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).

Configured

Specific

Specific finishes and colours, please contact us.

Spacial SF for Prisma Plus P system
Composition accessories



W = 300 mm.



Enclosure depth 500



W = 700 mm.

Enclosure depth 600 or 800

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.

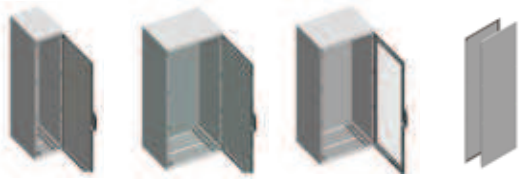
And can be coupled side-to-side and back-to-back.

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.

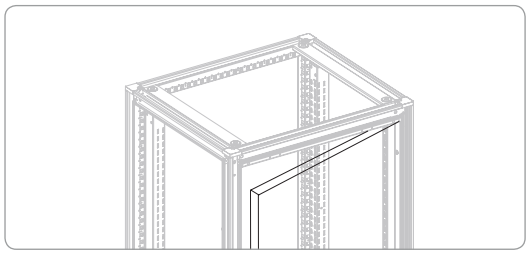
All Spacial SF enclosures for Prisma Plus P system can be coupled with Spacial SF enclosures with the same depth.



Height	Depth	Width			Set of 2 lateral panels
		300 Plain door	700 Plain door	700 Glazed door	
2000	500	**NSYSF20350**	**NSYSFP20750**	**NSYSFP20750T**	**NSY2SP205**
	600	**NSYSF20360**	**NSYSFP20760**	**NSYSFP20760T**	**NSY2SP206**
	800	**NSYSF20380**	**NSYSFP20780**	**NSYSFP20780T**	**NSY2SP208**

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.

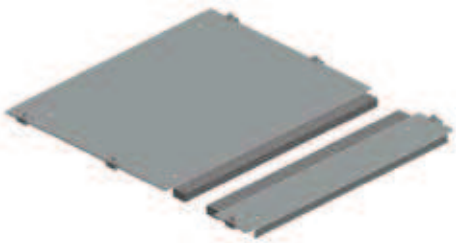
Reference
08566

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.



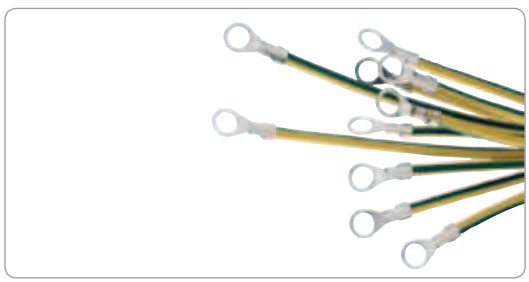
Width	Depth	Plinth H 100 mm		Plinth H 200 mm	
		Front/rear panels	Side panels	Front/rear panels	Side panels
300	500	NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200
	600		NSYSPS6100		NSYSPS6200
	800		NSYSPS8100		NSYSPS8200
700	500	NSYSPF7100	NSYSPS5100	NSYSPF7200	NSYSPS5200
	600		NSYSPS6100		NSYSPS6200
	800		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 × 25 mm and fixing elements.

Width	Depth	Reference
300	500	NSYEC351
	600	NSYEC361
	800	NSYEC381
700	500	NSYEC751
	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 ∅ (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.

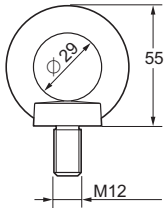
Nominal dimensions (mm)		Reference
Height	Depth	
2000	500	**NSY2SP205**
	600	**NSY2SP206**
	800	**NSY2SP208**

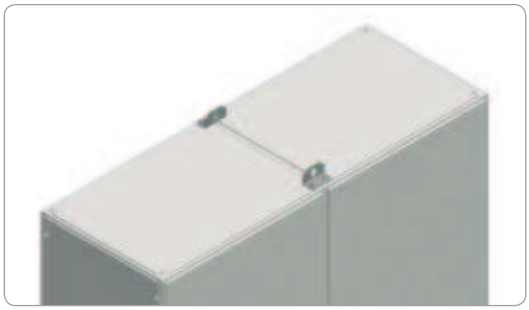


Eyebolts

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

Reference
NSYSFEB

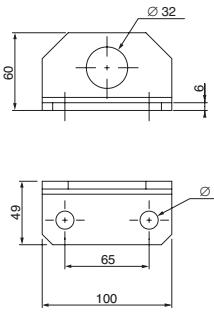


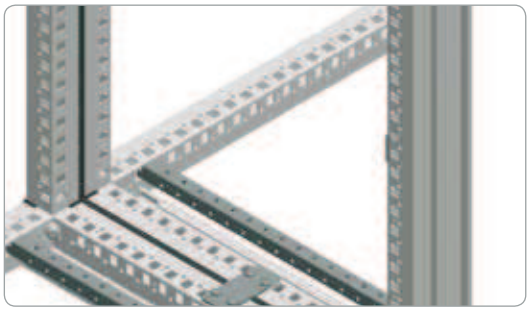


Lifting brackets

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

Reference
NSYSFELB



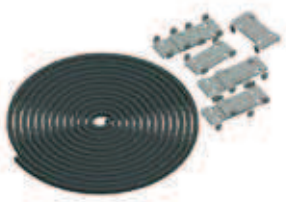


Coupling kit

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.

Reference
NSYSFBK19



* Back to back associations must be shipped individually.

Spacial SF for Prisma Plus P system
Horizontal busbars up to 1600 A

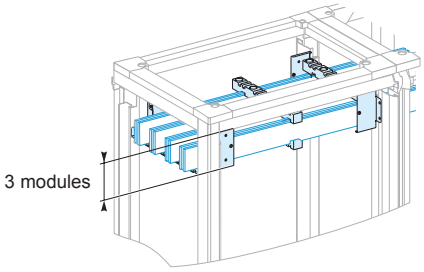
Busbar configuration

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:

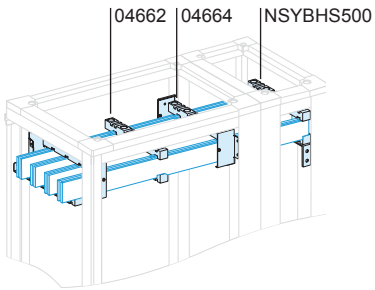
– The section of the bars
– The rated short-time withstand current Icw.

For further information on configuring the busbar, see page **128**.

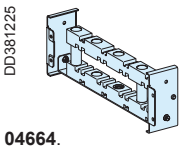
The busbar takes up 3 Prisma modules of 50 mm each.



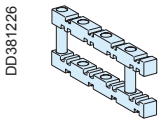
Busbar selection



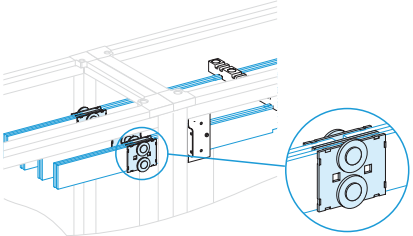
Fixed support and mobile support.



04664.



04662.



Connection.

Number and section of the copper bars

Permissible current level (A) IP55	No. bars/phase
750	1 bar, 60 × 5
900	1 bar, 80 × 5
1250	2 bars, 60 × 5
1600	2 bars, 80 × 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 (mm)	Bar section (mm)	No. of Icw supports (kA eff/1 s)				
		≤ 15	≤ 25	≤ 30	≤ 40	≤ 50
700	1 bar, 60 × 5	2			3	
	1 bar, 80 × 5					
	2 bars, 60 × 5					
	2 bars, 80 × 5					
300	All sections	1			2	

Flat bars with width 2000 mm

Type of bar	Reference
Plain copper bar, 60 × 5	**04536**
Plain copper bar, 80 × 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-centre distance (mm)	Enclosure W700 Depth 500	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800
	75	75	75	75
Fixed support for horizontal bars	**04664**	**NSYBHS500**	**NSYBHS600**	**NSYBHS800**
Mobile support (additional)	**04662**	**04662**	**04662**	**04662**

Connections

Connections		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

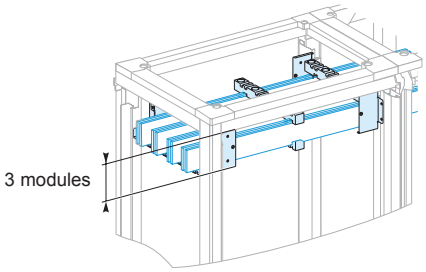
Busbar configuration

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 **125**.

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



Number and section of the copper bars

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

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

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

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

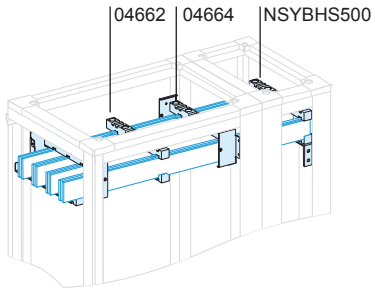
Number of supports (centre-to-centre distance: 115 mm)

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

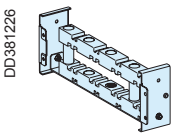
Spacial SF for Prisma Plus P system

Horizontal busbars up to 3200 A

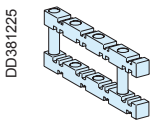
Busbar choice



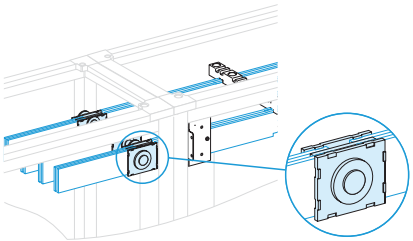
Fixed support and mobile support.



04664.



04662.



Flat bars with width 2000 mm

Type of bar	Reference
Plain copper bar, 50 × 10	**04545**
Plain copper bar, 60 × 10	**04546**
Plain copper bar, 80 × 10	**04548**
Plain copper bar, 100 × 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-centre distance (mm)	Bar width	Enclosure W700	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800
		75	75	75	75
Fixed support for horizontal bars	⩽80 mm	**04664**	**NSYBHS500**	**NSYBHS600**	**NSYBHS800**
	>80 mm	**04664 +04671**	**NSYBHS500 +04671**	**NSYBHS600 +04671**	**NSYBHS800 +04671**
Mobile support (additional) for bars	⩽80 mm	**04662**	**04662**	**04662**	**04662**
	>80 mm	**04662 +04671**	**04662 +04671**	**04662 +04671**	**04662 +04671**

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

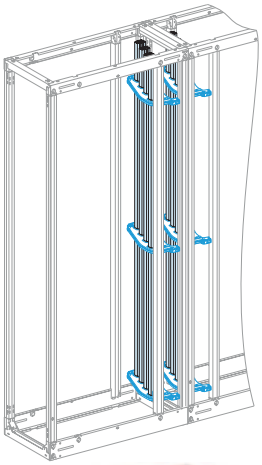
Busbar configuration

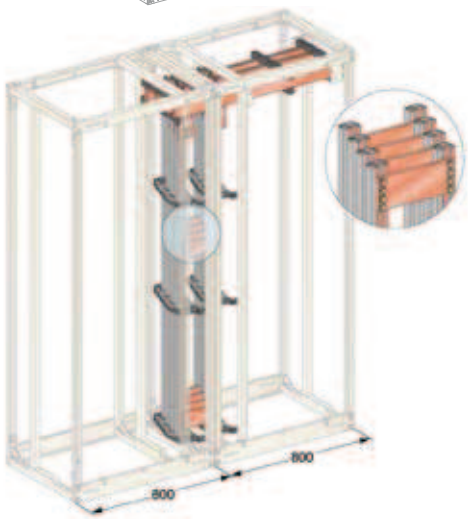
The table on this page shows:
- The reference of the aluminium profiles to be used according to the permissible current level of the busbar.
- The number of supports to be used according to the rated short-time withstand current (Icw in kA eff/1 s).

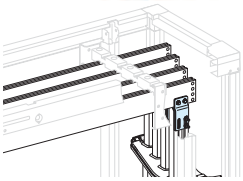
Beyond 1600 A, the busbar is doubled in two bar compartments, side-by-side.
In this case, it is compulsory to install 3 equipotential links between the busbars.
- The support is identical, regardless of the current-carrying capacity.

Linergy rail	Reference of 1 rail	Permissible current level (A) at 35 °C for panel	No. of supports according to the rated short-time withstand currents Icw (kA eff / 1 s)							
		IP > 31	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
Single busbar										
Linergy 630	**04502**	590	3							
Linergy 800	**04503**	760								
Linergy 1000	**04504**	950								
Linergy 1250	**04505**	1170				4	5			
Linergy 1600	**04506**	1480							7	8
Double busbar										
Linergy 2000	**04504** × 2	1820	2 × 3				2 × 4		2 × 5	
Linergy 2500	**04505** × 2	2260								
Linergy 3200	**04506** × 2	2920								

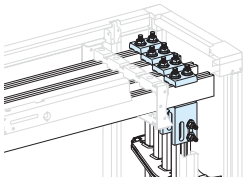
Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel. The bottom support can also be used to wedge the bars. Each reference consists of 1 rail.







04635 connection to horizontal bars, thickness 5 mm.



04636 connection to horizontal bars, thickness 10 mm.

Busbar selection

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



630 A rail, ref. **04502**



800 A rail, ref. **04503**



1000 A rail, ref. **04504**



1250 A rail, ref. **04505**



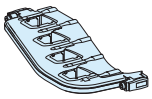
1600 A rail, ref. **04506**

Bar support and adapter upright

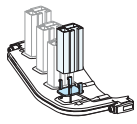
- To install a Linergy busbar in a 300-mm sheath, depth 500 mm, it is necessary to add the adapter uprights.
- The Linergy bar supports are delivered with class 8.8 fixings.

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.



Bar support 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, thickness 5 mm	1000 A connection conductor	**04634**
	1600 A connection conductor	**04635**
to horizontal bars, thickness 10 mm	connection conductor for horizontal bar width ≤ 80 mm	**04636**
	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.

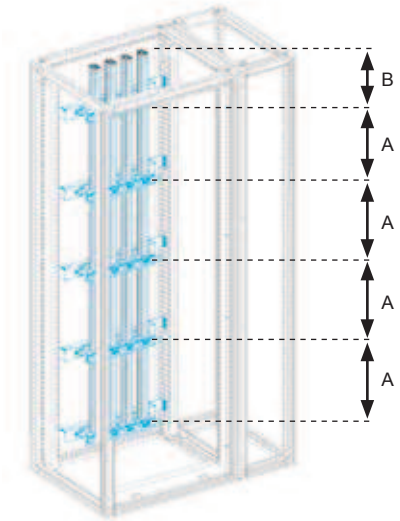
Spacial SF for Prisma Plus P system

Linergy rear busbars up to 1600 A

Busbar configuration

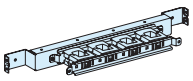
The table on this page shows:
- The reference of the profiles to be used according to the permissible current level of the busbar.
- The number of supports to be used according to the rated short-time withstand current (Icw in kA eff/1 s).

The busbar is installed in enclosures with width 700 mm, depth 500 mm.
- The support is identical, regardless of the current-carrying capacity.

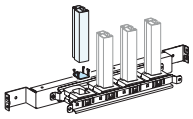


Busbar up to 1600 A (30 kA SCC and 40 kA).
The bottom support can also be used to wedge the bars.

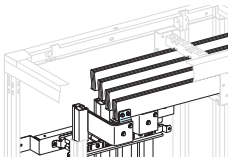
B = max. 387.5 mm
A = max. 350 mm



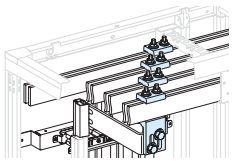
Bar support.



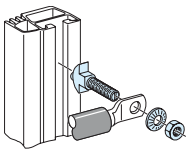
Each bar is delivered with one stop to be installed on the bottom support (vertical wedging).



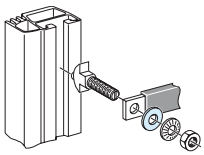
04635 connection with horizontal bars, thickness 5 mm.



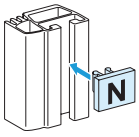
04636 connection with horizontal bars, thickness 10 mm.



Linergy bolts (screw + nut + contact washer).



Flat washers.

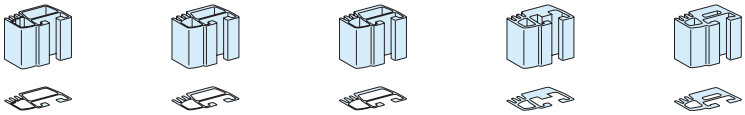


Linergy rail	Reference of 1 rail	Permissible current level (A) at 35 °C for panel	No. of supports according to the rated short-time withstand currents Icw (kA eff/1 s)			
		IP > 31	≤ 25	≤ 30	≤ 40	≤ 50
Linergy 630	**04502**	590	3			
Linergy 800	**04503**	760		4		
Linergy 1000	**04504**	950			5	
Linergy 1250	**04505**	1170				7
Linergy 1600	**04506**	1480				

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.



630 A rail, ref. **04502**

800 A rail, ref. **04503**

1000 A rail, ref. **04504**

1250 A rail, ref. **04505**

1600 A rail, ref. **04506**

Bar support

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

Connection (2)		Reference
to horizontal bars, thickness 5 mm		**04635 (1)**
to horizontal bars, thickness 10 mm	horizontal bars, width ≤ 80 mm	**04636 (1)**
	horizontal bars, width > 80 mm	**04636 + 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.

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

Batch of 20 M8 flat washers		Reference
steel	outer diameter 20 mm	**04772**
	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**

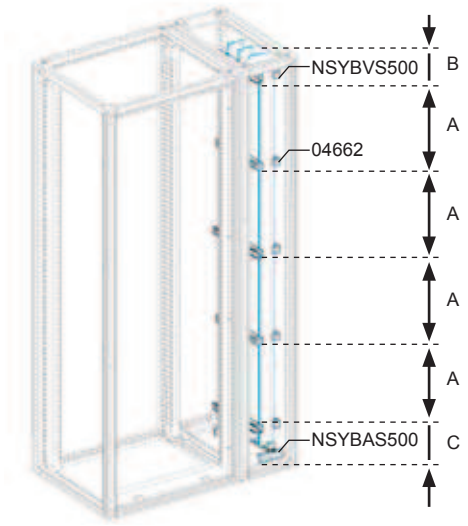
Spacial SF for Prisma Plus P system

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

Busbar configuration

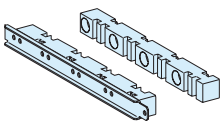
The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports.
The bars are resting against a bottom support.
The table on this page shows:

- 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).

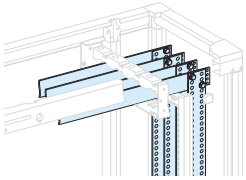


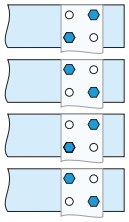
Busbar with Icw 30 kA eff/1 s.
The bars are supported by 3 fixed supports (compulsory) and 2 mobile supports.

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



Mobile bar support **04662.**





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

Number of copper bars and supports

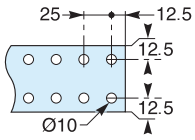
Permissible current level (A) for panel	No. of bars/phase and section (mm)	No. of supports according to the rated short-time withstand currents Icw (kA eff/1 s)				
IP > 31		15	≤ 25	≤ 30	≤ 40	≤ 50
750	1 bar, 60 × 5	3	5	5	5	7
900	1 bar, 80 × 5					
1250	2 bars, 60 × 5					
1600	2 bars, 80 × 5					

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 × 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)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	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.

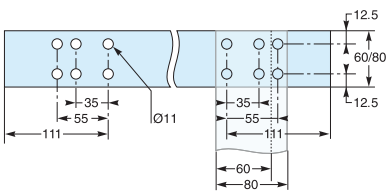
Busbar centre-to-centre distance (mm)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	75	75	75	115
Bottom support for lateral flat busbar	**NSYAS500**	**NSYAS600**	**NSYAS800**	**NSYAS800L**

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.



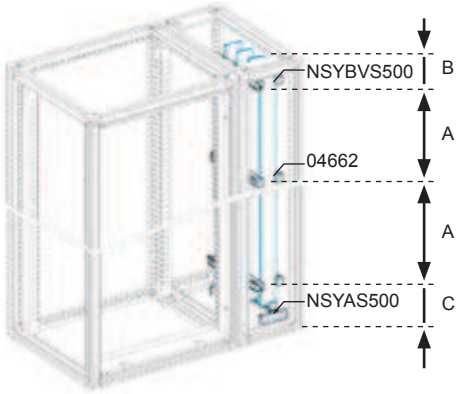
Drilling dimensions for the horizontal bars, thickness 5 mm.

Spacial SF for Prisma Plus P system

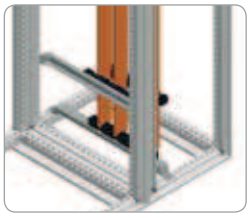
Vertical busbars up to 3200 A
Flat bars, thickness 10 mm

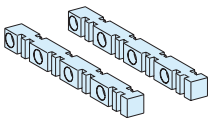
Busbar configuration

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).

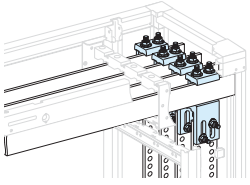


Single busbar ≤ 1600 A (IP ≤ 31).





Mobile bar support **04662.**



Number of copper bars and supports

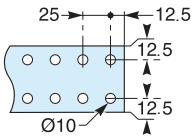
Permissible current level (A) for panel		No. of bars/phase and section (mm)	No. of supports according to the rated short-time withstand currents Icw (kA eff/1 s)							
IP ≤ 31	IP > 31		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
Single busbar										
1200	1080	1 bar, 50 × 10	3		5		7		9	
1400	1250	1 bar, 60 × 10								
1800	1600	1 bar, 80 × 10								
2050	1850	2 bars, 50 × 10								
2300	2000	2 bars, 60 × 10								
2820	2500	2 bars, 80 × 10								
3200	2820	2 bars, 100 × 10								

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 × 10 mm	**04525**
60 × 10 mm	**04526**
80 × 10 mm	**04528**



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)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	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-centre distance (mm)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	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
(1 bar/phase) to horizontal bars	L ≤ 80 mm	50/60 mm	**04636**
	L > 80 mm	50/60 mm	**04636 + 04642**
	L ≤ 80 mm	80 mm	**04637**
	L > 80 mm	80 mm	**04637 + 04642**
(2 bars/phase) to horizontal bars	L ≤ 80 mm	50/80 mm	**04637**
	L > 80 mm	50/80 mm	**04637 + 04642**

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

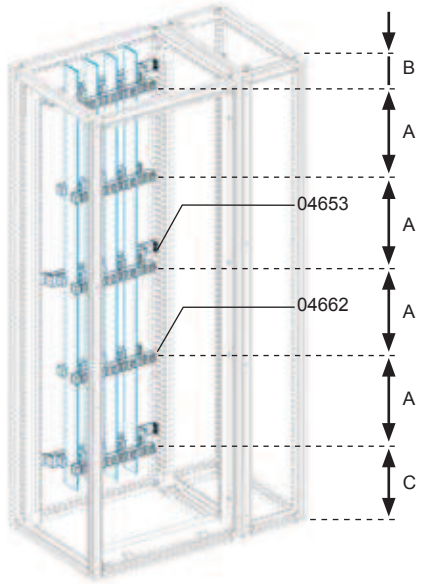
Spacial SF for Prisma Plus P system

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

Busbar configuration

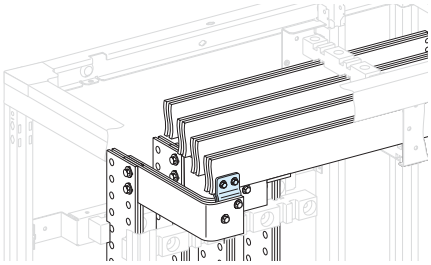
The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports.
The bars rest against one of the fixed supports by means of a wedge screwed onto each bar.
The table on this page shows:

- 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 Icw 30 kA eff/1 s.
The bars are supported by 3 fixed supports, 04653 × 3 (compulsory), and 2 mobile supports, 04662 × 2.

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



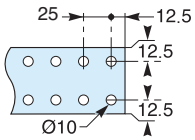
Number of copper bars and supports

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

Busbar selection

Flat bars with width 1675 mm

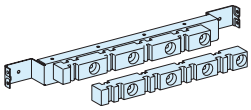
Perforated copper bar	Reference
60 × 5 mm	**04516**
80 × 5 mm	**04518**



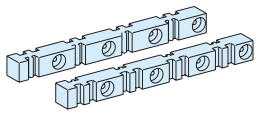
Bar supports

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

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



Fixed bar support **04653.**

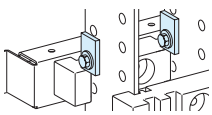


Mobile bar support **04662.**

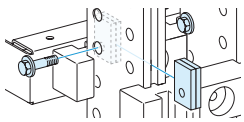
Bar wedging

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

Wedge for bars	Reference
100 5-mm wedges for bars	**04669**



Wedging: 1 bar/phase.



Wedging: 2 bars/phase.

Connection to a horizontal busbar

1600 A connection		Reference
to horizontal bars, thickness 5 mm		**04635 (1) (2)**
to horizontal bars, thickness 10 mm	L ≤ 80 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.

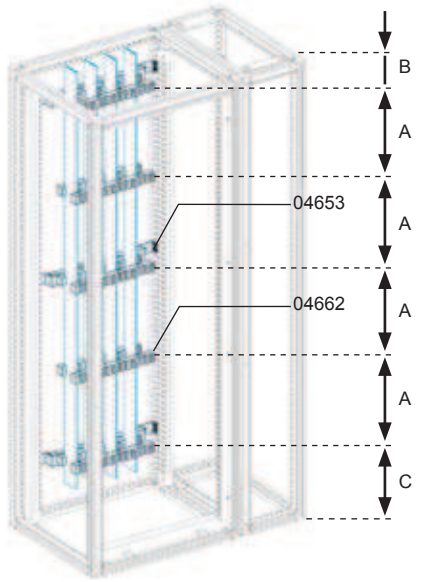
Spacial SF for Prisma Plus P system

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

Busbar configuration

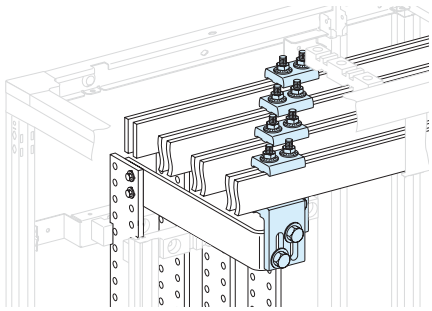
The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports.
The bars rest against one of the fixed supports by means of a wedge screwed onto each bar.
The table on this page shows:

- 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 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



Number of copper bars and supports

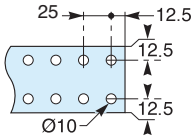
Permissible current level (A) for panel	No. of bars/phase and section (mm)	No. of supports according to the rated short-time withstand currents Icw (kA eff/1 s)							
IP > 31		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
1080	1 bar, 50 × 10	3	5			7		9	
1250	1 bar, 60 × 10								
1600	1 bar, 80 × 10								

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

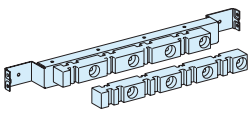
Perforated copper bar	Reference
50 × 10 mm	**04525**
60 × 10 mm	**04526**
80 × 10 mm	**04528**



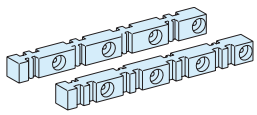
Bar supports

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**



Fixed bar support **04653.**

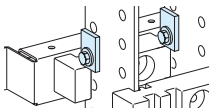


Mobile bar support **04662.**

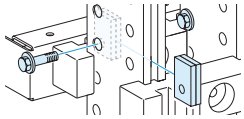
Bar wedging

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

Wedge for bars	Reference
100 5-mm wedges for bars	**04669**



Wedging: 1 bar/phase.



Wedging: 2 bars/phase.

Connection to a horizontal busbar, thickness 10 mm

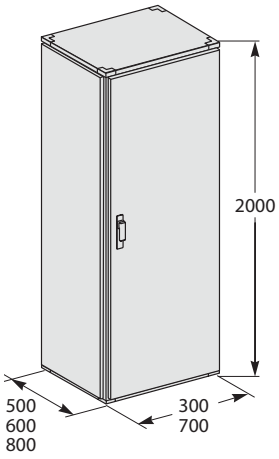
Connection ≤ 1600 A		Reference
to horizontal bars,thickness 10 mm	L ≤ 80 mm	**04636 (1) (2)**
	L > 80 mm	**04636 (2) + 04642 (1)**

(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.

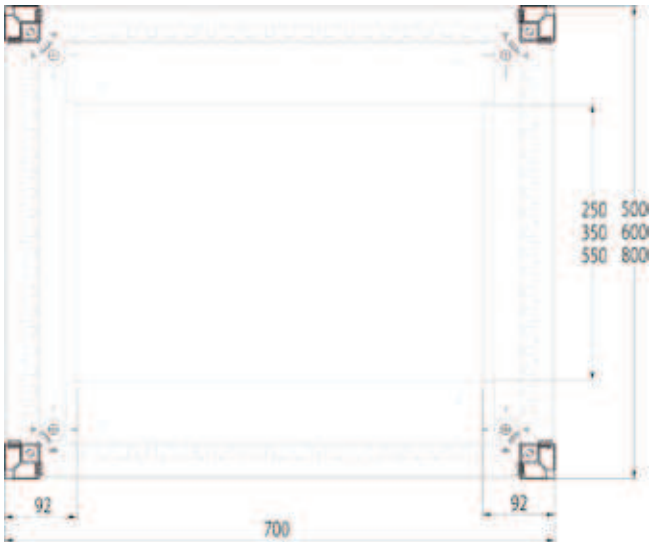
Spacial SF for Prisma Plus P system
Dimensions

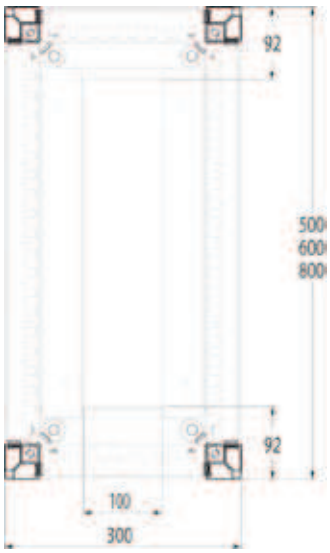


Plain or transparent door, side panels



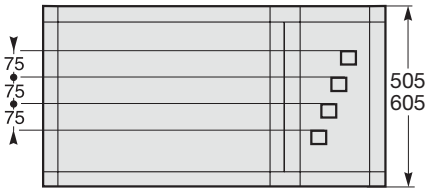
Cable-entry plate



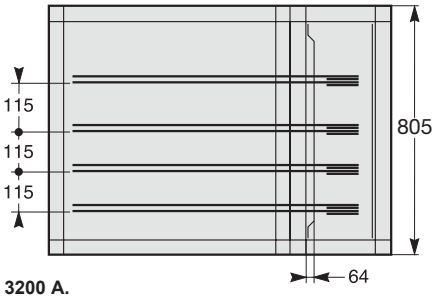


Spacial SF for Prisma Plus P system
Dimensions

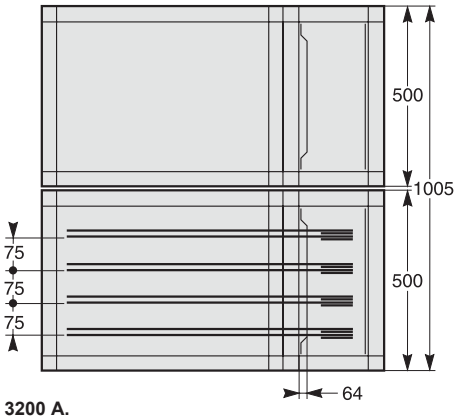
Busbar installation
Side vertical busbar



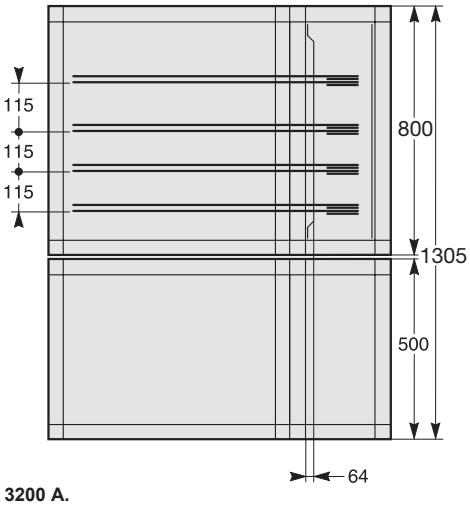
1600 A.



3200 A.



3200 A.



3200 A.