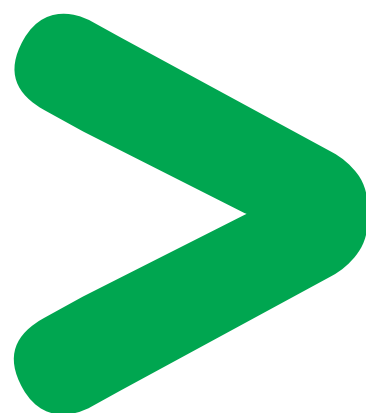


Prisma PH



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Cat. no.	Designation	
01000		
01109	Chocks (4) for Linergy LGY busbars	10, 13
01130	Linerger LGE busbar screw plate kit	15
03000		
03583	Universal angle brackets (6)	18
04000		
04229	Voltage tap-offs for tab connectors, M10 (20)	15
04502	Linerger LGY vertical busbar, 630 A	10, 13
04503	Linerger LGY vertical busbar, 800 A	10, 13
04504	Linerger LGY vertical busbar, 1000 A	10, 13
04505	Linerger LGY vertical busbar, 1250 A	10, 13
04506	Linerger LGY vertical busbar, 1600 A	10, 13
04516	Vertical Linergy BS busbar with holes, 60x5 mm	12, 14
04518	Vertical Linergy BS busbar with holes, 80x5 mm	12, 14
04525	Vertical Linergy BS busbar with holes, 50x10 mm	12, 14
04526	Vertical Linergy BS busbar with holes, 60x10 mm	12, 14
04528	Vertical Linergy BS busbar with holes, 80x10 mm	12, 14
04536	Horizontal Linergy BS busbar without holes, 60x5 mm	9
04538	Horizontal Linergy BS busbar without holes, 80x5 mm	9
04545	Horizontal Linergy BS busbar without holes, 50x10 mm	9
04546	Horizontal Linergy BS busbar without holes, 60x10 mm	9
04548	Horizontal Linergy BS busbar without holes, 80x10 mm	9
04550	Horizontal Linergy BS busbar without holes, 100x10 mm	9, 12
04552	Horizontal Linergy BS busbar without holes, 120x10 mm	9
04560	Linerger LGE horiz. busbar 630 A	8, 11
04561	Linerger LGE horiz. busbar 800 A	8, 11
04562	Linerger LGE horiz. busbar 1000 A	8, 11
04563	Linerger LGE horiz. busbar 1250 A	8, 11
04564	Linerger LGE horiz. busbar 1600 A	8, 11
04565	Linerger LGE horiz. busbar 2000 A	8, 11
04566	Linerger LGE horiz. busbar 2500 A	8, 11
04567	Linerger LGE horiz. busbar 3200 A	8, 11
04568	Linerger LGE horiz. busbar 4000 A	8, 11
04602	Linerger LGE vert. connection 1600 A	10, 13
04603	Linerger LGE shift vert. connection 1600 A	10
04604	Linerger LGE vert. short connection 2500 A	11
04605	Linerger LGE vert. long connection 2500 A	11
04607	Linerger LGE vert. connection 4000 A	11
04620	Linerger LGE horiz. connection 1600 A	8

Cat. no.	Designation	
04621	Linerger LGE horiz. connection 2500 A	8
04623	Linerger Evol. horiz. connection 4000 A	8
04624	Isolating screen neutral Linergy LGE	8
04634	Connection plate for 5 mm horizontal bar to lateral Linergy busbar, 1000 A	10
04635	Connection plate for 5 mm horizontal bar to lateral Linergy busbar, 1600 A	10, 13, 14
04636	Connection plate for 10 mm horizontal bar, 1600 A	10, 12, 13, 14
04637	Connection plate for 10 mm horizontal bars to vertical flat bar, 3200 A	12
04638	Connection plate for 10 mm horizontal bars and vertical bars, 4000 A	10, 12
04640	Joint for 50/60 mm horizontal busbars	9
04641	Joint for 80/100 mm horizontal busbars	9
04642	Mounting hardware for joint > 80 mm	10, 12, 13, 14
04643	Joint for horizontal busbars, L = 120 mm	9
04645	Screws for connection between vertical and horizontal busbars (20)	12
04646	12 spacers 150mm Linergy LGE 4000 A	8
04651	Support for lateral vertical Linergy LGE busbars	10
04652	Support for rear vertical Linergy LGE busbars	13
04653	Support for rear vertical 5 or 10 mm thick busbars	14
04658	12 chock for Linergy LGE 1600 A vert.	11
04659	12 chock for Linergy LGE 4000 A vert.	11
04662	Free support for 5 or 10 mm thick busbars	8, 9, 11, 12, 14
04664	Support for 5 or 10 mm thick horizontal busbars	8, 9
04666	Bottom support for lateral vertical 5 or 10 mm thick busbars, W300	11
04669	Mounting chocks (100) for 5 mm busbars	14
04671	Support mounting hardware for bars > 80 mm	8, 9
04678	D600 5/10 mm busbar free support	9, 11, 12
04759	Torque nuts, M8 (20)	15
04766	Bolts for lug connection to Linergy busbars (20)	15
04767	Bolts for bar connection to Linergy busbars (20)	15
04768	Set of 12 screwplates for Linergy LGE 2500 A	15
04769	Set of 8 screwplates for Linergy LGE 4000 A	15
04772	M8 Washers for insulated flexible bars (20), external diameter 20 mm	15
04773	M8 Washers for insulated flexible bars (20), external diameter 24 mm	15
04774	M8 Washers for insulated flexible bars (20), external diameter 28 mm	15

Cat. no.	Designation		Cat. no.	Designation	
04775	M8 conducting washers for lugs ≤ 25 mm ² (20), external diameter 20 mm	15	06604	Transfert in duct w/o connection 630 A 3P	19
04782	Bolts for bars (20), M8 x 20	15	06605	Transfert in duct w/o connection 630 A 4P	19
04783	Bolts for bars (20), M8 x 25	15	06606	Transfert in duct w/o connection 250 A 3P	19
04784	Bolts for bars (20), M8 x 30	15	06607	Transfert in duct w/o connection 250 A 4P	19
04785	Bolts for bars (20), M8 x 35	15	08000		
04786	Bolts for bars (20), M8 x 40	15	08566	Front plate support frame, W650	20
04787	Bolts for bars (20), M8 x 45	15	08911	Earthing wire, 6 mm ²	21
04788	Bolts for bars (20), M8 x 50	15	NSY		
04794	Linergy markers (12)	15	NSYAS500	Bottom support for lateral vertical busbar D500	11, 12
04901	Form 3 horizontal partition	18	NSYAS800	Bottom support for lateral vertical busbar D800	11, 12
04911	Inter-cubicle partition, D400	17	NSYAS800L	Bottom support for lateral vertical busbar D800, 115 mm spacing	11, 12
04924	Form 2 restoration kit for side barrier cut-out	17	NSYBHS500	Horizontal busbar support W300, D500	9
04943	Rear support for Form 3 partition	18	NSYBHS800	Horizontal busbar support W300, D800	9
04946	Form 4 backplate for front connection, D600	19	NSYBHS800L	Horizontal busbar support D800, 115 mm spacing	9
04951	Form 4 gland plate, 3 or 4 modules	19	NSYBVS500	Vertical lateral busbar support D500	11, 12
04952	Form 4 gland plate, 5 or 6 modules	19	NSYBVS800	Vertical lateral busbar support D800	11, 12
04955	Form 3 vertical partition for rear connection, 3 or 4 modules	18	NSYBVS800L	Vertical lateral busbar support D800, 115 mm spacing	11, 12
04956	Form 3 vertical partition for rear connection, 5 or 6 modules	18	NSYEC351	Entry cable gland plate W300, D500	21
06000			NSYEC381	Entry cable gland plate W300, D800	21
06461	20 bolts, M6	21	NSYEC751	Entry cable gland plate W700, D500	21
06501	Uprights H2000 (2)	20	NSYEC781	Entry cable gland plate W700, D800	21
06502	Adapted uprights H2000 (2)	10, 20	NSYEL166D8	Earthing lead, 6 mm ² section, 160 mm length, 8.3 mm terminal	21
06503	Adapted uprights + intermediary H2000 (2)	20	NSYEL3525D8	Earthing lead, 25 mm ² section, 350 mm length, 8.3 mm terminal	21
06512	2 frames + roof W300, D500	20	NSYS5GPC35	Seismic plinth H100 700 x 500	22
06513	2 frames + roof W300, D800	20	NSYS5GPC38	Seismic plinth H100 300 x 500	22
06514	2 frames + flanges + roof W700, D500	20	NSYS5GPC75	Seismic plinth H100 700 x 800	22
06515	2 frames + flanges + roof W700, D800	20	NSYS5GPC78	Seismic plinth H100 300 x 800	22
06522	Plain door W300	20	NSYSFBK19	Coupling kit	21
06524	Plain door W700	20	NSYSFEB	4 lifting eyes M12	21
06525	Transparent door W700	20	NSYSFELB	4 lifting brackets	21
06533	Rear panel W300	20	NSYSPPF3100	Front plinth 100x300	21
06535	Side panel D500 (2)	20	NSYSPPF3200	Front plinth 200x300	21
06537	Rear panel W700	20	NSYSPPF7100	Front plinth 100x700	21
06538	Side panel D800 (2)	20	NSYSPPF7200	Front plinth 200x700	21
06540	Form 2 front back barrier W300	17	NSYSPPS5100	2 plinth side panels 100x500	21
06543	Form 2 side barrier ext. to D800	17	NSYSPPS5200	2 plinth side panels 200x500	21
06545	Side barrier form 2 D500	17	NSYSPPS8100	2 plinth side panels 100x700	21
06555	Inter-cubicles cover D500	17	NSYSPPS8200	2 plinth side panels 200x700	21
06560	Form 2 horiz. cover W300, D500	17			
06563	Form 2 horiz. cover W300, D500+300	17			
06567	Form 2 horiz. cover 4M W700, D500+300	17			
06568	Form 2 horiz. cover 4M W300, D500+300	17			
06570	Form 2 horiz. cover W700, D500	17			
06600	Form 4 partition for FU 3 to 5 modules	19			
06601	Form 4 partition for FU 4 to 6 modules	19			

Electrical switchboards ...

The Prisma functional system can be used for all types of low-voltage distribution switchboards up to 4000 A, in commercial and industrial environments.



Switchboard design is very simple



① A metal structure

made up of one or more frameworks combined side-by-side or back-to-back.

② A distribution system

positioned in a lateral compartment or at the rear of the cubicle are used to distribute electricity throughout the switchboard.

③ Complete functional units

- dedicated mounting plate for device installation
- front plate to block direct access to live parts.
- devices for on-site connections.

The functional units are modular and are arranged rationally, one on top of another, within the enclosure. The components of the Prisma PH system and those of the functional units in particular have been designed and tested taking into account device characteristics. This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.

Advantages of PH system switchboards



① A safe electrical installation

The total compatibility of Schneider Electric devices with the PH system is a key advantage in ensuring a high level of installation dependability.

② An upgradeable electrical installation

Thanks to modular design, PH switchboards can be modified easily to integrate new functional units as needed.

③ Total safety for personnel

Work in a switchboard must be carried out by authorised persons in compliance with all applicable safety regulations. To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible. Additional internal protection (partitions, barriers) is available to create form 2, form 3 and form 4 separation to protect against direct contacts with live parts.

Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in PH system enclosures.

... Up to 4000 A



Use of the components in the Prisma functional system ensures the creation of switchboards complying with standards IEC 50298, IEC 61439-1&2.



Electrical characteristics



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

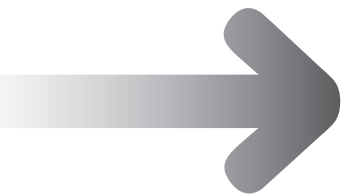
Mechanical characteristics



- Steel sheet metal.
- Electrophoresis treatment + hot-polymerised polyester epoxy powder.
- White colour RAL 9001.
- Can be dismantled.
- Can be combined side-by-side and back-to-back.
- Degree of protection: IP55.
- Degree of protection against mechanical impacts: IK10 with door.
- Framework dimensions:
 - two widths:
 - W 300: cable compartment
 - W 700: device compartment or cable compartment
 - two depths:
 - D500 up to 1600 A with incoming Masterpact NT only
 - D800 up to 4000 A with incoming Masterpact NT or NW
 - height: 2000 mm
- Indoor cubicles.



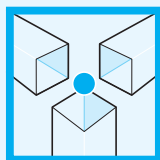
Electrical switchboards built using the Prisma functional system and Schneider Electric recommendations fully comply with international standard IEC 61439-1&2.



Prisma PH functional system

The forms according to IEC 61439-1&2

Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.



In most installations, Prisma cubicles do not require partitioning. In this case, the switchboard is a Form 1.

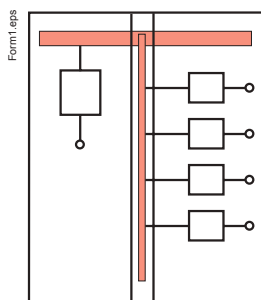
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

The protection of life and property is a standard feature due to:

- front plates that require a tool to be removed
- keylocks on doors, some of which provide access to live parts
- the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors
- covering of the upstream and downstream terminals on the incoming device so that operators are perfectly safe at all points in the switchboard when the incoming device is off (open).

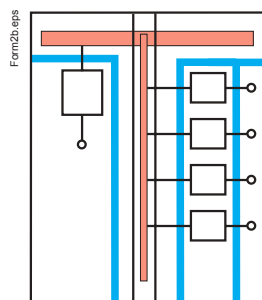
What is more, Prisma PH offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a and 4b electrical switchboards. Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-1&2.

Form 1



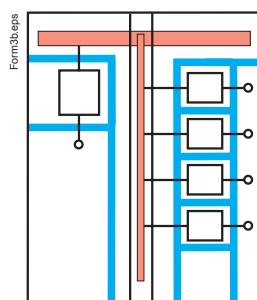
In most installations, Prisma PH cubicles do not require partitioning. In this case, the switchboard is a Form 1. Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

Form 2b



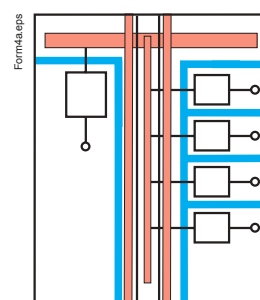
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

Form 3b



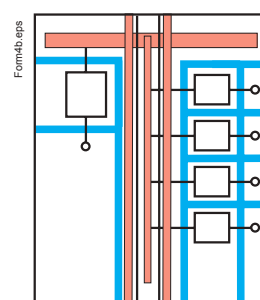
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

Form 4a



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

Form 4b



Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.



Switchgears



Upgradeable Prisma functional units

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

Masterpact
NW08 to NW40



Masterpact
NT06 to NT16



Compact NSX
up to 630 A



Compact NS
from 630b to 1600 A



Compact NS
up to 3200 A



Easypact
from 100 to 630 A



Compact INS-INV250-630 A



Compact INS-INV630-2500 A



Source changeover systems
Compact/Masterpact



Source changeover systems
Compact INS



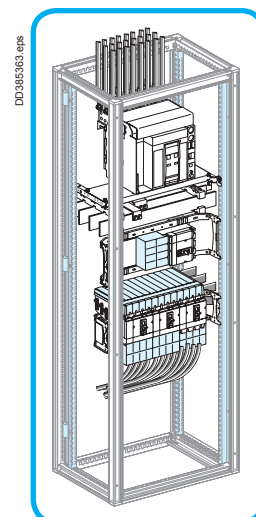
Fupact
from 32 to 1250 A



Multi 9 - Acti 9



Accessories



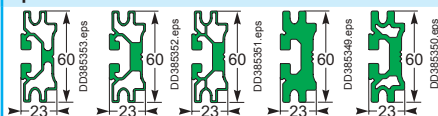
For more informations, see the catalogue Prisma P DESW016EN.

Linergy LGYE profiles

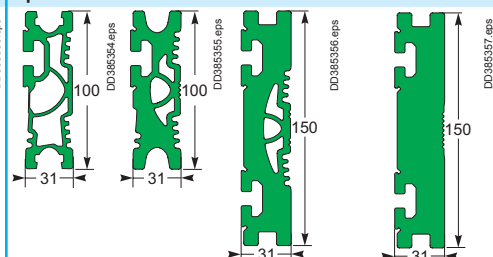
Installation in Prisma PH

Linergy profile, 2000 mm length

Up to 1600 A

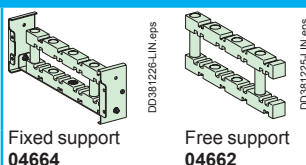
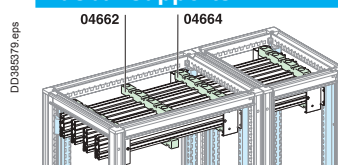


Up to 4000 A



	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Permissible current for an ambient temperature of 35 °C around the switchboard	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3620
	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350
Number of profiles per phase	1					3		4	
Total number of vertical modules (50 mm)	3					3		4	
Cat. no.	04560	04561	04562	04563	04564	04565	04566	04567	04568

Busbar supports



Characteristics

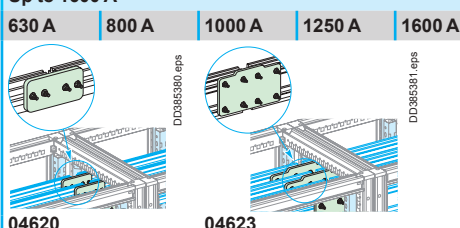
2 fixed supports for Prisma PH 700 wide frame are compulsory.
1 fixed support for 300 wide frame are compulsory.
If more supports are needed, add free supports.

In cubicle: Prisma PH W700 Busbar supports 75 mm distance between	Number of supports depending on I _{cw} (kA rms/1 s)	≤ 15	2						
		≤ 25	2						
		≤ 30	2						
		≤ 40	-	2					
		≤ 50	-		2				
		≤ 60	-		2+1	2			
		≤ 65	-			2+1			
		≤ 75	-			2+1			
		≤ 85	-			2+1			
		≤ 100	-				2+2		
Cat. no.	Fixed support	04664				04664 + 04671 (order 1 per support)	04664 + 04646 (sold in lots of 12 spacers)		
Cat. no.	Free support	04662				04662 + 04671 (order 1 per support)	04662 + 04646 (sold in lots of 12 spacers)		
In duct: Prisma PH W300 Busbar supports 75 mm distance between	Number of supports depending on I _{cw} (kA rms/1 s)	≤ 15	1						
		≤ 25	1						
		≤ 30	1						
		≤ 40	1						
		≤ 50	1						
		≤ 60	1						
		≤ 65	1 + 1						
		≤ 75	1 + 1						
		≤ 85	1 + 1						
		≤ 100	-			1 + 1			
Cat. no.	Fixed support	04664				04664 + 04671 (order 1 per support)	04664 + 04646 (sold in lots of 12 spacers)		
Cat. no.	Free support	04662				04662 + 04671 (order 1 per support)	04662 + 04646 (sold in lots of 12 spacers)		

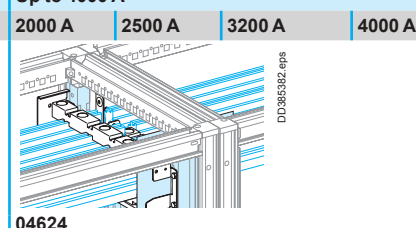
Joints

Installation in Prisma PH

Up to 1600 A



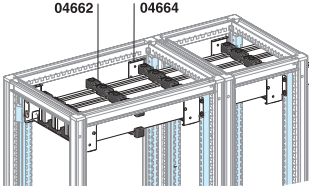
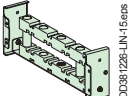
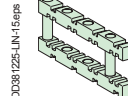
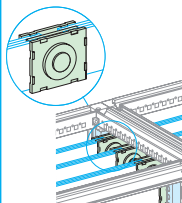
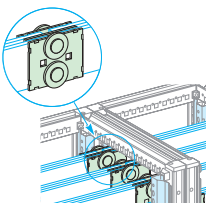
Up to 4000 A



Cat. no.	3 x 04620 (3P) 4 x 04620 + 04624 (4P)	3 x 04621 (3P) 4 x 04621 + 04624 (4P)	3 x 04623 (3P) 4 x 04623 + 04624 (4P)
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Note Reference 04624 is compulsory when installing jointed Linergy LGYE 4P busbars and must be fitted where the frames meet. When installed at the bottom of a cubicle, the busbar must be partitioned.

Note: for accessories, see page 21.

Flat busbars													
Installation in Prisma PH		Up to 1600 A				Up to 4000 A							
Copper bar, 2000 mm length													
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1800 A	2050 A	2300 A	2820 A	3300 A	3760 A		
	IP > 31	750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A	2900 A	3340 A		
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10		
Number of busbars per phase		1	1	2	2	1	2	2	2	2	2		
Total number of vertical modules (50 mm)		3									4		
Cat. no.		04536	04538	04536	04538	04548	04545	04546	04548	04550	04552		
Busbar supports													
		 Fixed support 04664				 Free support 04662							
In cubicle: Prisma PH W700 with 75 mm distance between bars	Characteristics	2 fixed supports for Prisma PH 700 wide frame are compulsory. 1 fixed support for 300 wide frame are compulsory. If more supports are needed, add free supports.											
	Number of supports depending on l _{cw} (kA rms/1 s)	≤ 15	2										
		≤ 25	2+1	2									
		≤ 30	2+1	2									
		≤ 40	2+1	2									
		≤ 50	-	2+1						2			
		≤ 60	-					2+1					
		≤ 65	-					2+1					
		≤ 75	-					2+2		2+1			
	≤ 85	-					-		2+1				
	Cat. no.	Fixed support	04664				04664			04664 + 04671			
		Free support	04662				04662			04662 + 04671			
	In duct: Prisma PH W300 with 75 mm distance between bars	Number depending on l _{cw} (kA rms/1 s)	≤ 30	1									
			≤ 50	1+1				1					
≤ 85			-				1+1						
Cat. no. depending on depth		Fixed support	NSYBHS500 (D500) or NSYBHS800 (D800)				NSYBHS500 (D500) or NSYBHS800 (D800)			NSYBHS500 (D500) or NSYBHS800 (D800) + 04671			
		Free support	04662				04662			04662 + 04671			
In cubicle: Prisma PH W700 with 115 mm distance between bars	Number depending on l _{cw} (kA rms/1 s)	≤ 30	-				2						
		≤ 40					2+1		2				
		≤ 60					2+1						
		≤ 75					2+2		2+1				
		≤ 85					-		2+2		2+1		
	Cat. no.	Fixed support					NSYBHS800L			NSYBHS800L + 04671 (fixings)			
		Free support					04678			04678 + 04671 (fixings)			
In duct: Prisma PH W300 with 115 mm distance between bars	Number depending on l _{cw}	≤ 50	-				1						
		≤ 85					2						
	Cat. no.	Fixed support					NSYBHS800L			NSYBHS800L + 04671 (fixings)			
		Free support					04678			04678 + 04671 (fixings)			
Joints													
Installation in Prisma PH		Up to 1600 A				Up to 4000 A							
		1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase		2 vertical bars per phase					
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10		
Sliding joints with self-breaking lock nut		04640				04641							
													
Cat. no.		04640	04641	04640	04641	04641	04640	04640	04641	04641	04643		
Note		When installed at the bottom of a cubicle, the busbar must be partitioned.											

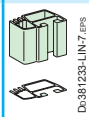
Linergy LGY profiles

In Prisma PH duct

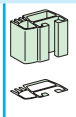
Linergy profile, 1670 mm length

Up to 1600 A (single busbar)

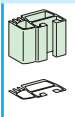
W300



DD381233-LIN-7 eps



DD381234-LIN-7 eps



DD381235-LIN-7 eps



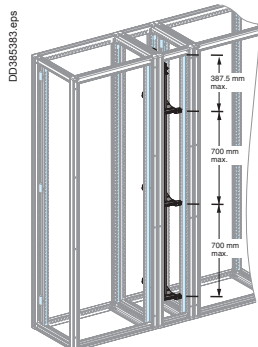
DD381236-LIN-7 eps



DD381237-LIN-7 eps

		630 A	800 A	1000 A	1250 A	1600 A
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		04502	04503	04504	04505	04506

Busbar supports



Characteristics

Number depending on I_{cw} (kA rms/1 s)

≤ 25

≤ 30

≤ 40

≤ 50

≤ 60

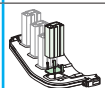
≤ 65

≤ 75

≤ 85



Fixed support **04651**



DD380742-LIN-12 eps

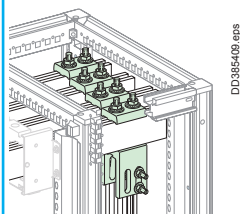
An end stop must be fitted on the bottom support:
01109 (sold in lots of 12)

≤ 25	3				
≤ 30	-	3			
≤ 40	-		3		
≤ 50	-			4	
≤ 60	-			5	
≤ 65	-				5
≤ 75	-				7
≤ 85	-				8

Cat. no.

04651 (set of 2 upright adapters **06502** for installation in Prisma PH cubicle)

Connections to the Linergy BS horizontal busbar



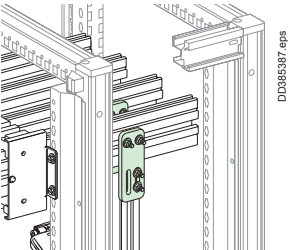
DD385409 eps

Characteristics

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

Cat. no	5 mm thick	04634	04635
according to horizontal busbar size	10 mm thick Width ≤ 80 mm	04636	
	Width > 80 mm	04636 + 04642	
		04638 + 04642	

Connections to the Linergy LGYE horizontal busbar



DD385387 eps

≤ 1600 A

Characteristics

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

Cat. no.	04602 (vertical connection) 04603 (vertical shifted connection) ⁽¹⁾
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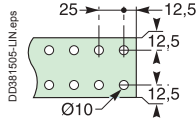
⁽¹⁾ Dedicated connection 04603 for Linergy LGYE busbar in 150 mm duct with horizontal jointing.

Linery LGYE profiles													
			Up to 4000 A										
In Prisma PH duct			W300										
Linery profile, 2000 mm length													
Permissible current for an ambient temperature of 35 °C around the switchboard			IP ≤ 31		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
			IP > 31		530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3620
Length to cut for side mounting			1675 mm										
Number of profiles per phase			1										
Cat. no.			04560	04561	04562	04563	04564	04565	04566	04567	04568		
Busbar supports													
			Fixed support NSYBVS500		Free support 04662			Bottom support NSYAS500					
Characteristics			3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).										
Number depending on l _{cw} (kA rms/1 s)			3										
≤ 30			-										
≤ 40			3+2										
≤ 50			3										
≤ 60			3										
≤ 65			3										
≤ 75			3+2										
≤ 85			3+4										
≤ 100			3+6										
Cat. no. of supports depending on distance between bars and duct depth			Prisma PH duct 75 mm distance between bars	W300, D500	NSYBVS500 (fixed) + 04662 (free) + NSYAS500 (spacer) ⁽¹⁾								
			Prisma PH duct 115 mm distance between bars	W300, D800	NSYBVS800 (fixed) + 04662 (free) + NSYAS800 (spacer) ⁽¹⁾								
			Prisma PH duct 115 mm distance between bars	W300, D800	NSYBVS800L (fixed) + 04678 (free) + NSYAS800L (spacer) ⁽¹⁾								
⁽¹⁾ If using a 100 x 10 bars, add a pack of screws ref. 04671 for each fixed support and free support.													
Wedging busbars in position													
			Wedge fitted on bottom support					Wedge fitted on bottom support					
			Wedge fitted on bottom support		Wedge fitted on bottom support			Wedge fitted on bottom support					
Characteristics			The bottom support is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.										
Cat. no.			04666 04658 (pack of 12 stops)				04666 04659 (pack of 12 replacement stops)						
Connections to the Linery LGYE horizontal busbar													
			2000/2500 A					3200/4000 A					
			2000/2500 A		3200/4000 A			3200/4000 A					
Characteristics			Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.										
Cat. no.			04604 (short connection) 04605 (long connection)				04607						

Flat busbars

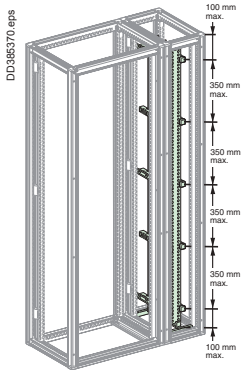
In Prisma PH duct

Pre-slotted copper,
1675 mm length



		Up to 1600 A				Up to 3200 A							
		W300 D500/800				W300 D500/800							
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3200 A	
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A	
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	
Number of busbars per phase		1		2		1		2					
Cat. no.		04516	04518	04516	04518	04525	04526	04528	04525	04526	04528	04550 ⁽¹⁾	

Busbar supports



Description

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

Number of supports depending on l_{cw} (kA rms/1 s)

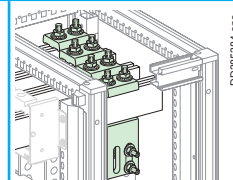
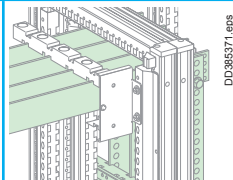
≤ 15	3	3
≤ 25	3+2	3
≤ 30	3+2	3
≤ 40	3+4	3+2
≤ 50	3+4	3+2
≤ 60		3+2
≤ 65		3+2
≤ 75		3+6
≤ 85		3+4

Cat. no. of supports depending on distance between bars and duct depth	Prisma PH duct 75 mm distance between bars	W300, D500	NSYBVS500 (fixed) + 04662 (free) + NSYAS500 (spacer) ⁽²⁾
	Prisma PH duct 115 mm distance between bars	W300, D800	NSYBVS800 (fixed) + 04662 (free) + NSYAS800 (spacer) ⁽²⁾
	Prisma PH duct 115 mm distance between bars	W300, D800	NSYBVS800L (fixed) + 04678 (free) + NSYAS800L (spacer) ⁽²⁾

⁽¹⁾ Copper bar without holes.

⁽²⁾ If using a 100 x 10 bars, add a pack of screws ref. 04671 for each fixed support and free support.

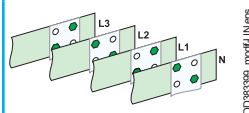
Connections to the Lineryg BS horizontal busbar



Characteristics

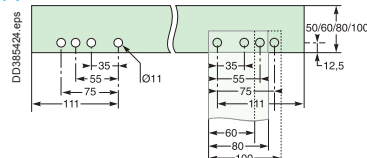
For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances. ⁽³⁾

References 04636, 04637, 04638 are supplied individually: 1 connection per phase.
Reference 04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.

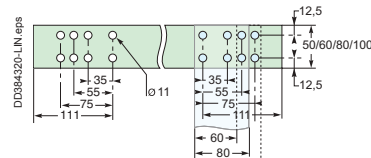


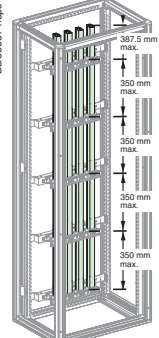
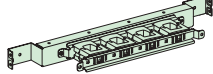
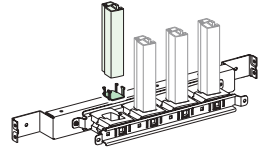
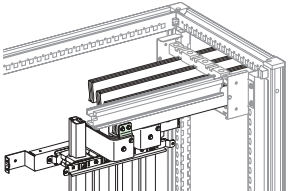
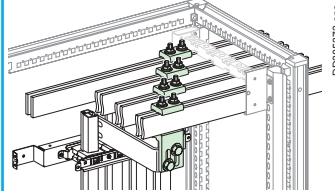
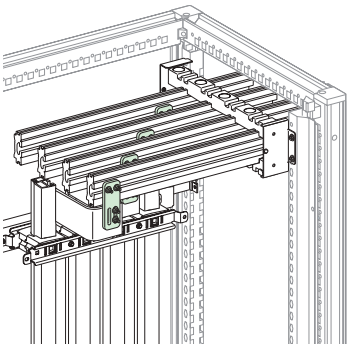
		1 vertical bar per phase		2 vertical bars per phase		1 vertical bar per phase		2 vertical bars per phase		
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	
Cat. no. of the connection piece depending on horizontal busbar size	≤ 80 mm	04645		04645		04636	04637	04637	04637	04645
	> 80 mm	04645		04645		04636 + 04642	04637 + 04642	04637 + 04642	04638 + 04642	04645

⁽³⁾ Drill hole dimensions for 5 mm thick horizontal busbars.

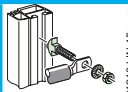
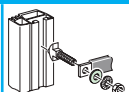


Drill hole dimensions for 10 mm thick horizontal busbars.

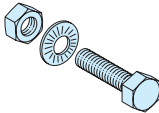


Linergy LGY profiles						
		Up to 1600 A				
At the rear of a Prisma PH cubicle		W700				
Linergy profile, 1670 mm length		 DD381233-LIN-7.eps	 DD381234-LIN-7.eps	 DD381235-LIN-7.eps	 DD381236-LIN-7.eps	 DD381237-LIN-7.eps
		630 A	800 A	1000 A	1250 A	1600 A
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		04502	04503	04504	04505	04506
Busbar supports						
	 DD381242-LIN.eps					
	Fixed support 04652					
	Number	≤ 25	3			
	depending on I _{cw}	≤ 30	4			
	(kA rms/1 s)	≤ 40	5			
		≤ 50	7			
Characteristics		 DD381243-LIN.eps		An end stop must be fitted on the bottom support 01109 (sold in lots of 12)		
Cat. no.		04652				
Connections to the Linergy BS horizontal flat busbar						
		 DD385372.eps		 DD385373.eps		
		04635 connection to 5 mm thick horizontal busbar		04636 connection to 10 mm thick horizontal busbar		
Characteristics		Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.				
Cat. no. according to horizontal busbar size	5 mm thick	04635				
	10 mm thick	04636				
	Width ≤ 80 mm	04636				
	Width > 80 mm	04636 + 04642				
Connections to the Linergy LGYE horizontal flat busbar						
		 DD385375.eps				
		04602 connection to the Linergy LGYE horizontal flat busbar				
Characteristics		Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.				
Cat. no.		04602				

Accessories

		 DD381216-LIN-15 eps	 DD381216-LIN-15 eps	 DD381222-LIN-10 eps
		Linergy screw	Plain washer	Identification
Linergy screw	Characteristics	Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.		
	Cat. no.	25 mm length	see the table "Connections on Linergy LGYE & LGY" below	
		39 mm length		
Steel plain washers	Characteristics	M8 sold in lots of 20		
	Cat. no.	ext. Ø20 mm	04772	
		ext. Ø24 mm	04773	
		ext. Ø28 mm	04774	
Brass plain washers	Characteristics	M8 sold in lots of 20 for connection of ≤ 25 mm² lugs to Linergy		
	Cat. no.	ext. Ø20 mm	04775	
Identification	Characteristics	12 clip-on supports + N, L1, L2, L3, PE, PEN labels		
	Cat. no.	04794		
	Characteristics	Linergy LGYE busbar screw plate kit after sales service		
	Cat. no.	01130		

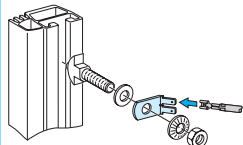
M8 bolts

		
		DD380727 eps
Linergy BS, 20 bolts 8.8 class	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers.
	Cat. no.	M8 x 20 04782
		M8 x 25 04783
		M8 x 30 04784
		M8 x 35 04785
		M8 x 40 04786
		M8 x 45 04787
		M8 x 50 04788

Torque nuts

		
		DD380735 eps
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Cat. no.	04759

Voltage tap-offs

		
		DD380736 eps
20 M10 voltage tap-offs for two 6.35 mm tab connectors	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. 04775) between the busbar and the lug.
	Cat. no.	04229



Connections on Linergy LGYE & LGY

InA (A)		Connection on Linergy	Utilisation	Cat no.	
0 to 630	Cable	Use the 25 mm Linergy screw	Recommended	04766	
	Insulated flexible bar	Use the 39 mm Linergy screw	Possible	04767 ⁽¹⁾	
800 to 1250	5 mm thick bar	Use the 25 mm Linergy screw	Recommended	04766	
		Use the 39 mm Linergy screw	Possible	04767 ⁽¹⁾	
		Use the flate plate screw with 2 studs	Possible	04768	
1600 to 2500	5 or 10 mm thick bar	Use the flate plate screw with 2 studs	Recommended	04768	
		Use the 39 mm Linergy screw	Possible	04767 ⁽¹⁾	
3200 to 4000	10 mm thick bar	Use the flate plate screw with 3 studs	Recommended	04769	

⁽¹⁾ **04767** is only compatible with Linergy LGY.

Catalogue numbers



Presentation

Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.

In most installations, Prisma PH cubicles do not require partitioning. In this case, the switchboard is a Form 1.

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

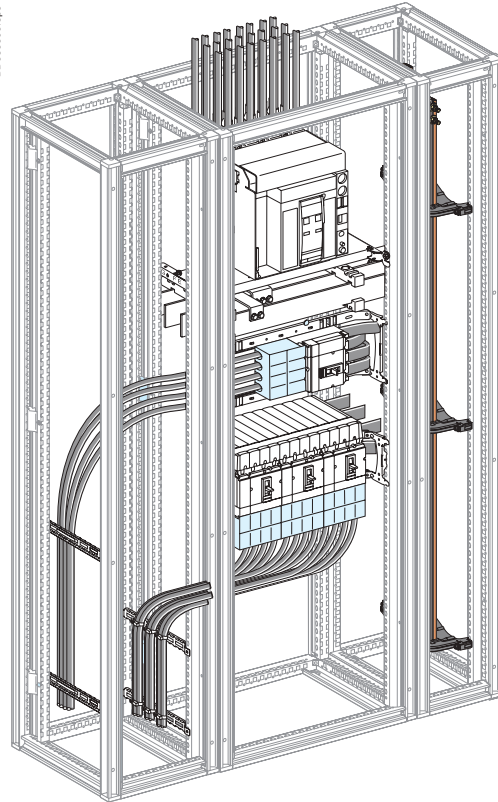
The protection of life and property is a standard feature due to:

- > front plates that require a tool to be removed
- > keylocks on doors, some of which provide access to live parts
- > the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors.

What is more, Prisma PH offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a & 4b electrical switchboards.

Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-1 and 2.

DD385303.eps



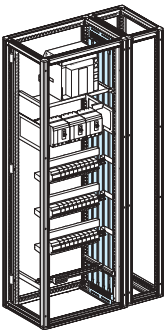
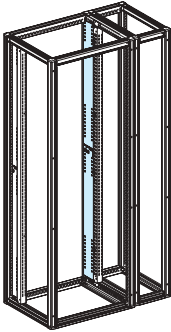
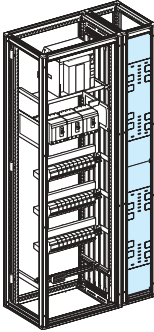
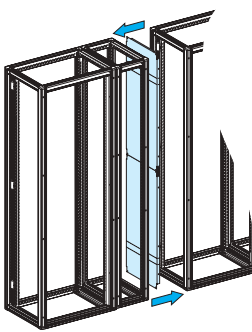
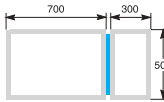
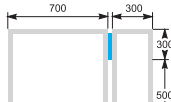
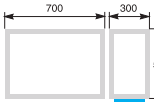
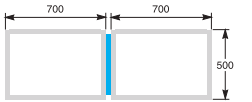
The protection of life and property is ensured by the systematic installation of terminal shields on Compact NSX circuit breakers and on Compact INS and INV switch-disconnectors (see the pages on the functional units).

Catalogue numbers

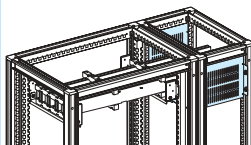
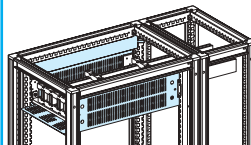
Form 2 partitioning

Separation of busbars from the functional units:

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

	Lateral partitioning	Form 2 restoration for side-barrier cut-out	Partitioning extension	Front and rear barrier	Inter-cubicle partitioning
					
	DD384407 eps		DD384408 eps	DD384409 eps	DD384410 eps
Schemes					
	DD383356 EPS		DD384441 eps	DD383360 EPS	DD383362 EPS
Characteristics	■ Vertical barrier made of insulating slats. ■ Can be installed on both sides of Linergy and flat busbars. ■ The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm², while maintaining the degree of protection IP2X compliance with standard IEC 60695.2.1 concerning withstand to fire.	■ This kit enables passage of the connection between a device > 1600 A (NW, INS) and lateral vertical busbars. ■ It is made up of an insulated plate (six modules H 300 mm) that can be cut as required, supplied with supports and the necessary hardware.	■ For the Prisma PH system switchboards 800 mm depth (500 + 300), a partitioning extension for 300 mm depth is required.	■ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends. ■ Rear protection, a barrier is required at the rear of the busbar compartment in cubicles that are 800, 1000 and 1300 mm deep.	■ Metal partition, used to separate two adjacent cubicles. ■ It is made up of two panels, each 850 mm high. ■ The top and bottom ends have knock-outs for horizontal busbars. ■ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.
Cat. no.	06545	04924	06543	06540	D 500: 06555 D 800: 04911 + 06543

Partitioning of horizontal busbars

				
	DD384412 eps		DD384411 eps	
	W300		W700	
Designation	■ Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard. ■ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle. ■ The space required for the busbars is not increased.			
For Depth	D500	D800	D500	D800
Cat. no. for 3M busbar	06560	06563	06570	06570
Cat. no. for 4M busbar	06568	06568	06567	06567

Note: when the busbars are at the bottom of the cubicle, gland plates are mandatory.

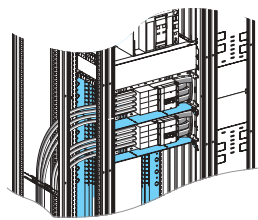
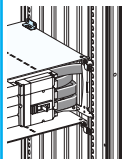
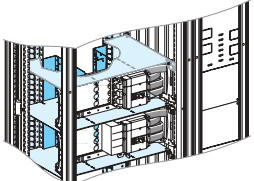
Catalogue numbers

Form 3 partitioning

Separation of busbars from the functional units and separation of all functional units from one another.

Separation of the terminals for external conductors from the functional units, but not from each other.

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

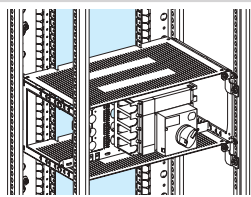
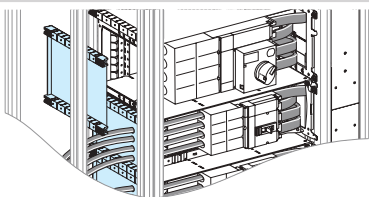
	Front connection		Rear connection	
				
	Horizontal metal partition, W650 mm	Rear support for partitions, W650 mm	6 universal angle brackets	Rear connection
Characteristics	■ A horizontal metal partition can be used to physically separate functional units from one another.	■ It is fixed at the rear by a support (two uprights) secured to the framework (500 mm deep) or to the intermediate uprights (800 mm deep frameworks).	■ A set of brackets can be used to install partial Form 3 partitioning in the cubicle. ■ It does not take up any useful space in the switchboard.	■ Vertical partitions (two cat. no. per functional unit)
			3 to 4 modules	5 to 6 modules
Cat. no.	04901	04943	03583	04955 04956

Catalogue numbers

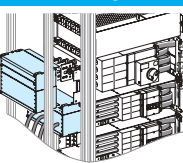
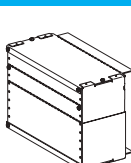
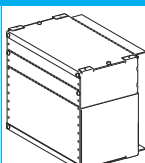
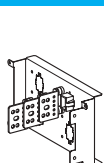
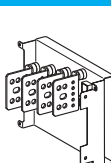
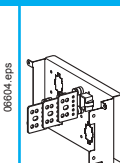
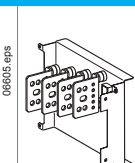
Form 4 partitioning

- Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit
- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.)
- Form 4a: terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Form 4a partition

For front connection	
	
Form 4a backplate (one cat. no. per cubicle)	Form 4a gland plate
Characteristics	■ a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks. ■ a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.
Cat. no.	3 or 4 modules 04951 5 or 6 modules 04952

Form 4b partition

						
		Connection transfer assembly, 3 to 5 modules, 250 A		Connection transfer assembly, 4 to 6 modules, 630 A		
Characteristics		■ a cover with metallic gland plates that can be easily cut out on the side and bottom. It is available in two heights : 3 to 5 modules 4 to 6 modules		■ Transfert assembly without connection to simplified the cable installation		■ Transfert assembly without connection to simplified the cable installation
				3P	4P	3P 4P
Cat. no.		06600	06601	06606	06607	06604 06605

Characteristics

Catalogue numbers

Common characteristics

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

Mounting		W700		W300		
Depth		D500	D800	D500 ⁽¹⁾	D500 Linergy ⁽²⁾	D800 ⁽³⁾
	Adapted uprights H2000 (set of 2)	06502 (x2)	06502	-	06502	-
	Adapted uprights + intermediary H2000 (set of 2)	-	06503	-	-	06503
	Uprights H2000 (set of 2)	-	-	06501 (x2)	06501	06501 (x2)
	2 frames + 2 flanges + 1 roof	06514	06515	-	-	-
	2 frames + 1 roof	-	-	06512	06512	06513
	Front panel ⁽⁴⁾⁽⁵⁾	06524	06524	06522	06522	06522
	Plain door Transparent door	06525	06525	-	-	-
	Rear panel ⁽⁶⁾	06537	06537	06533	06533	06533
	Side panel (Set of 2) ⁽⁷⁾	06535	06538	06535	06535	06538
	Hinged front plate support frame ⁽⁴⁾	08566	08566	-	-	-

⁽¹⁾ For cables management

⁽²⁾ To install Linergy LGY, LGYE, BS busbar

⁽³⁾ For cables and to install Linergy LGYE, BS busbar.

⁽⁴⁾ Reversible for left or right-hand opening.

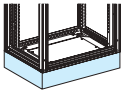
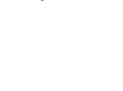
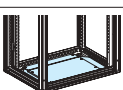
⁽⁵⁾ An earthing wire (08911) must be installed between the door and the frame.

To connect it, a M6 captive nut from the set cat. no. 06461 is required.

⁽⁶⁾ An earthing braid must be installed between the rear panel and the frame.

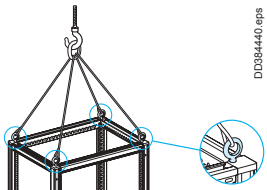
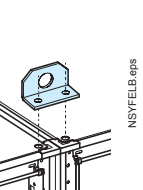
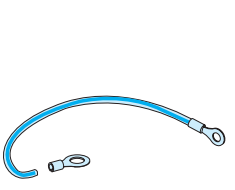
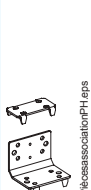
⁽⁷⁾ An earthing braid must be installed between the lateral panels and the frame.

Accessories

Width		W700		W300		
Depth		D500	D800	D500	D500 Linergy	D800
DD384428 eps	 Plinth H100 ⁽¹⁾	Front and rear cross-pieces	NSYSPF7100	NSYSPF7100	NSYSPF3100	NSYSPF3100
		Lateral cross-pieces	NSYSPS5100	NSYSPS8100	NSYSPS5100	NSYSPS8100
	 Plinth H200 ⁽¹⁾	Front and rear cross-pieces	NSYSPF7200	NSYSPF7200	NSYSPF3200	NSYSPF3200
		Lateral cross-pieces	NSYSPS5200	NSYSPS8200	NSYSPS5200	NSYSPS8200
DD384427 eps	 Plain gland-plates (IP55)		NSYEC751	NSYEC781	NSYEC351	NSYEC381

⁽¹⁾ The plinth is made up of two catalogue numbers: front and rear cross-pieces + lateral cross-pieces.

Other accessories

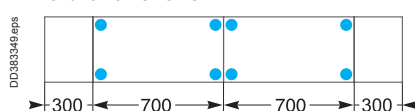
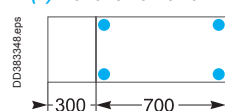
		 DD384440 eps	 NSYFELB eps	 DD384368 eps	 PicsassociationPH eps	 21716 couple eps
	Set of 20 screws + M6 nuts	4 lifting rings	4 lifting brackets	Earthing wire, 6 mm ²	Coupling kit	Earthing braid ⁽³⁾
Description		Use a set of lifting rings for each framework ⁽⁴⁾ (W700 mm) containing devices.	When two cubicles with devices have been combined, use a lifting beam.	The wire is equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. The earthing wire is used to earth: - a door or wicket door with devices - a front-plate support frame equipped with switchgear in a cubicle.	- side-by-side combination - back-to-back combination (2): - D500+D500 - D800+D500	- For NSYEL166D8: Length 160 mm, Section 6 mm², Terminal 8.3 mm. - For NSYEL3525D8: Length 350 mm, Section 25 mm², Terminal 8.3 mm.
Cat. No.	06461	NSYSFEB	NSYSFELB	08911	NSYSFBK19	NSYEL166D8 / NSYEL3525D8

⁽²⁾ Back to back association must be shipped individually and combined during on-site installation.

⁽³⁾ An earthing braid must be installed between the roof and the frame.

⁽⁴⁾ For one framework

For two frameworks



Characteristics

Catalogue numbers

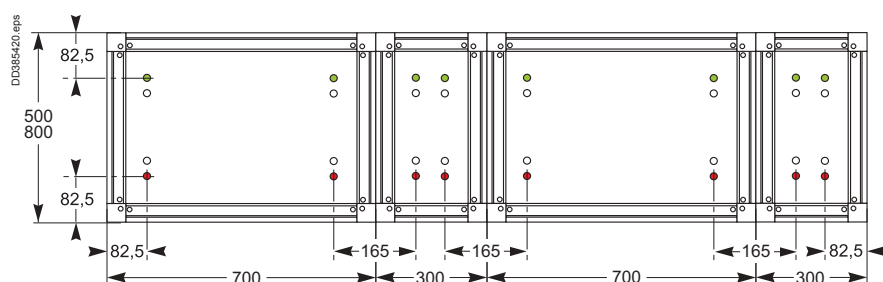
Seismic application 3G withstand

		1600 A configuration		3200 A configuration	
		Prisma PH	Busbar duct	Prisma PH	Busbar duct
Nominal dimensions	Height	2000	2000	2000	2000
	Width	700	300	700	300
	Depth	500	500	800	800
Additional dummy load (kg)		350	350	450	450
Seismic plinth H100 mm - Cat. no.		NSYS5GPC75	NSYS5GPC35	NSYS5GPC78	NSYS5GPC38

Note: incoming by pre-fabricated busbar trunking is forbidden for seismic application.

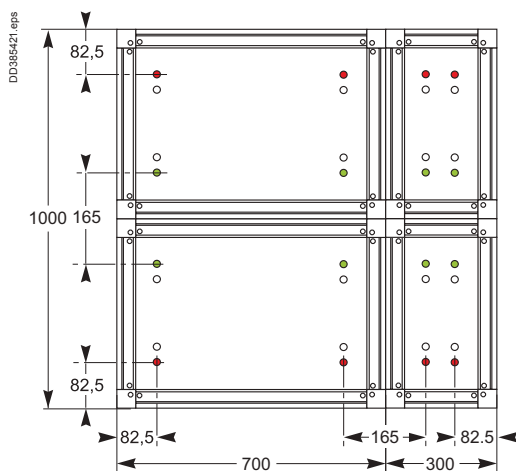
Ground fastening

■ Front connection (example: device cubicle W700 mm + compartment W300 mm)



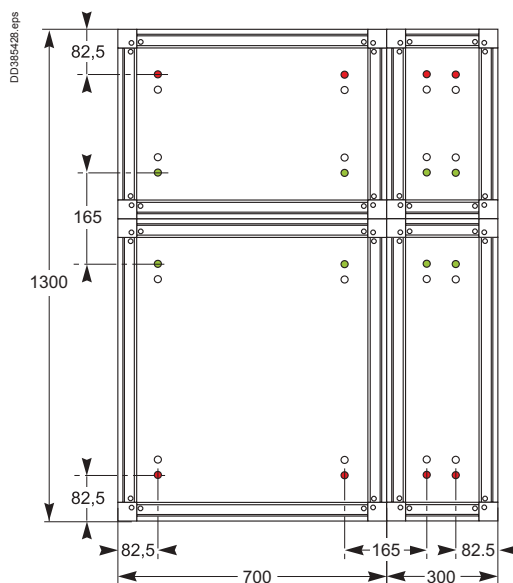
■ Rear connection D1000

(example: device cubicle + compartment D500 + D500 mm)



■ Rear connection D1300

(example: device cubicle + compartment D800 + D500 mm)



● compulsory fixing point

● optional fixing point

■ 8.8-class screws: screw M10 TH

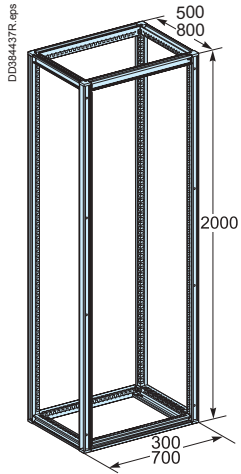
+ washers (external Ø 25 mm, thickness 3 mm)

+ CS contact washers Ø 10 mm.

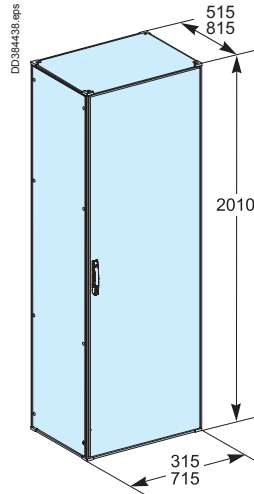
Dimensions

Cubicles

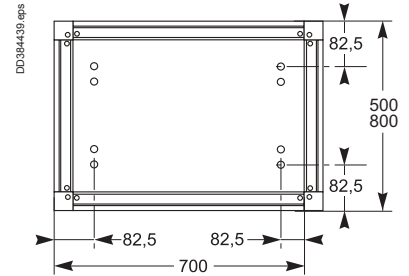
Profile



Cover panels, Plain or transparent door, lateral panels

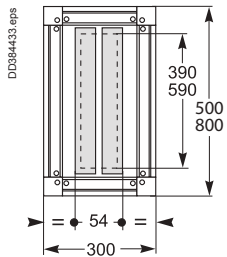


Fixing to floor

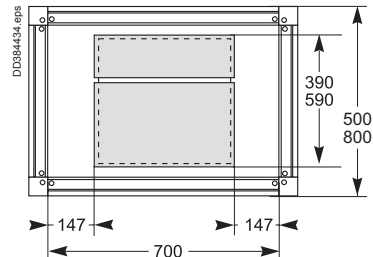


Gland plates

W300

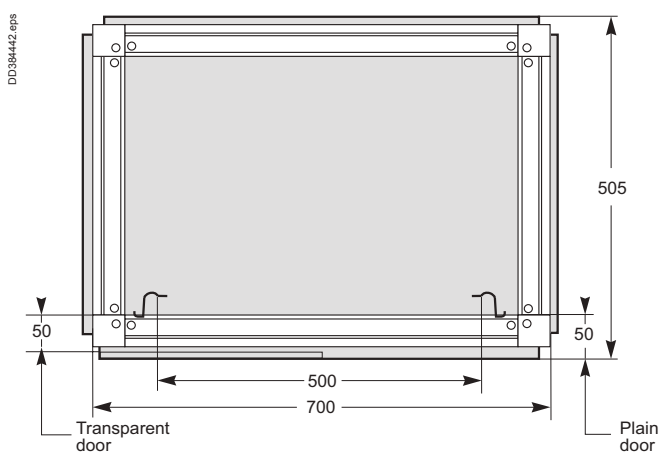


W700

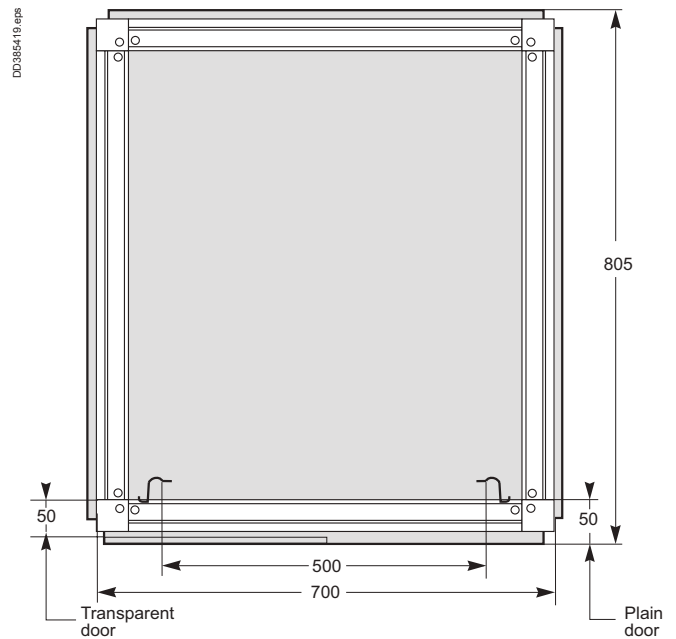


Functional system in PH system switchboards, cubicle mounting

D500



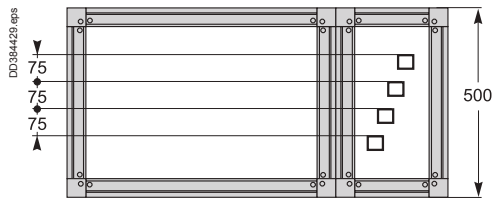
D800



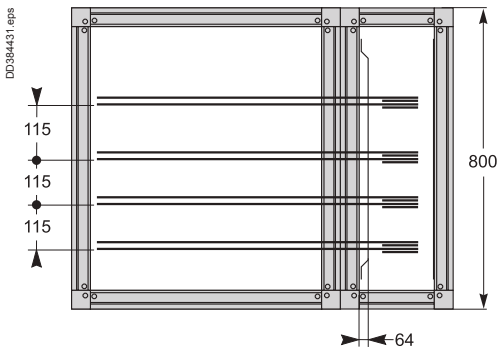
Dimensions

Busbars mounting, Lateral vertical busbars

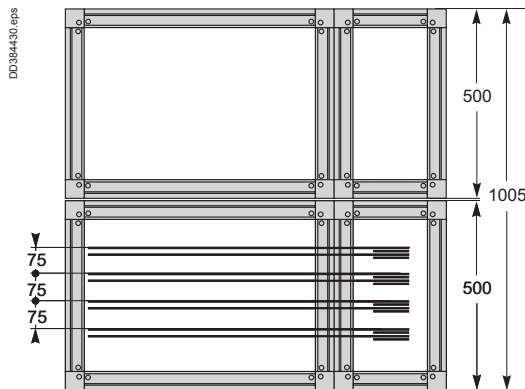
1600 A



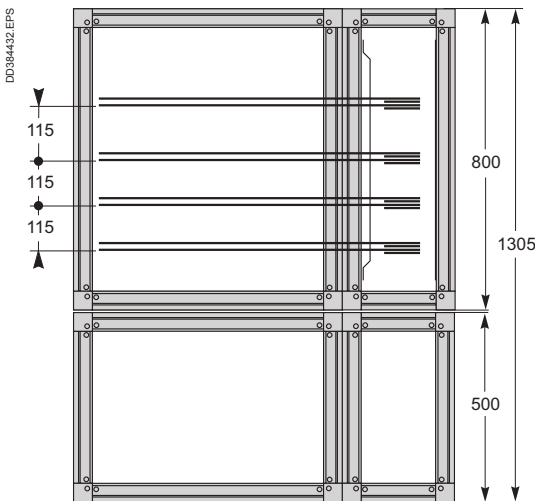
2500 A



2000 A



3200 A



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