.

Busbar selection

Linergy rail with width 1670 mm, 32.5 w 42.5-mm section. Choice of references: see table below.



Bar support

A stop for the bottom support also allows the bars to be wedged.
Delivered with class 8.8 fixings.

Denvered with class 6.6 fixings.

Bar support	Reference
for Linergy rear busbar	04652

Connection to a horizontal busbar

For connecting a horizontal busbar (thickness 5 or 10 mm) and a Linergy rear vertical busbar.

Co	Reference	
to horizontal	bars, thickness 5 mm	04635 (1)
to horizontal bars,	horizontal bars, width \leq 80 mm	04636 (1)
thickness 10 mm	horizontal bars, width > 80 mm	04636 + 04642 (1)

A part of the link must be made using insulated flexible bars.
 References 04635 and 04636 are delivered as a unit: 1 link per phase

Linergy accessories

Linergy screws (3)

Batch of 20 Linergy M8 bolts (20 screws + 20 nuts + 20 contact washers)	Reference
Width = 25 mm (to connect flexible bars and lugs)	04766
Width = 39 mm (to connect copper bars)	04767

(3) The 8.8 screws slide along the rail and immobilise at the desired location.

Flat washers

Ba	Batch of 20 M8 flat washers	
	outer diameter 20 mm	04772
steel	outer diameter 24 mm	04773
	outer diameter 28 mm	04774
brass	outer diameter 20 mm (i 25v lug connection on Linergy)	04775

Identification

Set of 12 phase identifiers	Reference
12 clip-on supports + N, L1, L2, L3, PE, PEN labels	04794

Spacial SF for Prisma Plus P system

Vertical busbars up to 1600 A Flat bars, thickness 5 mm

Busbar configuration

The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports. The bars are resting against a bottom support. The table on this page shows:

- The number and section of the bars to be used according to the permissible current level of the busbar.
- The number of bar supports to be installed in an enclosure according to the rated short-time withstand current (Icw).



Busbar with Icw 30 kA eff/1 s.

The bars are supported by 3 fixed supports (compulsory) and 2 mobile supports.

B = max. 100 mm A = max. 350 mm C = max. 87.5 mm

3



Mobile bar support 04662.



Separation required between bar coupling points to guarantee the insulation distances.

Number of copper bars and supports

Permissible current level (A) for panel	No. of bars/phase and section (mm)	No. of supports according to the rated short-time withstand currents Icw (kA eff/1 s)				
IP > 31		15	≤ 25	≤ 30	≤ 40	≤ 50
750	1 bar, 60 $ imes$ 5					
900	1 bar, 80 $ imes$ 5	~	, I	F		-
1250	2 bars, 60 $ imes$ 5	3	;	0		1
1600	2 bars, 80 $ imes$ 5					

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Busbar selection

Flat bars with width 1675 mm

Perforated copper bar	Reference
60 imes 5 mm	04516
80 × 5 mm	04518



Bar supports: fixing directly on framework of 300-mm duct

3 fixed supports are compulsory for supporting the bars. If more than 3 supports are required, use the mobile supports (additional).

Busbar centre-to- centre distance (mm)	entre-to- istance Depth 500 Enclosure W300 Depth 500 Depth 600 75 75		Enclosure W300 Depth 800 75	Enclosure W300 Depth 800 115	
Fixed support for lateral flat busbar	NSYBVS500	NSYBVS600	NSYBVS800	NSYBVS800L	
Mobile support (additional)	04662	04662	04662	04678	

Bar wedging

The bottom support allows the bars to be installed and positioned. It does not count as a bar support.

Busbar centre-to-centre	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
distance (mm)	75	75	75	115
Bottom support for lateral flat busbar	NSYAS500	NSYAS600	NSYAS800	NSYAS800L

Note: When connecting 5-mm flat bars to a horizontal busbar, references NSYAS=00 are not required.

Connection to a horizontal busbar, thickness 5 mm Direct connection (centre-to-centre distance 75 mm)

For a busbar centre-to-centre distance of 75 mm, the bars must be completely overlapped.



Busbar configuration

The table on this page shows:

withstand current (Icw).

the busbar;

The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports. The bars are resting against a bottom support.

• The number and section of the bars to be used according to the permissible current level of

• The number of bar supports to be installed in an enclosure according to the rated short-time

NSYBVS500

.04662

-NSYAS500

в

A

Α

С

Spacial SF for Prisma Plus P system

Vertical busbars up to 3200 A Flat bars, thickness 10 mm

Number of copper bars and supports

Permissible current level (A) for panel and section (No. of bars/phase and section (mm)	No. d tii	of sup me wit	ports : thstan	accore d curr	ding to ents l	o the r cw (kA	ated s \ eff/1	hort- s)
IP ≤ 31	IP > 31		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
Single busbar										
1200	1080	1 bar, 50 $ imes$ 10								
1400	1250	1 bar, 60 $ imes$ 10							0	
1800	1600	1 bar, 80 $ imes$ 10							9	
2050	1850	2 bars, 50 $ imes$ 10	3		5			7		
2300	2000	2 bars, 60 $ imes$ 10								
2820	2500	2 bars, 80 $ imes$ 10								
3200	2820	2 bars, 100 $ imes$ 10								

Note: The busbar permissible current level values are provided for an ambient temperature of 35 $^\circ\text{C}$ around the panel.

Busbar selection

Flat bars with width 1675 mm

Perforated copper bar	Reference
50 $ imes$ 10 mm	04525
60 $ imes$ 10 mm	04526
80 imes 10 mm	04528

 $25 \rightarrow 12.5$

Bar supports: fixing directly on framework of 300-mm duct

 $3\ {\rm fixed}\ {\rm supports}\ {\rm are}\ {\rm compulsory}\ {\rm for}\ {\rm supports}\ {\rm the}\ {\rm bars}.$ If more than $3\ {\rm supports}\ {\rm are}\ {\rm required},$ use the mobile supports (additional).

Busbar centre-to-	sbar centre-to- distance (mm)		Enclosure W300 Depth 800	Enclosure W300 Depth 800
centre distance (mm)	75	75	75	115
Fixed support for lateral flat busbar	NSYBVS500	NSYBVS600	NSYBVS800	NSYBVS800L
Mobile support (additional)	04662	04662	04662	04678

Bar wedging

The bottom support allows the bars to be installed and positioned. It does not count as a bar support.

Busbar centre-to-	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
centre distance (mm)	75	75	75	115
Fixed support for lateral flat busbar	NSYAS500	NSYAS600	NSYAS800	NSYAS800L

Connection to a horizontal busbar, thickness 10 mm

Vertical busbar connection (2)	Horizontal bars	Vertical bars	Reference
	L < 80 mm	50/60 mm	04636
(1 bar/phase) to horizontal bars	L > 80 mm	50/60 mm	04636 + 04642
	L ≤ 80 mm	80 mm	04637
	L > 80 mm	80 mm	04637 + 04642
	L < 80 mm	50/80 mm	04637
(2 bars/phase) to nonzontal bars	L > 80 mm	50/80 mm	04637 + 04642
(2) References 04626 and 04627 are deliver	d oo o unit: 1 link nor nh		

(2) References 04636 and 04637 are delivered as a unit: 1 link per phase







Single busbar \leq 1600 A (IP \leq 31).



Mobile bar support 04662.





Spacial SF for Prisma Plus P system

Rear busbars up to 1250 A Flat bars, thickness 5 mm

Busbar configuration

The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports. The bars rest against one of the fixed supports by means of a wedge screwed onto each bar. The table on this page shows:

- · The number and section of the bars to be used according to the permissible current level of the busbar.
- The number of bar supports to be installed according to the rated short-time withstand current (Icw).



Busbar with lcw 30 kA eff/1 s. The bars are supported by 3 fixed supports, 04653 \times 3 (compulsory), and 2 mobile supports, 04662 imes 2.

B = max. 100 mm A = max. 750 mm C = max. 87.5 mm



Number of copper bars and supports

Permissib level (A)	le current for panel	No. of bars/phase and section (mm)	No. of supports according to rated time withstand currents Icw (kA e		d short- eff/1 s)		
$IP \leq 31$	IP > 31		15	≤ 25	≤ 30	≤ 40	≤ 50
800	750	1 bar, 60 $ imes$ 5					
1000	900	1 bar, 80 $ imes$ 5	2		-		7
1400	1250	2 bars, 60 $ imes$ 5	3		5		1

Busbar selection

Flat bars with width 1675 mm

Perforated copper bar	Reference
60 imes 5~mm	04516
80 imes 5 mm	04518



Bar supports

3 fixed supports are compulsory for supporting the vertical busbars. If more than 3 supports are required, use the mobile supports (additional).



Fixed bar support 04653.

Mobile bar support 04662.

Bar wedging

A metal wedge with thickness 5 mm is screwed onto the bar. It rests against a fixed support and wedges the bar.



Connection to a horizontal busbar

1600 A connection		Reference
to horizontal bars, thickness 5 mm		04635 (1) (2)
to horizontal bars,	$L \le 80 \text{ mm}$	04636 (1) (2)
thickness 10 mm	L > 80 mm	04636 (2) + 04642 (1)

(1) A part of the link must be made using insulated flexible bars. (2) References 04635 and 04636 are delivered as a unit = 1 link per phase.

Schneider

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Busbar configuration

The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports. The bars rest against one of the fixed supports by means of a wedge screwed onto each bar. The table on this page shows:

- · The number and section of the bars to be used according to the permissible current level of the busbar.
- · The number of bar supports to be installed according to the rated short-time withstand current (Icw en KA eff/15).
- · The busbar is installed in suitable enclosures with width 700 mm and depth 500 mm.



Busbar with Icw 40 kA eff/1 s. The bars are supported by 3 fixed supports, 04653 (compulsory), and 2 mobile supports, 04662.

B = max. 100 mm A = max. 375 mm C = max. 87.5 mm



Spacial SF for Prisma Plus P system

Rear busbars up to 1600 A Flat bars, thickness 10 mm

Number of copper bars and supports

Permissible current level (A) for panel	No. of bars/phase and section (mm)	sh	No. of ort-tim	suppo e withs	orts aco stand c	cording urrents	to the lcw (l	e rated kA eff/1	s)
IP > 31		\leq 25	≤ 30	\leq 40	≤ 50	\leq 60	≤ 65	≤ 75	\leq 85
1080	1 bar, 50 $ imes$ 10								
1250	1 bar, 60 $ imes$ 10	3		5		1	7	0	
1600	1 bar, 80 $ imes$ 10							9	

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel

Busbar selection

Flat bars with width 1675 mm

Perforated copper bar	Reference
50 $ imes$ 10 mm	04525
60 $ imes$ 10 mm	04526
80 imes 10 mm	04528



Bar supports

3 fixed supports are compulsory for supporting the vertical busbars. If more than 3 supports are required, use the mobile supports (additional).

Bar support	Reference
fixed for rear flat busbar	04653
mobile (additional)	04662





Mobile bar support 04662.

Bar wedging

Fixed bar support 04653.

A metal wedge with thickness 5 mm is screwed onto the bar. It rests against a fixed support and wedges the bar.



Connection to a horizontal busbar, thickness 10 mm

Conne	Reference	
to horizontal bars,thickness 10 mm	$L \le 80 \text{ mm}$	04636 (1) (2)
	L > 80 mm	04636 (2) + 04642 (1)

(1) A part of the link must be made using insulated flexible bars.
 (2) References 04635 and 04636 are delivered as a unit = 1 link per phase.





Spacial SF for Prisma Plus P system Dimensions

3

Plain or transparent door, side panels



Cable-entry plate



Spacial SF for Prisma Plus P **system** Dimensions

Busbar installation

Side vertical busbar









Automobile application

Built-in system for interlocking the doors of associated enclosures

- 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 prevents the opening of the "outgoing" enclosure doors. Access is only allowed when the main switch or circuit breaker is in "0" position and the main door is open. Manual activation of the rods unlocks the other doors and allows access.
- Designed to be associated with certain circuit breakers or switches: - Square D (9422 A1).
- Telemecanique.
- The built-in secure interlocking system for the door (on demand) of the "incoming"/"outgoing" enclosures allows Spacial SF enclosures to be adapted to the requirements of the American car industry.



Automobile application



Interlocking for main door

- 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".
- Material: steel.
- Finish: zinc-coated.
- The main door interlocking system requires the ordering of both references:
- 1 Activation for secondary doors.
- Interlocking for secondary doors.





N switch and fixings. Configured panel and handle not included.

Supply: two brackets for fixing the configured panel, interlocking elements,





Activation for secondary doors

- System installed in the main enclosure. Activated by manual operation, preventing the opening of the secondary enclosures connected to one another by runner rods.
- It has a secure function which consists 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:

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- Mechanism: zinc-coated steel.
- Activation handle: black plastic.

Supply: elements for activating the main door and fixings.

 \bigcirc For the complete function, both activation (1) and interlocking systems (2) need to be ordered.





Automobile application



Interlocking for secondary doors

- System for interlocking the outgoing enclosures connected to one another by runner rods that lock their doors.
 Fixing to the structure of the enclosures by screws.
 Material: steel.
 Finish: zinc-coated.

Supply: elements for interlocking the secondary doors and fixings.

For the complete function, both activation (1) and interlocking systems (2) need to be ordered. \bigcirc

Nominal dimensions (mm)	Reference
Width	
600	NSYSLCKS6
800	NSYSLCKS8
1000	NSYSLCKS10