

Low voltage
Catalogue | 2016-2017

Prisma P

Cubicles up to 4000 A





Content Prisma P

Index

Alphabetical index
> page 2

Catalogue number index
> page 17

Presentation

General overview
> page 30

IEC 61439 standard
> page 54

Determining catalogue numbers
> page 58

Prisma P functional system

Functional units
> page A-4

Circuit breakers
> p. A-4



Masterpact NW
> p. A-6
Masterpact NT
> p. A-13



Compact
NS630b/NS3200
> p. A-18
NSX100/630
> p. A-26



Easypact
CVS100/630
> p. A-41
EZC100/250/400
> p. A-45



Switch-disconnectors
> p. A-46

Compact
INS-INV630b/2500
> p. A-46
INS-INV250/630
> p. A-47

Others
> page A-69



Power factor
correction
equipment
> p. A-69



Industrial control
devices
> p. A-71



Metering
> p. A-72



Human-
switchboard
interface
> p. A-73

Linergy distribution and connection systems

Linergy
> page B-1

**General
presentation**
> p. B-2

Power busbars
> p. B-12



Linergy LGYE
> p. B-12, B-15
Linergy BS
> p. B-13, B-16
Linergy LGY
> p. B-14, B-17
Linergy busbars > p. B-19



Linergy BW
insulated busbar
> p. B-22



Rear Linergy BS
busbars
> p. B-24
Linergy BS
multi-stage
busbars in duct
> p. B-25

Prisma P enclosures

Enclosures
presentation
IP30, IP31, IP55
> page C-2



Cover
panels
> p. C-8

Cubicles > p. C-11



Frameworks
> p. C-11



IP30/31 cover
panels > p. C-13
IP55 cover panels
> p. C-15



Plinth, gland plates
> p. C-17
Cubicle handling & rolling
base, lifting reinforcement
kit for combined cubicles,
right-angle kit > p. C-18

Additional information

Spare parts
> page D-3

Energy efficiency
> page D-7

Electrical
characteristics
> page D-9

Standards
> page D-63

Prisma P functional system

p. A-1

Functional units
> page A-5

Modular devices

> p. A-48



Acti 9
> p. A-49
Incoming device
> p. A-50

Source-changeover systems

> p. A-51



Possible combinations > p. A-52
Masterpact NW08/32 > p. A-53
Masterpact NT06/16 > p. A-57
Compact NSX100/630, NS630b/1600
> p. A-60
Compact INS-INV > p. A-63

Fusegears

> p. A-65



Fupact ISFL > p. A-66
Fupact ISFT > p. A-67
Fupact INF > p. A-68



Reserve space
> p. A-76



Supports and fixing
accessories
> p. A-77



Switchboard lighting
> p. A-82

Others
> page A-69

Linergy distribution and connection systems

Distribution blocks

> p. B-28



Linergy DP > p. B-28
Linergy FC > p. B-30
Insulated flexible bars > p. B-32
Linergy DX > p. B-34
Linergy FM > p. B-36
Linergy DS > p. B-38
Linergy FH > p. B-40

Terminal blocks and lines

> p. B-47



Linergy TA > p. B-47
Linergy TB > p. B-48
Linergy TR > p. B-52

Partitioning

> p. B-54



Form 1 > p. B-55
Form 2 > p. B-57
Form 3 > p. B-59
Form 4 > p. B-61

p. B-1
Linergy
> page B-1

Prisma P enclosures

p. C-1



Installation accessories > p. C-19
Front plate accessories > p. C-20
Enclosure accessories > p. C-21
Ventilation accessories > p. C-23



Dimensions > p. C-28

Enclosure
characteristics
> page D-68

Thermal characteristics
of switchboards
> page D-77

Practical
information
> page D-85

Maintenance
> page D-101

Additional
information
p. D-1

Designation	Cat. no.	Pages
10 plates + 8P auxiliary connectors	LGY4231	B-47
10 plates + RJ45 female connector	LGY4230	B-47
12 adhesive label holders 24x180 W300	08905	C-20
12 adhesive label holders 24x432 width 600/650	08903	C-20
12 adhesive label holders 36x180 W300	08906	C-20
12 adhesive label holders 36x432 width 600/650	08904	C-20
12 clip-on labels 18x35	08913	C-20
12 clip-on labels 18x72	08915	C-20
12 clip-on labels 25x85	08917	C-20
12 engraving plates 18x35 /support 08913	08914	C-20
12 engraving plates 18x72 /support 08915	08916	C-20
12 engraving plates 25x85 /support 08917	08918	C-20
12 Linergy LGY busbar stops after sales service	01109	B-14, B-17, D-3
2 IPxxB clip-on cover Linergy BW	01201	B-22, D-3
4 divisible blanking plates W90	03221	A-49, A-50, C-20
4 IPxxB covers Linergy FM 200	01202	B-37, D-3
A		
Accessories for terminal blocks	NSYTRA-●●●	B-53
Accessory for closing, Prisma P	01105	D-6
Accessory for door or rear panel, IP55	01101	D-4
Accessory for framework, Prisma P	01104	D-3
Accessory for IP55 roof, Prisma P	01103	D-5
Accessory for IP55 side panel, Prisma P	01102	D-5
Accessory for quarter-turn closing front plate	01094	D-4
Accessory for rear panel, Prisma P	01106	D-4
Accessory for roof, Prisma P	01112	D-5
Accessory for side panel, Prisma P	01100	D-5
Adaptable support (10) for horiz. trunking	04256	A-80
Adapter, W = 250 mm, Prisma G	03596	A-40, A-78
Adapter, W = 500 mm, Prisma G	03595	A-72, A-78, B-23
Addit. block 2X35 ² 3P Linergy DP 250A	04155	B-28
Additi. block 2X35 ² 4P Linergy DP 250 A	04156	B-28
Additional neutral bar for screw distribution block - 100 A - 7 connections	LGYN1007	B-38
Additional neutral bar for screw distribution block - 125 A - 12 connections	LGYN12512	B-38
Additional neutral bar for screw distribution block - 125 A - 15 connections	LGYN12515	B-38
Additional partition of prefabricated connection LGYE W650 D600	04928	A-7, A-9, B-56
Additional partition of prefabricated connection W650 D600	04927	A-7, A-9, A-18, B-56
Additional mounting hardware for supports Linergy LGYE 3200 & 4000 A	04646	B-12, B-15
Adhesive drawing holder	08963	C-20
Angle brackets (4) + screws	03580	A-77
Arc chute screen NS630b/1600, 3P	33596	A-19, A-20, A-21, A-23
Arc chute screen NS630b/1600, 4P	33597	A-19, A-20, A-21, A-23
Arc chute screen NT 06/16, 3P	47335	A-13, A-14, A-16
Arc chute screen NT 06/16, 4P	47336	A-13, A-14
Auxiliary bus duct, 4P, W1755 Linergy MS	04203	B-47
B		
Barrel bloc with combination lock number 1242 E	07942	C-21
Barrel bloc with combination lock number 2432E	07956	C-21
Barrel bloc with combination lock number 2433A	07944	C-21
Barrel bloc with combination lock number 3113A	07943	C-21
Barrel bloc with combination lock number 405	07940	C-21
Barrel bloc with combination lock number 455	07941	C-21
Barrel lock no. 1242 E	08942	C-21
Barrel lock no. 2432E	08956	C-21
Barrel lock no. 2433 A	08944	C-21
Barrel lock no. 3113 A	08943	C-21
Barrel lock no. 405	08940	C-21
Barrel lock no. 455	08941	C-21
Barrier H100 mm for Linergy BS 400 A rear busbar	04198	B-24
Barrier H1500 mm for Linergy BS 630 A multistage busbar	04197	B-25
Blanking plate for ISFL160	03740	A-66
Blanking plate for ISFL630	03741	A-66
Blanking plate NSX/CVS 250-EZC100 vertical W147	03249	A-28, A-30, A-34, A-36, A-43, A-44, A-45, C-20
Blanking strip, W1000, H = 46 mm	03220	A-49, A-50, C-20
Bloc alimentation NSX/CVS/INS/INV 250	04060	B-23
Bolts (20) 8.8 class M6 x 20 for 5 mm bar	04194	B-27
Bolts (20) 8.8 class M8 x 20 /Linergy BS	04782	B-16, B-19
Bolts (20) 8.8 class M8 x 25 /Linergy BS	04783	B-19
Bolts (20) 8.8 class M8 x 30 /Linergy BS	04784	B-19
Bolts (20) 8.8 class M8 x 35 /Linergy BS	04785	B-19
Bolts (20) 8.8 class M8 x 40 /Linergy BS	04786	B-19
Bolts (20) 8.8 class M8 x 45 /Linergy BS	04787	B-19
Bolts (20) 8.8 class M8 x 50 /Linergy BS	04788	B-19
Bottom lateral 5/10 mm busbar support W300 Linergy LGYE/BS	04666	B-15, B-16
Bottom lateral vertical 5/10 mm busbar support D600 Linergy BS	04673	B-15, B-16
Bottom lateral vertical 5/10 mm busbar support Linergy LGYE/BS	04663	B-15, B-16

Designation	Cat. no.	Pages
Busbar cover for NW or ISFL, W = 650 mm	04860	A-11, A-66
Busbar mounting plate for ISFL160, 100 mm between centres	03545	A-66
Busbar mounting plate for ISFL630, 185 mm between centres	03546	A-66
C		
Cable connectors (4) 1P 160 A 70 mm ² for rear busbar Linergy BS	07051	B-27
Cable connectors (4) 1P 250 A 185 mm ² for rear busbar Linergy BS	07052	B-27
Cable connectors (4) 1P 400 A 300 mm ² for rear busbar Linergy BS	07053	B-27
Cable lug adapters INS-INV630b/1600, 3P	33644	A-13, A-16, A-19, A-23, A-46
Cable lug adapters INS-INV630b/1600, 4P	33645	A-13, A-19, A-23, A-46
Cables membrane 70 x 40 (x5)	01215	A-80
Cable tie supports (4), D = 400 mm	08794	A-16, A-23, A-81
Cable tie supports (4), D = 600 mm	08796	A-16, A-23, A-81
Cable tie supports (4), W = 300 mm	08773	A-81
Cable tie supports (4), W = 400 mm	08774	A-16, A-23, A-81
Cable tie supports (4), W = 650 mm	08776	A-81
Cable tie supports (4), W = 800 mm	08778	A-81
Canalis connection 1600 A NW 3P	04715	A-8
Canalis connection 1600 A NW 4P	04716	A-8
Canalis connection 2500 A NW 3P	04725	A-8
Canalis connection 2500 A NW 4P	04726	A-8
Canalis connection 3200 A NW 3P	04735	A-8
Canalis connection 3200 A NW 4P	04736	A-8
Canalis connection for front-connected NS-NT, 3P	04711	A-14, A-20
Canalis connection for front-connected NS-NT, 4P	04712	A-14, A-20
Canalis connection for rear-connected NS-NT, 3P	04713	A-14, A-20
Canalis connection for rear-connected NS-NT, 4P	04714	A-14, A-20
Canalis cover	04871	
Canalis interface, 1600 A, 3P	04703	A-14, A-20
Canalis interface, 1600 A, 4P	04704	A-14, A-20
Canalis support	03561	A-8, A-14, A-20
Captive nuts for M6 hexag. spacers (20)	03194	A-77
Class 2 insulating plate width 600/650	03154	A-72
Clip-nuts for DIN rails, 20 M4	03164	A-77
Clip-nuts for DIN rails, 20 M5	03165	A-77
Clip-nuts for DIN rails, 20 M6	03166	A-77
Clip-nuts for slotted mounting plates, 20 M4	03180	A-77
Clip-nuts for slotted mounting plates, 20 M5	03181	A-77
Clip-nuts for slotted mounting plates, 20 M6	03182	A-77
Comb busbar (W = 430 mm, 16 poles) 1P	14811	B-40
Comb busbar (W = 430 mm, 16 poles) 2P	14812	B-40
Comb busbar (W = 430 mm, 16 poles) 3P	14813	B-40
Comb busbar (W = 430 mm, 16 poles) 4P	14814	B-40
Comb busbar - 1 pole + N - 80 A 18 modules	19512	B-43
Comb busbar 12 mod. C60 Clario left	10545	B-43
Comb busbar 1P + N + Vigi 63 A, 56 modules	A9N21037	B-44
Comb busbar 1P + N 63 A, 56 modules	A9N21035	B-44
Comb busbar 1P 100 A, 12 mod., 18 mm	A9XPH112	B-41
Comb busbar 1P 100 A, 12 mod.	A9XPM112	B-42
Comb busbar 1P 100 A, 24 mod., 18 mm	A9XPH124	B-41
Comb busbar 1P 100 A, 57 mod., 18 mm	A9XPH157	B-41
Comb busbar 1P 100 A, 6 mod., 18 mm	A9XPH106	B-41
Comb busbar 1P 12 modules 63 A	R9XFH112	B-46
Comb busbar 1P 18 modules 63 A	R9XFH118	B-46
Comb busbar 1P 57 modules 63 A	R9XFH157	B-46
Comb busbar 1P 63A 57 mod	10388	B-45
Comb busbar 2P 100 A, 12 mod., 18 mm	A9XPH212	B-41
Comb busbar 2P 100 A, 12 mod.	A9XPM212	B-42
Comb busbar 2P 100 A, 24 mod., 18 mm	A9XPH224	B-41
Comb busbar 2P 100 A, 57 mod., 18 mm	A9XPH257	B-41
Comb busbar 2P 12 modules 63 A	R9XFH212	B-46
Comb busbar 2P 18 modules 63 A	R9XFH218	B-46
Comb busbar 2P 57 modules 63 A	R9XFH257	B-46
Comb busbar 2P 63 A 56 modules	10390	B-45
Comb busbar 3P + N + Vigi repart 63 A, 56 modules	A9N21038	B-44
Comb busbar 3P + N repart 63 A, 56 modules	A9N21036	B-44
Comb busbar 3P 100 A, 12 mod., 18 mm	A9XPH312	B-41
Comb busbar 3P 100 A, 12 mod.	A9XPM312	B-42
Comb busbar 3P 100 A, 24 mod., 18 mm	A9XPH324	B-41
Comb busbar 3P 100 A, 57 mod., 18 mm	A9XPH357	B-41
Comb busbar 3P 12 modules 63 A	R9XFH312	B-46
Comb busbar 3P 18 modules 63 A	R9XFH318	B-46
Comb busbar 3P 57 modules 63 A	R9XFH357	B-46
Comb busbar 3P 63 A 12 modules	10391	B-45
Comb busbar 3P 63 A 57 modules	10392	B-45
Comb busbar 3P and N 12 poles	21505	B-43
Comb busbar 3P and N 24 poles	21507	B-43
Comb busbar 48 mod. C60 Clario left	10546	B-43

Designation	Cat. no.	Pages
Comb busbar 48 mod. C60 Clario right	10547	B-43
Comb busbar 4P 100 A, 12 mod., 18 mm	A9XPH412	B-41
Comb busbar 4P 100 A, 12 mod.	A9XPM412	B-42
Comb busbar 4P 100 A, 24 mod., 18 mm	A9XPH424	B-41
Comb busbar 4P 100 A, 57 mod., 18 mm	A9XPH457	B-41
Comb busbar 4P 12 modules 63 A	R9XFH412	B-46
Comb busbar 4P 18 modules 63 A	R9XFH418	B-46
Comb busbar 4P 57 modules 63 A	R9XFH457	B-46
Comb busbar 4P 63A 54 modules	10395	B-45
Comb busbar 4P 63 A 56 modules	10394	B-45
Comb busbar 4P repar. 100 A, 12 mod.	A9XPH512	B-41
Comb busbar 4P repar. 100 A, 12 mod.	A9XPM512	B-42
Comb busbar 4P repar. 100 A, 18 mod.	A9XPH518	B-41
Comb busbar 4P repar. 100 A, 24 mod.	A9XPH524	B-41
Comb busbar 4P repar. 100 A, 57 mod.	A9XPH557	B-41
Comb busbar aux. 1P 100 A, 57 modules	A9XAH157	B-41
Comb busbar aux. 2P 100 A, 57 modules	A9XAH257	B-41
Comb busbar aux. 3P 100 A, 57 modules	A9XAH357	B-41
Comb busbar aux. 3P repar 100 A, 57 modules	A9XAH657	B-41
Comb busbar aux. 4P 100 A, 57 modules	A9XAH457	B-41
Comb busbar aux. 4P repar. 100 A, 57 modules	A9XAH557	B-41
Comb busbar balanced 4P 18 modules 63 A	R9XFH518	B-46
Comb busbar balanced 4P 57 modules 63 A	R9XFH557	B-46
Comb busbar coupler to supply 5 devices (joins 2-device + 3-device comb)	49890	A-67
Comb busbar Domae 1P 63 A W = 12 x 18 mm	10387	B-45
Comb busbar Domae 2P 63 A W = 12 x 18 mm	10389	B-45
Comb busbar Domae 4P 63 A W = 12 x 18 mm	10393	B-45
Comb busbar for DPN - 2P - 96 mod (9 mm)	21089	B-43
Comb busbar for DPN - 3P - 96 mod (9 mm)	21093	B-43
Comb busbar hog balanced 4P 18 modules 63 A	R9XFH518G	B-46
Comb busbar Libro - 1 pole + N - 80 A L = 18 x 18 mm	19516	B-43
Comb busbar PH and N 12 poles	21501	B-43
Comb busbar PH and N 24 poles	21503	B-43
Comb busbar to supply 2 devices - for ISFT100	49861	A-67
Comb busbar to supply 3 devices - for ISFT100	49862	A-67
Comb busbar to supply 4 devices - for ISFT100	49863	A-67
Connect. 100 A double terminal (set of 4)	A9XPCD04	B-41, B-42
Connect. 100 A monoconnect (set of 10)	A9XPCM04	B-41, B-42
Connecting part, 120 mm	04648	B-16
Connection 1000 A 5 mm horizontal busbar with Linergy LGY profile	04634	B-14
Connection 1600 A 10 mm horizontal busbar with Linergy LGY profile	04636	A-17, A-24, B-14, B-16, B-17, B-18, B-49
Connection 1600 A 5 mm horizontal busbar with Linergy LGY profile	04635	B-14, B-17, B-18
Connection 250 A for horizontal NSX-INS-INV -3P fixed/plugin, all control	04427	A-32, A-33, A-38, A-47
Connection 250 A for horizontal NSX-INS-INV -4P fixed/plugin, all control	04428	A-32, A-33, A-38, A-47
Connection 3200 A 10 mm horizontal busbar with Linergy BS vertical flat bar	04637	A-11, B-16
Connection 4000 A 10 mm horizontal busbar with Linergy BS vertical flat bar	04638	B-14, B-16
Connection 4P Linergy BS multistage busbar /Linergy FM distribution block 4P 200 A	04024	B-37
Connection 4P Linergy BW insulated busbar /Linergy FM distribution block 4P 200 A	04021	B-22, B-23, B-37
Connection adapter for plug-in base NSX100/250, Vigi NSX100/250 3P	LV429306	A-27, A-30, A-33, A-36, A-38, A-39, A-40, A-41, A-42
Connection adapter for plug-in base NSX100/250, Vigi NSX100/250 4P	LV429307	A-27, A-30, A-33, A-36, A-38, A-39, A-40, A-41, A-42
Connection adapter for plug-in base NSX400/630, Vigi NSX400/630, 3P	LV432584	A-27, A-31, A-33, A-37, A-38, A-39, A-40
Connection adapter for plug-in base NSX400/630, Vigi NSX400/630, 4P	LV432585	A-27, A-31, A-33, A-37, A-38, A-39, A-40
Connection cover for horiz. fixed NS1600	04842	A-21
Connection for horizontal fixed NS, 3P 1000A, on Linergy LGY	04473	A-21
Connection for horizontal fixed NS, 4P 1000 A, on Linergy LGY	04474	A-21
Connection for horizontal fixed NSX250 with toggle, 3P 250A, on Linergy LGY	04423	A-26
Connection for horizontal fixed NSX250 with toggle, 4P 250A, on Linergy LGY	04424	A-26
Connection for horizontal fixed NSX630 with toggle, 3P 630A, on Linergy LGY	04453	A-26
Connection for horizontal fixed NSX630 with toggle, 4P 630A, on Linergy LGY	04454	A-26
Connection for horizontal plug-in NSX250 with toggle, 3P 250A, on Linergy LGY	04431	A-27, A-38
Connection for horizontal plug-in NSX250 with toggle, 4P 250A, on Linergy LGY	04432	A-27, A-38
Connection for horizontal plug-in NSX630 with toggle, 3P 630A, on Linergy LGY	04461	A-27, A-38
Connection for horizontal plug-in NSX630 with toggle, 4P 630A, on Linergy LGY	04462	A-27, A-38
Connection for vertical fixed INS-INV, 3P 1600 A, on Linergy LGY	04481	A-46
Connection for vertical fixed INS-INV, 4P 1600 A, on Linergy LGY	04482	A-46
Connection for vertical fixed NS, 3P 1250 A, on Linergy LGY	04485	A-19, A-20
Connection for vertical fixed NS, 3P 1600 A, on Linergy LGY	04487	A-19, A-20
Connection for vertical fixed NS, 4P 1250 A, on Linergy LGY	04486	A-19, A-20
Connection for vertical fixed NS, 4P 1600 A, on Linergy LGY	04488	A-19, A-20
Connection for vertical fixed NT, 3P 1250 A, on Linergy LGY	04475	A-13, A-14
Connection for vertical fixed NT, 3P 1600 A, on Linergy LGY	04489	A-13, A-14
Connection for vertical fixed NT, 4P 1250 A, on Linergy LGY	04476	A-13, A-14
Connection for vertical fixed NT, 4P 1600 A, on Linergy LGY	04490	A-13, A-14
Connection for vertical withdrawable NS/NT, 3P 1250A, on Linergy LGY	04477	A-13, A-14, A-19, A-20
Connection for vertical withdrawable NS/NT, 3P 1600 A, on Linergy LGY	04491	A-13, A-14, A-19, A-20
Connection for vertical withdrawable NS/NT, 4P 1250A, on Linergy LGY	04478	A-13, A-14, A-19, A-20

Designation	Cat. no.	Pages
Connection for vertical withdrawable NS/NT, 4P 1600 A, on Linergy LGY	04492	A-13, A-14, A-19, A-20
Connection plates (2) for horizontal/vertical PE bars Linergy TB	04672	B-49
Connection prefabricated horizontal 580mm with Linergy LGYE for NW 1600 A 3P	04493	A-7, A-9
Connection prefabricated horizontal 580mm with Linergy LGYE for NW 1600 A 4P	04494	A-7, A-9
Connection prefabricated horizontal 580mm with Linergy LGYE for NW 2500 A 3P	04495	A-7, A-9
Connection prefabricated horizontal 580mm with Linergy LGYE for NW 2500 A 4P	04496	A-7, A-9
Connection prefabricated horizontal 580mm with Linergy LGYE for NW 3200 A 3P	04497	A-7, A-9
Connection prefabricated horizontal 580mm with Linergy LGYE for NW 3200 A 4P	04498	A-7, A-9
Connections (4) Linergy BS rear busbar /Lineray FM distribution block 4P 200 A	04029	B-37
Connections (4) NG125/Lineray DX distribution block 4P 125A	04047	B-34
Connections (4) NG160/Lineray FM distribution block 4P 160A	04030	B-37
Connections 160 A 4P L380 /Lineray DX 1P	04149	B-34
Connections 160 A 4P Linergy BW/device 160 A W165	04147	B-23
Connections 160 A 4P Linergy BW/device 160 A W440	04148	B-23
connection support, 115 mm between centres	04694	A-6, A-8, A-10, A-18, A-46
Connection support, 70 mm between centres	04693	A-13, A-14, A-19, A-20
Connection transfer assembly in duct for fixed horizontal NS1000, 3P	04483	A-21
Connection transfer assembly in duct for fixed horizontal NS1000, 4P	04484	A-21
Connection transfer assembly in duct for fixed horizontal NSX250 with toggle, 3P	04425	A-26
Connection transfer assembly in duct for fixed horizontal NSX250 with toggle, 4P	04426	A-26
Connection transfer assembly in duct for fixed horizontal NSX630 with toggle, 3P	04455	A-26
Connection transfer assembly in duct for fixed horizontal NSX630 with toggle, 4P	04456	A-26
Connectors 63A (set of 4)	R9XFC04	B-46
Conversion kit for direct connection to busbars Fupact ISFL160	LV480854	A-66
Copper connection 250 A vertical 4P/universal power supply W300	04064	B-23
Copper connection 250 A vertical 4P/universal power supply W600	04062	B-23
Copper connection NSX/CVS/INS-INV 630 4P/universal power supply	04073	B-23
Copper joint on profile Linergy vertical LGY/LGYE 1600 A for connection NT/NW 3P	04683	A-7, A-9
Copper joint on profile Linergy vertical LGY/LGYE 1600 A for connection NT/NW 4P	04684	A-7, A-9
Copper joint on profile Linergy vertical LGYE 2500 A for connection NW	04685	A-7, A-9
Copper joint on profile Linergy vertical LGYE 3200 A for connection NW	04687	A-7, A-9
Couplage inverseurs de source NSX100/250 - 3P	LV429358	A-61, A-62
Couplage inverseurs de source NSX100/250 4 P, INS-INV250 3/4P	LV429359	A-61, A-62, A-63, A-64
Cover, IP55 cut-out 125 x 125 mm	NSYCAP125LE	C-23
Cover, IP55 cut-out 223 x 223 mm	NSYCAP223LE	C-23
Cover, IP55 cut-out 291 x 291 mm	NSYCAP291LE	C-23
Cover for vertical NS1600-NT, 3P, W = 400 mm	04855	A-17, A-24
Covers (2) for vertical cable strap, W = 1000 mm	04263	A-80
Covers for horizontal cable straps (4)	04243	A-80
CS frame bot. x-member W150 + 650	01117	D-6
CS frame bot. x-member W400	01115	D-6
CS frame bot. x-member W650 + 150	01118	D-6
CS frame bot. x-member W650	01116	D-6
Cubicle handling plinth end-pieces (2), D = 400 mm	08714	C-18, D-96
Cubicle handling plinth end-pieces (2), D = 600 mm	08716	C-18, D-96
Cu connections 125 A 4P W230 with 35° ferrule + 45° angle lug	04145	B-23
Cu connections 160a 4P W250 with 45° ferrule + 45° angle lug	04146	B-23
D		
Dedicated front plate NW CSP 1/3	03709	A-12
DIN double bar insert	08945	C-21
Direct earth bar 12 x 3 mm with 1 terminal 35° W330 Linergy TB	04201	B-48
Distribution connector 3 x 10 mm ² (set of 3) - for ISFT100	49860	A-67
Door with cut-outs for power factor correction equipment, W = 650 mm	03970	A-70
Double depth combination kit	08719	C-12
Double thermostat	NSYCCOTH	C-27
Downstream coupling accessories, 3P, NSX400/630	LV432619	A-61, A-62
Downstream coupling accessories, NSX400/630 4P, INS-INV320/630 3/4P	LV432620	A-61, A-62, A-63, A-64
Drilled vertical flat bar Linergy BS 50x10 L1675	04525	B-16, B-18
Drilled vertical flat bar Linergy BS 60x10 L1675	04526	B-16, B-18
Drilled vertical flat bar Linergy BS 60x5 L1675	04516	B-16, B-18
Drilled vertical flat bar Linergy BS 80x10 L1675	04528	B-16, B-18
Drilled vertical flat bar Linergy BS 80x5 L1675	04518	B-16, B-18
DS Distribution Block 1P 125 A, 10 holes	LGY112510	B-38
DS Distribution Block 1P 160 A, 13 holes	LGY116013	B-38
DS Distribution Block 1P 250 A, 14 holes	LGY125014	B-38
DS Distribution Block 4P 100 A, 4 x 7 holes	LGY410028	B-38
DS Distribution Block 4P 125 A, 4 x 12 holes	LGY412548	B-38
DS Distribution Block 4P 125 A, 4 x 15 holes	LGY412560	B-38
DS Distribution Block 4P 160 A, 4 x 12 holes	LGY416048	B-38
E		
Earth bar (2) with 1 terminal 35° and 20 clamps W200 Linergy TB	04202	B-48
Earth bar with 1 terminal 35° and 40 clamps W450 Linergy TB	04200	B-48
Earth block (4) 12 x 4 ² quick connection Linergy TB	04214	B-48
Earth block (4) 3 x 16 ² quick connection Linergy TB	04215	B-48
Earthing braid, 6 mm ²	08910	C-21
Earthing wire, 6 mm ²	08911	C-21
Electronical Hygrostat 230 V	NSYCCOY230VID	C-27

Designation	Cat. no.	Pages
Electrical thermostat 230 V	NSYCCOTH230VID	C-27
End Caps 1P (set of 10)	R9XE110	B-46
End Caps 1P + N (set of 20)	A9N21039	B-44
End Caps 2P (set of 10)	R9XE210	B-46
End Caps 3P (set of 10)	R9XE310	B-46
End Caps 3P + N (set of 20)	A9N21040	B-44
End Caps 4P (set of 10)	R9XE410	B-46
End cover for comb busbar 3P (set of 10)	10399	B-45
Escutcheon collar NSX100/630, CVS100/250	LV429285	A-32, A-33, A-34, A-35, A-36, A-37, A-38, A-39, A-42, A-44
Escutcheon collar NSX100/630	LV429284	A-38, A-39
Escutcheon collar NSX400/630, Vigi NSX400/630	LV432534	A-38, A-39, A-40
Escutcheon collar Vigi CVS400/630	LV429527	A-42
EURO handle without insert	08932	C-21
F		
False floor fixing kit	08703	C-19
Filterfan 165 m ³ /h 230 V	NSYCVF165M230PF	C-23
Filterfan 300 m ³ /h 230 V	NSYCVF300M230PF	C-23
Filterfan 38 m ³ /h 230 V	NSYCVF38M230PF	C-23
Filterfan 560 m ³ /h 230 V	NSYCVF560M230PF	C-23
Filterfan 850 m ³ /h 230 V	NSYCVF850M230PF	A-70, C-23
Filterfan 85 m ³ /h 230 V	NSYCVF85M230PF	C-23
Filter standard G2 M1 cut-out 92 x 92 mm	NSYCAF92	C-23
Filter standard G2 M1 cut-out 125 x 125 mm	NSYCAF125	C-23
Filter standard G2 M1 cut-out 223 x 223 mm	NSYCAF223	C-23
Filter standard G2 M1 cut-out 291 x 291 mm	NSYCAF291	C-23
Fine filter G3 M1 cut-out 125 x 125 mm	NSYCAF125T	C-23
Fine filter G3 M1 cut-out 223 x 223 mm	NSYCAF223T	C-23
Fine filter G3 M1 cut-out 291 x 291 mm	NSYCAF291T	C-23
Flange for flat bars, W = 400 mm	04692	A-17, A-24
Flange for flat bars	04690	A-11
Flat plates with 2 studs (set of 12) + 24 torque nuts + 24 contact washers	04768	B-19
Flat plates with 3 studs (set of 8) + 24 torque nuts + 24 contact washers	04769	B-19
Flexible trunking for wiring to door	04235	A-80
Floor or wall fixing kit	08704	C-19
Font cover for ISFL, IP20, 185 mm between centres, W = 650 mm	03735	A-66
Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W300 mm, D400 mm	04973	B-58
Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W300 mm, D600 mm	04983	B-58
Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W400 mm, D400 mm	04974	B-58
Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W400 mm, D600 mm	04984	B-58
Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W650 mm, D400 mm	04976	B-58
Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W650 mm, D600 mm	04986	B-58
Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W800 mm, D400 mm	04978	B-58
Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W800 mm, D600 mm	04988	B-58
Form 2 cover for horizontal busbars LGYE 32/40 or BS 3200A, W400 mm, D600 mm	04964	B-58
Form 2 cover for horizontal busbars LGYE 32/40 or BS 3200A, W650 mm, D600 mm	04966	B-58
Form 2 cover for horizontal busbars LGYE 32/40 or BS 3200A, W800 mm, D600 mm	04968	B-58
Form 2 cover for horizontal busbars LGYE 32/40 or BS 4000A, W300 mm, D600 mm	04963	B-58
Form 2 front barrier for lateral vertical busbars, W = 300 mm	04920	B-58
Form 2 front barrier for lateral vertical busbars	04921	B-58
Form 2 restoration kit for side barrier cut-out	04924	B-58
Form 2 side barrier for lateral vertical busbars	04922	B-58
Form 3 horizontal partition	04901	B-60
Form 3 vertical partition for rear connection, 3 or 4 modules	04955	B-60
Form 3 vertical partition for rear connection, 5 or 6 modules	04956	B-60
Form 4 backplate for front connection, D = 600 mm	04946	B-62
Form 4b cover for connection transfer assembly in duct for 3 to 5 modules	04953	B-62
Form 4b cover for connection transfer assembly in duct for 4 to 6 modules	04954	B-62
Form 4 cable gland plate, for lateral or rear installation for 3 or 4 modules	04951	B-62
Form 4 cable gland plate, for lateral or rear installation for 5 or 6 modules	04952	B-62
Form C cable-tie support, W = 1600 mm	08783	A-81
Frame bot. cross-member W150 + 650	01121	D-6
Frame bot. cross-member W400	01119	D-6
Frame bot. cross-member W650 + 150	01122	D-6
Frame bot. cross-member W650	01120	D-6
Free 5/10 mm busbar support D600 Linergy BS	04678	A-6, A-8, B-12, B-13
Free support for vertical/horizontal busbar Linergy BS 5/10mm or Linergy LGYE	04662	A-7, A-9, A-13, A-14, A-17, A-18, A-19, A-20, A-24, A-46, B-12, B-13, B-15, B-16, B-18
Front connection cover for NW	04861	A-6, A-8, A-10, A-12, B-56
Front connection cover for vertical fixed NS1600	04851	A-19, A-20, B-56
Front connection cover for vertical NS1600-NT	04852	A-13, A-14, A-19, A-20, B-56
Front plate 12 push-button/lamps width 600/650 2m	03914	A-73, A-74
Front plate 1cut-out 144x144 +4 cut-out 72x72 metering dev/p-button width 600/650 4m	03912	A-73, A-74
Front plate 3-15 EZC100 vertical width 600/650 5m	03303	A-45
Front plate 3-4 NSX/ CVS250 vertical fixed toggle/rotary handle width 600/650 5m	03243	A-28, A-30, A-34, A-36, A-39, A-43, A-44
Front plate 3-4 Vigi NSX/ CVS 250 vertical fixed toggle width 600/650 7m	03241	A-28, A-30, A-43
Front plate 3-4 Vigi NSX/ CVS 250 vertical rotary handle/tel/plug-in w600 7m	03244	A-34, A-36, A-39, A-44

Designation	Cat. no.	Pages
Front plate 3 modular rows width 600/650 8m	03223	A-49
Front plate 72x72/96x96 cut-out for metering device/push-button width 600/650 3m	03904	A-73, A-74
Front plate change-over INS-INV 250 rotary handle width 600/650 5m	03235	A-63
Front plate changeover INS250 width 600/650 5m	03247	A-64
Front plate changeover NSX250 vertical rotary handle width 600/650 5m	03245	A-61
Front plate CVS 630 vertical fixed toggle width 600/650 9m	03273	A-43, A-45
Front plate EZC250 horizontal width 600/650 4m	03304	A-45
Front plate EZC250 vertical width 600/650 7m	03305	A-45
Front plate for fan or grill width 600/650 7m	03890	C-23
Front plate for fixed NW	03711	A-6, A-8, A-10, A-53, A-54, A-55, A-56
Front plate for horiz. INS-INV250	03617	A-47
Front plate for horiz. INS-INV630	03658	A-47
Front plate for horiz. NS250, with toggle, 3P	03611	A-41
Front plate for horiz. NS250, with toggle, 4P	03612	A-41
Front plate for horiz. NS630, with toggle, 3P	03651	A-41, A-45
Front plate for horiz. NS630, with toggle, 4P	03652	A-41, A-45
Front plate for horiz. NSX-INS630 source changeover with rotary handle	03659	A-61, A-63
Front plate for horiz. NSX250 source changeover with motor mechanism	03616	A-62
Front plate for horiz. NSX630 source changeover with motor mechanism	03656	A-62
Front plate for horiz. withdrawable NSX250	03618	A-38
Front plate for horiz. withdrawable NSX630	03657	A-38
Front plate for horizontal fixed NS1600 with toggle or rotary handle, 4P	03687	A-21
Front plate for horizontal INF200-250	03727	A-68
Front plate for horizontal INF400	03729	A-68
Front plate for horizontal INF630-800	03730	A-68
Front plate for horizontal INS630 complete source changeover assembly	03661	A-64
Front plate for horizontal NS1600 source changeover with rotary handle	03695	A-60
Front plate for INS1600, 3P	03713	A-46
Front plate for INS1600, 4P	03714	A-46
Front plate for INS2500, 3P or 4P	03715	A-46
Front plate for ISFL160, 185 mm between centres, W = 650 mm	03736	A-66
Front plate for NS3200	03716	A-18
Front plate for Powerlogic CM3000-4000	03918	A-75
Front plate for UA or BA	03671	A-53, A-54, A-55, A-56, A-57, A-58, A-59, A-62
Front plate for vertical fixed NS1600, 3P or 4P, W = 400 mm	03697	A-22
Front plate for vertical fixed NS1600, with motor mechanism	03701	A-19, A-20
Front plate for vertical fixed NS1600	03690	A-19, A-20
Front plate for vertical fixed NT, 3P, W = 400 mm	03698	A-15
Front plate for vertical fixed NT	03692	A-13, A-14, A-57, A-58, A-59
Front plate for vertical INF200-800	03728	A-68
Front plate for vertical INS-INV250	03620	A-47
Front plate for vertical NSX630	03663	A-29, A-31, A-35, A-37, A-39
Front plate for vertical NSX630 Vigi	03666	A-29, A-31, A-35, A-37, A-39
Front plate for withdrawable NS1600-NT, 3P, W = 400 mm	03699	A-15, A-22
Front plate for withdrawable NS1600-NT	03691	A-13, A-14, A-19, A-20, A-57, A-58, A-59
Front plate for withdrawable NW	03710	A-6, A-8, A-10, A-12, A-53, A-54, A-55, A-56
Front plate grips (20)	01093	D-4
Front plate hinge kit (2)	08585	C-20
Front plate INF32/40 3P vertical width 600/650 3m	03312	A-68
Front plate INF32 hz. 3/4P-INF32-40 v. 4P width 600/650 3m	03313	A-68
Front plate inf63-160 hz/v. 3/4p width 600/650 5m	03314	A-68
Front plate inf63 v.4p-inf160 v.3/4p width 600/650 5m	03315	A-68
Front plate INS250 vertical width 600/650 5m	03248	A-47
Front plate INS630 vertical width 600/650 10m	03274	A-47
Front plate ISFT100N vertical width 600/650 8m	03325	A-67
Front plate ISFT100 vertical width 600/650 6m	03320	A-67
Front plate ISFT160 vertical width 600/650 6m	03321	A-67
Front plate ISFT 250 vertical W650 9m	03322	A-67
Front plate ISFT 400 vertical W650 9m	03323	A-67
Front plate ISFT 630 vertical W650 8m	03324	A-67
Front plate NSX/CVS 250 vertical fixed toggle/rotary handle W300 9m	03253	A-40
Front plate NSX/CVS 630 vertical fixed rotary handle W300 12m	03283	A-40
Front plate NSX/CVS 630 vertical toggle/rotary handle/plug-in width 600/650 9m	03275	A-29, A-31, A-35, A-37, A-39, A-44
Front plate support frame, 12 Modules W = 650 mm	08562	A-12, C-11
Front plate support frame, W = 400 mm	08564	C-11
Front plate support frame, W = 650 mm	08566	C-11
Front plate support frame kit, 10 modules W = 650 mm	08560	A-12, C-11
Front plate support striker kit for Prisma P	01123	D-5
Front plate Vigiliohm XM200-300C width 600/650 6m	03932	A-75
Front plate Vigiliohm XM308-316 width 600/650 4m	03933	A-75
Front plate vigi NSX/CVS 630 vertical toggle/rotary handle W600 9m	03297	A-29, A-31, A-35, A-37, A-39
Front plate Vigi NSX250 vertical toggle W300 9m	03293	A-40
Front plate Vigi NSX630 vertical fixed toggle W300 10m	03299	A-40
Front plate Vigi NSX toggle / CVS rotary - 3P 250 A horizontal width 650 3 modules	03604	A-26, A-27, A-32, A-33, A-42
Front plate vigi NSX toggle / CVS rotary - 3P 630 A horizontal width 650 3modules	03643	A-26, A-27, A-32, A-33, A-42
Front plate Vigi NSX toggle / CVS rotary - 4P 250 A horizontal width 650 4 modules	03606	A-26, A-27, A-32, A-33, A-42
Front plate vigi NSX toggle / CVS rotary - 4P 630 A horizontal width 650 4 modules	03644	A-26, A-27, A-32, A-33, A-42

Designation	Cat. no.	Pages
Front plate with 1 cut-out 96x96 metering dev/p-button width 600/650 3m	03913	A-73, A-74, A-75
Front plate with 1 pre cut-out 96x96 W300 3m	03923	A-74, A-75
Front plate with 4 cut-out 96x96 metering dev/p-button width 600/650 3m	03911	A-73, A-74, A-75
Front plate with 6 cut-out 72x72 metering dev/p-button width 600/650 3m	03910	A-73, A-74
G		
Grommets for wiring through front (10)	04234	A-80
H		
Handle padlocking kit	08938	C-21
Handle padlocking kit for 2 lockers	07938	C-21
Handle without insert, ASSA-ABLOY	08933	C-21
Handling plinth, W = 1200 -> 1900 mm	08705	C-18, D-96
Handling plinth, W = 2000 -> 2550 mm	08706	C-18, D-96
Handling plinth, W = 2650 -> 3050 mm	08707	C-18, D-96
Hexag. spacers, H = 40 + 10 mm, 4 M8	03199	A-77
Hexagonal spacers, H = 23 mm, 4 M5	03186	A-77
Hexagonal spacers, H = 23 mm, 4 M6	03196	A-77
Hexagonal spacers, H = 25 mm, 4 M6	03198	A-77
Hexagonal spacers, H = 55 mm, 4 M6	03187	A-77
Hexagonal spacers, H = 55 mm, 4 M6	03197	A-77
Hexagonal spacers, H = 9 mm, 4 M5	03185	A-77
Hexagonal spacers, H = 9 mm, 4 M6	03195	A-77
Hinged front plate, 13 modules, W = 400 mm	03722	A-15, A-22
Hinged front plate for human-switchboard interface (HSI), 13 modules, W = 400 mm	03723	A-15, A-22
Horizontal 10 mm busbar support D600 Linergy BS	04665	B-12, B-13
Horizontal cable straps (12)	04239	A-80
Horizontal fixed busbar support for Linergy BS 5/10mm or Linergy LGYE	04664	B-12, B-13
Horizontal PE flat bar supports Linergy TB (2)	04667	A-77, B-49
Horizontal trunking sections (4), W = 450 mm, + supports	04257	A-80
Horizontal trunking supports (12)	04255	A-80
Hygrotherm 230 V	NSYCCOHT230VID	C-27
I		
Incoming connector (25 to 95 mm ²) for comb busbars (set of 3)	49865	A-67
Insert bloc combinaison 6.5mm male triangle	07947	C-21
Insert bloc combinaison 6mm female square	07955	C-21
Insert bloc combinaison 6mm male square	07951	C-21
Insert bloc combinaison 7mm male square	07952	C-21
Insert bloc combinaison 7mm male triangle	07948	C-21
Insert bloc combinaison 8mm male square	07953	C-21
Insert bloc combinaison 8mm male triangle	07949	C-21
Insert bloc combinaison 9mm male triangle	07950	C-21
Insert bloc combinaison DIN double bar	07945	C-21
Insert bloc combinaison screwdriver slot	07946	C-21
Insulated comb cover for free outgoer - for ISFT100	49864	A-67
Insulated connector for comb busbar 35 mm ² 63 A (set of 4)	10397	B-45
Insulated connectors (4)	21098	B-43
Insulated connectors for 25 mm ² cables (4)	14885	B-40
Insulated flexible bar 20 x 2 W1800	04742	B-32, B-33
Insulated flexible bar 20 x 3 W1800	04743	B-32, B-33
Insulated flexible bar 24 x 5 W1800	04746	B-32, B-33
Insulated flexible bar 32 x 5 W1800	04751	B-32, B-33
Insulated flexible bar 32 x 6 W1800	04752	B-32, B-33
Insulated flexible bar 32 x 8 W1800	04753	B-32, B-33
Insulated spacers (2) for neutral bar Linergy TB	04210	B-48
Inter-cubicle partition, D = 400 mm	04911	B-63
Inter-cubicle partition, D = 600 mm	04931	B-63
IP30 corner kit for Linergy BS	08713	C-14
IP30 corner kit for Linergy LGYE with fixed supports	08712	C-14
IP30 cover frame, W = 400 mm	08574	C-13
IP30 cover frame, W = 650 mm	08576	C-13
IP30 cover frame, W = 800 mm	08578	C-13
IP30 door with cut-out for human-switchboard interface, W = 300 mm	08593	C-13
IP30 door with cut-out for human-switchboard interface, W = 400 mm	08594	C-13
IP30 plain door, W = 300 mm	08513	C-13
IP30 plain door, W = 400 mm	08514	C-13
IP30 plain door, W = 650 mm	08516	C-13
IP30 plain door, W = 800 mm	08518	C-13
IP30 plain roof, W = 300 mm, D = 400 mm	08433	C-14
IP30 plain roof, W = 300 mm, D = 600 mm	08633	C-14
IP30 plain roof, W = 400 mm, D = 400 mm	08434	C-14
IP30 plain roof, W = 400 mm, D = 600 mm	08634	C-14
IP30 plain roof, W = 650 mm, D = 400 mm	08436	C-14
IP30 plain roof, W = 650 mm, D = 600 mm	08636	C-14
IP30 plain roof, W = 800 mm, D = 400 mm	08438	C-14
IP30 plain roof, W = 800 mm, D = 600 mm	08638	C-14
IP30 rear panel, W = 300 mm	08733	C-13
IP30 rear panel, W = 400 mm	08734	C-13
IP30 rear panel, W = 650 mm	08736	C-13

Designation	Cat. no.	Pages
IP30 rear panel, W = 800 mm	08738	C-13
IP30 reinforced plain door IK10 W650	01224	C-13
IP30 reinforced plain door IK10 W800	01225	C-13
IP30 side panels, D = 400 mm. Package of 2 for Left/Right	08750	C-14
IP30 side panels, D = 600 mm. Package of 2 for Left/Right	08760	C-14
IP30 transparent door, W = 400 mm	08534	C-13
IP30 transparent door, W = 650 mm	08536	C-13
IP30 transparent door, W = 800 mm	08538	C-13
IP30 ventilated front plate width 600/650 1m	03891	C-23
IP30 ventilated front plate width 600/650 3m	03895	C-23
IP30 ventilated roof without fans W650 D400	08476	C-25
IP40 escutcheon for Vigi module NSX100/250	LV429316	A-34, A-35, A-36, A-37
IP55 combination side panels (2), W = 400 mm	08756	C-16
IP55 cutout rear panel, W = 800 mm	08749	A-70
IP55 plain roof, W = 300 mm, D = 400 mm	08453	C-16
IP55 plain roof, W = 300 mm, D = 600 mm	08653	C-16
IP55 plain roof, W = 400 mm, D = 400 mm	08454	C-16
IP55 plain roof, W = 400 mm, D = 600 mm	08654	C-16
IP55 plain roof, W = 650 mm, D = 400 mm	08456	C-16
IP55 plain roof, W = 650 mm, D = 600 mm	08656	C-16
IP55 plain roof, W = 800 mm, D = 400 mm	08458	C-16
IP55 plain roof, W = 800 mm, D = 600 mm	08658	C-16
IP55 rear panel, W = 300 mm	08743	C-15
IP55 rear panel, W = 400 mm	08744	C-15
IP55 rear panel, W = 650 mm	08746	C-15
IP55 rear panel, W = 800 mm	08748	A-70, A-80, C-15
IP55 sealing kit for side-by-side combinations	08717	C-12
IP55 side panels, D = 400 mm. Package of 2 for Left/Right	08755	C-16
IP55 side panels, D = 600 mm. Package of 2 for Left/Right	08765	C-16
IP55 transparent door, W = 400 mm	08544	C-15
IP55 transparent door, W = 650 mm	08546	C-15
IP55 transparent door, W = 800 mm	08548	C-15
IP55 ventilated roof without fans W650 D600	08676	C-25
IP55 ventilated roof without fans W800 D400	08478	A-70, C-25
IP55 ventilated roof without fans W800 D600	08678	A-70, C-25
IPXXB connection covers (8)/lug with cable 10-25 ² for Linergy BW insulated busbar	04150	B-22
J		
Joint for 120 mm bar for Linergy BS horizontal busbar	04643	B-13
Joint for 50/60 mm bar/Linergy BS horizontal busbar	04640	A-7, A-9, B-13
Joint for 80/100 mm bar/Linergy BS horizontal busbar	04641	A-7, A-9, B-13
L		
Lateral cross-members (2), W = 200 mm, for D = 600 mm	03586	A-11, A-81
Lateral cross-members (2), W = 400 mm, for D = 400 mm	03584	A-11, A-81, B-50
Lateral tooth-caps - 2P	21094	B-43
Lateral tooth-caps - 3P	21095	B-43
Length adaptor Fupact ISFL160	LV480870	A-66
Levelling kit	08702	C-19
Lifting reinforcement kit	08722	C-18, D-96
Lifting rings (4)	08700	C-19
Linergy BS 4P multistage busbar block 160A 52 holes	04052	B-26
Linergy BS 4P multistage busbar block 250A 52 holes	04053	B-26
Linergy BS 4P multistage busbar block 400A 52 holes	04054	B-26
Linergy BS 4P multistage busbar block 630A 52 holes	04055	B-26
Linergy BS multistage busbar support 630 A	04192	B-25
Linergy BS rear busbar support 400 A	04191	B-24
Linergy BS rear vertical support for 5/10mm bar	04653	B-18
Linergy BW 3P IPXXB insulated busbar 125 A W450	04103	B-22
Linergy BW 3P IPXXB insulated busbar 125 A W750	04107	B-22
Linergy BW 3P IPXXB insulated busbar 160 A W1000	04111	B-22
Linergy BW 3P IPXXB insulated busbar 160 A W1400	04116	B-22
Linergy BW 3P IPXXB insulated busbar 250 A W1000	04112	B-22
Linergy BW 3P IPXXB insulated busbar 250 A W1400	04117	B-22
Linergy BW 3P IPXXB insulated busbar 400 A W1000	04113	B-22
Linergy BW 3P IPXXB insulated busbar 400 A W1400	04118	B-22
Linergy BW 3P IPXXB insulated busbar 630 A W1000	04114	B-22
Linergy BW 3P IPXXB insulated busbar 630 A W1400	04119	B-22
Linergy BW 4P IPXXB insulated busbar 125 A W450	04104	B-22
Linergy BW 4P IPXXB insulated busbar 125 A W750	04108	B-22
Linergy BW 4P IPXXB insulated busbar 160 A W1000	04121	B-22
Linergy BW 4P IPXXB insulated busbar 160 A W1400	04126	B-22
Linergy BW 4P IPXXB insulated busbar 250 A W1000	04122	B-22
Linergy BW 4P IPXXB insulated busbar 250 A W1400	04127	B-22
Linergy BW 4P IPXXB insulated busbar 400 A W1000	04123	B-22
Linergy BW 4P IPXXB insulated busbar 400 A W1400	04128	B-22
Linergy BW 4P IPXXB insulated busbar 630 A W1000	04124	B-22
Linergy BW 4P IPXXB insulated busbar 630 A W1400	04129	B-22
Linergy BW accessories 160 to 400 A	01210	B-22, D-3

Designation	Cat. no.	Pages
Linergy BW accessories 630 A	01211	B-22, D-3
Linergy DP 3P distribution block/Compact NSX/INS 250 A 27 holes	04033	B-28
Linergy DP 4P distribution block/Compact NSX/INS 250A 36 holes	04034	B-28
Linergy DX 1P distribution block 160A 4 modules 6 holes	04031	B-34
Linergy DX 4P 63 A (downstream distribution)	04041	B-34
Linergy DX 4P 63 A (upstream distribution)	04040	B-34
Linergy DX 4P distribution block 125A 6 modules 52 holes	04045	B-34
Linergy DX 4P distribution block for NG/INS160 160A 6M 52 holes	04046	B-34
Linergy FC distribution block for Compact NSX250 3P fixed/plug-in + connection	04405	A-30, A-34, A-36, B-30
Linergy FC distribution block for Compact NSX250 3P fixed W/O connection	04407	A-28, A-30, A-34, A-36, B-30
Linergy FC distribution block for Compact NSX250 3P toggle/fixed + connection	04403	A-28, B-30
Linergy FC distribution block for Compact NSX250 4P fixed/plug-in + connection	04406	A-30, A-34, A-36, B-30
Linergy FC distribution block for Compact NSX250 4P fixed W/O connection	04408	A-28, A-30, A-34, A-36, A-47, B-30
Linergy FC distribution block for Compact NSX250 4P toggle/fixed + connection	04404	A-28, A-47, B-30
Linergy FM 2P distribution block 200 A 24 modules 24 holes	04012	B-36
Linergy FM 3P distribution block 200 A 24 modules 42 holes	04013	B-36
Linergy FM 4P distribution block 160 A 12 modules 27 holes	04018	B-36
Linergy FM 4P distribution block 200 A 24 modules 54 holes	04014	B-36
Linergy FM 4P distribution block 200 A 36 modules 81 holes	04026	B-36
Linergy FM 4P distribution block 63 A 12 modules 20 holes	04008	B-36
Linergy FM 4P distribution block 80 A 24 modules 44 holes	04000	B-36
Linergy LGYE busbar screw plate kit after sales service	01130	B-19, D-4
Linergy LGYE horizontal joint 1600 A	04620	B-12
Linergy LGYE horizontal joint 2500 A	04621	B-12
Linergy LGYE horizontal joint 4000 A	04623	B-12
Linergy LGYE isolating screen neutral	04624	B-12
Linergy LGYE profile 1000 A for a vertical installation length 1670mm	04504	B-14, B-17
Linergy LGYE profile 1000 A length 2000mm	04562	B-12, B-15
Linergy LGYE profile 1250A for a vertical installation length 1670mm	04505	B-14, B-17, B-49
Linergy LGYE profile 1250 A length 2000mm	04563	B-12, B-15
Linergy LGYE profile 1600 A for a vertical installation length 1670mm	04506	B-14, B-17
Linergy LGYE profile 1600 A length 2000mm	04564	B-12, B-15
Linergy LGYE profile 2000 A for a vertical installation length 1625mm	04507	B-15
Linergy LGYE profile 2000 A length 2000mm	04565	B-12
Linergy LGYE profile 2500 A for a vertical installation length 1625mm	04508	
Linergy LGYE profile 2500 A length 2000mm	04566	B-12
Linergy LGYE profile 3200 A for a vertical installation length 1625mm	04509	
Linergy LGYE profile 3200 A length 2000mm	04567	B-12
Linergy LGYE profile 4000 A for a vertical installation length 1625mm	04510	
Linergy LGYE profile 4000 A length 2000mm	04568	B-12
Linergy LGYE profile 630 A for a vertical installation length 1670mm	04502	B-14, B-17, B-49
Linergy LGYE profile 630 A length 2000mm	04560	B-12, B-15
Linergy LGYE profile 800 A for a vertical installation length 1670mm	04503	B-14, B-17, B-49
Linergy LGYE profile 800 A length 2000mm	04561	B-12, B-15
Linergy LGYE vert. short connect. 2500 A	04604	B-15
Linergy LGYE vertical connection 1600 A	04602	B-14, B-15, B-17, B-49
Linergy LGYE vertical connection 4000 A	04607	B-15
Linergy LGYE vertical long connection 2500 A	04605	B-15
Linergy LGYE vertical shifted connection 1600 A	04603	B-14, B-15
Linergy LGY lateral busbar support	04651	B-14
Linergy LGY rear busbar support	04652	B-17
Linergy MS auxiliaries terminal block AU 10 IN/20 OUT	04228	B-47
Linergy TB PEN installation kit with LGY vertical profile	04656	B-49
Linergy TB set of 3 flat bar supports for PE vertical installation	04657	B-49
Locking kit NSX100/630	LV429286	A-38
Longitudinal cross-members (2), W = 650 mm	03587	A-81
Long rear connections NSX100/250, Vigi NSX100/250, 3-4P	LV429236	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47
Long rear connections NSX400/630, Vigi NSX400/630, INS-INV320/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630	LV432476	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47
Long terminal shield, 3P	33628	A-60
Long terminal shield, 4P	33629	A-60
Long terminal shield EZC100, 3P	EZATSHD3P	A-45
Long terminal shield EZC100, 4P	EZATSHD4P	A-45
Long terminal shield EZC250, 3P	EZETSHD3P	A-45
Long terminal shield EZC250, 4P	EZETSHD3PN	A-45
Long terminal shield EZC250, 4P	EZETSHD4P	A-45
Long terminal shield EZC250, 4P	EZETSHD4PN	A-45
Long terminal shield for spreaders, 3P, NSX400/630	LV432595	A-61, A-62
Long terminal shield for spreaders, 4P, NSX400/630	LV432596	A-61, A-62
Long terminal shield Fupact INF100/160	LV480445	A-68
Long terminal shield Fupact INF200	LV480551	A-68
Long terminal shield Fupact INF250	LV480553	A-68
Long terminal shield Fupact INF400	LV480555	A-68
Long terminal shield Fupact INF600/800	LV480557	A-68
Long terminal shield Fupact ISFT100N	LV480756	A-67
Long terminal shield Fupact ISFT160-3P	49869	A-67
Long terminal shield Fupact ISFT250-3P	49872	A-67

Designation	Cat. no.	Pages
Long terminal shield Fupact ISFT400	49875	A-67
Long terminal shield Fupact ISFT630	49876	A-67
Long terminal shield NSX100/250 3P	LV429517	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-61, A-62
Long terminal shield NSX100/250 4P, INS-INV250 3/4 P	LV429518	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47, A-61, A-62, A-63, A-64
Long terminal shields, 3P, NSX400/630, Vigi NSX400/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630, Easycompact EZC400/630	LV432593	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-45, A-61, A-62
Long terminal shields, 4P, NSX400/630, Vigi NSX400/630, INS-INV320/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630, Easycompact EZC400/630	LV432594	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-45, A-47, A-61, A-62, A-63, A-64
M		
M8/diameter 20 mm flat washers (20) for flexible bar Linergy LGY	04772	B-19
M8/diameter 20 mm flat washers (20) for lugs < 25° Linergy LGY	04775	B-19
M8/diameter 24 mm flat washers (20) for flexible bar Linergy LGY	04773	B-19
M8/diameter 28 mm flat washers (20) for flexible bar Linergy LGY	04774	B-19
M8 Linergy LGY bolts (20) for cable lugs/flexible bar W = 25 mm	04766	B-19, B-49
M8 Linergy LGY bolts (20) for copper bar W = 39 mm	04767	B-19
Mechanical interlocking for source changeover system NSX100/250	LV429369	A-61
Mechanical interlocking INS-INV250	31073	A-63
Mechanical interlocking INS-INV320/630	31074	A-63
Mechanical interlocking NS630b/1000, 3-4P	33890	A-60
Mechanical interlocking NSX400/630	LV432621	A-61
Metallic spacer (100) thickness 5 mm Linergy BS	04671	B-12, B-13, B-15, B-16
Modular device rail, W = 1600 mm	04226	A-79, B-50
Modular front plate W300 3m	03213	A-49
Modular front plate W300 4m	03214	A-49, A-50
Modular front plate width 600/650 2m	03202	A-75
Modular front plate width 600/650 3m	03203	A-49, A-71, A-75
Modular front plate width 600/650 4m	03204	A-49, A-50, A-75
Modular front plate width 600/650 5m	03205	A-50, A-71
Mount.plate 2 NSX/CVS/INS fixed/plugin toggle/rot/mot -3P/4P 630 A vertical W650	03461	A-29, A-31, A-35, A-37, A-39, A-43, A-44, A-45, A-47
Mounting hardware for D = 400 mm or D = 600 mm framework, Prisma P	01108	D-3
Mounting hardware for joint > 80 mm Linergy LGY	04642	A-11, B-14, B-16, B-17, B-18
Mounting plate changeover NS1000 rotary horizontal W650	03491	A-60
Mounting plate for 2 3P-meters W600	03152	A-72
Mounting plate for 3 1P-meters W600 5m	03157	A-72
Mounting plate for EZC fixed -1P/3P/4P 100 A vertical in width 650	03502	A-45
Mounting plate for EZC fixed -3P/4P 250 A vertical and horizontal in width 650	03504	A-45
Mounting plate for horizontal NSX250 source changeover with motor mechanism	03417	A-53, A-54, A-55, A-56, A-57, A-58, A-59, A-62
Mounting plate for horizontal VarplusCan	03979	A-70
Mounting plate for ISFT100	03554	A-67
Mounting plate for ISFT 100N/160, busbar mounting	03555	A-67
Mounting plate for ISFT100N	03553	A-67
Mounting plate for ISFT160	03556	A-67
Mounting plate for ISFT250-630	03557	A-67
Mounting plate for NS fixed -3P/4P 1000 A horizontal in width 650	03480	A-21
Mounting plate for NS fixed -3P/4P 1600 A vertical in width 400	03487	A-22, A-40
Mounting plate for NS fixed -3P/4P 1600 A vertical in width 650	03482	A-19, A-20
Mounting plate for NT/NS withdrawable - 3P/4P 1600A vertical in width 650	03483	A-13, A-14, A-19, A-20, A-57, A-58, A-59
Mounting plate for NT/NS withdrawable - 3P 1600 A vertical in width 400	03488	A-15, A-22
Mounting plate for NT fixed -3P/4P 1600 A vertical in width 650	03484	A-13, A-14, A-57, A-58, A-59
Mounting plate for NT fixed -3P 1600 A vertical in width 400	03489	A-15
Mounting plate for NW fixed/withdrawable - 3P/4P vertical in width 650	03500	A-6, A-8, A-10, A-12, A-53, A-54, A-55, A-56
Mounting plate for two, 3-phase meters, 6 modules, Prisma P	03508	A-72
Mounting plate for vertical fixed NSX-INS-INV250 with toggle	03420	A-28, A-43, A-47
Mounting plate for vertical fixed NSX250	03422	A-34, A-44
Mounting plate for vertical plug-in NSX250 and Vigi, with toggle	03423	A-30
Mounting plate for vertical withdrawable or plug-in NSX250	03421	A-30, A-36, A-39
Mounting plate INF 3P/4P 200-250 A horizontal W650	03534	A-68
Mounting plate INF 3P/4P 200-800 A vertical W650	03537	A-68
Mounting plate INF 3P/4P 32-40 A vertical and horizontal W650	03540	A-68
Mounting plate INF 3P/4P 400 A horizontal W650	03535	A-68
Mounting plate INF 3P/4P 600-800 A horizontal W650	03536	A-68
Mounting plate INF 3P/4P 63-160 A vertical and horizontal W650	03541	A-68
Mounting plate NS3200 INS-INV2500 fixed vertical in width 650	03501	A-18, A-46
Mounting plate NSX/CVS/INS 250 v. fixed rot. handle	03051	A-40
Mounting plate NSX/CVS/Vigi/INS 250 v. fix. toggle	03050	A-40
Mounting plate source changeover NSX/INS/INV 250 3P/4P rotary vertical	03428	A-61, A-63, A-64
Mounting plate source changeover NSX/INS/INV 630 3P/4P motor horizontal	03457	A-62
Mounting plate source changeover NSX/INS/INV 630 3P/4P rotary horizontal	03458	A-61, A-63, A-64
Mounting plate Vigilohm XM200-300C	03930	A-75
Mounting plate Vigilohm XML308-316	03931	A-75
Mounting plate Vigi NSX/CVS plugin toggle/rot/mot - 3P 250 A horizontal width 650	03413	A-27, A-32, A-33, A-42

Designation	Cat. no.	Pages
Mounting plate Vigi NSX/CVS plugin toggle/rot/mot - 3P 630 A horizontal width 650	03453	A-27, A-32, A-33, A-42
Mounting plate Vigi NSX/CVS plugin toggle/rot/mot - 4P 250 A horizontal width 650	03414	A-27, A-32, A-33, A-42
Mounting plate Vigi NSX/CVS plugin toggle/rot/mot - 4P 630 A horizontal width 650	03454	A-27, A-32, A-33, A-42
Mounting plate Vigi NSX/CVS toggle - 3P 250 A horizontal width 650	03411	A-26, A-41
Mounting plate Vigi NSX/CVS toggle - 3P 630 A horizontal width 650	03451	A-26, A-41, A-45
Mounting plate Vigi NSX/CVS toggle - 4P 250 A horizontal width 650	03412	A-26, A-41, A-47
Mounting plate Vigi NSX/CVS toggle - 4P 630 A horizontal width 650	03452	A-26, A-41, A-45, A-47
Mounting plate Vigi NSX withdrawable all controls-3/4P 250 A horizontal width 650	03415	A-38
Mounting plate Vigi NSX withdrawable all controls-3/4P 630 A horizontal width 650	03462	A-38
N		
Neutral connectors 63 A (set of 10)	A9N21042	B-44
NSX blanking plate electronic trip unit	03222	A-28, A-30, A-34, A-36, A-43, A-44, C-20
O		
Outlet grille cut-out 92 x 92 mm	NSYCAG92LPF	C-23
Outlet grille cut-out 125 x 125 mm	NSYCAG125LPF	C-23
Outlet grille cut-out 223 x 223 mm	NSYCAG223LPF	C-23
Outlet grille cut-out 291 x 291 mm	NSYCAG291LPF	A-70, C-23
P		
Partition of prefabricated connection devices >800 A W650 D600	04926	A-7, A-9, A-13, A-14, A-18, A-19, A-20, A-46, B-56
Partition of prefabricated connection LGYE devices >800 A W650 D600	04925	A-7, A-9, B-56
PE vertical bar with holes 25 x 5 W1675 Linergy TB	04512	B-49
PE vertical bar with holes 50 x 5 W1675 Linergy TB	04515	B-49
Phase connectors 63 A (set of 10)	A9N21041	B-44
Phase markers (set of 12) for Linergy LGY/LGYE profile	04794	B-19
Plain backplate, 36 mod. 660 mm wide	03569	A-78
Plain backplate, 36 modules 510 mm wide	03570	A-78
Plain barrier for horizontal busbars, W = 400 mm, D = 400 mm	04915	B-58
Plain barrier for horizontal busbars, W = 800 mm, D = 400 mm	04919	B-58
Plain door, IP55, W = 300 mm	08523	C-15
Plain door, IP55, W = 400 mm	08524	C-15
Plain door, IP55, W = 650 mm	08526	C-15
Plain door, IP55, W = 800 mm	08528	C-15
Plain front plate W300 1m	03811	A-50, A-76
Plain front plate W300 2m	03812	A-76
Plain front plate W300 3m	03813	A-76
Plain front plate W300 4m	03814	A-40, A-76
Plain front plate W300 5m	03815	A-76
Plain front plate W300 6m	03816	A-76
Plain front plate W300 9m	03817	A-76
Plain front plate width 600/650 12m	03808	A-10, A-76
Plain front plate width 600/650 1m	03801	A-13, A-28, A-29, A-30, A-31, A-34, A-35, A-36, A-37, A-39, A-47, A-58, A-68, A-71, A-76
Plain front plate width 600/650 2m	03802	A-10, A-12, A-13, A-18, A-19, A-28, A-29, A-30, A-31, A-34, A-35, A-36, A-37, A-39, A-43, A-44, A-45, A-57, A-59, A-61, A-63, A-64, A-67, A-68, A-76
Plain front plate width 600/650 3m	03803	A-8, A-10, A-13, A-14, A-19, A-20, A-29, A-31, A-35, A-37, A-39, A-46, A-57, A-58, A-59, A-61, A-68, A-71, A-76, B-50
Plain front plate width 600/650 4m	03804	A-6, A-8, A-12, A-13, A-14, A-18, A-19, A-20, A-46, A-53, A-55, A-57, A-59, A-71, A-75, A-76
Plain front plate width 600/650 5m	03805	A-6, A-8, A-12, A-14, A-20, A-53, A-54, A-55, A-71, A-76, B-50
Plain front plate width 600/650 6m	03806	A-12, A-14, A-18, A-20, A-53, A-54, A-55, A-56, A-71, A-72, A-76, B-50
Plain front plate width 600/650 9m	03807	A-72, A-76
Plain gland plate, IP55, W = 300 mm, D = 400 mm	08483	C-17
Plain gland plate, IP55, W = 300 mm, D = 600 mm	08683	C-17
Plain gland plate, IP55, W = 400 mm, D = 400 mm	08484	C-17
Plain gland plate, IP55, W = 400 mm, D = 600 mm	08684	C-17
Plain gland plate, IP55, W = 650 + 150 mm, D = 400 mm	08487	C-17
Plain gland plate, IP55, W = 650 + 150 mm, D = 600 mm	08687	C-17
Plain gland plate, IP55, W = 650 mm, D = 400 mm	08486	C-17
Plain gland plate, IP55, W = 650 mm, D = 600 mm	08686	C-17
Plain gland plate, IP55, W = 800 mm, D = 400 mm	08488	C-17
Plain gland plate, IP55, W = 800 mm, D = 600 mm	08688	C-17
Plain horizontal flat bar Linergy BS 100x10 L2000	04550	B-13, B-16
Plain horizontal flat bar Linergy BS 120x10 L2000	04552	B-13, B-16
Plain horizontal flat bar Linergy BS 50x10 L2000	04545	B-13
Plain horizontal flat bar Linergy BS 60x10 L2000	04546	B-13
Plain horizontal flat bar Linergy BS 60x5 L2000	04536	B-13
Plain horizontal flat bar Linergy BS 80x10 L2000	04548	B-13
Plain horizontal flat bar Linergy BS 80x5 L2000	04538	B-13
Plain wicket door, W = 150 mm	01110	A-70, D-4
Plinth, H = 100 mm, W = 300 mm, D = 400 mm	08723	C-17
Plinth, H = 100 mm, W = 400 mm, D = 400 mm	08724	C-17
Plinth, H = 100 mm, W = 650 mm, D = 400 mm	08726	C-17

Designation	Cat. no.	Pages
Plinth, H = 100 mm, W = 800 mm, D = 400 mm	08728	C-17
Power supply block NSX/CVS/INS-INV 400 4P	04070	B-23
Power supply block NSX/CVS/INS-INV 630 4P	04071	B-23
Power supply block universal 250 A 4P	04061	B-23
Prisma et Prisma P side-by-side combination kit	01199	D-5
Prisma P Framework, W = 300 mm, D = 400 mm	08403	C-11
Prisma P Framework, W = 300 mm, D = 600 mm	08603	C-11
Prisma P Framework, W = 400 mm, D = 400 mm	08404	C-11
Prisma P Framework, W = 400 mm, D = 600 mm	08604	C-11
Prisma P Framework, W = 650+150 mm, D = 400 mm	08407	C-11
Prisma P Framework, W = 650+150 mm, D = 600 mm	08607	C-11
Prisma P Framework, W = 650 mm, D = 400 mm	08406	C-11
Prisma P Framework, W = 650 mm, D = 600 mm	08606	C-11
Prisma P Framework, W = 800 mm, D = 400 mm	08408	C-11
Prisma P Framework, W = 800 mm, D = 600 mm	08608	C-11
Prisma P IP55 and Prisma PH combination kit	01198	D-5
PTC external temperature sensor (double insulation)	NSYCCASTE	C-27
R		
Rail and raisers modular	04227	A-50
Raisers, Practic type (5)	04224	A-77
Rear connection cover for horizontal fixed NS1600	04844	A-21
Rear connection cover for NW	04863	A-6, A-8, B-56
Rear connection cover for vertical fixed NS1600	04853	A-19, B-56
Rear connection cover for vertical NS1600-NT	04854	A-13, A-14, A-19, A-20, B-56
Rear modular device rail, W = 650 mm	03590	A-79
Rear support for Form 3 partition	04943	B-60
Resis. ventil 250 W - 230 V Alum	NSYCR250W230VV	C-26
Resis. ventil 400 W 230 V Alum	NSYCR400W230VV	C-26
Resist. heater Alum 100 W, 110-250 V	NSYCR100WU2	C-26
Resist. heater Alum 10 W, 110-250 V	NSYCR10WU2	C-26
Resist. heater Alum 150 W, 110-250 V	NSYCR150WU2	C-26
Resist. heater Alum 20 W, 110-250 V	NSYCR20WU2	C-26
Resist. heater Alum 55 W, 110-250 V	NSYCR55WU2	C-26
Roof outlet grille cut-out	NSYCAC228RMB	A-70, C-25
Rotative handle with rod for Prisma P	01219	C-21
S		
Screwdriver slot insert	08946	C-21
Screws (20) + wing nuts for framework	08921	C-12
Screws (20) 8.8 class M6 x 12 Linergy BW insulated busbar	04158	B-22
Screws (20) for joint 2 x 10 mm Linergy BS horizontal/vertical busbar	04645	B-16
Screws (40) 8.8 class M6 x 16 for < 630 A threaded bar	04195	B-27
Sealing kit, IP31	08711	C-14
Self-adhesive label sheets for common symbols (10)	13735	C-20
Self-adhesive label sheets for special symbols (10)	13736	C-20
Set of 10 mimic diagram, 900 mm lines, black, Prisma P	01005	C-20
Set of 10 mimic diagram, black, earth symbols, Prisma P	01009	C-20
Set of 10 mimic diagram, black, incoming arrows, Prisma P	01007	C-20
Set of 10 mimic diagram, black, outgoing arrows, Prisma P	01006	C-20
Set of 10 mimic diagram, black, transformers, Prisma P	01008	C-20
Set of 10 screws + combination accessory	08718	C-12
Short rear connections NSX100/250, Vigi NSX100/250, 3-4P	LV429235	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47
Short rear connections NSX400/630, Vigi NSX400/630, INS-INV320/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630	LV432475	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47
Short terminal shield Fupact INF200	LV480550	A-68
Short terminal shield Fupact INF250	LV480552	A-68
Short terminal shield Fupact INF400	LV480554	A-68
Short terminal shield Fupact INF600/800	LV480556	A-68
Short terminal shield Fupact ISFT160	49880	A-67
Short terminal shield NSX100/250 3P	LV429515	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-61, A-62
Short terminal shield NSX100/250 4P	LV429516	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-61, A-62
Short terminal shields, 3P, NSX400/630, Vigi NSX400/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630	LV432591	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-61, A-62
Short terminal shields, 4P, NSX400/630, Vigi NSX400/630, INS-INV320/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630	LV432592	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47, A-61, A-62
Short terminal shields INS-INV250	LV432516	A-47
Sideframe door cut out Fupact ISFL160/250/400/630	LV480868	A-66
Side plate for comb busbar (set of 10)	10405	B-43
Side plate for comb busbar 2P (set of 10)	10398	B-45
Side plates 1P (set of 10)	A9XPE110	B-41
Side plates 2P (set of 10)	A9XPE210	B-41
Side plates 3P (set of 10)	A9XPE310	B-41

Designation	Cat. no.	Pages
Side plates 4P (set of 10)	A9XPE410	B-41
Side plates for plinth (2), D = 400 mm	08720	C-17
Side plates for plinth (2), D = 600 mm	08721	C-17
Slide rails (2) + angle brackets	03593	A-78
Source changeover assembly INS250 - 100 A - 3P	31140	A-64
Source changeover assembly INS250 - 100 A - 4P	31141	A-64
Source changeover assembly INS250 - 160 A - 3P	31144	A-64
Source changeover assembly INS250 - 160 A - 4P	31145	A-64
Source changeover assembly INS250 - 200 A - 3P	31142	A-64
Source changeover assembly INS250 - 200 A - 4P	31143	A-64
Source changeover assembly INS250 - 250 A - 3P	31146	A-64
Source changeover assembly INS250 - 250 A - 4 P	31147	A-64
Source changeover assembly INS320/630 - 320 A - 3P	31148	A-64
Source changeover assembly INS320/630 - 320 A - 4P	31149	A-64
Source changeover assembly INS320/630 - 400 A - 3P	31150	A-64
Source changeover assembly INS320/630 - 400 A - 4P	31151	A-64
Source changeover assembly INS320/630 - 500 A - 3P	31152	A-64
Source changeover assembly INS320/630 - 500 A - 4P	31153	A-64
Source changeover assembly INS320/630 - 630 A - 3P	31154	A-64
Source changeover assembly INS320/630 - 630 A - 4 P	31155	A-64
Spacing rods for edgewise bars	04691	A-13, A-16, A-19, A-23
Spare filter cut-out 228 x 228 mm	NSYCAF228R	A-70
Square insert, 6 mm female	08955	C-21
Square insert, 6 mm male	08951	C-21
Square insert, 7 mm male	08952	C-21
Square insert, 8 mm male	08953	C-21
Stabiliser kit	08701	C-19
Standard handle, RAL 7016, Prisma P	08931	C-21
Stops (12)/1600 A bottom support Linergy LGYE	04658	B-15
Stops (12)/4000 A bottom support Linergy LGYE	04659	B-15
Support 72x72 metering dev/p-button for cut-out front plate 03910/03912	03907	A-74
Support 72x72 metering device/push-button for front plate 03904/visor 03928	03900	A-15, A-22, A-74
Support 96x96 metering dev/p-button for cut-out front plate 03911/03913	03908	A-74
Support 96x96 metering device/push-button for front plate 03904/visor 03928	03901	A-15, A-22, A-74
Supports (2) for additional bar on modular rail	04205	B-48
Support with 72x72 cut-out for metering dev/p-button for fr.pl.03904/visor 03928	03902	A-15, A-22, A-74
Support with 96x96 cut-out for metering dev/p-button for fr.pl.03904/visor 03928	03903	A-15, A-22, A-74
Switchboard identification plate	08900	C-20
Switchboard lighting	08964	A-82
Switchboard portable lamp	08965	A-82
T		
Terminal blocks	NSYTR-●●●	B-52, B-53
Terminals (12) for cable 1x16 ² for Linergy BW insulated busbar	04152	B-22
Terminals (12) for cable 6/10 ² and 1X10 ² for Linergy BW insulated busbar	04151	B-22
Thermostat w/Invers Contact (°C)	NSYCCOTHI	C-27
Thermoventil. Heat. 400-550 W, 230 V	NSYCRP1W230VTVC	C-26
Threaded bars (4) 160 A W1000 Linergy BS busbar	04161	B-24, B-25
Threaded bars (4) 160 A W1400 for Linergy BS busbar	04171	B-24, B-25
Threaded bars (4) 250 A W1000 for Linergy BS busbar	04162	B-24, B-25
Threaded bars (4) 250 A W1400 for Linergy BS busbar	04172	B-24, B-25
Threaded bars (4) 400 A W1000 for Linergy BS busbar	04163	B-24, B-25
Threaded bars (4) 400 A W1400 for Linergy BS busbar	04173	B-24, B-25
Threaded bars (4) 630 A W1400 for Linergy BS busbar	04174	B-25
Tooth-caps (12)	21096	B-43
Tooth-caps, 4P, for Linergy FC distribution block for Compact NSX250	04809	A-28, A-30, A-34, A-36, A-47, B-31
Tooth caps (set of 10)	10396	B-45
Tooth caps (set of 10)	A9N21050	B-44
Tooth caps (set of 20)	14818	B-40
Tooth caps (set of 20)	A9XPT920	B-41, B-42
Tooth Caps (set of 20)	R9XT20	B-46
Top hood Roof with filterfan	NSYCVF575M230MB	A-70, C-25
Torque nuts, M8 (20)	04759	B-19
Touch-up paint brush	08961	C-20
Transparent front plate W300 4m	03352	A-76
Transparent front plate W300 6m	03353	A-76
Transparent front plate W300 9m	03354	A-76
Transparent front plate width 600/650 12m	03345	A-76
Transparent front plate width 600/650 4m	03342	A-71, A-75, A-76
Transparent front plate width 600/650 6m	03343	A-72, A-76
Transparent front plate width 600/650 9m	03344	A-72, A-76
Triangle insert, 6.5 mm male	08947	C-21
Triangle insert, 7 mm male	08948	C-21
Triangle insert, 8 mm male	08949	C-21
Triangle insert, 9 mm male	08950	C-21
Trunking for door, W = 2000 mm	04233	A-80
Two-part gland plate, IP30, W = 300 mm, D = 400 mm	08493	C-17
Two-part gland plate, IP30, W = 300 mm, D = 600 mm	08693	C-17

Designation	Cat. no.	Pages
Two-part gland plate, IP30, W = 400 mm, D = 400 mm	08494	C-17
Two-part gland plate, IP30, W = 400 mm, D = 600 mm	08694	C-17
Two-part gland plate, IP30, W = 650 + 150 mm, D = 400 mm	08497	C-17
Two-part gland plate, IP30, W = 650 + 150 mm, D = 600 mm	08697	C-17
Two-part gland plate, IP30, W = 650 mm, D = 400 mm	08496	C-17
Two-part gland plate, IP30, W = 650 mm, D = 600 mm	08696	C-17
Two-part gland plate, IP30, W = 800 mm, D = 400 mm	08498	C-17
Two-part gland plate, IP30, W = 800 mm, D = 600 mm	08698	C-17
U		
Universal angle brackets (2)	03581	A-77, A-79, B-50
Universal angle brackets (6)	03583	A-77, B-60
Universal connection transfert in duct 250 A 3P	04429	A-26, A-27, A-32, A-33, A-38, A-41, A-42
Universal connection transfert in duct 250 A 4P	04430	A-26, A-27, A-32, A-33, A-38, A-41, A-42
Universal connection transfert in duct 630 A 3P	04459	A-26, A-27, A-32, A-33, A-38, A-41, A-42
Universal connection transfert in duct 630 A 4P	04460	A-26, A-27, A-32, A-33, A-38, A-41, A-42
Universal inserts (6), Prisma P	03582	A-77
Universal power supply block 400-630A	04074	B-23
Universal slotted mounting plate, 12 modules	03574	A-79
Universal slotted mounting plate, 4 modules	03571	A-71, A-79
Universal slotted mounting plate, 6 modules	03572	A-71, A-75, A-79
V		
Vertical-connection adapters, NT 06/16, NS630b/1600, 4P	33643	A-13, A-19, A-23, A-57, A-59
Vertical 10 mm busbar support D600 Linergy BS	04668	B-15, B-16
Vertical 10 mm busbar support D600 Linergy BS	04669	B-18
Vertical cable straps (12)	04262	A-80
Vertical connection adapters, NT 06/16, NS630b/1600, 3P	33642	A-13, A-16, A-19, A-23, A-57, A-59
Vertical connection adapters INS-INV630b/1600, 3P	31301	A-46
Vertical connection adapters INS-INV630b/1600, 4P	31302	A-46
Vertical connection adapters NS1600b/3200, 3P	33975	A-18, A-46
Vertical connection adapters NS1600b/3200, 3P	33976	A-18, A-46
Vertical fixed busbar support for Linergy BS 5/10mm or Linergy LGYE	04661	B-15, B-16
Vertical trunking L2000	04267	A-80
Visor 30° for metering dev/pb 72x72/96x96	03928	A-73, A-74
Voltage tap-offs for tab connectors, M10 (20)	04229	B-19
W		
W400 adjustable modular device rail Prisma P	03404	A-49, A-50
W650 adjustable modular device rail Prisma P	03402	A-50, A-71, A-75, A-79, B-50
W650 modular device rail Prisma P	03401	A-49, A-50, A-71, A-75, A-79
White handle + rod for Prisma P	01221	D-6

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
01000			03187	Hexagonal spacers, H = 55 mm, 4 M6	A-77
01005	Set of 10 mimic diagram, 900 mm lines, black, Prisma P	C-20	03194	Captive nuts for M6 hexag. spacers (20)	A-77
01006	Set of 10 mimic diagram, black, outgoing arrows, Prisma P	C-20	03195	Hexagonal spacers, H = 9 mm, 4 M6	A-77
01007	Set of 10 mimic diagram, black, incoming arrows, Prisma P	C-20	03196	Hexagonal spacers, H = 23 mm, 4 M6	A-77
01008	Set of 10 mimic diagram, black, transformers, Prisma P	C-20	03197	Hexagonal spacers, H = 55 mm, 4 M6	A-77
01009	Set of 10 mimic diagram, black, earth symbols, Prisma P	C-20	03198	Hexagonal spacers, H = 25 mm, 4 M6	A-77
01093	Front plate grips (20)	D-4	03199	Hexag. spacers, H = 40 + 10 mm, 4 M8	A-77
01094	Accessory for quarter-turn closing front plate	D-4	03202	Modular front plate width 600/650 2m	A-75
01100	Accessory for side panel, Prisma P	D-5	03203	Modular front plate width 600/650 3m	A-49, A-71, A-75
01101	Accessory for door or rear panel, IP55	D-4	03204	Modular front plate width 600/650 4m	A-49, A-50, A-75
01102	Accessory for IP55 side panel, Prisma P	D-5	03205	Modular front plate width 600/650 5m	A-50, A-71
01103	Accessory for IP55 roof, Prisma P	D-5	03213	Modular front plate W300 3m	A-49
01104	Accessory for framework, Prisma P	D-3	03214	Modular front plate W300 4m	A-49, A-50
01105	Accessory for closing, Prisma P	D-6	03220	Blanking strip, W1000, H = 46 mm	A-49, A-50, C-20
01106	Accessory for rear panel, Prisma P	D-4	03221	4 divisible blanking plates W90	A-49, A-50, C-20
01108	Mounting hardware for D = 400 mm or D = 600 mm framework, Prisma P	D-3	03222	NSX blanking plate electronic trip unit	A-28, A-30, A-34, A-36, A-43, A-44, C-20
01109	12 Linergy LGY busbar stops after sales service	B-14, B-17, D-3	03223	Front plate 3 modular rows width 600/650 8m	A-49
01110	Plain wicket door, W = 150 mm	A-70, D-4	03235	Front plate change-over INS-INV 250 rotary handle width 600/650 5m	A-63
01112	Accessory for roof, Prisma P	D-5	03241	Front plate 3-4 Vigi NSX/CVS 250 vertical fixed toggle width 600/650 7m	A-28, A-30, A-43
01115	CS frame bot. x-member W400	D-6	03243	Front plate 3-4 NSX/CVS250 vertical fixed toggle/rotary handle width 600/650 5m	A-28, A-30, A-34, A-36, A-39, A-43, A-44
01116	CS frame bot. x-member W650	D-6	03244	Front plate 3-4 Vigi NSX/CVS 250 vertical rotary handle/tel/plug-in w600 7m	A-34, A-36, A-39, A-44
01117	CS frame bot. x-member W150 + 650	D-6	03245	Front plate changeover NSX250 vertical rotary handle width 600/650 5m	A-61
01118	CS frame bot. x-member W650 + 150	D-6	03247	Front plate changeover INS250 width 600/650 5m	A-64
01119	Frame bot. cross-member W400	D-6	03248	Front plate INS250 vertical width 600/650 5m	A-47
01120	Frame bot. cross-member W650	D-6	03249	Blanking plate NSX/CVS 250-EZC100 vertical W147	A-28, A-30, A-34, A-36, A-43, A-44, A-45, C-20
01121	Frame bot. cross-member W150 + 650	D-6	03253	Front plate NSX/CVS 250 vertical fixed toggle/rotary handle W300 9m	A-40
01122	Frame bot. cross-member W650 +150	D-6	03273	Front plate CVS 630 vertical fixed toggle width 600/650 9m	A-43, A-45
01123	Front plate support striker kit for Prisma P	D-5	03274	Front plate INS630 vertical width 600/650 10m	A-47
01130	Linergy LGYE busbar screw plate kit after sales service	B-19, D-4	03275	Front plate NSX/CVS 630 vertical toggle/rotary handle/plug-in width 600/650 9m	A-29, A-31, A-35, A-37, A-39, A-44
01198	Prisma P IP55 and Prisma PH combination kit	D-5	03283	Front plate NSX/CVS 630 vertical fixed rotary handle W300 12m	A-40
01199	Prisma et Prisma P side-by-side combination kit	D-5	03293	Front plate Vigi NSX250 vertical toggle W300 9m	A-40
01201	2 IPxB clip-on cover Linergy BW	B-22, D-3	03297	Front plate vigi NSX/CVS 630 vertical toggle/rotary handle W600 9m	A-29, A-31, A-35, A-37, A-39
01202	4 IPxB covers Linergy FM 200	B-37, D-3	03299	Front plate Vigi NSX630 vertical fixed toggle W300 10m	A-40
01210	Linergy BW accessories 160 to 400 A	B-22, D-3	03303	Front plate 3-15 EZC100 vertical width 600/650 5m	A-45
01211	Linergy BW accessories 630 A	B-22, D-3	03304	Front plate EZC250 horizontal width 600/650 4m	A-45
01215	Cables membrane 70 x 40 (x5)	A-80	03305	Front plate EZC250 vertical width 600/650 7m	A-45
01219	Rotative handle with rod for Prisma P	C-21	03312	Front plate INF32/40 3P vertical width 600/650 3m	A-68
01221	White handle + rod for Prisma P	D-6	03313	Front plate INF32 hz. 3/4P-INF32-40 v. 4P width 600/650 3m	A-68
01224	IP30 reinforced plain door IK10 W650	C-13	03314	Front plate inf63-160 hz/v. 3/4p width 600/650 5m	A-68
01225	IP30 reinforced plain door IK10 W800	C-13			
03000					
03050	Mounting plate NSX/CVS/Vigi/INS 250 v. fix. toggle	A-40			
03051	Mounting plate NSX/CVS/INS 250 v. fixed rot. handle	A-40			
03152	Mounting plate for 2 3P-meters W600	A-72			
03154	Class 2 insulating plate width 600/650	A-72			
03157	Mounting plate for 3 1P-meters W600 5m	A-72			
03164	Clip-nuts for DIN rails, 20 M4	A-77			
03165	Clip-nuts for DIN rails, 20 M5	A-77			
03166	Clip-nuts for DIN rails, 20 M6	A-77			
03180	Clip-nuts for slotted mounting plates, 20 M4	A-77			
03181	Clip-nuts for slotted mounting plates, 20 M5	A-77			
03182	Clip-nuts for slotted mounting plates, 20 M6	A-77			
03185	Hexagonal spacers, H = 9 mm, 4 M5	A-77			
03186	Hexagonal spacers, H = 23 mm, 4 M5	A-77			

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
03315	Front plate inf63 v.4p-inf160 v.3/4p width 600/650 5m	A-68	03480	Mounting plate for NS fixed -3P/4P 1000 A horizontal in width 650	A-21
03320	Front plate ISFT100 vertical width 600/650 6m	A-67	03482	Mounting plate for NS fixed -3P/4P 1600 A vertical in width 650	A-19, A-20
03321	Front plate ISFT160 vertical width 600/650 6m	A-67	03483	Mounting plate for NT/NS withdrawable - 3P/4P 1600A vertical in width 650	A-13, A-14, A-19, A-20, A-57, A-58, A-59
03322	Front plate ISFT 250 vertical W650 9m	A-67	03484	Mounting plate for NT fixed -3P/4P 1600 A vertical in width 650	A-13, A-14, A-57, A-58, A-59
03323	Front plate ISFT 400 vertical W650 9m	A-67	03487	Mounting plate for NS fixed -3P/4P 1600 A vertical in width 400	A-22, A-40
03324	Front plate ISFT 630 vertical W650 8m	A-67	03488	Mounting plate for NT/NS withdrawable - 3P 1600 A vertical in width 400	A-15, A-22
03325	Front plate ISFT100N vertical width 600/650 8m	A-67	03489	Mounting plate for NT fixed -3P 1600 A vertical in width 400	A-15
03342	Transparent front plate width 600/650 4m	A-71, A-75, A-76	03491	Mounting plate changeover NS1000 rotary horizontal W650	A-60
03343	Transparent front plate width 600/650 6m	A-72, A-76	03500	Mounting plate for NW fixed/ withdrawable - 3P/4P vertical in width 650	A-6, A-8, A-10, A-12, A-53, A-54, A-55, A-56
03344	Transparent front plate width 600/650 9m	A-72, A-76	03501	Mounting plate NS3200 INS-INV2500 fixed vertical in width 650	A-18, A-46
03345	Transparent front plate width 600/650 12m	A-76	03502	Mounting plate for EZC fixed -1P/3P/4P 100 A vertical in width 650	A-45
03352	Transparent front plate W300 4m	A-76	03504	Mounting plate for EZC fixed -3P/4P 250 A vertical and horizontal in width 650	A-45
03353	Transparent front plate W300 6m	A-76	03508	Mounting plate for two, 3-phase meters, 6 modules, Prisma P	A-72
03354	Transparent front plate W300 9m	A-76	03534	Mounting plate INF 3P/4P 200-250 A horizontal W650	A-68
03401	W650 modular device rail Prisma P	A-49, A-50, A-71, A-75, A-79	03535	Mounting plate INF 3P/4P 400 A horizontal W650	A-68
03402	W650 adjustable modular device rail Prisma P	A-50, A-71, A-75, A-79, B-50	03536	Mounting plate INF 3P/4P 600-800 A horizontal W650	A-68
03404	W400 adjustable modular device rail Prisma P	A-49, A-50	03537	Mounting plate INF 3P/4P 200-800 A vertical W650	A-68
03411	Mounting plate Vigi NSX/CVS toggle - 3P 250 A horizontal width 650	A-26, A-41	03540	Mounting plate INF 3P/4P 32-40 A vertical and horizontal W650	A-68
03412	Mounting plate Vigi NSX/CVS toggle - 4P 250 A horizontal width 650	A-26, A-41, A-47	03541	Mounting plate INF 3P/4P 63-160 A vertical and horizontal W650	A-68
03413	Mounting plate Vigi NSX/CVS plugin toggle/rot/mot - 3P 250 A horizontal width 650	A-27, A-32, A-33, A-42	03545	Busbar mounting plate for ISFL160, 100 mm between centres	A-66
03414	Mounting plate Vigi NSX/CVS plugin toggle/rot/mot - 4P 250 A horizontal width 650	A-27, A-32, A-33, A-42	03546	Busbar mounting plate for ISFL630, 185 mm between centres	A-66
03415	Mounting plate Vigi NSX withdrawable all controls-3/4P 250 A horizontal width 650	A-38	03553	Mounting plate for ISFT100N	A-67
03417	Mounting plate for horizontal NSX250 source changeover with motor mechanism	A-53, A-54, A-55, A-56, A-57, A-58, A-59, A-62	03554	Mounting plate for ISFT100	A-67
03420	Mounting plate for vertical fixed NSX-INS-INV250 with toggle	A-28, A-43, A-47	03555	Mounting plate for ISFT 100N/160, busbar mounting	A-67
03421	Mounting plate for vertical withdrawable or plug-in NSX250	A-30, A-36, A-39	03556	Mounting plate for ISFT160	A-67
03422	Mounting plate for vertical fixed NSX250	A-34, A-44	03557	Mounting plate for ISFT250-630	A-67
03423	Mounting plate for vertical plug-in NSX250 and Vigi, with toggle	A-30	03561	Canalis support	A-8, A-14, A-20
03428	Mounting plate source changeover NSX/INS/INV 250 3P/4P rotary vertical	A-61, A-63, A-64	03569	Plain backplate, 36 mod. 660 mm wide	A-78
03451	Mounting plate Vigi NSX/CVS toggle - 3P 630 A horizontal width 650	A-26, A-41, A-45	03570	Plain backplate, 36 modules 510 mm wide	A-78
03452	Mounting plate Vigi NSX/CVS toggle - 4P 630 A horizontal width 650	A-26, A-41, A-45, A-47	03571	Universal slotted mounting plate, 4 modules	A-71, A-79
03453	Mounting plate Vigi NSX/CVS plugin toggle/rot/mot - 3P 630 A horizontal width 650	A-27, A-32, A-33, A-42	03572	Universal slotted mounting plate, 6 modules	A-71, A-75, A-79
03454	Mounting plate Vigi NSX/CVS plugin toggle/rot/mot - 4P 630 A horizontal width 650	A-27, A-32, A-33, A-42	03574	Universal slotted mounting plate, 12 modules	A-79
03457	Mounting plate source changeover NSX/INS/INV 630 3P/4P motor horizontal	A-62	03580	Angle brackets (4) + screws	A-77
03458	Mounting plate source changeover NSX/INS/INV 630 3P/4P rotary horizontal	A-61, A-63, A-64	03581	Universal angle brackets (2)	A-77, A-79, B-50
03461	Mount.plate 2 NSX/CVS/INS fixed/plugin toggle/rot/mot -3P/4P 630 A vertical W650	A-29, A-31, A-35, A-37, A-39, A-43, A-44, A-45, A-47	03582	Universal inserts (6), Prisma P	A-77
03462	Mounting plate Vigi NSX withdrawable all controls-3/4P 630 A horizontal width 650	A-38	03583	Universal angle brackets (6)	A-77, B-60
			03584	Lateral cross-members (2), W = 400 mm, for D = 400 mm	A-11, A-81, B-50
			03586	Lateral cross-members (2), W = 200 mm, for D = 600 mm	A-11, A-81
			03587	Longitudinal cross-members (2), W = 650 mm	A-81

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
03590	Rear modular device rail, W = 650 mm	A-79	03711	Front plate for fixed NW	A-6, A-8, A-10, A-53, A-54, A-55, A-56
03593	Slide rails (2) + angle brackets	A-78	03713	Front plate for INS1600, 3P	A-46
03595	Adapter, W = 500 mm, Prisma G	A-72, A-78, B-23	03714	Front plate for INS1600, 4P	A-46
03596	Adapter, W = 250 mm, Prisma G	A-40, A-78	03715	Front plate for INS2500, 3P or 4P	A-46
03604	Front plate Vigi NSX toggle / CVS rotary - 3P 250 A horizontal width 650 3 modules	A-26, A-27, A-32, A-33, A-42	03716	Front plate for NS3200	A-18
03606	Front plate Vigi NSX toggle / CVS rotary - 4P 250 A horizontal width 650 4 modules	A-26, A-27, A-32, A-33, A-42	03722	Hinged front plate, 13 modules, W = 400 mm	A-15, A-22
03611	Front plate for horiz. NS250, with toggle, 3P	A-41	03723	Hinged front plate for human-switchboard interface (HSI), 13 modules, W = 400 mm	A-15, A-22
03612	Front plate for horiz. NS250, with toggle, 4P	A-41	03727	Front plate for horizontal INF200-250	A-68
03616	Front plate for horiz. NSX250 source changeover with motor mechanism	A-62	03728	Front plate for vertical INF200-800	A-68
03617	Front plate for horiz. INS-INV250	A-47	03729	Front plate for horizontal INF400	A-68
03618	Front plate for horiz. withdrawable NSX250	A-38	03730	Front plate for horizontal INF630-800	A-68
03620	Front plate for vertical INS-INV250	A-47	03735	Font cover for ISFL, IP20, 185 mm between centres, W = 650 mm	A-66
03643	Front plate vigi NSX toggle / CVS rotary - 3P 630 A horizontal width 650 3modules	A-26, A-27, A-32, A-33, A-42	03736	Front plate for ISFL160, 185 mm between centres, W = 650 mm	A-66
03644	Front plate vigi NSX toggle / CVS rotary - 4P 630 A horizontal width 650 4 modules	A-26, A-27, A-32, A-33, A-42	03740	Blanking plate for ISFL160	A-66
03651	Front plate for horiz. NS630, with toggle, 3P	A-41, A-45	03741	Blanking plate for ISFL630	A-66
03652	Front plate for horiz. NS630, with toggle, 4P	A-41, A-45	03801	Plain front plate width 600/650 1m	A-13, A-28, A-29, A-30, A-31, A-34, A-35, A-36, A-37, A-39, A-47, A-58, A-68, A-71, A-76
03656	Front plate for horiz. NSX630 source changeover with motor mechanism	A-62	03802	Plain front plate width 600/650 2m	A-10, A-12, A-13, A-18, A-19, A-28, A-29, A-30, A-31, A-34, A-35, A-36, A-37, A-39, A-43, A-44, A-45, A-57, A-59, A-61, A-63, A-64, A-67, A-68, A-76
03657	Front plate for horiz. withdrawable NSX630	A-38	03803	Plain front plate width 600/650 3m	A-8, A-10, A-13, A-14, A-19, A-20, A-29, A-31, A-35, A-37, A-39, A-46, A-57, A-58, A-59, A-61, A-68, A-71, A-76, B-50
03658	Front plate for horiz. INS-INV630	A-47	03804	Plain front plate width 600/650 4m	A-6, A-8, A-12, A-13, A-14, A-18, A-19, A-20, A-46, A-53, A-55, A-57, A-59, A-71, A-75, A-76
03659	Front plate for horiz. NSX-INS630 source changeover with rotary handle	A-61, A-63	03805	Plain front plate width 600/650 5m	A-6, A-8, A-12, A-14, A-20, A-53, A-54, A-55, A-71, A-76, B-50
03661	Front plate for horizontal INS630 complete source changeover assembly	A-64	03806	Plain front plate width 600/650 6m	A-12, A-14, A-18, A-20, A-53, A-54, A-55, A-56, A-71, A-72, A-76, B-50
03663	Front plate for vertical NSX630	A-29, A-31, A-35, A-37, A-39	03807	Plain front plate width 600/650 9m	A-72, A-76
03666	Front plate for vertical NSX630 Vigi	A-29, A-31, A-35, A-37, A-39	03808	Plain front plate width 600/650 12m	A-10, A-76
03671	Front plate for UA or BA	A-53, A-54, A-55, A-56, A-57, A-58, A-59, A-62	03811	Plain front plate W300 1m	A-50, A-76
03687	Front plate for horizontal fixed NS1600 with toggle or rotary handle, 4P	A-21	03812	Plain front plate W300 2m	A-76
03690	Front plate for vertical fixed NS1600	A-19, A-20	03813	Plain front plate W300 3m	A-76
03691	Front plate for withdrawable NS1600-NT	A-13, A-14, A-19, A-20, A-57, A-58, A-59			
03692	Front plate for vertical fixed NT	A-13, A-14, A-57, A-58, A-59			
03695	Front plate for horizontal NS1600 source changeover with rotary handle	A-60			
03697	Front plate for vertical fixed NS1600, 3P or 4P, W = 400 mm	A-22			
03698	Front plate for vertical fixed NT, 3P, W = 400 mm	A-15			
03699	Front plate for withdrawable NS1600-NT, 3P, W = 400 mm	A-15, A-22			
03701	Front plate for vertical fixed NS1600, with motor mechanism	A-19, A-20			
03709	Dedicated front plate NW CSP 1/3	A-12			
03710	Front plate for withdrawable NW	A-6, A-8, A-10, A-12, A-53, A-54, A-55, A-56			

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
03814	Plain front plate W300 4m	A-40, A-76	04029	Connections (4) Linergy BS rear busbar / Linergy FM distribution block 4P 200 A	B-37
03815	Plain front plate W300 5m	A-76	04030	Connections (4) NG160/Linerger FM distribution block 4P 160A	B-37
03816	Plain front plate W300 6m	A-76	04031	Linerger DX 1P distribution block 160A 4 modules 6 holes	B-34
03817	Plain front plate W300 9m	A-76	04033	Linerger DP 3P distribution block/ Compact NSX/INS 250 A 27 holes	B-28
03890	Front plate for fan or grill width 600/650 7m	C-23	04034	Linerger DP 4P distribution block/ Compact NSX/INS 250A 36 holes	B-28
03891	IP30 ventilated front plate width 600/650 1m	C-23	04040	Linerger DX 4P 63 A (upstream distribution)	B-34
03895	IP30 ventilated front plate width 600/650 3m	C-23	04041	Linerger DX 4P 63 A (downstream distribution)	B-34
03900	Support 72x72 metering device/ push-button for front plate 03904/visor 03928	A-15, A-22, A-74	04045	Linerger DX 4P distribution block 125A 6 modules 52 holes	B-34
03901	Support 96x96 metering device/ push-button for front plate 03904/visor 03928	A-15, A-22, A-74	04046	Linerger DX 4P distribution block for NG/ INS160 160A 6M 52 holes	B-34
03902	Support with 72x72 cut-out for metering dev/p-button for fr.pl.03904/visor 03928	A-15, A-22, A-74	04047	Connections (4) NG125/Linerger DX distribution block 4P 125A	B-34
03903	Support with 96x96 cut-out for metering dev/p-button for fr.pl.03904/visor 03928	A-15, A-22, A-74	04052	Linerger BS 4P multistage busbar block 160A 52 holes	B-26
03904	Front plate 72x72/96x96 cut-out for metering device/push-button width 600/650 3m	A-73, A-74	04053	Linerger BS 4P multistage busbar block 250A 52 holes	B-26
03907	Support 72x72 metering dev/p-button for cut-out front plate 03910/03912	A-74	04054	Linerger BS 4P multistage busbar block 400A 52 holes	B-26
03908	Support 96x96 metering dev/p-button for cut-out front plate 03911/03913	A-74	04055	Linerger BS 4P multistage busbar block 630A 52 holes	B-26
03910	Front plate with 6 cut-out 72x72 metering dev/p-button width 600/650 3m	A-73, A-74	04060	Bloc alimentation NSX/CVS/INS/INV 250	B-23
03911	Front plate with 4 cut-out 96x96metering dev/p-button width 600/650 3m	A-73, A-74, A-75	04061	Power supply block universal 250 A 4P	B-23
03912	Front plate 1cut-out 144x144 +4 cut-out 72x72 metering dev/p-button width 600/650 4m	A-73, A-74	04062	Copper connection 250 A vertical 4P/ universal power supply W600	B-23
03913	Front plate with 1 cut-out 96x96 metering dev/p-button width 600/650 3m	A-73, A-74, A-75	04064	Copper connection 250 A vertical 4P/ universal power supply W300	B-23
03914	Front plate 12 push-button/lamps width 600/650 2m	A-73, A-74	04070	Power supply block NSX/CVS/INS-INV 400 4P	B-23
03918	Front plate for Powerlogic CM3000-4000	A-75	04071	Power supply block NSX/CVS/INS-INV 630 4P	B-23
03923	Front plate with 1 pre cut-out 96x96 W300 3m	A-74, A-75	04073	Copper connection NSX/CVS/INS-INV 630 4P/universal power supply	B-23
03928	Visor 30° for metering dev/pb 72x72/96x96	A-73, A-74	04074	Universal power supply block 400-630A	B-23
03930	Mounting plate Vigilohm XM200-300C	A-75	04103	Linerger BW 3P IPXXB insulated busbar 125 A W450	B-22
03931	Mounting plate Vigilohm XML308-316	A-75	04104	Linerger BW 4P IPXXB insulated busbar 125 A W450	B-22
03932	Front plate Vigilohm XM200-300C width 600/650 6m	A-75	04107	Linerger BW 3P IPXXB insulated busbar 125 A W750	B-22
03933	Front plate Vigilohm XM308-316 width 600/650 4m	A-75	04108	Linerger BW 4P IPXXB insulated busbar 125 A W750	B-22
03970	Door with cut-outs for power factor correction equipment, W = 650 mm	A-70	04111	Linerger BW 3P IPXXB insulated busbar 160 A W1000	B-22
03979	Mounting plate for horizontal VarplusCan	A-70	04112	Linerger BW 3P IPXXB insulated busbar 250 A W1000	B-22
04000			04113	Linerger BW 3P IPXXB insulated busbar 400 A W1000	B-22
04000	Linerger FM 4P distribution block 80 A 24 modules 44 holes	B-36	04114	Linerger BW 3P IPXXB insulated busbar 630 A W1000	B-22
04008	Linerger FM 4P distribution block 63 A 12 modules 20 holes	B-36	04116	Linerger BW 3P IPXXB insulated busbar 160 A W1400	B-22
04012	Linerger FM 2P distribution block 200 A 24 modules 24 holes	B-36	04117	Linerger BW 3P IPXXB insulated busbar 250 A W1400	B-22
04013	Linerger FM 3P distribution block 200 A 24 modules 42 holes	B-36	04118	Linerger BW 3P IPXXB insulated busbar 400 A W1400	B-22
04014	Linerger FM 4P distribution block 200 A 24 modules 54 holes	B-36	04119	Linerger BW 3P IPXXB insulated busbar 630 A W1400	B-22
04018	Linerger FM 4P distribution block 160 A 12 modules 27 holes	B-36	04121	Linerger BW 4P IPXXB insulated busbar 160 A W1000	B-22
04021	Connection 4P Linerger BW insulated busbar /Linerger FM distribution block 4P 200 A	B-22, B-23, B-37	04122	Linerger BW 4P IPXXB insulated busbar 250 A W1000	B-22
04024	Connection 4P Linerger BS multistage busbar /Linerger FM distribution block 4P 200 A	B-37	04123	Linerger BW 4P IPXXB insulated busbar 400 A W1000	B-22
04026	Linerger FM 4P distribution block 200 A 36 modules 81 holes	B-36	04124	Linerger BW 4P IPXXB insulated busbar 630 A W1000	B-22
			04126	Linerger BW 4P IPXXB insulated busbar 160 A W1400	B-22

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
04127	Linerigy BW 4P IPXXB insulated busbar 250 A W1400	B-22	04234	Grommets for wiring through front (10)	A-80
04128	Linerigy BW 4P IPXXB insulated busbar 400 A W1400	B-22	04235	Flexible trunking for wiring to door	A-80
04129	Linerigy BW 4P IPXXB insulated busbar 630 A W1400	B-22	04239	Horizontal cable straps (12)	A-80
04145	Cu connections 125 A 4P W230 with 35 ² ferrule + 45° angle lug	B-23	04243	Covers for horizontal cable straps (4)	A-80
04146	Cu connections 160a 4P W250 with 45 ² ferrule + 45° angle lug	B-23	04255	Horizontal trunking supports (12)	A-80
04147	Connections 160 A 4P Linerigy BW/ device 160 A W165	B-23	04256	Adaptable support (10) for horiz. trunking	A-80
04148	Connections 160 A 4P Linerigy BW/ device 160 A W440	B-23	04257	Horizontal trunking sections (4), W = 450 mm, + supports	A-80
04149	Connections 160 A 4P L380 /Linerigy DX 1P	B-34	04262	Vertical cable straps (12)	A-80
04150	IPXXB connection covers (8)/lug with cable 10-25 ² for Linerigy BW insulated busbar	B-22	04263	Covers (2) for vertical cable strap, W = 1000 mm	A-80
04151	Terminals (12) for cable 6/10 ² and 1X10 ² for Linerigy BW insulated busbar	B-22	04267	Vertical trunking L2000	A-80
04152	Terminals (12) for cable 1x16 ² for Linerigy BW insulated busbar	B-22	04403	Linerigy FC distribution block for Compact NSX250 3P toggle/fixe + connection	A-28, B-30
04155	Addit. block 2X35 ² 3P Linerigy DP 250A	B-28	04404	Linerigy FC distribution block for Compact NSX250 4P toggle/fixe + connection	A-28, A-47, B-30
04156	Additi. block 2X35 ² 4P Linerigy DP 250 A	B-28	04405	Linerigy FC distribution block for Compact NSX250 3P fixed/plug-in + connection	A-30, A-34, A-36, B-30
04158	Screws (20) 8.8 class M6 x 12 Linerigy BW insulated busbar	B-22	04406	Linerigy FC distribution block for Compact NSX250 4P fixed/plug-in + connection	A-30, A-34, A-36, B-30
04161	Threaded bars (4) 160 A W1000 Linerigy BS busbar	B-24, B-25	04407	Linerigy FC distribution block for Compact NSX250 3P fixed W/O connection	A-28, A-30, A-34, A-36, B-30
04162	Threaded bars (4) 250 A W1000 for Linerigy BS busbar	B-24, B-25	04408	Linerigy FC distribution block for Compact NSX250 4P fixed W/O connection	A-28, A-30, A-34, A-36, A-47, B-30
04163	Threaded bars (4) 400 A W1000 for Linerigy BS busbar	B-24, B-25	04423	Connection for horizontal fixed NSX250 with toggle, 3P 250A, on Linerigy LGY	A-26
04171	Threaded bars (4) 160 A W1400 for Linerigy BS busbar	B-24, B-25	04424	Connection for horizontal fixed NSX250 with toggle, 4P 250A, on Linerigy LGY	A-26
04172	Threaded bars (4) 250 A W1400 for Linerigy BS busbar	B-24, B-25	04425	Connection transfer assembly in duct for fixed horizontal NSX250 with toggle, 3P	A-26
04173	Threaded bars (4) 400 A W1400 for Linerigy BS busbar	B-24, B-25	04426	Connection transfer assembly in duct for fixed horizontal NSX250 with toggle, 4P	A-26
04174	Threaded bars (4) 630 A W1400 for Linerigy BS busbar	B-25	04427	Connection 250 A for horizontal NSX-INS-INV -3P fixed/plugin, all control	A-32, A-33, A-38, A-47
04191	Linerigy BS rear busbar support 400 A	B-24	04428	Connection 250 A for horizontal NSX-INS-INV -4P fixed/plugin, all control	A-32, A-33, A-38, A-47
04192	Linerigy BS multistage busbar support 630 A	B-25	04429	Universal connection transfert in duct 250 A 3P	A-26, A-27, A-32, A-33, A-38, A-41, A-42
04194	Bolts (20) 8.8 class M6 x 20 for 5 mm bar	B-27	04430	Universal connection transfert in duct 250 A 4P	A-26, A-27, A-32, A-33, A-38, A-41, A-42
04195	Screws (40) 8.8 class M6 x 16 for < 630 A threaded bar	B-27	04431	Connection for horizontal plug-in NSX250 with toggle, 3P 250A, on Linerigy LGY	A-27, A-38
04197	Barrier H1500 mm for Linerigy BS 630 A multistage busbar	B-25	04432	Connection for horizontal plug-in NSX250 with toggle, 4P 250A, on Linerigy LGY	A-27, A-38
04198	Barrier H100 mm for Linerigy BS 400 A rear busbar	B-24	04453	Connection for horizontal fixed NSX630 with toggle, 3P 630A, on Linerigy LGY	A-26
04200	Earth bar with 1 terminal 35 ² and 40 clamps W450 Linerigy TB	B-48	04454	Connection for horizontal fixed NSX630 with toggle, 4P 630A, on Linerigy LGY	A-26
04201	Direct earth bar 12 x 3 mm with 1 terminal 35 ² W330 Linerigy TB	B-48	04455	Connection transfer assembly in duct for fixed horizontal NSX630 with toggle, 3P	A-26
04202	Earth bar (2) with 1 terminal 35 ² and 20 clamps W200 Linerigy TB	B-48	04456	Connection transfer assembly in duct for fixed horizontal NSX630 with toggle, 4P	A-26
04203	Auxiliary bus duct, 4P, W1755 Linerigy MS	B-47	04459	Universal connection transfert in duct 630 A 3P	A-26, A-27, A-32, A-33, A-38, A-41, A-42
04205	Supports (2) for additional bar on modular rail	B-48	04460	Universal connection transfert in duct 630 A 4P	A-26, A-27, A-32, A-33, A-38, A-41, A-42
04210	Insulated spacers (2) for neutral bar Linerigy TB	B-48	04461	Connection for horizontal plug-in NSX630 with toggle, 3P 630A, on Linerigy LGY	A-27, A-38
04214	Earth block (4) 12 x 4 ² quick connection Linerigy TB	B-48			
04215	Earth block (4) 3 x 16 ² quick connection Linerigy TB	B-48			
04224	Raisers, Practic type (5)	A-77			
04226	Modular device rail, W = 1600 mm	A-79, B-50			
04227	Rail and raisers modular	A-50			
04228	Linerigy MS auxiliaries terminal block AU 10 IN/20 OUT	B-47			
04229	Voltage tap-offs for tab connectors, M10 (20)	B-19			
04233	Trunking for door, W = 2000 mm	A-80			

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
04462	Connection for horizontal plug-in NSX630 with toggle, 4P 630A, on Linergy LGY	A-27, A-38	04512	PE vertical bar with holes 25 x 5 W1675 Linergy TB	B-49
04473	Connection for horizontal fixed NS, 3P 1000A, on Linergy LGY	A-21	04515	PE vertical bar with holes 50 x 5 W1675 Linergy TB	B-49
04474	Connection for horizontal fixed NS, 4P 1000 A, on Linergy LGY	A-21	04516	Drilled vertical flat bar Linergy BS 60x5 L1675	B-16, B-18
04475	Connection for vertical fixed NT, 3P 1250 A, on Linergy LGY	A-13, A-14	04518	Drilled vertical flat bar Linergy BS 80x5 L1675	B-16, B-18
04476	Connection for vertical fixed NT, 4P 1250 A, on Linergy LGY	A-13, A-14	04525	Drilled vertical flat bar Linergy BS 50x10 L1675	B-16, B-18
04477	Connection for vertical withdrawable NS/ NT, 3P 1250A, on Linergy LGY	A-13, A-14, A-19, A-20	04526	Drilled vertical flat bar Linergy BS 60x10 L1675	B-16, B-18
04478	Connection for vertical withdrawable NS/ NT, 4P 1250A, on Linergy LGY	A-13, A-14, A-19, A-20	04528	Drilled vertical flat bar Linergy BS 80x10 L1675	B-16, B-18
04481	Connection for vertical fixed INS-INV, 3P 1600 A, on Linergy LGY	A-46	04536	Plain horizontal flat bar Linergy BS 60x5 L2000	B-13
04482	Connection for vertical fixed INS-INV, 4P 1600 A, on Linergy LGY	A-46	04538	Plain horizontal flat bar Linergy BS 80x5 L2000	B-13
04483	Connection transfer assembly in duct for fixed horizontal NS1000, 3P	A-21	04545	Plain horizontal flat bar Linergy BS 50x10 L2000	B-13
04484	Connection transfer assembly in duct for fixed horizontal NS1000, 4P	A-21	04546	Plain horizontal flat bar Linergy BS 60x10 L2000	B-13
04485	Connection for vertical fixed NS, 3P 1250 A, on Linergy LGY	A-19, A-20	04548	Plain horizontal flat bar Linergy BS 80x10 L2000	B-13
04486	Connection for vertical fixed NS, 4P 1250 A, on Linergy LGY	A-19, A-20	04550	Plain horizontal flat bar Linergy BS 100x10 L2000	B-13, B-16
04487	Connection for vertical fixed NS, 3P 1600 A, on Linergy LGY	A-19, A-20	04552	Plain horizontal flat bar Linergy BS 120x10 L2000	B-13, B-16
04488	Connection for vertical fixed NS, 4P 1600 A, on Linergy LGY	A-19, A-20	04560	Linergy LGYE profile 630 A length 2000mm	B-12, B-15
04489	Connection for vertical fixed NT, 3P 1600 A, on Linergy LGY	A-13, A-14	04561	Linergy LGYE profile 800 A length 2000mm	B-12, B-15
04490	Connection for vertical fixed NT, 4P 1600 A, on Linergy LGY	A-13, A-14	04562	Linergy LGYE profile 1000 A length 2000mm	B-12, B-15
04491	Connection for vertical withdrawable NS/ NT, 3P 1600 A, on Linergy LGY	A-13, A-14, A-19, A-20	04563	Linergy LGYE profile 1250 A length 2000mm	B-12, B-15
04492	Connection for vertical withdrawable NS/ NT, 4P 1600 A, on Linergy LGY	A-13, A-14, A-19, A-20	04564	Linergy LGYE profile 1600 A length 2000mm	B-12, B-15
04493	Connection prefabricated horizontal 580mm with Linergy LGYE for NW 1600 A 3P	A-7, A-9	04565	Linergy LGYE profile 2000 A length 2000mm	B-12
04494	Connection prefabricated horizontal 580mm with Linergy LGYE for NW 1600 A 4P	A-7, A-9	04566	Linergy LGYE profile 2500 A length 2000mm	B-12
04495	Connection prefabricated horizontal 580mm with Linergy LGYE for NW 2500 A 3P	A-7, A-9	04567	Linergy LGYE profile 3200 A length 2000mm	B-12
04496	Connection prefabricated horizontal 580mm with Linergy LGYE for NW 2500 A 4P	A-7, A-9	04568	Linergy LGYE profile 4000 A length 2000mm	B-12
04497	Connection prefabricated horizontal 580mm with Linergy LGYE for NW 3200 A 3P	A-7, A-9	04602	Linergy LGYE vertical connection 1600 A	B-14, B-15, B-17, B-49
04498	Connection prefabricated horizontal 580mm with Linergy LGYE for NW 3200 A 4P	A-7, A-9	04603	Linergy LGYE vertical shifted connection 1600 A	B-14, B-15
04502	Linergy LGYE profile 630 A for a vertical installation length 1670mm	B-14, B-17, B-49	04604	Linergy LGYE vert. short connect. 2500 A	B-15
04503	Linergy LGYE profile 800 A for a vertical installation length 1670mm	B-14, B-17, B-49	04605	Linergy LGYE vertical long connection 2500 A	B-15
04504	Linergy LGYE profile 1000 A for a vertical installation length 1670mm	B-14, B-17	04607	Linergy LGYE vertical connection 4000 A	B-15
04505	Linergy LGYE profile 1250A for a vertical installation length 1670mm	B-14, B-17, B-49	04620	Linergy LGYE horizontal joint 1600 A	B-12
04506	Linergy LGYE profile 1600 A for a vertical installation length 1670mm	B-14, B-17	04621	Linergy LGYE horizontal joint 2500 A	B-12
04507	Linergy LGYE profile 2000 A for a vertical installation length 1625mm	B-15	04623	Linergy LGYE horizontal joint 4000 A	B-12
04508	Linergy LGYE profile 2500 A for a vertical installation length 1625mm	B-15	04624	Linergy LGYE isolating screen neutral	B-12
04509	Linergy LGYE profile 3200 A for a vertical installation length 1625mm	B-15	04634	Connection 1000 A 5 mm horizontal busbar with Linergy LGY profile	B-14
04510	Linergy LGYE profile 4000 A for a vertical installation length 1625mm	B-15	04635	Connection 1600 A 5 mm horizontal busbar with Linergy LGY profile	B-14, B-17, B-18
			04636	Connection 1600 A 10 mm horizontal busbar with Linergy LGY profile	A-17, A-24, B-14, B-16, B-17, B-18, B-49
			04637	Connection 3200 A 10 mm horizontal busbar with Linergy BS vertical flat bar	A-11, B-16
			04638	Connection 4000 A 10 mm horizontal busbar with Linergy BS vertical flat bar	B-14, B-16
			04640	Joint for 50/60 mm bar/Linergy BS horizontal busbar	A-7, A-9, B-13
			04641	Joint for 80/100 mm bar/Linergy BS horizontal busbar	A-7, A-9, B-13

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
04642	Mounting hardware for joint > 80 mm Linergy LGY	A-11, B-14, B-16, B-17, B-18	04711	Canalis connection for front-connected NS-NT, 3P	A-14, A-20
04643	Joint for 120 mm bar for Linergy BS horizontal busbar	B-13	04712	Canalis connection for front-connected NS-NT, 4P	A-14, A-20
04645	Screws (20) for joint 2 x 10 mm Linergy BS horizontal/vertical busbar	B-16	04713	Canalis connection for rear-connected NS-NT, 3P	A-14, A-20
04646	Additional mounting hardware for supports Linergy LGYE 3200 & 4000 A	B-12, B-15	04714	Canalis connection for rear-connected NS-NT, 4P	A-14, A-20
04648	Connecting part, 120 mm	B-16	04715	Canalis connection 1600 A NW 3P	A-8
04651	Linergy LGY lateral busbar support	B-14	04716	Canalis connection 1600 A NW 4P	A-8
04652	Linergy LGY rear busbar support	B-17	04725	Canalis connection 2500 A NW 3P	A-8
04653	Linergy BS rear vertical support for 5/10mm bar	B-18	04726	Canalis connection 2500 A NW 4P	A-8
04656	Linergy TB PEN installation kit with LGY vertical profile	B-49	04735	Canalis connection 3200 A NW 3P	A-8
04657	Linergy TB set of 3 flat bar supports for PE vertical installation	B-49	04736	Canalis connection 3200 A NW 4P	A-8
04658	Stops (12)/1600 A bottom support Linergy LGYE	B-15	04742	Insulated flexible bar 20 x 2 W1800	B-32, B-33
04659	Stops (12)/4000 A bottom support Linergy LGYE	B-15	04743	Insulated flexible bar 20 x 3 W1800	B-32, B-33
04661	Vertical fixed busbar support for Linergy BS 5/10mm or Linergy LGYE	B-15, B-16	04746	Insulated flexible bar 24 x 5 W1800	B-32, B-33
04662	Free support for vertical/horizontal busbar Linergy BS 5/10mm or Linergy LGYE	A-7, A-9, A-13, A-14, A-17, A-18, A-19, A-20, A-24, A-46, B-12, B-13, B-15, B-16, B-18	04751	Insulated flexible bar 32 x 5 W1800	B-32, B-33
04663	Bottom lateral vertical 5/10 mm busbar support Linergy LGYE/BS	B-15, B-16	04752	Insulated flexible bar 32 x 6 W1800	B-32, B-33
04664	Horizontal fixed busbar support for Linergy BS 5/10mm or Linergy LGYE	B-12, B-13	04753	Insulated flexible bar 32 x 8 W1800	B-32, B-33
04665	Horizontal 10 mm busbar support D600 Linergy BS	B-12, B-13	04759	Torque nuts, M8 (20)	B-19
04666	Bottom lateral 5/10 mm busbar support W300 Linergy LGYE/BS	B-15, B-16	04766	M8 Linergy LGY bolts (20) for cable lugs/ flexible bar W = 25 mm	B-19, B-49
04667	Horizontal PE flat bar supports Linergy TB (2)	A-77, B-49	04767	M8 Linergy LGY bolts (20) for copper bar W = 39 mm	B-19
04668	Vertical 10 mm busbar support D600 Linergy BS	B-15, B-16	04768	Flat plates with 2 studs (set of 12) + 24 torque nuts + 24 contact washers	B-19
04669	Vertical 10 mm busbar support D600 Linergy BS	B-18	04769	Flat plates with 3 studs (set of 8) + 24 torque nuts + 24 contact washers	B-19
04671	Metallic spacer (100) thickness 5 mm Linergy BS	B-12, B-13, B-15, B-16	04772	M8/diameter 20 mm flat washers (20) for flexible bar Linergy LGY	B-19
04672	Connection plates (2) for horizontal/vertical PE bars Linergy TB	B-49	04773	M8/diameter 24 mm flat washers (20) for flexible bar Linergy LGY	B-19
04673	Bottom lateral vertical 5/10 mm busbar support D600 Linergy BS	B-15, B-16	04774	M8/diameter 28 mm flat washers (20) for flexible bar Linergy LGY	B-19
04678	Free 5/10 mm busbar support D600 Linergy BS	A-6, A-8, B-12, B-13	04775	M8/diameter 20 mm flat washers (20) for lugs < 25° Linergy LGY	B-19
04683	Copper joint on profile Linergy vertical LGY/LGYE 1600 A for connection NT/ NW 3P	A-7, A-9	04782	Bolts (20) 8.8 class M8 x 20 /Linergy BS	B-16, B-19
04684	Copper joint on profile Linergy vertical LGY/LGYE 1600 A for connection NT/ NW 4P	A-7, A-9	04783	Bolts (20) 8.8 class M8 x 25 /Linergy BS	B-19
04685	Copper joint on profile Linergy vertical LGYE 2500 A for connection NW	A-7, A-9	04784	Bolts (20) 8.8 class M8 x 30 /Linergy BS	B-19
04687	Copper joint on profile Linergy vertical LGYE 3200 A for connection NW	A-7, A-9	04785	Bolts (20) 8.8 class M8 x 35 /Linergy BS	B-19
04690	Flange for flat bars	A-11	04786	Bolts (20) 8.8 class M8 x 40 /Linergy BS	B-19
04691	Spacing rods for edgewise bars	A-13, A-16, A-19, A-23	04787	Bolts (20) 8.8 class M8 x 45 /Linergy BS	B-19
04692	Flange for flat bars, W = 400 mm	A-17, A-24	04788	Bolts (20) 8.8 class M8 x 50 /Linergy BS	B-19
04693	Connection support, 70 mm between centres	A-13, A-14, A-19, A-20	04794	Phase markers (set of 12) for Linergy LGY/LGYE profile	B-19
04694	connection support, 115 mm between centres	A-6, A-8, A-10, A-18, A-46	04809	Tooth-caps, 4P, for Linergy FC distribution block for Compact NSX250	A-28, A-30, A-34, A-36, A-47, B-31
04703	Canalis interface, 1600 A, 3P	A-14, A-20	04842	Connection cover for horiz. fixed NS1600	A-21
04704	Canalis interface, 1600 A, 4P	A-14, A-20	04844	Rear connection cover for horizontal fixed NS1600	A-21
			04851	Front connection cover for vertical fixed NS1600	A-19, A-20, B-56
			04852	Front connection cover for vertical NS1600-NT	A-13, A-14, A-19, A-20, B-56
			04853	Rear connection cover for vertical fixed NS1600	A-19, B-56
			04854	Rear connection cover for vertical NS1600-NT	A-13, A-14, A-19, A-20, B-56
			04855	Cover for vertical NS1600-NT, 3P, W = 400 mm	A-17, A-24
			04860	Busbar cover for NW or ISFL, W = 650 mm	A-11, A-66
			04861	Front connection cover for NW	A-6, A-8, A-10, A-12, B-56
			04863	Rear connection cover for NW	A-6, A-8, B-56
			04871	Canalis cover	
			04901	Form 3 horizontal partition	B-60

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
04911	Inter-cubicle partition, D = 400 mm	B-63	04988	Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W800 mm, D600 mm	B-58
04915	Plain barrier for horizontal busbars, W = 400 mm, D = 400 mm	B-58	07000		
04919	Plain barrier for horizontal busbars, W = 800 mm, D = 400 mm	B-58	07051	Cable connectors (4) 1P 160 A 70 mm ² for rear busbar Linergy BS	B-27
04920	Form 2 front barrier for lateral vertical busbars, W = 300 mm	B-58	07052	Cable connectors (4) 1P 250 A 185 mm ² for rear busbar Linergy BS	B-27
04921	Form 2 front barrier for lateral vertical busbars	B-58	07053	Cable connectors (4) 1P 400 A 300 mm ² for rear busbar Linergy BS	B-27
04922	Form 2 side barrier for lateral vertical busbars	B-58	07938	Handle padlocking kit for 2 lockers	C-21
04924	Form 2 restoration kit for side barrier cut-out	B-58	07940	Barrel bloc with combination lock number 405	C-21
04925	Partition of prefabricated connection LGYE devices >800 A W650 D600	A-7, A-9, B-56	07941	Barrel bloc with combination lock number 455	C-21
04926	Partition of prefabricated connection devices >800 A W650 D600	A-7, A-9, A-13, A-14, A-18, A-19, A-20, A-46, B-56	07942	Barrel bloc with combination lock number 1242 E	C-21
04927	Additional partition of prefabricated connection W650 D600	A-7, A-9, A-18, B-56	07943	Barrel bloc with combination lock number 3113A	C-21
04928	Additional partition of prefabricated connection LGYE W650 D600	A-7, A-9, B-56	07944	Barrel bloc with combination lock number 2433A	C-21
04931	Inter-cubicle partition, D = 600 mm	B-63	07945	Insert bloc combinaison DIN double bar	C-21
04943	Rear support for Form 3 partition	B-60	07946	Insert bloc combinaison screwdriver slot	C-21
04946	Form 4 backplate for front connection, D = 600 mm	B-62	07947	Insert bloc combinaison 6.5mm male triangle	C-21
04951	Form 4 cable gland plate, for lateral or rear installation for 3 or 4 modules	B-62	07948	Insert bloc combinaison 7mm male triangle	C-21
04952	Form 4 cable gland plate, for lateral or rear installation for 5 or 6 modules	B-62	07949	Insert bloc combinaison 8mm male triangle	C-21
04953	Form 4b cover for connection transfer assembly in duct for 3 to 5 modules	B-62	07950	Insert bloc combinaison 9mm male triangle	C-21
04954	Form 4b cover for connection transfer assembly in duct for 4 to 6 modules	B-62	07951	Insert bloc combinaison 6mm male square	C-21
04955	Form 3 vertical partition for rear connection, 3 or 4 modules	B-60	07952	Insert bloc combinaison 7mm male square	C-21
04956	Form 3 vertical partition for rear connection, 5 or 6 modules	B-60	07953	Insert bloc combinaison 8mm male square	C-21
04963	Form 2 cover for horizontal busbars LGYE 32/40 or BS 4000A, W300 mm, D600 mm	B-58	07955	Insert bloc combinaison 6mm female square	C-21
04964	Form 2 cover for horizontal busbars LGYE 32/40 or BS 3200A, W400 mm, D600 mm	B-58	07956	Barrel bloc with combination lock number 2432E	C-21
04966	Form 2 cover for horizontal busbars LGYE 32/40 or BS 3200A, W650 mm, D600 mm	B-58	08000		
04968	Form 2 cover for horizontal busbars LGYE 32/40 or BS 3200A, W800 mm, D600 mm	B-58	08403	Prisma P Framework, W = 300 mm, D = 400 mm	C-11
04973	Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W300 mm, D400 mm	B-58	08404	Prisma P Framework, W = 400 mm, D = 400 mm	C-11
04974	Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W400 mm, D400 mm	B-58	08406	Prisma P Framework, W = 650 mm, D = 400 mm	C-11
04976	Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W650 mm, D400 mm	B-58	08407	Prisma P Framework, W = 650+150 mm, D = 400 mm	C-11
04978	Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W800 mm, D400 mm	B-58	08408	Prisma P Framework, W = 800 mm, D = 400 mm	C-11
04983	Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W300 mm, D600 mm	B-58	08433	IP30 plain roof, W = 300 mm, D = 400 mm	C-14
04984	Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W400 mm, D600 mm	B-58	08434	IP30 plain roof, W = 400 mm, D = 400 mm	C-14
04986	Form 2 cover for horizontal busbars LGYE 2500A or BS 3200A, W650 mm, D600 mm	B-58	08436	IP30 plain roof, W = 650 mm, D = 400 mm	C-14
			08438	IP30 plain roof, W = 800 mm, D = 400 mm	C-14
			08453	IP55 plain roof, W = 300 mm, D = 400 mm	C-16
			08454	IP55 plain roof, W = 400 mm, D = 400 mm	C-16
			08456	IP55 plain roof, W = 650 mm, D = 400 mm	C-16
			08458	IP55 plain roof, W = 800 mm, D = 400 mm	C-16
			08476	IP30 ventilated roof without fans W650 D400	C-25
			08478	IP55 ventilated roof without fans W800 D400	A-70, C-25

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
08483	Plain gland plate, IP55, W = 300 mm, D = 400 mm	C-17	08658	IP55 plain roof, W = 800 mm, D = 600 mm	C-16
08484	Plain gland plate, IP55, W = 400 mm, D = 400 mm	C-17	08676	IP55 ventilated roof without fans W650 D600	C-25
08486	Plain gland plate, IP55, W = 650 mm, D = 400 mm	C-17	08678	IP55 ventilated roof without fans W800 D600	A-70, C-25
08487	Plain gland plate, IP55, W = 650 + 150 mm, D = 400 mm	C-17	08683	Plain gland plate, IP55, W = 300 mm, D = 600 mm	C-17
08488	Plain gland plate, IP55, W = 800 mm, D = 400 mm	C-17	08684	Plain gland plate, IP55, W = 400 mm, D = 600 mm	C-17
08493	Two-part gland plate, IP30, W = 300 mm, D = 400 mm	C-17	08686	Plain gland plate, IP55, W = 650 mm, D = 600 mm	C-17
08494	Two-part gland plate, IP30, W = 400 mm, D = 400 mm	C-17	08687	Plain gland plate, IP55, W = 650 + 150 mm, D = 600 mm	C-17
08496	Two-part gland plate, IP30, W = 650 mm, D = 400 mm	C-17	08688	Plain gland plate, IP55, W = 800 mm, D = 600 mm	C-17
08497	Two-part gland plate, IP30, W = 650 + 150 mm, D = 400 mm	C-17	08693	Two-part gland plate, IP30, W = 300 mm, D = 600 mm	C-17
08498	Two-part gland plate, IP30, W = 800 mm, D = 400 mm	C-17	08694	Two-part gland plate, IP30, W = 400 mm, D = 600 mm	C-17
08513	IP30 plain door, W = 300 mm	C-13	08696	Two-part gland plate, IP30, W = 650 mm, D = 600 mm	C-17
08514	IP30 plain door, W = 400 mm	C-13	08697	Two-part gland plate, IP30, W = 650 + 150 mm, D = 600 mm	C-17
08516	IP30 plain door, W = 650 mm	C-13	08698	Two-part gland plate, IP30, W = 800 mm, D = 600 mm	C-17
08518	IP30 plain door, W = 800 mm	C-13	08700	Lifting rings (4)	C-19
08523	Plain door, IP55, W = 300 mm	C-15	08701	Stabiliser kit	C-19
08524	Plain door, IP55, W = 400 mm	C-15	08702	Levelling kit	C-19
08526	Plain door, IP55, W = 650 mm	C-15	08703	False floor fixing kit	C-19
08528	Plain door, IP55, W = 800 mm	C-15	08704	Floor or wall fixing kit	C-19
08534	IP30 transparent door, W = 400 mm	C-13	08705	Handling plinth, W = 1200 -> 1900 mm	C-18, D-96
08536	IP30 transparent door, W = 650 mm	C-13	08706	Handling plinth, W = 2000 -> 2550 mm	C-18, D-96
08538	IP30 transparent door, W = 800 mm	C-13	08707	Handling plinth, W = 2650 -> 3050 mm	C-18, D-96
08544	IP55 transparent door, W = 400 mm	C-15	08711	Sealing kit, IP31	C-14
08546	IP55 transparent door, W = 650 mm	C-15	08712	IP30 corner kit for Linergy LGYE with fixed supports	C-14
08548	IP55 transparent door, W = 800 mm	C-15	08713	IP30 corner kit for Linergy BS	C-14
08560	Front plate support frame kit, 10 modules W = 650 mm	A-12, C-11	08714	Cubicle handling plinth end-pieces (2), D = 400 mm	C-18, D-96
08562	Front plate support frame, 12 Modules W = 650 mm	A-12, C-11	08716	Cubicle handling plinth end-pieces (2), D = 600 mm	C-18, D-96
08564	Front plate support frame, W = 400 mm	C-11	08717	IP55 sealing kit for side-by-side combinations	C-12
08566	Front plate support frame, W = 650 mm	C-11	08718	Set of 10 screws + combination accessory	C-12
08574	IP30 cover frame, W = 400 mm	C-13	08719	Double depth combination kit	C-12
08576	IP30 cover frame, W = 650 mm	C-13	08720	Side plates for plinth (2), D = 400 mm	C-17
08578	IP30 cover frame, W = 800 mm	C-13	08721	Side plates for plinth (2), D = 600 mm	C-17
08585	Front plate hinge kit (2)	C-20	08722	Lifting reinforcement kit	C-18, D-96
08593	IP30 door with cut-out for human-switchboard interface, W = 300 mm	C-13	08723	Plinth, H = 100 mm, W = 300 mm, D = 400 mm	C-17
08594	IP30 door with cut-out for human-switchboard interface, W = 400 mm	C-13	08724	Plinth, H = 100 mm, W = 400 mm, D = 400 mm	C-17
08603	Prisma P Framework, W = 300 mm, D = 600 mm	C-11	08726	Plinth, H = 100 mm, W = 650 mm, D = 400 mm	C-17
08604	Prisma P Framework, W = 400 mm, D = 600 mm	C-11	08728	Plinth, H = 100 mm, W = 800 mm, D = 400 mm	C-17
08606	Prisma P Framework, W = 650 mm, D = 600 mm	C-11	08733	IP30 rear panel, W = 300 mm	C-13
08607	Prisma P Framework, W = 650+150 mm, D = 600 mm	C-11	08734	IP30 rear panel, W = 400 mm	C-13
08608	Prisma P Framework, W = 800 mm, D = 600 mm	C-11	08736	IP30 rear panel, W = 650 mm	C-13
08633	IP30 plain roof, W = 300 mm, D = 600 mm	C-14	08738	IP30 rear panel, W = 800 mm	C-13
08634	IP30 plain roof, W = 400 mm, D = 600 mm	C-14	08743	IP55 rear panel, W = 300 mm	C-15
08636	IP30 plain roof, W = 650 mm, D = 600 mm	C-14	08744	IP55 rear panel, W = 400 mm	C-15
08638	IP30 plain roof, W = 800 mm, D = 600 mm	C-14	08746	IP55 rear panel, W = 650 mm	C-15
08653	IP55 plain roof, W = 300 mm, D = 600 mm	C-16	08748	IP55 rear panel, W = 800 mm	A-70, A-80, C-15
08654	IP55 plain roof, W = 400 mm, D = 600 mm	C-16	08749	IP55 cutout rear panel, W = 800 mm	A-70
08656	IP55 plain roof, W = 650 mm, D = 600 mm	C-16	08750	IP30 side panels, D = 400 mm. Package of 2 for Left/Right	C-14
			08755	IP55 side panels, D = 400 mm. Package of 2 for Left/Right	C-16
			08756	IP55 combination side panels (2), W = 400 mm	C-16

Cat. no.	Designation	Pages
08760	IP30 side panels, D = 600 mm. Package of 2 for Left/Right	C-14
08765	IP55 side panels, D = 600 mm. Package of 2 for Left/Right	C-16
08773	Cable tie supports (4), W = 300 mm	A-81
08774	Cable tie supports (4), W = 400 mm	A-16, A-23, A-81
08776	Cable tie supports (4), W = 650 mm	A-81
08778	Cable tie supports (4), W = 800 mm	A-81
08783	Form C cable-tie support, W = 1600 mm	A-81
08794	Cable tie supports (4), D = 400 mm	A-16, A-23, A-81
08796	Cable tie supports (4), D = 600 mm	A-16, A-23, A-81
08900	Switchboard identification plate	C-20
08903	12 adhesive label holders 24x432 width 600/650	C-20
08904	12 adhesive label holders 36x432 width 600/650	C-20
08905	12 adhesive label holders 24x180 W300	C-20
08906	12 adhesive label holders 36x180 W300	C-20
08910	Earthing braid, 6 mm ²	C-21
08911	Earthing wire, 6 mm ²	C-21
08913	12 clip-on labels 18x35	C-20
08914	12 engraving plates 18x35 /support 08913	C-20
08915	12 clip-on labels 18x72	C-20
08916	12 engraving plates 18x72 /support 08915	C-20
08917	12 clip-on labels 25x85	C-20
08918	12 engraving plates 25x85 /support 08917	C-20
08921	Screws (20) + wing nuts for framework	C-12
08931	Standard handle, RAL 7016, Prisma P	C-21
08932	EURO handle without insert	C-21
08933	Handle without insert, ASSA-ABLOY	C-21
08938	Handle padlocking kit	C-21
08940	Barrel lock no. 405	C-21
08941	Barrel lock no. 455	C-21
08942	Barrel lock no. 1242 E	C-21
08943	Barrel lock no. 3113 A	C-21
08944	Barrel lock no. 2433 A	C-21
08945	DIN double bar insert	C-21
08946	Screwdriver slot insert	C-21
08947	Triangle insert, 6.5 mm male	C-21
08948	Triangle insert, 7 mm male	C-21
08949	Triangle insert, 8 mm male	C-21
08950	Triangle insert, 9 mm male	C-21
08951	Square insert, 6 mm male	C-21
08952	Square insert, 7 mm male	C-21
08953	Square insert, 8 mm male	C-21
08955	Square insert, 6 mm female	C-21
08956	Barrel lock no. 2432E	C-21
08961	Touch-up paint brush	C-20
08963	Adhesive drawing holder	C-20
08964	Switchboard lighting	A-82
08965	Switchboard portable lamp	A-82
10000		
10387	Comb busbar Domae 1P 63 A W = 12 x 18 mm	B-45
10388	Comb busbar 1P 63A 57 mod	B-45
10389	Comb busbar Domae 2P 63 A W = 12 x 18 mm	B-45
10390	Comb busbar 2P 63 A 56 modules	B-45
10391	Comb busbar 3P 63 A 12 modules	B-45
10392	Comb busbar 3P 63 A 57 modules	B-45
10393	Comb busbar Domae 4P 63 A W = 12 x 18 mm	B-45
10394	Comb busbar 4P 63 A 56 modules	B-45
10395	Comb busbar 4P 63A 54 modules	B-45

Cat. no.	Designation	Pages
10396	Tooth caps (set of 10)	B-45
10397	Insulated connector for comb busbar 35 mm ² 63 A (set of 4)	B-45
10398	Side plate for comb busbar 2P (set of 10)	B-45
10399	End cover for comb busbar 3P (set of 10)	B-45
10405	Side plate for comb busbar (set of 10)	B-43
10545	Comb busbar 12 mod. C60 Clario left	B-43
10546	Comb busbar 48 mod. C60 Clario left	B-43
10547	Comb busbar 48 mod. C60 Clario right	B-43
13000		
13735	Self-adhesive label sheets for common symbols (10)	C-20
13736	Self-adhesive label sheets for special symbols (10)	C-20
14000		
14811	Comb busbar (W = 430 mm, 16 poles) 1P	B-40
14812	Comb busbar (W = 430 mm, 16 poles) 2P	B-40
14813	Comb busbar (W = 430 mm, 16 poles) 3P	B-40
14814	Comb busbar (W = 430 mm, 16 poles) 4P	B-40
14818	Tooth caps (set of 20)	B-40
14885	Insulated connectors for 25 mm ² cables (4)	B-40
19000		
19512	Comb busbar - 1 pole + N - 80 A 18 modules	B-43
19516	Comb busbar Libro - 1 pole + N - 80 A L = 18 x 18 mm	B-43
21000		
21089	Comb busbar for DPN - 2P - 96 mod (9 mm)	B-43
21093	Comb busbar for DPN - 3P - 96 mod (9 mm)	B-43
21094	Lateral tooth-caps - 2P	B-43
21095	Lateral tooth-caps - 3P	B-43
21096	Tooth-caps (12)	B-43
21098	Insulated connectors (4)	B-43
21501	Comb busbar PH and N 12 poles	B-43
21503	Comb busbar PH and N 24 poles	B-43
21505	Comb busbar 3P and N 12 poles	B-43
21507	Comb busbar 3P and N 24 poles	B-43
31000		
31073	Mechanical interlocking INS-INV250	A-63
31074	Mechanical interlocking INS-INV320/630	A-63
31140	Source changeover assembly INS250 - 100 A - 3P	A-64
31141	Source changeover assembly INS250 - 100 A - 4P	A-64
31142	Source changeover assembly INS250 - 200 A - 3P	A-64
31143	Source changeover assembly INS250 - 200 A - 4P	A-64
31144	Source changeover assembly INS250 - 160 A - 3P	A-64
31145	Source changeover assembly INS250 - 160 A - 4P	A-64
31146	Source changeover assembly INS250 - 250 A - 3P	A-64
31147	Source changeover assembly INS250 - 250 A - 4 P	A-64
31148	Source changeover assembly INS320/630 - 320 A - 3P	A-64
31149	Source changeover assembly INS320/630 - 320 A - 4P	A-64
31150	Source changeover assembly INS320/630 - 400 A - 3P	A-64
31151	Source changeover assembly INS320/630 - 400 A - 4P	A-64

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
31152	Source changeover assembly INS320/630 - 500 A - 3P	A-64	A9N21050	Tooth caps (set of 10)	B-44
31153	Source changeover assembly INS320/630 - 500 A - 4P	A-64	A9XAH157	Comb busbar aux. 1P 100 A, 57 modules	B-41
31154	Source changeover assembly INS320/630 - 630 A - 3P	A-64	A9XAH257	Comb busbar aux. 2P 100 A, 57 modules	B-41
31155	Source changeover assembly INS320/630 - 630 A - 4P	A-64	A9XAH357	Comb busbar aux. 3P 100 A, 57 modules	B-41
31301	Vertical connection adaptors INS- INV630b/1600, 3P	A-46	A9XAH457	Comb busbar aux. 4P 100 A, 57 modules	B-41
31302	Vertical connection adaptors INS- INV630b/1600, 4P	A-46	A9XAH557	Comb busbar aux. 4P repart. 100 A, 57 modules	B-41
33000			A9XAH657	Comb busbar aux. 3P repart 100 A, 57 modules	B-41
33596	Arc chute screen NS630b/1600, 3P	A-19, A-20, A-21, A-23	A9XPCD04	Connect. 100 A double terminal (set of 4)	B-41, B-42
33597	Arc chute screen NS630b/1600, 4P	A-19, A-20, A-21, A-23	A9XPCM04	Connect. 100 A monoconnect (set of 10)	B-41, B-42
33628	Long terminal shield, 3P	A-60	A9XPE110	Side plates 1P (set of 10)	B-41
33629	Long terminal shield, 4P	A-60	A9XPE210	Side plates 2P (set of 10)	B-41
33642	Vertical connection adapters, NT 06/16, NS630b/1600, 3P	A-13, A-16, A-19, A-23, A-57, A-59	A9XPE310	Side plates 3P (set of 10)	B-41
33643	Vertical-connection adapters, NT 06/16, NS630b/1600, 4P	A-13, A-19, A-23, A-57, A-59	A9XPE410	Side plates 4P (set of 10)	B-41
33644	Cable lug adapters INS-INV630b/1600, 3P	A-13, A-16, A-19, A-23, A-46	A9XPH106	Comb busbar 1P 100 A, 6 mod., 18 mm	B-41
33645	Cable lug adapters INS-INV630b/1600, 4P	A-13, A-19, A-23, A-46	A9XPH112	Comb busbar 1P 100 A, 12 mod., 18 mm	B-41
33890	Mechanical interlocking NS630b/1000, 3-4P	A-60	A9XPH124	Comb busbar 1P 100 A, 24 mod., 18 mm	B-41
33975	Vertical connection adaptors NS1600b/3200, 3P	A-18, A-46	A9XPH157	Comb busbar 1P 100 A, 57 mod., 18 mm	B-41
33976	Vertical connection adaptors NS1600b/3200, 3P	A-18, A-46	A9XPH212	Comb busbar 2P 100 A, 12 mod., 18 mm	B-41
47000			A9XPH224	Comb busbar 2P 100 A, 24 mod., 18 mm	B-41
47335	Arc chute screen NT 06/16, 3P	A-13, A-14, A-16	A9XPH257	Comb busbar 2P 100 A, 57 mod., 18 mm	B-41
47336	Arc chute screen NT 06/16, 4P	A-13, A-14	A9XPH312	Comb busbar 3P 100 A, 12 mod., 18 mm	B-41
49000			A9XPH324	Comb busbar 3P 100 A, 24 mod., 18 mm	B-41
49860	Distribution connector 3 x 10 mm ² (set of A-67 3) - for ISFT100	A-67	A9XPH357	Comb busbar 3P 100 A, 57 mod., 18 mm	B-41
49861	Comb busbar to supply 2 devices - for ISFT100	A-67	A9XPH412	Comb busbar 4P 100 A, 12 mod., 18 mm	B-41
49862	Comb busbar to supply 3 devices - for ISFT100	A-67	A9XPH424	Comb busbar 4P 100 A, 24 mod., 18 mm	B-41
49863	Comb busbar to supply 4 devices - for ISFT100	A-67	A9XPH457	Comb busbar 4P 100 A, 57 mod., 18 mm	B-41
49864	Insulated comb cover for free outgoer - for ISFT100	A-67	A9XPH512	Comb busbar 4P repart. 100 A, 12 mod.	B-41
49865	Incoming connector (25 to 95 mm ²) for comb busbars (set of 3)	A-67	A9XPH518	Comb busbar 4P repart. 100 A, 18 mod.	B-41
49869	Long terminal shield Fupact ISFT160-3P	A-67	A9XPH524	Comb busbar 4P repart. 100 A, 24 mod.	B-41
49872	Long terminal shield Fupact ISFT250-3P	A-67	A9XPH557	Comb busbar 4P repart. 100 A, 57 mod.	B-41
49875	Long terminal shield Fupact ISFT400	A-67	A9XPM112	Comb busbar 1P 100 A, 12 mod.	B-42
49876	Long terminal shield Fupact ISFT630	A-67	A9XPM212	Comb busbar 2P 100 A, 12 mod.	B-42
49880	Short terminal shield Fupact ISFT160	A-67	A9XPM312	Comb busbar 3P 100 A, 12 mod.	B-42
49890	Comb busbar coupler to supply 5 devices (joins 2-device + 3-device comb)	A-67	A9XPM412	Comb busbar 4P 100 A, 12 mod.	B-42
A			A9XPM512	Comb busbar 4P repart. 100 A, 12 mod.	B-42
A9N21035	Comb busbar 1P + N 63 A, 56 modules	B-44	A9XPT920	Tooth caps (set of 20)	B-41, B-42
A9N21036	Comb busbar 3P + N repart 63 A, 56 modules	B-44	E		
A9N21037	Comb busbar 1P + N + Vigi 63 A, 56 modules	B-44	EZATSHD3P	Long terminal shield EZC100, 3P	A-45
A9N21038	Comb busbar 3P + N + Vigi repart 63 A, 56 modules	B-44	EZATSHD4P	Long terminal shield EZC100, 4P	A-45
A9N21039	End Caps 1P + N (set of 20)	B-44	EZETSHD3P	Long terminal shield EZC250, 3P	A-45
A9N21040	End Caps 3P + N (set of 20)	B-44	EZETSHD3PN	Long terminal shield EZC250, 3P	A-45
A9N21041	Phase connectors 63 A (set of 10)	B-44	EZETSHD4P	Long terminal shield EZC250, 4P	A-45
A9N21042	Neutral connectors 63 A (set of 10)	B-44	EZETSHD4PN	Long terminal shield EZC250, 4P	A-45
			L		
			LGY4230	10 plates + RJ45 female connector	B-47
			LGY4231	10 plates + 8P auxiliary connectors	B-47
			LGY112510	DS Distribution Block 1P 125 A, 10 holes	B-38
			LGY116013	DS Distribution Block 1P 160 A, 13 holes	B-38
			LGY125014	DS Distribution Block 1P 250 A, 14 holes	B-38
			LGY410028	DS Distribution Block 4P 100 A, 4 x 7 holes	B-38
			LGY412548	DS Distribution Block 4P 125 A, 4 x 12 holes	B-38
			LGY412560	DS Distribution Block 4P 125 A, 4 x 15 holes	B-38
			LGY416048	DS Distribution Block 4P 160 A, 4 x 12 holes	B-38
			LGYN1007	Additional neutral bar for screw distribution block - 100 A - 7 connections	B-38
			LGYN12512	Additional neutral bar for screw distribution block - 125 A - 12 connections	B-38
			LGYN12515	Additional neutral bar for screw distribution block - 125 A - 15 connections	B-38

Cat. no.	Designation	Pages	Cat. no.	Designation	Pages
LV429235	Short rear connections NSX100/250, Vigi NSX100/250, 3-4P	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47	LV432475	Short rear connections NSX400/630, Vigi NSX400/630, INS-INV320/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47
LV429236	Long rear connections NSX100/250, Vigi NSX100/250, 3-4P	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47	LV432476	Long rear connections NSX400/630, Vigi NSX400/630, INS-INV320/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47
LV429284	Escutcheon collar NSX100/630	A-38, A-39	LV432516	Short terminal shields INS-INV250	A-47
LV429285	Escutcheon collar NSX100/630, CVS100/250	A-32, A-33, A-34, A-35, A-36, A-37, A-38, A-39, A-42, A-44	LV432534	Escutcheon collar NSX400/630, Vigi NSX400/630	A-38, A-39, A-40
LV429286	Locking kit NSX100/630	A-38	LV432584	Connection adapter for plug-in base NSX400/630, Vigi NSX400/630, 3P	A-27, A-31, A-33, A-37, A-38, A-39, A-40
LV429306	Connection adapter for plug-in base NSX100/250, Vigi NSX100/250 3P	A-27, A-30, A-33, A-36, A-38, A-39, A-40, A-41, A-42	LV432585	Connection adapter for plug-in base NSX400/630, Vigi NSX400/630, 4P	A-27, A-31, A-33, A-37, A-38, A-39, A-40
LV429307	Connection adapter for plug-in base NSX100/250, Vigi NSX100/250 4P	A-27, A-30, A-33, A-36, A-38, A-39, A-40, A-41, A-42	LV432591	Short terminal shields, 3P, NSX400/630, Vigi NSX400/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-61, A-62
LV429316	IP40 escutcheon for Vigi module NSX100/250	A-34, A-35, A-36, A-37	LV432592	Short terminal shields, 4P, NSX400/630, Vigi NSX400/630, INS-INV320/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47, A-61, A-62
LV429358	Couplage inverseurs de source NSX100/250 - 3P	A-61, A-62	LV432593	Long terminal shields, 3P, NSX400/630, Vigi NSX400/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630, Easycompact Ezc400/630	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-45, A-61, A-62
LV429359	Couplage inverseurs de source NSX100/250 4 P, INS-INV250 3/4P	A-61, A-62, A-63, A-64	LV432594	Long terminal shields, 4P, NSX400/630, Vigi NSX400/630, INS-INV320/630, Easycompact CVS400/630, Easycompact Vigi CVS400/630, Easycompact Ezc400/630	A-26, A-27, A-29, A-31, A-32, A-33, A-35, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-45, A-61, A-62
LV429369	Mechanical interlocking for source changeover system NSX100/250	A-61	LV432595	Long terminal shield for spreaders, 3P, NSX400/630	A-61, A-62
LV429515	Short terminal shield NSX100/250 3P	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-61, A-62	LV432596	Long terminal shield for spreaders, 4P, NSX400/630	A-61, A-62
LV429516	Short terminal shield NSX100/250 4P	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-61, A-62	LV432619	Downstream coupling accessories, 3P, NSX400/630	A-61, A-62
LV429517	Long terminal shield NSX100/250 3P	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-61, A-62	LV432620	Downstream coupling accessories, NSX400/630 4P, INS-INV320/630 3/4P	A-61, A-62, A-63, A-64
LV429518	Long terminal shield NSX100/250 4P, INS-INV250 3/4 P	A-26, A-27, A-28, A-30, A-32, A-33, A-34, A-36, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-47, A-61, A-62, A-63, A-64	LV432621	Mechanical interlocking NSX400/630	A-61
LV429527	Escutcheon collar Vigi CVS400/630	A-42	LV480445	Long terminal shield Fupact INF100/160	A-68
			LV480550	Short terminal shield Fupact INF200	A-68
			LV480551	Long terminal shield Fupact INF200	A-68
			LV480552	Short terminal shield Fupact INF250	A-68
			LV480553	Long terminal shield Fupact INF250	A-68

Cat. no.	Designation	Pages
LV480554	Short terminal shield Fupact INF400	A-68
LV480555	Long terminal shield Fupact INF400	A-68
LV480556	Short terminal shield Fupact INF600/800	A-68
LV480557	Long terminal shield Fupact INF600/800	A-68
LV480756	Long terminal shield Fupact ISFT100N	A-67
LV480854	Conversion kit for direct connection to busbars Fupact ISFL160	A-66
LV480868	Sideframe door cut out Fupact ISFL160/250/400/630	A-66
LV480870	Length adaptor Fupact ISFL160	A-66

N

NSYCAC228RMB	Roof outlet grille cut-out	A-70, C-25
NSYCAF125	Filter standard G2 M1 cut-out 125 x 125 mm	C-23
NSYCAF125T	Fine filter G3 M1 cut-out 125 x 125 mm	C-23
NSYCAF223	Filter standard G2 M1 cut-out 223 x 223 mm	C-23
NSYCAF223T	Fine filter G3 M1 cut-out 223 x 223 mm	C-23
NSYCAF228R	Spare filter cut-out 228 x 228 mm	A-70
NSYCAF291	Filter standard G2 M1 cut-out 291 x 291 mm	C-23
NSYCAF291T	Fine filter G3 M1 cut-out 291 x 291 mm	C-23
NSYCAF92	Filter standard G2 M1 cut-out 92 x 92 mm	C-23
NSYCAG125LPF	Outlet grille cut-out 125 x 125 mm	C-23
NSYCAG223LPF	Outlet grille cut-out 223 x 223 mm	C-23
NSYCAG291LPF	Outlet grille cut-out 291 x 291 mm	A-70, C-23
NSYCAG92LPF	Outlet grille cut-out 92 x 92 mm	C-23
NSYCAP125LE	Cover, IP55 cut-out 125 x 125 mm	C-23
NSYCAP223LE	Cover, IP55 cut-out 223 x 223 mm	C-23
NSYCAP291LE	Cover, IP55 cut-out 291 x 291 mm	C-23
NSYCCASTE	PTC external temperature sensor (double insulation)	C-27
NSYCCOHY230VID	Electronical Hygrostat 230 V	C-27
NSYCCOHYT230VID	Hygrotherm 230 V	C-27
NSYCCOTH230VID	Electronical thermostat 230 V	C-27
NSYCCOTH	Double thermostat	C-27
NSYCCOTHI	Thermostat w/Invers Contact (°C)	C-27
NSYCR100WU2	Resist. heater Alum 100 W, 110-250 V	C-26
NSYCR10WU2	Resist. heater Alum 10 W, 110-250 V	C-26
NSYCR150WU2	Resist. heater Alum 150 W, 110-250 V	C-26
NSYCR20WU2	Resist. heater Alum 20 W, 110-250 V	C-26
NSYCR250W230VV	Resis. ventil 250 W - 230 V Alum	C-26
NSYCR400W230VV	Resis. ventil 400 W 230 V Alum	C-26
NSYCR55WU2	Resist. heater Alum 55 W, 110-250 V	C-26
NSYCRP1W230VTVC	Thermovenil. Heat. 400-550 W, 230 V	C-26
NSYCVF165M230PF	Filterfan 165 m³/h 230 V	C-23
NSYCVF300M230PF	Filterfan 300 m³/h 230 V	C-23
NSYCVF38M230PF	Filterfan 38 m³/h 230 V	C-23
NSYCVF560M230PF	Filterfan 560 m³/h 230 V	C-23
NSYCVF575M230MB	Top hood Roof with filterfan	A-70, C-25
NSYCVF850M230PF	Filterfan 850 m³/h 230 V	A-70, C-23
NSYCVF85M230PF	Filterfan 85 m³/h 230 V	C-23
NSYTRA-●●●	Accessories for terminal blocks	B-53
NSYTR-●●●	Terminal blocks	B-52, B-53

R

R9XE110	End Caps 1P (set of 10)	B-46
R9XE210	End Caps 2P (set of 10)	B-46
R9XE310	End Caps 3P (set of 10)	B-46
R9XE410	End Caps 4P (set of 10)	B-46
R9XFC04	Connectors 63A (set of 4)	B-46
R9XFH112	Comb busbar 1P 12 modules 63 A	B-46
R9XFH118	Comb busbar 1P 18 modules 63 A	B-46
R9XFH157	Comb busbar 1P 57 modules 63 A	B-46
R9XFH212	Comb busbar 2P 12 modules 63 A	B-46
R9XFH218	Comb busbar 2P 18 modules 63 A	B-46
R9XFH257	Comb busbar 2P 57 modules 63 A	B-46
R9XFH312	Comb busbar 3P 12 modules 63 A	B-46
R9XFH318	Comb busbar 3P 18 modules 63 A	B-46

Cat. no.	Designation	Pages
R9XFH357	Comb busbar 3P 57 modules 63 A	B-46
R9XFH412	Comb busbar 4P 12 modules 63 A	B-46
R9XFH418	Comb busbar 4P 18 modules 63 A	B-46
R9XFH457	Comb busbar 4P 57 modules 63 A	B-46
R9XFH518	Comb busbar balanced 4P 18 modules 63 A	B-46
R9XFH518G	Comb busbar hog balanced 4P 18 modules 63 A	B-46
R9XFH557	Comb busbar balanced 4P 57 modules 63 A	B-46
R9XT20	Tooth Caps (set of 20)	B-46

” Pack 160 enclosures / Prisma G Pack 250 Enclosures up to 630 A IP30, IP40, IP41, IP43, IP55



"Cubicles up to 4000 A IP30, IP31, IP55



4000 A

- > Hospitals
- > Data centres
- > Logistics centres
- > Shopping centres
- > Offices buildings

Prisma P



Prisma G



Develop your business efficiency



Switchboards that are safe...

With Prisma P you can be sure to build **100% Schneider Electric** switchboards that are safe, optimised:

- All components (switchgear, distribution blocks, prefabricated connections, etc.) are perfectly rated and coordinated to work together.
- All switchboard configurations, even the most demanding ones, have been tested.

You can prove that your switchboard meets the current standards, at any time.

You can be sure to build a reliable electrical installation and give your customers full satisfaction in terms of dependability and safety for people and the installation.



Tested low voltage switchboard, IEC 61439-1&2 compliant.

- **Available power**
- **Safety of people and property**
- **Controlled costs and delivery times**
- **Upgradeability**

with our functional LV systems

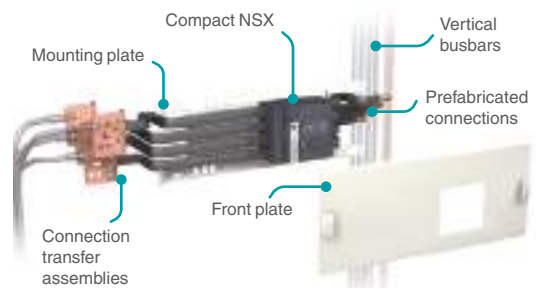
...optimised and upgradeable Straightforward organisation to make your job easier

With Prisma P you can build just the right switchboard for your customer, sized precisely to fit costs and needs. With this complete, prefabricated and tested system, it's easy to upgrade your installation and still maintain the original performance levels.

- The cubicles combine easily with switchboards already in service.
- Devices can be replaced or added at any time.



The switchboard is structured by zones dedicated to switchgear, busbars, cables, etc.



The functional units are naturally stacking in the switchboard.

Each configuration is tested for improved safety.



Temperature rise test in laboratory.

Readily available close by

The kit concept makes handling and transport easier and you get to benefit from Schneider Electric's efficient international logistics. Your distributor, selected by Schneider Electric, can give you the very best advice.

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



Switchboard design is very simple

1 A metal structure

The switchboard is made up of one or more frameworks combined side-by-side or back-to-back, on which a complete selection of cover panels and doors can be mounted.

2 A distribution system

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

3 Complete functional units

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

Each functional unit contributes to a function in the switchboard.

The functional units are modular and are arranged rationally.

The system includes everything required for functional unit mounting, supply and onsite connection.

The components of the Prisma P 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.



Assets of Prisma P switchboards

1 A dependable electrical installation

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

2 An upgradeable electrical installation

Thanks to modular design, Prisma P switchboards can be modified easily to integrate new functional units as needed. Maintenance operations, carried out with the switchboard de-energised, are fast and straight-forward due to easy access to devices.

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, 3 or 4 separation to protect against direct contacts with live parts.

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

 System design has been validated by type tests as per standards IEC 61439-1 and 2 and benefits from the combined experience of Schneider Electric customers over many years.



Electrical characteristics

- Complying with standards IEC 62208 and EN 62208:
- rated insulation level of main busbars: 1000 V
- I_n : 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.
- voltage $U_e = 690V$ with restriction

Mechanical characteristics

- Steel sheet metal
- Cataphoresis 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:
 - IP30: with IP30 cover panels including a door or a cover frame
 - IP31: with IP30 cover panels including a door + gasket
 - IP55: with IP55 cover panels
- Degree of protection against mechanical impacts:
 - IK07: with cover frame
 - IK08: with IP30 door
 - IK10: with IP55 door
- Framework dimensions:
 - four widths:
 - W = 300: cable compartment
 - W = 400: cable compartment or device compartment
 - W = 650: device compartment or cable compartment
 - W = 800: device compartment with busbar compartment or cable compartment
 - two depths: 400, 600 mm
 - height: 2000 mm.
- Indoor cubicles.



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

Prisma PH - LV Switchboards for harsh environments up to 4000 A

When demanding applications and severe conditions require the best, assure your success with Prisma PH.

PD091268b_SE.eps



PD091264b_SE.eps



Technical characteristics

- High grade steel, durable epoxy painting techniques and ingenious design for a remarkable robustness.
- Steel sheet metal, thickness 1.5 mm on panels and 1.8 mm on doors.
- Electrophoresis treatment and hot-polymerised polyester epoxy powder.
- White color RAL 9001.
- Degree of protection: IP55 (IEC 60529).
- Degree of protection against mechanical impacts: IK10 with door (IEC 62262).
- Frame dimensions:
 - 2 widths:
 - 700 mm (for functional units)
 - 300 mm (for vertical busbars and cables ducts)
 - 2 depths:
 - 500 mm (up to 1600 A)
 - 800 mm (up to 4000 A)
 - height: 2000 mm.



Reinforced solution for low voltage switchboards up to 4000 A

More than Prisma, Prisma PH contributes to safety of persons as well as to reliability and continuity of service of the electrical installation. Thanks to its reinforced metal structure, it combines outstanding robustness with versatility and flexibility, by resisting to harsh environments and heavy loads. Prisma PH is ready to perform in any condition. As Prisma, Prisma PH is a solution of kit cubicles for low voltage electrical distribution switchboards:

- the components (switchgear, busbars, etc.) are designed for joint operation
- all the most demanding switchboard configurations have been tested and are IEC standard compliant.



Total safety and reliability

Prisma PH is designed to operate up to 4000 A.

It is fully tested to perform in extreme conditions, and fully compliant with standards IEC 61439-1 and 2, IEC 62208.

Prisma PH withstands seismic vibrations (Standard EDF CRT91C11200, AS1170, EAK 2000, ENDESA 1986, RPA 99 2003, Gore GR 63, Turkish Seismic Code, GOST 17516.1-90).

Seismic tests are performed by an external laboratory, CESI Labs. All documentation required by local authorities and customers in order to get the approval are available.

Seismic resistance for civil installations: 0.7 g APN (rms) and 3.5 g peak, without any extra accessories.



Solutions for continuity of service in electrical installations with Prisma



The right level of continuity of service

All organizations have some sensitivity to the continuity of service of electrical power. For some power is a vital component to their ongoing success and viability. The required level of continuity of service must be considered for each application so that the electrical installation can be optimised accordingly.

The stakes of continuity of service are high. Even a brief electrical distribution failure can have serious consequences on many activities.

Continuity of service solutions for Operation, Maintenance, Evolution

All solutions proposed comply with standards EN 61439-1 and EN 61439-2. The system solutions proposed include Schneider Electric products exclusively to fully ensure compatibility and operation. To ensure safety, solutions with switchgear mounted on plug-in bases, withdrawable chassis and disconnectable or withdrawable mounting plates include safety trip levers that open the circuit breaker if it is removed in closed position.



For highest continuity of services

Functional units with devices on live-disconnectable mounting plates

Disconnectable IS 223: (correspondence with standard IEC 61439-2: WFD)

- > High continuity of service
- > Maximum time to restore power after maintenance: 1 CEhour
- > Live upgrading.

Functional units with devices on live-withdrawable mounting plates

Disconnectable IS 233: (correspondence with standard IEC 61439-2: WWW)

- > High continuity of service
- > Maximum time to restore power after maintenance: 1/4 h
- > Live upgrading.

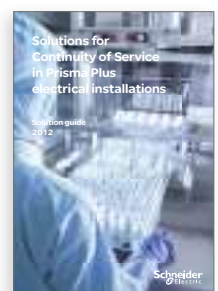


See Linergy HK "Hot plug distribution"

- > Quick connections
- > Panel easily upgradeable
- > Reliable "hot plug" modification or upgrade (LVYED213001EN).



See the solution guide "Solutions for Continuity of Service in Prisma electrical installations" (COM-POWER-LVIS01EN).



Secure power distribution and monitoring solution for operating theatres

To ensure the safety of patients, the availability and quality of electric power are essential.

The electrical installations of operating theatres should enable the continuity of healthcare in all circumstances.



A solution you can trust...

- > All the components of this solution are designed, manufactured, and tested by Schneider Electric to operate together and be implemented by trained and approved partners.
- > Schneider Electric provides maintenance plans and operating procedures linked to this solution.
- > Schneider Electric ensure the continuity of the components throughout the installation's life.

... thanks to secure power distribution...

- > The solution Schneider Electric incorporates an isolation transformer and a continuous insulation monitor in compliance with the required standards to ensure the supply of power to medical equipment in the event of a first insulation fault.
- > The continuity of the electric power supply is ensured thanks to total coordination of all the Schneider Electric components, including an uninterruptible power supply.
- > The Schneider Electric solution is designed, wired and tested to attenuate electromagnetic disturbances in accordance with the IEC 60364-4-41 standard.

... to event monitoring and traceability

The Schneider Electric solution incorporates a monitoring system to:

- > inform maintenance and medical personnel in real time in the event of an electrical fault in the operating room
- > monitor the operating room environment and record all environmental events and data
- > provide data to the hospital building management system.



Enhancing patient safety

Ensuring the satisfactory operation of operating room is essential for a hospital.

Ensuring continuity of electrical service

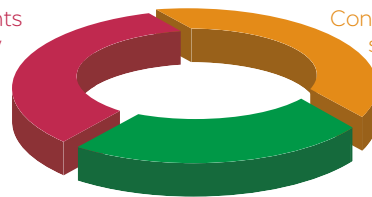
Because nothing must disturb the medical team during operations.

Improving the efficiency of hospital personnel

A controllable environment and perfectly functioning equipment mean more comfort.

Patients safety

Continuity of service



Efficiency of medical personnel



To know more, see the solution guide, ref. DESWED109024.

As the global specialist in energy management, Schneider Electric offers the only solution capable of providing energy availability while addressing staff and cost allocation constraints.

The Power Outage Insight Solution acts as a 24/7 in-house electrical expert. It monitors your critical power availability, issues warnings on power quality, schedules predictive maintenance, and most importantly, in case of a power failure, it performs real-time diagnostics to quickly identify the source of the problem for your staff to restore normal operation.

+ Introducing the solution

With the combination of a few components, the Power Outage Insight solution provides the data you can

- > act on for managing an electrical crisis safely,
- > scheduling predictive maintenance to prevent failures that require switching to emergency conditions and backup power.

For daily functions, our solution provides real-time diagnosis, delivering vital information on the condition of your breakers and loads. In a single snapshot, your personnel can see:

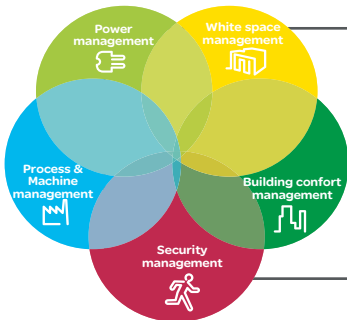
- > the number of trips a breaker has endured,
- > the load on each breaker,
- > the mechanical endurance of your equipment
- > maintenance status.



Standard offer

The POIS offer comprises 2 basic components:

- > Power E-Box, a PC embedded in the main switchboard, connected to Masterpact NT/NW, Compact NS and NSX circuit breakers and Power Meter & ION controllers with a PC software tool for real-time electrical installation monitoring.
- > an I/O module for extra PC functions (Zigbee signal, GMS modules, temperature, vibration or humidity sensors, etc.) for optimal efficiency and inputs.



Introducing a total energy management architecture that can save up to 30 % on CapEx, OpEx, and energy consumption

Power Outage Insight Solution is an efficient, "just-enough" answer for predictive maintenance and safe recovery for electrical failures. For a more powerful energy efficiency solution that is simple to use, ensures reliability, and improves the bottom lines, the answer is EcoStruxure™ integrated system architecture.



To know more, see the solution guide, ref. COM-POWER-POIS-EN



Data Centers and Network



Hospitals



Industry



Green Premium™

Endorsing the most eco-friendly products in the industry



Green Premium™ Product

Green Premium is the only label that allows you to effectively develop and promote an environmental policy whilst preserving your business efficiency. This ecolabel guarantees compliance with the most up-to-date environmental regulations, but it does more than this.

Over 75% of Schneider Electric manufactured products have been awarded the Green Premium ecolabel



Discover what we mean by green

Check your products!

Schneider Electric's Green Premium ecolabel is committed to offering transparency, by disclosing extensive and reliable information related to the environmental impact of its products:

RoHS

Schneider Electric products are subject to RoHS requirements at a worldwide level, even for the many products that are not required to comply with the terms of the regulation. Compliance certificates are available for products that fulfil the criteria of this European initiative, which aims to eliminate hazardous substances.

REACH

Schneider Electric applies the strict REACH regulation on its products at a worldwide level, and discloses extensive information concerning the presence of SVHC (Substances of Very High Concern) in all of these products.

PEP: Product Environmental Profile

Schneider Electric publishes the most complete set of environmental data, including carbon footprint and energy consumption data for each of the lifecycle phases on all of its products, in compliance with the ISO 14025 PEP ecopassport program. PEP is especially useful for monitoring, controlling, saving energy, and/or reducing carbon emissions.

EoLI: End of Life Instructions

Available at the click of a button, these instructions provide:

- Recyclability rates for Schneider Electric products.
- Guidance to mitigate personnel hazards during the dismantling of products and before recycling operations.
- Parts identification for recycling or for selective treatment, to mitigate environmental hazards/ incompatibility with standard recycling processes.

The energy management with Prisma P

Introduction

Presentation

Smart Panels: powerful technologies, easy to implement

In addition to basic functions and enclosures, the Smart Panel solution is enhanced with new features for collecting and transmitting energy data from the main switchboard panel and all subpanels, making it a highly flexible and accurate energy management system.

Smart panels solution

The Smart Panel solution automates energy usage data collection to eliminate time-consuming and error-prone manual meter reading. Automatic metering at the source lets you see exactly how and where the building is using energy. It also performs intelligent cross references of energy usage:

- > by zones (offices, storage, parking, etc.)
- > with usage by type (lighting, heating, hot water for sanitation, etc.)

Energy management has never been simpler

1. Measure

Embedded and stand alone metering & control capabilities

2. Connect

- > Integrated communication interfaces
- > Ready to connect to energy management platforms

3. Save

- > Data-driven energy efficiency actions
- > Real time monitoring and control
- > Access to energy and site information through on-line services



Design

Follow a TVDA methodology to design the digital parts of your switchboard, and deliver features that exceed your customers expectations.



Select

Create the exact list of items (auxiliaries, interfaces, connections) to collect data from each breaker or meter in the switchboard



Order

Find a full description of each and every Enerlin'X device. Together with tips and recommendations to get the best performance.



Assemble

A method to design and assemble digitised switchboards, optimising use of space, electromagnetic compatibility and Prisma system convenience.

1. Measure

Switchboard are the most convenient location to collect data about electrical supplies throughout the building.

Schneider Electric provides best-in-class devices for electrical protection, control, and measurement, as well as efficient switchboard build-up systems. We size create new digital possibilities through better connectivity, thanks to the Enerlin'X system components embedded in our power operating devices.

Power supply and protection monitoring, metering

Masterpact, Compact circuit breakers and switches
Offer reliable protection as well as support energy management by providing energy consumption date, equipment status, and operational support information.

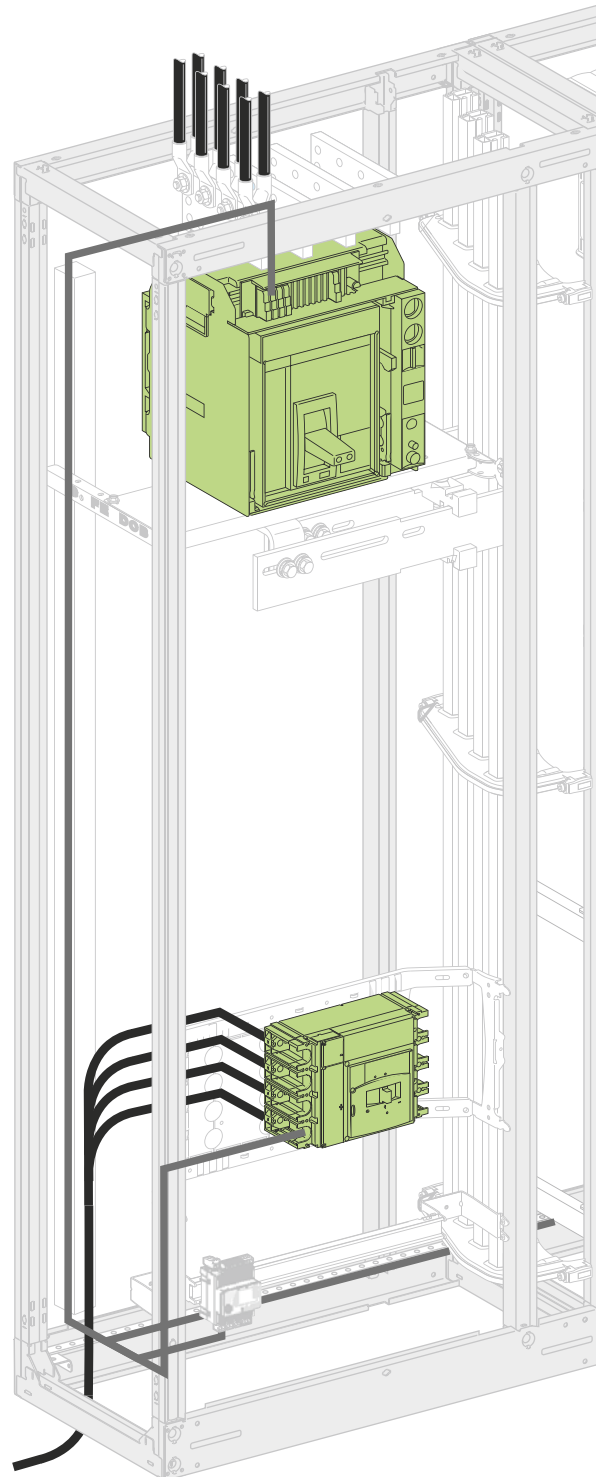


Acti 9 circuit breakers, residual current devices, surge arresters
Each Acti 9 protection devices contributes to electrical supply reliability. Easy-to-fit auxiliaries transmit real-time status to the Enerlin'X system and additional RCA modules enable digitally controlled resetting after a trip.



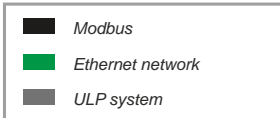
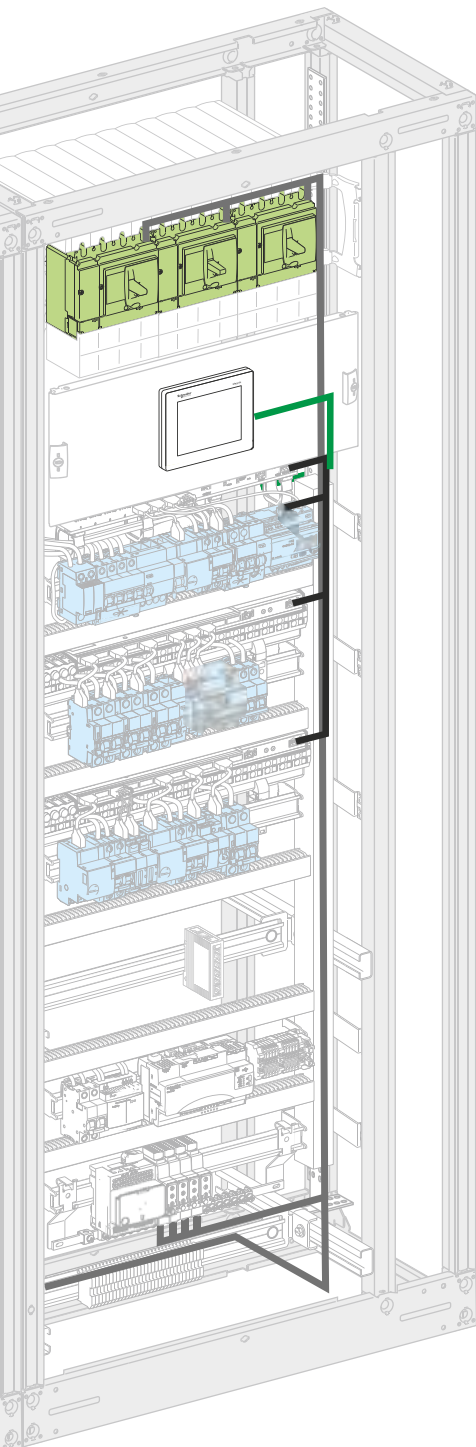
Circuit and load control

Acti 9 contactors and impulse relays, remote controlled Compact and Masterpact
To improve user comfort, lighting or other loads are switched on and off, separately or all together via the digital system.



The energy management with Prisma P

1. Measure



Power supply and protection monitoring, metering

PowerLogics meter

monitor key distribution points 24 hours a day, from generators, substations, and services entrances, to main feeders and loads. Help improve network reliability by tracking real-time power quality equipment status, trading loads, and logging events and alarms.



Acti 9 energy meters

energy meters for a variety of applications: single-phase (IEM2000 series) or three-phase (IEM3000 series) circuits, basic kWh meter for elementary applications to MID-compliant meters for billing applications, and advanced energy meters capable of measuring a variety of electrical parameters.



The energy management with Prisma P

2. Connect

Connecting is easy with Smart Panels.

Ethernet is today the most widespread communication protocol in professional building, providing fast data transmission. Thanks to the Enerlin'X digital system, switchboards can be connected via Ethernet like any other device through an RJ45 socket.

The design of Enerlin'X:

- > grouping of similar functions in the smart components (e.g. Acti 9 Smartlink)
- > error-free cabling, fast connection-disconnection
- > space-savings in the enclosure.

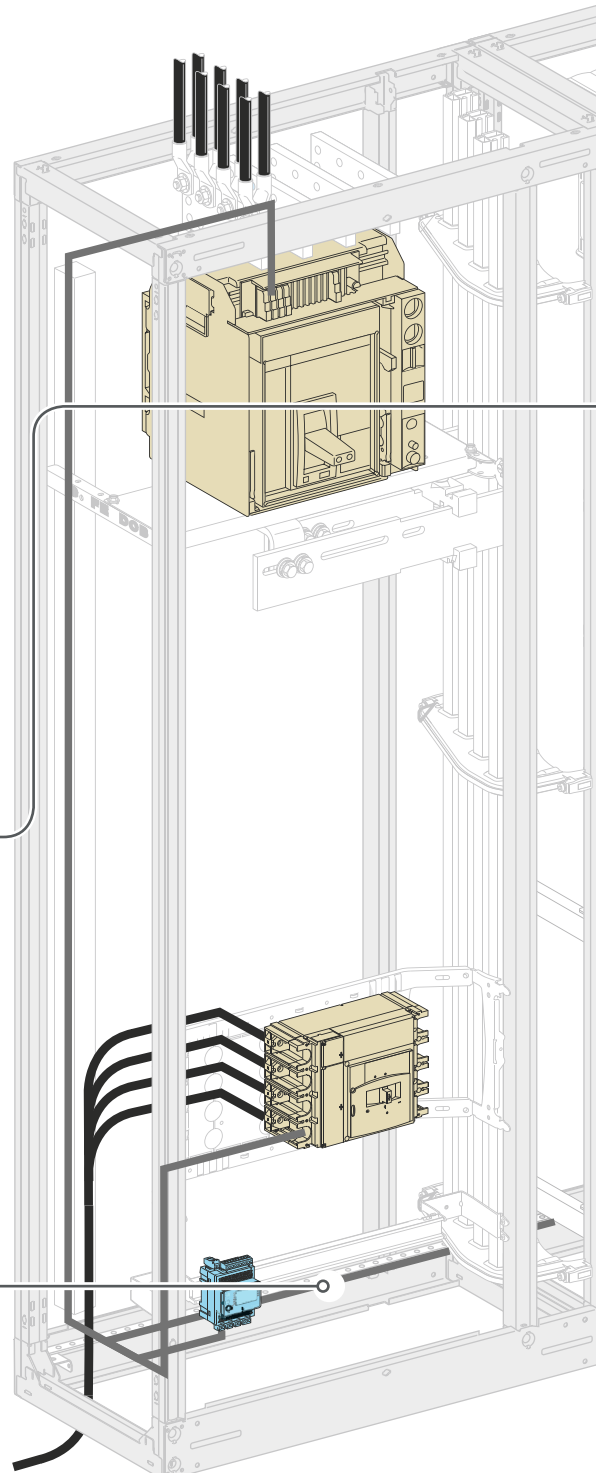
Acti 9 Smartlink

- > Digital interface for Acti 9 or third-party devices.
- > DIN rail clippable, no extra space required; 100 % prefabricated connections.
- > 2 versions: Modbus SL slave or Ethernet + Modbus SL.
- > Automatic e-mail sent upon critical events (configurable).
- > Embedded web pages for energy monitoring & control master.




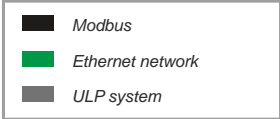
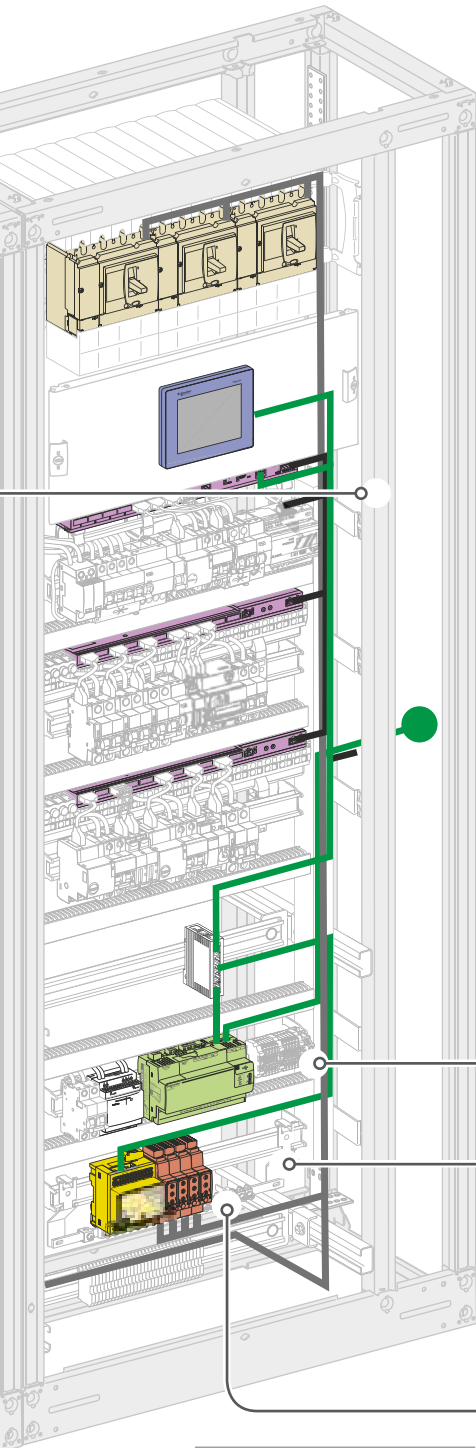
Enerlin'X I/O

Provides tailored additional functions such as withdrawal cradle position



The energy management with Prisma P

2. Connect




Com'X 200 energy data logger

- > Collects data from electrical and other devices throughout the building.
- > Delivers batches of data ready to be processed by StruxureWare™ solutions and online services.


Com'X 510 energy server

- > Collects data from electrical and other devices throughout the building.
- > Provides detailed and global views of energy consumption as soon as as connected, with data accessible via web browser.



Enerlin'X IFM

Modbus connection and data collection for one Compact or Masterpact device



Enerlin'X IFE

- > Ethernet communication interface for power circuit breakers
- > Embedded web pages for energy control, and maintenance
- > Modbus master, with automatic detection and configuration of "slave" devices
- > Switchboard sever aggregates, computes, and displays data from connected either by Modbus SL or Ethernet
- > Automatic e-mail sent upon critical events (configurable)

Ecoreach software: digital management of electrical distribution

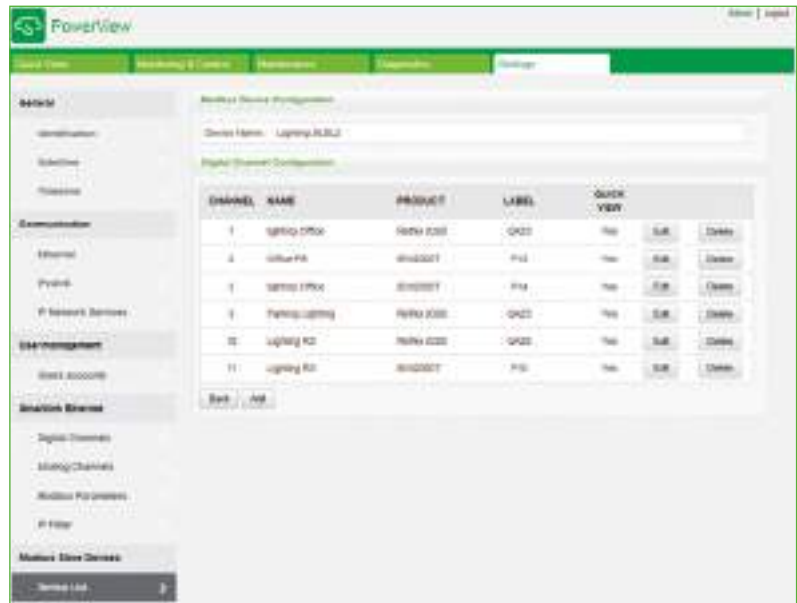
Ecoreach is the final component of Enerlin'X digital system. It provides support for management of the entire digitised electrical network, by handling all functions required at each stage of setup, commissioning, and maintenance.

Project creation and management

- > Performed on or offline
- > Description of electrical and digital networks
- > Preparation of power device settings storage of project data, with attachments

Digital connection and commissioning

- > Auto-detection of all Schneider electric devices in a building
- > Auto-assignment of IP / Modbus adress
- > Digital architecture check sequences, with reports



Electrical network setup

- > Automatic upload of prepared, offline settings into Compact, Masterpact and Powerlogic devices
- > Final adjustments, tests, and checks, with report delivery



Operation and maintenance

- > Consistency checks and change tracking
- > Preventive and predictive maintenance warnings
- > Enerlin'X device firmware upgrades

The energy management with Prisma P

3. Save

Schneider Electric serves the needs of any building, regardless of size and critically, and helps find savings opportunities.

Our solutions provide different mixes of energy, network, and asset management features tailored to each size. Clear visibility of the energy supply system and consumption is provided by locally installed software while online services offer improved mobility and convenience.



Enerlin'X FDM1 28

- > Full monitoring & control of 8 power devices thanks to LCD touchscreen fitted on the front face of the Smart Panel.
- > Access to switchgear settings, status, and measurements.
- > Auto discovery of Modbus SL connected devices.
- > Simple installation, with just a Ø22 mm hole on the switchboard front panel.



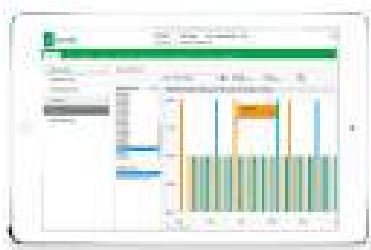
Powerview

User-friendly web pages

User-friendly displays of all data stored in enerlin'X devices, accessible via Ethernet and viewable with web browsers. Includes user-configurable e-mail notification feature.

Remote access

Powerview webpages accessible anytime anywhere through secure, private internet access. User-configurable e-mail notification feature also included.



Com'X 510 web pages

All-in-one energy management for small and medium buildings, allowing you to detect the most important opportunities for savings.

- > Provides dashboards and historical trend charts for consumption, viewable via web browser.
- > Connection to network via WiFi or Ethernet.
- > Aggregates electrical data with gas, steam, air, water.

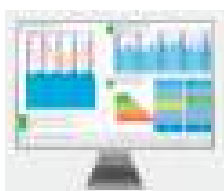


Facility Hero

A handy, digital maintenance and asset management logbook

- > Available via online platform and mobile app (iOS™ & Android™).
- > Freeware with optional premium features.
- > Real-time information available anytime, anywhere.
- > Instant notifications and sharing of expected and unexpected events.

Resource Advisor



Power Monitoring Expert V8



Solutions for large and power-critical buildings

Schneider Electric offers solutions for large and power-critical buildings as well. These solutions provide powerful tools to supervise and maintain building infrastructure and improve energy efficiency.

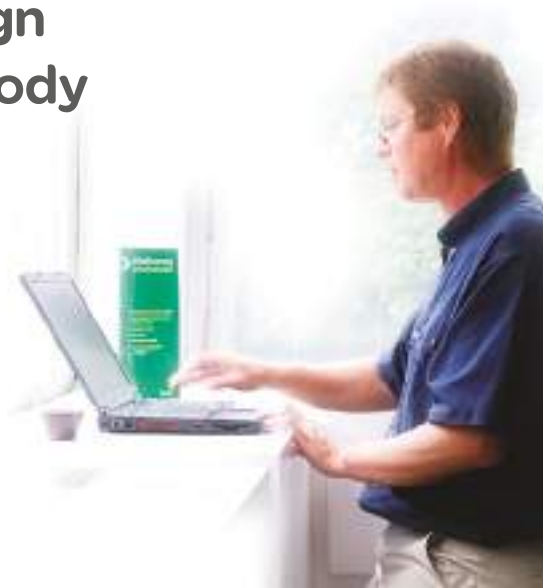
Determining catalogue numbers

Rapsody software



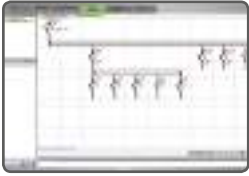


Easy design with Rapsody software

A time-saver in the design and quotation phases.

More flexibility since modifications and upgrades are possible throughout the project.



5 easy steps to design a switchboard

-  **Define** the switchboard's electrical and environmental characteristics, in a few clicks.
-  **Choose and configure** the devices to be installed, with no risk of error.
-  **Customise**, and easily modify the single-line diagram. **Move or duplicate** devices. **Generate** current distribution and connection systems.
-  **Choose the switchboard** and let the software set up the enclosure. A list of mounting and connection accessories is proposed to make mounting work easier.
-  Automatically **export** the information required to make a clear, comprehensive and professional quotation.

Examples of switchboard configurations

Incomer

Masterpact NT1000 3P

Drawout, front connection
Supply via Canalis

Distribution

Lineryg LGY busbars

Outgoing devices

Compact NSX250

Vertical
Fixed, front connection
Toggle

Supply Lineryg FC distribution block

Connection Direct via cables

Compact NSX250

Horizontal
Fixed, front connection
Toggle

Supply Prefabricated connection

Connection Transferred to cable compartment,
W = 400 mm

Compact NSX400

Horizontal
Fixed, front connection
Toggle

Supply Prefabricated connection

Connection Transferred to cable compartment,
W = 400 mm

Acti 9 devices

Supply Lineryg FM 80 A
Lineryg FH

Cable running Cable straps
Trunking

Connection Lineryg TA in the cable
compartment, W = 300 mm

Motor protection devices

Supply Lineryg FH

Cable running Cable straps
Trunking

Connection Lineryg TA in the cable
compartment, W = 300 mm

Enclosure

Cubicle for devices W = 800/650 mm
D = 400 mm

Cable compartment W = 300/400 mm
D = 400 mm

PE115583_35.eps

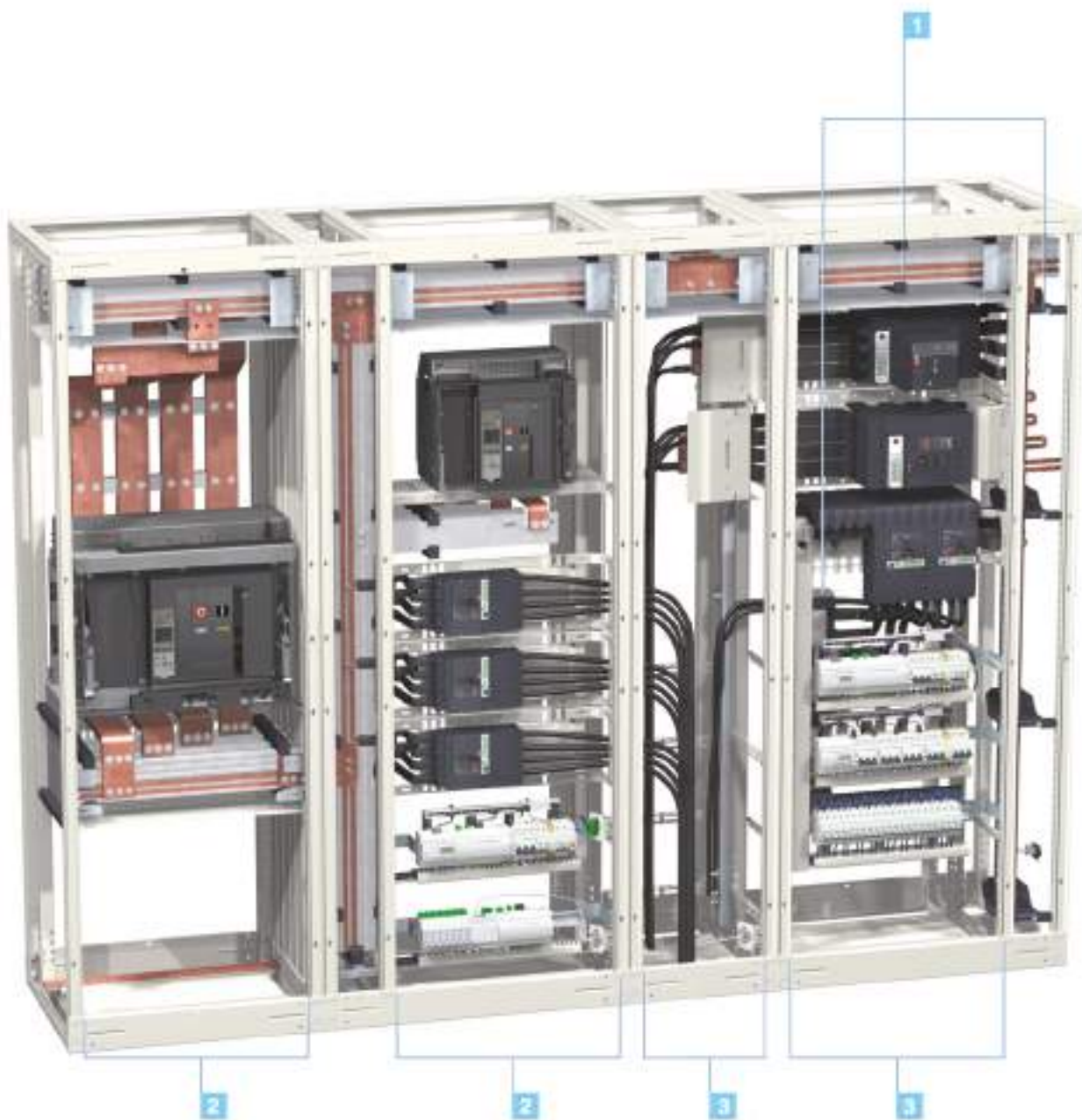


PE115584_35.eps



Examples of switchboard configurations

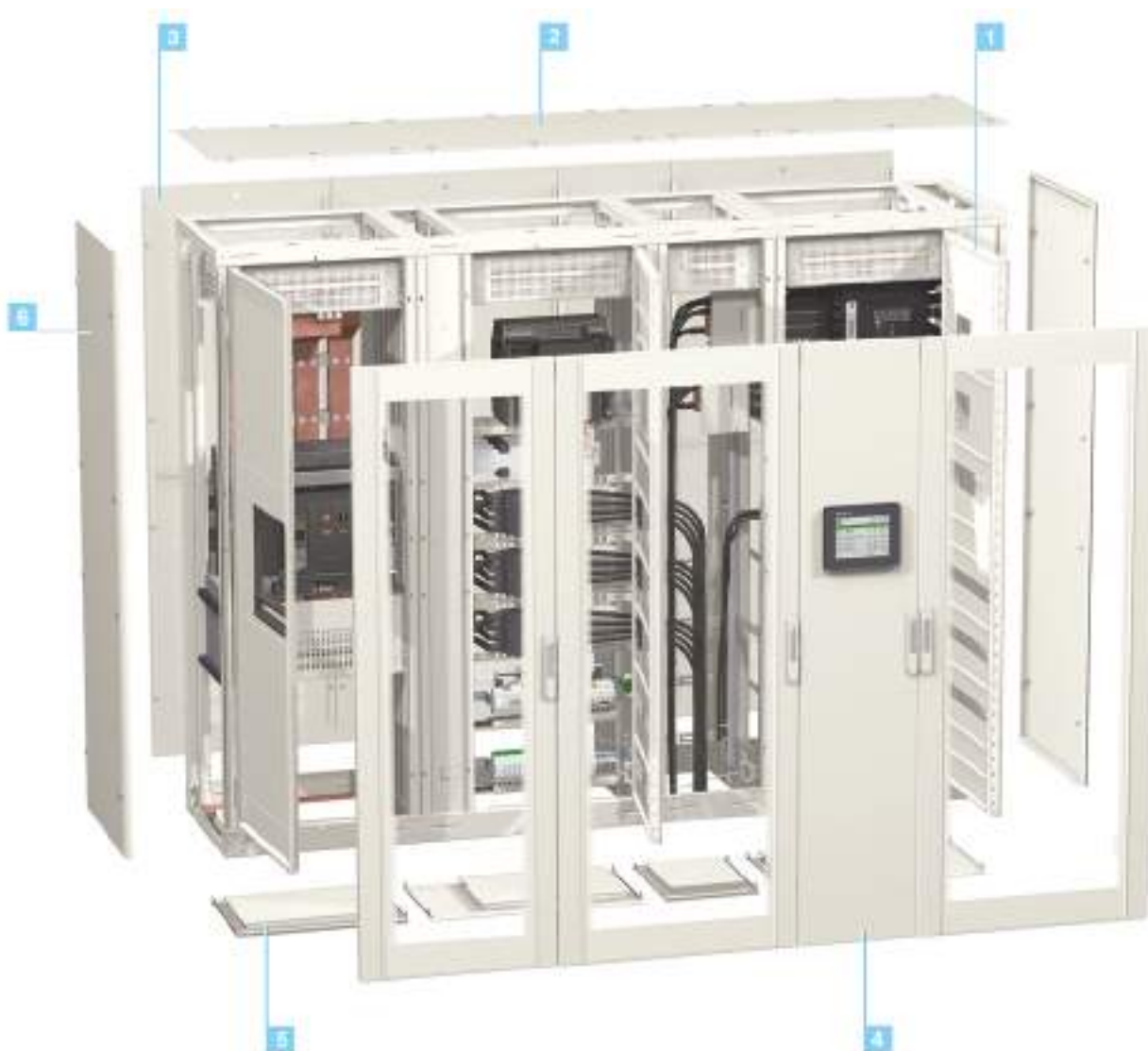
PE 115708.eps



<p>1 Distribution function Linergy LGY busbars in busbar compartment, W = 150 mm Linergy LGYE horizontal busbars Linergy BW busbars</p>	<p>see page B-10 see page B-12 see page B-22</p>
<p>2 Device compartment, W = 650 mm</p>	<p>see page C-11</p>
<p>3 Connection compartment, W = 400 mm</p>	<p>see page C-11</p>

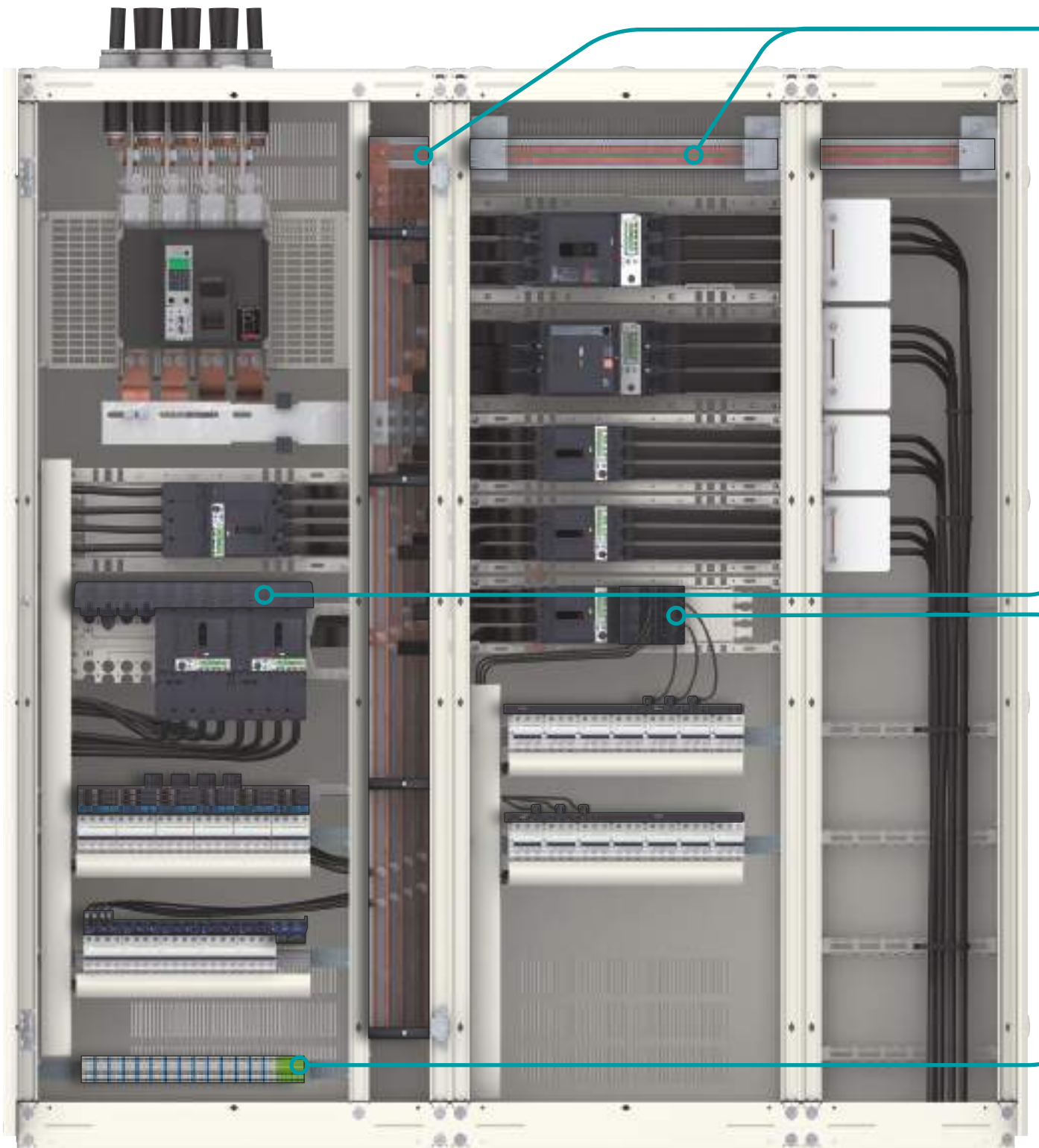
Examples of switchboard configurations

PE115707.eps



1	Hinged front plate support frame	see page C-11
2	Roof	see page C-14
3	Rear panels	see page C-13
4	Front panels	see page C-13
5	Gland plates	see page C-17
6	Side panels	see page C-14

Linergy offers you smart power network



solutions for your switchboard.

Linergy LGY / LGYE / BS

Power busbars



- > Solutions available up to 4000 A
- > Connection everywhere without drilling (with LGY and LGYE profile)

 [page B-12 to B-19](#)

Linergy FC

Quick distribution blocks

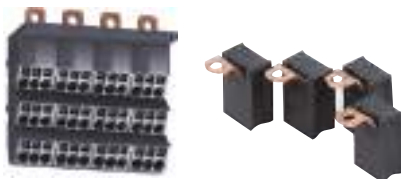


- > Compact (3 x 4P / 4 x 3P) solution
- > Reliable connection
- > Quick connection system dedicated to Compact NSX up to 250 A

 [page B-30](#)

Linergy DP

Distribution blocks

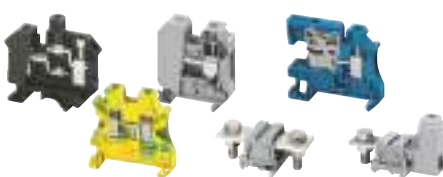


- > Compactness of up to 250 A
- > Simplicity of use
- > Quick connection system dedicated to Compact NSX

 [page B-28](#)

Linergy TR

Terminal blocks and bars



- > Simplicity of use
- > Consistency and cross-functionality guaranteed

 [page B-52](#)

The switchboard, central to the electrical installation

Both the point of arrival of energy and a device for distribution to the site applications, the LV switchboard is the intelligence of the system, central to the electrical installation.

It plays an essential role in the availability of electric power, while meeting the needs of personal and property safety. Its definition, design and installation are based on precise rules; there is no place for improvisation. The IEC 61439 standard aims to better define "low-voltage switchgear and controlgear assemblies", ensuring that the specified performances are reached. It specifies in particular:

- > the responsibilities of each player, distinguishing those of the original equipment manufacturer; the organization that performed the original design and associated verification of an assembly in accordance with the standard, and of the assembly manufacturer - the organization taking responsibility for the finished assembly;
- > the design and verification rules, constituting a benchmark for product certification.

All the component parts of the electrical switchboard are concerned by the IEC 61439 standard. Equipment produced in accordance with the requirements of this switchboard standard ensures the safety and reliability of the installation.

A switchboard must comply with the requirements of standard IEC 61439-1 and 2 to guarantee the safety and reliability of the installation. Managers of installations, fully aware of the professional and legal liabilities weighing on their company and on themselves, demand a high level of safety for the electrical installation.

What is more, the serious economic consequences of prolonged halts in production mean that the electrical switchboard must provide excellent continuity of service, whatever the operating conditions.

The Schneider Electric solution

- > Specify switchboards that comply with standard IEC 61439-1 and 2.
- > Guarantee a level of safety that has been 100 % tested, from the day the switchboard is installed and throughout its service life.
- > Ensure a lasting investment through easy upgrading of the installation in compliance with the standard.
- > Guarantee that the switchboard complies with the technical specifications.

Prisma tested switchboards

The conformity of the switchboard has been tested and proven.

A Prisma switchboard is:

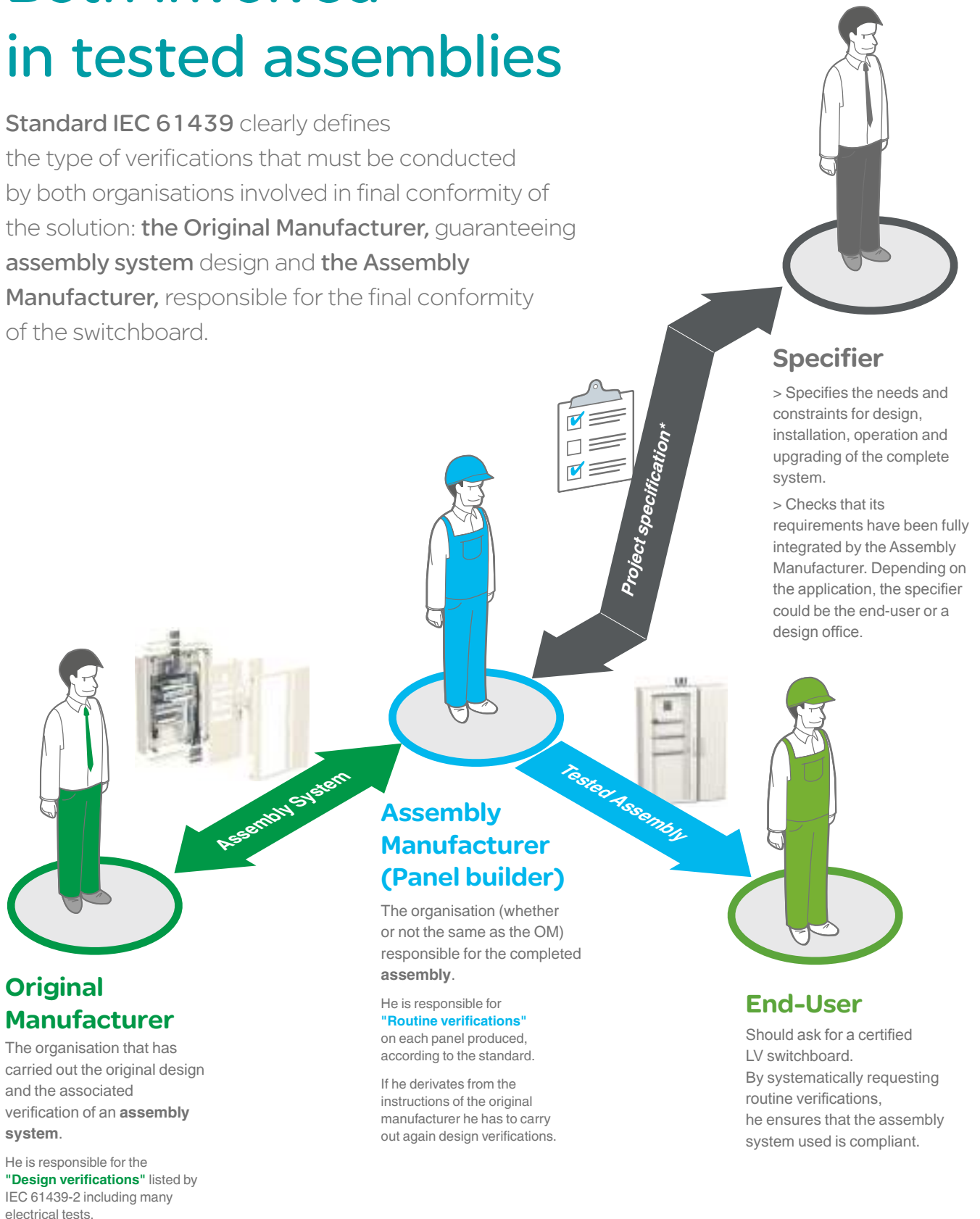
- > made up of Schneider Electric low-voltage devices and components that all comply with the applicable standards;
- > based on configurations in our catalogue;
- > made up of Prisma and Linergy mechanical and electrical components that have been subjected to the verification of original equipment manufacturer;
- > mounted and wired by a panelbuilder in compliance with professional standards;
- > subjected to the individual verification.

Schneider Electric makes available to the panelbuilder everything required to create tested Prisma switchboards, including the basic configurations in the low voltage distribution catalogue, all the documentation for switchboard design and mounting, calculation and design software, etc.

Panelbuilders can demonstrate conformity with standard IEC 61439-1 and 2 by presenting the declarations or certificates of conformity for type tests carried out by independent laboratories (ASEFA, ASTA, KEMA, etc.) and supplied by Schneider Electric. The panelbuilder is responsible for the individual routine verification and delivers the corresponding declarations of conformity.

Original Manufacturer and Assembly Manufacturer: Both involved in tested assemblies

Standard IEC 61439 clearly defines the type of verifications that must be conducted by both organisations involved in final conformity of the solution: **the Original Manufacturer**, guaranteeing **assembly system** design and **the Assembly Manufacturer**, responsible for the final conformity of the switchboard.



The main 10 functions of standard IEC 61439

For each of the following 10 functions, the standard IEC 61439 requires design verifications from the system manufacturer - mainly through type-tests - and routine verifications on each panel from the Panel Builder to achieve 3 basic goals: safety, continuity of service and compliance with end-user requirements.



Safety

Voltage stresses withstand capability

To withstand long term voltages, and transient and temporary overvoltages according to the insulation coordination principles and requirements.

Current-carrying capability

To protect against burns and to withstand temperature rise:

- > when any circuit is continuously loaded, alone, to the specified current
- > when the **assembly** is loaded to the specified current according to the specified load pattern (between circuits and/or as a function of the time).

Short-circuit withstand capability

To withstand the stresses resulting from the prospective short-circuit current and from the associated data (High forces between conductors, temp. rise in a very short time, air ionization, overpressure).

Protection against electric shock

- > Hazardous-live-parts not to be accessible (basic protection)
- > Accessible conductive parts not to become hazardous-live (fault protection).

Protection against risk of fire or explosion

- > Resistance to internal glowing elements
- > **Note:** protection of persons, and optional protection of the **assembly**, against arcing due to internal fault can be specified through a "special test" according to IEC 61641.



Continuity of service

Maintenance and modification capability

Capability to preserve continuity of supply without impairing safety during **assembly** maintenance or modification

- > Electrical condition of the **assembly** or various circuits
- > Speed of exchange of the functional units
- > Test facilities...

Electro-Magnetic compatibility

To properly function (immunity) and not to generate EM disturbances (emission) in specified environmental conditions:

- > Industrial networks or locations (Environment A)
- > Domestic, commercial, and light industrial locations (Environment B).



Compliance with end-user requirements

Capability to operate the electrical installation

To properly function, according to:

- > The electrical diagram of the overall system and related information (voltages, coordination...)
- > The specified operating facilities (e.g. free or restricted access to Man Machine Interfaces, isolation of the outgoing circuits...).

Capability to be installed on site

- > To withstand handling, transport, storage... and installation constraints
- > Capability to be erected and connected (type of enclosure, type, material and cross sectional areas of external conductors).

Protection of the **assembly** against mechanical and atmospheric environmental conditions

- > Presence of water or solid foreign bodies (IP according to IEC 60529)
- > External mechanical impacts (optional IK according to IEC 62262)
- > Indoor or outdoor installation (humidity, UV).

IEC 61439-1 paragraph 11.4

Protection against electric shocks and integrity of protection circuits

The following should be checked visually:

- > presence of protective shields against direct and indirect contacts on live parts;
- > presence of the PE conductor.

The continuity of protection circuits is ensured by compliance with the assembly instructions delivered with each product.

IEC 61439-1 paragraph 11.5

Integration of incorporated components

The assembly manufacturer must comply with the instructions of the original equipment manufacturer for installation and wiring of the components used.

IEC 61439-1 paragraph 11.6

Internal electric circuits and connections

Schneider Electric recommends marking the nut with a tinted acrylic lacquer, indelible and temperature-resistant.

This allows:

- > not only self-checking to check effective tightening to torque;
- > but also identification of any loosening.

IEC 61439-1 paragraph 11.9

Dielectric properties

The main circuits, and the auxiliary and control circuits connected to the main circuit, shall be subjected to the test voltage in accordance.

IEC 61439-1 paragraph 11.10

Wiring, operating performance and function

Verification of wiring and marking conformity with the drawings, parts list and diagram.

Standard individual check sheet

in accordance with the IEC 61439-1 and 2 standard from the assembly manufacturer (panelbuilder)

Job No.:

Switchboard No.:

Drawing No./Rev. No.:

	Chapter	Verified
Degrees of protection provided by enclosures	11.2	<input type="checkbox"/>
Insulation clearances and creepage distances	11.3	<input type="checkbox"/>
Protection against electric shocks and integrity of protection circuits	11.4	<input type="checkbox"/>
Integration of incorporated components	11.5	<input type="checkbox"/>
Internal electric circuits and connections	11.6	<input type="checkbox"/>
Terminals for external conductors	11.7	<input type="checkbox"/>
Mechanical operation	11.8	<input type="checkbox"/>
Dielectric properties	11.9	<input type="checkbox"/>
Wiring, operating performance and function	11.10	<input type="checkbox"/>

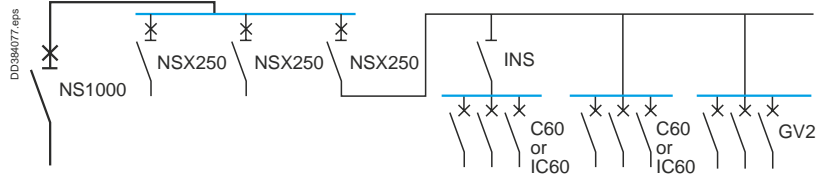
Date of verification:

..... / /

Verifications performed by:

.....

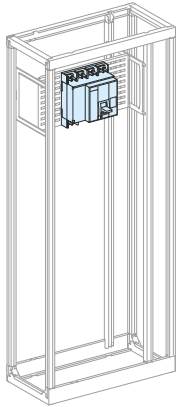
Starting with the electrical diagram: IP30 switchboard



Install the incomer

See page A-19

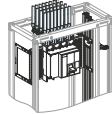
DD380822.eps



- Order
- connection components
 - mounting plates and front plates
 - busbar connections.

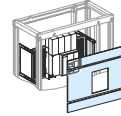
1 Front conn. using cables

DD380878.eps



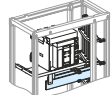
2 Device installation

DD380870.eps



3 Linergy LGY BB conn.

DD380871.eps



Device	Fixed device	
	NS630b/1000	NS1250/1600
Arc chute screen	3P 33596	
	4P 33597	
Vertical connection adapters	3P 33642	
	4P 33643	
Front connection cover	04851	

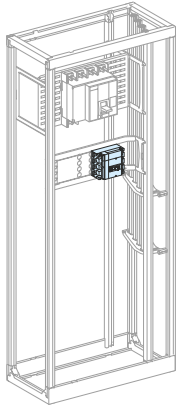
Device	Front connection with cables	
	NS630b/1000	NS1250/1600
Number of devices per row	1	1
No. of vertical modules	12	14
Mounting plates	03482	
Front plates	upstream 03802 [2]	03804 [4]
[No. of vertical modules]	with cut-out 03690 or 03701 [7]	
	downstream 03803 [3]	03803 [3]

Device	Fixed device	
	NS630b/1250	NS1600
connection type	Front connection delivered with the device	
Busbars connection	For Linergy LGY busbars: prefabricated connection	
	3P 04485	04487
	4P 04486	04488
Cover for busbars connection	04926	
	Linergy LGY, LGYE, BS	

Install the Compact devices

See page A-26

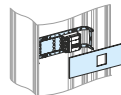
DD380823.eps



- Order
- mounting plates and front plates
 - busbar connections
 - connection accessories.

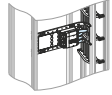
1 Installation

DD380867.eps



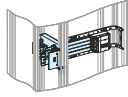
2 Linergy LGY BB conn.

DD380873.eps



3 Connection

DD380874.eps



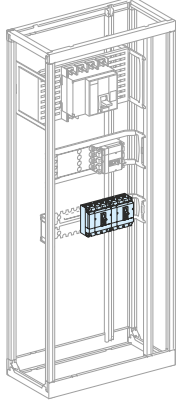
Device	Toggle	
	NSX100/250, Vigi NSX100/250	4P
Number of devices per row	1	1
No. of vertical modules	3	4
Mounting plates	03411	
Front plates	with cut-out 03604 [3]	03606 [4]
[No. of vertical modules]		

Device	Linergy LGY	
	Toggle	4P
	NSX100/250, Vigi NSX100/250	
Prefabricated connection	3P 04423	04424

Device	Toggle		
	NSX100/160	Vigi NSX100/160	NSX250
Number of devices per row	3/4	3/4	3/4
No. of vertical modules	6	8	7
Mounting plates	03420		
Front plates	with cut-out 03243 [5]	03241 [7]	03243 [5]
[No. of vert. mod.]	downstream 03801 [1]	03801 [1]	03802 [2]

See page A-28

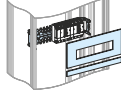
DD380824.eps



- Order
- mounting plates and front plates
 - distribution block
 - connection accessories.

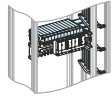
1 Installation

DD380875.eps



2 Linergy LGY BB conn.

DD380876.eps



3 Connection

DD380877.eps



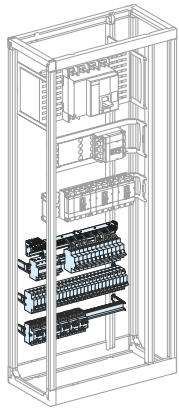
Device	Toggle			
	NSX100/160	Vigi NSX100/160	NSX250	Vigi NSX250
Number of devices per row	3/4	3/4	3/4	3/4
No. of vertical modules	6	8	7	9
Mounting plates	03420			
Front plates	with cut-out 03243 [5]	03241 [7]	03243 [5]	03241 [7]
[No. of vert. mod.]	downstream 03801 [1]	03801 [1]	03802 [2]	03802 [2]

Device	Linergy LGY			
	Toggle	4P	3P	4P
	NSX100/160, Vigi NSX100/160			
	NSX250, Vigi NSX250			
Number of devices	4	3	4	3
Linergy FC distribution blocks (with connection)	04403	04404	04403	04404

Device	Toggle			
	NSX100/160, Vigi NSX100/160	NSX250, Vigi NSX250	3P	4P
Front connection long terminal shields	LV429517	LV429518	LV429517	LV429518
Rear connection short terminal shields	LV429515	LV429516	LV429515	LV429516

Install the modular devices

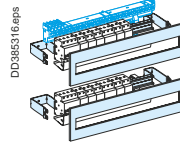
DD385315.eps



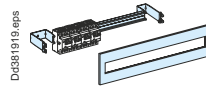
Order the mounting plates and front plates taking into account:

- supply to the rows
- cable running.

1 Acti 9 See page A-48



2 GV2 circuit breaker See page A-71



Device	All modular devices	Modular devices ≤ 40 A
Rail length (modules of 9 mm)	48	48
No. of vertical modules	4	3
Rail (48 modules of 9 mm)	03401	03401
Modular front plates	03204 [4]	03203 [3]
Blanking strip	03220	03220
plate	divisible 03221	03221

Device	Circuit breaker	
	GV2RT - GV2ME - GV2LE	GV3
No. of vertical modules	3	5
Useful length of rail (mm)	432	
Modular rail (adjustable)	03401	03402
Front plates with cut-out [No. of vert. modules]	03203 [3]	03205 [5]

- Linergy FH distribution block see page 51 à 51
- cable running see page 51

Determine the size of the switchboard

- count the number of modules occupied
- determine the number of cubicles
- order the additional plain front plate.

32 modules

1 cubicle

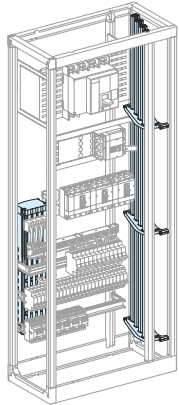
Plain front plate
See page A-76

The capacity of a cubicle is 36 modules.

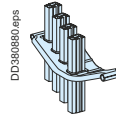
[No. of vert. mod.]	Plain front plate W = 500 mm					
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm
Cat. no.	03801	03802	03803	03804	03805	03806

Plan the distribution system

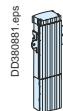
DD385317.eps



1 Linergy LGY busbars See page B-10



2 Linergy BW busbars See page B-22



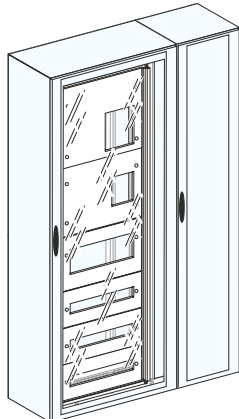
Intensity (A)	Linergy LGY profiles for table		Number of busbar supports l _{cw} (kA rms/1 s)							
	IP ≤ 31	IP > 31	25	30	40	50	60	65	75	85
630	04502	04503								
800	04503	04504								
1000	04504				3					

Designation	Cat. No.
Busbar supports	04651

Linergy BW busbars	160 A	250 A	400 A	630 A
	3P	W = 1000 mm 04111	04112	04113
4P	W = 1400 mm 04116	04117	04118	04119
	W = 1000 mm 04121	04122	04123	04124
	W = 1400 mm 04126	04127	04128	04129

Select the enclosures

DD380827.eps



1 Frameworks

Width (mm)	300	400	650	800	800 (650 + 150)
Base frame					
Cat. no.	08403	08404	08406	08408	08407

2 Hinged front plate support frame

Width (mm)	400	650
Hinged front plate support frame		
Cat. no.	08564	08566

3 Doors

Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
	Plain door	08513	08514	08516
Transparent door	-	08534	08536	08538

4 Rear panels

Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
	Rear panels	08733	08734	08736

5 Side panels

Dimensions (mm)	D = 400	D = 600
	Side panels	08750

6 Roofs

Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
	Plain roof D = 400 mm	08433	08434	08436
Plain roof D = 600 mm	08633	08634	08636	08638

7 Plinth, gland plates, finishing parts, etc.

Prisma functional system

Circuit breakers

Presentation	A-4
Presentation of Masterpact NW/NT	A-5
Masterpact NW 08 to 32	
Cables connection	A-6
Canalis connection	A-8
Masterpact NW 08 to 40	
Dedicated cubicle	A-10
Partial front plate support frames	A-12
Masterpact NT 06 to 16	
Toggle and motor mechanism - Cables connection	A-13
Toggle and motor mechanism - Canalis connection	A-14
Dedicated cubicle 3P	A-15
Compact NS1600b to 3200	
Cables connection	A-18
Compact NS630b to NS1600	
Toggle, rotary and motor mechanism	A-19
Compact NS630b to NS1000	
Horizontal mounting	A-21
Compact NS630b/1600	
Dedicated cubicle	A-22
Presentation of Compact NSX circuit breakers for Prisma P	A-25
Compact NSX100 to NSX630	
Horizontal mounting - Toggle - Fixed	A-26
Horizontal mounting - Toggle - Plug-in	A-27
Compact NSX100 to NSX250	
Vertical mounting - Toggle - Fixed	A-28
Compact NSX400 to NSX630	
Vertical mounting - Toggle - Fixed	A-29
Compact NSX100 to NSX250	
Vertical mounting - Toggle - Plug-in	A-30
Compact NSX400 to NSX630	
Vertical mounting - Toggle - Plug-in	A-31
Compact NSX100 to NSX630	
Horizontal mounting - Rotary handle, motor mechanism - Fixed	A-32
Horizontal mounting - Rotary handle, motor mechanism - Plug-in	A-33
Compact NSX100 to NSX250	
Vertical mounting - Rotary handle, motor mechanism - Fixed	A-34
Compact NSX400 to NSX630	
Vertical mounting - Rotary handle, motor mechanism - Fixed	A-35
Compact NSX100 to NSX250	
Vertical mounting - Rotary handle, motor mechanism - Plug-in	A-36
Compact NSX400 to NSX630	
Vertical mounting - Rotary handle, motor mechanism - Plug-in	A-37
Horizontal mounting - All controls - Withdrawable	A-38
Vertical mounting - All controls - Withdrawable	A-39
Vertical mounting - All controls - Fixed/Plug-in	A-40
Easypact CVS100/630 Horizontal fixed mounting	
Toggle	A-41
Rotary handle	A-42
Easypact CVS100/630 Vertical fixed mounting	
Toggle	A-43
Rotary handle	A-44
Fixed, toggle	A-45

Switch disconnectors

Compact INS-INV630b to 1600 Compact INS-INV2000-2500 **A-46**
Compact INS-INV250 to 630

Horizontal / Vertical - Front handle **A-47**

Modular devices

Modular devices

Acti 9 **A-48**

Circuit breakers

Modular devices Acti 9 ≤ 63 A **A-49**
Modular devices 80/160 A switchboard incomer **A-50**

Source-changeover

Source-changeover Compact / Masterpact **A-51**

Possible combinations Compact NSX100/630, NS630b/1600,
Masterpact NT06/16, NW08/32 **A-52**
Manual or remote-operated or automatic source-changeover

Masterpact NW08/32, front connection S1 device identical to S2 device **A-53**

Masterpact NW08/32, rear connection S1 device identical to S2 device **A-54**

Masterpact NW08/32, front connection S1 device different to S2 device **A-55**

Masterpact NW08/32, rear connection S1 device different to S2 device **A-56**

Masterpact NT06/16, front connection S1 device identical to S2 device **A-57**

Masterpact NT06/16, rear connection S1 device identical to S2 device **A-58**

Masterpact NT06/16, front connection S1 device different to S2 device **A-59**

Compact NS630b to 1000 **A-60**
Manual source-changeover

Compact NSX100/630 **A-61**
Remote-operated source-changeover

Compact NSX100/630 **A-62**
Manual source-changeover

Compact INS-INV250 to 630 Front direct rotary handle **A-63**

Compact INS250 to 630 Complete assembly device **A-64**

Fusegear

Fupact presentation **A-65**
Fupact ISFL

Vertical / 3P Determining the busbars **A-66**
Fupact ISFT

Vertical / 3P Installation on mounting plate or busbars Determining the busbars **A-67**
Fupact INF

Horizontal / Vertical Extended rotary handle **A-68**

Others

Power factor correction equipment	A-69
Industrial control devices	A-71
Metering	
Single-phase and 3-phase kilowatt-hour meters	A-72
Human-switchboard interface	
PowerLogic™ Meters	A-73
Reserve space	A-76
Fixing accessories	A-77
Universal adapter	
Prisma G adapter - Mounting on a plain backplate	A-78
Mounting on a slotted plate - Mounting on a modular rail	A-79
Cable running	A-80
Connection accessories	
Cable-tie supports, lateral and longitudinal cross-members	A-81
Switchboard lighting	A-82

Circuit breakers

Upgradeable Prisma functional units: the best electrical and mechanical + communication consistency.

Functional units include switchgear mounting plates, front plates, connections, barriers for ensuring the best level of continuity of service, safety of life and property.



Masterpact NW08
to NW40
>A-6



Masterpact NT06 to NT16
>A-13



Compact NS
from 1600b to 3200 A
>A-18



Compact NS
from 630b to 1600 A
>A-19



Compact NSX
up to 630 A
>A-26



Easycompact CVS/EZC
from 100 to 630 A
>A-41



Compact INS-INV630-2500 A
>A-46



Compact INS-INV250-630 A
>A-47



Acti 9, NG160, NG125,
C120, iC120, INS40/160
>A-48



Compact/Masterpact source-changeover
>A-52



Compact INS source-changeover
>A-63



Fupact from 32 to 1250 A
>A-66



Industrial control devices, metering >A-71
Human-switchboard interface >A-73



Circuit breakers

★ Presentation

An answer to specific applications

In addition to the traditional features of power circuit breakers (withdrawability, discrimination and low maintenance), Masterpact NT and NW ranges offer built-in communications and metering functions, all in optimised frame sizes.

Masterpact NT and NW incorporate the latest technology to enhance both performance and safety. Easy to install, with user-friendly, intuitive operation and environment-friendly design, Masterpact NT and NW are, quite simply, circuit breakers of their time

Two families and three frame sizes

The range of power circuit breakers includes two families:

- > Masterpact NT, the world's smallest true power circuit breaker, with ratings from 630 to 1600 A
- > Masterpact NW, in two frame sizes, one from 800 to 4000 A and the other from 4000 A to 6300 A.

5 performance levels

- > N1: for standard applications with low short-circuit levels.
- > H1: for industrial sites with high short-circuit levels or installations with two parallel-connected transformers.
- > H2: high-performance for heavy industry where very high short-circuits can occur.

- > H3: for incoming devices supplying critical applications requiring both high performance and a high level of discrimination.
- > L1: for high current-limiting capability and a discrimination level (37 kA) as yet unequalled by any other circuit breaker of its type; intended for the protection of cable-type feeders or to raise the performance level of a switchboard when the transformer power rating is increased.

PB115656.eps



PB115655.eps



✂ Installation

Standardisation of the switchboard

With optimised sizes, the Masterpact NT and NW ranges simplify the design of switchboards and standardise the installation of devices:

- > horizontal or vertical rear connections can be modified on-site by turning the connectors 90° or they can even be replaced by front connection terminals
- > identical connection terminals for the fixed or draw-out version from 800 to 6300 A (Masterpact NW) front connection requires little space because the connectors not increase the depth of the device.

Practical installation solutions

The Masterpact NW range further improves the installation solutions that have built the success of its predecessors: 115 mm pole pitch for NW, 70 mm pole pitch for NT

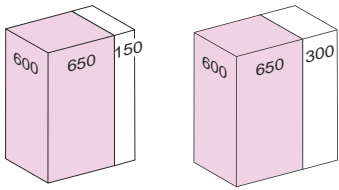
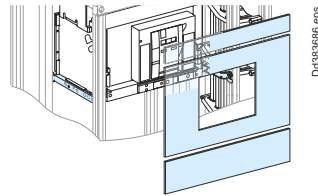
- > incoming connection to top or bottom terminals: horizontal or vertical, rear or front connection.

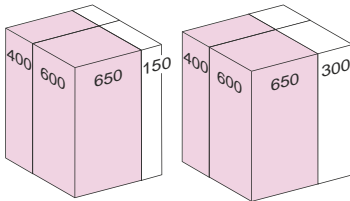
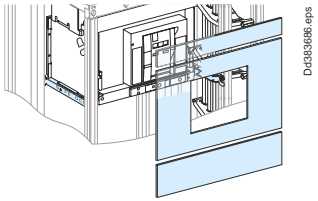
PB115620_60.eps





For more informations, you can consult Masterpact NT/NW catalogue, ref. LVPED208008_EN.

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		NW08/16	NW20/32	NW08/16	NW20/32
Number of devices per row		1	1	1	1
No. of vertical modules ⁽¹⁾		18	19	19	20
Mounting plates		03500	03500	03500	03500
Front plates [No. of vertical modules]	upstream	03804 [4]	03805 [5]	03804 [4]	03805 [5]
	with cut-out	03711 [9]	03711 [9]	03710 [10]	03710 [10]
	downstream	03805 [5]	03805 [5]	03805 [5]	03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		NW08/16	NW20/32	NW08/16	NW20/32
Number of devices per row		1	1	1	1
No. of vertical modules		14	14	15	15
Mounting plates		03500	03500	03500	03500
Front plates [No. of vertical modules]	with cut-out	03711 [9]	03711 [9]	03710 [10]	03710 [10]
	downstream	03805 [5]	03805 [5]	03805 [5]	03805 [5]


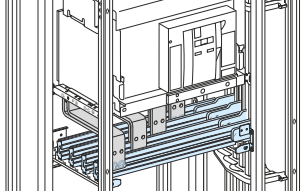
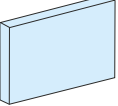

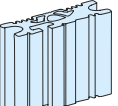
Connection		Upstream on incomer	
			
Devices		Fixed device	Withdrawable device
		NW08/32	NW08/32
Type of terminals		Vertical rear connections supplied with the device	
Connection		must be made ⁽²⁾	
Front connection	bar supports	2 x 04694 + 04678	
	cables cover	04861	
Rear connection	bar supports	2 x 04694	
	cables cover	04863	

(1) For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for NW 3200A. Select downstream plain front plate (03806).

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Circuit breakers

Distribution		Downstream on Linergy LGY, LGYE or BS busbars					
							
Devices		Fixed and withdrawable NW08/16		Fixed and withdrawable NW20/25		Fixed and withdrawable NW32	
		3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device.					
For vertical busbar Linergy BS 	Connection	Must be made according to the busbar drawings supplied by Schneider Electric.					
	Joint	-	-	Order one joint per phase: 1 joint for busbars, W = 50/60 mm (04640), 1 joint for busbars, W = 80/100 mm (04641).			
	Free support	2 x 04662 For I _{cw} ≥ 75 kA rms, add an additional free support 04662 .					
	Cover	04926 + 04927					
For vertical busbar Linergy LGY 	Connection	04493	04494	must be made according to the busbar drawings supplied by Schneider Electric.			
	Joint	04683	04684	-			
	Free support	2 x 04662 For I _{cw} ≥ 75 kA rms, add an additional free support 04662 .					
	Cover	04925 + 04928		04926 + 04927			
For vertical busbar Linergy LGYE ⁽¹⁾ 	Connection	-	-	04495	04496	04497 ⁽²⁾	04498 ⁽²⁾
	Joint	-	-	3 x 04685	4 x 04685	3 x 04687	4 x 04687
	Cover	04925 + 04928					

(1) For LGYE 08/25, use a duct W = 150 mm. For LGYE 32/40, use a duct W = 300 mm.

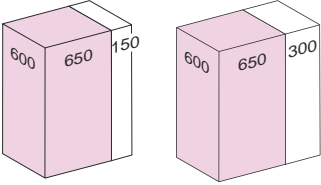
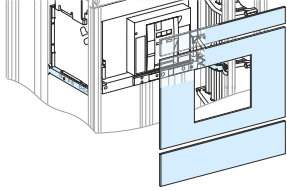
(2) One additional module is required, select 03806 plain front plate for downstream.

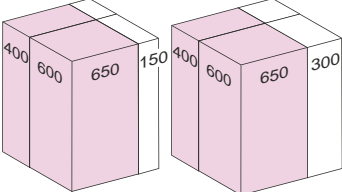
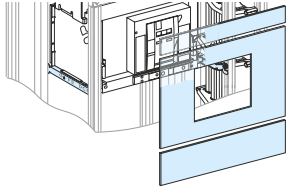
Note: to make measurements:


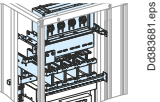
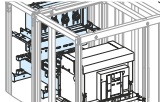
■ Install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (03801) or install a Micrologic control unit capable of displaying the values.

Selection of Linergy LGY: see page B-14, **Linergy LGYE:** see page B-15, **Linergy BS:** see page B-16.

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		NW08/16	NW20/32	NW08/16	NW20/32
Number of devices per row		1	1	1	1
No. of vertical modules ⁽¹⁾		27	28	27	28
Mounting plates		03500	03500	03500	03500
Front plates [No. of vertical modules]	upstream	03805 [5] 2 x 03804 [8]	2 x 03805 [10] 03804 [4]	3 x 03804 [12]	03805 [5] 2 x 03804 [8]
	with cut-out	03711 [9]	03711 [9]	03710 [10]	03710 [10]
	downstream	03805 [5]	03805 [5]	03805 [5]	03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		NW08/16	NW20/32	NW08/16	NW20/32
Number of devices per row		1	1	1	1
No. of vertical modules		16	16	17	17
Mounting plates		03500	03500	03500	03500
Front plates [No. of vertical modules]	upstream	03804 [4] + 03803 [3]	03804 [4] + 03803 [3]	03804 [4] + 03803 [3]	03804 [4] + 03803 [3]
	with cut-out	03711 [9]	03711 [9]	03710 [10]	03710 [10]

Connection		Upstream on incomer											
													
Devices		Fixed device			Withdrawable device								
		NW08/16	NW20/25	NW32	NW08/16	NW20/25	NW32	NW08/16	NW20/25	NW32	NW08/16	NW20/25	NW32
Type of terminals		Vertical rear connections supplied with the device											
Canalis support		03561											
Canalis interface ⁽²⁾		3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
		04715	04716	04725	04726	04735	04736	04715	04716	04725	04726	04735	04736
Front connection	Bar supports	2 x 04694 + 04678											
	Extension bars	must be made ⁽³⁾											
	Canalis Cover	04871 + 04861											
Rear connection	Bar supports	2 x 04694											
	Extension bars	must be made ⁽³⁾											
	Canalis Cover	04871 + 04863											


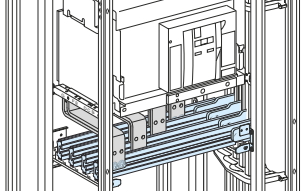
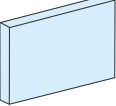

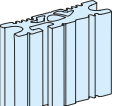
(1) For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for NW 3200A. Select downstream plain front plate (03806).

(2) To tight the screws of the Canalis interface use the special tool 87808.

(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Circuit breakers

Distribution		Downstream on Linergy LGY, LGYE or BS busbars					
							
Devices		Fixed and withdrawable NW08/16		Fixed and withdrawable NW20/25		Fixed and withdrawable NW32	
		3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device.					
For vertical busbar Linergy BS 	Connection	Must be made according to the busbar drawings supplied by Schneider Electric.					
	Joint	-	-	Order one joint per phase: 1 joint for busbars, W = 50/60 mm (04640), 1 joint for busbars, W = 80/100 mm (04641).			
	Free support	2 x 04662 For I _{cw} ≥ 75 kA rms, add an additional free support 04662 .					
	Cover	04926 + 04927					
For vertical busbar Linergy LGY 	Connection	04493	04494	must be made according to the busbar drawings supplied by Schneider Electric.			
	Joint	04683	04684	-			
	Free support	2 x 04662 For I _{cw} ≥ 75 kA rms, add an additional free support 04662 .					
	Cover	04925 + 04928		04926 + 04927			
For vertical busbar Linergy LGYE ⁽¹⁾ 	Connection	-	-	04495	04496	04497 ⁽²⁾	04498 ⁽²⁾
	Joint	-	-	3 x 04685	4 x 04685	3 x 04687	4 x 04687
	Cover	04925 + 04928					

⁽¹⁾ For LGYE 08/25, use a duct W = 150 mm. For LGYE 32/40, use a duct W = 300 mm.

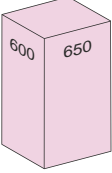
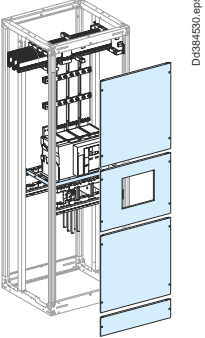
⁽²⁾ One additional module is required, select 03806 plain front plate for downstream.


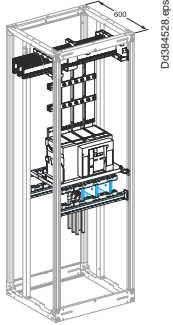
Note: to make measurements:

Install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (03801) or install a Micrologic control unit capable of displaying the values.

Selection of Linergy LGY: see page B-14, **Linergy LGYE:** see page B-15, **Linergy BS:** see page B-16.

Circuit breakers

Mounting		Dedicated cubicle			
					
Devices		Fixed device		Withdrawable device	
		NW08/32	NW40 ⁽²⁾	NW08/32	NW40 ⁽²⁾
Number of devices per row		1	⁽²⁾	1	⁽²⁾
No. of vertical modules		36	⁽²⁾	36	⁽²⁾
Mounting plates		03500	⁽²⁾	03500	⁽²⁾
Front plates					
[No. of vertical modules]		upstream ⁽¹⁾ 03808 [12]	⁽²⁾	03808 [12]	⁽²⁾
		with cut-out 03711 [9]	⁽²⁾	03710 [10]	⁽²⁾
		downstream 03808 [12] + 03803 [3]	⁽²⁾	03808 [12] + 03802 [2]	⁽²⁾

Connection		Bottom using cables	
			
Devices		Fixed/withdrawable	
		NW08/32	NW40 ⁽²⁾
Type of terminals		Vertical rear connectors	⁽²⁾
Terminal extension bars for connection		must be made ⁽³⁾	⁽²⁾
Terminal extension bar supports		04694 x 2	⁽²⁾
Cables cover		04861	⁽²⁾

⁽¹⁾ One or two 3-module front plates for 72 x 72 and 96 x 96 mm measurement devices can be installed just above the cut-out front plate:


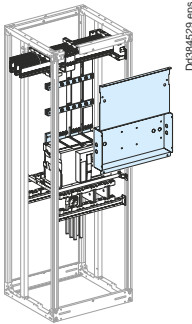



- 1 3-module front plate + 1 plain front plate 03807 (9 modules)
- 2 3-module front plates + 1 plain front plate 03806 (6 modules)

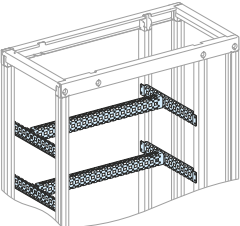
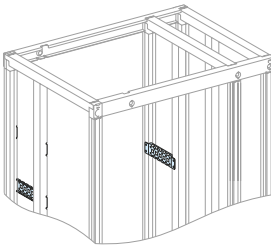
⁽²⁾ Contact Schneider Electric for 4000 A dedicated cubicle.

⁽³⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

Human-switchboard interface, see from page A-73.

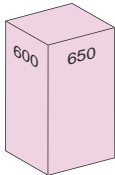
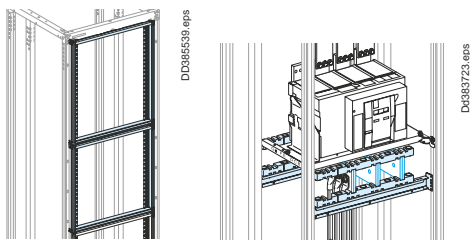
Circuit breakers

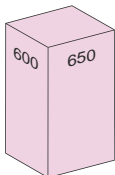
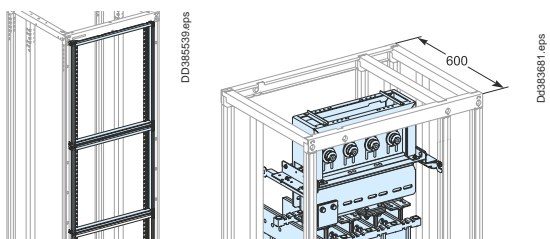
Distribution	Connection to horizontal busbars Linergy LGYE				Connection to horizontal busbars Linergy BS		
							
Devices	Fixed/withdrawable						
Type of terminals	NW08/16	NW20/25	NW32	NW40 ⁽¹⁾	NW08/25	NW32	NW40 ⁽¹⁾
	Front connection				Front connection		
Spacing rods for flat bars	04690 x 2	04690 x 2	04690 x 2	-	04690 x 2	04690 x 2	-
	<i>Connection must be made ⁽²⁾</i>				<i>Connection must be made ⁽²⁾</i>		
Connection	-				-		
horizontal 3200 A	-				04637 ⁽³⁾	04637 ⁽³⁾	-
mounting hardware	-				-	04642	-
Busbar cover ⁽⁴⁾	04860	04860	04860	-	04860	04860	-
							

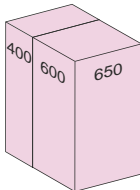
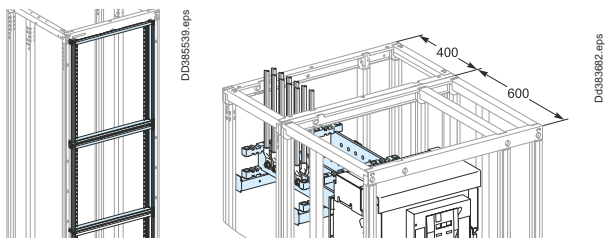
Accessories	
	
	
Cross-members	
Catalogue number	03584
Characteristics	Set of 2 For 650 mm wide and 400 mm deep cubicle
	03586
	Set of 2 W = 200 mm, can be added to the 400 mm cross-members for frameworks that are 600 mm deep. They can also be installed separately

⁽¹⁾ Contact Schneider Electric for 4000 A dedicated cubicle.
⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.
⁽³⁾ Catalogue number 04637 includes 1 connection only. Order 1 connection per phase.
⁽⁴⁾ The cover is compulsory behind front plates designed for measurement devices.

Circuit breakers

Mounting		Front connection with cables in dedicated cubicle	
			
Devices	Withdrawable device NW08/32		
No. of vertical modules	36 ⁽³⁾		
Mounting plates	03500		
Front plates [No. of vertical modules]	upstream	2 x 03806 [12]	
	with cut-out	03709 [10]	
	downstream	2 x 03806 [12]	
1/3 front plate support frame	08560 ⁽¹⁾ + 2 x 08562 ⁽²⁾		
Cover	04861		

Mounting		Canalis front connection	
			
Devices	Withdrawable device NW08/16		NW20/32
No. of vertical modules	27 ⁽³⁾		28 ⁽³⁾
Mounting plates	03500		03500
Front plates [No. of vertical modules]	upstream	3 x 03804 [12]	2 x 03805 [10] + 03802 [2]
	with cut-out	03709 [10]	03710 [10]
	downstream	03804 [4]	03804 [4]
1/3 front plate support frame	08560 ⁽¹⁾ + 2 x 08562 ⁽²⁾		08560 ⁽¹⁾ + 2 x 08562 ⁽²⁾
Cover	04861		04861

Mounting		Rear connection with cables	
			
Devices	Withdrawable device NW08/32		
No. of vertical modules	15 ⁽³⁾		
Mounting plates	03500		
Front plates [No. of vertical modules]	upstream	-	
	with cut-out	03709 [10]	
	downstream	03804 [4]	
1/3 front plate support frame	08560 ⁽¹⁾ + 2 x 08562 ⁽²⁾		

(1) 1/3 front plate support frame 10 modules.

(2) 1/3 front plate support frame 12 modules.

(3) Modularity includes the space of one module between each front plate support frame.

Circuit breakers

Mounting		Front connection with cables			
Devices		Fixed device		Withdrawable device	
		NT06/10	NT12/16	NT06/10	NT12/16
Number of devices per row		1	1	1	1
No. of vertical modules		12	14	13	15
Mounting plates		03484	03484	03483	03483
Front plates		upstream	03802 [2]	03804 [4]	03802 [2]
[No. of vertical modules]		with cut-out	03692 [7]	03692 [7]	03691 [8]
		downstream	03803 [3]	03803 [3]	03803 [3]

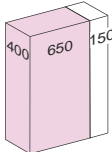
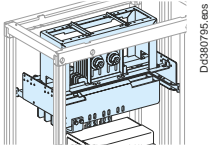
Mounting		Rear connection with cables			
Devices		Fixed device		Withdrawable device	
		NT06/16		NT06/16	
Number of devices per row		1		1	
No. of vertical modules		11		11	
Mounting plates		03484		03483	
Front plates		upstream	03801 [1]	-	
[No. of vertical modules]		with cut-out	03692 [7]	03691 [8]	
		downstream	03803 [3]	03803 [3]	

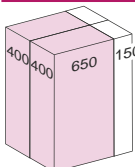
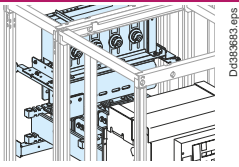
Connection		Upstream on incomer			
Devices		Fixed device		Withdrawable device	
		NT06/10	NT12/16	NT06/10	NT12/16
		3P 4P	3P 4P	3P 4P	3P 4P
Front connection		Front connections supplied with the device			
Type of terminals		33642 (2) 33643 (2) 33642 (2) 33643 (2)			
Vertical connection adaptaters		33642 (2) 33643 (2) 33642 (2) 33643 (2)			
Cable-lug adaptaters		Direct 33644 (2) 33645 (2) 33644 (2) 33645 (2)			
Spacing rods		- 04691 - 04691			
Arc-chute cover		47335 47336 47335 47336			
Cables cover		04852			
Rear connection		Vertical rear connections supplied with the device			
Type of terminals		2 x 04693			
Terminal extension bar support		04854			
Cables cover		must be made (1)			
Extension bars					


Distribution		Downstream on Linergy LGY or BS busbars			
Devices		Fixed device		Withdrawable device	
		NT06/12	NT16	NT06/12	NT16
		3P 4P	3P 4P	3P 4P	3P 4P
Type of terminals		Front connections supplied with the device			
Busbars connection		For Linergy LGY busbars: prefabricated connection			
		04475	04476	04489	04490
		For Linergy BS busbars: must be made (1)			
Free support for busbars connection		For Linergy BS busbars: 2 x 04662			
Cover for busbars connection		04926			


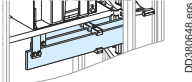
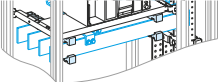
(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.
(2) Vertical connection adaptaters and cable-lug adaptaters and CT, are not compatible with input voltage $\geq 500V$ due to mandatory barriers installation (33648 or 33768)
Note: to make measurements: install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (03801) or install a Micrologic control unit capable of displaying the values.
Selection of Linergy LGY: see page B-14, **Linergy LGE:** see page B-15, **Linergy BS:** see page B-16.

Circuit breakers

Mounting		Canalis front connection			
					
Devices		Fixed device		Withdrawable device	
		NT06/12	NT16	NT06/12	NT16
Number of devices per row		1	-	1	-
No. of vertical modules		17	-	18	-
Mounting plates		03484		03483	
Front plates [No. of vertical modules]	upstream	03804 [4] + 03803 [3]		03804 [4] + 03803 [3]	
	with cut-out	03692 [7]		03691 [8]	
	downstream	03803 [3]		03803 [3]	

Mounting		Canalis rear connection			
					
Devices		Fixed device		Withdrawable device	
		NT06/16		NT06/16	
Number of devices per row		1		1	
No. of vertical modules		16		16	
Mounting plates		03484		03483	
Front plates [No. of vertical modules]	upstream	03806 [6]		03805 [5]	
	with cut-out	03692 [7]		03691 [8]	
	downstream	03803 [3]		03803 [3]	

Connection		Upstream on incomer							
									
Devices		Fixed device				Withdrawable device			
		NT06/12		NT16		NT06/12		NT16	
		3P	4P	3P	4P	3P	4P	3P	4P
Canalis support		03561		-		-		-	
Canalis interface ⁽²⁾		04703	04704	04703	04704	04703	04704	04703	04704
Front connection		Front connections supplied with the device							
Type of terminals									
Canalis/device connection		04711	04712	-	-	04711	04712	-	-
Arc-chute cover		47335	47336	-	-	-	-	-	-
Canalis cover		04871 + 04852		-		04871 + 04852		-	
Rear connection		Vertical rear connections supplied with the device							
Type of terminals									
Terminal extension bar support		2 x 04693				-			
Canalis/device connection		04713	04714	04713	04714	04713	04714	04713	04714
Cable cover		04871 + 04854							
Extension bars		must be made ⁽¹⁾							

Distribution		Downstream on Linergy LGY or BS busbars							
									
Devices		Fixed device				Withdrawable device			
		NT06/12		NT16		NT06/12		NT16	
		3P	4P	3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device							
Busbars connection		For Linergy LGY busbars: prefabricated connection							
		04475	04476	04489	04490	04477	04478	04491	04492
		For Linergy BS busbars: must be made ⁽¹⁾ .							
Free support for busbars connection		For Linergy BS busbars: 2 x 04662							
Cover for busbars connection		04926							

⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

⁽²⁾ To tight the screws of the Canalis interface use the special tool 87808.

Note: to make measurements: install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (03801) or install a Micrologic control unit capable of displaying the values.

Selection of Linergy LGY: see page B-14, **Linergy LGYE:** see page B-15, **Linergy BS:** see page B-16.

Functional system

Functional units

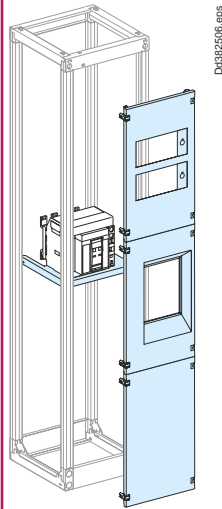
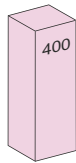
W = 400 mm

Circuit breakers

Masterpact NT 06 to 16

Dedicated cubicle 3P

Mounting



DD382506 eps

Devices	Fixed device NT06 to NT16	Withdrawable device
Number of devices per cubicle	1	1
No. of vertical modules	36	36
Mounting plates	03489	03488
Front plates [No. of vertical modules]	with cut-out 03698 [11]	03699 [11]
	upstream ⁽¹⁾ cut-out for 72 x 72 or 96 x 96 mm 03723 [13]	03723 [13]
	or plain 03722 [12]	03722 [12]
	downstream ⁽¹⁾ plain 03722 [12]	03722 [12]

Measurement-device installation

Measurement devices are installed on a front plate (03723) using plastic mounting plates with cut-outs. The front plate can hold:

- six 72 x 72 mm cases
- or four 96 x 96 mm cases + 2 switches.

Number and type of devices per row	Metal front plate with cut-out	No. of vertical modules	Plastic mounting plates with cut-out	Blanking plate or device support
------------------------------------	--------------------------------	-------------------------	--------------------------------------	----------------------------------

Mounting on interface with plastic mounting plates

3 x 72 x 72 Vigirex and other devices 72 x 72 without switch	<p>DD382670 eps</p>	13	<p>DD385466 eps</p>	<p>DD385468 eps</p>	To blank-off or install: - from 1 to 4 buttons ø 16 or 22 mm - 1 device 45 x 45
2 x 96 x 96 Power Meter and other devices 96 x 96 with switch			<p>DD385467 eps</p>	<p>DD385468 eps</p>	To blank-off or install: - 1 to 4 buttons ø 16 or 22 mm - 1 device 45 x 45 - 1 device 72 x 72
Characteristics	03723		03903	03901	

- Installation of three devices (72 x 72 mm cases) using plastic mounting plates (03902) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (03903) on a hinged front plate (03723)
- The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices.
Knock-outs for 03900: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device.
Knock-outs for 03901: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device.

(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.

Functional system


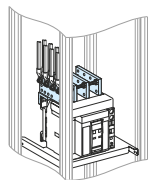
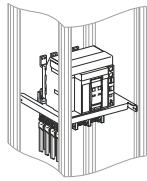



Functional units

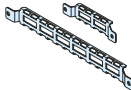
W = 400 mm

Circuit breakers

Masterpact NT 06 to 16

Dedicated cubicle 3P

Connection		Upstream on incomer	
	 Dc9382672.eps	 Dc9382669.eps	
Devices	Fixed device	Withdrawable device	
	NT06 to NT16		
Type of terminals	Front connection	Front connection	
			
Arc-chute cover	47335	-	
			
Vert. conn. adapters	33642 ⁽¹⁾	33642 ⁽¹⁾	
Cable-lug adapters	33644 ⁽¹⁾	33644 ⁽¹⁾	
Spacing rods	04691	04691	
			

Accessories			
	 Dc9382513.eps	 Dc9382514.eps	
	W = 400	D = 400	D = 600
4 cable tie supports for framework	08774	08794	08794 + 08796

⁽¹⁾ Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V.

Functional system


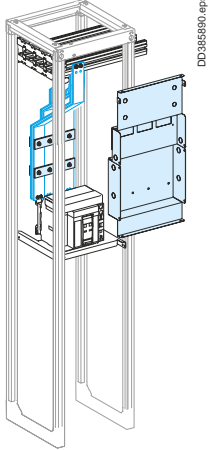
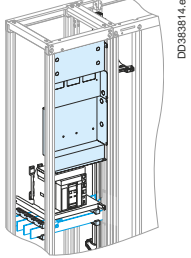

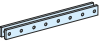

Functional units

W = 400 mm

Circuit breakers

Masterpact NT 06 to 16

Dedicated cubicle 3P

Distribution	Connection to horizontal busbars Linergy LGYE	Connection to horizontal busbars Linergy BS	Connection to vertical busbars Linergy LGY or BS
			
Devices	Fixed/withdrawable device	Fixed/withdrawable device	Fixed/withdrawable device
	NT06 to NT16		NT06 to NT16
Type of terminals	Front connection	Front connection	Front connection
			
Support	2 x 04692	2 x 04692	04662
			
Barrier ⁽¹⁾	04855	04855	04855
			
Horizontal-busbar connections	must be made ⁽²⁾	must be made ⁽²⁾	-
10 mm thickness bars	-	04636 ⁽³⁾	-
Vertical-busbar connections	-	-	must be made ⁽²⁾
Free support	-	-	04662

⁽¹⁾ A barrier must be installed behind front plate 03723 when measurement devices are installed.

⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

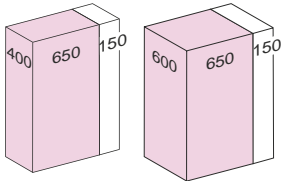
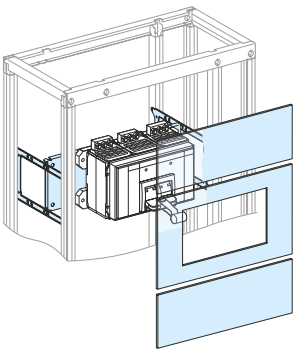
⁽³⁾ Catalogue number 04636 includes 1 connection only. Order 1 connection per phase.


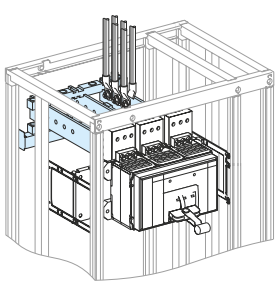
Connection between device and horizontal busbars must be made by the customer.


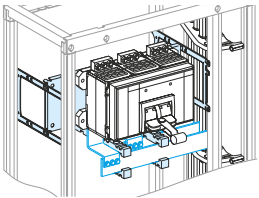
Selection of Linergy BS bars for the connection: see page B-13.

Selection of Linergy LGYE busbars: see page B-12.

Circuit breakers

Mounting		Front connection	
 <p>NS1600b NS2000/3200</p>		 <p>D0385439.eps</p>	
Devices		Fixed device	
		NS1600b	NS2000/3200
Number of devices per row		1	1
No. of vertical modules		14	16
Mounting plates		03501	03501
Front plates [No. of vertical modules]	upstream	03802 [2]	03802 [2]
	with cut-out	03716 [8]	03716 [8]
	downstream	03804 [4]	03806 [6]

Connection		Upstream on incomer	
		 <p>D0385440.eps</p>	
Devices		Fixed device	
		NS1600b/2500	NS3200
Type of terminals		Front connections supplied with the device	
Vertical-connection adapters	3P	33975	33975
	4P	33976	33976
Terminal extension bar support		04694	
Extension bars		must be made ⁽¹⁾	

Distribution		Downstream on Linergy LGY, LGYE or BS busbars	
		 <p>D0383548.eps</p>	
Devices		Fixed device	
		NS1600b	NS2000/2500 NS3200
Type of terminals		Front connections supplied with the device	
Busbars connection		must be made ⁽¹⁾⁽²⁾	
Free support for busbars connection		2 x 04662	
Cover for busbars connection		04926	04926
Additional cover		-	04927

⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

⁽²⁾ For the connection to flat busbars > 1600 A, order one joint per phase:

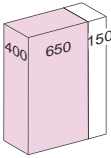
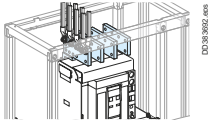
- 1 joint for busbars, W = 50/60 mm (04640)
- 1 joint for busbars, W = 80/100 mm (04641)

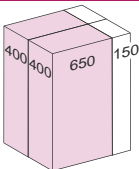
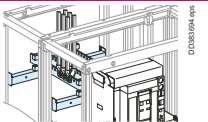
Note: to make measurements:


- install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (03801)
- or install a Micrologic control unit capable of displaying the values.


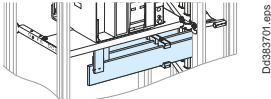
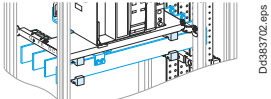
Selection of Linergy LGY: see page B-14, **Linergy LGYE:** see page B-15, **Linergy BS:** see page B-16.

Circuit breakers

Mounting		Front connection with cables			
					
Devices		Fixed device		Withdrawable device	
		NS630b/1000		NS1250/1600	
Number of devices per row		1		1	
No. of vertical modules		12		14	
Mounting plates		03482		03482	
Front plates		03802 [2]		03802 [2]	
[No. of vertical modules] upstream		03690 or 03701 ⁽¹⁾ [7]		03691 [8]	
[No. of vertical modules] with cut-out					
downstream		03803 [3]		03803 [3]	

Mounting		Rear connection with cables			
					
Devices		Fixed device		Withdrawable device	
		NS630b/1600		NS630b/1600	
Number of devices per row		1		1	
No. of vertical modules		10		11	
Mounting plates		03482		03483	
Front plates		03690 or 03701 ⁽¹⁾ [7]		03691 [8]	
[No. of vertical modules] with cut-out					
downstream		03803 [3]		03803 [3]	

Connection		Upstream on incomer							
									
Devices		Fixed device				Withdrawable device			
		NS630b/1000		NS1250/1600		NS630b/1000		NS1250/1600	
Front connection		3P 4P		3P 4P		3P 4P		3P 4P	
Type of terminals		Front connections supplied with the device							
Vertical connection adapters		33642 ⁽³⁾ 33643 ⁽³⁾		33642 ⁽³⁾ 33643 ⁽³⁾		33642 ⁽³⁾ 33643 ⁽³⁾		33642 ⁽³⁾ 33643 ⁽³⁾	
Cable-lug adapters		Direct		33644 ⁽³⁾ 33645 ⁽³⁾		Direct		33644 ⁽³⁾ 33645 ⁽³⁾	
Spacing rods		-		04691 ⁽³⁾		-		04691 ⁽³⁾	
Arc-chute cover		33596 33597		33596 33597		-		-	
Cables cover		04851				04852			
Rear connection									
Type of terminals		Vertical rear connections supplied with the device							
Terminal extension bar support		2 x 04693							
Cables cover		04853				04854			
Extension bars		must be made ⁽²⁾							

Distribution		Downstream on Linergy LGY or BS busbars							
									
Devices		Fixed device				Withdrawable device			
		NS630b/1250		NS1600		NS630b/1250		NS1600	
Type of terminals		3P 4P		3P 4P		3P 4P		3P 4P	
Busbars connection		Front connections supplied with the device							
		For Linergy LGY busbars: prefabricated connection							
		04485 04486		04487 04488		04477 04478		04491 04492	
		Can be reversed for upstream supply							
		For Linergy BS busbars: must be made ⁽²⁾ .							
Free support for busbars connection		For Linergy BS busbars: 2 x 04662							
Cover for busbars connection		04926							

(1) For devices with toggle or rotary handle catalogue number 03690, with a motor mechanism catalogue number 03701.

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

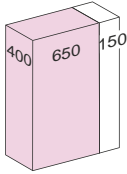
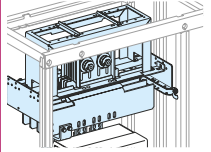
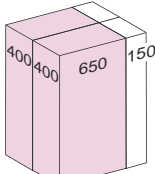
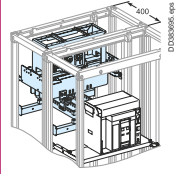



(3) Vertical connection adaptaters and cable-lug adapters and CT, are not compatible with input voltage $\geq 500V$ due to mandatory barriers installation (33648 or 33768).

Note: to make measurements: ■ install a Micrologic control unit capable of displaying the values.

■ or install the CTs on the horizontal busbars; in this case, an additional module is required; add a plain front plate downstream (03801).

Selection of Linergy LGY: see page B-14, Linergy LGYE: see page B-15, Linergy BS: see page B-16.

Circuit breakers

Mounting		Canalis front connection			
					
Devices		Fixed device		Withdrawable device	
		NS630b/1250	NS1600	NS630b/1250	NS1600
Number of devices per row		1	-	1	-
No. of vertical modules		17	-	18	-
Mounting plates		03482	-	03483	-
Front plates		upstream 03804 [4] + 03803 [3]	-	03804 [4] + 03803 [3]	-
[No. of vertical modules]		with cut-out 03690 or 03701 ⁽¹⁾ [7]	-	03691 [8]	-
		downstream 03803 [3]	-	03803 [3]	-
Mounting		Canalis rear connection			
					
Devices		Fixed device		Withdrawable device	
		NS630b/1600		NS630b/1600	
Number of devices per row		1		1	
No. of vertical modules		16		16	
Mounting plates		03482		03483	
Front plates		upstream 03806 [6]		03805 [5]	
[No. of vertical modules]		with cut-out 03690 or 03701 ⁽¹⁾ [7]		03691 [8]	
		downstream 03803 [3]		03803 [3]	
Connection		Upstream on incomer			
					
Devices		Fixed device		Withdrawable device	
		NS630b/1600		NS630b/1600	
		3P	4P	3P	4P
Canalis support		03561	-	-	-
Canalis interface ⁽²⁾		04703	04704	04703	04704
Front connection		Front connections supplied with the device			
Type of terminals		04711		04712	
Canalis/device		33596		-	
Arc-chute cover		04871 + 04851		04871 + 04852	
Canalis cover		-		-	
Rear connection		Vertical rear connections supplied with the device			
Type of terminals		2 x 04693			
Terminal extension bar support		must be made ⁽³⁾			
Extension bars		-		04713	
Canalis/device connection		-		04714	
Canalis cover		04871 + 04854		04871 + 04854	
Distribution		Downstream on Linergy LGY or BS busbars			
					
Devices		Fixed device		Withdrawable device	
		NS630b/1250		NS630b/1250	
		3P	4P	3P	4P
Type of terminals		Front connections supplied with the device			
Busbars connection		For Linergy LGY busbars: prefabricated connection		For Linergy BS busbars: must be made ⁽³⁾	
		04485	04486	04477	04478
		04487	04488	04491	04492
		Can be reversed for upstream supply			
Free support for busbars connection		For Linergy BS busbars: 2 x 04662			
Cover for busbars connection		04926			

(1) For devices with toggle or rotary handle catalogue number 03690, with a motor mechanism catalogue number 03701.

(2) To tight the screws of the Canalis interface use the special tool 87808.

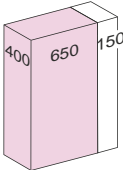
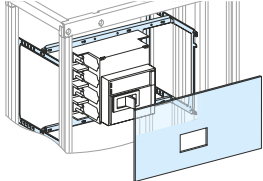
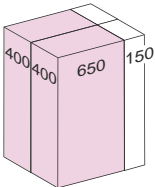
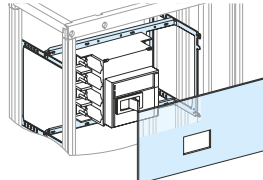

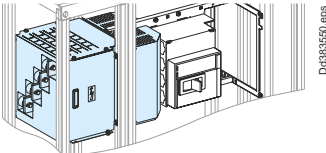

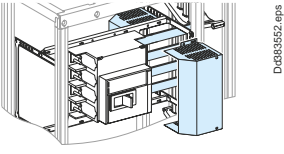
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Note: to make measurements: ■ install a Micrologic control unit capable of displaying the values.

■ or install the CTs on the horizontal busbars; in this case, an additional module is required; add a plain front plate downstream (03801).

Selection of Linergy LGY: see page B-14, Linergy LGYE: see page B-15, Linergy BS: see page B-16.

Circuit breakers

Mounting		Front connection	
			
Devices		Fixed device NS630b/1000	
Number of devices per row	1		
No. of vertical modules	7 ⁽¹⁾		
Mounting plates	03480		
Front plates with cut-outs <small>[No. of vertical modules]</small>	03687 [7]		
Mounting		Rear connection	
			
Devices		Fixed device NS630b/1000	
Number of devices per row	1		
No. of vertical modules	7 ⁽¹⁾		
Mounting plates	03480		
Front plates with cut-outs <small>[No. of vertical modules]</small>	03687 [7]		
Connection		Upstream on incomer	
			
Devices		Fixed device NS630b/1000	
Type of terminals	front connection	3P 4P	
	rear connection	Front connections supplied with the device Vertical rear connections supplied with the device	
Connection transfer assembly for front connection	04483	04484 Three 300 mm ² or six 185 mm ² cables can be connected per phase with lugs that are not of the two-metal type.	
Cover rear connection	04844		
Distribution		Downstream on Linergy LGY, LGYE or BS busbars	
			
Devices		Fixed device NS630b/1000	
Type of terminals		3P 4P	
Busbars connection		Front connections supplied with the device For Linergy LGY busbars: prefabricated connection 04473 04474 must be made. For Linergy LGYE (see page B-19) and Linergy BS busbars	
Cover for busbars connection	04842		
Arc-chute cover	33596	33597	

⁽¹⁾ Mounting of 03480 + connection transfer assembly 04483 or 04484 needs 8 vertical modules (use of one complementary front plate 1 module 03801) at the bottom of the functional unit.

Selection of Linergy LGY: see page B-14, **Linergy LGYE:** see page B-15, **Linergy BS:** see page B-16.

Functional system

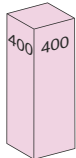
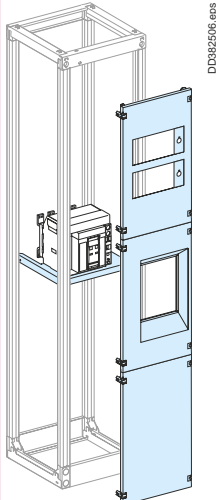
Functional units

W = 400 mm

Circuit breakers

Compact NS630b/1600

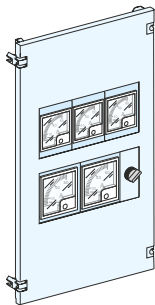




Dedicated cubicle

Mounting		Toggle, rotary handle and motor mechanism	
			
Devices	Fixed device	Withdrawable device	
	NS630b/1600 3/4P	NS630b/1600 3P	
Number of devices per cubicle	1	1	
No. of vertical modules	36	36	
Mounting plates	03487	03488	
Front plates [No. of vertical modules]	with cut-out	03697 [11]	
	upstream ⁽¹⁾ with cut-out for 72 x 72 or 96 x 96 mm meters	03723 [13]	
	or plain	03722 [12]	
	downstream ⁽¹⁾ plain	03722 [12]	

Measurement-device installation

Measurement devices are installed on a front plate (03723) using plastic mounting plates with cut-outs. The front plate can hold:

- six 72 x 72 mm cases
- or four 96 x 96 mm cases + 2 switches.

Number and type of devices per row	Metal front plate with cut-out	No. of vertical modules	Plastic mounting plates with cut-out	Blanking plate or device support
Mounting on an interface with plastic mounting plates				
3 x 72 x 72 Vigirex and other devices 72 x 72 without switch		13	 03902	 03900 To blank-off or install: - from 1 to 4 buttons ø 16 or 22 mm - 1 device 45 x 45
2 x 96 x 96 Power Meter and other devices 96 x 96 with switch			 03903	 03901 To blank-off or install: - from 1 to 4 buttons ø 16 or 22 mm - 1 device 45 x 45 - 1 device 72 x 72
Characteristics			■ Installation of three devices (72 x 72 mm cases) using plastic mounting plates (03902) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (03903) on a hinged front plate (03723) ■ The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices. Knock-outs for 03900: 4 ø 16 mm, 5 ø 22 mm or one for a 45 x 45 mm device. Knock-outs for 03901: 4 ø 16 mm, 5 ø 22 mm or one for a 45 x 45 or 72 x 72 mm device.	

(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.

Functional system


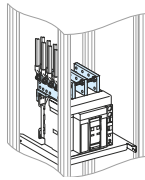



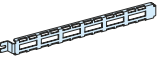
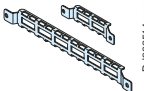
Functional units

W = 400 mm

Circuit breakers

Compact NS630b/1600

Dedicated cubicle

Connection		Upstream on incomer	
		Dc0382672.eps	
Devices	Fixed device	Withdrawable device	
	NS630b/1600		
Type of terminals	3P Front connection	4P	3P Front connection
			
Arc-chute cover	33596	33597	-
			
Vert. conn. adapters	33642 ⁽¹⁾	33643 ⁽¹⁾	33642 ⁽¹⁾
Cable-lug adapters	33644 ⁽¹⁾	33645 ⁽¹⁾	33644 ⁽¹⁾
Spacing rods	04691		04691
			
Accessories			
			
	W = 400	D = 400	D = 600
4 cable tie supports for framework	08774	08794	08794 + 08796

⁽¹⁾ Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V.

Functional system


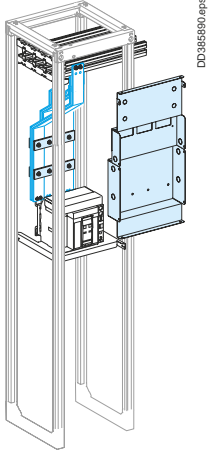
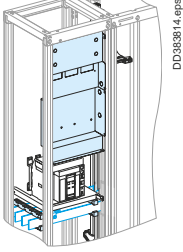
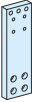
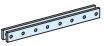

Functional units

W = 400 mm

Circuit breakers

Compact NS630b/1600

Dedicated cubicle

Distribution	Connection to horizontal busbars Linergy LGYE		Connection to horizontal busbars Linergy BS		Connection to vertical busbars Linergy LGY or BS	
						
Devices	Fixed device	Withdrawable device	Fixed device	Withdrawable device	Fixed device	Withdrawable device
	NS630b/1600 3P/4P	NS630b/1600 3P	NS630b/1600 3P/4P	NS630b/1600 3P	NS630b/1600 3P/4P	NS630b/1600 3P
Type of terminals	Front connection	Front connection	Front connection	Front connection	Front connection	Front connection
						
Support	2 x 04692	2 x 04692	2 x 04692	2 x 04692	-	-
						
Barrier ⁽¹⁾	04855	04855	04855	04855	04855	04855
						
Horizontal-busbar connections	must be made ⁽²⁾		-	-	-	-
50/60/80	-	-	04636 ⁽³⁾	04636	-	-
Vertical-busbar connections	-	-	-	-	must be made ⁽²⁾	
Free support	-	-	-	-	04662	

⁽¹⁾ A barrier must be installed behind front plate 03723 when measurement devices are installed.

⁽²⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

⁽³⁾ Catalogue number 04636 includes 1 connection only. Order 1 connection per phase.

Connection between device and horizontal busbars must be made by the customer.

Selection of Linergy BS bars for the connection: see pages B-13 - B-16.

Selection of Linergy LGYE or LGY: see page B-12 or B-14.



Presentation

A range of intelligent circuit breakers Compact NSX improves management of electrical installations

In addition to protection functions, the new generation of Compact NSX moulded case circuit breakers provides new features (analysis, measurements and communication) with access to information:

- > either directly on the LCD screen of the trip unit to set the circuit breaker or read the main electrical values, including U, I, f, P(W) and E (kWh)
- > or on the FDM1 21 or FDM1 28 display on the front of the Prisma P switchboard (duct door with special front plate) for quick access to a greater wealth of information.

A cable connects the display to the trip unit without any special settings or configuration, making it easy to personalise alarms and displays or read event logs and maintenance indicators.

Integration of Compact NSX in Prisma P

Installation of Compact NSX devices in a Prisma P functional switchboard is very easy and made of a functional unit system:

- dedicated mounting plates for Compact NSX offer
- same power connections (Linergy FC distribution block and prefabricated connections)
- identical control connections
- identical partitioning (form 2b to 4b)
- same modularity (taking into account the safety clearances).



PB105112_eps



PB108167_eps

FDM1 21



PB11801132_eps

FDM1 28



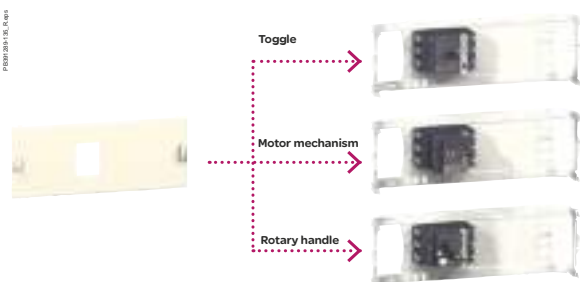
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Installation

A new front plate

The front of Compact NSX circuit breakers has an eye-pleasing curved profile, making Prisma P switchboards even more attractive. Prisma front plates are designed to take into account all types of controls (toggle, motor mechanism, rotary handle).



PB103413_eps

Installation architectures for the measurement function

Compact NSX circuit breakers equipped with Micrologic 5/6 A or E trip units provide measurements that can be read on the FDM 1 21 display module or directly on the circuit breaker. This makes it possible to optimise the space required by the functional unit. What is more, installation and connections are made easier because the FDM 1 21 or the FDM 1 28 is installed:

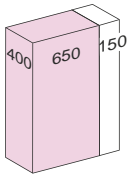
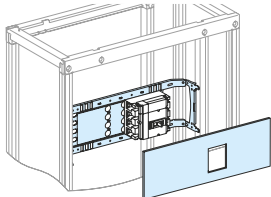

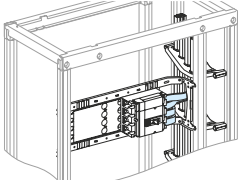

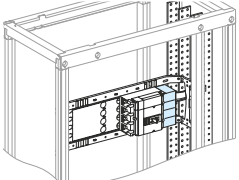

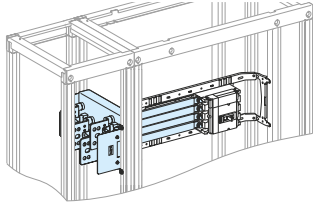
- > on direct cut-out in a plain door
- > on a front for one or four 96 x 96 devices in the functional unit or the 300 mm wide duct door.



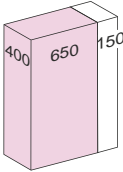
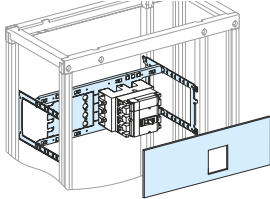

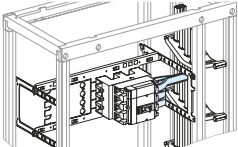

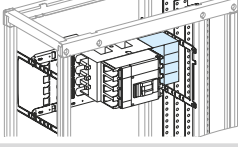

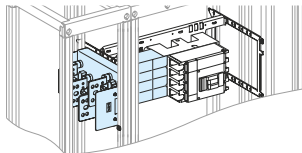
PB115604_52_eps



For more information on the communication functions of Compact NSX, see the ULP system user manual, ref. TRV99100, and the Compact NSX catalogue, ref. LVPED208001_EN.

Mounting		Horizontal fixed							
									
Devices		Toggle				NSX400/630, Vigi NSX400/630			
		NSX100/250, Vigi NSX100/250 ⁽¹⁾		4P		3P		4P	
Number of devices per row		1		1		1		1	
No. of vertical modules		3		4		4		5	
Mounting plates		03411		03412		03451		03452	
Front plates with cut-out <small>[No. of vertical modules]</small>		03604 ⁽²⁾ [3]		03606 ⁽²⁾ [4]		03643 [4]		03644 [5]	
Connection		Distribution via lateral busbars							
		Linerigy LGY							
									
Devices		Toggle				NSX400/630, Vigi NSX400/630			
		NSX100/250, Vigi NSX100/250		4P		3P		4P	
Prefabricated connection		04423 ⁽⁴⁾		04424 ⁽⁴⁾		04453		04454	
		Linerigy BS, LGYE							
									
Devices		Toggle				NSX400/630, Vigi NSX400/630			
		NSX100/250, Vigi NSX100/250		4P		3P		4P	
Connection		must be made ⁽³⁾							
Long terminal shields		LV429517		LV429518		LV432593		LV432594	
Distribution		Downstream in cubicle							
									
Devices		Toggle		Vigi NSX100/250		NSX400/630		Vigi NSX400/630	
		NSX100/250		3P		3P		3P	
Front connection		long terminal shields		LV429517		LV429518		LV432593	
Connection		connection		04425		04426		04429 ⁽⁵⁾	
transfer assembly		long terminal shields		-		-		04455	
Rear connection		short terminal shields		LV429515 ⁽⁴⁾		LV429516 ⁽⁴⁾		LV432591 ⁽⁴⁾	
		short rear connectors		LV429235		LV429235		LV432475	
		long rear connectors		LV429236		LV429236		LV432476	

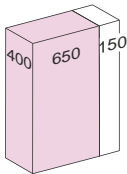
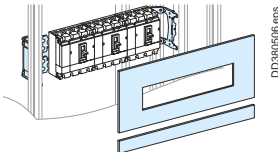
⁽¹⁾ Ammeter can be added.
⁽²⁾ Compatible with FDM121.
⁽³⁾ Connections must be made with insulated flexible bars, see page B-32.
⁽⁴⁾ Compatible with Linerigy LGYE vertical busbar.
⁽⁵⁾ No connection.


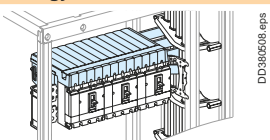

Mounting		Horizontal plug-in			
					
Devices		Toggle		NSX400/630, Vigi NSX400/630	
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630	
		3P	4P	3P	4P
Number of devices per row		1	1	1	1
No. of vertical modules		3	4	3	4
Mounting plates		03413	03414	03453	03454
Front plates	with cut-out	03604 ⁽¹⁾ [3]	03606 ⁽¹⁾ [4]	03643 [3]	03644 [4]
[No. of vertical modules]					
Connection		Distribution via lateral busbars			
		Linergy LGY			
					
Devices		Toggle		NSX400/630, Vigi NSX400/630	
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630	
		3P	4P	3P	4P
Prefabricated connection		04431 ⁽²⁾	04432 ⁽²⁾	04461	04462
Short terminal shields on device		LV429515	LV429516	LV432591	LV432592
		Linergy BS, LGYE			
					
Devices		Toggle		NSX400/630, Vigi NSX400/630	
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630	
		3P	4P	3P	4P
Connection		must be made with insulated flexible bars, see page B-32.			
Connection adapter for plug-in base		LV429306	LV429307	LV432584	LV432585
Long terminal shields on plug-in base		LV429517	LV429518	LV432593	LV432594
Short terminal shields on device		LV429515	LV429516	LV432591	LV432592
Distribution		Downstream in cubicle			
					
Devices		Toggle		NSX400/630, Vigi NSX400/630	
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630	
		3P	4P	3P	4P
Front connection	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
	short terminal shields on device	LV429515	LV429516	LV432591	LV432592
	long terminal shields on plug-in base	LV429517	LV429518	LV432593	LV432594
Connection transfer assembly	connection	04429 ⁽³⁾	04430 ⁽³⁾	04459 ⁽³⁾	04460 ⁽³⁾
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
	short terminal shields	LV429515	LV429516	LV432591	LV432592
	long terminal shields	LV429517	LV429518	LV432593	LV432594
Rear connection	short terminal shields	2 x LV429515	2 x LV429516	2 x LV432591	2 x LV432592
	short rear connectors	LV429235	LV429235	LV432475	LV432475
	long rear connectors	LV429236	LV429236	LV432476	LV432476
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585


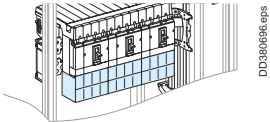
(1) Compatible with FDM121.

(2) Compatible with Linergy LGYE vertical busbar.

(3) No connection.

Mounting		Vertical fixed			
					
Devices		Toggle			
		NSX100/160	Vigi NSX100/160	NSX250	Vigi NSX250
Number of devices per row		3/4	3/4	3/4	3/4
No. of vertical modules		6	8	7	9
Mounting plates		03420	03420	03420	03420
Front plates	with cut-out	03243 [5]	03241 [7]	03243 [5]	03241 [7]
[No. of vertical modules]	downstream	03801 [1]	03801 [1]	03802 [2]	03802 [2]

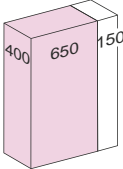
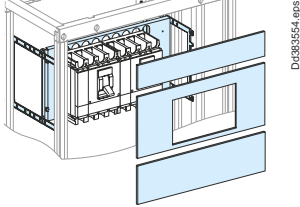
Connection		Distribution via lateral busbars			
		Linergy LGY			
					
Devices		Toggle		NSX250, Vigi NSX250	
		NSX100/160, Vigi NSX100/160		3P	4P
Number of devices per row		4	3	4	3
Linergy FC distribution blocks (with connection)		04403	04404	04403	04404
		Linergy BS, LGYE			
Devices		Toggle		NSX250, Vigi NSX250	
		NSX100/160, Vigi NSX100/160		3P	4P
Number of devices per row		4	3	4	3
Linergy FC distribution blocks (without connection) ⁽³⁾		04407	04408	04407	04408
Devices		Toggle		NSX250, Vigi NSX250	
		NSX100/160, Vigi NSX100/160		3P	4P
Number of devices per row		4	3	4	3
Front connection	long terminal shields	LV429517	LV429518	LV429517	LV429518
Rear connection with cable	short terminal shields	LV429515	LV429516	LV429515	LV429516
	short rear connectors	LV429235		LV429235	
	long rear connectors	LV429236		LV429236	
		Accessories			
Linergy FC tooth-caps		04809			
Divisible blanking plate		03249			
Divisible blanking plate + electronic trip unit		03222			


Distribution		Downstream in cubicle			
					
Devices		Toggle		NSX250, Vigi NSX250	
		NSX100/160, Vigi NSX100/160		3P	4P
Front connection	long terminal shields	LV429517	LV429518	LV429517	LV429518
Rear connection ⁽²⁾	short terminal shields	LV429515	LV429516	LV429515	LV429516
	short rear connectors	LV429235		LV429235	
	long rear connectors	LV429236		LV429236	


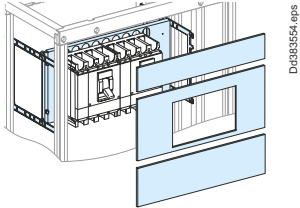
(1) For the Compact NSX100/250, the number of modules indicated is for supply via a Linergy FC distribution block. For supply via cables, two additional modules are required; add an upstream plain front plate (03802).

(2) Size reduced one module downstream.

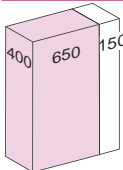
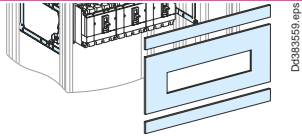

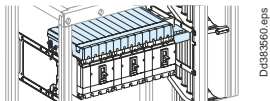

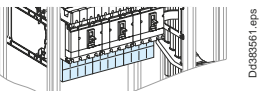
(3) Flexible bars on Linergy LGYE to be made according drawings supplied by Schneider Electric.

Mounting		Vertical fixed							
									
Devices		Toggle NSX400		Vigi NSX400		NSX630		Vigi NSX630	
Number of devices per row		1	2	1	2	1	2	1	2
No. of vertical modules		11		13		13		15	
Mounting plates		03461		03461		03461		03461	
Front plates [No. of vertical modules]	upstream	03801 [1]	03802 [2]	-	03802 [2]	03802 [2]	03803 [3]	03801 [1]	03803 [3]
	with cut-out	03275 [9]	03663 [7]	03297 [11]	03666 [9]	03275 [9]	03663 [7]	03297 [11]	03666 [9]
	downstream	03801 [1]	03802 [2]	03802 [2]	03802 [2]	03802 [2]	03803 [3]	03803 [3]	03803 [3]

Connection		Distribution via lateral busbars			
		Linergy LGY, Linergy BS, LGYE			
Devices		Toggle NSX400, Vigi NSX400		NSX630, Vigi NSX630	
		3P	4P	3P	4P
Number of devices per row		1/2		1/2	
Front connection		must be made with insulated flexible bars, see page B-32. ⁽¹⁾			
long terminal shields		LV432593	LV432594	LV432593	LV432594
Rear connection		short terminal shields		short terminal shields	
		LV432591	LV432592	LV432591	LV432592
		short rear connectors		short rear connectors	
		LV432475		LV432475	
		long rear connectors		long rear connectors	
		LV432476		LV432476	

Distribution		Downstream in cubicle			
					
Devices		Toggle NSX400, Vigi NSX630		NSX400, Vigi NSX630	
		3P	4P	3P	4P
Front connection		long terminal shields		long terminal shields	
		LV432593	LV432594	LV432593	LV432594
Rear connection ⁽²⁾		short terminal shields		short terminal shields	
		LV432591	LV432592	LV432591	LV432592
		short rear connectors		short rear connectors	
		LV432475		LV432475	
		long rear connectors		long rear connectors	
		LV432476		LV432476	

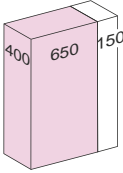
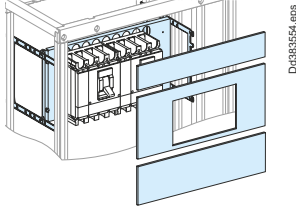
⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.
⁽²⁾ Size reduced one module downstream.


Mounting		Vertical plug-in							
									
Devices		Toggle							
		NSX100/160		Vigi NSX100/160		NSX250		Vigi NSX250	
Number of devices per row		3/4		3/4		3/4		3/4	
No. of vertical modules		9		11		10		12	
Mounting plates		03421 ⁽¹⁾ 03423 ⁽²⁾		03421 ⁽¹⁾ 03423 ⁽²⁾		03421 ⁽¹⁾ 03423 ⁽²⁾		03421 ⁽¹⁾ 03423 ⁽²⁾	
Front plates [No. of vertical modules]		upstream		03801 [1] 03801 [1] + 03802 [2]		03801 [1] 03801 [1] + 03802 [2]		03801 [1] 03801 [1] + 03802 [2]	
		with cut-out		03243 [5] 03243 [5]		03241 [7] 03241 [7]		03243 [5] 03243 [5]	
		downstream		03801 [1] 03801 [1]		03801 [1] 03801 [1]		03802 [2] 03802 [2]	
Connection		Distribution via lateral busbars							
		Linerigy LGY							
									
Devices		Toggle				NSX250, Vigi NSX250			
		NSX100/160, Vigi NSX100/160		3P		4P		3P	
Number of devices per row		4		3		4		3	
Linerigy FC distribution blocks (with connection)		04405 ⁽³⁾		04406 ⁽³⁾		04405 ⁽³⁾		04406 ⁽³⁾	
Connection adapter for plug-in base		LV429306		LV429307		LV429306		LV429307	
		Linerigy BS, LGYE							
Devices		Toggle				NSX250, Vigi NSX250			
		NSX100/160, Vigi NSX100/160		3P		4P		3P	
Number of devices per row		4		3		4		3	
Linerigy FC distribution blocks (without connection) ⁽⁵⁾		04407		04408		04407		04408	
Connection adapter for plug-in base		LV429306		LV429307		LV429306		LV429307	
Devices		Toggle				NSX250, Vigi NSX250			
		NSX100/160, Vigi NSX100/160		3P		4P		3P	
Number of devices per row		4		3		4		3	
Front connection		must be made with insulated flexible bars, see page B-32.							
		long terminal shields		LV429517		LV429518		LV429517	
		short terminal shields		LV429515		LV429516		LV429515	
		connection adapter for plug-in base		LV429306		LV429307		LV429306	
Rear connection		short terminal shields		2 x LV429515		2 x LV429516		2 x LV429515	
		short rear connectors		LV429235		LV429235		LV429235	
		long rear connectors		LV429236		LV429236		LV429236	
		connection adapter for plug-in base		LV429306		LV429307		LV429306	
		Accessories							
Linerigy FC tooth-caps		04809							
Divisible blanking plate		03249							
Divisible blanking plate + electronic trip unit		03222							
Distribution		Downstream in cubicle							
									
Devices		Toggle				NSX250, Vigi NSX250			
		NSX100/160, Vigi NSX100/160		3P		4P		3P	
Front connection		connection adapter for plug-in base		LV429306		LV429307		LV429306	
		short terminal shields on device		LV429515		LV429516		LV429515	
		long terminal shields on plug-in base		LV429517		LV429518		LV429517	
Rear connection ⁽⁴⁾		short terminal shields		2 x LV429515		2 x LV429516		2 x LV429515	
		short rear connectors		LV429235		LV429235		LV429235	
		long rear connectors		LV429236		LV429236		LV429236	
		connection adapter for plug-in base		LV429306		LV429307		LV429306	


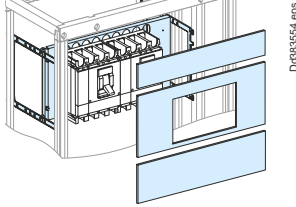
(1) Not compatible with Linerigy FC distribution block.

(2) Compatible with Linerigy FC distribution block. (3) Catalogue number 04924 is recommended when installing those references.

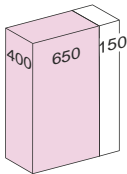
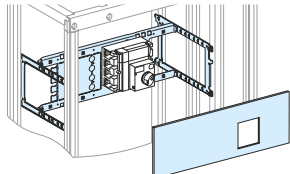

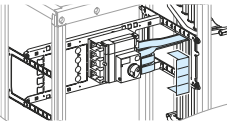

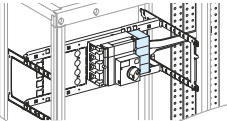

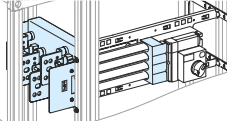
(4) Size reduced one module downstream. (5) Flexible bars on Linerigy LGYE to be made according drawings supplied by Schneider Electric.

Mounting		Vertical plug-in							
									
Devices		Toggle NSX400		Vigi NSX400		NSX630		Vigi NSX630	
Number of devices per row		1	2	1	2	1	2	1	2
No. of vertical modules		11		13		13		15	
Mounting plates		03461		03461		03461		03461	
Front plates [No. of vertical modules]		upstream		-		03802 [2]		03803 [3]	
		with cut-out		03297 [11]		03666 [9]		03297 [11]	
		downstream		03802 [2]		03802 [2]		03803 [3]	

Connection		Distribution via lateral busbars			
		Linergy LGY, Linergy BS, LGYE			
Devices		Toggle NSX400, Vigi NSX400		NSX630, Vigi NSX630	
		3P		4P	
Number of devices per row		1/2		1/2	
Front connection		must be made with insulated flexible bars, see page B-32. ⁽¹⁾			
long terminal shields		LV432593	LV432594	LV432593	LV432594
short terminal shields		LV432591	LV432592	LV432591	LV432592
connection adapter for plug-in base		LV432584	LV432585	LV432584	LV432585
Rear connection		short terminal shields		2 x LV432591	
		short rear connectors		LV432475	
		long rear connectors		LV432476	
		connection adapter for plug-in base		LV432584	LV432585

Distribution		Downstream in cubicle			
					
Devices		Toggle NSX400, Vigi NSX400		NSX630, Vigi NSX630	
		3P		4P	
Front connection		connection adapter for plug-in base		LV432584	LV432585
		short terminal shields on device		LV432591	LV432592
		long terminal shields on plug-in base		LV432593	LV432594
Rear connection ⁽²⁾		short terminal shields		2 x LV432591	
		short rear connectors		LV432475	
		long rear connectors		LV432476	
		connection adapter for plug-in base		LV432584	LV432585

⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric
⁽²⁾ Size reduced one module downstream.

Mounting		Horizontal, fixed on plug-in base							
									
Devices		Rotary handle, motor mechanism							
		NSX100/250		Vigi NSX100/250 rotary handle, motor mechanism		NSX400/630		Vigi NSX400/630 rotary handle, NSX400/630 motor mechanism	
		3P	4P	3P	4P	3P	4P	3P	4P
Number of devices per row		1	1	1	1	1	1	1	1
No. of vertical modules		3	4	3	4	4	5	4	5
Mounting plates		03413	03414	03413	03414	03453 ⁽¹⁾	03454 ⁽¹⁾	03453 ⁽¹⁾	03454 ⁽¹⁾
Front plates with cut-out [No. of vertical modules]		03604 ^{(2) [3]}	03606 ^{(2) [4]}	03604 ^{(2) [3]}	03606 ^{(2) [4]}	03643 [4]	03644 [5]	03643 [4]	03644 [5]
Collar		-	-	LV429285	LV429285	-	-	LV429285	LV429285
Connection		Distribution via lateral busbars							
									
Devices		Fixed device				NSX400/630, Vigi NSX400/630			
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630		NSX400/630, Vigi NSX400/630		NSX400/630, Vigi NSX400/630	
		3P		4P		3P		4P	
Connection		04427 ⁽³⁾		04428 ⁽³⁾		must be made with insulated flexible bars, see page B-32 ⁽⁴⁾ .			
Long terminal shields		-		-		LV432593		LV432594	
									
Devices		Fixed device				NSX400/630, Vigi NSX400/630			
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630		NSX400/630, Vigi NSX400/630		NSX400/630, Vigi NSX400/630	
		3P		4P		3P		4P	
Connection		must be made with insulated flexible bars, see page B-32.							
Long terminal shields		LV429517		LV429518		LV432593		LV432594	
Distribution		Downstream in cubicle							
									
Devices		Fixed device				NSX400/630, Vigi NSX400/630			
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630		NSX400/630, Vigi NSX400/630		NSX400/630, Vigi NSX400/630	
		3P		4P		3P		4P	
Front connection	long terminal shields	LV429517		LV429518		LV432593		LV432594	
Connection transfer assembly	connection	04429 ⁽⁵⁾		04430 ⁽⁵⁾		04459 ⁽⁵⁾		04460 ⁽⁵⁾	
	long terminal shields	LV429517		LV429518		LV432593		LV432594	
Rear connection	short terminal shields	LV429515		LV429516		LV432591		LV432592	
	short rear connectors	LV429235				LV432475			
	long rear connectors	LV429236				LV432476			

(1) Catalogue number 03460 is recommended when installing an NSX with a motor mechanism.

(2) Compatible with FDM121.

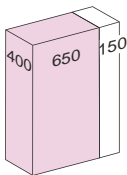
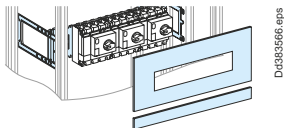
(3) Compatible with Linergy LGYE vertical busbar.


(4) To be made according to the busbar drawings supplied by Schneider Electric.


(5) No connection.

Mounting		Horizontal plug-in							
Devices		Rotary handle, motor mechanism							
		NSX100/250		Vigi NSX100/250 rotary handle, motor mechanism		NSX400/630		Vigi NSX400/630 rotary handle, NSX400/630 motor mechanism	
		3P	4P	3P	4P	3P	4P	3P	4P
Number of devices per row		1	1	1	1	1	1	1	1
No. of vertical modules		3	4	3	4	4	5	4	5
Mounting plates		03413	03414	03413	03414	03453 ⁽¹⁾	03454 ⁽¹⁾	03453 ⁽¹⁾	03454 ⁽¹⁾
Front plates with cut-out [No. of vertical modules]		03604 ^{(2) [3]}	03606 ^{(2) [4]}	03604 ^{(2) [3]}	03606 ^{(2) [4]}	03643 ^[4]	03644 ^[5]	03643 ^[4]	03644 ^[5]
Collar		-	-	LV429285	LV429285	-	-	LV429285	LV429285
Connection		Distribution via lateral busbars							
		Linergy LGY							
Devices		Plug-in device				NSX400/630, Vigi NSX400/630			
		NSX100/250, Vigi NSX100/250		4P		3P		4P	
Connection		04427 ⁽³⁾		04428 ⁽³⁾		must be made with insulated flexible bars, see page B-32 ⁽⁴⁾ .			
Short terminal shields		LV429515		LV429516		LV432591		LV432592	
Long terminal shields		-		-		LV432593		LV432594	
Connection adapter for plug-in base		LV429306		LV429307		LV432584		LV432585	
		Linergy BS, LGYE							
Devices		Plug-in device				NSX400/630, Vigi NSX400/630			
		NSX100/250, Vigi NSX100/250		4P		3P		4P	
Connection		must be made with insulated flexible bars, see page B-32.							
Short terminal shields		LV429515		LV429516		LV432591		LV432592	
Long terminal shields		LV429517		LV429518		LV432593		LV432594	
Connection adapter for plug-in base		LV429306		LV429307		LV432584		LV432585	
Distribution		Downstream in cubicle							
Devices		Plug-in device				NSX400/630, Vigi NSX400/630			
		NSX100/250, Vigi NSX100/250		4P		3P		4P	
Front connection	long terminal shields	LV429517		LV429518		LV432593		LV432594	
	short terminal shields	LV429515		LV429516		LV432591		LV432592	
	connection adapter for plug-in base	LV429306		LV429307		LV432584		LV432585	
Connection transfer assembly	connection	04429 ⁽⁵⁾		04430 ⁽⁵⁾		04459 ⁽⁵⁾		04460 ⁽⁵⁾	
	long terminal shields	LV429517		LV429518		LV432593		LV432594	
Rear connection	short terminal shields	LV429515		LV429516		LV432591		LV432592	
	short rear connectors	2 x LV429515		2 x LV429516		2 x LV432591		2 x LV432592	
	long rear connectors	LV429235		-		LV432475		-	
	connection adapter for plug-in base	LV429236		-		LV432476		-	
		LV429306		LV429307		LV432584		LV432585	

(1) Catalogue number 03460 is recommended when installing an NSX with a motor mechanism.
 (2) Compatible with FDM121.
 (3) Compatible with Linergy LGYE vertical busbar.
 (4) To be made according to the busbar drawings supplied by Schneider Electric.
 (5) No connection.

Mounting		Vertical fixed			
					
Devices		Rotary handle, motor mechanism			
		NSX100/160	Vigi NSX100/160	NSX250	Vigi NSX250
Number of devices per row		3/4	3/4	3/4	3/4
No. of vertical modules ⁽¹⁾		6	8	7	9
Mounting plates		03422	03422	03422	03422
Front plates	with cut-out	03243 [5]	03244 [7]	03243 [5]	03244 [7]
	downstream	03801 [1]	03801 [1]	03802 [2]	03802 [2]
Collar		-	LV429285	-	LV429285
IP40 front-panel escutcheons		-	LV429316 ⁽²⁾	-	LV429316 ⁽²⁾

Connection		Distribution via lateral busbars	
		Linergy LGY	
Devices		Fixed device	
		NSX100/250, Vigi NSX100/250	
Number of devices per row		4 x 3P	3 x 4P
Linergy FC distribution blocks (with connection)		04405 ⁽³⁾	04406 ⁽³⁾
Devices		Fixed device	
		NSX100/250, Vigi NSX100/250	
Number of devices per row		4 x 3P	3 x 4P
Linergy FC distribution blocks (without connection) ⁽⁴⁾		04407	04408
		Accessories	
Linergy FC tooth-caps		04809	
Divisible blanking plate		03249	
Blanking plate fract. + electronic trip unit		03222	

Distribution		Downstream in cubicle	
			
Devices		Fixed device	
		NSX100/250, Vigi NSX100/250	
		3P	4P
Front connection	long terminal shields	LV429517	LV429518
Rear connection ⁽⁵⁾	short terminal shields	LV429515	LV429516
	short rear connectors	LV429235	
	long rear connectors	LV429236	

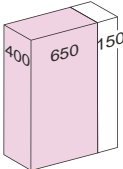
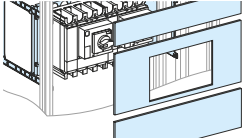
⁽¹⁾ For the Compact NSX100/250, the number of modules indicated is for supply via a Linergy FC distribution block. For supply via cables, two additional modules are required; add an upstream plain front plate (03802).


⁽²⁾ For ammeter, take LV429285 + LV429318 catalogue numbers.


⁽³⁾ Catalogue number 04924 is recommended when installing those references.

⁽⁴⁾ Flexible bars on Linergy LGYE to be made according drawings supplied by Schneider Electric.

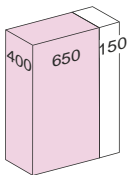
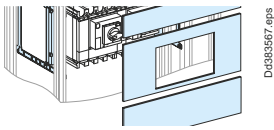
⁽⁵⁾ Size reduced one module downstream.


Mounting		Vertical fixed							
									
Devices		Rotary handle, motor mechanism							
		NSX400		Vigi NSX400 Rotary handle		NSX630		Vigi NSX630 Rotary handle	
Number of devices per row		1	2	1	2	1	2	1	2
No. of vertical modules		11		13		13		15	
Mounting plates		03461 ⁽¹⁾		03461		03461 ⁽¹⁾		03461	
Front plates		upstream		-		03802 [2]		03802 [2] 03803 [3]	
[No. of vertical modules]		with cut-out		03275 [9] 03663 [7]		03297 [11] 03666 [9]		03275 [9] 03663 [7] 03297 [11] 03666 [9]	
		downstream		03801 [1] 03802 [2]		03802 [2] 03802 [2]		03802 [2] 03803 [3] 03803 [3] 03803 [3]	
Collar		-		LV429285		-		LV429285	
IP40 escutcheons		-		LV429316 ⁽²⁾		-		LV429316 ⁽²⁾	


Connection		Distribution via lateral busbars	
		Linergy LGY, Linergy BS, LGYE	
Devices		Fixed device	
		NSX400/630, Vigi NSX400/630	
Number of devices per row		3P	4P
Front connection		must be made with insulated flexible bars, see page B-32. ⁽³⁾	
long terminal shields		LV432593	LV432594
Rear connection		short terminal shields	
short rear connectors		LV432591 ⁽⁴⁾	LV432592 ⁽⁴⁾
long rear connectors		LV432475	LV432476

Distribution		Downstream in cubicle	
			
Devices		Fixed device	
		NSX400/630, Vigi NSX400/630	
Number of devices per row		3P	4P
Front connection		long terminal shields	
long terminal shields		LV432593	LV432594
Rear connection ⁽⁴⁾		short terminal shields	
short rear connectors		LV432591	LV432592
long rear connectors		LV432475	LV432476

⁽¹⁾ Catalogue number 03460 is recommended when installing an NSX with a motor mechanism.
⁽²⁾ For ammeter, take LV429285 + LV429318 catalogue numbers.
⁽³⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.
⁽⁴⁾ Size reduced one module downstream.

Mounting		Vertical plug-in			
					
Devices		Rotary handle, motor mechanism			
		NSX100/160	Vigi NSX100/160	NSX250	Vigi NSX250
Number of devices per row		3/4	3/4	3/4	3/4
No. of vertical modules ⁽¹⁾		7	9	8	10
Mounting plates		03421	03421	03421	03421
Front plates upstream		03801 [1]	03801 [1]	03801 [1]	03801 [1]
[No. of vertical modules] with cut-out		03243 [5]	03244 [7]	03243 [5]	03244 [7]
downstream		03801 [1]	03801 [1]	03802 [2]	03802 [2]
Collar		-	LV429285	-	LV429285
IP40 escutcheons		-	LV429316 ⁽²⁾	-	LV429316 ⁽²⁾

Connection		Distribution via lateral busbars	
		Linerigy LGY	
Devices		Withdrawable device	
		NSX100/250, Vigi NSX100/250	
Number of devices per row		4 x 3P	3 x 4P
Linerigy FC distribution blocks (with connection).		04405 ⁽³⁾	04406 ⁽³⁾
Connection adapter for plug-in base		LV429306	LV429307
		Linerigy BS, LGYE	
Devices		Withdrawable device	
		NSX100/250, Vigi NSX100/250	
Number of devices per row		4 x 3P	3 x 4P
Linerigy FC distribution blocks (without connection) ⁽⁴⁾		04407	04408
Connection adapter for plug-in base		LV429306	LV429307
		Accessories	
Linerigy FC tooth-caps		04809	
Divisible blanking plate		03249	
Blanking plate fract. + electronic trip unit		03222	

Distribution		Downstream in cubicle	
			
Devices		Withdrawable device	
		NSX100/250, Vigi NSX100/250	
		3P	4P
Front connection	long terminal shields	LV429517	LV429518
	short terminal shields	LV429515	LV429516
	connection adapter for plug-in base	LV429306	LV429307
Rear connection ⁽⁵⁾	short terminal shields	2 x LV429515	2 x LV429516
	short rear connectors	LV429235	
	long rear connectors	LV429236	
	connection adapter for plug-in base	LV429306	LV429307

⁽¹⁾ For the Compact NSX100/250, the number of modules indicated is for supply via a Linerigy FC distribution block.

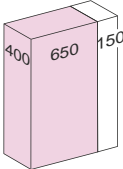
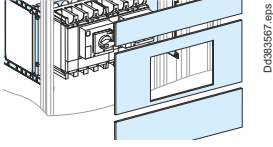
For supply via cables, two additional modules are required; add an upstream plain front plate (03802).


⁽²⁾ For ammeter, take LV429285 + LV429318 catalogue numbers.


⁽³⁾ Catalogue number 04924 is recommended when installing those references.

⁽⁴⁾ Flexible bars on Linerigy LGYE to be made according drawings supplied by Schneider Electric.

⁽⁵⁾ Size reduced one module downstream.

Mounting		Vertical plug-in							
									
Devices		Rotary handle, motor mechanism							
		NSX400		Vigi NSX400 Rotary handle		NSX630		Vigi NSX630 Rotary handle	
Number of devices per row		1	2	1	2	1	2	1	2
No. of vertical modules		11		13		13		15	
Mounting plates		03461 ⁽¹⁾		03461		03461 ⁽¹⁾		03461	
Front plates [No. of vertical modules]	upstream	03801 [1]	03802 [2]	-	03802 [2]	03802 [2]	03803 [3]	03801 [1]	03803 [3]
	with cut-out	03275 [9]	03663 [7]	03297 [11]	03666 [9]	03275 [9]	03663 [7]	03297 [11]	03666 [9]
	downstream	03801 [1]	03802 [2]	03802 [2]	03802 [2]	03802 [2]	03803 [3]	03803 [3]	03803 [3]
Collar		-		LV429285		-		LV429285	
IP40 front-panel escutcheons		-		LV429316 ⁽²⁾		-		LV429316 ⁽²⁾	

Connection		Distribution via lateral busbars	
		Linergy LGY, Linergy BS, LGYE	
Devices		Withdrawable device	
		NSX400/630, Vigi NSX400/630	
		3P	4P
Number of devices per row		1/2	
Front connection	connection	must be made with insulated flexible bars, see page B-32. ⁽³⁾	
	long terminal shields	LV432593	LV432594
	short terminal shields	LV432591	LV432592
	connection adapter for plug-in base	LV432584	LV432585
Rear connection	short terminal shields	2 x LV432591 ⁽⁴⁾	2 x LV432592 ⁽⁴⁾
	short rear connectors	LV432475	
	long rear connectors	LV432476	
	connection adapter for plug-in base	LV432584	LV432585

Distribution		Downstream in cubicle	
			
Devices		Withdrawable device	
		NSX400/630, Vigi NSX400/630	
		3P	4P
Front connection	long terminal shields	LV432593	LV432594
	short terminal shields	LV432591	LV432592
	connection adapter for plug-in base	LV432584	LV432585
Rear connection ⁽⁴⁾	short terminal shields	2 x LV432591	2 x LV432592
	short rear connectors	LV432475	
	long rear connectors	LV432476	
	connection adapter for plug-in base	LV432584	LV432585

⁽¹⁾ Catalogue number 03460 is recommended when installing an NSX with a motor mechanism.

⁽²⁾ For ammeter, take LV429285 + LV429318 catalogue numbers.

⁽³⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

⁽⁴⁾ Size reduced one module downstream.

Mounting		Horizontal withdrawable			
Devices		All controls			
		NSX100/250	Vigi NSX100/250	NSX400/630	Vigi NSX400/630
Number of devices per row		1	1	1	1
No. of vertical modules ⁽¹⁾		5	5	6	6
Mounting plates		03415	03415	03462 ⁽¹⁾	03462 ⁽¹⁾
Front plates [No. of vertical modules] with cut-out		03618 [5]	03618 [5]	03657 [6]	03657 [6]
Collar		LV429284	LV429285	LV432534	LV429285
Locking kit ⁽²⁾		LV429286	LV429286	LV429286 ⁽³⁾	LV429286 ⁽³⁾
Connection		Distribution via lateral busbars			
		Linergy LGY			
Devices		All controls		NSX400/630, Vigi NSX400/630	
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630	
		3P	4P	3P	4P
Prefabricated connection for toggle		04431	04432	04461	04462
Prefabricated connection for rotary handle & motor mechanism		04427 ⁽⁴⁾	04428 ⁽⁴⁾	must be made with insulated flexible bars, see page B-32 ⁽⁵⁾ .	
Connection adapter for plug-in base		-	-	LV432584 ⁽⁶⁾	LV432585 ⁽⁶⁾
Short terminal shields		LV429515	LV429516	LV432591	LV432592
Long terminal shields		-	-	LV432593 ⁽⁶⁾	LV432594 ⁽⁶⁾
		Linergy BS, LGYE			
Devices		All controls		NSX400/630, Vigi NSX400/630	
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630	
		3P	4P	3P	4P
Connection		must be made with insulated flexible bars, see page B-32.			
Connection adapter for plug-in base		LV429306	LV429307	LV432584 ⁽⁶⁾	LV432585 ⁽⁶⁾
Short terminal shields		LV429515	LV429516	LV432591	LV432592
Long terminal shields		LV429517	LV429518	LV432593 ⁽⁶⁾	LV432594 ⁽⁶⁾
Distribution		Downstream in cubicle			
Devices		Vertical withdrawable		NSX400/630, Vigi NSX400/630	
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630	
		3P	4P	3P	4P
Front connection		connection adapter for plug-in base	LV429306	LV429307	LV432584
		long terminal shields	LV429517	LV429518	LV432593
		short terminal shields	LV429515	LV429516	LV432591
Connection transfer assembly		connection	04429 ⁽⁷⁾	04430 ⁽⁷⁾	04459 ⁽⁷⁾
		connection adapter for plug-in base	LV429306	LV429307	LV432584
		long terminal shields	LV429517	LV429518	LV432593
		short terminal shields	LV429515	LV429516	LV432591
Rear connection		short terminal shields	2 x LV429515	2 x LV429516	2 x LV432591
		short rear connectors	LV429235	LV429235	LV432475
		long rear connectors	LV429236	LV429236	LV432476
		connection adapter for plug-in base	LV429306	LV429307	LV432584

(1) Catalogue number 03460 is recommended when installing an NSX with a motor mechanism.

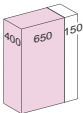
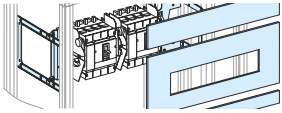
(2) If mounting several above one another chassis + form 3b + chassis locking kit LV429286, the number of vertical modules must be increased by 2 ; it is necessary to add a 2 modules front plate 03802.

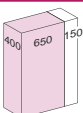
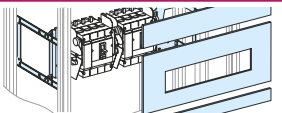
(3) Not compatible with NSX630.


(4) Compatible with Linergy LGYE vertical busbar.


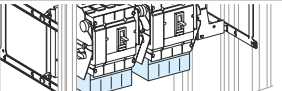
(5) To be made according to the busbar drawings supplied by Schneider Electric.

(6) Only for Rotary handle and motor mechanism. - (7) No connection.

Mounting		Vertical withdrawable							
									
Devices		All controls							
		NSX100/160	NSX250	NSX400	NSX400 toggle	NSX400 rotary handle + motor mechanism	NSX630	NSX630 toggle	NSX630 rotary handle + motor mechanism
Number of devices per row		2	2	2	1	1	2	1	1
No. of vertical modules		8	9	11	11	11	13	13	13
Mounting plates		03421	03421	03461 (1)	03461	03461 (1)	03461 (1)	03461	03461 (1)
Front plates [No. of vertical modules]	upstream	03802 [2]	03802 [2]	03802 [2]	03801 [1]	03801 [1]	03803 [3]	03802 [2]	03802 [2]
	with cut-out	03243 [5]	03243 [5]	03663 [7]	03275 [9]	03275 [9]	03663 [7]	03275 [9]	03275 [9]
	downstream	03801 [1]	03802 [2]	03802 [2]	03801 [1]	03801 [1]	03803 [3]	03802 [2]	03802 [2]
Collar		LV429284 (2)	LV429284 (2)	LV432534 (2)	LV432534	-	LV432534 (2)	LV432534	-

Mounting		Vertical withdrawable							
									
Devices		All controls							
		Vigi NSX100/160	Vigi NSX250	Vigi NSX400 toggle		Vigi NSX400 rotary handle + motor mechanism		Vigi NSX630 rotary handle + motor mechanism	
Number of devices per row		2	2	1	2	1	2	1	2
No. of vertical modules		10	11	13		13		15	
Mounting plates		03421	03421	03461	03461	03461	03461	03461	03461
Front plates [No. of vertical modules]	upstream	03802 [2]	03802 [2]	-	03802 [2]	-	03802 [2]	03801 [1]	03803 [3]
	with cut-out	03244 [7]	03244 [7]	03297 [11]	03666 [9]	03297 [11]	03666 [9]	03297 [11]	03666 [9]
	downstream	03801 [1]	03802 [2]	03802 [2]	03802 [2]	03802 [2]	03802 [2]	03803 [3]	03803 [3]
Collar		LV429285 + LV429284 (2)	LV429285 + LV429284 (2)	LV429285 + LV432534 (2)		LV429285		LV429285 + LV432534	

Connection		Distribution via lateral busbars			
		Linergy LGY, Linergy BS, LGYE			
Devices		Withdrawable device			
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630	
Number of devices per row		3P 4P		3P 4P	
Front conn.		must be made with insulated flexible bars, see page B-32.			
Front conn.	long terminal shields	LV429517	LV429518	LV432593	LV432594
	short terminal shields	LV429515	LV429516	LV432591	LV432592
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
Rear conn.	short terminal shields	2 x LV429515	2 x LV429516	2 x LV432591	2 x LV432592
	short rear connectors	LV429235	LV429235	LV432475	LV432475
	long rear connectors	LV429236	LV429236	LV432476	LV432476
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585

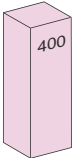
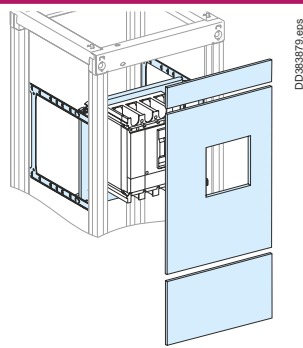
Distribution		Downstream in cubicle			
					
Devices		Vertical withdrawable NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630	
		3P 4P		3P 4P	
Front conn.	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
	short terminal shields on device	LV429515	LV429516	LV432591	LV432592
	long terminal shields on plug-in base	LV429517	LV429518	LV432593	LV432594
Rear conn.	short terminal shields	2 x LV429515	2 x LV429516	2 x LV432591	2 x LV432592
	short rear connectors	LV429235	LV429235	LV432475	LV432475
	long rear connectors	LV429236	LV429236	LV432476	LV432476
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585


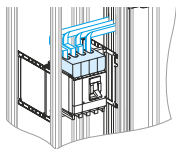
(1) Catalogue number 03460 is recommended when installing an NSX with a motor mechanism.
(2) For devices with toggle only.


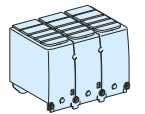
Functional system
Functional units
W = 400 mm
Circuit breakers

Compact NSX100 to 630

Vertical mounting
All controls
Fixed/Plug-in

Mounting		Device vertical, front connection							
									
Devices		Fixed/Plug-in Compact NSX100/250		Fixed/Plug-in Vigicompact NSX100/250		Fixed/Plug-in Compact NSX400/630		Fixed/Plug-in Vigicompact NSX400/630	
		Toggle	Rotary handle Motor mechanism	Toggle		Toggle, Rotary handle Motor mechanism		Toggle	
Number of devices per row		1	1	1		1		1	
No. of vertical modules		9	9	11		12		14	
Mounting plates		03050	03051	03050		03487		03487	
Adapter Prisma G		03596	03596	03596		-		-	
Front plates [No. of vertical modules]		with cut-out downstream 03253 [9]	03253 [9]	03293 [11]		03283 [12]		03299 [10]	
		-	-	-		-		03814 [4]	
Collar		-	-	LV432534		-		LV432534	

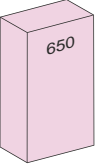
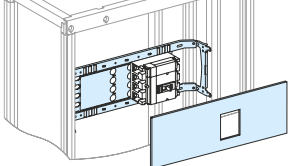
Connection		Distribution via lateral busbars								
										
Devices		Linergy LGY, Linergy BS, LGYE								
		Fixed device		Plug-in device						
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630		
		3P	4P	3P	4P	3P	4P	3P	4P	
Connection		must be made with insulated flexible bars, see page B-32 and according to the drawings supplied by Schneider Electric.								
Front connection		connection adapter for plug-in base	-	-	-	LV429306	LV429307	LV432584	LV432585	
		short terminal shields	-	-	-	LV429515	LV429516	LV432591	LV432592	
		long terminal shields	LV429517	LV429518	LV432593	LV432594	LV429517	LV429518	LV432593	LV432594


Distribution		Downstream in cubicle								
										
Devices		Fixed device		Plug-in device						
		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630		NSX100/250, Vigi NSX100/250		NSX400/630, Vigi NSX400/630		
		3P	4P	3P	4P	3P	4P	3P	4P	
Front connection		short terminal shields	-	-	-	LV429515	LV429516	LV432591	LV432592	
		long terminal shields	LV429517	LV429518	LV432593	LV432594	LV429517	LV429518	LV432593	LV432594
		connection adapter for plug-in base	-	-	-	-	LV429306	LV429307	LV432584	LV432585
Rear connection		short terminal shields	LV429515	LV429516	LV432591	LV432592	2 x LV429515	2 x LV429516	2 x LV432591	2 x LV432592
		short rear connectors	LV429235	LV429235	LV432475	LV432475	LV429235	LV429235	LV432475	LV432475
		long rear connectors	LV429236	LV429236	LV432476	LV432476	LV429236	LV429236	LV432476	LV432476
		connection adapter for plug-in base	-	-	-	-	LV429306	LV429307	LV432584	LV432585


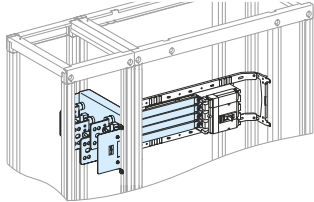
Easypact CVS100/630

Horizontal fixed mounting

Toggle

Mounting	Horizontal fixed			
				
Devices	Toggle		Easypact CVS400/630	
	Easypact CVS100/250		Easypact Vigi CVS400/630	
	Easypact Vigi CVS100/250		Easypact Vigi CVS400/630	
	3P	4P	3P	4P
Number of devices per row	1	1	1	1
No. of vertical modules	3	4	4	5
Mounting plates	03411	03412	03451	03452
Front plates with cut-out [No. of vertical modules]	03611 [3]	03612 [4]	03651 [4]	03652 [5]

Connection	Distribution via lateral busbars			
	Linergy LGY, Linergy BS, LGYE			
Devices	Toggle		Easypact CVS400/630	
	Easypact CVS100/250		Easypact Vigi CVS400/630	
	Easypact Vigi CVS100/250		Easypact Vigi CVS400/630	
	3P	4P	3P	4P
Connection	must be made with insulated flexible bars, see page B-32.			
Long terminal shields	LV429517	LV429518	LV432593	LV432594

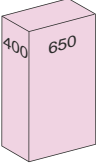
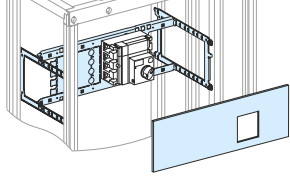
Distribution	Downstream in cubicle								
									
Devices	Toggle		Easypact Vigi CVS100/250		Easypact CVS400/630		Easypact Vigi CVS400/630		
	3P	4P	3P	4P	3P	4P	3P	4P	
Front connection	long terminal shields	LV429517	LV429518	LV429517	LV429518	LV432593	LV432594	LV432593	LV432594
Connection transfer assembly	connection	04429 ⁽¹⁾	04430 ⁽¹⁾	04429 ⁽¹⁾	04430 ⁽¹⁾	04459 ⁽¹⁾	04460 ⁽¹⁾	04459 ⁽¹⁾	04460 ⁽¹⁾
	long terminal shields	LV429517	LV429518	LV429517	LV429518	LV432593	LV432594	LV432593	LV432594
Rear connection	short terminal shields	LV429515	LV429516	LV429515	LV429516	LV432591	LV432592	LV432591	LV432592
	short rear connectors	LV429235		LV429235		LV432475		LV432475	
	long rear connectors	LV429236		LV429236		LV432476		LV432476	


⁽¹⁾ No connection.


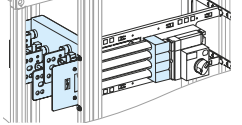
Easypact CVS100/630

Horizontal fixed mounting

Rotary handle

Mounting		Horizontal fixed			
					
Devices		Rotary handle		Easypact CVS400/630	
		Easypact CVS100/250		Easypact Vigi CVS400/630	
		Easypact Vigi CVS100/250		Easypact Vigi CVS400/630	
		3P	4P	3P	4P
Number of devices per row		1	1	1	1
No. of vertical modules		3	4	4	5
Mounting plates		03413	03414	03453	03454
Front plates with cut-out [No. of vertical modules]		03604 [3]	03606 [4]	03643 [4]	03644 [5]
Collar ⁽¹⁾		LV429285	LV429285	LV429285 + LV429527	LV429285 + LV429527

Connection		Distribution via lateral busbars			
		Linergy LGY, Linergy BS, LGYE			
Devices		Rotary handle		Easypact CVS400/630	
		Easypact CVS100/250		Easypact Vigi CVS400/630	
		Easypact Vigi CVS100/250		Easypact Vigi CVS400/630	
		3P	4P	3P	4P
Connection		must be made with insulated flexible bars, see page B-32.			
Long terminal shields		LV429517	LV429518	LV432593	LV432594

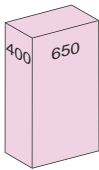
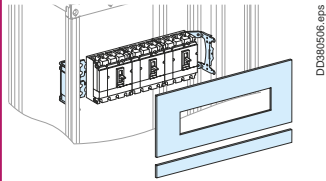
Distribution		Downstream in cubicle			
					
Devices		Fixed device		Easypact CVS400/630	
		Easypact CVS100/250		Easypact Vigi CVS400/630	
		Easypact Vigi CVS100/250		Easypact Vigi CVS400/630	
		3P	4P	3P	4P
Front connection	long terminal shields	LV429517	LV429518	LV432593	LV432594
Connection transfer assembly	connection	04429 ⁽²⁾	04430 ⁽²⁾	04459 ⁽²⁾	04460 ⁽²⁾
	long terminal shields	LV429517	LV429518	LV432593	LV432594
Rear connection	short terminal shields	LV429515	LV429516	LV432591	LV432592
	short rear connectors	LV429235		LV432475	
	long rear connectors	LV429236		LV432476	


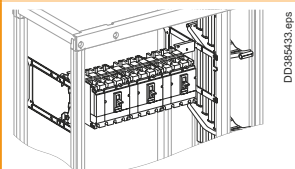
(1) On Vigi CVS only.
(2) No connection.


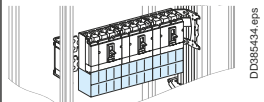
Easypact CVS100/630

Vertical fixed mounting

Toggle

Mounting		Vertical fixed							
									
Devices		Toggle							
		Easypact CVS100/250		Easypact Vigi CVS100/250		Easypact CVS400/630		Easypact Vigi CVS400/630	
		3P	4P	3P	4P	3P	4P	3P	4P
Number of devices per row		4	3	4	3	1		1	
No. of vertical modules		9		11		13		15	
Mounting plates		03420		03420		03461		03461	
Front plates		03802 [2]		03802 [2]		03802 [2]		03801 [1]	
[No. of vertical modules]		upstream		with cut-out		downstream		03276 [11]	
		03802 [2]		03802 [2]		03802 [2]		03803 [3]	

Connection		Distribution via lateral busbars						
								
Devices		Toggle						
		Easypact CVS100/250		Easypact Vigi CVS100/250		Easypact CVS400/630		
		3P	4P	3P	4P	3P	4P	
Number of devices per row		3/4				1		
Connection		must be made with insulated flexible bars, see page B-32.						
Front connection		long terminal shields	LV429517	LV429518	LV429517	LV429518	LV432593	LV432594
Rear connection		short terminal shields	LV429515	LV429516	LV429515	LV429516	LV432591	LV432592
		short rear connectors	LV429235		LV429235		LV432475	
		long rear connectors	LV429236		LV429236		LV432476	
Divisible blanking plate		03249		03249		03249		
Divisible blanking plate + electronic trip unit		03222		03222		03222		

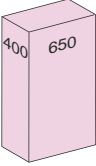
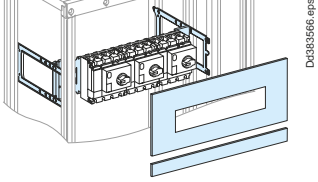
Distribution		Downstream in cubicle				
						
Devices		Toggle		Easypact CVS250, Easypact Vigi CVS250		
		Easypact CVS100/160, Easypact Vigi CVS100/160		3P	4P	
Front connection		long terminal shields	LV429517	LV429518	LV429517	LV429518
Rear connection		short terminal shields	LV429515 ⁽¹⁾	LV429516 ⁽¹⁾	LV429515 ⁽¹⁾	LV429516 ⁽¹⁾
		short rear connectors	LV429235		LV429235	
		long rear connectors	LV429236		LV429236	


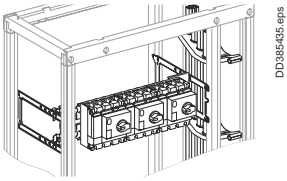
(1) Size reduced one module downstream.


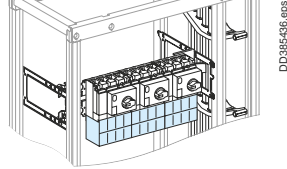
Easypact CVS100/630

Vertical fixed mounting

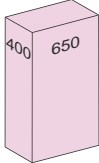
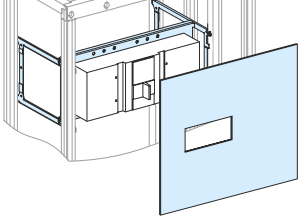
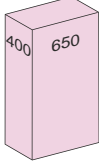
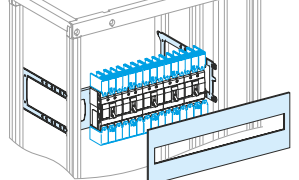
Rotary handle

Mounting		Vertical fixed							
									
Devices		Rotary handle							
		Easypact CVS100/250		Vigi CVS100/250		Easypact CVS400/630		Easypact Vigi CVS400/630	
		3P	4P	3P	4P	3P	4P	3P/4P	3P/4P
Number of devices per row		4	3	4	3	1		1	2
No. of vertical modules		9		11		13		15	13
Mounting plates		03422		03422		03461		03461	03461
Front plates		03802 [2]		03802 [2]		03802 [2]		03802 [2]	03802 [2]
[No. of vertical modules]		03243 [5]		03244 [7]		03275 [9]		03297 [11]	03665 [9]
upstream		03802 [2]		03802 [2]		03802 [2]		03802 [2]	03802 [2]
with cut-out		03802 [2]		03802 [2]		03802 [2]		03802 [2]	03802 [2]
downstream		-		LV429285		-		-	-
Collar		-		-		-		-	-

Connection		Distribution via lateral busbars							
									
Devices		Rotary handle							
		Easypact CVS100/250		Vigi CVS100/250		Easypact CVS400/630			
		3P	4P	3P	4P	3P	4P		
Number of devices per row		3/4				1			
Connection		must be made with insulated flexible bars, see page B-32.							
Front connection	long terminal shields	LV429517	LV429518	LV429517	LV429518	LV432593	LV432594		
Rear connection	short terminal shields	LV429515	LV429516	LV429515	LV429516	LV432591	LV432592		
	short rear connectors	LV429235		LV429235		LV432475			
	long rear connectors	LV429236		LV429236		LV432476			
Divisible blanking plate		03249		03249		03249			
Divisible blanking plate + electronic trip unit		03222		03222		03222			

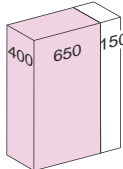
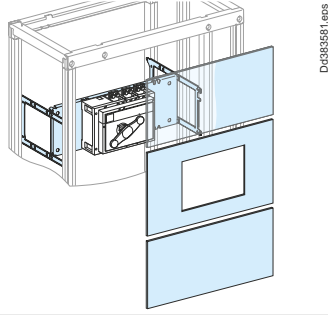
Distribution		Downstream in cubicle							
									
Devices		Fixed device		Easypact CVS400/630,		Easypact Vigi CVS400/630			
		Easypact CVS100/250,		Easypact Vigi CVS100/250					
		3P	4P	3P	4P				
Front connection	long terminal shields	LV429517	LV429518	LV432593	LV432594				
Rear connection	short terminal shields	LV429515 ⁽¹⁾	LV429516 ⁽¹⁾	LV432591 ⁽¹⁾	LV432592 ⁽¹⁾				
	short rear connectors	LV429235		LV432475					
	long rear connectors	LV429236		LV432476					


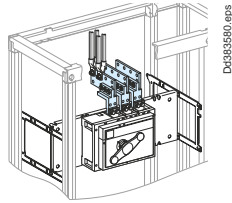
(1) Size reduced one module downstream.


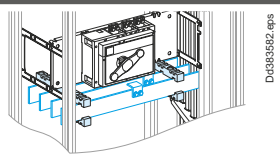
Mounting		Horizontal fixed						
								
Devices		Toggle Easypact Ezc250 Easypact EzcV250		Easypact Ezc400/630				
		3P	4P	3P	4P			
Number of devices per row		1		1				
No. of vertical modules		4		4	5			
Mounting plates		03504	03504	03451	03452			
Front plates	with cut-out	03304 [4]	03304 [4]	03651 [4]	03652 [5]			
	[No. of vertical modules]							
Long terminal shields		EZETSHD3P ⁽¹⁾	EZETSHD4P ⁽¹⁾	LV432593	LV432594			
Mounting		Vertical fixed						
								
Devices		Toggle Easypact Ezc100		Easypact Ezc250 Easypact EzcV250		Easypact Ezc400/630		
		1P	3P	4P	3P	4P	3P	4P
Number of devices per row		15	5	3	4	3	1	
No. of vertical modules		5			7		13	
Mounting plates		03502			03504		03461	
Front plates	upstream	-			-		03802 [2]	
	with cut-out	03303 [5]			03305 [7]		03273 [9]	
	downstream	-			-		03802 [2]	
Long terminal shields		-	EZATSHD3P ⁽¹⁾	EZATSHD4P ⁽¹⁾	EZETSHD3PN ⁽¹⁾	EZETSHD4PN ⁽¹⁾	LV432593	LV432594
Divisible blanking plate		03249			03249		03249	

⁽¹⁾ Set of 2.

Switch disconnectors

Mounting		Vertical fixed			
					
Devices		Fixed device		INS-INV2000/2500	
		INS-INV630b/1600			
		3P	4P	3P	4P
Number of devices per row		1		1	
No. of vertical modules		14		16	
Mounting plates		03501		03501	
Front plates		upstream		03804 [4]	
[No. of vertical modules]		with cut-out		03713 [6]	
		downstream		03804 [4]	
Characteristics		Depending on the type of front connection, an INS-INV2000-2500 can be mounted in a 400 mm or 600 mm deep enclosure. For rear connection, a 600 mm deep enclosure is required.			

Connection		With cable			
					
Devices		Fixed device		INS-INV2000/2500	
		INS-INV630b/1600			
		3P	4P	3P	4P
Vertical connection adapters		31301 ⁽¹⁾	31302 ⁽¹⁾	33975 ⁽¹⁾	33976 ⁽¹⁾
Cable-lug adapters		33644 ⁽¹⁾	33645 ⁽¹⁾	-	-
Connection		-		must be made	
Terminal extension bar support		-		04694	04694

Distribution		Connection with cable			
					
Devices		Fixed device		INS-INV2000/2500	
		INS-INV630b/1600			
		3P	4P	3P	4P
Connection LGY		04481	04482	must be made ⁽³⁾	
Connection BS, LGYE		must be made ⁽³⁾		must be made ⁽³⁾	
Cover for busbars connection		04926 ⁽²⁾		04926 ⁽²⁾	
Free support		-		2 x 04662	

⁽¹⁾ Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V.

⁽²⁾ Partitioning of devices must be made.

⁽³⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

Selection of Linergy LGY: see page B-14, **Linergy LGYE:** see page B-15, **Linergy BS:** see page B-16.

Switch disconnectors

Mounting		Horizontal fixed		Vertical fixed		
Devices		Fixed device				
		INS-INV250	INS-INV320/630	INS-INV250	INS-INV320/400	INS-INV500/630
Number of devices per row		1	1	1 2/3	1	1
No. of vertical modules		4	5	7 ⁽¹⁾	10	11
Mounting plates		03412	03452	03420	03461	03461
Front plates [No. of vertical modules]	upstream	-	-	03801 [1]	-	03801 [1]
	with cut-out	03617 [4]	03658 [5]	03248 [5] 03620 [5]	03274 [10]	03274 [10]
	downstream	-	-	03801 [1]	-	-
Connection		Distribution via lateral busbars				
		Linerigy LGY				
Devices		Fixed device				
		INS-INV250	INS-INV320/630	INS-INV250	INS-INV320/630	
Prefabricated connection		3P 04427 ⁽²⁾ 04428 ⁽²⁾	must be made ⁽³⁾	-	must be made ⁽³⁾	
Distribution block Linerigy FC		-	-	04404	-	
Long terminal shields		-	LV432594	-	LV432594	
		Accessories				
Linerigy FC tooth-caps		-	-	04809	-	
		Linerigy BS, LGYE				
Devices		Fixed device				
		INS-INV250	INS-INV320/630	INS-INV250	INS-INV320/630	
Connection		must be made ⁽³⁾		-	-	
Linerigy FC distribution blocks (without connection)		-	-	04408	must be made	
Long terminal shields		LV429518	LV432594	-	LV432594	
		Accessories				
Linerigy FC tooth-caps		-	-	04809	-	
Distribution		Downstream in cubicle				
Devices		Fixed device				
		INS-INV250	INS-INV320/630	INS-INV250	INS-INV320/630	
Front connection	long terminal shields	LV429518	LV432594	LV429518	LV432594	
	short terminal shields	LV432516	LV432592	LV432516	LV432592	
	short rear connectors	LV429235	LV432475	LV429235	LV432475	
	long rear connectors	LV429236	LV432476	LV429236	LV432476	

⁽¹⁾ For the Compact INS-INV250, the number of modules indicated is for supply via a Linerigy FC distribution block. For supply via cables, two additional modules are required; add an upstream plain front plate (03802).

⁽²⁾ Compatible with Linerigy LGYE vertical busbar.

⁽³⁾ To be made according to the busbar drawings supplied by Schneider Electric.

⁽⁴⁾ For rear connection, size reduced one module; a plain downstream front plate (03801) is not needed.



Presentation

A modular double profile rail offering a high level of performance

Made using an aluminium alloy, a-magnetic properties, the rail design is extremely rigid. The rail supports are crimp mounted.

Fast mounting

The rail supports have positioning studs to guide the rail on the framework. Only two mounting screws are required.

Multiple functions

A number of devices clip directly onto the rails, including Linergy FM 80 and 200 A Linergy FM distribution blocks, all horizontal cable-running accessories such as cable straps and trunking supports, as well as the supports for earth bars Linergy TB.

What is more, for cable running to the Linergy TB terminal block at the top or bottom of the cubicle, the supports are designed to allow the passage to two vertical trunking sections on the left and right.

Supply from all directions

Supply to the rows, using comb busbars Linergy FH or Linergy FM distribution blocks, can be via:

- > Linergy BS busbars or Linergy BW insulated busbars installed behind the devices
- > Linergy LGYE, Linergy LGY, Linergy BS installed in a busbar compartment.

PE1105004_eps



Compact NSX400 with motor mechanism, supplying rows of Multi 9 or Acti 9 devices via Linergy BW insulated busbar.

Distribution

Linergy FM 80 and 200 A distribution blocks

- > Fast and secure front connection using spring terminals.
- > Reliable connections, will not loosen over time, insensitive to vibrations and thermal variations.
- > All types of modular devices can be mixed.
- > Easy balancing of phases.
- > Interchangeable devices.
- > Easy installation upgrades.
- > Fully insulated (IPxxB).

Linergy FH comb busbars

- > Direct connection to device terminals or via a connector.
- > Fully insulated.
- > Can be cut to length.

Linergy DP quick distribution blocks

- > See page B-28

Linergy DX quick distribution blocks

- > See page B-34

Linergy DS screw distribution blocks

- > See page B-38

Cable running

Straps

- > Easy and fast to install.
- > Low cost.
- > Perfectly organised and integrated cable running.
- > Professional finish.
- > Clips to the rear of the modular rail, very small size.

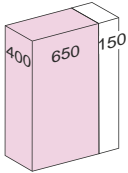
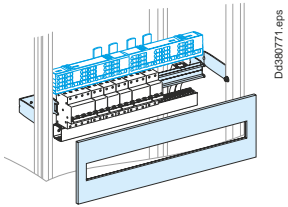
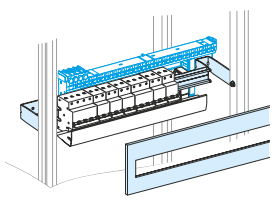
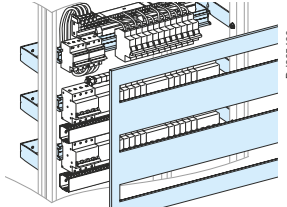
Trunking

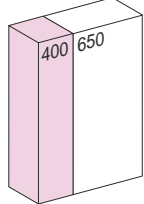
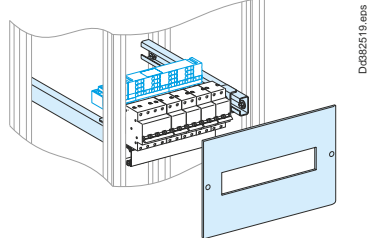
- > Traditional solution.


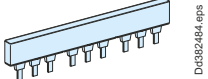
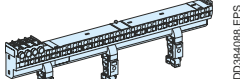
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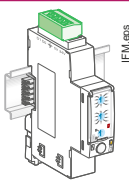
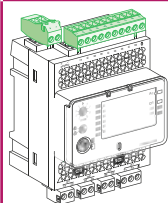
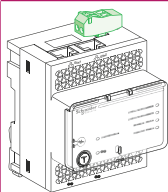
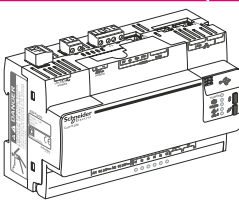
Circuit breakers

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm	
			
Devices	All modular devices	Modular devices ≤ 40 A	
Rail length (modules of 9 mm)	48	48	48
No. of vertical modules	4 ⁽¹⁾	3	8
Rail (48 modules of 9 mm)	03401	03401	3 x 03401
Modular front plates	03204 [4]	03203 [3]	03223 [8]
Blanking strip	03220	03220	03220
plate divisible	03221	03221	03221

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm	
			
Devices	All modular devices	Modular devices ≤ 40 A	
Rail length (modules of 9 mm)	20	20	
No. of vertical modules	4	3	
Rail (20 modules of 9 mm)	03404 (adjustable)	03404 (adjustable)	
Modular front plates	03214 [4]	03213 [3]	
Blanking plate strip	03220	03220	
divisible	03221	03221	

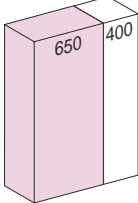
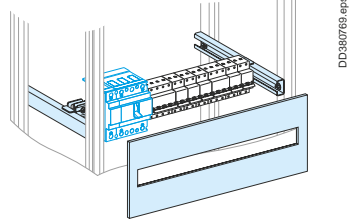
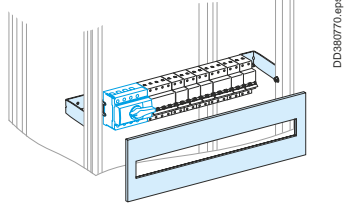
Connection	Linery FH comb busbar	Distribution block Linery FM 63 to 200 A row
		
Type of connected devices	According devices	All type
Comb busbars / distribution blocks	> page B-40	> page B-36

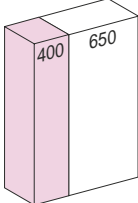
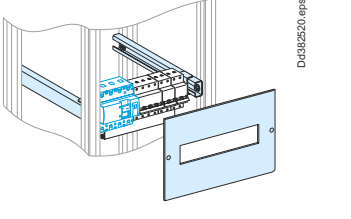
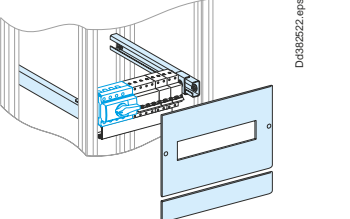
Linery TR Terminal blocks: see page B-52.


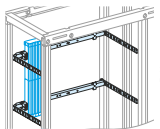
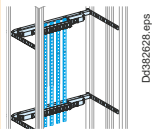
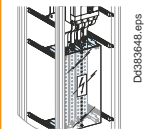
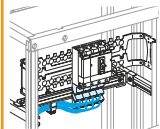
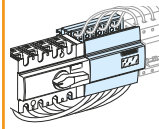
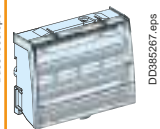
	EnerlinX devices				
	IFM	I/O module	IFE	ComX200	ComX510
					
No. of vertical modules	4				
Rail	03401 / 03404				
Modular front plates	03204 / 03214				
Characteristics	Installation by clip on a modular rail.				

(1) For a modular row with a 160 A (half row) and 200 A Linery FM distribution block positioned directly below a non-modular mounting-plate (Compact, etc.), or at the top of a switchboard, add one additional module (i.e. 4+1) and a plain upstream front plate (03801).

Circuit breakers

Mounting	Circuit breakers		Switch disconnectors	
				
Devices	NG160, NG160NA Vigi NG160	NG125, NG125NA, Vigi NG125, C120, Vigi C120, iC120, Vigi iC120	Compact INS40/160	Compact INS100/160 with long terminal shields
No. of vertical modules	5	5	4	5
Rail (48 modules of 9 mm)	03402 (adjustable) ⁽¹⁾ + 04227	03401	03401	03401
Modular front plates [No. of vertical modules]	03205 [5]	03205 [5]	03204 [4]	03205 [5]
Blanking plate strip	03220		03220	
divisible	03221		03221	

Mounting	Circuit breakers		Switch disconnectors	
				
Devices	NG160, NG160NA, NG125, NSA125/160		INS40/160	INS100/160 with long terminal shields
No. of vertical modules	5		4	5
Rail (20 modules of 9 mm)	03404 (adjustable) ⁽²⁾		03404 (adjustable)	03404 (adjustable)
Front plates modular [No. of vertical modules]	03214 [4]		03214 [4]	03214 [4]
downstream	03811 [1]		-	03811 [1]
Blanking plate strip	03220		03220	03220
divisible	03221		03221	03221

Connection	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars	Linergy DX 1P, 160 A distribution block	Linergy DX 4P, 160 A distribution block	Linergy DS multi-stage distribution
						
Type of connected devices	All type	All type	All type	All type	All type	All type
Distribution block / busbars	> page B-22	> page B-18	> page B-16	> page B-35	> page B-35	> page B-38
Connection	> page B-23	must be made	must be made	> page B-35	> page B-35	must be made

⁽¹⁾ Can be completed by a rail + raiser (cat. no. 04227) to instal modular devices on.

Note: width of NG160 circuit breakers: NG160 3P: 10 modules / NG160 4P: 14 modules
Vigi NG160 3P: 24 modules / Vigi NG160 4P: 27 modules

width of NG125 circuit breakers: NG125 3P: 9 modules / NG125 4P: 12 modules
Vigi NG125 3P ≤ 63 A: fixed sensitivity 18 modules
adjustable sensitivity 20 modules
> 63 A: fixed sensitivity 20 modules
adjustable sensitivity 20 modules
Vigi NG125 4P ≤ 63 A: fixed sensitivity 21 modules
adjustable sensitivity 23 modules
> 63 A: fixed sensitivity 23 modules
adjustable sensitivity 23 modules
C120 or iC120 3P: 9 modules / C120 or iC120 4P: 12 modules
Vigi C120 or iC120 3P: 19 modules / Vigi C120 or iC120 4P: 22 modules

width of devices: INS40/80: width 10 modules
INS100/160: width 15 modules.

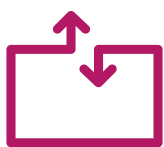
⁽²⁾ Can be completed by a rail + raiser (04227) to instal modular devices on.

Note: to mix an NSA125/160 circuit breaker with Multi 9 or Acti 9 modular devices, order (with the device) the symmetrical rail + raiser set (28041).
Width of devices: NSA125/160 3P: 10 modules / NSA125/160 4P: 14 modules.

Source-changeover



Presentation



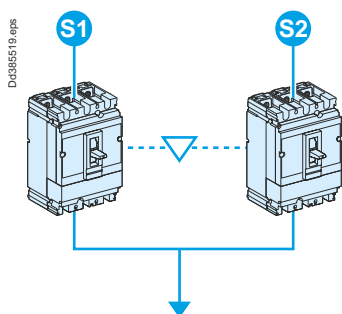
To ensure the supply of energy at all times, certain electrical installations are connected to two sources:

- > the normal source
- > the replacement source that steps in to supply the installation if the normal source is not available.

A mechanical and/or electrical interlocking system between two Compact or Masterpact switch-disconnectors or circuit breakers (or a mixture) avoids simultaneous connection of the two sources during switching.

The source-changeover system can be:

- > manual when the devices are mechanically interlocked
- > remote operated when there is also an electrical interlocking system
- > automatic, by adding an automatic controller that manages switching from one source to another according to a number of external parameters.



See the catalogue dedicated to Compact and Masterpact source-changeover systems, catalogue number: LVPED21 1 22EN

1 Manual source-changeover system

This is the most simple system. A human operator is required and consequently, the transfer from the source S1 to the source S2 is delayed.

A manual source-changeover system comprises two or three manually controlled devices (circuit breakers or switch-disconnectors) that are mechanically interlocked.

The interlocking system avoids simultaneous connection (even transient) of the two sources.

2 Remote-operated source-changeover system

This is the most commonly used system. No human intervention is required.

The transfer from the S1 to the S2 source is managed electrically.

A remote-operated source-changeover system is made up of two or three devices linked by an electrical interlocking system implemented in a number of manners.

Device control is backed up by a mechanical interlocking system that protects against the consequences of an electrical malfunction and inhibits incorrect manual operation.

3 Automatic source-changeover system

When a remote-operated source-changeover system is combined with an automatic controller, the sources can be controlled automatically according to a number of programmed operating modes.

This solution provides optimum energy management:

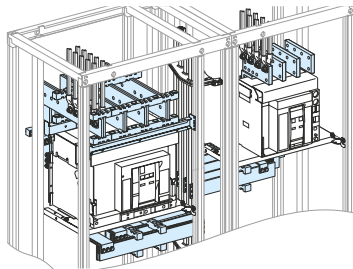
- > switching to a source S2 depending on any external conditions
- > management of sources
- > regulation
- > emergency source replacement, etc.

A communications function for dialogue with a supervisor is available for the automatic controller.



See "Installation of source-changeover systems" pages D-84 and D-85.

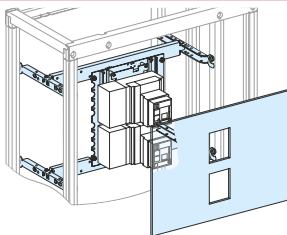
Manual source-changeover



DD383703 eps

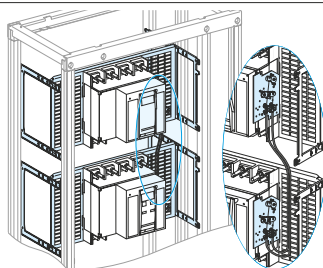
Type of device	Type of interlocking							
	Complete assembly	Toggle	Keylock	Rotary handle	On base plate	Cable-type with 2 devices side-by-side ⁽²⁾	Cable-type with 3 devices side-by-side ⁽²⁾	Cable-type with 2 devices one above another
INS250 (rating 100 to 250)								
INV100 to INV250 ⁽¹⁾								
INS320 to INS630								
INV320 to INV630 ⁽¹⁾								
NSX100 to NSX250								
NSX400 to NSX630								
NS630b to NS1600								
NT 06 to 16								
NW 08 to 32								

Remote-operated source-changeover systems - Mechanical interlocking system



DD383808 eps

Devices "S1"	Combination of Compact NSX "S1" and "S2" devices				
	"S2" NSX100	NSX160	NSX250	NSX400	NSX630
NSX100 Rating 12,5...100 A					
NSX160 Rating 12,5...160 A					
NSX250 Rating 12,5...250 A					
NSX400 Rating 160...400 A					
NSX630 Rating 250...630 A					



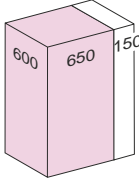
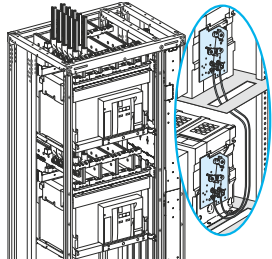
DD383578 eps

Devices "S1"	Combination of "S1" and "S2" devices, Interlocking via cables		
	"S2" NS630b to NS1600	NT06 to 16	NW08 to 40
NS630b to NS1600			
NT06 to 16			
NW08 to 40			


(1) Visible break function.


(2) In 2 or 3 cubicles.

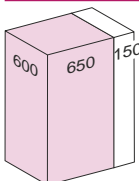
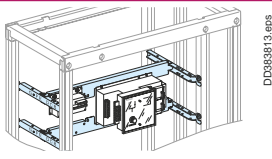
Possible combinations.

Mounting		Front connection with cables			
					

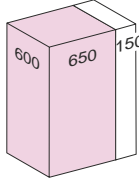
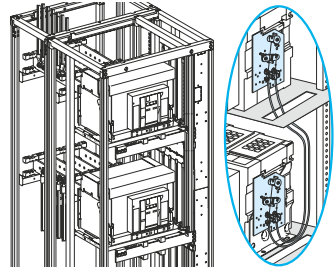


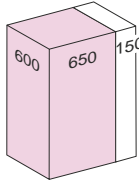
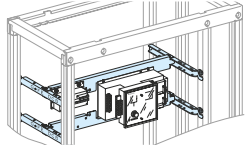
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		31	34	33	36
Mounting plates		03500	03500	03500	03500
S1 device					
Front plates [No. of vertical modules]		NW08/16	NW20/32	NW08/16	NW20/32
upstream		03804 [4]	03805 [5]	03804 [4]	03805 [5]
with cut-out		03711 [9]	03711 [9]	03710 [10]	03710 [10]
downstream		03805 [5]	03806 [6]	03805 [5]	03806 [6]
S2 device					
Front plates [No. of vertical modules]		NW08/16	NW20/32	NW08/16	NW20/32
upstream		-	-	-	-
with cut-out		03711 [9]	03711 [9]	03710 [10]	03710 [10]
downstream		03804 [4]	03805 [5]	03804 [4]	03805 [5]

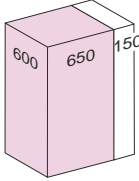
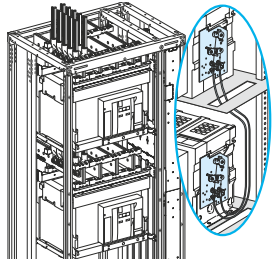
Connection					
					
Devices		Fixed device		Withdrawable device	
S1 device					
Upstream connection		NW08/16	NW20/32	NW08/16	NW20/32
Connection		Vertical rear connections supplied with the device must be made ⁽¹⁾			
S2 device					
Downstream connection		NW08/16	NW20/32	NW06/10	NW20/32
Connection		Vertical rear connections supplied with the device must be made ⁽¹⁾			

Distribution		Linergy LGY, LGYE or BS busbars			
		<i>Selection of Linergy LGY busbars: see page B-14, Linergy LGYE: see page B-15, Linergy BS: see page B-16.</i>			
S1 device					
Upstream connection		Front connections supplied with the device			
Connection		must be made ⁽¹⁾			
S2 device					
Downstream connection		Front connections supplied with the device			
Connection		must be made ⁽¹⁾			


Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		03417			
Front plates [No. of vertical mod.] with cut-out		03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			


⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

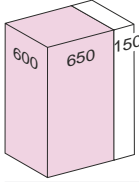
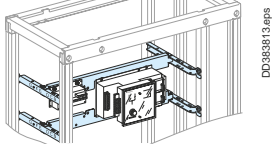
Mounting		Rear connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2		2	
Number of vertical modules		23	24	25	26
Mounting plates		03500	03500	03500	03500
S1 device					
		NW08/16	NW20/32	NW08/16	NW20/32
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	03711 [9]	03711 [9]	03710 [10]	03710 [10]
	downstream	03805 [5]	03806 [6]	03805 [5]	03806 [6]
S2 device					
		NW08/16	NW20/32	NW08/16	NW20/32
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	03711 [9]	03711 [9]	03710 [10]	03710 [10]
	downstream	-	-	-	-
Connection					
					
Devices		Fixed device		Withdrawable device	
S1 device					
		NW08/16	NW20/32	NW08/16	NW20/32
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made ⁽¹⁾			
S2 device					
		NW08/16	NW20/32	NW06/10	NW20/32
Downstream connection		Vertical rear connections supplied with the device			
Connection		must be made ⁽¹⁾			
Distribution		Linergy LGY, LGYE or BS busbars			
		<i>Selection of Linergy LGY busbars: see page B-14, Linergy LGYE: see page B-15, Linergy BS: see page B-16.</i>			
S1 device					
Upstream connection		Front connections supplied with the device			
Connection		must be made ⁽¹⁾			
S2 device					
Downstream connection		Front connections supplied with the device			
Connection		must be made ⁽¹⁾			
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		03417			
Front plates with cut-out [No. of vertical mod.]		03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			
⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.					

Mounting		Front connection with cables			
					

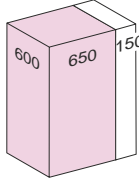
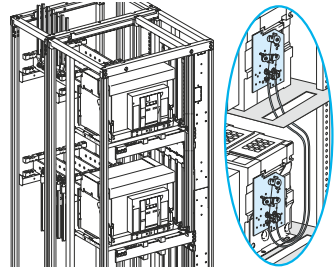


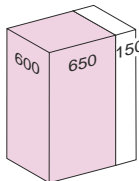
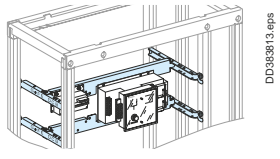
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		33	33	35	35
Mounting plates		03500	03500	03500	03500
		S1 device			
		NW08/16	NW20/32	NW08/16	NW20/32
Front plates [No. of vertical modules]	upstream	03804 [4]	03805 [5]	03804 [4]	03805 [5]
	with cut-out	03711 [9]	03711 [9]	03710 [10]	03710 [10]
	downstream	03806 [6]	03806 [6]	03806 [6]	03806 [6]
		S2 device			
		NW20/32	NW08/16	NW20/32	NW08/16
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	03711 [9]	03711 [9]	03710 [10]	03710 [10]
	downstream	03805 [5]	03804 [4]	03805 [5]	03804 [4]

Connection					
					
Devices		Fixed device		Withdrawable device	
		S1 device			
		NW08/16	NW20/32	NW08/16	NW20/32
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made ⁽¹⁾			
		S2 device			
		NW08/16	NW20/32	NWT06/10	NW20/32
Downstream connection		Vertical rear connections supplied with the device			
Connection		must be made ⁽¹⁾			

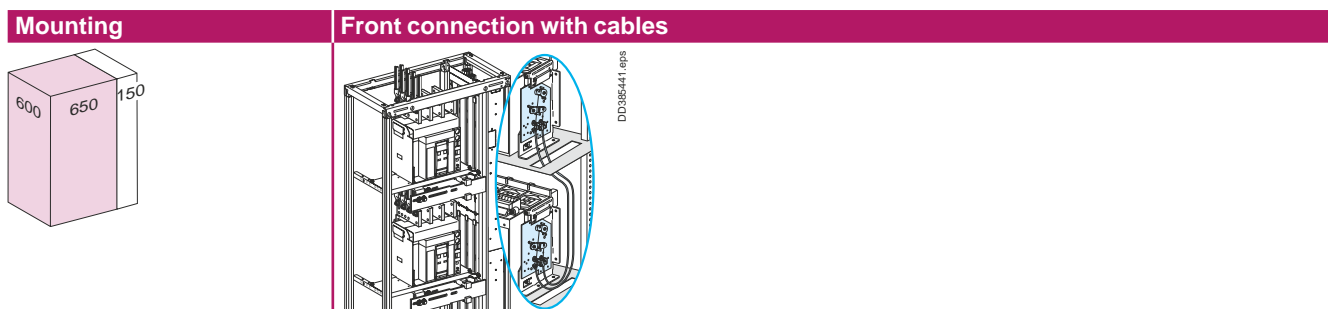
Distribution		Linergy LGY, LGYE or BS busbars			
		<i>Selection of Linergy LGY busbars: see page B-14, Linergy LGYE: see page B-15, Linergy BS: see page B-16.</i>			
		S1 device			
Upstream connection		Front connections supplied with the device			
Connection		must be made ⁽¹⁾			
		S2 device			
Downstream connection		Front connections supplied with the device			
Connection		must be made ⁽¹⁾			

Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		03417			
Front plates [No. of vertical mod.]		with cut-out 03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			


⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.


Mounting		Rear connection with cables			
					
Devices		Fixed device		Withdrawable device	
Number of devices per row		2		2	
Number of vertical modules		24		26	
Mounting plates		03500		03500	
		S1 device		S2 device	
		NW08/16		NW20/32	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	03711 [9]		03710 [10]	
	downstream	03806 [6]		03806 [6]	
		NW08/16		NW20/32	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	03711 [9]		03710 [10]	
	downstream	-		-	
Connection					
		Fixed device		Withdrawable device	
		S1 device		S2 device	
		NW08/16		NW20/32	
Upstream connection	Vertical rear connections supplied with the device				
Connection	must be made ⁽¹⁾				
		NW08/16		NW20/32	
Downstream connection	Vertical rear connections supplied with the device				
Connection	must be made ⁽¹⁾				
Distribution		Linergy LGY, LGYE or BS busbars			
		<i>Selection of Linergy LGY busbars: see page B-14, Linergy LGYE: see page B-15, Linergy BS: see page B-16.</i>			
		S1 device			
Upstream connection	Front connections supplied with the device				
Connection	must be made ⁽¹⁾				
		S2 device			
Downstream connection	Front connections supplied with the device				
Connection	must be made ⁽¹⁾				
Mounting		Controller outside the device zone			
					
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		03417			
Front plates [No. of vertical mod.] with cut-out		03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

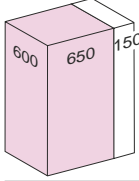
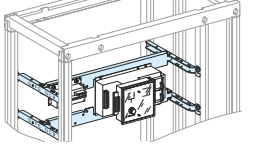
⁽¹⁾ Connection to be made according to the busbar drawings supplied by Schneider Electric.

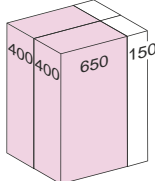
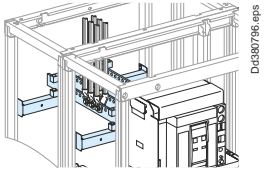


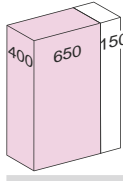
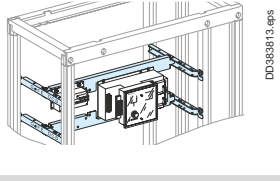


Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		24	28	26	30
Mounting plates		03484	03484	03483	03483
		S1 device			
		NT06/10		NT12/16	
Front plates [No. of vertical modules]	upstream	03802 [2]	03804 [4]	03802 [2]	03804 [4]
	with cut-out	03692 [7]	03692 [7]	03691 [8]	03691 [8]
	downstream	03803 [3]	03803 [3]	03803 [3]	03803 [3]
		S2 device			
		NT06/10		NT12/16	
Front plates [No. of vertical modules]	upstream	03803 [3]	03803 [3]	03803 [3]	03803 [3]
	with cut-out	03692 [7]	03692 [7]	03691 [8]	03691 [8]
	downstream	03802 [2]	03804 [4]	03802 [2]	03804 [4]

Connection									
									
Devices		Fixed device				Withdrawable device			
		S1 device							
		NT06/10		NT12/16		NT06/10		NT12/16	
		3P	4P	3P	4P	3P	4P	3P	4P
Upstream connection		Front connections supplied with the device							
Vertical connection adapters		33642	33643	33642	33643	33642	33643	33642	33643
		S2 device							
		NT06/10		NT12/16		NT06/10		NT12/16	
		3P	4P	3P	4P	3P	4P	3P	4P
Downstream connection		Front connections supplied with the device							
Vertical connection adapters		33642	33643	33642	33643	33642	33643	33642	33643

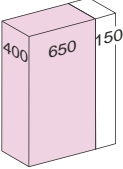
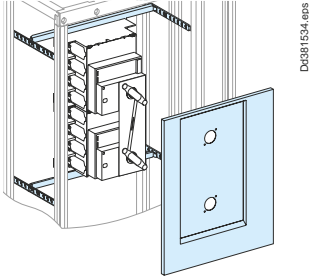

Distribution		Linergy LGY, LGYE or BS busbars							
		<i>Selection of Linergy LGY busbars: see page B-14, Linergy LGYE: see page B-15, Linergy BS: see page B-16.</i>							
		S1 device							
Upstream connection		Front connections supplied with the device							
Connection		must be made							
		S2 device							
Downstream connection		Front connections supplied with the device							
Connection		must be made							

Mounting	Outside the device zone								
									
Devices		UA or BA controller							
Number of devices per row		1							
Number of vertical modules		4							
Mounting plates		03417							
Front plates with cut-out [No. of vertical mod.]		03671 [4]							
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.							

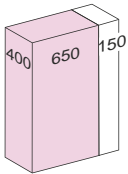
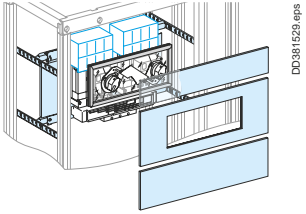
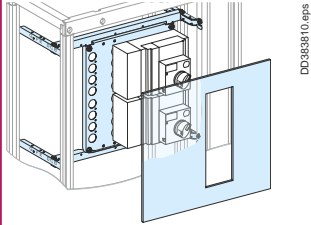

Mounting		Rear connection with cables	
			
Devices		Fixed device	Withdrawable device
Number of devices per row		2	2
Number of vertical modules		22	22
Mounting plates		03484	03483
		S1 device	
		NT06/16	NT06/16
Front plates [No. of vertical modules]	upstream	03801 [1]	-
	with cut-out	03692 [7]	03691 [8]
	downstream	03803 [3]	03803 [3]
		S2 device	
		NT06/16	NT06/16
Front plates [No. of vertical modules]	upstream	03803 [3]	03803 [3]
	with cut-out	03692 [7]	03691 [8]
	downstream	03801 [1]	-
Connection			
			
Devices		Fixed device	Withdrawable device
		S1 device	
		NT06/16	NT06/16
Upstream connection	Connection	Vertical rear connections supplied with the device must be made	
		S2 device	
		NT06/16	NT06/16
Downstream connection	Connection	Vertical rear connections supplied with the device must be made	
Distribution		Linergy LGY, LGYE or BS busbars	
		<i>Selection of Linergy LGY busbars: see page B-14, Linergy LGYE: see page B-15, Linergy BS: see page B-16.</i>	
		S1 device	
Upstream connection	Connection	Front connections supplied with the device must be made	
		S2 device	
Downstream connection	Connection	Front connections supplied with the device must be made	
Mounting		Controller outside the device zone	
			
Devices		UA or BA controller	
Number of devices per row		1	
Number of vertical modules		4	
Mounting plates		03417	
Front plates [No. of vertical mod.]		with cut-out 03671 [4]	
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.	

Mounting		Front connection with cables			
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		26	26	28	28
Mounting plates		03484	03484	03483	03483
		S1 device			
Front plates [No. of vertical modules]	upstream	NT12/16 03804 [4]	NT06/10 03802 [2]	NT12/16 03804 [4]	NT06/10 03802 [2]
	with cut-out	03692 [7]	03692 [7]	03691 [8]	03691 [8]
	downstream	03803 [3]	03803 [3]	03803 [3]	03803 [3]
		S2 device			
Front plates [No. of vertical modules]	upstream	NT06/10 03803 [3]	NT12/16 03803 [3]	NT06/10 03803 [3]	NT12/16 03803 [3]
	with cut-out	03692 [7]	03692 [7]	03691 [8]	03691 [8]
	downstream	03802 [2]	03804 [4]	03802 [2]	03804 [4]
Connection					
Devices		Fixed device		Withdrawable device	
		S1 device			
		NT06/10 3P	NT12/16 3P	NT06/10 3P	NT12/16 3P
		4P	4P	4P	4P
Upstream connection		Front connections supplied with the device			
Vertical connection adapters		33642	33643	33642	33643
		S2 device			
		NT06/10 3P	NT12/16 3P	NT06/10 3P	NT12/16 3P
		4P	4P	4P	4P
Downstream connection		Front connections supplied with the device			
Vertical connection adapters		33642	33643	33642	33643
Distribution		Linergy LGY, LGYE or BS busbars			
		Selection of Linergy LGY busbars: see page B-14, Linergy LGYE: see page B-15, Linergy BS: see page B-16.			
		S1 device			
Upstream connection		Front connections supplied with the device			
Connection		must be made			
		S2 device			
Downstream connection		Front connections supplied with the device			
Connection		must be made			
Mounting		Controller outside the device zone			
Devices		UA or BA controller			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		03417			
Front plates [No. of vertical mod.]		with cut-out 03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

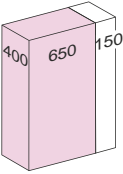
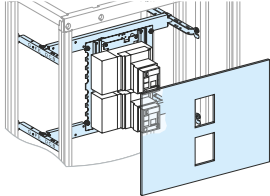
Source-changeover


Mounting		Horizontal	
			
Devices		NS630b/1000	
		3P	4P
Number of devices per row		2	
Number of vertical modules		13	
Mounting plates		03491	
Front plates		upstream -	
[No. of vertical modules]		with cut-out 03695 [13]	
		downstream -	
Mechanical interlock		33890	33890
Characteristics		Interlocking of direct rotary handles. The devices are equipped with a direct rotary handle.	
Distribution		Downstream in cubicle	
			
Type of connected devices		Compact NS630b/1000	
		3P	4P
Front connection	long terminal shields	33628 x 2	33629 x 2

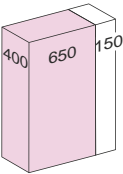
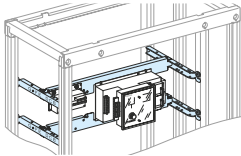
Source-changeover

Mounting		Vertical		Horizontal	
					
Devices		NSX100/250		NSX400/630	
		3P	4P	3P	4P
Number of devices per row		2		2	
Number of vertical modules		10		10	
Mounting plates		03428		03458	
Front plates		03802 [2]		-	
[No. of vertical modules]		03245 [5]		03659 [10]	
upstream		03803 [3]		-	
with cut-out					
downstream					
Mechanical interlock		LV429369	LV429369	LV432621	LV432621
Characteristics		Interlocking of rotary handles The devices are equipped with a rotary handle. They are mounted on a dedicated mounting plate.			
Distribution		Downstream in cubicle			
					
Type of connected devices		Compact NSX100/250		Compact NSX400/630	
		3P	4P	3P	4P
Front conn.	long terminal shields	LV429517	LV429518	LV432593	LV432594
	for spreader	-	-	LV432595	LV432596
Coupling accessory		LV429358	LV429359	LV432619	LV432620
Rear conn.	short terminal shields	LV429515	LV429516	LV432591	LV432592

Source-changeover

Mounting		Horizontal	
			
Devices		NSX400/630	
Number of devices per row		2	2
Number of vertical modules		8	10
Mounting plates		03417 ⁽¹⁾	03457 ⁽²⁾
Front plates [No. of vertical mod.]		03616 [8] with cut-out	03656 [10]
Characteristics		The devices are equipped with motor mechanisms.	

Distribution		Downstream in cubicle			
					
Type of connected devices		Compact NSX100/250		Compact NSX400/630	
		3P	4P	3P	4P
Front connection	long terminal shields	LV429517	LV429518	LV432593	LV432594
	for spreader	-	-	LV432595	LV432596
Coupling accessory		LV429358	LV429359	LV432619	LV432620
Rear connection	short terminal shields	LV429515	LV429516	LV432591	LV432592

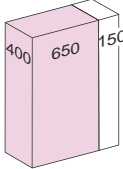
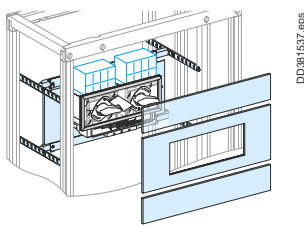
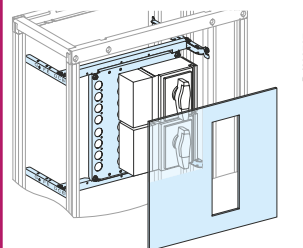
Mounting		Controller	
			
Devices		UA or BA controller	
Number of devices per row		1	
Number of vertical modules		4	
Mounting plates		03417	
Front plates [No. of vertical mod.]		03671 [4] with cut-out	
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.	

(1) Order mounting plate + IVE electrical interlocking unit for NSX100/250 (cat. no. LV29350 for AC or LV29351 for DC version).


(2) Order mounting plate + IVE electrical interlocking unit for NSX400/630 (cat. no. LV32610 for AC or LV32611 for DC version).

Incoming and busbar connections to be made.

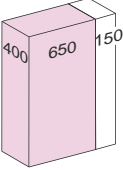
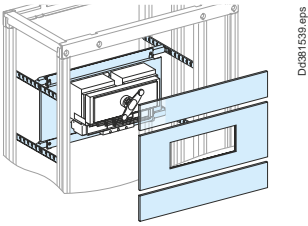
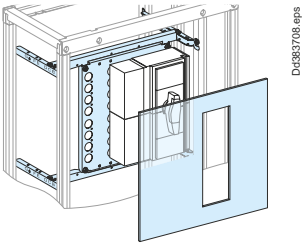

Source-changeover

Mounting	Front vertical rotary handle	Front horizontal rotary handle
		

Devices	Mechanical interlocking	
	INS-INV250	INS-INV320/630
Number of devices per row	2	2
Number of vertical modules	9	10
Mounting plates	03428	03458
Front plates	upstream	03802 [2]
[No. of vertical modules]	with cut-out	03235 [5]
	downstream	03802 [2]
Mechanical interlock	31073	31074

Distribution					
					
Type of connected devices		Compact INS-INV250		Compact INS-INV320/630	
		3P	4P	3P	4P
Front conn.	long terminal shields	2 x LV429518	2 x LV429518	-	-
	long terminal shields 45 mm	-	-	2 x LV432594	2 x LV432594
Coupling accessory		LV429359	LV429359	LV432620	LV432620

Source-changeover

Mounting		Vertical complete assembly		Horizontal complete assembly	
					
Devices		Complete source-changeover assembly			
		INS250		INS320/630	
Number of devices per row		1		1	
Number of vertical modules		9		10	
Mounting plates		03428		03458	
Front plates [No. of vertical modules]	upstream	03802 [2]		-	
	with cut-out	03247 [5]		03661 [10]	
	downstream	03802 [2]		-	
Distribution					
					
Type of connected devices		Compact INS250		Compact INS320/630	
		3P	4P	3P	4P
Front conn.	long terminal shields	2 x LV429518		-	
	long terminal shields 45 mm	-		2 x LV432594	2 x LV432594
Coupling accessory		LV429359	LV429359	LV432620	LV432620
Complete source-changeover assembly	100 A	31140	31141		
	160 A	31144	31145		
	200 A	31142	31143		
	250 A	31146	31147		
	320 A			31148	31149
	400 A			31150	31151
	500 A			31152	31153
630 A			31154	31155	



Presentation

Fupact INF from 32 to 800 A

The Fupact fuse - switch-disconnectors are designed for mounting the main fuses applying with european standards: NFC, DIN, BS.

Fupact INF ensure your power application for:

- > distribution switchboards
- > disconnection, isolation, locking and primary control of incoming circuits
- > emergency stop,
- > motor feeders (protect motors against single-phasing).

PB107591_35.eps



PB104875.eps



PB104876.eps



PB107274_22.eps



Fupact ISFT from 100 to 630 A

Fupact ISFT fuse - switch-disconnectors are particularly suited for:

- > secondary distribution circuits
- > powering and control of industrial motors as local isolation device.

Fupact ISFL from 160 to 630 A

Fupact ISFL vertical fuse - switch-disconnectors are mainly intended for:

- > main power distribution switchboard
- > public power distribution for power supply companies



Installation

Easy implementation

Fupact fusegear can be installed on mounting plates or mounted directly on the busbars. Installation is made easy by special components for each type of mounting and clear instructions in accordance with standard working practices.

All the fittings are provided

Depending on the model of the device, it can be installed:

- > vertically or horizontally
- > in the device compartment or in a lateral duct
- > by mixing the ratings of the devices and at the same time ensuring the best filling ratio

Full functional-unit performance

For INF, ISFT and ISFL fusegear, a complete set of mounting plates, front plates and prefabricated connection accessories offer all the advantages of the Prisma installation in terms of safety and ease of installation.

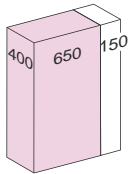
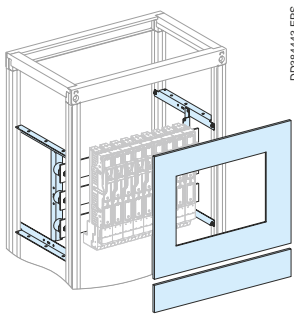
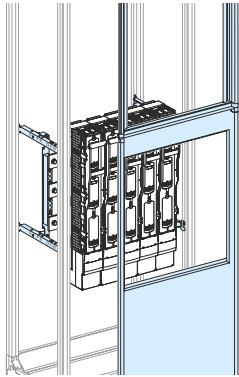
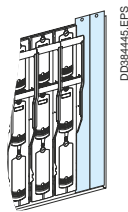
Maximum safety


Positioning and mounting of the devices in the switchboard and the percentage of space occupied take into account temperature rise, short-circuit withstand capacities, clearances, etc.

PB104887.eps



Fusegear

Mounting	Through cut-out front plate	Through a 2/3 cut-out front plate			Accessories
					
Devices	ISFL160	ISFL160	ISFL250/400/630	ISFL 1250	
Number of devices per row	9	10	5	2	-
Number of vertical modules	11	24	24	24	-
Mounting plates	03546 + ⁽¹⁾	03546 + ⁽¹⁾	03546 ⁽¹⁾ + ⁽²⁾	03546 + ⁽²⁾	-
Length adapter	-	+ 5 x LV480870 ⁽²⁾	-	-	-
Conversion kit for direct conn.	-	+ 5 x LV480854 ⁽²⁾	-	-	-
Front plates with cut-out [No. of vertical mod.]	03736 [11]	-	-	-	-
FAV 2/3	-	03735 [24 + 12]	03735 [24 + 12]	03735 [24 + 12]	-
Side frame door cut-out	2 x LV480868	2 x LV480868	2 x LV480868	2 x LV480868	-
Blanking plate	03740	03740	03741 ⁽³⁾	2 x 03741	-
Busbars cover	-	-	-	-	04860
Characteristics	<ul style="list-style-type: none"> ■ The fuses are installed on the horizontal bars which are in turn supported by a mounting plate ■ The front plates are secured to the hinged front plate support frame. ■ The front may be covered either by a cover frame or a plain or transparent door. ■ Current transformers can be installed behind ISFL fuse-switch disconnectors. 	<ul style="list-style-type: none"> ■ The fuses are installed on the horizontal bars which are in turn supported by a mounting plate ■ The front of the cubicle is made up of two parts: <ul style="list-style-type: none"> □ 2/3 cut-out front plate allowing introduction of the fuses □ 1/3 front plate support frame (12 modules) on which the functional units are mounted ■ The front may be covered either by a cover frame or a plain or transparent door. ■ Current transformers can be installed behind ISFL fuse-switch disconnectors. 			

Connection	Direct
	
Devices	ISFL160/630
Connection	By cables or directly on the busbars with clamp fixing or pressure fixing

Distribution	
	
Devices	ISFL160/630
Downstream connection	With cable

⁽¹⁾ The bars are made by the customer: for choice of bars, see pages B-12 to B-19.

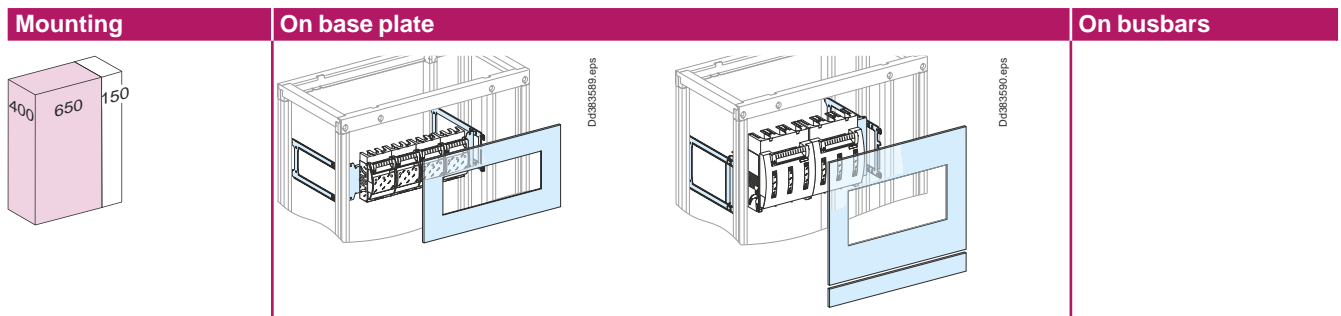
⁽²⁾ Adaptation accessories LV480870 + LV480855 used to:

- install two ISFL160 devices on a mounting plate 03546
- mix ISFL devices.


⁽³⁾ Use 2 blanking plates per device.


Note:

- for ISFL160, by fixing screws only.
- for determining the busbar, see page D-51.



Devices	ISFT100	ISFT100N	ISFT160	ISFT250	ISFT400	ISFT630	ISFT100N	ISFT160
Number of devices per row	5	8	4	2	2	1	6	4
Number of vertical modules	6	8	6	9	9	10	8	6
Mounting plates	03554	03553	03556	03557	03557	03557	03555	03555
Front plates [No. of vertical mod.]	with cut-out downstream							
	03320 [6]	03325 [8]	03321 [6]	03322 [9]	03323 [9]	03324 [8]	03325 [8]	03321 [6]
	-	-	-	-	-	03802 [2]	-	-

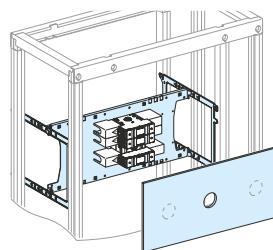
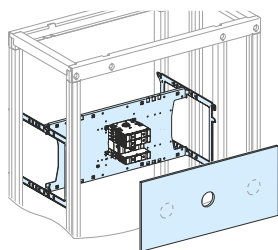
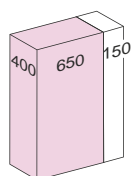
Connection	Direct							
								
Devices	ISFT100	ISFT100N	ISFT160	ISFT250	ISFT400	ISFT630	ISFT100N	ISFT160
Connection	must be made Downstream, with cable or flexible bars							
Short terminal shields	-	-	49880	-	-	-	-	-
Long terminal shields	-	LV480756	2 x 49869	2 x 49872	2 x 49875	2 x 49876	-	2 x 49869

Distribution		
		
Linery FH for 2 devices	49861	49861
for 3 devices	49862	49862
for 4 devices	49863	49863
Coupler to connect 2 busbars	49890	49890
Tooth cap	49864	49864
Set of 3 connectors (25 to 95 mm²)	49865	49865
Set of 3 distribution connectors 3 x 10 mm²	49860	49860

Note: for determining the busbar, see page D-51.

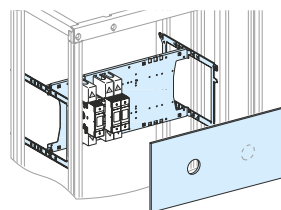
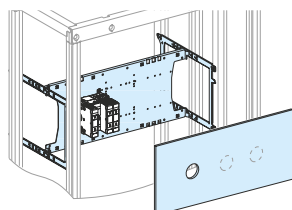
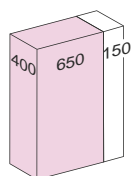
Fusegear/Switch-disconnector

Mounting Horizontal



Devices	INF32/40 3P/4P	INF63 3P 4P	INF100/160 3P 4P	INF200 3P/4P	INF250 3P/4P	INF400 3P/4P	INF600/800 3P 4P
Number of devices per row	1	1	1	1	1	1	1
Number of vertical modules	3	5	5	7	7	8	11
Mounting plates	03540	03541	03541	03534	03534	03535	03536
Front plates with cut-out [No. of vertical mod.]	03313 [3]	03314 [5]	03314 [5]	03727 [7]	03727 [7]	03729 [8]	03730 [11]

Mounting Vertical



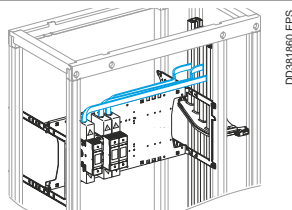
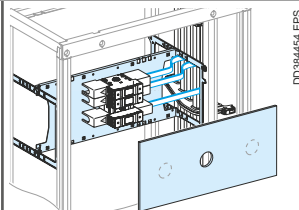
Devices	INF32/40 3P 4P	INF63 3P 4P	INF100/160 3P 4P	INF200 3P/4P	INF250 3P/4P	INF400 3P/4P	INF600/800 3P 4P
Number of devices per row	4 3	3 2	2 2	1	1	1	1
Number of vertical modules	3	5	5	9	9	9	11
Mounting plates	03540	03541	03541	03537	03537	03537	03537
Front plates upstream	-	-	-	03801 [1]	03801 [1]	03801 [1]	03802 [2]
Front plates with cut-out [No. of vertical mod.]	03312 [3] 03313 [3]	03314 [5] 03315 [5]	03315 [5]	03728 [6]	03728 [6]	03728 [6]	03728 [6]
Front plates downstream	-	-	-	03802 [2]	03802 [2]	03802 [2]	03803 [3]

Connection Direct



Devices	INF32/40 3P/4P	INF63 3P/4P	INF100/160 3P/4P	INF200 3P/4P	INF250 3P/4P	INF400 3P/4P	INF600/800 3P/4P
Short terminal shields	-	-	-	LV480550 ⁽¹⁾	LV480552 ⁽¹⁾	LV480554 ⁽¹⁾	LV480556 ⁽¹⁾
Long terminal shields	-	-	LV480445 ⁽¹⁾	LV480551 ⁽¹⁾	LV480553 ⁽¹⁾	LV480555 ⁽¹⁾	LV480557 ⁽¹⁾

Distribution Lateral busbars



Busbars connection Linergy LGYE, Linergy LGY or Linergy BS busbars ⁽²⁾
Must be made

⁽¹⁾ Set of 1: 3 x 3P, 4 x 4P.
⁽²⁾ Selection of flexible bars for the connection INF ≤ 630 A: see page B-32.

Others



Presentation

Prisma P cubicles can be used for installation of the new “VarplusCan” power factor correction modules designed to improve power system quality and reduce consumption of reactive energy.

These modules are made up of capacitors, contactors and special protection against internal faults.

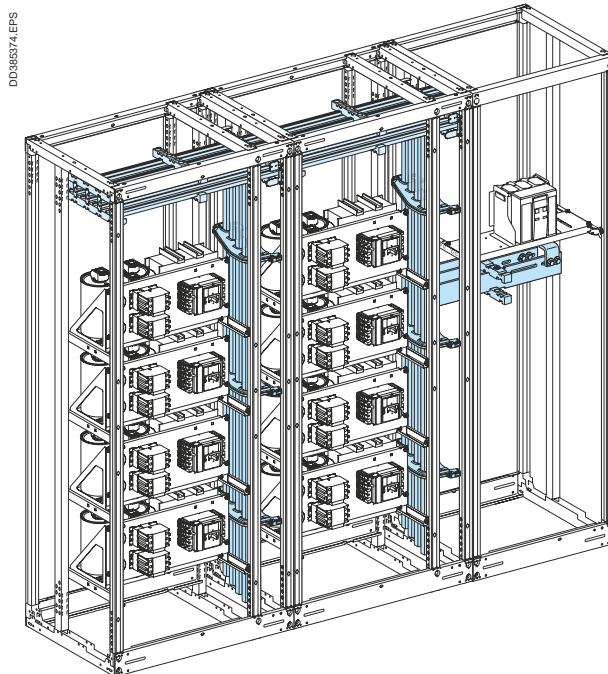
The power factor correction modules are installed horizontally in a cubicle.

It is necessary to select each devices to create the power factor correction module according to the “Panelbuilder guide of Power Factor correction” number FCED111008EN.

The busbars are supplied by a protection device installed in an adjacent cubicle.

Special Prisma P cubicles are used for power factor correction, given the temperature rise inside the cubicles.

They comply with and are tested according to standard IEC 61439-1 et 2.



Installation

Mounting plates are equipped with the power factor correction modules, made up of a contactor, the corresponding protection fuses and a set of busbars.

- > They are installed in a 650 mm + 150 mm wide cubicle that is either 400 or 600 mm deep depending on the depth of the switchboard to which it will be added.
- > Each cubicle can be equipped with up to 5 VarplusCan power factor correction Modules (100kvar) or up to 4 VarplusCan with detuned reactor power factor correction Modules (50 kvar), positioned one above the other.
- > The cubicle has a ventilated roof that can be equipped with one or two fans.
- > The door has cut-outs, one for the VarplusLogic power factor controller and another in the bottom for a filter.

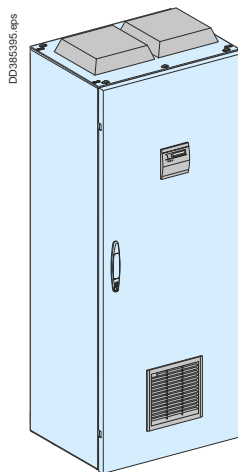
Device installation

VarplusCan with detuned reactor:

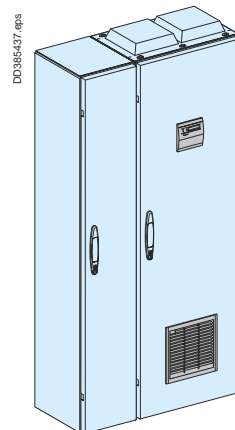
- > No. of power factor correction modules per cubicle: 4
- > Power range (kvar): 200
- > Catalogue number: **03979**.

VarplusCan without detuned reactor:

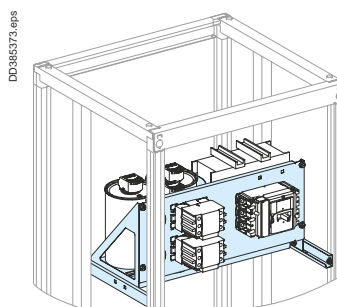
- > No. of power factor correction modules per cubicle: 5
- > Power range (kvar): 500
- > Catalogue number: **03979**.



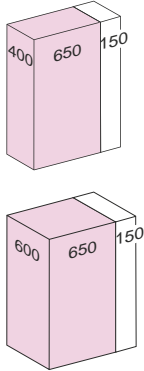
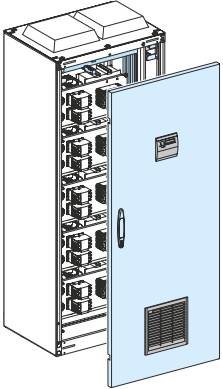
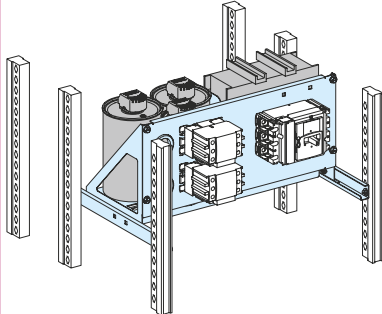
Standard cubicle supplied via the bottom.

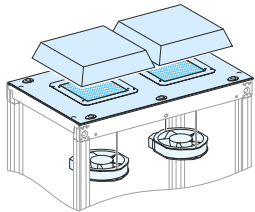


Cubicle with a 300 mm wide compartment for incoming cables via the top.



Others

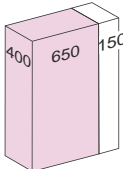
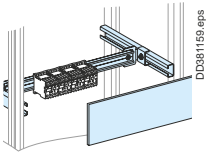
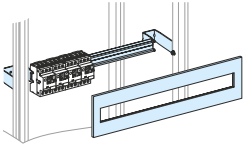
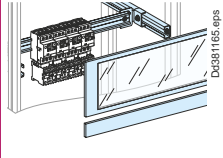
Mounting	Door with cut-outs	Mounting plate
		
Catalogue number	03970	03979
Characteristics	Special standard cover panels are used. However, a special IP30 door is used (W650 mm with hinges on left only) that has cut-outs, one for the VarplusLogic power factor controller and another in the bottom for a filter.	The mounting plates are designed for installation of capacitors, contactors and devices protecting against internal faults. The power factor correction modules are installed horizontally in the cubicle. Gasket gland plate NSYTPV is necessary for mounting plate wiring.

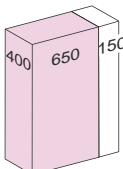
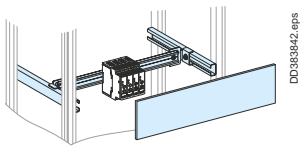
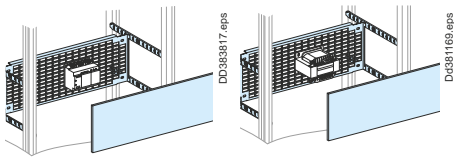
Mounting	Ventilation accessories					
						
Cover panels	Roof with cut-out D = 400 mm D = 600 mm	Fan + top hood	Top hood without fan	Outlet grill	Fan with filter	Spare filter
Catalogue number	08478 08678	NSYCVF575M230MB	NSYCAC228RMB	NSYCAG291LPF	NSYCVF850M230PF	NSYCAF228R
Characteristics	A roof with a cut-out ensures natural ventilation of the equipment. It can also be equipped with two fans.	Fan characteristics <ul style="list-style-type: none"> Power: 85 W Input voltage: 230 V Throughput via outlet grill : <ul style="list-style-type: none"> with 1 outlet grill: 350 m³/hr Free with filter: 575 m³/hr Noise level: 64 dB. Top hood characteristics <ul style="list-style-type: none"> Material: steel Finishing parts: painted with epoxy-polyester resin, textured RAL 7035 grey IP54 Fixing to the top by means of caged nuts and special screws 	<ul style="list-style-type: none"> Material: steel Finishing parts: painted with epoxy-polyester resin, textured RAL 7035 grey IP54 Fixing to the top by means of caged nuts and special screws 	<ul style="list-style-type: none"> Material: Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0 RAL 7035 grey IP54 	<ul style="list-style-type: none"> Power: 150/195 W Input voltage: 207 V... 244 V (230 V) Throughput via outlet grill: <ul style="list-style-type: none"> with 1 outlet grill: 718 (50 Hz) 568 (60 Hz) Free with filter: 838 (50 Hz) 803 (60 Hz) Noise level: 76/75 dB 	For outlet grill or filter IP54, cut-out 228 x 228 mm

Configuration	200 kvar	500 kvar
Door		
Catalogue number	03970 + 01110	03970 + 01110
Designation	W650 door IP30 with cut-out + W150 wicket door	W650 door IP30 with cut-out + W150 wicket door
For front		
Catalogue number	NSYCVF850M230PF	NSYCAG291LPF
Designation	Fan with filter	Outlet grill
For rear		
Catalogue number	08748	08749 + NSYCAG291LPF
Designation	W800 Rear panel IP55	W800 Rear panel IP55 cut-out + outlet grill
Roof		
Catalogue number	08478 or 08678	08478 or 08678
Designation	Roof with cut-out	Roof with cut-out
On roof		
Catalogue number	NSYCAC228RMB x 2	NSYCVF575M230MB x 2
Designation	2 top hood without fan IP54	2 fans + top hood IP54
Mounting plate		
Catalogue number	03979	03979
Designation	Mounting plate	Mounting plate

Note: for further details, see page B-63.

Others

Mounting	On a modular rail					
						
Devices	Contactor	Circuit breaker			Circuit breaker + contactor	TeSys
	Series D and K ≤ 40 A contactors	GV2RT- GV2ME- GV2LE	GV2L- GV2P	GV3	GV2 + Series D and K ≤ 40 A contactors	TeSys modèle U
Number of vertical modules	3	3	3	5	5	5 4 ⁽¹⁾
Useful length of rail (mm)	432	432			432	432
Modular rail (adjustable)	03402	03401 ⁽²⁾	03402	03402	03402	03402
Front plates	plain	-			-	03804 [4]
[No. of vertical mod.]	transparent	-			03342 [4]	ou 03342 [4]
	with cut-out	03203 [3]	03203 [3]	03205 [5]	-	03205 [5]
	downstream	-			03801 [1]	-
Characteristics	- Width of devices without lateral auxiliaries: 45 mm.					

Mounting	On a modular rail				On a base plate	
						
Devices	Soft starters ATS01				LV/LV transformer	
	ATS01N103/106FT	ATS01N109/112FT ATS01N206 to 212	ATS01N222 to 232	ATS01N230LY ATS01N244LY ATS01N244Q	ATS01N272LY ATS01N285LY ATS01N272Q ATS01N285Q	ABL6-TS/TD up to 2500 VA ABL6-RT up to 960 W ABL6-RF up to 480 W
Number of vertical modules	4	5	6	5	6	4
Useful length of rail (mm)	432	432	432	432	-	-
Modular rail (adjustable)	03402	03402	03402	03402	-	-
Slotted mounting plates	-	-	-	-	03572	03571
Front plate	plain	03805 [5]		03806 [6]	03805 [5]	03806 [6]
[No. of vertical mod.]	03804 [4]	03805 [5]		03806 [6]	03805 [5]	03806 [6]
Characteristics	Width of devices (mm)					
	22.5	45	45	180	180	-

(1) Version without communication module, auxiliary contact and reversing module.

(2) Non-adjustable.

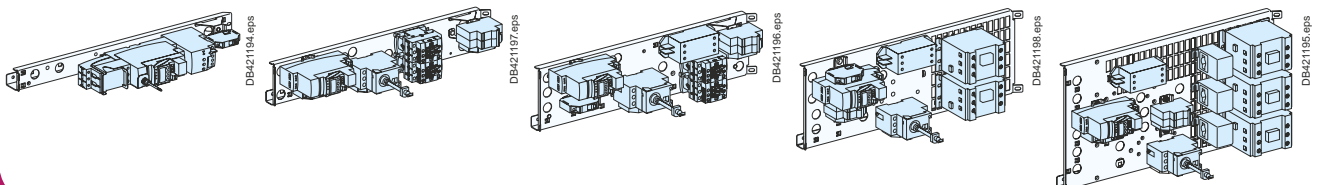


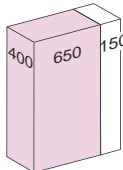
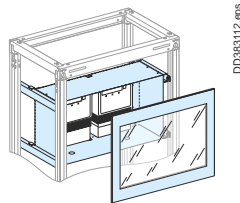
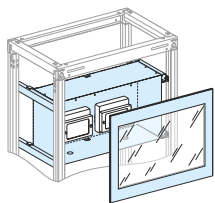
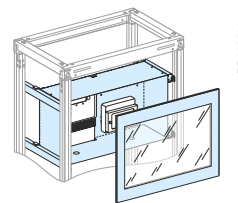
Dedicated mounting plate for Motor Control functional units.

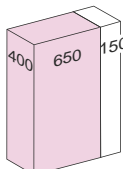
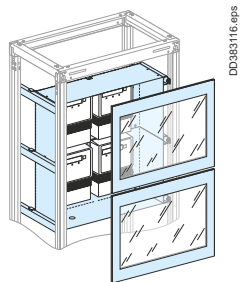
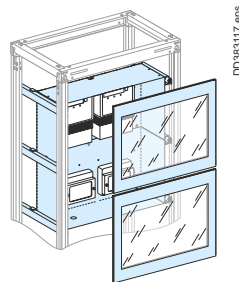
5 commercial references from 1 to 6 modules mounting plates are installed in 650 mm wide cubicle.

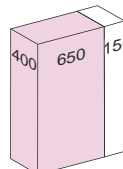
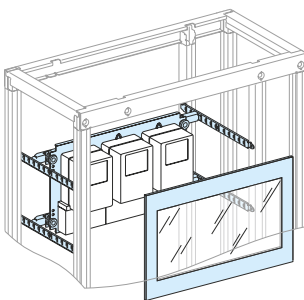
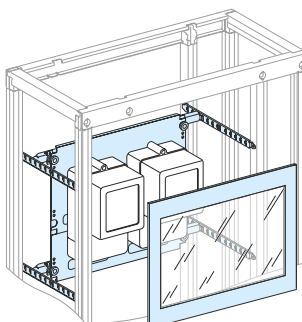
- Easy installation
- Switchboard upgradeability
- Mounting plate optimal stacking density
- Functional units reliability.

See *Prisma MCC catalogue DESW049EN*.



Mounting		With 1 mounting plate		
				
Devices		Meter and connection block		
		Meter 3 Ph + N	Connection block	Meter + connection block
Number of devices per row		2	2	1 + 1
Number of vertical modules		6	6	6
Mounting plates		03508	03508	03508
Front plates	transparent	03343 [6]	03343 [6]	03343 [6]
[No. of vertical mod.]	or plain	03806 [6]	03806 [6]	03806 [6]

Mounting		With 2 mounting plates	
			
Devices		Meter and connection block	
		Meter 3 Ph + N	Meter + connection block
Number of devices per row		4	2 + 2
Number of vertical modules		12	12
Mounting plates		2 x 03508	2 x 03508
Front plates	transparent	2 x 03343 [6]	2 x 03343 [6]
[No. of vertical mod.]	or plain	2 x 03806 [6]	2 x 03806 [6]

Mounting		Behind front plate	
			
Devices		Meter and connection block	
		Single-phase (Ph + N)	3-phase (3 Ph + N)
Number of devices per row		3	2
Number of vertical modules		6	9
Mounting plates		03157	03152
Front plates	transparent	03343 [6]	03344 [9]
[No. of vertical mod.]	or plain	03806 [6]	03807 [9]
Insulating plate		03154	03154
Adapter		03595	03595
Accessories		M5 spacers for mounting plate > page A-77	

Note: meters can be installed at different levels on the functional uprights of frameworks.

Others

★ Presentation

PowerLogic™ Meters

Schneider Electric provides these tools via the world's most advanced energy intelligence technology: PowerLogic. The PowerLogic range of meters help manage all energy assets, every second of the day.

PowerLogic PM5000 series



The ideal fit for cost management applications, the PowerLogic™ PM5000 power meter provides :

- > Sub-billing/tenant metering
- > Equipment sub-billing
- > Energy cost allocation
- > Track real-time power conditions
- > Monitor control functions
- > Provide basic power quality values
- > Monitor equipment and network status.

Acti 9 iEM3000 series



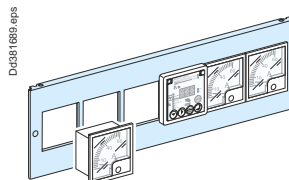
The Acti 9 iEM3000 energy meter series offers a cost-attractive, competitive range of DIN rail-mounted energy meters ideal for :

- > Bill checking to verify that you are only charged for the energy you use
- > Sub billing individual tenants for their energy consumption, including WAGES
- > Aggregation of energy consumption, including WAGES, and allocating costs per area, per usage, per shift, or per time within the same facility
- > Basic metering of electrical parameters to better understand the behavior of your electrical distribution system.

Combined with communication systems, like Smart Link, the Acti 9 iEM3000 series makes it easy to integrate electrical distribution measurements into facility management systems. It's the right energy meter at the right price for the right job.

○ Installation in a switchboard

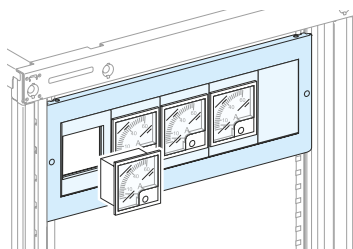
On a metal front plate with cut-outs,
H = 150 mm (3 modules)



- > Devices are attached directly to the metal front plate.
- > Blanking plates are available to blank off any unused locations.
- > Economical solution.

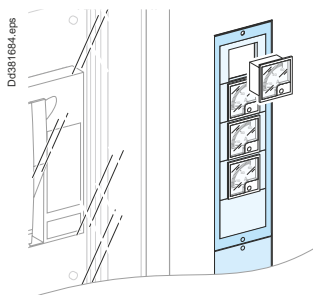
①

- > In the device zone of enclosures and cubicles, like a front plate



②

- > On a door with cut-outs in a 300 or 400 mm wide cubicle
- > On a inclined visor



The degree of protection for installed devices is IP30.




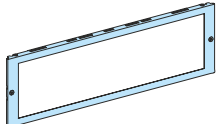



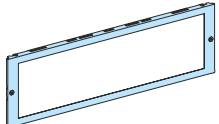



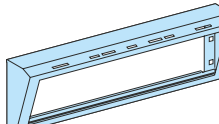



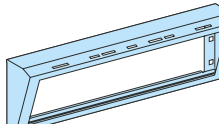



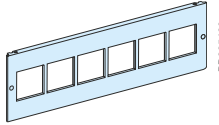


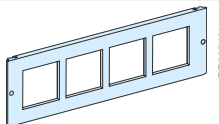


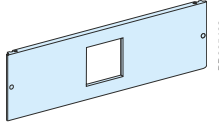



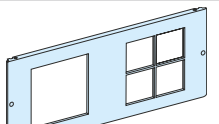


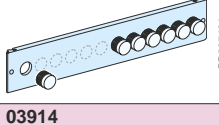



Note: to maintain the IP55 degree of protection, the measurement devices must be installed behind a transparent door. If they are installed on a plain door, use the corresponding mounting plates.

Possible installation

Catalogue number	03904	03928	03910	03911	03913	03912	03914
CSP (08566)	■	■	■	■	■	■	■
L300/L400 with cut-out (08593, 08594)	■	■	■	■	■	-	-

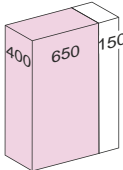
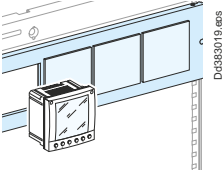
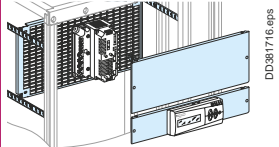
Note: device mounting on door: earthing braid (cat. no. 08910) or earthing wire (cat. no. 08911) mandatory.

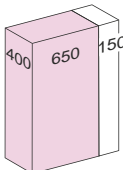
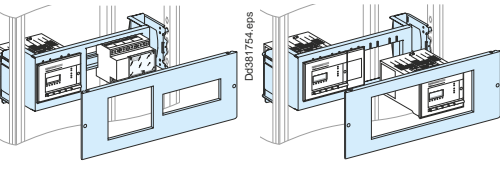
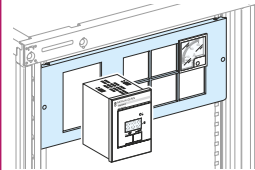

Others

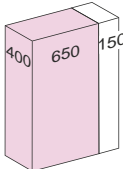
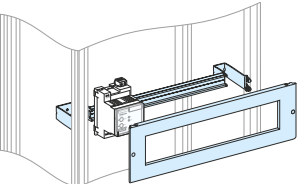
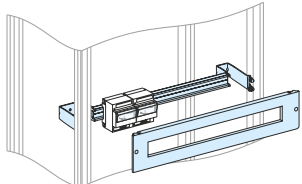
Number and type of devices per row	Metal front plate with cut-out	No. of vertical mod.	Plastic mounting plates with cut-out	Blanking plate or devices support
L650 Mounting on an interface with plastic mounting plates				
5 x  Vigirex and others devices 72 x 72	 DD385459.eps	3	 DD385465.eps	 DD385466.eps To blank-off or install: - 1 to 4 ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x  Power Meter and others devices 96 x 96	 DD385459.eps	3	 DD385467.eps	 DD385468.eps To blank-off or install: - 1 to 4 ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
L650 Mounting on an inclined visor by 30° with plastic mounting plates				
5 x  Vigirex and others devices 72 x 72	 DD385459.eps	3	 DD385465.eps	 DD385466.eps To blank-off or install: - 1 to 4 ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x  Power Meter and others devices 96 x 96	 DD385459.eps	3	 DD385467.eps	 DD385468.eps To blank-off or install: - 1 to 4 ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
L650 Direct mounting on a metal front plate with cut-outs				
72 x 72 device				
6 x  Vigirex and others devices 72 x 72	 DD385460.eps	3	Direct mounting	 DD385469.eps To blank-off or install: - 1 or 2 ø 22 mm buttons - 1 device, 45 x 45
96 x 96 device				
4 x  Power Meter and others devices 96 x 96	 DD385461.eps	3	Direct mounting	 DD385470.eps To blank-off or install: - 1 or 2 ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
1 x  Power Meter and others devices 96 x 96	 DD385462.eps	3	Direct mounting	 DD385470.eps To blank-off or install: - 1 or 2 ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
144 x 144 device + 72 x 72 devices				
1 x  144 x 144 device + 4 x  devices 72 x 72	 DD385463.eps	4	Direct mounting	 DD385469.eps To blank-off or install: - 1 or 2 ø 22 mm buttons - 1 device, 45 x 45
L650 Pushbuttons and lamps Ø 22 mm				
12 x  Ø 22 mm	 DD385464.eps	2	Direct mounting	
L400 Front plate				
1 x  Power Meter and others devices 96 x 96	 DD385660.eps	3	Direct mounting	 DD385470.eps To blank-off or install: - 1 or 2 ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device

(1) The visor (cat. no. 03928) can be installed on a plain door with cut-out.

Others

Mounting	Powerlogic system					
						
Devices	FDM121	FDM128 ⁽¹⁾	PM3000 IEM3000	PM5100/5300/5500	PM5563RD	CM4000
Number of vertical mod.	3	4	4	3	3	6
Mounting plates or DIN rail	-	-	03402	-	03402	03572
Front plates	plain	03804 [4]	03342 [4]	-	-	03804 [4]
	with cut-out	-	-	03913 [3]	03913 [3]	03918 [2]
Slotted mounting plates	-	-	-	-	-	-
Characteristics	Metal front plate with cut-out 96 x 96					Installation in the device compartment

Mounting	Vigilohm system			Vigilohm		
						
Devices	IM400 or XM300C with 3 XD301 or with 2 XD312 or with XD301 + XD312	XML308/316 or XM300C with two interfaces XLI300 or XTU300 or XD308C	XML308/316 or XM300C with XL308 or with XL316	IM10 / IM10H IM20 / IM20H HV-IM20 / HV-IM400	IM10 / IM10H IM20H / IM20H HV-IM20 / HV-IM400	IM9, IM9-OL
Number of vertical mod.	6	4	4	4	3	3
Modular rail	-	-	-	03401	-	03401
Mounting plates	03930	03931	03931	-	-	-
Front plates with cut-outs	03932	03933	03933	03204	03911	03203
Characteristics	Installation in the device compartment					

Mounting	Vigirex	Acti 9	
			
Devices	RH10/RH21/RH99 relays ⁽³⁾ RH197M relays ⁽³⁾	Lamps, pushbuttons	Ammeter, voltmeter
Number of vertical mod.	3	2	3
Modular rail	03401	03401	03401
Front plates with cut-outs	03203	03202	03203
Characteristics	Installation in the device compartment		

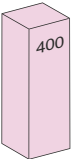
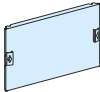

(1) Possible to cut the door by drilling only two 22 mm diameter holes.

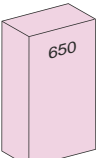
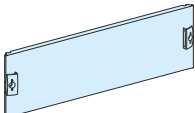
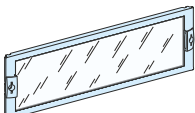
(2) Front plate for installation in width 400 cubicle on 08564.

(3) For 72 x 72 mm cases, see page A-73.

Note: the PM5500 (catalogue number METSEPM5563) is mounted on a DIN rail.

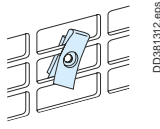
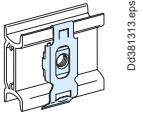
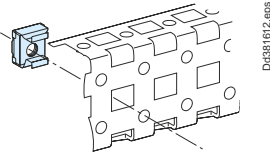
Others

Reserve space							
	 DB417928.eps						
	Plain front plate W = 250 mm						
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]
Catalogue number	03811	03812	03813	03814	03815	03816	03817
	 DB417929.eps						
	Transparent front plate W = 250 mm						
[No. of vertical mod.]	-	-	-	[4]	-	[6]	[9]
Catalogue number	-	-	-	03352	-	03353	03354

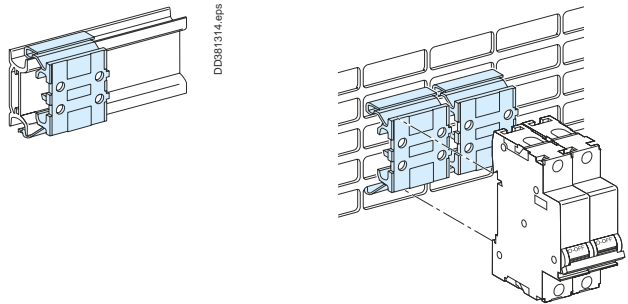
Reserve space								
	 DB417926.eps							
	Plain front plate W = 500 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[12]
Catalogue number	03801	03802	03803	03804	03805	03806	03807	03808
	 DB417927.eps							
	Transparent front plate W = 500 mm							
[No. of vertical mod.]	-	-	-	[4]	-	[6]	[9]	[12]
Catalogue number	-	-	-	03342	-	03343	03344	03345

Others

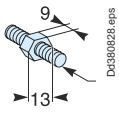
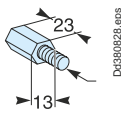
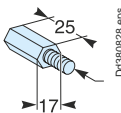
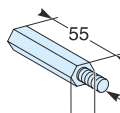
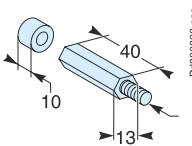
Clip-nuts

Mounting	For slotted mounting plates	For modular rails	For lateral and longitudinal cross-members
	 DD381312.eps	 DD381313.eps	 DD381612.eps
M4	03180	03164	-
M5	03181	03165	-
M6	03182	03166	03194
Characteristics	Set of 20 Mounting of various devices	Set of 20 Mounting of various devices	Set of 20 Mounting in cubicles

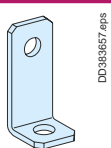
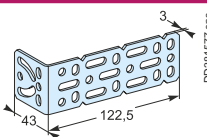
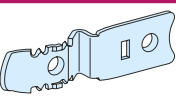
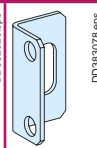
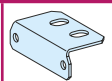
Pratic raiser

Raiser	
	 DD381314.eps DD381576.eps
Catalogue number	04224
Characteristics	Set of 5 Height 10 mm, wide 27 mm Color: RAL 9001, insulating material

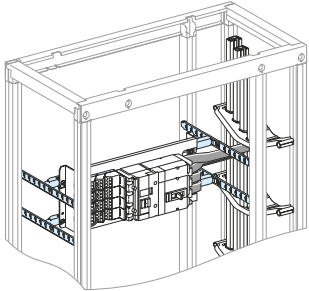
Hexagonal spacers

Hexagonal spacers					
	 DD380828.eps	 DD380828.eps	 DD380828.eps	 DD380828.eps	 DD380828.eps
M5	03185	03186	-	03187	-
M6	03195	03196	03198	03197	-
M8	-	-	-	-	03199
Characteristics	Height: 9 mm Set of 4	Height: 23 mm Set of 4	Height: 25 mm Set of 4	Height: 55 mm Set of 4	Height: 40 + 10 mm Set of 4

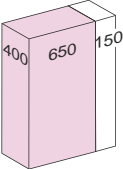
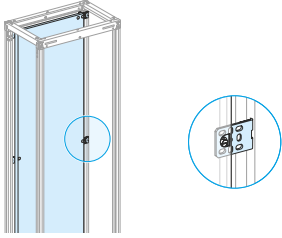
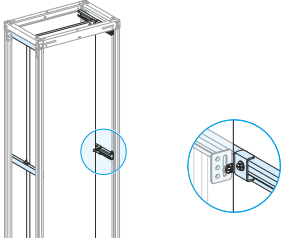
Universal angle brackets

Universal angle brackets					
	 DD383657.eps	 DD381577.eps	 DD382920.eps	 DD383076.eps	 DD385631.eps
Catalogue number	03580	03581	03582	03583	04667
Characteristics	Set of 4 + vis	Set of 2	6 universal inserts	Set of 6	Set of 2

Prisma G adapter

	W = 500	W = 250
		
Catalogue number	03595	03596
Characteristics	For installation in a device compartment W = 650 mm	For installation in a device compartment W = 400 mm
	Kit with four lateral and two longitudinal cross-members that can be depth adjusted. Installation of components, notably the functional mounting plates, the Linergy BW insulated busbars and the 400 A rear Linergy BS busbars.	

Mounting on a plain backplate

Mounting	Plain backplate	Slide rails + angle brackets	
			
Catalogue number	03570	03569	03593
Characteristics	36 modules 510 mm wide for installation in a device compartment W = 650 mm or W = 800 mm (650 + 150)	36 modules 660 mm wide for installation for a cubicle W = 800 mm	Set of 2 for the installation and depth adjustment

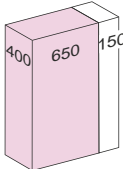
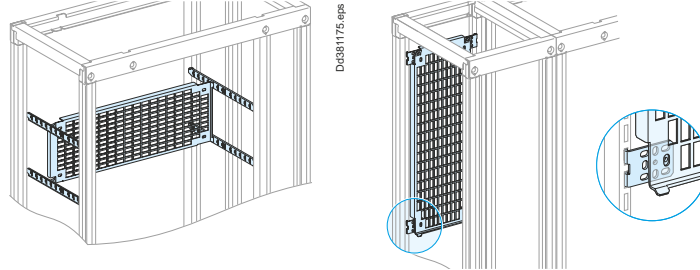
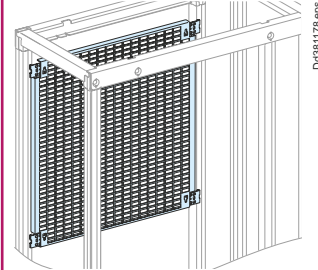
Note: the adapter 03595 can be used for all mounting plates, except 03030.

The Linergy BW busbars can be positioned to the left, middle or right of the modular row.

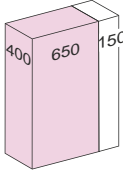
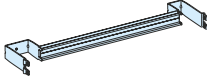

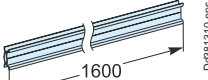
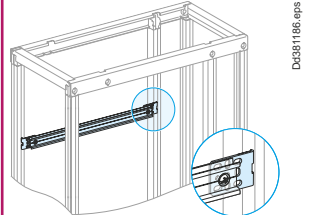
Depth adjustable, the busbars can be supplied by a Compact INS switch-disconnector or a fixed/withdrawable Compact NSX circuit breaker, whatever the type of operating system (toggle, rotary handle, motor mechanism).

For Linergy BW busbars, order two adapters (03595 x 2).

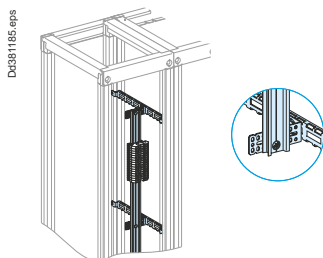
Mounting on a slotted plate

Mounting	Slotted mounting plates + lateral cross-members		Slotted mounting plate without lateral cross-members
			
Catalogue number	03571	03572	03574
Number of vertical modules	4	6	12
Height (mm)	200	300	600
2 universal angle brackets	-	2 x 03581	-
Characteristics	Installation <ul style="list-style-type: none"> ■ either in the device zone on the four lateral cross-members (depth adjustment is possible) ■ or vertically at the rear of a cable compartment, W = 300 mm (03571) or W = 400 mm (03572). 		Galvanised, slotted metal mounting plate Supplied with four angle brackets, they connect directly to the rear of a framework, W = 650 mm or 800 mm (650 + 150 mm) The mounting plate can also be installed using two sets of two slide rails (03593 x 2) for depth adjustment.

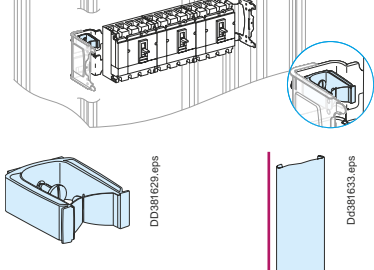
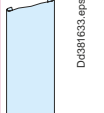
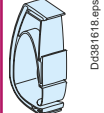
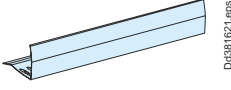
Mounting on a modular rail

Mounting	Modular rails			Modular rail W = 650 mm
				
Catalogue number	03401	03402	04226 (1)	03590
Characteristics	Useful length: 432 mm	Useful length: 432 mm Modular rail (adjustable)	Set of 2 rails, useful length: 1600 mm with 4 holes, ø 6.4 mm, 450 mm between centres	W = 650 mm Supplied with two angle brackets for mounting on the framework

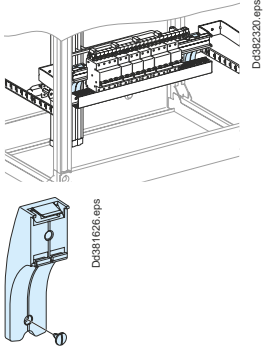
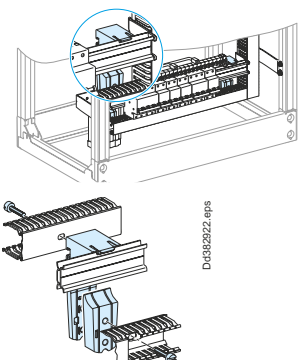
(1) Example of a Linergy busbars installed in a busbar compartment, on a modular rail cat. no. 04226 + 03581 + 08794: see page B-48.



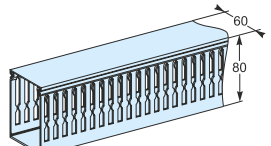
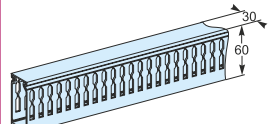
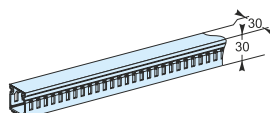
Straps and covers

Type	Vertical cable straps	Covers for vertical cable straps	Horizontal cable straps	Covers for horizontal cable straps
				
Catalogue number	04262	04263	04239	04243
Characteristics	Set of 12	Set of 2 x 1 m	Set of 12 Horizontal cable straps have the same capacity as 60 x 30 mm trunking.	Set of 4 covers of 430 mm

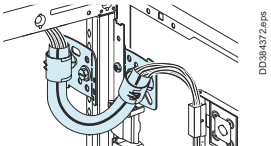
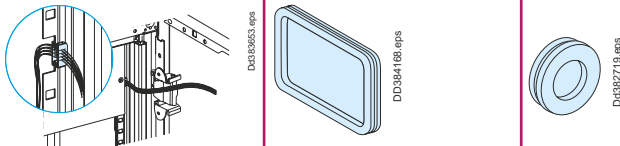
Trunking supports

Type	Horizontal trunking supports	Adaptable support for horizontal trunking
		
Catalogue number	04255	04256
Characteristics	Set of 12	Set of 10 Aligns the cover of a horizontal trunking section (H = 60 or 80 mm) with that of a vertical trunking section (H = 80 mm) Note: not designed for use with Pack enclosures.

Trunkings

Type	Vertical trunkings 80 x 60 mm	Horizontal trunkings 60 x 30 mm	Cable trunkings for doors 30 x 30 mm
			
Catalogue number	04267	04257	04233
Characteristics	Set of 18 L = 2000 mm	Set of 4 L = 450 mm Supplied with supports	Set of 30 adhesive trunkings 30 x 30 mm L = 2000

Cable trunkings for doors, grommets

Type	Flexible trunkings for wiring to door	Grommets
		
Catalogue number	04235	04234
Characteristics	W = 500 mm, inner \varnothing = 19 mm	Set of 10. For wiring through front.
		01215
		5 square grommets 70 x 40.
		08748
		50 grommets \varnothing 22 mm.

Connection accessories

Cable-tie supports, lateral and longitudinal cross-members

Others

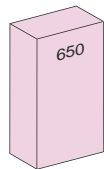
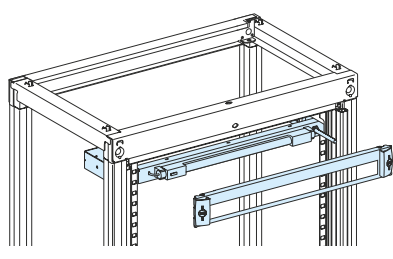
Mounting	Longitudinal cable-tie supports				Lateral cable-tie supports	
Catalogue number	08773	08774	08776	08778	08794	08796
Characteristics	W = 300 mm	W = 400 mm	W = 650 mm	W = 800 mm	D = 400 mm	D = 200 mm
	Set of 4, supplied with the necessary hardware for connection to the framework. Cable-tie supports are used to correctly position the cables in the connection compartment.				For frameworks that are 400 mm deep, assign a 400 mm deep support to a 200 mm deep support.	

Mounting	C-shaped cable-tie supports
Catalogue number	08783
Characteristics	<p>C-shaped 1600 mm long support, supplied with hardware for mounting on universal angle brackets and modular rails, that can be cut to length as needed.</p> <p>Can be secured to:</p> <ul style="list-style-type: none"> ■ universal angle bracket 03581 (for the longitudinal support) ■ universal angle bracket 03582 (for the lateral support) ■ modular rail 03593 (for depth adjustment).

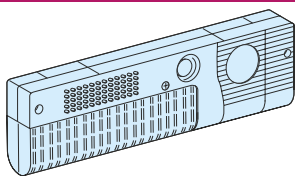
Mounting	Lateral cross-members	Longitudinal cross-members
Catalogue number	03584	03586
Characteristics	Set of 2 W = 400 mm: for frameworks that are 400 mm deep	Set of 2 W = 200 mm: can be added to the 400 mm crossmembers for frameworks that are 600 mm deep. They can also be installed separately.
		Set of 2 W = 650 mm They are connected directly to the framework (W = 650 mm). They can also be mounted on the lateral cross-members.
	Metallics, they offer numerous positioning holes for easier installation.	

Others

Fixed lighting

Fixed lighting	
	
<p>Catalogue number</p>	<p>08964</p>
<p>Presentation</p>	<p>This system is generally used to illuminate the front of a switchboard.</p> <ul style="list-style-type: none"> ■ The kit is made up of: <ul style="list-style-type: none"> <input type="checkbox"/> a base <input type="checkbox"/> a neon tube <input type="checkbox"/> a front plate with cut-out (1 module) <input type="checkbox"/> a door contact.
<p>Characteristics</p>	<ul style="list-style-type: none"> ■ Supply voltage: 220/240 V ■ Power rating: 8 W ■ Height: 1 vertical module (50 mm)

Switchboard portable lamp

Switchboard portable lamp	
	
<p>Catalogue number</p>	<p>08965</p>
<p>Presentation</p>	<ul style="list-style-type: none"> ■ Lamp with a magnetic base for installation behind a door or directly on the cubicle framework. ■ Supplied without a power cord. ■ H x W x D: 90 x 345 x 42
<p>Characteristics</p>	<ul style="list-style-type: none"> ■ Supply voltage: 220/240 V ■ Power rating: 11 W ■ Lamp: picoline OSRAM 8W (supplied) ■ Class 2 ■ IP20



Lineage distribution

Main distribution

Busbars presentation Linergy LGYE 630 A to 4000 A	
Horizontal/vertical	B-8
Horizontal and lateral busbars	B-9
Linergy LGY busbars presentation	
Lateral busbars	B-10
Linergy BS busbars presentation	
Horizontal and lateral busbars	B-11

Power busbars

Linergy LGYE	
Horizontal profiles up to 4000 A	B-12
Linergy BS	
Horizontal busbars up to 4000 A	B-13
Linergy LGY	
Lateral profiles up to 3200 A	B-14
Linergy LGYE	
Lateral profiles up to 4000 A	B-15
Linergy BS	
Lateral flat busbars up to 4000 A	B-16
Linergy LGY	
Rear profiles up to 1600 A	B-17
Linergy BS	
Rear busbars up to 1600 A	B-18
Linergy Busbars	
Accessories	B-19
Linergy BW	
Insulated busbars up to 630 A	B-22
Linergy BS	
Rear busbars up to 400 A	B-24
Multi-stage busbars up to 630 A	B-25
Multi-stage distribution block up to 630 A	B-26
Incomer accessories up to 630 A	B-27

Distribution blocks

Linergy DP	
Quick distribution blocks	B-28

Device feeders

Linergy FC	
Feeders for Compact NSX and INS	B-30
Insulated flexible bars	B-32

Distribution blocks

Linergy DX	
Quick distribution blocks	B-34

Device feeders

Linergy FM	
Quick device feeders	B-36

Distribution blocks

Linergy DS	
Screw distribution blocks	B-38

Device feeders

Linergy FH	
Comb busbar for 27 mm pitch for C120, NG125	B-40
Comb busbar for 18 mm pitch for Acti 9	B-41
Comb busbar for 9 mm pitch for Acti 9, C60	B-43
Horizontal comb busbar for 18 mm pitch for Domae	B-45
Horizontal biconnect comb busbar for 18 mm pitch	B-46

Terminal blocks and lines

Linergy TA	
Auxiliary connections	B-47
Linergy TB	
Earth bars	B-48
PE conductor	B-49

Secondary distribution

Linergy TB terminal block support	B-50
Linergy TR	
Terminal blocks	B-52

Main distribution

Form 1 partitioning	B-55
Covering the supply terminals on the incoming device	B-56
Form 2 partitioning	B-57
Form 3 partitioning	B-59
Form 4 partitioning	B-61
Other partitions	B-63

Linergy LGYE-LGY

Putting the latest
technological innovation
in your hands

Linery LGYE-LGY

a breakthrough in busbar systems

**Safe, reliable,
flexible, and
flexible with
the highest
level of
performance**

Schneider Electric's Prisma PTM is one of the leading switchboard enclosure systems on the market. Designed for use with Prisma P, the Linery LGYE-LGY busbar system now includes horizontal busbars, for greater electrical switchboard enclosure performance, reliability, and costeffectiveness.

Manufactured using a revolutionary process, patented Linery busbars are unique on the market, taking your electrical switchboard installations a giant leap into the future.



Discover how
Linery LGYE-LGY
can place the next
generation of low-voltage
switchboards in your
hands.



Innovative technology

from an energy expert you can trust

Patented Linergy LGYE-LGY is backed by Schneider Electric's decades of expertise in electrical distribution systems and is certified IEC 61439-2 compliant by ASEFA.

Linergy unique profile was designed with the ratings you need, a commitment to performance backed by regular testing up to 4000 A.

Linergy LGYE-LGY busbars performances are identical or better than traditional all Linergy BS busbars.

Heat is dissipated by conduction and radiation for performance only a market leader like Prisma P can bring you.

Unlike tin-plated aluminum busbars, rugged Linergy LGYE-LGY busbars are resistant to scratching during assembly to ensure optimal connection quality and reliability.



Cold Spray, unique on the busbar market

Patented Linergy LGYE-LGY uses a supersonic coating process for a robust copper contact surface.

A revolutionary design for greater efficiency

The Linergy line now includes horizontal busbars, helping you achieve better electrical switchboard performance while optimizing busbar layout and facilitating assembly.

Schneider Electric™ has drawn upon 30 years of expertise in electrical distribution systems and a decade of hands-on experience with the proven and reliable Linergy line of products. It brings you a revolutionary design featuring a high-quality copper contact surface that delivers even better results than traditional Linergy BS-to-LinerGY BS connections.

LinerGY LGEY-LGY busbars offer a number of benefits to help you enhance performance and boost your competitiveness.

Lightweight

LinerGY is half the weight of equivalent-rated Linergy BS bars for more fuel-efficient transport, easier handling, and smoother installation.

Higher-capacity

A single LinerGY LGEY bar can withstand ratings up to 4000 A. It would take two or three Linergy BS bars per pole to achieve similar ratings.

Robust and flexible

LinerGY LGEY bars are extruded for a unique profile that includes both closed and ribbed sections, improving rigidity, thermal dissipation, and resistance to short circuits, with a shortcircuit withstand capacity (Icw) of 100 kA/1s.

Attractive

The revolutionary copper contact strips, anodized aluminum surface, and unique shapes give a modern appearance and a soft touch.

IEC standards-compliant

The latest standards were factored in from the early design stages to ensure that temperatures are kept below the IEC61439-2 standard requirements, for optimal performance regardless of the switchboard configuration.

Environmentally-friendly

Instead of increasingly-scarce copper, LinerGY LGEY is made from 70 % recycled raw materials offering the same performance as primary raw materials.

Cost-effective

LinerGY LGEY-LGY helps you achieve cost savings now and provides protection against fluctuating copper prices in the future, plus all the advantages of a raw material that is easy to purchase and store.



Boost Prisma P capacity
from 3200 A
to 4000 A

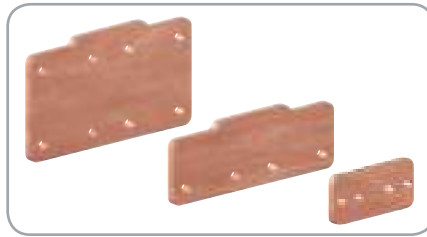
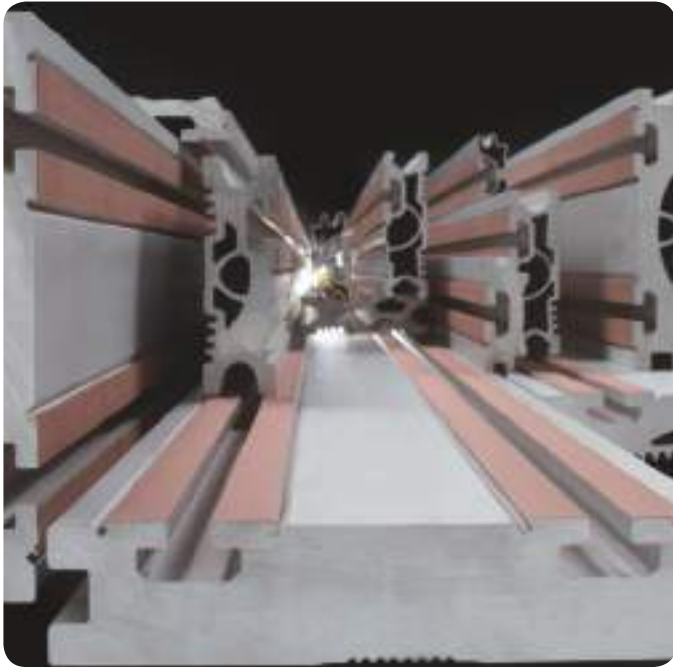
Increase short-circuit
withstand capacity
from 85 kA/1s
to 100 kA/1s

LinerGY LGEY
is 50 %
lighter than
LinerGY BS

Reduce **costs**
and assembly
times over
LinerGY BS busbars

Lineryg accessories are also evolving!

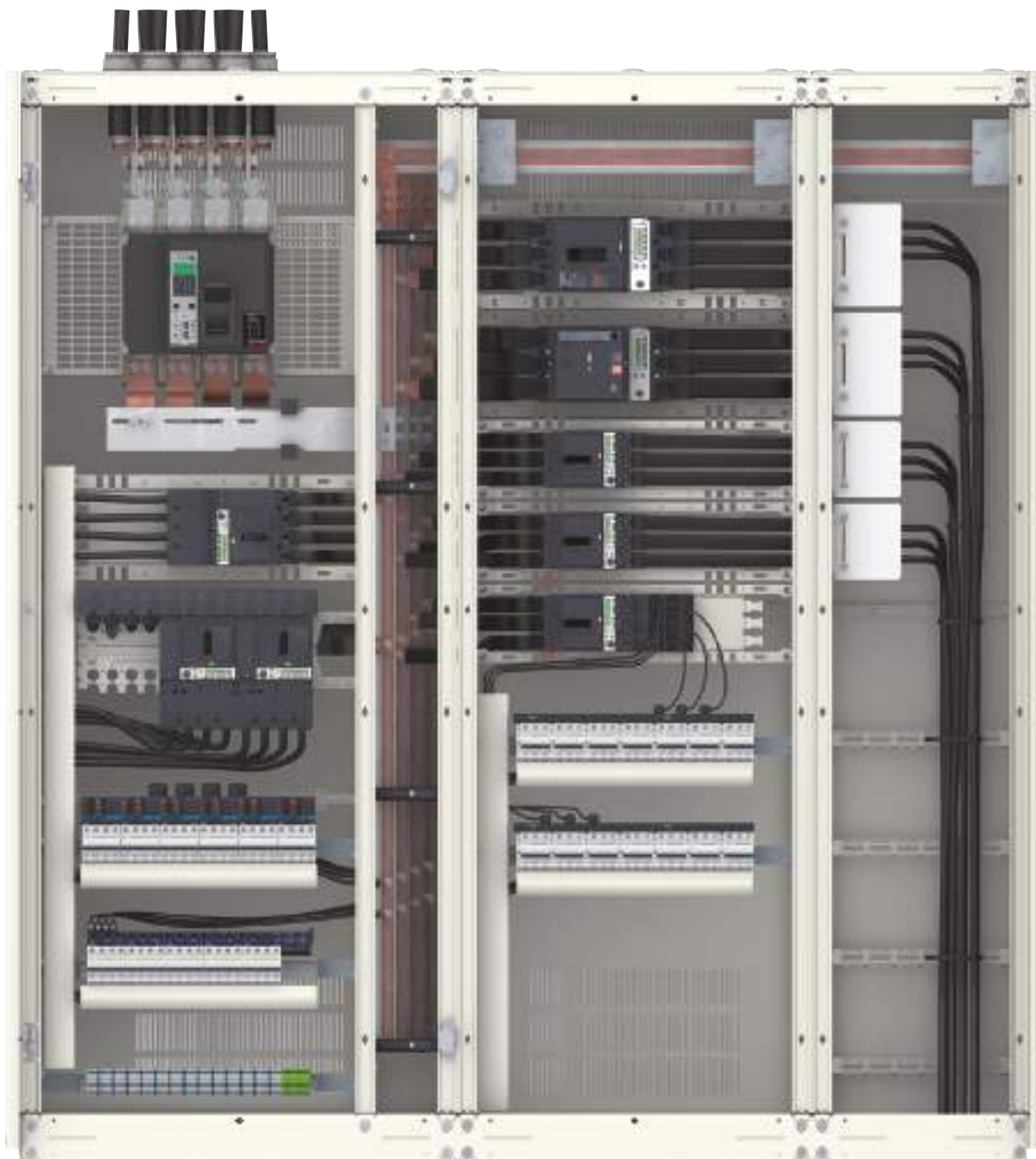
Lineryg LGYE is a full-featured busbar system that includes all the connections, screws, bolts, isolating supports, and other accessories you need for drill-free assembly.



Panel builders, we've thought of everything to make your life easier!

- Lineryg LGYE-LGY busbars are lightweight, making them easy to transport and handle in the workshop.
- With Lineryg LGYE-LGY, you can continue to use the familiar Prisma P busbar supports you already know for Lineryg BS bars. There's no new system to learn.
- Lineryg LGYE-LGY offers single bars for each rating, making handling during installation faster and more convenient.
- Lineryg LGYE-LGY bars are fast and easy to position without drilling, thanks to a sliding bolt and track system.
- Lineryg screws let you add extra outgoing connections without drilling new holes or dismantling previous connections or busbar supports, saving you time and giving you greater flexibility in the event of last-minute changes.
- Lineryg LGYE-LGY busbars offer a unique shape with no sharp edges for safer, smoother handling and installation the bars simply slide right in to the busbar supports.
- Existing Lineryg LGY vertical busbars are easy to connect to Lineryg LGYE with ready-to-install accessories like vertical connectors.
- Lineryg materials are easy to recycle via well-established aluminum recycling services already in use for materials like aluminum cans, coffee capsules, door and window frames, and engine blocks.

Lineryg also offers the most **advanced busbar solutions** while remaining **simple**.



Lineryg LGYE / LGY /BS

Power busbars

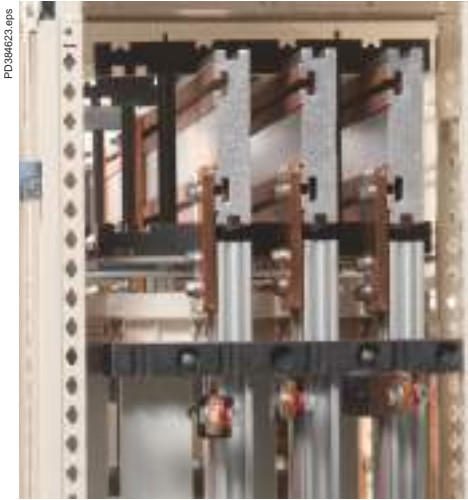
- > Solutions available up to 4 000 A
- > Connection everywhere without drilling (with LGY and LGYE profile)

 [page B-12 to B-19](#)

Busbars presentation

Linergy LGYE 630 A to 4000 A

Horizontal/vertical



Linergy LGYE + Linergy LGY, a comprehensive offering

The Linergy solution, a complete set of horizontal and vertical busbars operational up to 4000 A:

- 630 A to 4000 A
- Icw of 85 kA/1 s for the 630 A to 1600 A configurations
- Icw of 100 kA/1 s for the 2500 A to 4000 A configurations.

More power in a given switchboard volume.

No longer any need to drill, thanks to the Linergy concept, greater accessibility for connecting bars, ties and connecting plates. Winning solution in all the Linergy LGYE options chosen, allows the panelbuilder to:

- achieve substantial time savings (procurement, handling, mounting, accessibility, changes, etc.) thanks to the aluminium material and the busbar design and connection
- supply more efficient, less heavy switchboards without risk of vandalism on Linergy BS.

Complete compatibility of Linergy LGYE with existing 630 to 1600 A Linergy BS vertical busbar.

Replacement of high/low horizontal Linergy BS busbar with Linergy LGYE up to 4000 A.

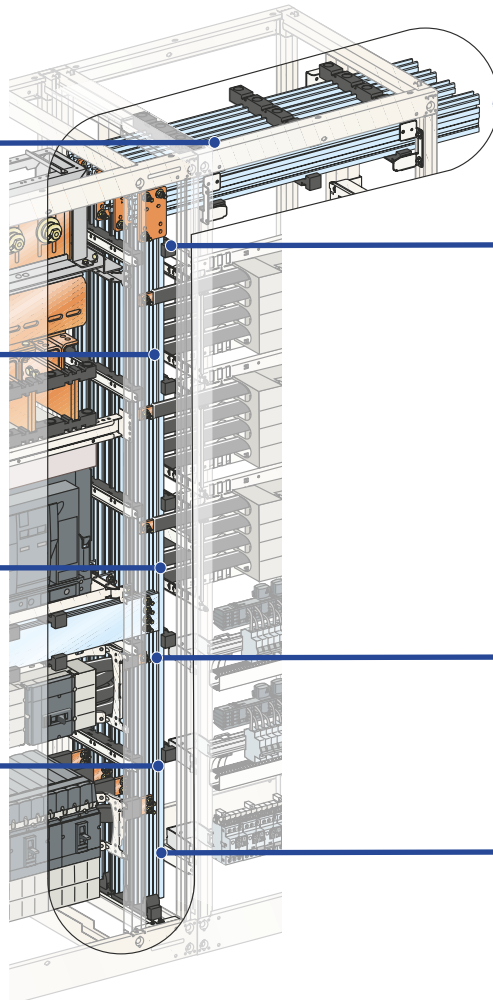
Re-use of the existing 1000 to 1600 A Linergy LGY and double Linergy busbars up to 3200 A or replacement with vertical 2000 to 4000 A Linergy LGYE.

Light
Economical

Simplification
Time saving

Direct connection

Unchanged
fasteners



Mounting
compatibility

Multiple
adaptations

Connection
modularity

Easier access

Busbars presentation

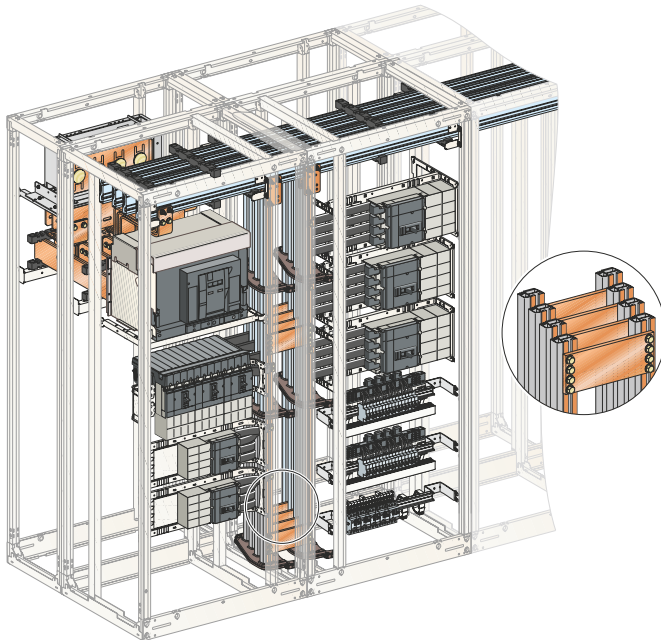
Linergy LGYE 630 A to 4000 A

Horizontal and lateral busbars



Horizontal busbars from 630 to 4000 A

DD394518 EPS



Installation

The Linergy LGYE busbar can be installed either at the top or the bottom of a frame.

> Size for 630 to 2500 A: 150 mm.

> Size for 3200 to 4000 A: 200 mm.

> The mounting technique is the same as that for the Linergy BS busbar, sparing the installer any constraints.



Busbar type

> Horizontal busbar:

- functionalized profiled busbar
L = 2000 mm

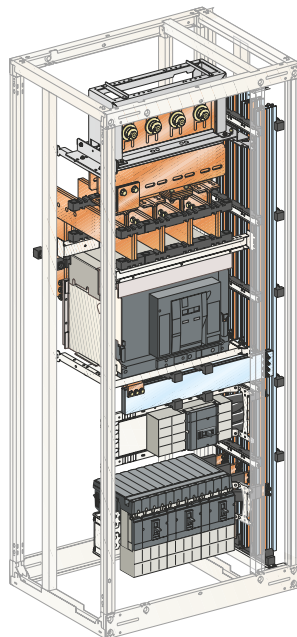
- for 630 to 2500 A busbars, a single strip is incorporated over the entire length

- for 3200 to 4000 A busbars, a double strip is incorporated over the entire length.



Vertical busbars from 630 to 4000 A

DD394555 EPS



Installation

Flexibility for upgrading existing switchboards

It is possible to mount the Linergy LGYE busbar vertically for all ratings:

- 630 to 2500 A, W = 150 mm

- 3200 to 4000 A, W = 300 mm.



Busbar type

> Vertical busbar:

- profiled busbar L = 2000 mm to be re-cut to 1675 mm for connection with horizontal busbar from 630 to 1600 A.

- functionalized profiled busbar L = 1625 mm from 2000 A to 4000 A for connection with horizontal busbar for 2000 A to 4000 A.



Note: This busbar allows some prefabricated connections of Prisma P. Schneider Electric provides drawings for all other connections.

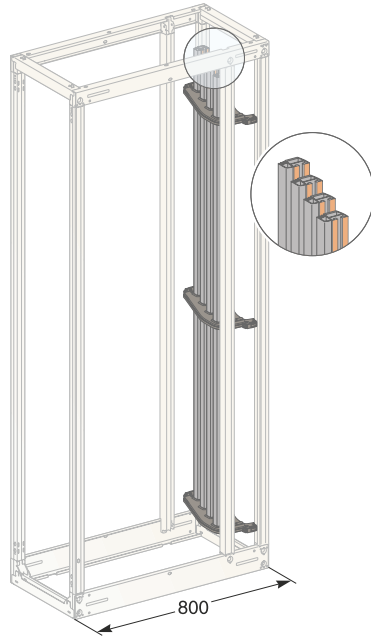
Linergy LGY busbars presentation

Lateral busbars



Linergy LGY busbars from 630 to 1600 A

DD382326.eps



Installation

- > Can be installed independently on either the left or right-hand side of an 800 mm wide framework (650 + 150 mm) for distribution on either side.
- > For an $I_{cw} \leq 40 \text{ kA rms} / 1 \text{ s}$, two supports in the "device" zone are sufficient to maintain the bars. A third support is required as the bottom support for the bars.



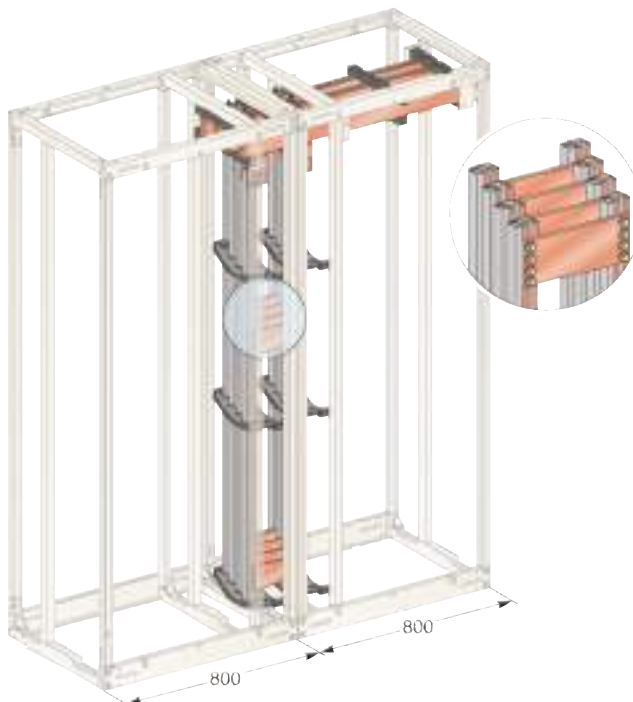
Type of busbar

- > Very rigid profile to improve withstand to electrodynamic forces.
- > Connection points accessible from the front and adjustable from top to bottom.
- > Compatible with all Prisma P prefabricated connections.



Linergy LGY busbars up to 3200 A

DD382327R.eps

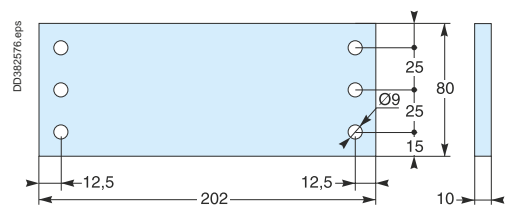


Installation

- Two sets of busbars are installed in parallel in two adjacent frameworks, each 800 mm wide (650+150mm). They must be interconnected by three equipotential links. Generally speaking, these links are provided by:
- > the horizontal busbars
 - > connections in the middle and at the bottom of the vertical busbars.



Equipotential link

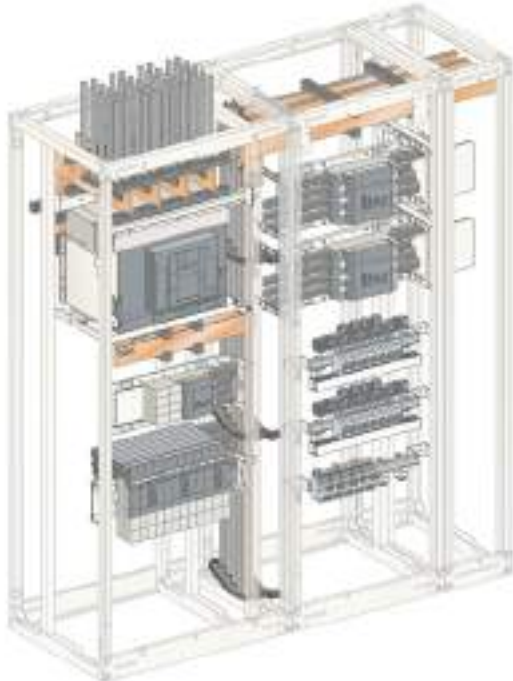


Note: Equipotential link to be made.



Horizontal busbars from 800 to 3200 A

D0065438.eps



Horizontal Linergy BS busbar for switchboards up to 3200 A. Adapts to all Linergy LGY 1600 A profiles and also to the lateral Linergy LGYE busbar.



Installation

Horizontal and lateral busbars up to 3200 A require the same amount of space.

> Horizontal busbars :

- Linergy BS bars without holes
L = 2000 mm, 5 mm thick
- Linergy BS bars without holes
L = 2000 mm, 10 mm thick



Lateral busbars de 800 to 3200 A

D083708.EPS



Lateral Linergy BS busbar for switchboards up to 3200 A. Adapts to all profiles of the horizontal Linergy LGYE busbar.



Installation

> Can be installed independently on either the left or right-hand side of an 800 mm wide framework for distribution on either side.

> Three fixed supports (04661) are mandatory. When more than three supports are required (see the tables for busbar calculations on the following pages), use free supports (04662).

> Busbars are positioned on the bottom support (04663).



Type of busbar

> Linergy BS bars with holes, L = 1675 mm, 5 mm thick (up to 1600A)

> Linergy BS bars with holes, L = 1675 mm, 10 mm thick (up to 2500A)

> Two 10 mm holes every 25 mm along the entire length of the busbars.

> Prisma P prefabricated connections cannot be used with these busbars.

Linergy LGYE

Horizontal profiles up to 4000 A
400 mm deep installation

Linergy LGYE profiles

Installation	Up to 1600 A					Up to 2500 A		Up to 4000 A		
Linergy profiles, 2000 mm length										
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31 IP > 31	630 A 530 A	800 A 680 A	1000 A 850 A	1250 A 1050 A	1600 A 1480 A	2000 A 1650 A	2500 A 2100 A	3200 A 2800 A	4000 A 3620 3350
Number of profiles per phase	1					3		4		
Total number of vertical modules (50 mm)	3					3		4		
Catalogue numbers	04560 04561 04562 04563 04564					04565 04566		04567 04568		

Busbar supports

Fixed support 04664	Free support 04662
Fixed support 04665	Free support 04678

Characteristics Two fixed supports for 650 mm or 650 + 150 mm wide Prisma P frameworks and one fixed support for 300/400 mm wide Prisma P frameworks are mandatory. If more supports are required, use free supports.
Note: in case of 600 mm depth with 115 mm between centers, replace **04664** fixed support by **04665** and **04662** free support by **04678**.

In cubicle	Number of supports	≤ 15	2
W = 650 or W = 650+150 busbar supports	75 mm between centres	≤ 30	2
		≤ 40	-
		≤ 50	-
		≤ 60	2+1
		≤ 65	-
		≤ 75	2+1
		≤ 85	2+1
		≤ 100	-
			2+2
	Catalogue numbers	Fixed support	04664
		Free support	04662
			04664 + 04671 ⁽¹⁾ (hardware)
			04662 + 04671 ⁽¹⁾ (hardware)
			04664 + 04646 ⁽²⁾ (hardware)
			04662 + 04646 ⁽²⁾ (hardware)
In duct	Number of supports	≤ 60	1
W = 300 busbar supports	75 mm between centres	≤ 85	1 + 1
		≤ 100	-
			1 + 1
	Catalogue numbers	Fixed support	04664
		Free support	04662
			04664 + 04671 ⁽¹⁾ (hardware)
			04662 + 04671 ⁽¹⁾ (hardware)
			04664 + 04646 ⁽²⁾ (hardware)
			04662 + 04646 ⁽²⁾ (hardware)
In duct	Number of supports	≤ 50	1
W = 400 busbar supports	75 mm between centres	≤ 85	1 + 1
		≤ 100	-
			1 + 1
	Catalogue numbers	Fixed support	04664
		Free support	04662
			04664 + 04671 ⁽¹⁾ (hardware)
			04662 + 04671 ⁽¹⁾ (hardware)
			04664 + 04646 ⁽²⁾ (hardware)
			04662 + 04646 ⁽²⁾ (hardware)

Joints

	Up to 1600 A					Up to 2500 A		Up to 4000 A	
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
	04620 04623					04624			
Catalogue numbers	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)	
Note	04624 is mandatory in case of jointed 4P Linergy LGYE busbars installations and must be installed only at the junction on side-by-side frameworks combination. When installed at the bottom of cubicles, the busbars must be partitioned.								

(1) **04671**: mounting hardware for bars or profile H = 100 or 120 mm. Containt 2 threaded rods and 4 insulators.

(2) **04646**: mounting hardware for bars or profile H = 150 mm. Containt 2 threaded rods and 2 insulators.

Note: for accessories, see page B-19.

Linergy BS

Horizontal busbars up to 4000 A

400 mm deep installation

Flat bars											
Installation		Up to 1600 A				Up to 4000 A					
Copper without holes, 2000 mm length											
Permissible current for an ambient temperature 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
Size of bars (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of bars per phase		1	1	2	2	1	2	2	2	2	2
Total number of vertical modules (50 mm)		3									4
Catalogue numbers		04536	04538	04536	04538	04548	04545	04546	04548	04550	04552

Busbar supports											
				Fixed support 04664		Free support 04662		Fixed support 04665		Free support 04678	
In cubicle W = 650 or W = 650+150 busbar supports 75 mm between centres	Characteristics	Number of supports depending on l _{cw} (kA rms/1 s)	≤ 15	2							
			≤ 25	2+1	2						
			≤ 30	2+1	2						
			≤ 40	2+1							
			≤ 50	-	2+1	2					
			≤ 60	-	2+1						
			≤ 65	-	2+1						
			≤ 75	-	2+2	2+1					
			≤ 85	-	-	2+1					
	Catalogue numbers	Fixed support	04664		04664			04664 + 04671⁽¹⁾ (hardware)			
		Free support	04662		04662			04662 + 04671⁽¹⁾ (hardware)			
In duct W = 300 busbar supports 75 mm between centres	Number of supports depending on l _{cw} (kA rms/1 s)	≤ 30	1								
		≤ 50	1 + 1		1						
		≤ 85	-								
	Catalogue numbers	Fixed support	04664		04664			04664 + 04671⁽¹⁾ (hardware)			
		Free support	04662		04662			04662 + 04671⁽¹⁾ (hardware)			
In duct W = 400 busbar supports 75 mm between centres	Number of supports depending on l _{cw} (kA rms/1 s)	≤ 25	1								
		≤ 40	1 + 1		1						
		≤ 50	1 + 1								
		≤ 85	-								
	Catalogue numbers	Fixed support	04664		04664			04664 + 04671⁽¹⁾ (hardware)			
		Free support	04662		04662			04662 + 04671⁽¹⁾ (hardware)			

Joints											
Installation		Up to 1600 A				Up to 4000 A					
		1 bar per phase		2 bars per phase		1 bar per phase		2 bars per phase			
Size of bars (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with torque nut											
		04640		04641		04643					
Catalogue numbers (1 joint per phase)		04640	04641	04640	04641	04640	04640	04641	04641	04641	04643
Note		when installed at the bottom of cubicles, the busbars must be partitioned.									

(1) 04671: mounting hardware for bars or profile H = 100 or 120 mm. Containt 2 threaded rods and 4 insulators.

Linery LGY

Lateral profiles up to 3200 A

400 mm deep installation

Linery LGY profiles		Up to 1600 A (simple busbars)					Up to 3200 A (double busbars)		
In duct		W150					2 x W150		
Linery profiles, 1670 mm length									
		04502	04503	04504	04505	04506	04504	04505	04506
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A	1600 A	2 x 1000 A	2 x 1250 A	2 x 1600 A
	IP > 31	680 A	840 A	1040 A	1290 A	1650 A	2000 A	2500 A	3200 A
Number of profiles per phase		1					2		
Catalogue numbers		04502	04503	04504	04505	04506	04504	04505	04506

Busbar supports		Fixed support 04651	
Characteristics		An end stop must be installed on the bottom support: 01109 (set of 12).	
Number of supports depending on I _{cw} (kA rms/1 s)	≤ 25	3	2 x 3
	≤ 30	3	2 x 3
	≤ 40	3	2 x 3
	≤ 50	4	2 x 3
	≤ 60	5	2 x 4
	≤ 65	5	2 x 4
	≤ 75	7	2 x 5
≤ 85	8	2 x 5	
Catalogue numbers	Fixed support	04651	
	Chock	01109	

Equipotential links		Equipotential link 01109	
3 equipments must be installed between the busbars.			
		Connection made with a flat 80 x 10 mm busbar between 2 W150 ducts	

Connections to the horizontal Linery BS busbars		Horizontal busbar connection 04634/04635	
Characteristics		Mounting hardware supplied. Order 1 link per phase	
Cat. no. according to horizontal busbar size	Thickness 5 mm	04634 (1000 A)	04635 (1600 A)
	Thickness W ≤ 80 mm	04636	2 x 04636
	10 mm W 100 mm	04636 + 04642 ⁽²⁾	2 x 04636 + 2 x 04642
	W 120 mm	04638	2 x 04638

Connections to the horizontal Linery LGYE busbars		Vertical busbar connection 04602/04603	
Characteristics		≤ 1600 A Supplied with mounting hardware. Catalogue numbers include 1 connection only: 1 connection per phase.	
Cat. no. according to horizontal busbar size		04602 (vertical connection) 04603 (vertical shifted connection) ⁽¹⁾	

(1) Dedicated connection 04603 for Linery LGYE busbar in 150 mm duct with horizontal jointing
 (2) 04642: mounting hardware for bars > 80 mm. Comprises 2 threaded rods.

Linergy LGYE

Lateral profiles up to 4000 A
400 mm deep installation

Linergy LGYE profiles		Linergy profile, 2000 mm length					Linergy profile, 1625 mm length			
In duct		W150					W150		W300	
Linergy profile										
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31 IP > 31	630 A 530 A	800 A 680 A	1000 A 850 A	1250 A 1050 A	1600 A 1480 A	2000 A 1650 A	2500 A 2100 A	3200 A 2800 A	4000 A 3350 A
Length to cut for side mounting		1675 mm					-		-	
Number of profiles per phase		1					-		-	
Catalogue numbers		04560	04561	04562	04563	04564	04507	04508	04509	04510

Busbar supports		Fixed support 04661		Free support 04662		Bottom support 04666		
Characteristics		Attach directly to the framework. Three fixed supports are required to maintain the busbars. If more than three supports are required, use additional free supports. The bottom support maintains the bars in position. It is not considered a busbar support. Note: in case of 600 mm depth with 115 mm between centers, replace 04661 fixed support by 04668, free support 04662 by 04678 and bottom support 04663 or 04666 by 04673.						
	Number depending on I _{cu} (kA ms/1 s)	≤ 30 ≤ 40 ≤ 50 ≤ 60 ≤ 65 ≤ 75 ≤ 85 ≤ 100	3 - - - - - - -	3+2 3+2 3+2 -	3 3 -	3 -	3 3+2 3+4 3+4 3+6	
In duct W150, W = 300 busbar supports 75 mm between centres	Catalogue numbers	Fixed support	04661			04661 + 04671 ⁽¹⁾		04661 + 04646 ⁽²⁾
		Free support	04662			04662 + 04671 ⁽¹⁾		04662 + 04646 ⁽²⁾

Busbars chocks		Chocks installed on a bottom support 04658		Chocks installed on a bottom support 04659	
Characteristics		The bottom support maintains the sections in position. It is not considered a busbar support.			
In duct W150, W = 300	Catalogue numbers	Bottom support	04663		04666 + 04661
		Chocks	04658		04659

Connections to the horizontal Linergy LGYE busbars		630 to 1600 A		2000 to 2500 A		3200 to 4000 A	
Characteristics		Supplied with mounting hardware. Catalogue numbers include 1 connection per phase.					
Cat. no. according to horizontal busbar size		04602 (straight connection) 04603 (shifted connection)		04604 (short connection) 04605 (long connection)		04607	

(1) 04671: mounting hardware for bars or profile H = 100 or 120 mm. Containt 2 threaded rods and 4 insulators.
 (2) 04646: mounting hardware for bars or profile H = 150 mm. Containt 2 threaded rods and 3 insulators

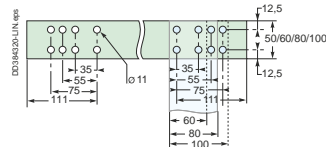
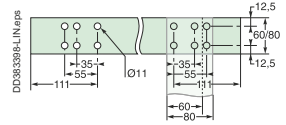
Flat bars															
In duct	Up to 1600 A				Up to 4000 A										
	W150				W150				2 x W150		W300				
Copper with holes, 1675 mm length															
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3200 A	3200 A	3760 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	2820 A	3340 A	
Size of bars (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	80 x 10	100 x 10	120 x 10	
Number of bars per phase		1		2		1		2		2		2		2	
Catalogue numbers		04516	04518	04516	04518	04525	04526	04528	04525	04526	04528	04528	04550⁽¹⁾	04552⁽¹⁾	

Busbar supports														
	Description	Attach directly to the framework. Three fixed supports are required to maintain the busbars. If more than three supports are required, use additional free supports. The bottom support maintains the bars in position. It is not considered a busbar support. Note: In case of 600 mm depth with 115 mm between centers, replace 04661 fixed support by 04668 and 04662 free support by 04678 and 04663 or 04666 bottom support by 04673 .												
	Number of supports depending on l _{cw} (kA rms/1 s)	≤ 15	3		3		3		3		2 x 3		2 x 3	
		≤ 25	3+2		3		3		3		2 x 3		2 x 3	
		≤ 30	3+2		3		3		3		2 x 3		2 x 3	
		≤ 40	3+4		3+2		3+2		3+2		2 x 3		2 x 3	
		≤ 50	-		3+4		3+2		3+2		2 x 3		2 x 3	
		≤ 60	-		3+4		3+4		3+2		2 x 3+2		2 x 3+2	
		≤ 65	-		3+4		3+4		3+2		2 x 3+2		2 x 3+2	
		≤ 75	-		-		3+6		3+4		2 x 3+2		2 x 3+2	
		≤ 85	-		-		-		3+4		2 x 3+2		2 x 3+2	
In duct W150, W = 300 busbar supports 75 mm between centres	Catalogue numbers	Fixed support	04661									2 x 04661	04661 + 04671	
		Free support	04662									2 x 04662	04662 + 04671	
		Bottom support	04663									2 x 04663	04666 + 04661	






Connections to the horizontal Lineryg BS busbars														
Characteristics														
	For busbars with 75 mm between centres, the bars must fully overlap. To satisfy safety clearances, the assembly points on adjacent bars must be staggered as shown above. ⁽²⁾				Catalogue numbers 04636 and 04637 include 1 connection only. Order 1 connection per phase. Reference 04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.									
		1 bar per phase	2 bars per phase		1 bar per phase	2 bars per phase	double BB	2 bars per phase						
Size of vertical bars (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	80 x 10	100 x 10	120 x 10
Catalogue number of the connecting part according to the size of the horizontal bars	≤ 80 mm	04782				04636		04637	04637		2 x 04637		04645	04645
	100 mm	04782				04636 + 04642		04637 + 04642	04637 + 04642		2 x 04637 + 2 x 04642		04645	04645
	120 mm	04782				04638		04638	04638		2 x 04638		04645	04645

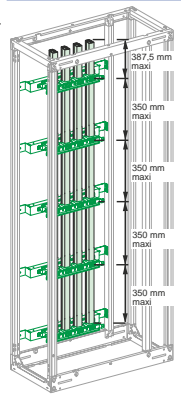
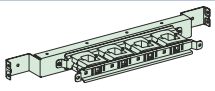
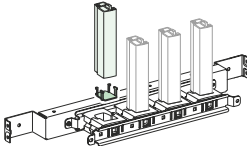
(1) Copper plain bars, 2000 mm length.
 (2) Drilling diagram for horizontal busbars, 5 mm thick.

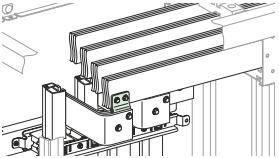
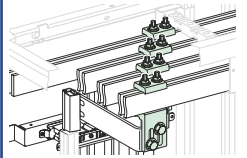
Drilling diagram for horizontal busbars, 10 mm thick.

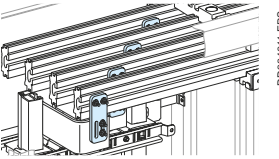


Note: for more information, see page D-81.

Linergy LGY profiles						
		Up to 1600 A				
At the rear of the cubicle		W650				
Linergy profile, 1670 mm length						
Permissible current for an ambient temperature of 35 °C around the switchboard		630 A	800 A	1000 A	1250 A	1600 A
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				
Catalogue numbers		04502	04503	04504	04505	04506

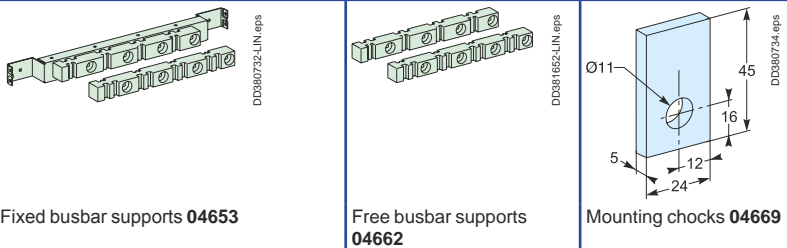
Busbar supports										
										
	Fixed support 04652									
	Number of supports	<table border="1"> <tr> <td>≤ 25</td> <td>3</td> </tr> <tr> <td>≤ 30</td> <td>4</td> </tr> <tr> <td>≤ 40</td> <td>5</td> </tr> <tr> <td>≤ 50 (kA rms/1 s)</td> <td>7</td> </tr> </table>	≤ 25	3	≤ 30	4	≤ 40	5	≤ 50 (kA rms/1 s)	7
	≤ 25	3								
≤ 30	4									
≤ 40	5									
≤ 50 (kA rms/1 s)	7									
Characteristics	 <p>Stop to be installed on the bottom support. 01109 (set of 12).</p>									
Catalogue numbers		<table border="1"> <tr> <td>Fixed support</td> <td>04652</td> </tr> <tr> <td>Chock</td> <td>01109</td> </tr> </table>	Fixed support	04652	Chock	01109				
Fixed support	04652									
Chock	01109									

Connections to the horizontal Linergy BS flat busbars		
		
Connection 04635 to horizontal busbars 5 mm thick.		Connection 04636 to horizontal busbars 10 mm thick.
Characteristics		Mounting hardware supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Cat. no. according to horizontal busbar size		04635
Thickness 5 mm		04635
Thickness 10 mm		04636
W ≤ 80 mm		04636
W > 80 mm		04636 + 04642

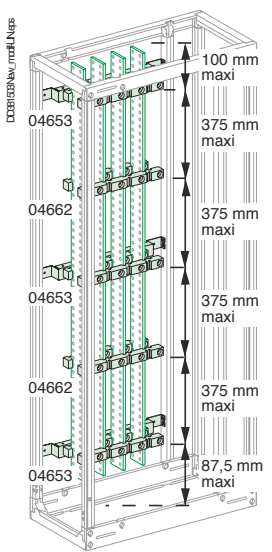
Connections to the horizontal Linergy LGYE flat busbars		
		
Connection 04602 to horizontal Linergy LGYE busbars 5 mm thick.		
Characteristics		Mounting hardware supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Catalogue numbers		04602

Flat bars							
	Up to 1600 A						
At the rear of the cubicle	L650						
Copper with holes, 1670 mm length							
	800 A	1000 A	1400 A	1800 A	1000 A	1200 A	1600 A
Permissible current for an ambient temperature of 35 °C around the switchboard	800 A IP ≤ 31 750 A IP > 31	1000 A	1400 A	1800 A	-	-	-
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10
Number of bars per phase	1		2		1		
Catalogue numbers	04516	04518	04516	04518	04525	04526	04528

Busbar supports



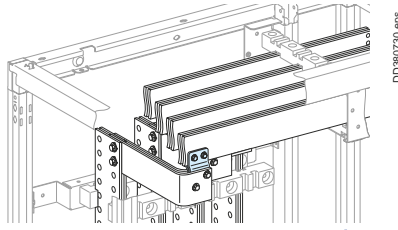
Characteristics Three fixed supports cat. no. 04653 are required to maintain the busbars. If more than three supports are required, use additional free supports cat. no. 04662. A metal mounting chock, cat. no. 04669 (set of 100) 5 mm thick, is screwed to the bar. It rests on a fixed support and maintains the position of the bar.



Number of supports depending on I _{cw} (kA rms/1 s)	≤ 15	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
Chock: 1 bar/phase	3	3	3	3	3	3	3	3	3
Chock: 2 bars/phase	3+2	3+2	3+2	3+2	3+4	3+4	3+4	3+6	-

Catalogue numbers 04653 (fixed) + 04662 (free) + 04669 (chock)

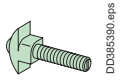
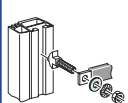
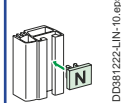
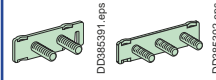
Connections to the horizontal Linergy BS flat busbars

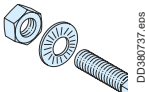



Characteristics Connection 04636 to horizontal busbars Thickness 5 mm | Connection 04636 to horizontal busbars Thickness 10 mm
For part of the connection, flexible insulated busbars are needed. Catalogue numbers 04635 and 04636 include 1 connection only = 1 connection per phase. Reference 04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.

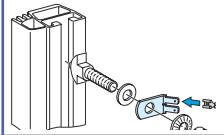
Cat. no. according to horizontal busbar size	Thickness 5 mm		04635
	Thickness	W ≤ 80 mm	04636 ⁽¹⁾
	10 mm	W > 80 mm	04636 + 04642 ⁽¹⁾

(1) To be made.

Accessories		
		 DD385380.eps  DD381218-LIN-16.eps  DD381222-LIN-10.eps  DD385381.eps DD385382.eps
Linergy connection hardware	Characteristics Set of 20: 20 bolts + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position. Catalogue numbers Length 25 mm 04766 Length 39 mm 04767	
Steel flat washers	Characteristics M8 set of 20 Catalogue numbers 20 mm ext. Ø 04772 24 mm ext. Ø 04773 28 mm ext. Ø 04774	
Brass flat washers	Characteristics M8 sold in lots of 20 for connection of ≤ 25 mm ² lugs to Linergy Cat. no. 20 mm ext. Ø 04775	
Markers	Characteristics 12 clip-on supports + N, L1, L2, L3, PE, PEN labels Catalogue numbers 04794 Characteristics Linergy LGYE busbars connection kit spare part Catalogue numbers 01130	
Screwplate	Characteristics Set of 12 flat plates with 2 studs + 24 torque nuts + 24 contact washers The plates slide along the profile. Cat. no. 2 studs 04768 Characteristics Set of 8 flat plates with 3 studs + 24 torque nuts + 24 contact washers The plates slide along the profile. Cat. no. 3 studs 04769	

M8 bolts		
		 DD380737.eps
Linergy BS, 20 bolts class 8.8	Characteristics Set of 20 bolts + 20 nuts + 40 contact washers. Catalogue numbers 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 the manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections. Catalogue numbers 04759	

Voltage tap-offs		
		 DD380736.eps
20 Voltage tap-offs M10 pour 2 clips 6.35	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. Catalogue numbers 04229	

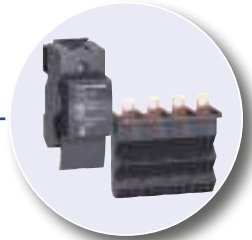
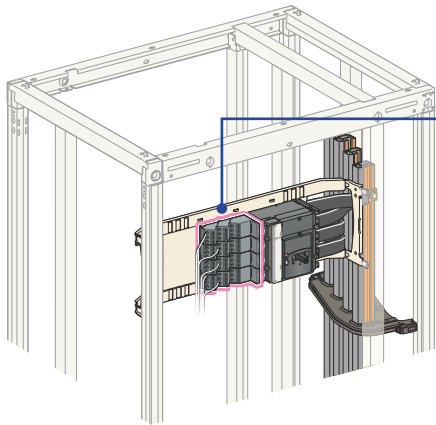
★ Connections on Linergy LGYE & LGY

InA (A)		Connecting to Linergy LGYE	Connecting to Linergy LGY
0 to 630	Cable - Insulated flexible bars	25 mm Linergy connection hardware used	25 mm Linergy connection hardware used
800 to 1250	5 mm bars	25 mm Linergy connection hardware used	25 mm Linergy connection hardware used
1600 to 2500	5 mm or 10 mm bars	Use of the 2 studs flat plate	39 mm Linergy connection hardware used
3200 to 4000	10 mm bars	Use of the 3 studs flat plate	-

Note: Joining between 2 busbars (horizontal/vertical or horizontal/horizontal) must be mandatory done with studs plates.

Lineryg and Prisma P

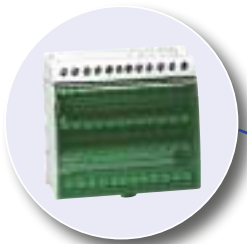
> For incoming devices



Linergy DX 1P 160 A
Linergy DP 3P/4P 250 A

- Reliable spring-terminal connections for outgoing circuits, requiring no maintenance
- Horizontal or vertical installation in minimum space

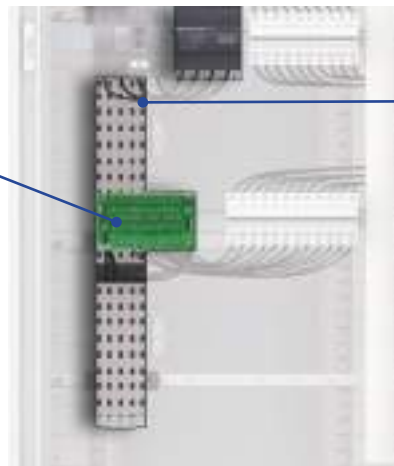
> page B-28



Linergy DS

- Simplified power supply for main incomers.
- Easy, effortless cabling due to excellent accessibility.

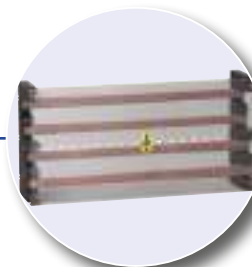
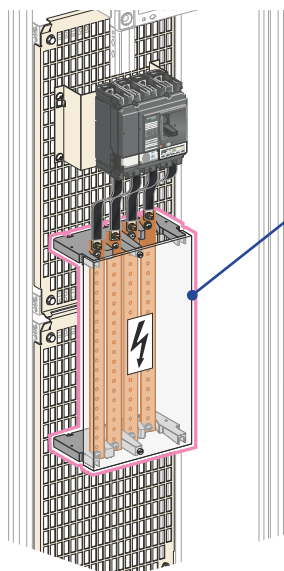
> page B-38



Linergy BW up to 630 A

- Compact busbar, ready for installation (supplied complete with supports and end caps)

> page B-22



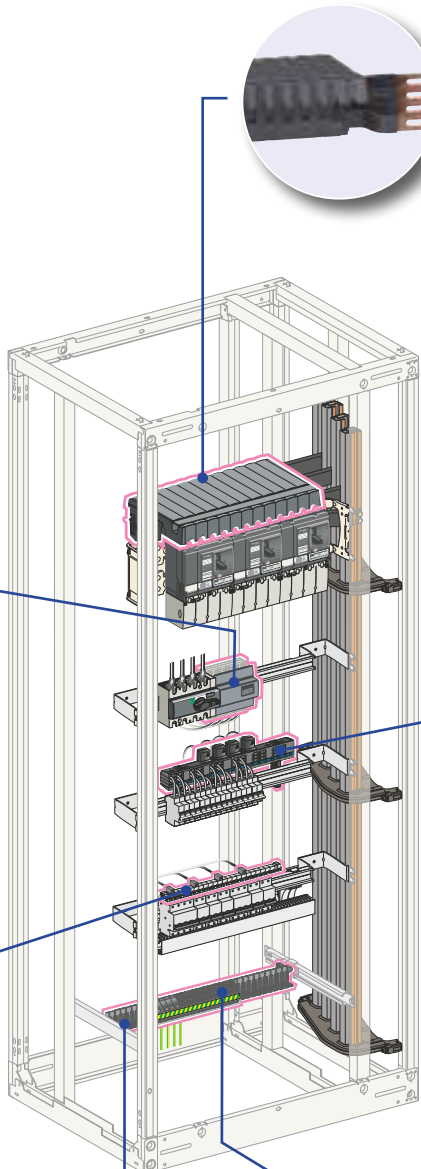
Linergy BS multi-stage distribution block
160 to 630 A

- Traditional, highly polyvalent solution
- Many installation possibilities

> page B-24

Overview of solutions

> On rows of devices



Linergy FC 100/250 A

- Tested solution for all needs up to 800 A
- High-quality connections requiring no maintenance
- Easy switchboard Upgrades

> page B-30

Linergy DX 125 to 160 A

- Spring terminals for electrical connections that stay tight
- Front designed to integrate perfectly with modular devices

> page B-34

Linergy FM 63/200 A

- Reliable spring-terminal connections requiring no maintenance
- Fast installation
- Easy upgrades through replacement or addition of devices
- Easy balancing of phases

> page B-36

Linergy FH 80 to 125 A

- Traditional, highly polyvalent solution
- Many installation possibilities

> page B-40

Linergy TB 63/160 A

- Earth bar quick connect

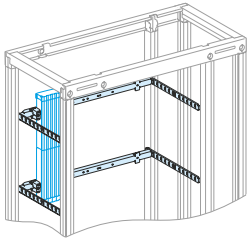
> page B-48

Linergy TR

- Innovative solution

> page B-52

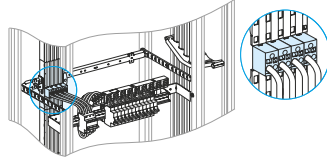
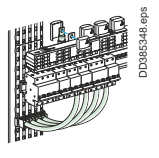
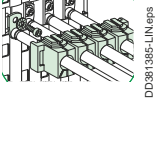
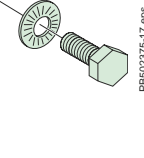
Dd32278.eps





Description

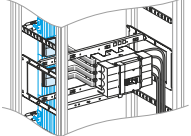
- Compact busbar, **IPxxB**, ready for installation (supplied complete with supports and end caps)
- Shaped busbar, threaded M6 with 25-mm pitch, can be cut with 200-mm pitch (150 mm for the 125 A)
- Busbar installed on insulating supports, screwed onto the rear uprights
- Wide selection of tested pre-wired connectors
- Clip-on covers to protect against direct contact (IPxxB). Can easily be cut to allow connections to pass through to the switchgear
- Ends protected by end caps.

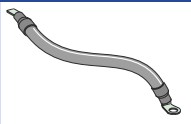
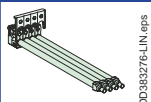
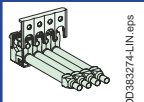
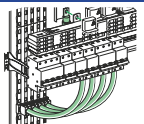
Linergy BW busbars											
		125 A		160 A		250 A		400 A		630 A	
Rated peak withstand current	(Ipk)	20 kA		30 kA		30 kA		52.5 kA		52.5 kA	
Rated insulation voltage	(Ui)	500 V AC		750 V AC		750 V AC		750 V AC		1000 V AC	
Rated impulse withstand voltage	(Uimp)	8 kV		8 kV		8 kV		8 kV		8 kV	
Rated short-time current	(Icw)	8.5 kA rms/1 s		10 kA rms/1 s		13 kA rms/1 s		20 kA rms/1 s		25 kA rms/1 s	
Thermal stress	(A ² .s)	7.225 x 10 ⁷		1.000 x 10 ⁸		1.690 x 10 ⁸		4.000 x 10 ⁸		6.250 x 10 ⁸	
Width (mm)		450	750	1000	1400	1000	1400	1000	1400	1000	1400
Catalogue numbers	3P	04103	04107	04111	04116	04112	04117	04113	04118	04114	04119
	4P	04104	04108	04121	04126	04122	04127	04123	04128	04124	04129

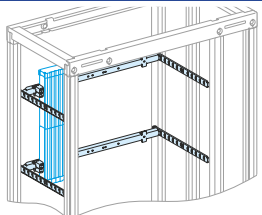
Accessories										
										
	IPxxB tap-off terminals		200 A connections		IPxxB insulating covers		Class 8.8 fixing accessories			
	12 terminals For 6 mm ² (32 A max.) and 10 mm ² cable (40 A max.) Ui: 750 V In: 55 A max. ⁽¹⁾		12 terminals For one 1 to 16 mm ² cable Ui: 750 V In: 55 A max. with one cable		Covers which can be clipped on and cut to size are used to isolate the connectors of a connection with cables of cross-section 10 to 25 mm ² .		M6 x 12 + 20 M6 contact washers.			
Used for connecting	<ul style="list-style-type: none"> ■ All switchgear equipped with enclosed terminals ■ Linergy FM 160/200 A 		<ul style="list-style-type: none"> ■ All switchgear equipped with enclosed terminals ■ Linergy FM 63/80/160/200 A 		<ul style="list-style-type: none"> ■ Linergy FM 200 A 					
Set of	12		12		4		8		20	
Cat. no.	04151		04152		04021		04150		04158	

Spare parts						
						
	Busbar supports Linergy BW					
Rated operational current at 40 °C	(Ie)	125 A	160 A	250 A	400 A	630 A
Composition	2 busbar supports + 2 end caps + packet of fixing accessories.					
Catalogue numbers	-	01210	01210	01210	01210	01211
						
	IPxxB clip-on covers					
Width (mm)	200					
Set of	2					
Catalogue numbers	-	01201	01201	01201	01201	01201

(1) I_{max} = 55 A for connected cables.

Mounting	Vertical					Horizontal		
								
	Universal power supply units without connection		Connections for universal power supply block			Universal power supply units with connections		
Devices	Fixed ■ NSX100/250 horizontal rotary handle or motor mechanism ■ Fupact INF100/160 vertical, Fupact ISFT100/250	Fixed ■ NSX400/630 with or without Vigi in cubicle ■ INS-INV320/630	Fixed ■ NSX100/250 toggle in cubicle ■ INS-INV250 vertical	Fixed ■ NSX100/250 with or without Vigi in duct ■ INS-INV250 vertical in duct	Fixed ■ NSX400/630 with or without Vigi in duct ■ INS-INV320/630 in duct	Fixed ■ NSX100/250 horizontal with or without Vigi ■ INS-INV250 horizontal	Fixed ■ NSX400 horizontal ■ INS-INV320/400 horizontal	Fixed ■ NSX630 horizontal ■ INS-INV500/630 horizontal
Cat. no.	04061	04074	04062	04064	04073	04060	04070	04071
Devices	Plug-in base ■ NSX100/250 horizontal rotary handle or motor mechanism ■ Fupact INF100/160 vertical, Fupact ISFT100/250	Plug-in base ■ NSX400/630 with or without Vigi in cubicle ■ INS-INV320/630	To be made Insulated flexible bars			Plug-in base ■ NSX100/250 horizontal rotary handle or motor mechanism in cubicle ■ Fupact INF100/160 vertical, Fupact ISFT100/250	Plug-in base ■ NSX400/630 with or without Vigi in cubicle ■ INS-INV320/630 in cubicle	Insulated flexible bars To be made
Cat. no.	04061	04074	See page page B-32			04061	04074	See page B-32
Devices	Withdrawable ■ NSX100/250 horizontal rotary handle or motor mechanism in cubicle ■ Fupact INF100/160 vertical, Fupact ISFT100/250	Withdrawable ■ NSX400/630 with or without Vigi in cubicle ■ INS-INV320/630 in cubicle	To be made Insulated flexible bars			Withdrawable ■ NSX100/250 horizontal rotary handle or motor mechanism in cubicle ■ Fupact INF100/160 vertical, Fupact ISFT100/250	Withdrawable ■ NSX400/630 with or without Vigi in cubicle ■ INS-INV320/630 in cubicle	Insulated flexible bars To be made
Cat. no.	04061	04074	See page page B-32			04061	04074	See page B-32

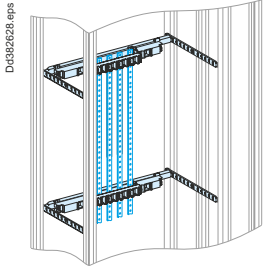
Prefabricated connections						
						
	Connections		IPxxB 3/4P monobloc conn.		IPxxB 3/4P monobloc conn.	Connections
	35 mm ² ferrule + 45° angled connector	45 mm ² ferrule + 45° angled connector	Quick connection on the busbar equipped with a male ferrule for enclosed terminals. Neutral identified by the colour blue.		-	-
Rated operational current at 40 °C (Ie)	125 A	160 A	160 A	160 A	200 A	
Width	230 mm	250 mm	440 mm	150 mm	-	
Used for connecting	■ NG125, INS with enclosed terminals cat. no. 28947 or 28948	■ INS160, NG125, NG160	■ NG160 (located on left-hand side), Vigi NG160 (located in the middle), ■ NG125, INS160, C120, iC120		■ NG160 (located on left-hand side), NG125, INS160, C120, iC120	■ Linergy FM 200 A
Set of	4	4	1	1	4	
Catalogue numbers	04145	04146	04148	04147	04021	

Adaptation	
	
Characteristics	Prisma G adapter W = 500 mm
Catalogue numbers	2 x 03595

Note: the adapter 03595 can be used for all mounting plates, except 03030.

Linergy BS

Rear busbars up to 400 A

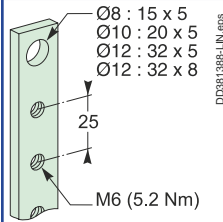


IEC 61439-1 & 2

Description

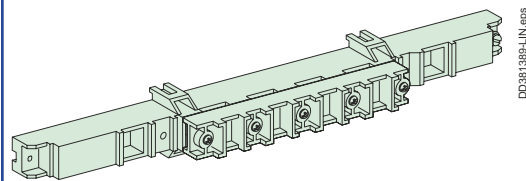
The busbar can be 3-pole or 4-pole with ratings between 160 A and 400 A. 2 lengths are available: 1000 and 1400 mm, which can be cut as required. The number of supports depends on the installation maximum rated current. The insulating supports can receive a fifth bar, 15 x 5 mm or 20 x 5 mm, to create an earth bar.

160 to 400 A copper busbars



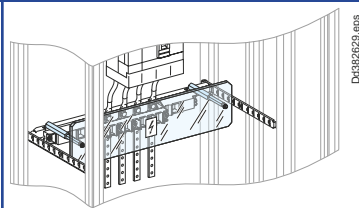
	160 A	250 A	400 A			
Rated peak withstand current (Ipk)	30 kA	40 kA	55 kA			
Rated insulation voltage (Ui)	1000 V AC	1000 V AC	1000 V AC			
Rated short-time current (Icw)	10 kA rms/1 s	13 kA rms/1 s	25 kA rms/1 s			
Thermal stress (A².s)	1.000 x 10 ⁸	1.690 x 10 ⁸	6.250 x 10 ⁸			
Conductor cross-section	15 x 5 mm	20 x 5 mm	32 x 5 mm			
Installation	Threaded M6 holes every 25 mm all the way up Connection by: 16 to 50 mm ² flexible cables with crimped lugs					
Set of	4					
Length (mm)	1000	1400	1000	1400	1000	1400
Catalogue numbers	04161	04171	04162	04172	04163	04173

Insulating busbar support



Distance between supports depending on Icw/Ipk ⁽¹⁾	≤ 10 kA rms / 1 s / 30 kA	≤ 13 kA rms / 1 s / 40 kA	≤ 15 kA rms / 1 s / 40 kA	≤ 20 kA rms / 1 s / 45 kA	≤ 25 kA rms / 1 s / 55 kA
450 mm	450 mm	450 mm	450 mm	300 mm	225 mm
Installation	On the rear uprights Screwed onto a solid or pre-slotted plate (fixing centres 450 x 200 mm)				
Catalogue numbers	04191	04191	04191	04191	04191

IPxxB insulating protective shield

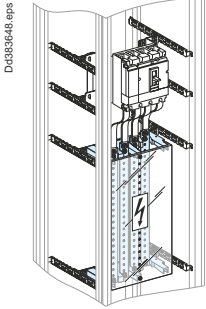


Length	470 mm
Height	100 mm
Composition	Supplied with fixings.
Catalogue numbers	04198

⁽¹⁾ Linergy FM 200 A distribution blocks with connections ref. 04029 can act as intermediate supports (max. distance apart 200 mm) in addition to the support ref. 04191 at the top and bottom.

Linergy BS

Multi-stage busbars up to 630 A

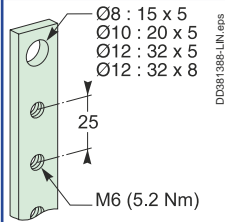


IEC 61439-1 & 2

Description

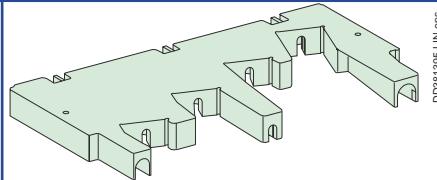
Multi-stage busbars are installed in a sheath $W = 400$ mm. We strongly recommend dividing the current between 2 cubicles or enclosures joined on either side. All the connection points are easily accessible from the front. The busbar orientation makes them easier to tighten and facilitates running the cables between them. The current can be 3-pole or 4-pole with ratings between 160 A and 630 A. 2 lengths are available: 1000 and 1400 mm, which can be cut as required. The number of supports depends on the installation maximum rated current.

160 to 630 A copper busbars



	160 A	250 A	400 A	630 A				
Rated peak withstand current (Ipk)	30 kÅ	40 kÅ	55 kÅ	55 kÅ				
Rated insulation voltage (Ui)	750 V AC	750 V AC	750 V AC	750 V AC				
Rated short-time current (Icw)	10 kA rms/1 s	13 kA rms/1 s	20 kA rms/1 s	25 kA rms/1 s				
Thermal stress (A ² .s)	1.000×10^8	1.690×10^8	4.000×10^8	6.250×10^8				
Supply at incoming terminals	Connection by: 16 to 50 mm ² flexible cables with crimped lugs.							
Conductor cross-section	15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm				
Installation	Flat copper busbar with threaded M6 holes every 25 mm all the way up.							
Set of	4							
Width (mm)	1000	1400	1000	1400	1000	1400	1000	1400
Catalogue numbers	04161	04171	04162	04172	04163	04173	To be made	04174

Insulating busbar support ⁽¹⁾

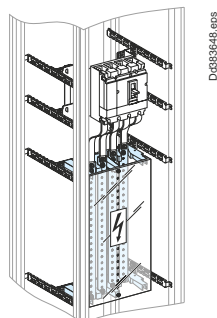


Distance between supports depending on Icw/Ipk ⁽¹⁾	≤ 10 kA rms/ 1 s / 30 kÅ	≤ 13 kA rms/ 1 s / 40 kÅ	≤ 15 kA rms/ 1 s / 40 kÅ	≤ 20 kA rms/ 1 s / 45 kÅ	≤ 25 kA rms/ 0.6 s / 55 kÅ	≤ 25 kA rms/ 1 s / 55 kÅ
450 mm	450 mm	450 mm	450 mm	450 mm	450 mm	450 mm
-	-	450 mm	-	-	-	-
-	-	-	450 mm	450 mm	450 mm	450 mm
-	-	-	300 mm	300 mm	300 mm	300 mm
-	-	-	300 mm	-	-	-
-	-	-	-	-	-	300 mm

Installation: Installation on functional uprights of duct (Prisma). Screwed onto a solid or pre-slotted plate (450 x 200 mm fixing centres)

Catalogue numbers	04192	04192	04192	04192
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IPxxB insulating protective shield



Width	250 mm
Height	1500 mm
Composition	Fixing accessories supplied with support cat. no. 04192.
Catalogue numbers	04197

Linergy BS

Multi-stage distribution block up to 630 A

PB502514_00.eps



IEC 61439-1 & 2

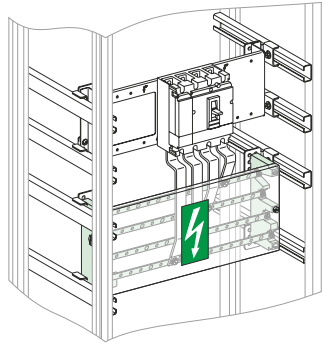
Description

The distribution block can be installed horizontally in the device zone or vertically in the 300 mm wide duct of enclosures and cubicles.

The distribution block is made up of:

- two staggered supports made of an insulating material
- four slanted copper bars with holes every 25 mm.

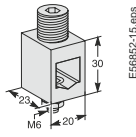
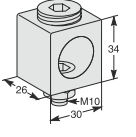
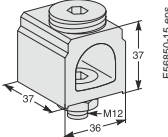
Multi-stage distribution block

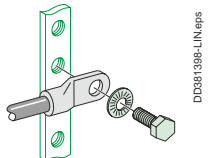


D038347-SE.eps

	160 A	250 A	400 A	630 A
Rated peak withstand current (I _{pk})	30 kA	30 kA	40 kA	40 kA
Rated insulation voltage (U _i)	750 V AC			
Rated operational voltage (U _e)	440 V AC			
Rated impulse withstand voltage (U _{imp})	8 kV			
Rated short-time current (I _{cw})	10 kA rms/1 s	13 kA rms/1 s	20 kA rms/1 s	25 kA rms/1 s
Thermal stress (A ² .s)	1.000 x 10 ⁸	1.690 x 10 ⁸	4.000 x 10 ⁸	6.250 x 10 ⁸
Total connection capacity	4 incomers per phase: ø12.2 mm clearance holes 13 outgoing per phase 16 to 50 mm ² : M6 tapped holes			
Busbar cross-section	15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm
Dimensions (mm)				
Installation	Screwed onto a solid or pre-slotted plate (fixing centres 450 x 200 mm) Screwed to an adapter cat. no. 03595 .			
Composition	2 multi-stage supports made of an insulating material 4 slanted copper busbars, with holes every 25 mm 1 pack of 36 M6 x 16 screws + contact washers 1 IPxxB front insulating shield			
Catalogue numbers	04052	04053	04054	04055

D0381344-LIN-40.eps

Incomer accessories			
			
	Connectors for copper or aluminium cables		
Rated operational current at 40 °C (Ie)	160 A	250 A	400 A
Supply at incoming terminals	70 mm ² cables	16 to 185 mm ² cables	70 to 300 mm ² cables
Composition	Supplied with fixings at busbar end.		
Set of	4		
Catalogue numbers	07051	07052	07053

Outgoer accessories	
	
	Class 8.8 fixing accessories
Composition	20 M6 x 20 screws + 20 nuts + 40 contact washers
Catalogue numbers	04194

Distribution blocks

PB11455_50.eps



IEC 60947-7-1, CEI 61439-1 et 2




Description

■ The Linergy DP quick distribution block is designed for installation directly downstream of Compact NSX and INS up to 250 A. It can also be clipped onto a modular rail.



Advantages

- It is quick to mount in the horizontal position. Electrical connections are made directly to the device terminals.
- It is the same width as the devices and does not take up any additional space in the switchboard.
- The connection terminals are slanted to facilitate cable entry and avoid exceeding the bending radius of the flexible and rigid cables.

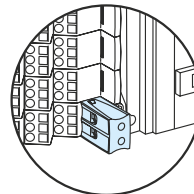
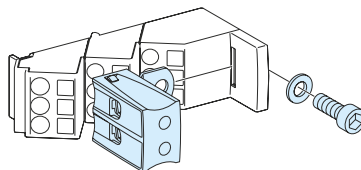
Quick distribution blocks for Compact devices

Number of poles	3P	4P	3P	4P
				
Rated operational current (Ie)	250 A	250 A	250 A	250 A
Rated peak withstand current (Ipk)	30 kA	30 kA		
Rated short-time current (Icw)	8.5 kA rms/1 s	8.5 kA rms/1 s		
Thermal stress (A².s)	7.225 x 10 ⁷	7.225 x 10 ⁷		
Total connection capacity, outgoing terminals	27 connections: 6 x 10 ² /phase 3 x 16 ² /phase	36 connections: 6 x 10 ² /phase 3 x 16 ² /phase	2 connections: 2 x 35 ² /pole	2 connections: 2 x 35 ² /pole
Incomer terminals	1 cosse 120 mm ² par pôle			
Dimensions (H x W x D)	105 x 138 x 63	140 x 138 x 64		
Installation	On mounting plate or DIN rail		On mounting plate	
Product certifications	ASEFA - KEMA			
Standard for installation inside Prisma	IEC 61439-1-2			
Glow-wire 60695-2-11	960 °C			
Catalogue numbers	04033	04034	04155	04156

Additional block

		
Description	2 x 35 ² 3P for Linergy DP 250 A	2 x 35 ² 4P for Linergy DP 250 A
Catalogue numbers	04155	04156

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Linergy DP

Quick distribution blocks

Technical data

Common characteristics

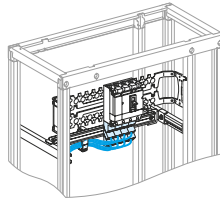
Rated conditional short-circuit current of an assembly (Isc)		The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage (Ui)		750 V AC
Rated operational voltage (Ue)		690 V AC
Rated impulse withstand voltage (Uimp)		8 kV
Network frequency		50/60 Hz
Degree of protection		IPxxB
Degree of pollution		3
Overvoltage category		III

Technical data supplémentaires

Reference temperature		40 °C
Operating temperature		-25 °C to 55 °C

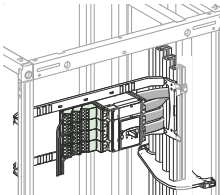
Installation

DD381402.eps



It can also be mounted downstream of vertically mounted Compact **NSX100/250** and Compact **INS250** devices in the enclosures. In this case, the Linergy DP is mounted on a depth-adjustable modular rail.

DD385387.eps



Directly on the mounting plates of horizontally mounted Compact **NSX100/250** and Compact **INS250** devices in the enclosures.

PB602507-48_L.jpg



PB602503-48_L.jpg



IEC 61439-1 et 2

Description

Linergy FC is an insulated horizontal distribution block. It connects directly to the mounting plate and can supply:

- three four-pole and four three-pole Compact NSX circuit breakers, whatever the ratings (100, 160 or 250 A), the operating systems (toggle, rotary handle, motor mechanism), whether fixed or plug-in, front or rear connection (the circuit breakers must be equipped with long terminal shields downstream)

- three three-pole or four-pole Compact INS switch-disconnectors, whatever the ratings (100, 160 or 250 A), whether front or rear connection.

- The design and small size blend perfectly with the devices.
- It can be supplied by Linergy BS or Linergy LGY busbars positioned to the left or right.

- Fully insulated, Linergy FC contributes to the safety of life and property. Numerous and well distributed vents ensure natural convection and optimum cooling of the conductors.

- The circuit breakers can be easily connected from the front. It is simple to interchange a device or to add a device in a reserve slot.

- There are markings (N, L1, L2, L3) on the front and the sides of the phases.

- The running of auxiliary cables between the devices and the corresponding terminal blocks is also taken into account. Spacious trunking is built into the blocks for the auxiliary wiring.

Compact NSX100/250 & INS/INV250 - Toggle, fixed



PB602507-48_L.jpg

Number of poles	Linergy FC with prefabricated connections by insulated flexible bars	3P	4P
Connection to	Linergy LGY busbars		
Number of devices	4	3	
Composition	Self-adhesive labels to mark the phases for connections to the busbars.		
Cat. no.	04403	04404	

Compact NSX100/250 - Rotary handle, motor mechanism, fixed Compact NSX100/250 - All controls, withdrawable ⁽¹⁾

Number of poles	Linergy FC with prefabricated braids ⁽¹⁾	3P	4P
Connection to	Linergy BS, Linergy LGY or Linergy LGYE busbars		
Number of devices	4	3	
Composition	Self-adhesive labels to mark the phases for connections to the busbars.		
Cat. no.	04405	04406	

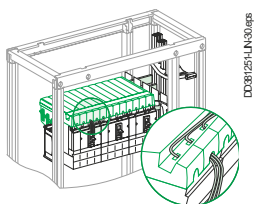
Compact NSX100/250 & INS/INV250 - All controls, fixed and withdrawable



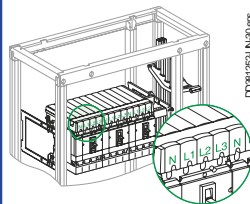
PB602508-32_L.jpg

Number of poles	Linergy FC without prefabricated connections ⁽¹⁾	3P	4P
Connection to	Linergy BS, Linergy LGY or Linergy LGYE busbars		
Number of devices	4	3	
Composition	Self-adhesive labels to mark the phases for connections to the busbars.		
Cat. no.	04407 ⁽²⁾	04408 ⁽²⁾	

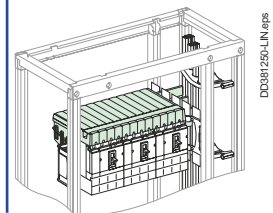
Implementation



Auxiliary wires running in the built-in trunking.



Phase marking on the front of the distribution block.



DD381250-LN.jpg

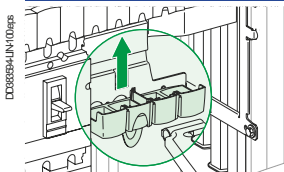
⁽¹⁾ The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (04922). In this case, use the form 2 restoration kit (04924).

⁽²⁾ For the connection, use insulated flexible bars, 32 x 8mm cat. no. 04753; Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

Lineryg FC

Feeders for Compact NSX and INS

Accessories



Tooth caps

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

Catalogue numbers

04809

Characteristics

Common characteristics

Rated operational current at 40° (Ie)	Distribution-block derating follows the normal derating curves of Compact NSX and INS
Rated conditional short-circuit current of an assembly (Isc)	The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested. The electrical characteristics are perfectly compatible with the connected devices. Neither the temperature derating curves nor the performance levels of the circuit breakers and switch-disconnectors are altered.
Rated insulation voltage (Ui)	750 V AC
Rated operational voltage (Ue)	690 V AC
Rated impulse withstand voltage (Uimp)	8 kV
Rated peak withstand current (Ipk)	50 kA rms
Rated short-time current (Icc)	85 kA
Thermal stress (A ² .s)	2.500 x 10 ⁷
Rated conditional short-circuit current of an assembly	Short-circuit withstand current compatible with the breaking capacity of the Compact NSX circuit breakers connected to the distribution block.

Lineryg FC selection table for special cases

For most installations, the temperature around the switchboard is 40 °C, corresponding to an average temperature of 60 °C inside the switchboard. Under certain conditions, the temperature inside the switchboard may be different.

(A) Rated operational current as a function of the temperature inside the switchboard

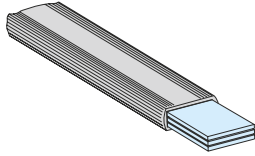
Temperature (°C)	40	45	50	55	60	65	70
I _{nc} (A)	3P	800	800	775	750	725	700
	4P	675	675	655	635	615	595

To obtain the maximum permissible current for the linergy FC, apply the diversity factor K:

- Linergy FC 3P: K = 0.8
- Linergy FC 4P: RDF = 0.9.

Secondary distribution

DD381659.eps



The insulated flexible bars are tested in a type-tested switchboard environment. Their design takes into account the switchboard architecture where they are often in close proximity to a protection device (circuit breaker or fuse) with significant heat losses.

The sizes for the flexible bars indicated below take into account the heat losses of Schneider Electric devices in a Prisma switchboard.

Characteristics

Width	1800 mm
Rated insulation voltage (Ui)	1000 V
Maximum withstand temperature for the insulating material	125 °C

Connection between device and busbars

The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.

The bar sizes indicated below take into account the derating curves of devices.

Devices	Size (mm)	Catalogue number
NSX100	20 x 2	04742
NSX160/250	20 x 3 ⁽¹⁾	04743
NSX400	32 x 5	04751
NSX630	32 x 8 ⁽²⁾	04753
INS125/160	20 x 2	04742
INS250	20 x 3	04743
INS400	32 x 5	04751
INS630	32 x 6	04752
FM 200 A Linergy	20 x 3	04743
FC 3P Linergy	32 x 8 ⁽²⁾⁽³⁾	04753
FC 4P Linergy	32 x 8 ⁽²⁾⁽³⁾⁽⁴⁾	04753
Fupact 250	24 x 5	04746
Fupact 400	32 x 5	04751
Fupact 630	32 x 8 ⁽²⁾	04753
Easypact CVS100	20 x 2	04742
Easypact CVS160/250	20 x 3 ⁽¹⁾	04743
Easypact CVS400	32 x 5	04751
Easypact CVS630	32 x 8 ⁽²⁾	04753

(1) To connect a Compact NSX250 to Linergy BW busbars, use a 24 x 5 mm flexible bar (04746).

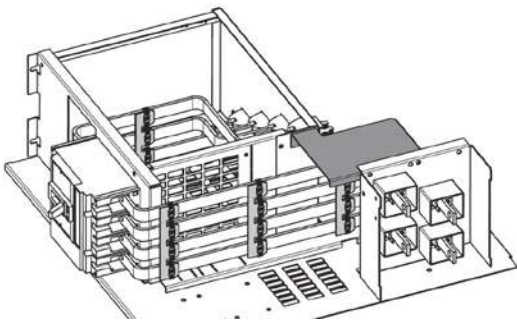
(2) The insulated flexible bars is not compatible with Form 2 partitioning (04922).

In this case, use the form 2 restoration kit 04924 (see page B-58).

(3) In case of use of 32 x 6 insulated flexible bar, please contact Schneider Electric.

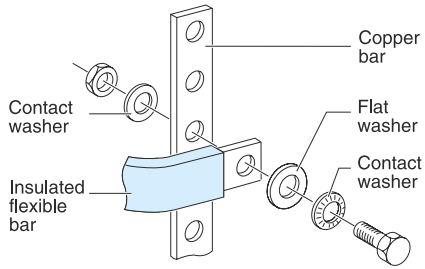
(4) Max length 500 mm per connection

DD395805.eps



The references **87646** (3P) and **87647** (4P) can be used up to 250 A, when binding of insulated flexible bars, to withstand Icw.

DD3282018 eps



Connection between busbars

Copper flexible bars are designed for connections between busbars taking into account the following characteristics:

- a maximum temperature of 60 °C inside the switchboard. This corresponds to the average temperature inside a switchboard for an ambient temperature of 35 °C
- the maximum withstand temperature for the insulating material is 125 °C.

$I_e^{(1)}$ max	Size (mm)	Catalogue numbers
200 A	20 x 2	04742
250 A	20 x 3	04743
400 A	24 x 5	04746
520 A	32 x 5	04751
580 A	32 x 6	04752
660 A	32 x 8	04753

(1) Rated operational current.

Designing connections

> page B-32.



IEC 60947-7-1, CEI 61439-2



Description

- Downstream circuits are connected from the front, to spring terminals.
- Contact pressure automatically adapts to the size of the conductor.
- Contacts are insensitive to vibrations and thermal variations.
- Only one cable (flexible or rigid) can be inserted per terminal.

Quick distribution blocks




Number of poles	4P, upstream incoming	4P, downstream incoming
		
Rated operational current at 40° (Ie)	63 A	63 A
Rated conditional short-circuit current of an assembly (Isc)	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested.	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested.
Rated peak withstand current (Ipk)	-	-
Rated insulation voltage (Ui)	500 V AC	500 V AC
Rated operational voltage (Ue)	440 V AC	440 V AC
Rated impulse withstand voltage (Uimp)	6 kV	6 kV
Rated short-time current (Icw)	-	-
Thermal stress (A².s)	-	-
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Incoming terminals	1 tunnel terminal 25²/phase	1 tunnel terminal 25²/phase
Total connection capacity, outgoing terminals	24 connections : 4 x 6²/phase 12 x 6²/neutre	24 connections : 4 x 6²/phase 12 x 6²/neutre
Dimensions (H x W x D)	96.5 x 72 x 62 8 x 9 mm pitch	96.5 x 72 x 62 8 x 9 mm pitch
Installation	Clipped onto a DIN rail	Clipped onto a DIN rail
Others		
Standard for installation inside Prisma	IEC 61439-2	IEC 61439-2
Glow-wire 60695-2-11	960 °C	960 °C
Degree of pollution	3	3
Catalogue numbers	04040	04041

Accessories

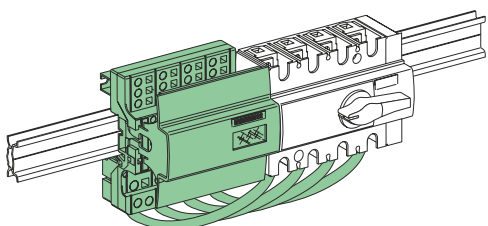
Catalogue numbers	-	-
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Advantages

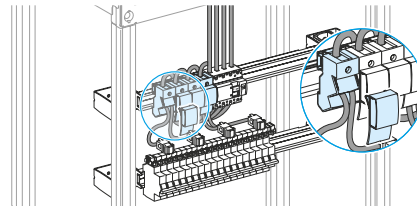
- A reliable electrical connection, no maintenance required (tightness guaranteed over time).
- Quick connection.
- Easy phase balancing.
- Ease of rewiring if the switchboard is expanded or modified.

4P		1P	
			
125 A	160 A	160 A	
20 kA/60 ms max according to IEC 61439-1	20 kA/60 ms max according to IEC 61439-1	32 kA	
20 kA	20 kA	24 kA	
750 V AC	750 V AC	750 V AC	
690 V AC	690 V AC	690 V AC	
8 kV	8 kV	8 kV	
4.5 kA rms/1 s	4.5 kA rms/1 s	5.5 kA rms/1 s	
2.025×10^7	2.025×10^7	3.025×10^7	
50/60 Hz	50/60 Hz	50/60 Hz	
IPxxB	IPxxB	IPxxB	
1 tunnel terminal 35 ² /phase	Supplied with a prefabricated flexible connection (with lugs), designed for an INS100/160 switch-disconnector installed on the left or the right	1 tunnel terminal 70 ² /phase	
52 connections : 7 x 4 ² /phase 3 x 6 ² /phase 2 x 10 ² /phase 1 x 16 ² /phase (screw terminal)	52 connections : 7 x 4 ² /phase 3 x 6 ² /phase 2 x 10 ² /phase 1 x 16 ² /phase (screw terminal)	6 connections : 6 x 16 ² /phase	
127 x 108 x 48 8 x 9 mm pitch	127 x 108 x 48 8 x 9 mm pitch	95 x 36 x 70 4 x 9 mm pitch	
Screwed to plain or slotted backplate or onto DIN rail	Screwed to plain or slotted backplate or onto DIN rail	Onto DIN rail	
Possible to combine 2 terminal blocks (2 nd terminal block supplied from enclosed terminals in the 1 st , I _{max} of 2 nd terminal block: 80 A)			
IEC 61439-2	IEC 61439-2	IEC 61439-2	
960 °C	960 °C	960 °C	
3	3	3	
04045	04046	04031	
4 x 125 A flexible connections, L = 210 mm with 1 end fitting for tunnel terminal and 1 end 45° angle lug		4 x 160 A flexible connections, L = 380 mm with 2 x 45 mm ² end fittings for tunnel terminals.	
04047	-	04149	

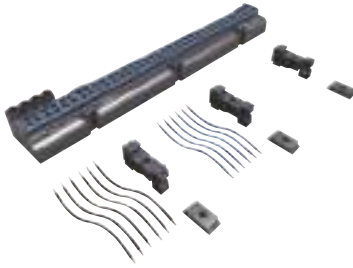
PE602370-55_r.eps



D4353654_r.eps





PB104505-50.eps



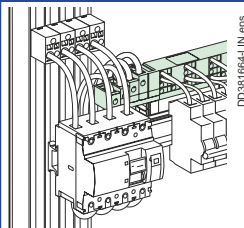
Description

- Distribution over full rows of modular devices.
- The distribution block is generally supplied by busbars in enclosures and cubicles.
- Easy phase balancing.
- Mix of devices and functions in the same row.
- Installation u 160 A: clipped onto the back of a modular rail or screwed onto a solid or pre-slotted plate.

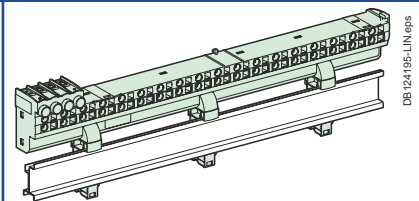
Distribution blocks

Number of poles		4P	4P
			
		63 A	80 A
Rated peak withstand current (Ipk)		15 kA	16 kA
Rated conditional short-circuit current of an assembly (Isc)		The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves, and their whole performance is maintained.	
Rated insulation voltage (Ui)		500 V AC	500 V AC
Rated voltage (Ue)		440 V AC	440 V AC
Rated impulse withstand voltage (Uimp)		6 kV	6 kV
Maximum current (Imax)		-	-
Thermal stress (A ² .s)		2.400 x 10 ⁶	2.400 x 10 ⁶
Rated operational frequency		50/60 Hz	
Degree of protection		IPxxB	IP20
Width	9 mm modules	24	48
	18 mm modules	12	24
Supply at incoming terminals		Enclosed terminals for cables up to 25 mm ²	Enclosed terminals for cables up to 25 mm ²
Downstream connection capacity, cable to be used without ferrules	Max. 4 mm ²	Phase 2	-
		Neutral 4	-
	Max. 6 mm ²	Phase 2	-
		Neutral 4	-
Max. 10 mm ²	Phase	-	18
	Neutral	-	18
Accessories included	Pre-stripped copper connections	10 x 4 mm ² + 6 x 6 mm ² (W = 100 mm)	12 blue + 12 black
	Protection cover	-	-
	Fixings	-	-
Catalogue numbers		04008	04000

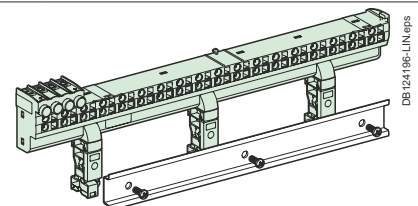
Installation



Clipped onto the back of a modular rail, or screw fixing.








Clipped onto the back of a modular rail, or screw fixing.



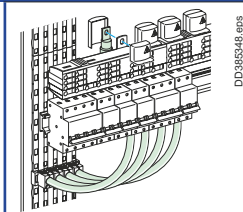
Can be mounted in Pragma Evolution enclosures and in Prisma Pack 160.



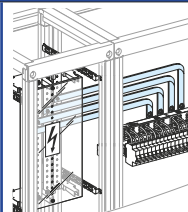
PD3906CFR.eps

4P	2P	3P	4P	4P
 PB502500-16_r.eps	 PB502499-23_r.eps	 PB502498-27_r.eps	 PB502497-27_r.eps	 PB502501-27_r.eps
160 A 27 kÅ	200 A 25 kÅ	200 A 25 kÅ	200 A 30 kÅ	200 A 20 kÅ
The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested.				
750 V AC	750 V AC	750 V AC	750 V AC	750 V AC
690 V AC	690 V AC	690 V AC	690 V AC	690 V AC
8 kV	8 kV	8 kV	8 kV	8 kV
50 A for feeder for 10 mm ² cable/63 A for feeder for 2 10 mm ² cables				
6.700 x 10 ⁶	6.700 x 10 ⁶	6.700 x 10 ⁶		6.700 x 10 ⁶
50/60 Hz				
IPxxB				
24	48			72
12	24			36
Direct onto the row by cable 50 mm ² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection				
-	-			-
-	-			-
-	-			-
-	-			-
6	12			-
6	18			-
20 x 4 mm ² + 6 x 6 mm ² (W = 100 mm)				
For rows (IPxxB)				
For rows				
04018	04012	04013	04014	04026

Connections to the distribution block



D0395248.eps



D0403655.eps

	4P 200 A connection (supplied with fixings)	4P 200 A connection (supplied with fixings)	4P 200 A connection (supplied with fixings)	4P 160 A connection for Linergy FM 1/2 row
Allows power supply from	Linergy BW busbars	Linergy BS busbar	Rear Linergy BS busbar	Devices
Catalogue numbers	04021	04024	04029	04030

Spare parts



PB50250248_r.eps

	4 covers for 160/200 A Linergy FM rows
Catalogue numbers	01202

Distribution blocks



IEC/EN 60947-7-1, IEC/EN 61439-1 & 2





Description

- Single-pole or four-pole distribution block that can be installed on a standard DIN rail or on a mounting plate.
- Compatible with Prisma G and P, Pragma, Mini Pragma and Resbo series switchboards.
- Incomers and feeders are connected to screw terminals that accept rigid or flexible cables with ferrule.
- Optional: additional neutral terminal strip for four-pole distribution block.

Avantages

- Simplified power supply for main incomers.
- Easy phase balancing.
- Easy, effortless cabling due to excellent accessibility.
- Visible cabling.
- Insulation between phases.
- The single-pole distribution blocks are adjacent and bridgeable via the second incoming hole for parallel connection.

Screw distribution blocks

Number of poles	1P			4P
				
Rating	125 A	160 A	250 A	100 A
Total connection capacity	10	13	14	4 x 7
Terminal capacity				
Diameter	2 x Ø9.5 mm	2 x Ø12 mm	1 x Ø15.3 mm	2 x Ø7.5 mm
	2 x Ø7.5 mm	3 x Ø7.5 mm	1 x Ø10 mm	5 x Ø5.5 mm
	6 x Ø5.8 mm	8 x Ø5.8 mm	4 x Ø6 mm	-
	-	-	8 x Ø7.5 mm	-
Rated peak withstand current (I _{pk})	I _{pk} /60 ms	25 kA	36 kA	60 kA
	I _{pk} /6 ms	-	-	-
Rated short-time withstand current (I _{cw}) (IEC/EN 60947-7-1)	4.2 kA rms/1 s	8.4 kA rms/1 s	14.4 kA rms/1 s	3 kA rms/1 s
Width (number of 9 mm pitches)	3	4	5	8
Dimensions (H x W x D)	85 x 27 x 50.5	85 x 36 x 50.5	85 x 45 x 50.5	100 x 71 x 50.5
Weight (g)	125	163	239	210
Neutral terminal strip (optional)	-	-	-	LGYN1007
Catalogue numbers	LGY112510	LGY116013	LGY125014	LGY410028

DB406005_1.eps



On LGY412560 and LGY416048 references.
Input cabling facilitated by side terminals.

Technical data

Common characteristics

In compliance with IEC/EN 60947-7-1 and IEC/EN 61439-1 & 2

Rated insulation voltage (Ui)	500 V AC
Rated operational voltage (Ue)	230 V AC (L/N) 440 V AC (L/L)
Rated impulse withstand voltage (Uimp)	8 kV
Rated conditional short-circuit current of an assembly	Up to the breaking capacity of Schneider Electric feeder circuit breakers, even in cascading configuration
Network frequency	50/60 Hz
Degree of pollution	3
Overvoltage category	III

Additional technical characteristics

Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C
Dielectric withstand (IEC/EN 60947-1)	2500 V AC

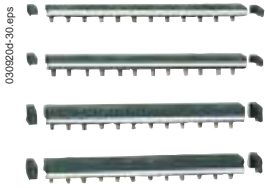
			Neutral terminal strip		
125 A	160 A	100 A	125 A		
4 x 12	4 x 15	4 x 12	7	12	15
1 x Ø9 mm	1 x Ø9.5 mm	1 x Ø12 mm	2 x Ø7.5 mm	1 x Ø9 mm	1 x Ø9.5 mm
7 x Ø7.5 mm	3 x Ø8.5 mm	3 x Ø9 mm	5 x Ø5.5 mm	7 x Ø7.5 mm	3 x Ø8.5 mm
4 x Ø6.5 mm	11 x Ø6.5 mm	8 x Ø7.5 mm	-	4 x Ø6.5 mm	11 x Ø6.5 mm
-	-	-	-	-	-
18 kA	18 kA	22 kA	-	-	-
26 kA	28 kA	36 kA	-	-	-
4.2 kA rms/1 s	4.2 kA rms/1 s	8.4 kA rms/1 s	-	-	-
14	20	18	7	14	17
100 x 126 x 50.5	100 x 162 x 50.5	100 x 174 x 50.5	20 x 70 x 35	20 x 125 x 35	20 x 155 x 35
390	559	567	63	111	149
LGYN12512	LGYN12515	LGYN12512	-	-	-
LGY412548	LGY412560	LGY416048	LGYN1007	LGYN12512	LGYN12515

Terminal technical data

Type	PZ2 screw							
Diameter	ø5.5 mm	ø5.8 mm	ø6 mm	ø6.5 mm	ø7.5 mm	ø8.5 mm	ø9 mm	ø9.5 mm
Section rigid cable	1.5 to 16 mm ²	1.5 to 16 mm ²	1.5 to 16 mm ²	1.5 to 16 mm ²	2.5 to 25 mm ²	6 to 35 mm ²	10 to 35 mm ²	10 to 35 mm ²
Section flexible cable or with ferrule	1.5 to 10 mm ²	1.5 to 10 mm ²	1.5 to 10 mm ²	1.5 to 10 mm ²	1.5 to 16 mm ²	4 to 25 mm ²	4 to 25 mm ²	6 to 35 mm ²
Tightening torque	2 N.m	2 N.m	2 N.m	2 N.m	2 N.m	2 N.m	2.5 N.m	2.5 N.m
Type	HC screw							
Diameter	ø9.5 mm	ø10 mm	ø12 mm		ø15.3 mm			
Section rigid cable	10 to 35 mm ²	1.5 to 50 mm ²	25 to 70 mm ²		35 to 120 mm ²			
Section flexible cable or with ferrule	6 to 35 mm ²	1.5 to 35 mm ²	16 to 50 mm ²		25 to 95 mm ²			
Tightening torque	8 N.m	4 N.m	1P: 9 N.m	4P: 5 N.m	14 N.m			

Linergy FH

Comb busbar for 27 mm pitch for C120, NG125



IEC 60664-1

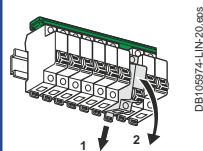
Description

Comb busbars make it easier to install C120 and NG125 circuit breaker.

- Supplied with 2 lateral end-caps, to reinforce copper bars insulating (IP2).
- Allowing circuit identification.
- Easy cut to length thanks to cutting marks on the insulating material and copper bars.

C120, NG125		27 mm poles, cuttable			
Number of poles	1P	2P	3P	4P	
					0393220d-60.eps
	Each com busbar reference includes: ■ 1 x single or 2 pole comb busbar + 8 tooth-caps + 2 side plates ■ 1 x 3 or 4 pole comb busbar + 4 tooth-caps + 2 side plates To insulate teeth that have been left free can be insulated by tooth-caps				
Rated operational current to 40 °C (Ie)	125 A (63 A max by outgoer)				
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of C120 and NG125 circuit breakers				
Rated insulation voltage (Ui)	620 V AC				
Rated voltage (Ue)	500 V AC				
Degree of pollution	3				
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s				
Colour	RAL 7016 (anthracite grey)				
Use					
	Power supply by connector recommended				
Number of 27 mm modules	16	16	15	16	
Set of	1				
Catalogue numbers	14811	14812	14813	14814	

Installation

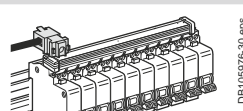
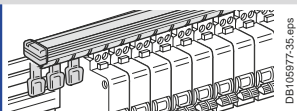


Comb busbars allow dismantability of switchgear.

Accessories

Number of poles		1P, 2P, 3P, 4P	
		PB502505.eps	039321d-15.eps
		Tooth caps	Insulated connector
			Compatible with all Schneider Electric comb busbars Clip onto the comb busbar's insulating material, which gives them very great stability Receive clip-on markers allowing circuit identification
Use			
			For 25 mm ² semi-rigid cable
Set of	20		4
Catalogue numbers	14818		14885

Installation



Linergy FH

Comb busbar for 18 mm pitch for Acti 9

PB00279-30.eps



IEC 60947-7-1, IEC 61439-2

Description

Comb busbars make it easier to install Acti 9 circuit-breakers.

- Can be sawn and cut in a single pass, with a metal saw (the end-caps are compulsory after cutting).
- Supplied with two lateral end-caps to reinforce copper bars insulating (IP2) except for 57 module references. The side plates are compulsory after cutting.
- Easy cut to length thanks to cutting marks on the insulating material and copper bars.
- The phases are identified by symbols on each side of the comb busbar for installation in all positions.
- The special comb busbars for circuit breakers with 9 mm auxiliaries have a 9 mm gap for inserting iOF and iSD.

Acti 9	18 mm poles, cuttable										
Number of poles	1P	2P	3P	4P	3 (N+P)	Aux+1P	Aux+2P	Aux+3P	Aux+4P	3 (Aux+1P)	3 (Aux+N+1P)
Rated operational current at 40 °C (Ie)	100 A										
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Acti 9 circuit breakers										
Rated insulation voltage (Ui)	500 V AC										
Rated voltage (Ue)	415 V AC										
Degree of pollution	3										
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s										
Colour	RAL 7016 (anthracite grey)										

Use											
Power supply by connector recommended											
Type	L1...	L1L2...	L1L2L3...	NL1L2L3...	NL1NL2... ...NL3	AuxL1...	AuxL1L2...	AuxL1L2L3	AuxNL1... ...L2L3	AuxL1... ...AuxL2... ...AuxL3	AuxL1... ...AuxL2... ...AuxL3
Set of	1	1	1	1	1	1	1	1	1	1	1
Catalogue numbers											
6 modules of 18 mm	A9XPH106	-	-	-	-	-	-	-	-	-	-
12 modules of 18 mm	A9XPH112	A9XPH212	A9XPH312	A9XPH412	A9XPH512 ⁽¹⁾	-	-	-	-	-	-
18 modules of 18 mm	-	-	-	-	A9XPH518 ⁽¹⁾	-	-	-	-	-	-
24 modules of 18 mm	A9XPH124	A9XPH224	A9XPH324	A9XPH424	A9XPH524 ⁽¹⁾	-	-	-	-	-	-
57 modules of 18 mm	A9XPH157	A9XPH257	A9XPH357	A9XPH457	A9XPH557 ⁽¹⁾	A9XAH157	A9XAH257	A9XAH357	A9XAH457	A9XAH657	A9XAH557 ⁽¹⁾

⁽¹⁾ This comb busbar is only compatible in top feeding for simple lug devices and bottom feeding on double lug devices.

Installation



PB110260-20.eps



PB110795-20.eps

Accessories

Number of poles	1P	2P	3P	4P	-	-	-	
	Side plates				Tooth covers		Connectors	
	Lateral end-caps providing IP20 protection				To insulate teeth that have been left free		Monoconnect Comb busbar power supply. Horizontal incomer on each side. For 35 mm ² cable. Tightening torque 4 N.m 	
Set of	10	10	10	10	20	4	4	
Catalogue numbers	A9XPE110	A9XPE210	A9XPE310	A9XPE410	A9XPT920	A9XPCM04	A9XPCD04	

Linergy FH

Comb busbar for 18 mm pitch for Acti 9

IEC 60947-7-1, IEC 61439-2

Description

- Comb busbars make it easier to install Acti 9 circuit breakers.
- The phases are identified by symbols on each side of the comb busbar for installation in all positions.



Acti 9	18 mm poles, not cuttable				
	1P	2P	3P	4P	3 (N + P)
Number of poles					
Rated operational current to 40 °C (Ie)	100 A				
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Acti 9 circuit breakers				
Rated insulation voltage (Ui)	500 V AC				
Rated voltage (Ue)	415 V AC				
Degree of pollution	3				
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s				
Colour	RAL 7016 (anthracite grey)				
Use					
Type	Power supply by connector recommended				
Set of	L1	L1L2	L1L2L3	NL1L2L3	NL1NL2NL3
Set of	1	1	1	1	1
Catalogue numbers					
12 modules of 18 mm	A9XPM112	A9XPM212	A9XPM312	A9XPM412	A9XPM512 ⁽¹⁾

Installation



PB110290-25.eps



PB110792-25.eps

Accessories

	PB110257-10.eps	PB110259-7.eps	PB110259-7.eps
	Tooth caps	Connectors	
	To insulate teeth that have been left free	Monoconnect	Double terminals
		Comb busbar power supply	
Use			
		Horizontal in comer on each side For 35 mm ² cable Tightening torque 4 N.m	
Set of	20	4	4
Catalogue numbers	A9XPT920	A9XPCM04	A9XPCD04
Installation			



PB108162-35.eps



PB108164-35.eps

(1) This comb busbar is only compatible in top feeding for simple lug devices and bottom feeding on double lug devices.

IEC 60439-1



Description


Comb busbars ensure:




- Easy, reliable mounting of 1P+N and 3P+N, TL, CT, ID, V, BP and Cm switchgear: tooth positioning opposite the device terminals is ensured by indexing of copper parts.
- C60/ID Group Feeder comb busbars contain two different parts:
 - connection of Group Feeder switchgear: C60 (3P + N) or ID (3P + N) circuit breaker in 18 mm modules, powered by cables, through the bottom, directly by the terminals
 - connection of Acti 9 switchgear in 9 mm modules.

PB502382-70eps



Acti 9 L + N		9 mm poles, cuttable					
Number of poles		1P + N			3P + N		
		 DB123729.eps 21501			 DB123730.eps 21505		
		Complete comb busbars (supplied with 4 side plates and 1 tooth cap)					
Rated operational current to 40 °C (Ie)		80 A					
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Acti 9 C60 and circuit breakers					
Rated insulation voltage (Ui)		440 V AC					
Rated voltage (Ue)		230 V AC (P + N) - 400 V AC (3P + N)					
Rated impulse withstand voltage (Uimp)		6 kV					
Degree of protection		IP20					
Degree of pollution		3					
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C, 30 s					
Colour		RAL 7035					
Number of 18 mm modules	Comb busbar	12	18	24	12	18	24
	Tooth cap	3	3	6	3	3	6
Catalogue numbers		21501	19512	21503	21505	19516	21507
Comb busbars alone							
Number of 18 mm modules	Comb busbar	48			48		
Catalogue numbers		21089			21093		

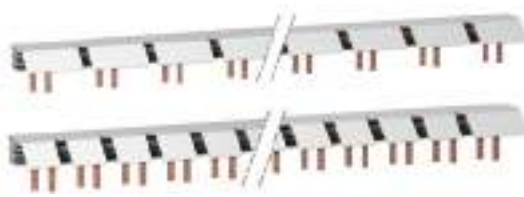
C60/ID Group Feeder comb busbars alone			
Number of poles		3P + N	
		 PB502386-60-eps	
Rated operational current to 40 °C (Ie)		80 A	
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Schneider Electric circuit breakers	
Rated insulation voltage (Ui)		440 V AC	
Rated voltage (Ue)		230 V AC (P + N) - 400 V AC (3P + N)	
Rated impulse withstand voltage (Uimp)		6 kV	
Degree of protection		IP20	
Degree of pollution		3	
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C, 30 s	
Colour		RAL 7035	
Number of 18 mm modules		12	48
Power supply		Through left-hand	Through right-hand
Catalogue numbers		10545	10546

Accessories			
Number of poles	1P + N	3P + N	
	 DB123732.eps	 DB123733.eps	 DB123731.eps
	Side plates	Tooth caps (3 x 18-mm modules)	Tooth caps (1 x 18-mm modules)
Set of	40	12	10
Catalogue numbers	21094	21095	21096
			10405
			21098

Linergy FH

Comb busbar for 9 mm pitch for Acti 9


PE50293-10.eps



IEC 60439-1





Description

- Connection of Clario, Prodis and Libro switchgear in 9 mm modules.
- The special comb busbars for circuit breaker have a gap of 9 mm for inserting OF, SD, OF-SD/OF auxiliaries.
- The comb busbars for 3P + N circuit breakers and auxiliaries are compatible with Prisma switchboard.
- 1P+N comb busbars are compatible with Prisma and Pragma 24.

Acti 9		9 mm poles, cuttable			
Number of poles		1P + N	3P + N	1P + N	3P + N
					
		A9N21036			
		Comb busbars		DPN Vigi comb busbars	
Rated operational current to 40 °C (Ie)		63 A			
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Acti 9 circuit breakers			
Rated insulation voltage (Ui)		500 V AC			
Rated voltage (Ue)		230 V AC (P + N) - 400 V AC (3P + N)			
Degree of protection		IP20			
Degree of pollution		3			
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C, 30 s			
Colour		RAL 7035			
Number of 18 mm modules		56	56	56	56
Catalogue numbers		A9N21035	A9N21036	A9N21037	A9N21038

PE110801-10.eps

Accessories

Number of poles	1P + N	3P + N			
					
	Side plates		Connectors (grey)	Neutral connectors (blue)	Tooth cap (1 x 18 mm module)
Set of	20		10	10	10
Catalogue numbers	A9N21039	A9N21040	A9N21041	A9N21042	A9N21050

PE110804-10.eps

PE110805-10.eps

PE110806-10.eps

PE110807-10.eps

Linergy FH

Horizontal comb busbar for 18 mm pitch for Domae

IEC 60439-1, IEC 60664

Description

Comb busbars:

- Comb busbars ensure: Easy, reliable mounting of 1P+N and 3P+N, TL, CT, ID, V, BP and Cm switchgear: tooth positioning opposite the device terminals is ensured by indexing of copper parts
- Can be sawn and cut in a single pass, with a metal saw (the end-caps are compulsory after cutting).
- Are supplied with 2 (IP20) lateral end-caps (mandatory).
- Teeth that have been left free can be insulated by tooth-caps.

PB101626-30.eps



Domae		18 mm poles, cuttable								
Number of poles		1P	2P	3P	4P	3P (N + P)				
Rated operational current to 40 °C (Ie)		63 A								
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of circuit breakers								
Rated insulation voltage (Ui)		500 V AC								
Rated voltage (Ue)	L/N	230 V AC								
	L/L	400 V AC								
Degree of pollution		3								
Fire resistance to IEC 695-2-1		Auto-extinguible to 850 °C 30 secondes								
Colour		RAL 7035								
Power supply		By 16 mm ² semi-rigid cables or 10 mm ² flexible cables								
		By connector								
Number of 18 mm modules		12	57	12	57	12	57	12	57	57
Catalogue numbers		10387	10388	10389	10390	10391	10392	10393	10394	10395



PB502372.eps

Installation



PB101630_SE-45.eps

Accessories

Type	Connectors (4 x 35 mm ²)	Side plates (2 phases)	Side plates (3 phases)	Side plates (4 phases)	Tooth caps
Set of	1	10	10	10	10
Catalogue numbers	10397	10398	10399	10405	10396



PB502373.eps



PB101632-10.eps



PB502376-40.eps



PB110688-25.eps

Lineryg FH

Horizontal biconnect comb busbar for 18 mm pitch



IEC 60664-1

Description

- Distribution and sub-distribution of the electric power supply.
- Fast assembly and disassembly of connected devices.

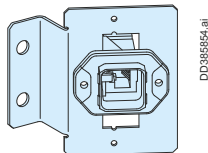
Peigne biconnexion horizontal	18 mm poles, cuttable											
Number of poles	1P			2P			3P			4P		
Rated operational current to 40 °C (Ie)	63 A											
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of circuit breakers											
Rated insulation voltage (Ui)	500 V AC											
Rated voltage (Ue) L/N	230 V AC											
L/L	400 V AC											
Degree of pollution	3											
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s											
Colour	RAL 7035 (grey)											
Use	Power supply: directly on terminal (25 mm ² rigid or 16 mm ² flexible) or by connector (35 mm ² rigid or 25 mm ² flexible with ferrule)											
Type	L1			L1L2			L1L2L3			L1L2L3L4		
Number of 18 mm modules	12	18	57	12	18	57	12	18	57	12	18	57
Set of	1	1	1	1	1	1	1	1	1	1	1	1
Catalogue numbers	R9XFH112	R9XFH118	R9XFH157	R9XFH212	R9XFH218	R9XFH257	R9XFH312	R9XFH318	R9XFH357	R9XFH412	R9XFH418	R9XFH457

Installation	

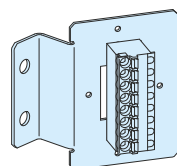
Comb busbars horizontal bi-connection	18 mm poles, cuttable		
Number of poles	4P		
Rated operational current to 40 °C (Ie)	63 A		
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Schneider Electric circuit breakers		
Rated insulation voltage (Ui)	500 V AC		
Rated voltage (Ue) L/N	230 V AC		
L/L	400 V AC		
Degree of pollution	3		
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s		
Colour	RAL 7035 (grey)		
Use	NL1L2L3L4 - NL1NL2NL3		
Type	NL1L2L3L4 - NL1NL2NL3		NL1NL2NL3
Number of 18 mm modules	18	18	57
Set of	1	1	1
Catalogue numbers	R9XFH518G	R9XFH518	R9XFH557

Installation			

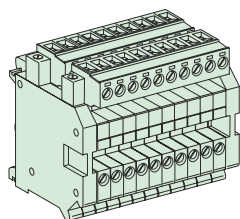
Accessories						
Number of poles	1P	2P	3P	4P		
	Side plates				Tooth caps	Connectors
Set of	10				20	4
Catalogue numbers	R9XE110	R9XE210	R9XE310	R9XE410	R9XT20	R9XFC04



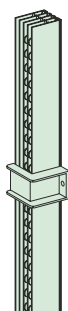
DD384854.ai



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DB406327.epss

Connectors

For plug & play interconnection between electrical switchboard for control and communication wires.

RJ45 female connector with mounting plate

Connector type	8 wires RJ45; 1 Gbps
For ethernet cable	CAT5e SFTP (IEC 11801) or higher
Degree of protection	IP67 for direct mount
Dimensions (H x W x D)	(mm) 75 x 70 x 45
Catalogue number	LGY4230

8P male-female connector with mounting plate

Rated operational current at 40 °C (Ie)	12 A
Rated operational voltage (Ue)	320 V
Rated impulse withstand voltage (Uimp)	4 kV
Connection method	Push-in spring connection
Connection capacity	Input 8 Output 8
Dimensions (H x W x D)	(mm) 75 x 70 x 45
Wire size	0.2 to 2.5 mm ²
Catalogue number	LGY4231

Terminal block

For distributing auxiliary voltages in power and regulation equipment.

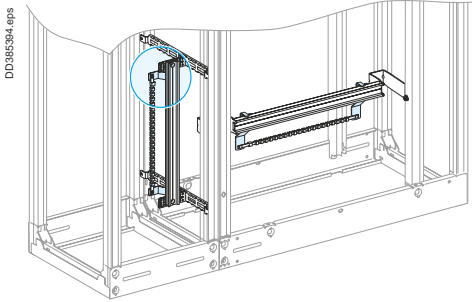
Terminal block for auxiliary wiring

Standards	IEC	UL
Rated operational current at 40 °C (Ie)	12 A	20 A
Rated operational voltage (Ue)	250 V AC	300 V AC
Rated impulse withstand voltage (Uimp)	4 kV	
Connection capacity	Input 10 (grey) Output 2 x 10 (grey)	
Dimensions (H x W x D)	(mm) 61 x 48 x 45	
Wire size	0.2 to 2.5 mm ²	
Tightening torque	0.5 to 0.6 N.m	
Composition	3.5 18-mm modules	
Catalogue number	04228	

Bus duct

Four-pole auxiliary bus duct

	Duct for 4 conductors
	166 tap-off points with Faston connectors, per linear meter
Rated operational current at 40° (Ie)	32 A
Rated insulation voltage (Ui)	660 V AC
Width (mm)	1755
Composition	Supplied with 2 end clamps and 1 lateral clamp for mounting on cable-tie supports
Catalogue number	04203

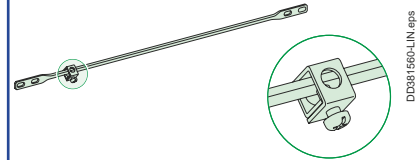


Description

This range of earth bars is installed:

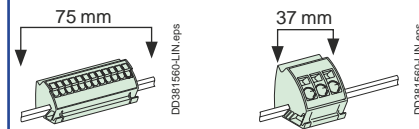
- in the duct which can constitute a dedicated area, completely separate from the equipment
- or in the switchgear compartment, at the top or the bottom .

Fast-connecting earth bar



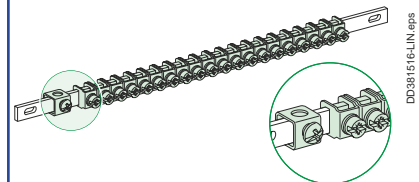
	Copper earth bar
Cross-section (mm)	12 x 3
Effective length (mm)	330
Total length (mm)	450
Composition	Copper bar with 1 terminal 16 to 35 mm ²
Catalogue numbers	04201

Accessories



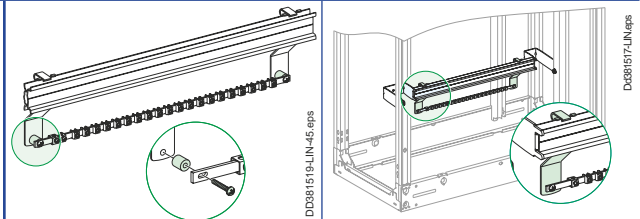
	Earth blocks with terminals	
	Spring-fixing (clip onto the earth bar)	
Total connection capacity	12 x 4 mm ²	3 x 16 mm ²
Composition	4 earth blocks	4 earth blocks
Catalogue numbers	04214	04215

Accessories



	Copper earth bar with jumper	
Total connection capacity	40 x 2.5 to 16 mm ²	20 x 2.5 to 16 mm ²
Cross-section (mm)	12 x 3	12 x 3
Length (mm)	450	200
Composition	40 jumpers and a terminal (16 to 35 mm ²)	20 jumpers and a terminal (16 to 35 mm ²)
Catalogue numbers	04200	04202

Accessories



	Neutral bar	Earth bar
	Converts an earth bar to a neutral bar	
Composition	2 insulating spacers	2 supports for earth bar on modular rail
Catalogue numbers	04210	04205

PE conductor							
	Vertical PE conductor with Linergy LGY profile (W = 1670 mm)			Vertical PE conductor with Linergy BS busbar (W = 1675 mm)		Horizontal PE conductor with Linergy BS busbar	
Rated short-time current (I _{sc})	≤ 65	> 65... ≤ 80	= 100	≤ 40	> 40	≤ 40	> 40
Permissible current (A)	630	800	1250				
Bar size (mm)				25 x 5	50 x 5	25 x 5	50 x 5
Characteristics				Drilled flat bar ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)		
Catalogue numbers	04502	04503	04505	04512	04515	04512	04515

Support selection			
Composition	Three supports for one vertical PE (supplied with PE marking) to secure to the framework		Two supports for one horizontal PE
Catalogue numbers	04657		04667

Connection between PE conductors		
	Connection plates for horizontal/vertical PE bars	Linergy connection hardware
Composition	2 copper angle brackets	20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars
Catalogue numbers	04672	04766

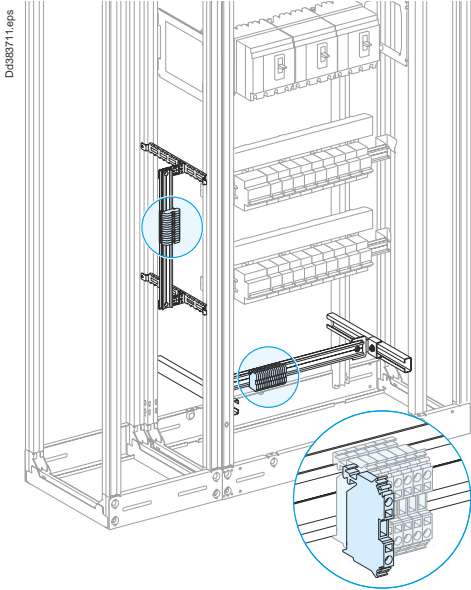
PEN conductor		
	Linergy TB PEN installation kit with LGY vertical profile	1600 A connection 10 mm horizontal busbar with Linergy LGY profile
Catalogue numbers	04656	04636
		Linergy LGYE vertical connection 1600 A
Catalogue numbers		04602

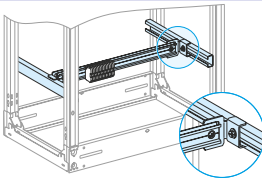
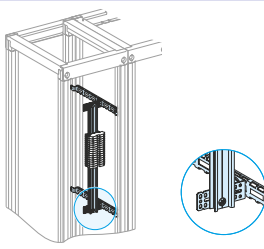
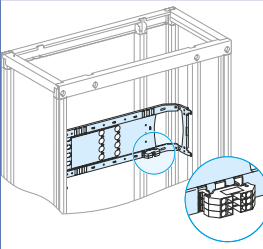
Note: for further details, see page D-7.

Linergy TB terminal block support

Introduction

In Prisma P cubicles, terminal blocks are commonly installed in a lateral compartment, generally 300 or 400 mm wide. They may also be installed at the top or bottom of the cubicle.



	Installation at top or bottom of a cubicle	Installation in a lateral compartment	Installation on a device mounting plate
			
Modular rail, depth adjustable (W = 432 mm)	03402	-	-
2 modular rails W = 1600 mm	04226	04226	-
2 universal angle brackets	03581	03581	-
Set of two lateral cross-members W = 400 mm	03584	-	-
Characteristics	Terminal blocks are grouped on modular rails that can be depth adjusted behind a plain front plate.	The terminal block is generally installed in the cable compartment, W = 300 or 400 mm. The terminal blocks clip onto a modular rail. The rail is secured to cable-tie supports using universal angle brackets for precise positioning of the terminal blocks.	Terminal blocks can be directly installed on the mounting plates for horizontally mounted Compact NSX100/630 and vertically mounted Compact NS630b/1600 for connection of auxiliary wires.

Width of standard terminal blocks




Max. cable CSA (mm ²)	4	6	10	16
Width of terminal block (mm)	6	8	10	12

Height required in switchboard

Max. cable CSA (mm ²)	4	6	10	16
No. of vertical modules	3	3	5	6
Plain front plate	03803	03803	03805	03806



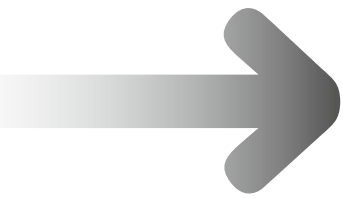


			Connection technology					
Type of terminal block	Max. cable CSA	Colour	Screw tech 	Spring tech 	Push-in tech 	Miniature screw for 15 mm DIN rail	Miniature spring for 15 mm DIN rail	Miniature spring for direct mount
Passthrough	2.5 mm ² (2 pts)	Grey	NSYTRV22	NSYTRR22	NSYTRP22	NSYTRV22M	NSYTRR22M	NSYTRR22MF
		Blue	NSYTRV22BL	NSYTRR22BL	NSYTRP22BL	NSYTRV22MBL	NSYTRR22MBL	NSYTRR22MFBL
		Orange	NSYTRV22AR	NSYTRR22AR	NSYTRP22AR	-	-	NSYTRR22MFF*
	2.5 mm ² (3 pts)	Grey	-	NSYTRR23	NSYTRP23	-	-	-
		Blue	-	NSYTRR23BL	NSYTRP23BL	-	-	-
		Orange	-	NSYTRR23AR	NSYTRP23AR	-	-	-
	2.5 mm ² (4 pts, 1 level)	Grey	-	NSYTRR24	NSYTRP24	-	-	NSYTRR24M
		Blue	-	NSYTRR24BL	NSYTRP24BL	-	-	NSYTRR24MBL
	2.5 mm ² (4 pts, 2 levels)	Grey	NSYTRV24D	NSYTRR24D	NSYTRP24D	-	-	-
		Blue	NSYTRV24DBL	NSYTRR24DBL	NSYTRP24DBL	-	-	-
	4 mm ² (2 pts)	Grey	NSYTRV42	NSYTRR42	NSYTRP42	NSYTRV42M	-	-
		Blue	NSYTRV42BL	NSYTRR42BL	NSYTRP42BL	NSYTRV42MBL	-	-
		Orange	NSYTRV42AR	NSYTRR42AR	-	-	-	-
	4 mm ² (3 pts)	Grey	NSYTRV43	NSYTRR43	NSYTRP43	-	-	-
		Blue	NSYTRV43BL	NSYTRR43BL	NSYTRP43BL	-	-	-
		Orange	-	-	-	-	-	-
	4 mm ² (4 pts, 1 level)	Grey	NSYTRV44	NSYTRR44	NSYTRP44	-	-	-
		Blue	NSYTRV44BL	NSYTRR44BL	NSYTRP44BL	-	-	-
	4 mm ² (4 pts, 2 levels)	Grey	NSYTRV44D	NSYTRR44D	-	-	-	-
		Blue	NSYTRV44DBL	NSYTRR44DBL	-	-	-	-
6 mm ² (2 pts)	Grey	NSYTRV62	NSYTRR62	-	-	-	-	
	Blue	NSYTRV62BL	NSYTRR62BL	-	-	-	-	
10 mm ² (2 pts)	Grey	NSYTRV102	NSYTRR102	-	-	-	-	
	Blue	NSYTRV102BL	NSYTRR102BL	-	-	-	-	
16 mm ² (2 pts)	Grey	NSYTRV162	NSYTRR162	-	-	-	-	
	Blue	NSYTRV162BL	NSYTRR162BL	-	-	-	-	
150 mm ² (2 pts)	Grey	NSYTRV1502BB	-	-	NSYTRV22MPE	NSYTRR22MPE	-	
Earth protection	2.5 mm ² (2 pts)	Green	NSYTRV22PE	NSYTRR22PE	NSYTRP22PE	-	-	-
	2.5 mm ² (3 pts)	Green	-	NSYTRR23PE	NSYTRP23PE	-	-	-
	2.5 mm ² (4 pts)	Green	-	NSYTRR24PE	NSYTRP24PE	-	-	-
	4 mm ² (2 pts)	Green	NSYTRV42PE	NSYTRR42PE	NSYTRP42PE	NSYTRV42MPE	-	-
	4 mm ² (3 pts)	Green	NSYTRV43PE	NSYTRR43PE	NSYTRP43PE	-	-	-
	4 mm ² (4 pts)	Green	NSYTRV44PE	NSYTRR44PE	NSYTRP44PE	-	-	-
	6 mm ² (2 pts)	Green	NSYTRV62PE	NSYTRR62PE	-	-	-	-
	10 mm ² (2 pts)	Green	NSYTRV102PE	NSYTRR102PE	-	-	-	-
16 mm ² (2 pts)	Green	NSYTRV162PE	NSYTRR162PE	-	-	-	-	
Knife Disconnect	2.5 mm ² (2 pts)	Grey	NSYTRV42ST ⁽¹⁾	NSYTRR22SC	NSYTRP22SC	-	-	-
		Orange	NSYTRV42STAR ⁽¹⁾	NSYTRR22SCAR	-	-	-	-
	2.5 mm ² (3 pts)	Grey	-	NSYTRR23SC	NSYTRP23SC	-	-	-
		Orange	-	NSYTRR23SCAR	-	-	-	-
2.5 mm ² (2 levels)	Grey	NSYTRV42SCD ⁽¹⁾	NSYTRR24SCD	-	-	-	-	
Fuse Disconnect	4 mm ² (2 pts) 5 x 20 mm fuse	Noir	NSYTRV42SF5	-	-	-	-	-
		Noir (12 V)	NSYTRV42SF5LD ⁽²⁾	-	-	-	-	-
		Noir	NSYTRV42SF5LA ⁽²⁾	-	-	-	-	-
Basic Disconnect ⁽³⁾	4 mm ² (2 pts)	Grey	NSYTRV42TB	NSYTRR22TB	NSYTRP42TB	-	-	-
Measuring transducer	6 mm ² (2 pts) Disconnect	Grey/Orange	NSYTRV62TTD	-	-	-	-	-
		Grey	NSYTRV62TT	-	-	-	-	-
		Green	NSYTRV62TTPE	-	-	-	-	-

* Grey terminal with flange. ⁽¹⁾ 4 mm² terminal, with 2 test points.
⁽²⁾ With light indicator.
⁽³⁾ Fuse or component carrier not supplied.



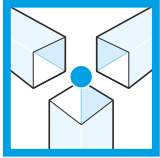
Connection technology	Accessories				
	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters
NSYTRR22MP	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22	NSYTRAB510
NSYTRR22MPBL	NSYTRAC22BL	NSYTRACR22BL	NSYTRACR22BL	NSYTRAL23	NSYTRAB520
-	-	-	-	NSYTRAL24	NSYTRAB530
-	-	NSYTRACR23	NSYTRACR23	NSYTRAL25	NSYTRAB540
-	-	NSYTRACR23BL	NSYTRACR23BL	NSYTRAL210	NSYTRAB550
-	-	-	-	NSYTRAL210BL	...
NSYTRR24MP	-	NSYTRACR24	NSYTRACR24	NSYTRAL210GR	NSYTRAB590
NSYTRR24MPBL	-	NSYTRACR24BL	NSYTRACR24BL	NSYTRAL220	NSYTRAB5100
-	NSYTRACE24	NSYTRACRE24	NSYTRACRE24	-	NSYTRAB51100
-	-	-	-	-	-
-	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42	NSYTRAB610
-	NSYTRAC22BL	-	-	NSYTRAL43	NSYTRAB620
-	-	-	-	NSYTRAL44	NSYTRAB630
-	NSYTRAC23	NSYTRACR43	NSYTRACP43	NSYTRAL45	NSYTRAB640
-	-	-	-	NSYTRAL410	NSYTRAB650
-	-	-	-	NSYTRAL410BL	...
-	NSYTRAC24	NSYTRACR44	NSYTRACP44	NSYTRAL410GR	NSYTRAB690
-	NSYTRACE24	NSYTRACRE44	-	NSYTRAL420	NSYTRAB6100
-	-	-	-	-	NSYTRAB61100
-	NSYTRAC22	NSYTRACR62	-	NSYTRAL62	NSYTRAB810
-	NSYTRAC22BL	-	-	NSYTRAL610	NSYTRAB820
-	NSYTRAC22	NSYTRACR102	-	NSYTRAL102	NSYTRAB1010
-	NSYTRAC22BL	-	-	-	NSYTRAB1020
-	NSYTRAC162	NSYTRACR162	-	NSYTRAL162	NSYTRAB1010
-	-	-	-	-	NSYTRAB1020
-	NSYTRAC952	-	-	NSYTRAL1502	-
-	NSYTRAC22	NSYTRACR22	NSYTRACR22	-	-
-	-	NSYTRACR23	NSYTRACR23	-	-
-	-	NSYTRACR24	NSYTRACR24	-	-
-	NSYTRAC22	NSYTRACR42	NSYTRACR42	-	-
-	NSYTRAC23	NSYTRACR43	NSYTRACP43	-	-
-	NSYTRAC24	NSYTRACR44	NSYTRACP44	-	-
-	NSYTRAC22	NSYTRACR62	-	-	-
-	NSYTRAC22	NSYTRACR102	-	-	-
-	NSYTRAC162	NSYTRACR162	-	-	-
-	Included	NSYTRACR23	NSYTRACPK22	-	-
-	Included	-	-	-	-
-	-	NSYTRACR24	NSYTRACPK23	-	-
-	-	-	-	-	-
-	NSYTRACE24	Included	-	-	-
-	Included	-	-	-	-
-	Included	-	-	-	-
-	Included	-	-	-	-
-	NSYTRACT22	NSYTRACR23	NSYTRACR42	-	-
-	NSYTRACT22	-	-	-	-
-	NSYTRACT22	-	-	-	-
-	NSYTRACT22	-	-	-	-



Prisma functional system

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 P 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.

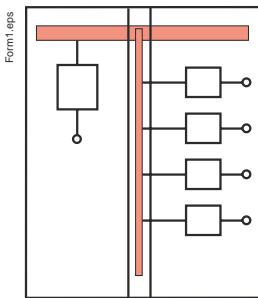
The protection of life and property is a standard feature due to:

- 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 Interpact 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 P offers different levels of partitioning to create separations inside the cubicles and thus create Form 2, 3 and 4 electrical switchboards.

Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 60439-1.

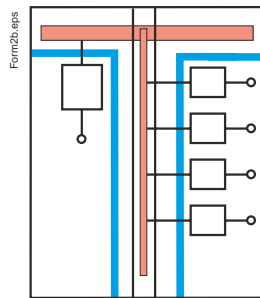
Form 1



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

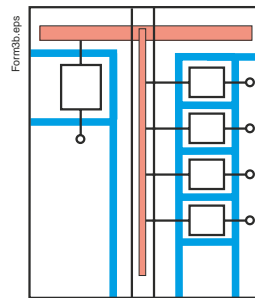
- Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard. The protection of life and property is a standard feature due to:
 - the systematic installation of terminal shields on the incoming device
 - and covering of the upstream and downstream terminals.

Form 2b



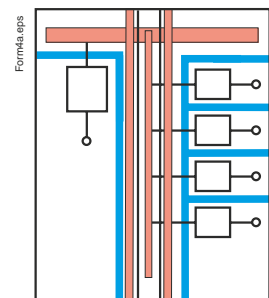
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

Form 3b



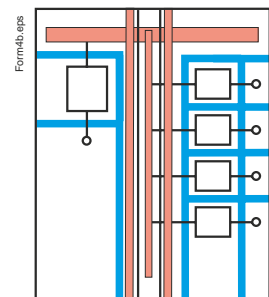
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

Form 4a



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

Form 4b



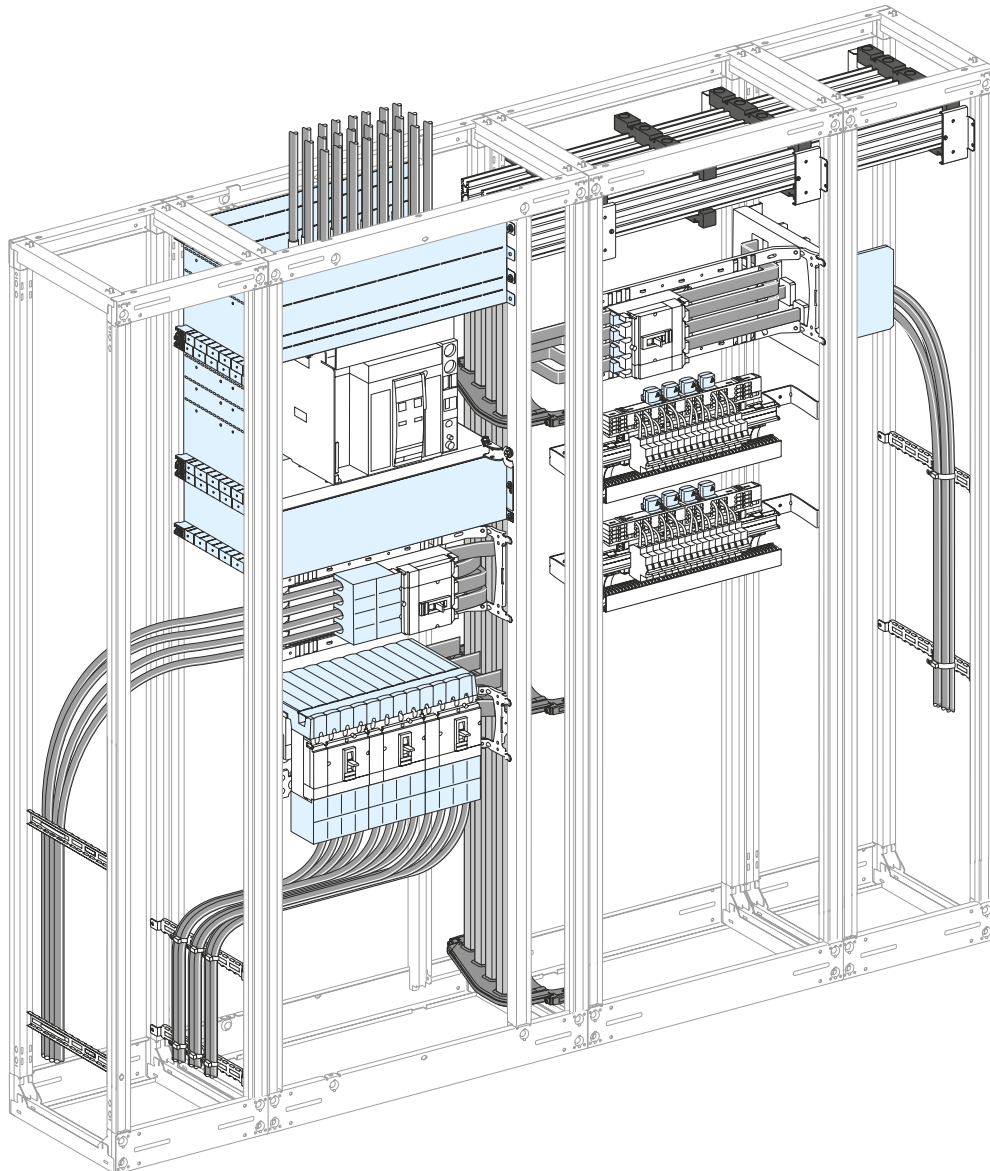
- Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.



Presentation

Covering of upstream and downstream terminals on all devices

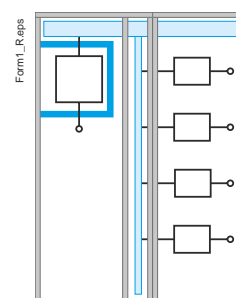
DD384565.eps



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
- > 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).

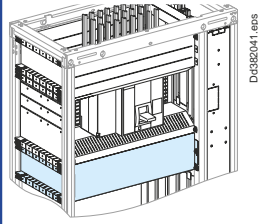
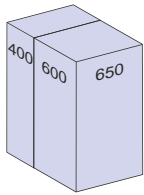
Form 1



Form 1 partitioning

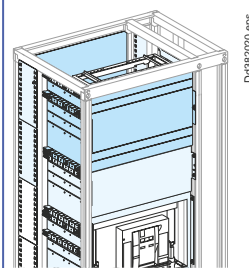
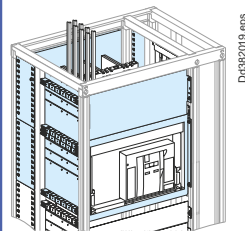
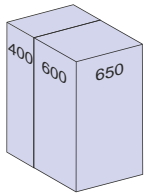
Covering the supply terminals on the incoming device

Covering of the connection between an incoming device and lateral busbars



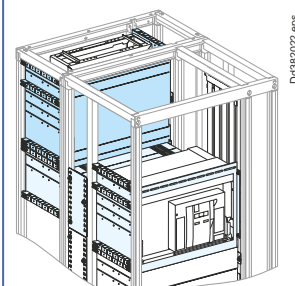
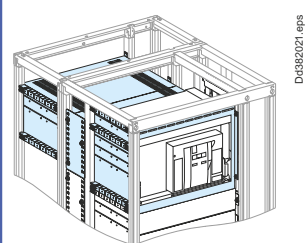
	Masterpact NW	Masterpact NT	Compact NS630b/1600	Compact NS1600b/3200 ⁽¹⁾	Compact INS-INV630b/2500
Cover with copper connection	04926	04926	04926	04926	04926
Additional cover	04927	-	-	-	-
Cover with Linergy LGYE connection	04925	04925	-	-	-
Additional cover	04928	-	-	-	-

Front connection with cables | Canalis front connection



Devices	Fixed or withdrawable device		Fixed	With-drawable	Fixed or withdrawable device		Fixed	With-drawable
	Masterpact NW08/32	NT06/16	Compact NS630b/1600	NS630b/1600	Masterpact NW08/32	NT06/16	Compact NS630b/1600	NS630b/1600
Cover	04861	04852	04851	04852	04861	04852	04851	04852
Canalis additional cover	-	-	-	-	04871	04871	04871	04871

Rear connection with cables | Canalis rear connection



Devices	Fixed or withdrawable device		Fixed	With-drawable	Fixed or withdrawable device		Fixed	With-drawable
	Masterpact NW08/32	NT06/16	Compact NS630b/1600	NS630b/1600	Masterpact NW08/32	NT06/16	Compact NS630b/1600	NS630b/1600
Cover	04863	04854	04853	04854	04863	04854	04853	04854
Canalis additional cover	-	-	-	-	04871	04871	04871	04871

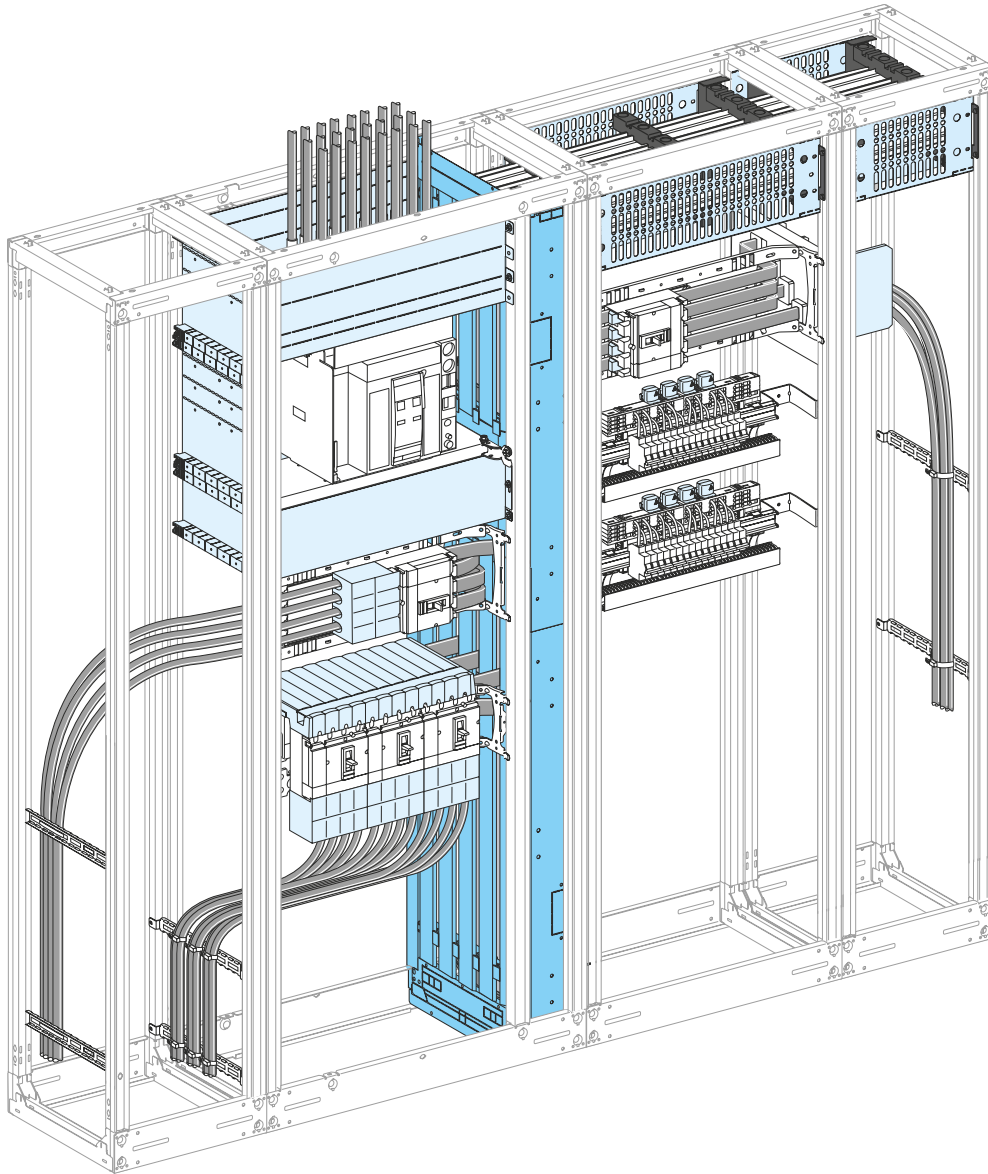
(1) For more information, see page A-18.



Presentation

Separation of busbars from the functional units

DD394428 eps



Form 2b partitioning is essential to ensure excellent protection for the installation and operators working in the switchboard.

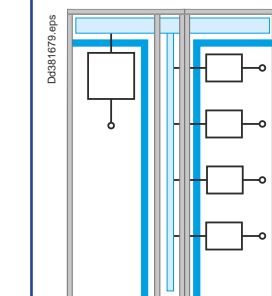
- > Protection against contact with live parts upstream of the outgoing circuits
- > Protection against penetration of foreign solid bodies.

When added to standard protection features (terminal shields, prefabricated connections, etc.), it eliminates the risk of direct contacts with live parts.

+ Security

- > In Form 2b, the terminals are separated from the busbars.

Form

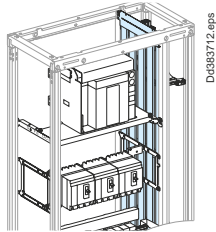
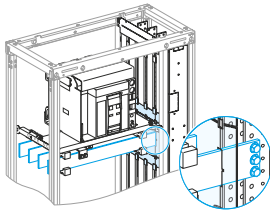
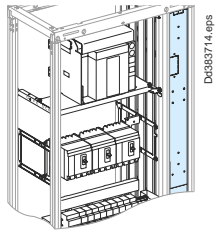
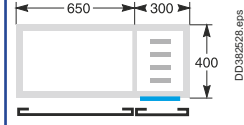


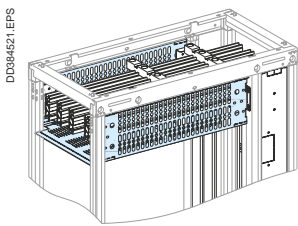
2b

Main distribution

Lateral partitioning

- Made of:
 - four supports that clip to the framework
 - five extruded slats that clip to the supports
 - two metal plates at the top and bottom that can be cut out to pass a PE or PEN conductor, or one or two 30 x 60 mm trunking sections
- Compliance with standard IEC 695.2.1 concerning withstand to fire.

	Side barrier	Restoration kit	Front or rear barrier	
				
			W = 150 mm	W = 300 mm
Characteristics	<ul style="list-style-type: none"> ■ Vertical barrier made of insulating slats ■ can be installed on both sides of Linergy BS or Linergy LGY 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 	<ul style="list-style-type: none"> ■ 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 high = 300 mm) that can be cut as required, supplied with supports and the necessary hardware. ■ Has to be use with NW interlocking mounting plate 	<p>Can be installed in the front and rear of the busbar compartment. Protects against direct contact with the busbars.</p> <p>This barrier is not required in front when the cubicle is equipped with a plain or transparent door.</p> <ul style="list-style-type: none"> □ For 800 mm cubicles : <ul style="list-style-type: none"> □ the door is systematically supplied with a barrier. □ the cover frame is supplied with a wicket door, W = 150 mm, on which devices can be mounted. A front barrier is indispensable. ■ A barrier is required at the rear of the busbar compartment in cubicles that are 600,800 and 1000 mm deep. 	
Catalogue number	04922	04924	04921	04920



Horizontal partitioning

- 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.

		Linergy LGYE				Linergy BS			
		Top position		Bottom position		Top position		Bottom position	
		In	≤ 2500 A	≥ 3200 A	≤ 2500 A	≥ 3200 A	≤ 3200 A	4000 A	≤ 3200 A
Nb of module			3	4	3	4	3	4	3
D400									
Cover	W = 300		04973	04963	04973 + 04915	04963 + 04915	04973	04963	04973 + 04915
	W = 400		04974	04964	04974 + 04915	04964 + 04915	04974	04964	04974 + 04915
	W650		04976	04966	04976 + 04919	04966 + 04919	04976	04966	04976 + 04919
	W650 + 150		04976	04966	04976 + 04919	04966 + 04919	04976	04966	04976 + 04919
	W800		04978	04968	04978 + 04919	04968 + 04919	04978	04968	04978 + 04919
D400									
Cover	W = 300		04983	04963	04983 + 04915	04963 + 04915	04983	04963	04983 + 04915
	W = 400		04984	04964	04984 + 04915	04964 + 04915	04984	04964	04984 + 04915
	W650		04986	04966	04986 + 04919	04966 + 04919	04986	04966	04986 + 04919
	W650 + 150		04986	04966	04986 + 04919	04966 + 04919	04986	04966	04986 + 04919
	W800		04988	04968	04988 + 04919	04968 + 04919	04988	04968	04988 + 04919

Note: when the busbars are at the bottom of the cubicle, gland plates are mandatory, see page C-17.

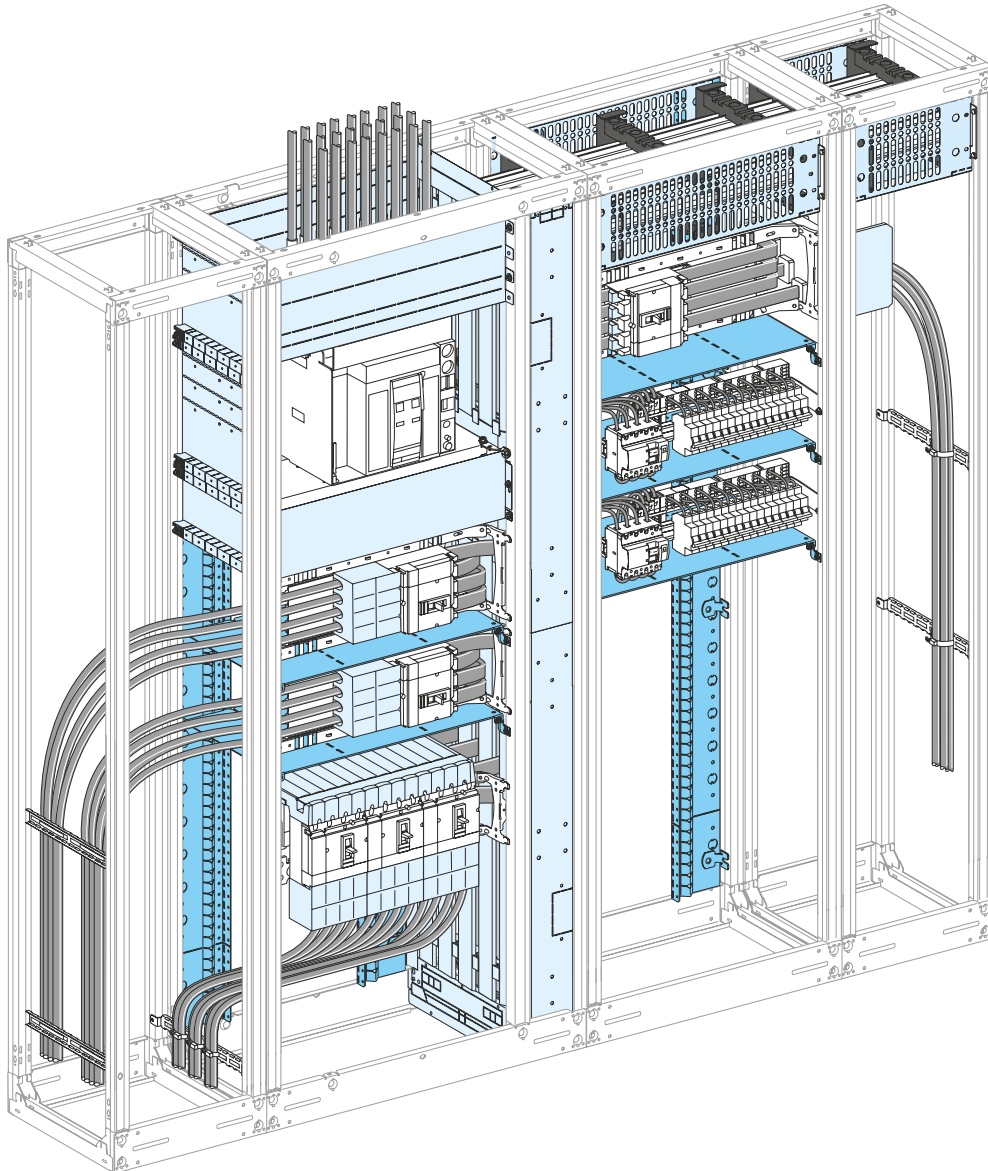
Note: to protect horizontal busbars installed at the bottom of the cubicle, the slotted horizontal panel must be replaced by a plain barrier.(04915 or 04919) and add a free support 04662.



Presentation

Separation of the functional units from one another + separation of the terminals for external conductors from the functional units

DD384527.eps



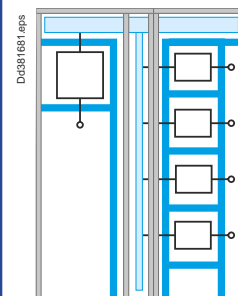
Form 3b partitioning is essential to ensure excellent protection for the installation and operators working in the switchboard.

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

+ Security

- > In Form 3b, the terminals are separated from the busbars.

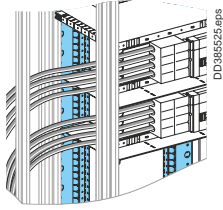
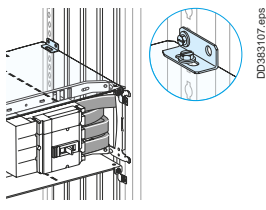
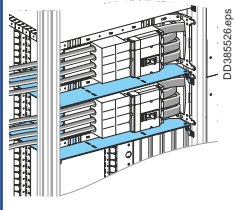
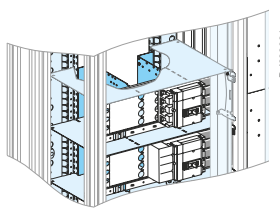
Form



DD381681.eps

3b

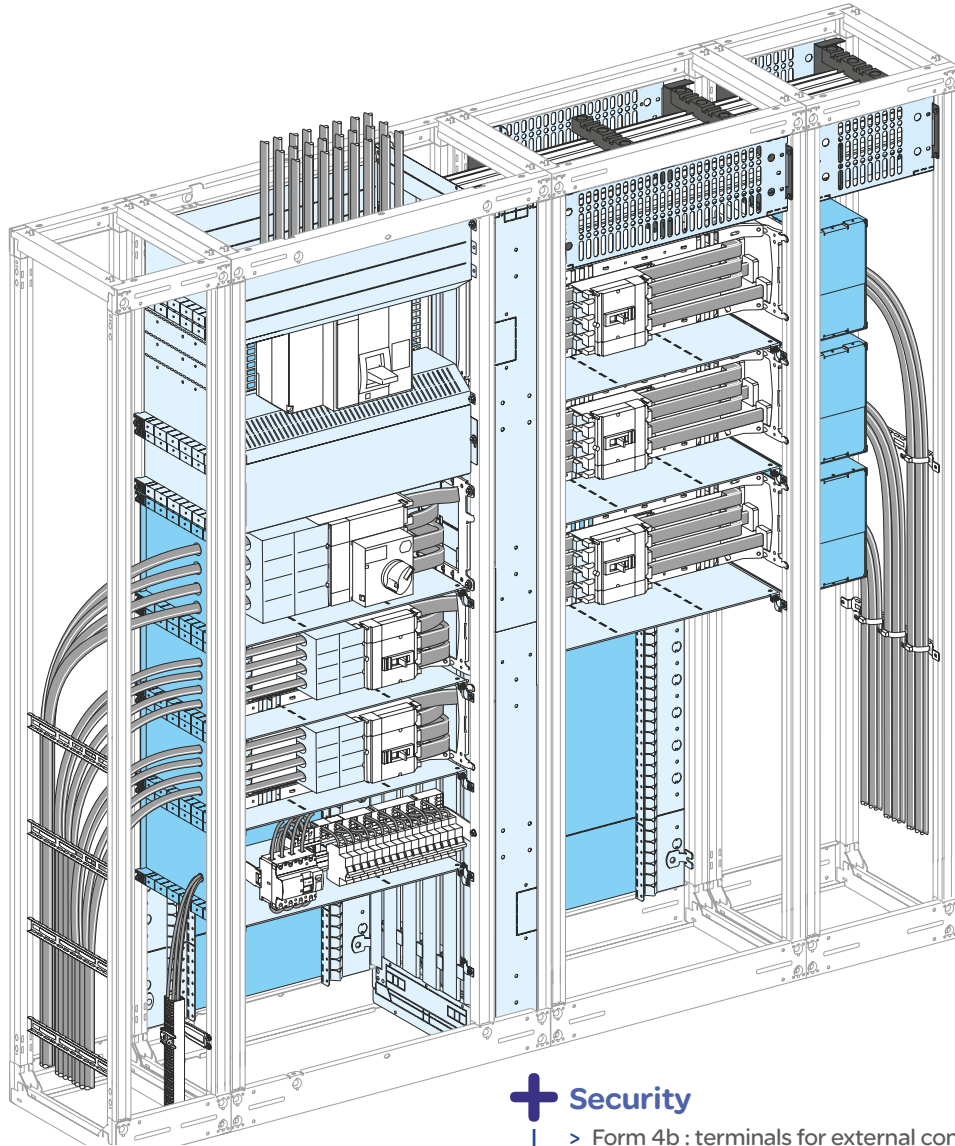
Form 3 partitioning

	Front connection			Rear connection				
								
	Rear support for partitions W = 650 mm	6 universal angle brackets	Horizontal metal partition W = 650 mm	Rear connection				
Characteristics	Two uprights secured to the framework (400 mm deep) or to the intermediate uprights (600 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.	A horizontal metal partition can be used to physically separate functional units from one another. It does not take up any useful space in the switchboard.	Vertical partitions (two cat. no. per functional unit)				
Catalogue numbers	04943	03583	04901	<table border="1"> <tr> <td>3 to 4 modules</td> <td>5 to 6 modules</td> </tr> <tr> <td>04955</td> <td>04956</td> </tr> </table>	3 to 4 modules	5 to 6 modules	04955	04956
3 to 4 modules	5 to 6 modules							
04955	04956							

★ Presentation

Separation of busbars from the functional units + separation of all functional units from one another + terminals for external conductors

DD84425.eps



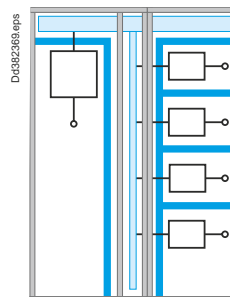
Form 4 partitioning is essential to ensure excellent protection for the installation and operators working in the switchboard.

- > protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- In addition to partitioning of the main busbars (Form 2) and installation of the horizontal partitions between functional units (Form 3), the cubicle must be equipped with:
- > Form 4 gland plates to achieve Form 4a
 - > Form 4 covers for connection transfer assemblies to achieve Form 4b.

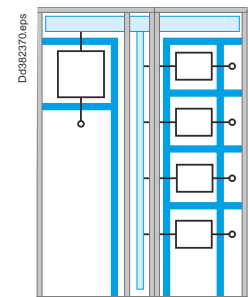
+ Security

- > 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



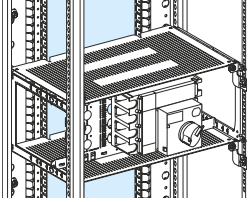
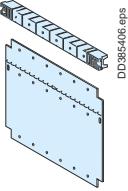
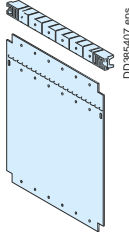
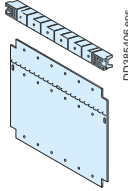
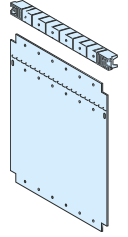
4a



4b

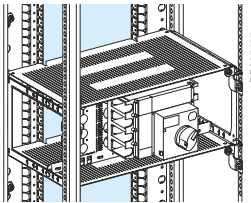
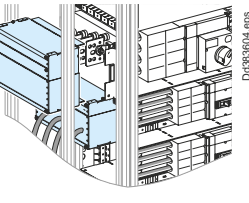
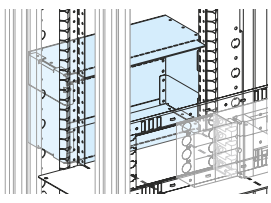
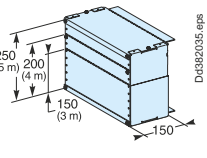
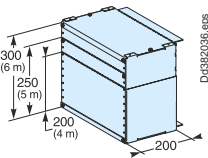
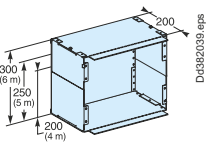
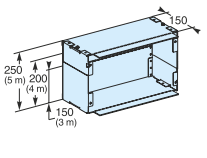
Form 4a partitioning

Forme 4 - direct connection to the device

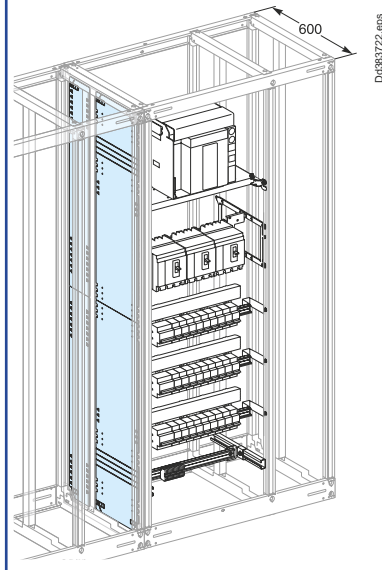
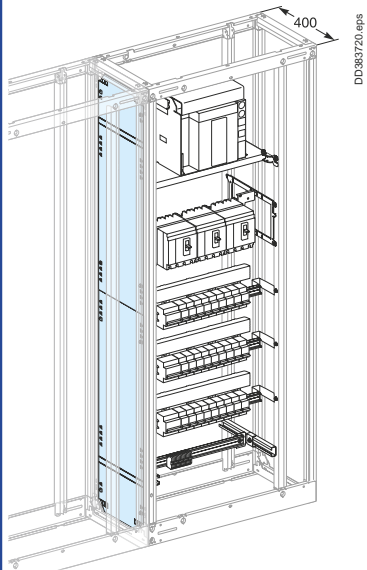
	Front connection		Rear connection	
				
				
	Backplate	Gland plate		
Characteristics	<ul style="list-style-type: none"> a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks 	<ul style="list-style-type: none"> a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework. 		<ul style="list-style-type: none"> a gland plate at the rear of each functional unit. It is connected directly to the rear supports for Form 3 partitions
		3 to 4 modules	5 to 6 modules	
Catalogue numbers	04946	04951	04952	04951 04952

Form 4b partitioning

Forme 4b - connection transfer

	In a lateral compartment	At the rear of the cubicle		
				
				
				
	Backplate	Cover		
Characteristics	<ul style="list-style-type: none"> 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 400 mm deep frameworks 	<ul style="list-style-type: none"> a cover with plastic gland plates that can be easily cut out on the side and bottom. 		<ul style="list-style-type: none"> It comprises two height-adjustable metal flanges and plastic gland plates that can be easily cut out at the rear and bottom.
		3 to 5 modules W150	4 to 6 modules W200	
Catalogue numbers	04946	04953	04954	04953 04954

Inter-cubicle partition



D400

D600

<p>Characteristics</p>	<p>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 busbars, PE/PEN conductors or auxiliary wiring. Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.</p>	
<p>Catalogue numbers</p>	<p>04911</p>	<p>04911 + 04931</p>

Prisma P enclosures

Enclosures

IP30/31/55 cubicles Presentation	C-2
Cover panels	C-8
Cubicles	
Frameworks	C-11
IP30/31 cover panels	C-13
IP55 cover panels	C-15
Plinth	C-17
Cubicle handling and rolling base, Lifting reinforcement kit for combined cubicles, Right-angle kit	C-18
Installation accessories	C-19
Front plate accessories	C-20
Enclosure accessories	
Door handles and locks	C-21
Ventilation accessories	C-22
Panel installation	C-23
Roof installation	C-25
Heat	C-26
Regulating	C-27

Dimensions

Cubicles	C-28
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IP30/31/55 cubicles Presentation

Carefully designed in every detail, Prisma P cubicles are the solution for all common switchboard configurations up to 4000 A.

A reduced number of catalogue numbers facilitates selection, while offering the essential functions such as:

- multiple combination possibilities
- an array of interchangeable cover panels and doors, IP30 or IP55, without adding gaskets
- total accessibility to all connection points in the switchboard
- wide cable compartments
- high for large capacity (36 modules, each 50 mm high).

The discreet design, with simple lines and oval shapes in the RAL 9001 colour, mean Prisma P cubicles blend in naturally on all commercial and industrial sites.

They offer 36 modules, each 50 mm high, of useful space.

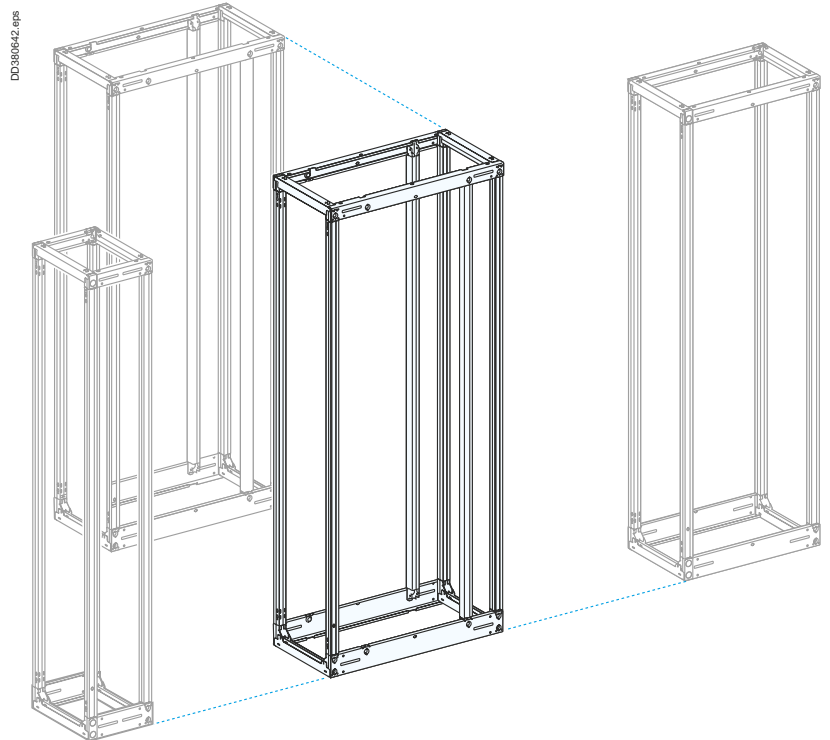
They comply with standard IEC 62208.

PB115606_100_eps

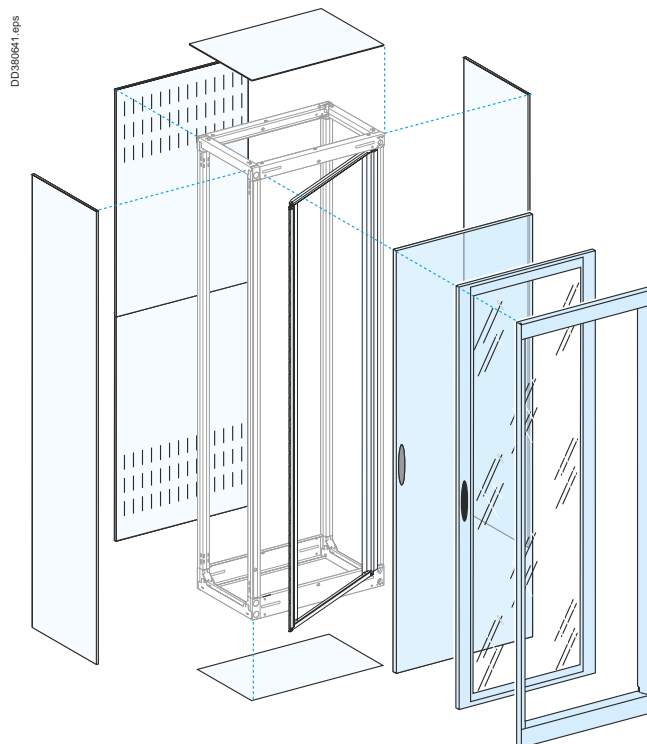


All cover panels and doors (IP30 or IP55) are secured using quarter-turn fasteners. Electrical continuity is achieved naturally, without having to add clips or earthing braids.

IP30/31/55 cubicles Presentation



Frameworks can be combined side-by-side or back-to-back to create all switchboard configurations up to 4000 A.



Front plates are installed on a frame that can pivot on the framework.

The front can be:

- a plain door (IP30/55)
- a transparent door (IP30/55)
- a cover frame (IP30).

IP30/31/55 cubicles Presentation

PD390573R.eps



Cross-pieces can be removed to facilitate work.

The framework

The framework is both light and rigid due to the closed sections used for the uprights. The compact design of the framework means there is 15% more space available for devices. There are no sharp edges.

Assembly is particularly fast with only 12 screws, all directly accessible. Uprights have wing holes every 25 mm. A measuring tape can be hooked to a slot marking the starting point for measurements on the heights required to mount devices. Marks every 50 mm and double marks every 100 mm make it easy to count modules. The floor fixing kit can also be used to level the cubicles.

PD390574R.eps



Only 12 screws, all directly accessible, are required for assembly.

PD390575R.eps



Marks make it easy to count the vertical modules.

PD390576R.eps



The floor fixing kit can also be used to level the cubicles.

PB115613_065.eps



By pivoting, the front plate support frame provides direct access to devices.

The front plates are equipped with clip-mount grips with a built-in quarter-turn fastening system for fast handling and installation. The lead-sealing function is directly integrated in the grip mechanism.

Hinged front plate support frame

This frame provides direct and fast access to the devices. It is reversible and has two factory-mounted hinges. Only two screws are required to secure it to the framework.

IP30/31/55 cubicles Presentation

Doors

Both plain and transparent doors are reversible and designed for quick and easy left or right-hand mounting by a single person.

The factory-mounted hinges are secured on quarter-turn studs. The one-piece handle clips firmly into place.

All connection points are located on the front of the uprights and do not take up any useful space for devices.

For 800 mm wide cubicles, the doors are supplied with a 150 mm wide barrier to block access to the busbars.

A wide range of locks are available for the "push and pull" handle.



A discreet, user-friendly handle.

Rear panels

The IP30 panels are made up of two identical and interchangeable half panels that are easy to handle.

They are flat to occupy minimum of floor space.

Vents ensure natural ventilation of the switchboard.

The IP55 panels are reinforced (IK10) and have positioning studs to facilitate mounting.

Side panels

They are easy to handle given their ergonomic design and rounded edges. Mounting is guided at the base by hooking onto special studs.

Similar to all the cover panels, the side panels are rapidly secured by quarter-turn fasteners.



Vented IP30 panels.

Roof

The roof panel is flat for passage under all doorways and includes four holes for the lifting rings.

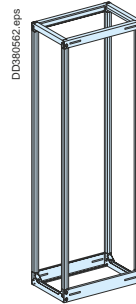
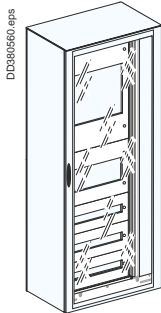
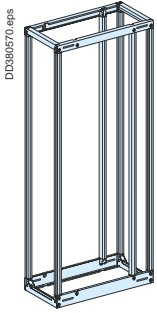
The lifting rings can be installed and removed without removing the roof.



The lifting rings can be installed without removing the roof.

IP30/31/55 cubicles Presentation

D400 frameworks (depth 400 mm)



W = 300/400

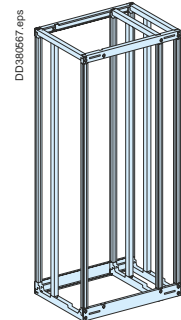
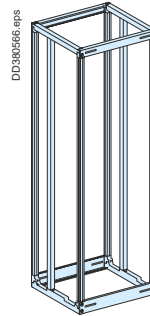
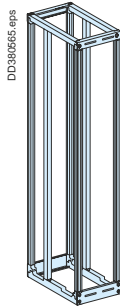
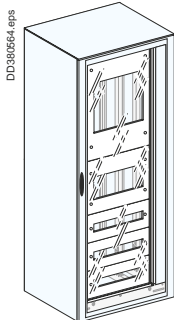
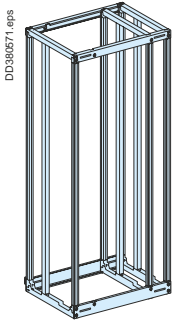
W = 650/800

W = 800 with a busbar compartment

Dimensions of cubicle with cover panels

Height	2006 mm (capacity = 36 modules, each 50 mm high)
Width	width of the framework + 56 mm
Depth	450 mm with screw-on rear panel + front door 476 mm with front and rear doors

D600 frameworks (depth 600 mm)



W = 300/400

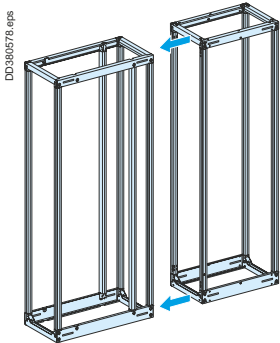
W = 650/800

W = 800 with a busbar compartment

Dimensions of cubicle with cover panels

Height	2006 mm (capacity = 36 modules, each 50 mm high)
Width	width of the framework + 56 mm
Depth	650 mm with screw-on rear panel + front door 676 mm with front and rear doors

Framework combinations

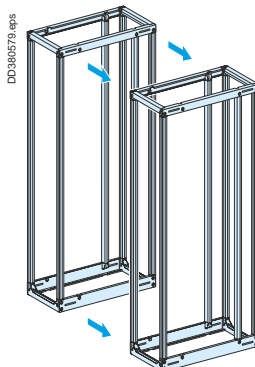


Side-by-side

The 650 and 800 mm wide frameworks are supplied with a combination kit. To maintain the IP55 degree of protection, an optional gasket must be installed between the combined cubicles.

Back-to-back

An optional kit for back-to-back combinations is available. It is used to mechanically connect the frameworks. It is supplied with a gasket to be installed between the cubicles (for IP55).



IP30/31/55 cubicles Presentation

Cover panels

Front panels

- for frameworks 650 and 800 mm wide.
- Any of the following can be installed in front of the hinged front plate support frame:
 - a plain door (IP30 or IP55)
 - a transparent door (IP30 or IP55)
 - a cover frame (IP30)
- for frameworks 300 and 400 mm wide.
- A plain door is used (IP30 or IP55).

Rear panels

- The rear panel can be made up of:
 - two parts for IP30 panels
 - one reinforced part for IP55 panels.
- A plain door can also be used, notably for switchboards with rear connections (800 and 1000 mm deep).

Side panels

- A set of two panels is used (IP30 or IP55).
- If frameworks are installed back to back (double depth), two sets of two panels are required.

Roof

- There is a plain roof (IP30 or IP55) for each size of framework.

Gland plates

- They are mandatory, whatever the desired degree of protection for the switchboard.
- For each size of framework, there are plain gland plates (IP55) or two-part gland plates (IP30).

Degree of protection

IP30 switchboard

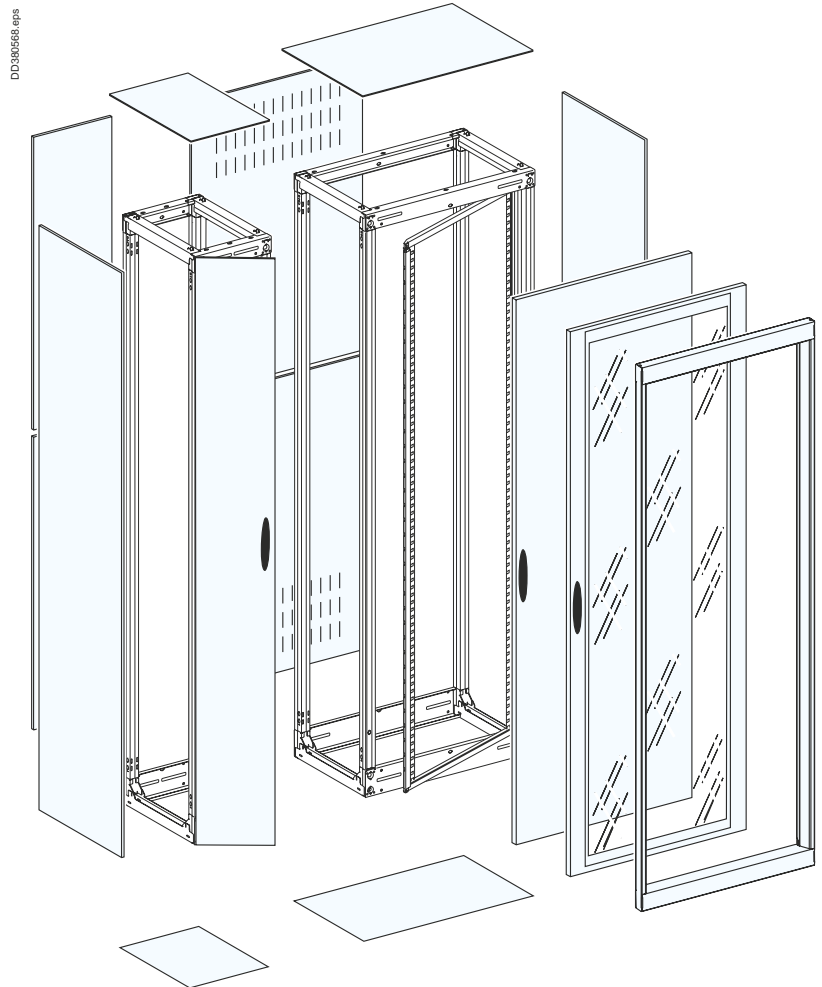
- Use:
 - the IP30 cover panels with a door or cover frame
 - IP30 plain roof
 - gland plates (plain or in two parts).

IP31 switchboard

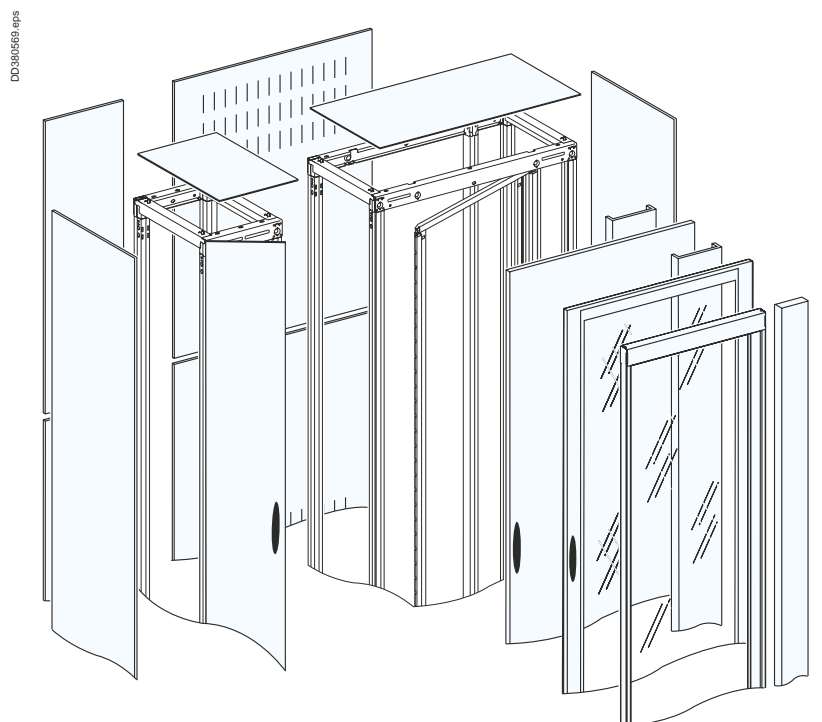
- Use:
 - the IP30 cover panels with a door
 - IP30 plain roof
 - IP31 sealing kit
 - gland plates (plain or in two parts).

IP55 switchboard

- Use:
 - the IP55 cover panels with a door
 - IP55 plain roof
 - plain gland plates.
- If frameworks are combined, use the IP55 sealing kit for side-by-side combinations.



Prisma P cubicle, $W = 650 \text{ mm} + \text{cable compartment, } W = 300 \text{ mm}$.



Prisma P cubicle, $W = 800 \text{ mm} + \text{cable compartment, } W = 300 \text{ mm}$.

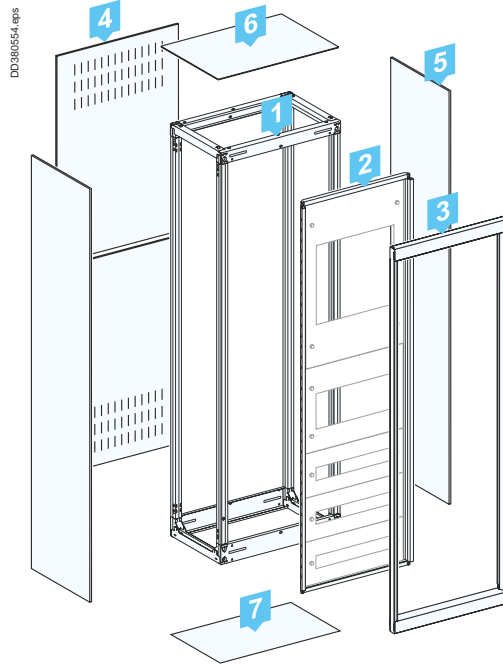
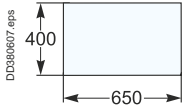
400 mm deep switchboard

For switchboards with front connections.

- front panels
- Any of the following can be installed in front of the hinged front plate support frame:
 - a transparent door (IP30 or IP55)
 - a plain door (IP30 or IP55)
 - a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

Parts list for switchboard 1

- 1 08406: framework, W = 650, D = 400, H = 2000
- 2 08566: front plate support frame, W = 650
- 3 08576: cover frame, W = 650
- 4 08736: rear panel, W = 650 (two half panels)
- 5 08750: set of two side panels, D = 400
- 6 08436: plain roof, W = 650, D = 400
- 7 08486: plain gland plate, W = 650, D = 400



Switchboard 1 - IP30 cubicle with cover frame, W = 650.

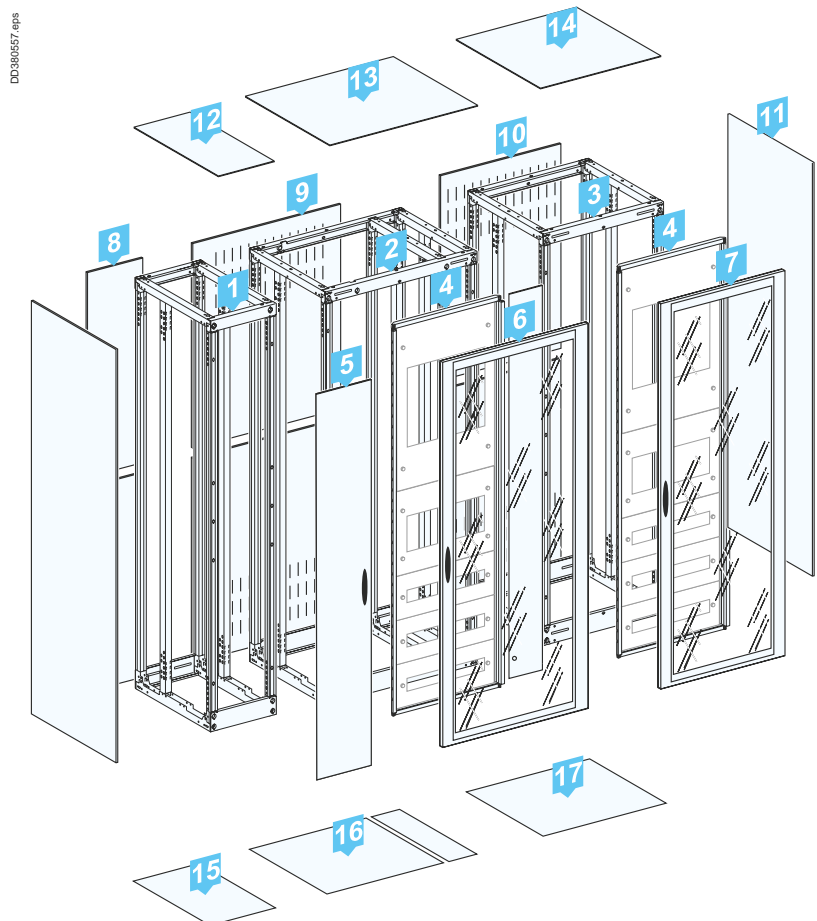
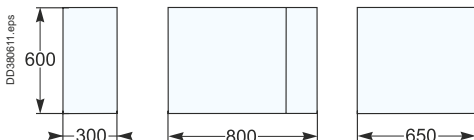
600 mm deep switchboard

For switchboards with front connections.

- front panels
- Any of the following can be installed in front of the hinged front plate support frame:
 - a transparent door (IP30 or IP55)
 - a plain door (IP30 or IP55)
 - a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

Parts list for switchboard 2

- 1 08603: framework, W = 300, D = 600, H = 2000
- 2 08607: framework, W = 800, D = 600, H = 2000
- 3 08606: framework, W = 650, D = 600, H = 2000
- 4 08566: front plate support frame, W = 650
- 5 08513: plain door, W = 300
- 6 08538: transparent door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 08536: transparent door, W = 650
- 8 08733: rear panel, W = 300 (two half panels)
- 9 08738: rear panel, W = 800 (two half panels)
- 10 08736: rear panel, W = 650 (two half panels)
- 11 08760: set of two side panels, D = 600
- 12 08633: plain roof, W = 300, D = 600
- 13 08638: plain roof, W = 800, D = 600
- 14 08636: plain roof, W = 650, D = 600
- 15 08683: plain gland plate, W = 300, D = 600
- 16 08687: plain gland plate, W = 800, D = 600
- 17 08686: plain gland plate, W = 650, D = 600.



Switchboard 2 - combination of IP30 cubicles with transparent doors.

800 mm deep switchboard

Made up of two cubicles back-to-back.

Rear connections are possible.

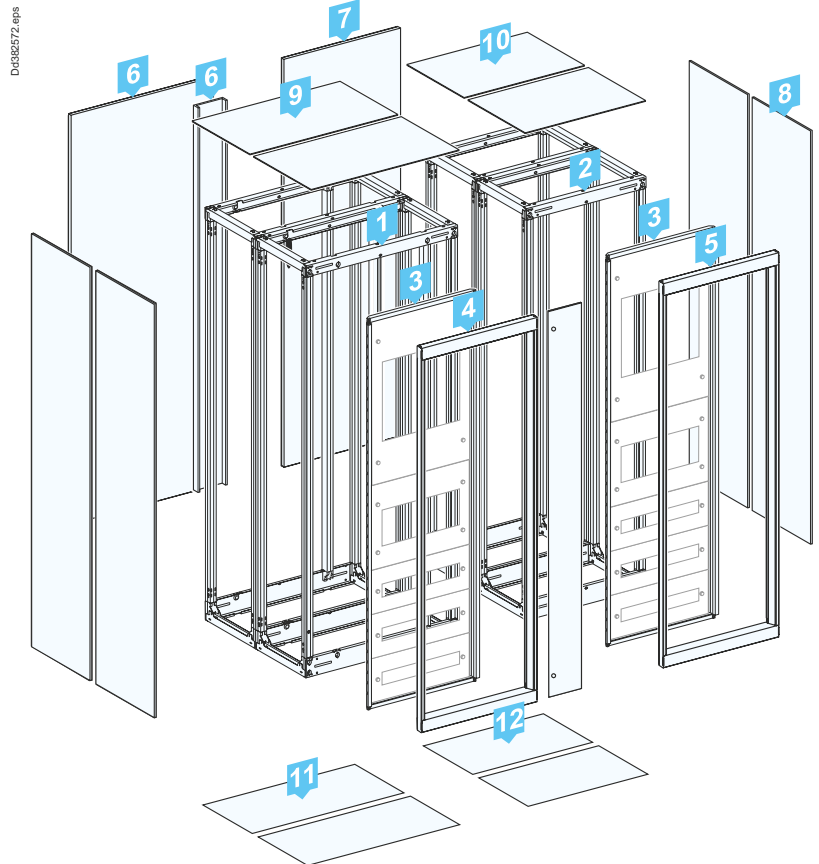
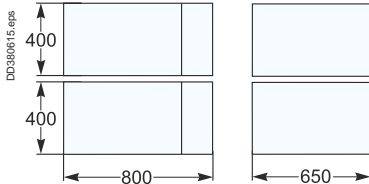
■ front panels

Any of the following can be installed in front of the hinged front plate support frame:

- a transparent door (IP30 or IP55)
- a plain door (IP30 or IP55)
- a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

Parts list

- 1** 08407 x 2 : 2 frameworks, W = 800, D = 400, H = 2000
- 2** 08406 x 2 : 2 frameworks, W = 650, D = 400, H = 2000
- 3** 08566: front plate support frame, W = 650
- 4** 08578: fixed cover frame, W = 800
(supplied with a wicket door, W = 150)
- 5** 08576: cover frame, W = 650
- 6** 08518: plain door, W = 800
(supplied with barrier for busbar compartment, W = 150)
- 7** 08516: plain door, W = 650
- 8** 08750 x 2 : 2 sets of two side panels D = 400
- 9** 08438 x 2 : 2 plain roofs, W = 800, D = 400
- 10** 08436 x 2 : 2 plain roofs, W = 650, D = 400
- 11** 08487 x 2 : 2 plain gland plate, W = 800, D = 400
- 12** 08486 x 2 : 2 plain gland plate, W = 650, D = 400
- 08719 x 2 : double depth combination kit



Combination of IP30 cubicles with cover frames.

1000 mm deep switchboard

Made up of two cubicles back-to-back.
Rear connections are possible.

■ front panels

Any of the following can be installed in front of the hinged front plate support frame:

- a transparent door (IP30 or IP55)
- a plain door (IP30 or IP55)
- a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

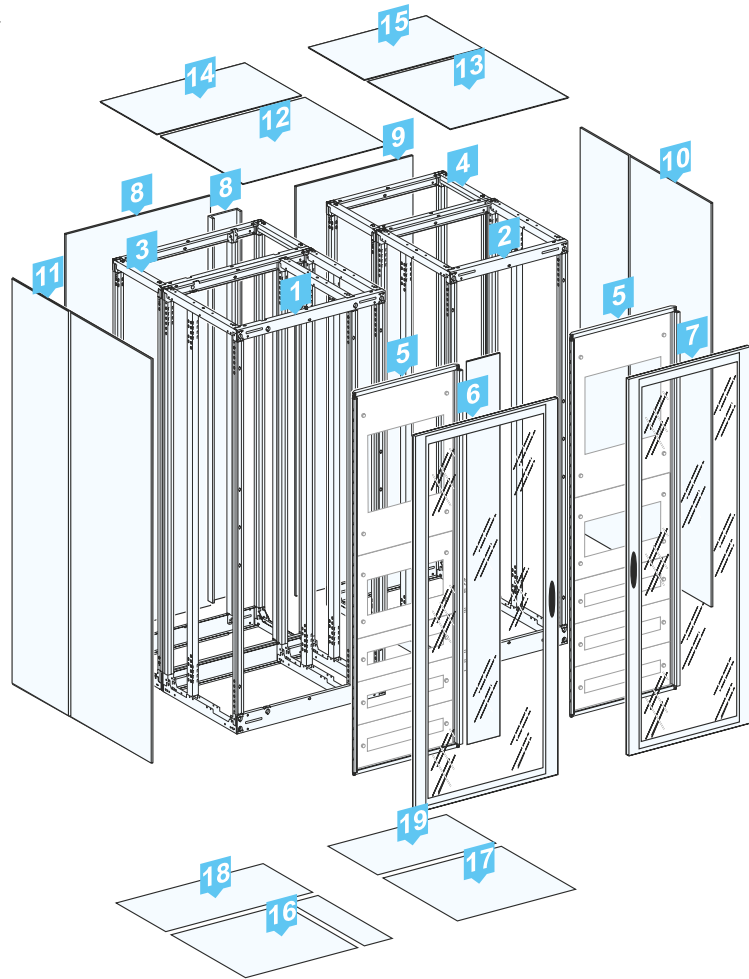
Parts list for switchboard IP30

- 1 **08607:** framework, W = 800, D = 600, H = 2000
- 2 **08606:** framework, W = 650, D = 600, H = 2000
- 3 **08407:** framework, W = 800, D = 400, H = 2000
- 4 **08406:** framework, W = 650, D = 400, H = 2000
- 5 **08566:** front plate support frame, W = 650
- 6 **08538:** transparent door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 **08536:** transparent door, W = 650
- 8 **08518:** plain door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 9 **08516:** plain door, W = 650
- 10 **08760:** set of two side panels, D = 600
- 11 **08750:** set of two side panels, D = 400
- 12 **08638:** plain roof, W = 800, D = 600
- 13 **08636:** plain roof, W = 650, D = 600
- 14 **08438:** plain roof, W = 800, D = 400
- 15 **08436:** plain roof, W = 650, D = 400
- 16 **08687:** plain gland plate, W = 800, D = 600
- 17 **08686:** plain gland plate, W = 650, D = 600
- 18 **08487:** plain gland plate, W = 800, D = 400
- 19 **08486:** plain gland plate, W = 650, D = 400
- 08719: double depth combination kit

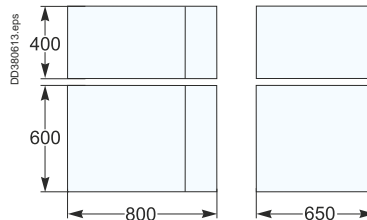
Parts list for switchboard IP55

- 1 **08607:** framework, W = 800, D = 600, H = 2000
- 2 **08606:** framework, W = 650, D = 600, H = 2000
- 3 **08407:** framework, W = 800, D = 400, H = 2000
- 4 **08406:** framework, W = 650, D = 400, H = 2000
- 5 **08566:** front plate support frame, W = 650
- 6 **08548:** transparent door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 **08546:** transparent door, W = 650
- 8 **08528:** plain door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 9 **08526:** plain door, W = 650
- 10 **08765:** set of two side panels, D = 600
- 11 **08755:** set of two side panels, D = 400
- 12 **08658:** plain roof, W = 800, D = 600
- 13 **08656:** plain roof, W = 650, D = 600
- 14 **08458:** plain roof, W = 800, D = 400
- 15 **08456:** plain roof, W = 650, D = 400
- 16 **08687:** plain gland plate, W = 800, D = 600
- 17 **08686:** plain gland plate, W = 650, D = 600
- 18 **08487:** plain gland plate, W = 800, D = 400
- 19 **08486:** plain gland plate, W = 650, D = 400
- 08717 x 2: IP55 sealing kit for side-by-side combinations
- 08719 x 2: double depth combination kit




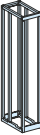


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Combination of cubicles with transparent doors.



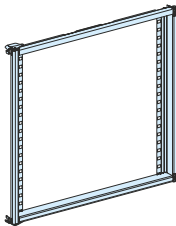
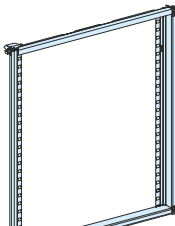
Cubicles Frameworks

Mounting	Frameworks										
											
Width (mm)	300	400	650	800	800 (650 + 150)	300	400	650	800	800 (650 + 150)	
	Depth 400 mm					Depth 600 mm					
Cat. no.	08403	08404	08406	08408	08407	08603	08604	08606	08608	08607	
Composition	2 frames									3 frames	
	-				+ 2 additional uprights	equipped with intermediate uprights for the mounting plates					
	<ul style="list-style-type: none"> ■ 4 cross-pieces. ■ Mounting hardware. ■ Framework combinations 										
Characteristics	<ul style="list-style-type: none"> ■ Cubicles can be combined side-by-side and back-to-back. ■ Can be equipped with IP30 or IP55 cover panels. <p><i>Note: for the 800 mm width, the busbar compartment can be on the left or right</i></p>										

Mounting	Hinged front plate support frame	
		
Width (mm)	400	650
Cat. no.	08564	08566
Characteristics	<ul style="list-style-type: none"> ■ Reversible for left or right-hand opening. ■ Secured at two points. <p><i>Note: can be mounted on 650 mm and 800 mm (650 + 150) wide cubicles.</i></p>	

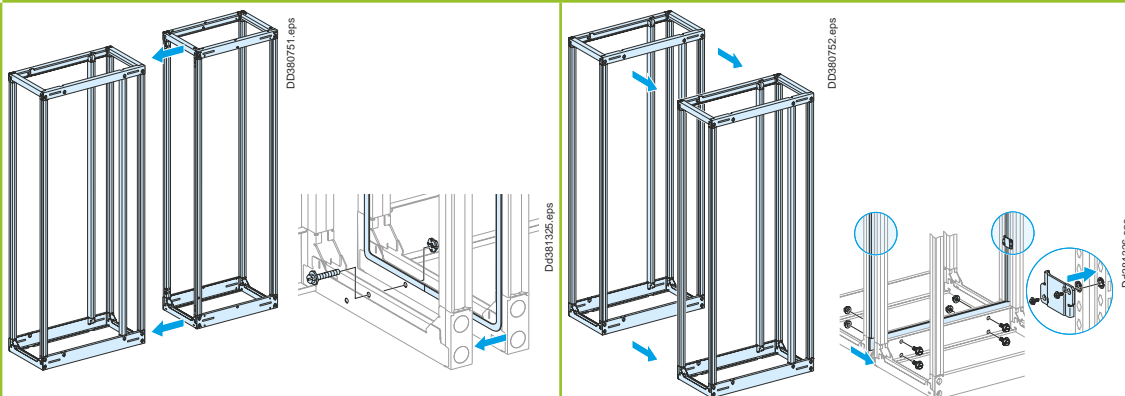
Partial hinged cover-frame supports

See [page A-12](#).

Mounting	Partial hinged cover-frame supports	
		
Width (mm)	650	
	10 modules	12 modules
Cat. no.	08560	08562
Characteristics	<ul style="list-style-type: none"> ■ For drawout Masterpact NW, when hinged front plate support frame is left-hand opening. 	<ul style="list-style-type: none"> ■ Use for Fupact ISFL configurations. ■ For drawout Masterpact NW, when hinged front plate support frame is left-hand opening.

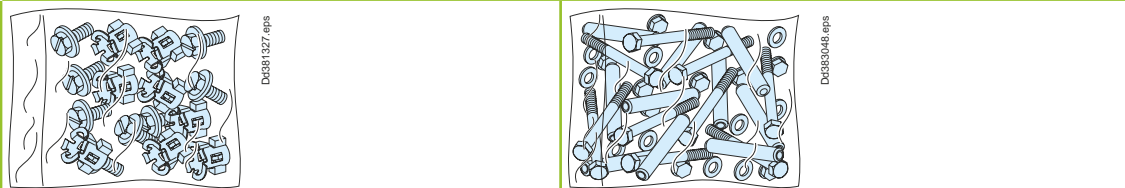
Cubicles Frameworks

Framework combinations



Type	Side-by-side IP55 sealing kit	Back-to-back Double depth combination kit
Cat. no.	08717	08719
Characteristics	The 650 and 800 mm wide frameworks are supplied with a combination kit comprising six M6 bolts. To maintain the IP55 degree of protection, an optional gasket must be installed between the combined cubicles.	The kit is made up of: <ul style="list-style-type: none"> ■ a set of hardware for the mechanical connections between the cross-pieces ■ two assembly plates to connect the uprights ■ the IP55 sealing kit.

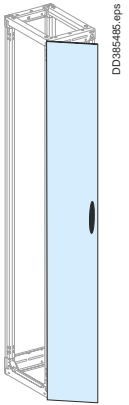
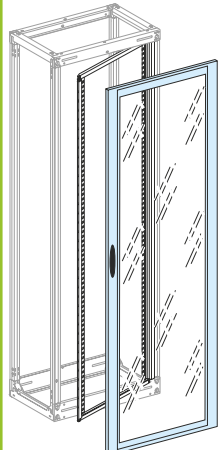
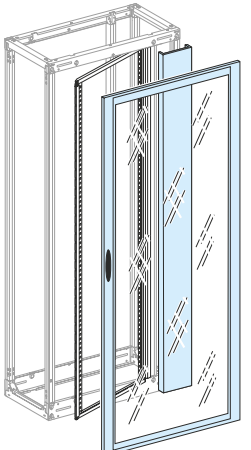
Accessories

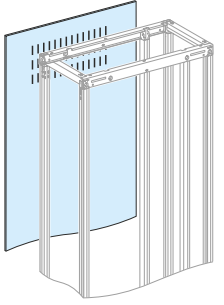
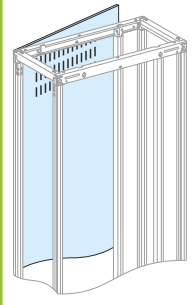


Type	Hardware Fixing screws and nuts	
Cat. no.	08921	08718
Characteristics	Set of 20 screws + wing nuts for framework	Set of 10 screws + combination accessories

Cubicles

IP30/31 cover panels

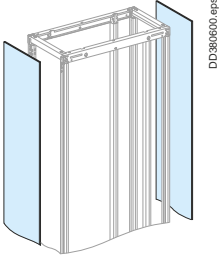
Mounting	Front panels			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain door	08513	08514	08516	08518
Transparent door	-	08534	08536	08538
Door with cut-out	08593	08594	-	-
Reinforced plain door	-	-	01224	01225
Characteristics	<ul style="list-style-type: none"> ■ Reversible for left or right-hand opening. ■ Equipped with a handle and keylock (key 405). ■ Plain door are IK08 with 2 hinges. ■ Reinforced plain door are IK10 with 3 hinges. ■ Transparent door are IK10 with 2 hinges. <p>For other possibilities, see page C-21.</p> <p>Note: the door with cut-out can be equipped with front plates for 72 x 72 or 96 x 96 instruments, see page A-73. The 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright.</p>			
Cover frame	-	08574	08576	08578 ⁽¹⁾

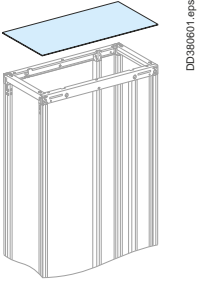
Mounting	Rear panels			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Rear panel	08733	08734	08736	08738
Characteristics	<ul style="list-style-type: none"> ■ Made up of two half panels with vents. ■ Supplied with quarter-turn fasteners. 			
Plain door	08513	08514	08516	08518
Characteristics	<ul style="list-style-type: none"> ■ Equipped with a handle and keylock (key 405). <p>For other possibilities, see page C-21.</p> <ul style="list-style-type: none"> ■ Reversible for left or right-hand opening. ■ In the case of a door mounted at the rear of cubicle, it is necessary to follow the temperature derating values for installed devices in all cubicles with cover panels rated IP55. <p>Note: the 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright.</p>			

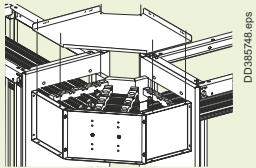
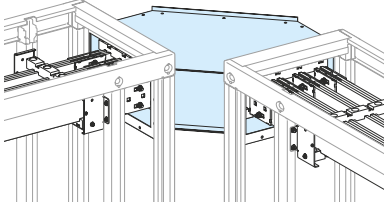
⁽¹⁾ For 800 mm wide frameworks, the 650 mm frame is supplied with a plain wicket door, 150 mm wide.

Cubicles

IP30/31 cover panels

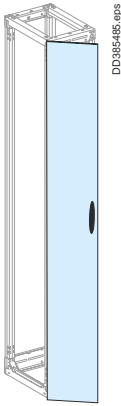



Mounting	Side panels	
		
Dimensions (mm)	D = 400	D = 600
Side panels	08750	08760
Characteristics	Supplied with quarter-turn fasteners.	

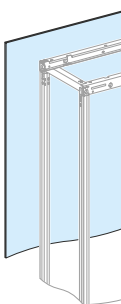
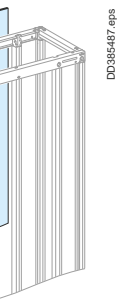


Mounting	Roof			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain roof D = 400 mm	08433	08434	08436	08438
Plain roof D = 600 mm	08633	08634	08636	08638
Characteristics	<ul style="list-style-type: none"> ■ Supplied with quarter-turn fasteners for mounting on the framework ■ With markings for cut-outs, if necessary. 			
IP31 sealing kit	08711			
Characteristics	The kit is made up of a self-adhesive gasket that attaches to the roof and a deflector. It ensures the IP31 degree of protection for a 650 or 800 mm wide cubicle, or for two cubicles (800 + 400) when they are equipped with plain or transparent front doors.			

Mounting	Right-angle kit IP30	
		
Right-angle kit IP30 Linergy LGYE	08712	
Characteristics	<p>Metal duct with busbar supports Used to create and protect the connection of horizontal busbars between two cubicles installed at right angles. This kit needs a Linergy LGYE busbar of 1080 mm length. Order the additional joint kit, comprising the 4 copper connections and mounting hardware:</p> <ul style="list-style-type: none"> ■ 2 x 04610 for Linergy LGYE 630-1600 A ■ 2 x 04611 for Linergy LGYE 2000-2500 A ■ 2 x 04613 for Linergy LGYE 3200-4000 A 	
		
Right-angle kit IP30 Linergy BS	08713	
Characteristics	<p>Metal duct Used to create and protect the connection of horizontal busbars between two cubicles installed at right angles. Order:</p> <ul style="list-style-type: none"> ■ fixed support 2 x 04664 (if 100 x 10 bar, add 2 x 04671) ■ free support 2 x 04662 (if 100 x 10 bar, add 2 x 04671) ■ joints : <ul style="list-style-type: none"> □ 04640 (bars H 50/60) order 2 per phase □ 04641 (bars H 80/100) order 2 per phase. 	

Cubicles

IP55 cover panels

Mounting		Front panels			
					
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800	
Plain door	08523	08524	08526	08528	
Transparent door		08544	08546	08548	
Characteristics	<ul style="list-style-type: none"> ■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Reversible for left or right-hand opening ■ Equipped with a handle and keylock (key 405). For other possibilities, see page C-21. <i>Note: the 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright.</i>				

Mounting		Rear panels			
					
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800	
Rear panel	08743	08744	08746	08748	
Characteristics	<ul style="list-style-type: none"> ■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Supplied with mounting hardware. ■ One-piece, reinforced panel designed to ensure the degree of protection. 				
Plain door	08523	08524	08526	08528	
Characteristics	<ul style="list-style-type: none"> ■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Equipped with a handle and keylock (key 405). For other possibilities, see page C-21. <ul style="list-style-type: none"> ■ Reversible for left or right-hand opening. <i>Note: the 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright.</i>				

Cubicles

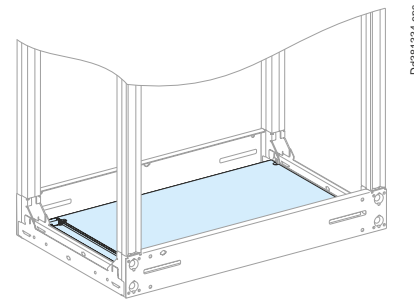
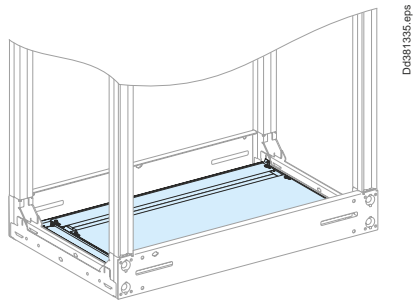
IP55 cover panels

Mounting	Side panels	
Dimensions (mm)	D = 400	D = 600
Side panels	08755	08765
Characteristics	<ul style="list-style-type: none"> ■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Supplied with mounting hardware. 	
Side panels for "L" combinations	08756	-
Characteristics	Left or right combinations of two cubicles with different depths (400 + 400 or 400 + 600). These panels simply replace the standard side panels.	

Mounting	Roof			
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain roof D = 400 mm	08453	08454	08456	08458
Plain roof D = 600 mm	08653	08654	08656	08658
Characteristics	<ul style="list-style-type: none"> ■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Supplied with mounting hardware. ■ With markings for clear identification of cable-running zones, if necessary. 			

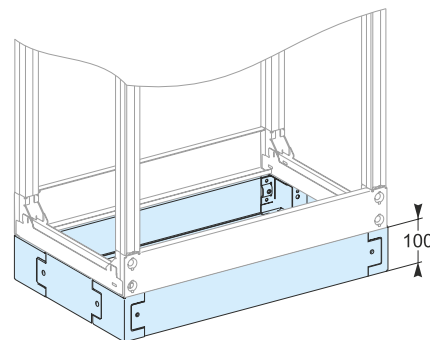
Cubicles Plinth

Mounting Two-part gland plates IP55, gland plates



Degree of protection	IP30/IP31		IP55	
Dimensions (in mm)	D400	D600	D400	D600
W = 300 mm	08493	08693	08483	08683
W = 400 mm	08494	08694	08484	08684
W = 650 mm	08496	08696	08486	08686
W = 800 mm (650 + 150)	08497	08697	08487	08687
W = 800 mm	08498	08698	08488	08688

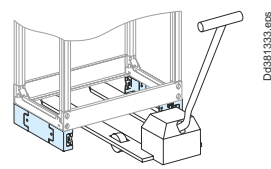
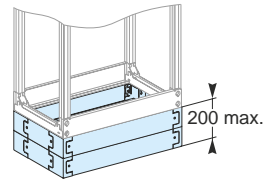
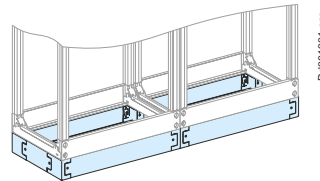
Mounting Plinth H = 100 mm



Dimensions (mm)	W = 300	W = 400	W = 650	W = 800	D = 400	D = 600
Four corner posts + two cross-pieces (front and rear)	08723	08724	08726	08728	-	-
Two side plates	-	-	-	-	08720	08721

Characteristics
 The plinth is made up of two catalogue numbers:
 ■ one catalogue number comprising four corner posts + two cross-pieces (front and rear), that can be used in side-by-side combinations or stacked to form a plinth 200 mm high (maximum)
 ■ one catalogue number comprising two side plates (400 or 600 mm).
 Each catalogue number is supplied with the necessary hardware.

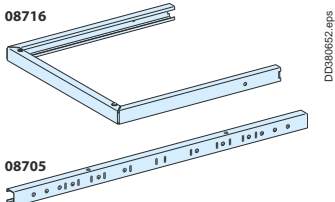
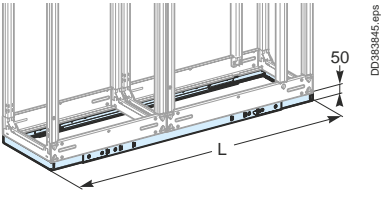
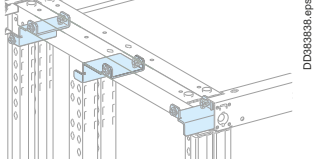
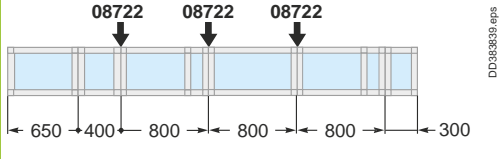
Exemples

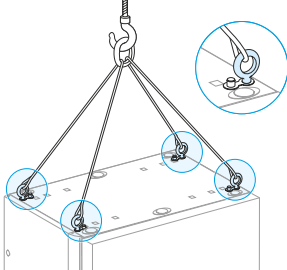
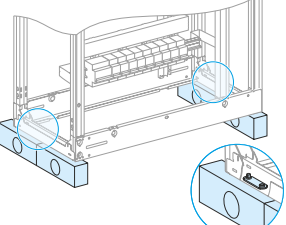
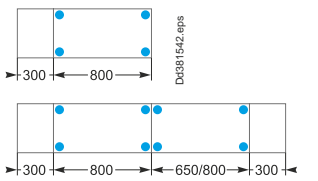
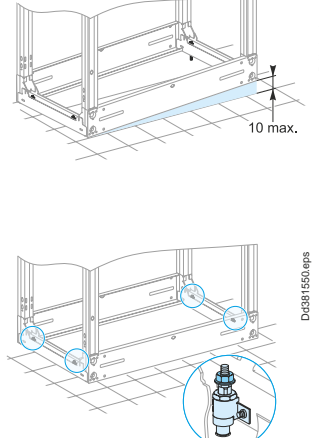
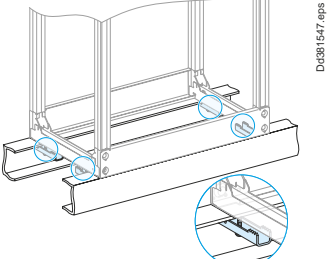
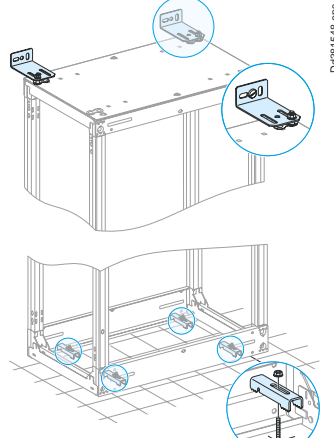
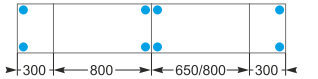
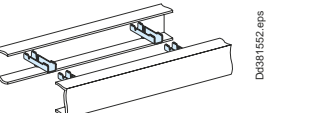
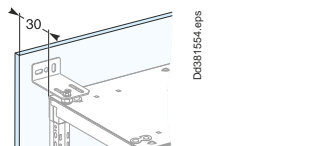


Side-by-side combination of two cubicles with a plinth. Two stacked plinths. The front and rear cross-pieces can be easily removed for a pallet-mover.

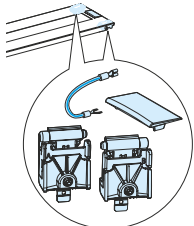
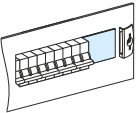
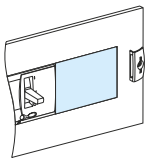
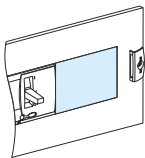
Cubicles

Cubicle handling and rolling base, Lifting reinforcement kit for combined cubicles, Right-angle kit

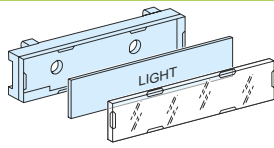
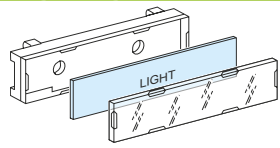
Mounting	Cubicle handling and rolling base				
	 <p>08716 08705</p> <p style="font-size: small;">DD380652.eps</p>		 <p>50 L</p> <p style="font-size: small;">DD383845.eps</p>		
Dimensions (mm)	D = 400	D = 600	L1200 to L1900	L2000 to L2550	L2650 to L3050
2 cubicle handling base end-pieces	08714	08716	-	-	-
Cubicle handling	-	-	08705	08706	08707
Characteristics	<p>This type of base is designed to avoid any risk of cubicle deformation during transport and handling. Five different catalogue numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles.</p> <ul style="list-style-type: none"> ■ Two catalogue numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware. ■ Three catalogue numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware. <p>Handling bases can be used for both side-by-side and back-to-back cubicle combinations. In this case, the mounting hardware for one of the sets is used.</p>				
Mounting	Lifting reinforcement kit				
	 <p style="font-size: small;">DD063838.eps</p>		 <p>08722 08722 08722</p> <p>650 400 800 800 800 300</p> <p style="font-size: small;">DD383839.eps</p>		
Dimensions (mm)	D = 400, D = 600				
Lifting reinforcement kit	08722				
Characteristics	<p>Kit 08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces 08714 or 08716 for severe transport or handling conditions. Catalogue number 08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.</p>				

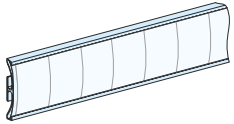
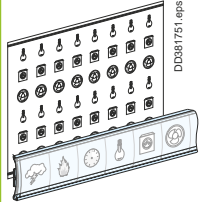
Mounting	Lifting rings	Framework stabiliser kit	
			
Cat. no.	08700	08701	
Characteristics	<ul style="list-style-type: none"> ■ Set of four lifting rings screwed to the framework. ■ Use a set of lifting rings for each framework (W = 650 and 800 mm) containing devices. ■ When two cubicles with devices have been combined, use a lifting beam. ■ can be installed and removed without removing the roof ■ even if they are left attached, the switchboard conserves its original degree of protection.  <p><i>Positions of the lifting rings for two combined cubicles containing devices. In this case, a liftingbeam must be used.</i></p>	<ul style="list-style-type: none"> ■ Made up of four blocks under the framework ■ Suitable for all types of cubicles, whatever the width and depth ■ Increases the stability of the cubicle during mounting of devices ■ Makes possible cubicle handling using a pallet mover or a forklift ■ Protects the front, side and rear cover panels during handling ■ Can be reused. 	
Mounting	Levelling kit	False floor fixing kit	Floor/wall fixing kit
			
Cat. no.	08702	08703	08704
Characteristics	<ul style="list-style-type: none"> ■ Set of 4 fixtures ■ can be installed at any time, even when the cubicle is already in position ■ maximum adjustment range = 10 mm ■ secures the cubicle to the floor.  <p><i>Recommended positions of the fixtures for combined cubicles.</i></p>	<ul style="list-style-type: none"> ■ Made up of four independent clamps ■ clamp on: <ul style="list-style-type: none"> □ "U" sections: H = 175 mm, W = 70 mm □ "I" sections: H = 120 mm, W = 64 mm ■ clamp travel = 11 mm. 	<ul style="list-style-type: none"> ■ Made up of two brackets and four clamps ■ can be used to offset the switchboard fixing points for easier access ■ the wall brackets ensure sufficient wall clearance (at least 30 mm) for natural convection. 

Front plate accessories, blanking plates

Used for	Front plate accessories	Blanking plates			
					
	DD383950.eps	DD384029.eps	DD384030.eps		
Cat. no.	08585	For modular devices		For Compact NSX100/250	
Characteristics	Set of 2 hinges	03220 ■ Strip ■ H = 46 mm, L = 1 m	03221 ■ Divisible ■ Set of 4 ■ H = 46 mm, L = 90 mm ■ White RAL 9001	03249 ■ Divisible ■ H = 85 mm, L = 147 mm ■ Blanc RAL 9001	03222 ■ Divisible + electronic trip unit

Identification labels

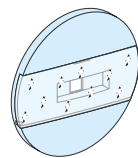
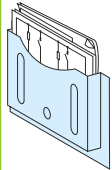
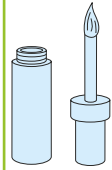
Used for	Clip-on labels	Engraving plates				
						
	DD383974.eps	DD383975.eps				
Cat. no.	08913	08915	08917	08914	08916	08918
Dimensions (mm)	18 x 35	18 x 72	25 x 85	18 x 35	18 x 72	25 x 85
Characteristics	<ul style="list-style-type: none"> ■ Set of 12. ■ The clip-on support is supplied with a paper label and a transparent cover. ■ It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.). 			<ul style="list-style-type: none"> ■ Set of 12. ■ Simply replace the paper labels. 		

Used for	Adhesive labels				Symbol sheets	
						
	DD381715.eps				DD381751.eps DD381753.eps	
Cat. no.	08905	08906	08903	08904	13735	13736
Dimensions (mm)	24 x 180	36 x 180	24 x 432	36 x 432		
Characteristics	<ul style="list-style-type: none"> ■ Set of 12. ■ The adhesive label holders are supplied with a paper label and a transparent cover 				<ul style="list-style-type: none"> ■ Set of ten symbol sheets. ■ Standard symbols: □ loads: sockets, lights, heating units, etc. □ rooms: bedroom, bathroom, etc. 	
					<ul style="list-style-type: none"> ■ Set of ten symbol sheets ■ Special symbols: □ loads: lightning arrestor, gate, swimming pool, etc. □ rooms: technical room, computer room, etc 	

Adhesive labels for mimic diagrams

Used for	Lines 900 mm long and 7 mm thick	Outgoing arrows	Incoming arrows	Transformers	Earth symbols
Cat. no.	01005	01006	01007	01008	01009
Characteristics	Set of 10				


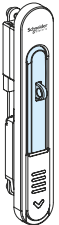
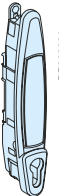
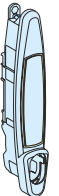
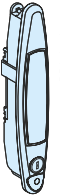
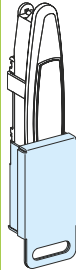
Accessories

Used for	Switchboard identification plate	Drawing holder	Touch-up accessories
			
	DD381721.eps	DD381208.eps	DD385206.eps
Cat. no.	08900	08963	08961
Characteristics	Color: RAL 9001	Color: RAL 9001	Color: RAL 9001

Enclosure accessories


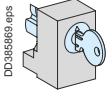
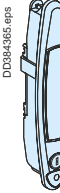

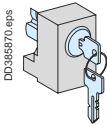
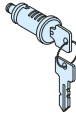
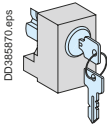
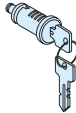
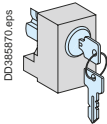
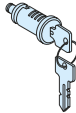
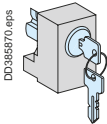
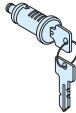
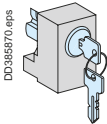
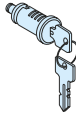
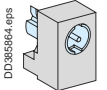

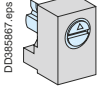

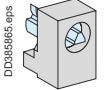

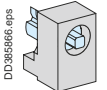

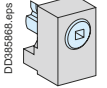

Door handles and locks

Handles and padlocking

	Rotary handle	Padlocking	EURO handle	ASSA/ ABLOY handle	RAL 7016 handle	Padlocking
						
Cat. no.	01219	07938	08932	08933	08931	08938
Characteristics	New rotary handle for Prisma P	For new rotary handle	Supplied without barrel	Supplied without barrel	Supplied with barrel lock (key no. 405) RAL 7016	For existing handle


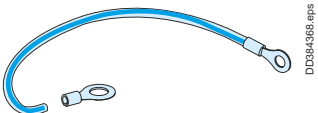
Barrel locks, inserts

The barrel locks and inserts below can be mounted on handle 08931 and on all the door handles of the Prisma P range after removing the standard barrel lock (key no. 405).

Barrels & inserts for rotary handle			Barrels & inserts for handle		
	Characteristics	Catalogue numbers		Characteristics	Catalogue numbers
	 1 key no. 405	07940		 1 key no. 405	08940
	 2 keys no. 455	07941		 2 keys no. 455	08941
	 2 keys no. 1242E	07942		 2 keys 1242E	08942
	 2 keys no. 3113A	07943		 2 keys 3113A	08943
	 2 keys no. 2433A	07944		 2 keys 2433A	08944
	 2 keys no. 2432E	07956		 2 keys 2432E	08956
	 DIN double bar insert	07945		 DIN double bar insert	08945
	 Screwdriver slot insert	07946		 Screwdriver slot insert	08946
	Male triangle insert 6.5 mm	07947		Male triangle insert 6.5 mm	08947
	7 mm	07948		7 mm	08948
	8 mm	07949		8 mm	08949
	9 mm	07950		9 mm	08950
	Male square insert 6 mm	07951		Male square insert 6 mm	08951
	7 mm	07952		7 mm	08952
	8 mm	07953		8 mm	08953
	Female square insert 6 mm	07955		Female square insert 6 mm	08955

Earthing braid

Earthing braid is used to earth a door or wicket door with devices.

	Earthing braid, 6 mm ²	Earthing wire, 6 mm ²
		
Catalogue numbers	08910	08911
Characteristics	Equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm.	Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm

Presentation

In most cases and notably for IP30 switchboards, the heat dissipation by convection takes place naturally and does not require fans.

However, when the switchboard is installed in temperate environments or when the degree of protection is high (IP54), ventilation accessories are indispensable.

The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles. This filter can be replaced during operation without risk of contact with the rotating element.

Installation

The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.

The device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles.

Characteristics

Material

Injected thermoplastic (ASA PC) self-extinguishing according to UL 94 V-0.

Color

RAL 7035 as standard, with the option of RAL 7032.

Conditions of use

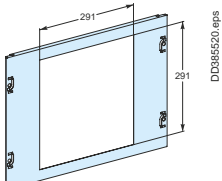
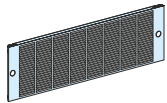
- > The outside temperature (T_e) must be 5 °C lower than the desired temperature (T_s) inside the enclosure.
- > The filters that equip the fans must be cleaned and replaced regularly.
- > The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- > Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.
- > Storage temperature: -40...+ 70 °C.
- > Degree of protection: IP54.
- > Input voltage: 230 V (50/60 Hz).







Large range of fans:

- > flow rate efficiency
- > high protection
- > rating, quick installation
- > easier maintenance to secure all the applications.



To know more, see the *Universal Enclosures catalog*, cat. no. UE12MK01EN.

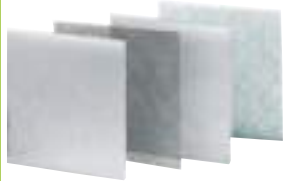
Front plate	For fan and grill	Ventilated front plate	
			
Cat. no.	03890	03891	03895
Height	7 modules H = 350 mm	1 vertical module, H = 50 mm	3 vertical modules, H = 150 mm
Characteristics	Front plate with cut-out. Degree of protection: IP30.	Degree of protection: IP30. Located at the top and bottom of the switchboard, ventilated front plates facilitate natural convection in the switchboard.	
Surface area of the openings	-	80 cm ²	250 cm ²

Forced-air ventilation	38 m ³ /hr	85 m ³ /hr	165 m ³ /hr	300 m ³ /hr	560 m ³ /hr	850 m ³ /hr	
							
Cat. no.	NSYCVF38M230PF	NSYCVF85M230PF	NSYCVF165M230PF	NSYCVF300M230PF	NSYCVF560M230PF	NSYCVF850M230PF	
Unimpeded throughput via filter (m ³ /hr)	50 Hz	38	85	165	300	562	838
	60 Hz	39	98	193	350	586	803
Throughput via outlet grill (m ³ /hr)	50 Hz	25	63	153 ⁽¹⁾	260	473	718
	60 Hz	26	72	171 ⁽¹⁾	307	477	568
Power drawn (W) (max. intensity (A))		4,5/4,8 (0.16/0.17)	17/15 (0.121/0.097)	16.3/14.3 (0.12/0.94)	36/37 (0.171/0.16)	68/85 (0.52/0.370)	150/195 (0.65/0.85)
Noise level (dB (A))		40/41	46/49	50/51	55/56	59/59	76/75
External dimensions (cutting)		137 x 117 x 49 (92 x 92)	170 x 150 x 62 (125 x 125)	268 x 248 x 104 (223 x 223)	268 x 248 x 116 (223 x 223)	336 x 316 x 161 (291 x 291)	336 x 316 x 162 (291 x 291)
Weight (kg)		0,220	0.780	1.140	1.3	3.2	4.1
Operating temperature		-10...+70 °C	-20...+60 °C	-20...+60 °C	-10...+70 °C	-15...+60 °C	-15...+60 °C

Outlet grill

Cat. no.	NSYCAG92LPF	NSYCAG125LPF	NSYCAG223LPF	NSYCAG223LPF	NSYCAG291LPF	NSYCAG291LPF
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Filters for outlet grill

						
G2 M1 standard filters	NSYCAF92	NSYCAF125	NSYCAF223	NSYCAF223	NSYCAF291	NSYCAF291
G3 M1 fine filters	-	NSYCAF125T	NSYCAF223T	NSYCAF223T	NSYCAF291T	NSYCAF291T
Characteristics	Set of 5 (for replacement) Synthetic filters					

EMC cover

Cat. no.	-	NSYCAP125LE	NSYCAP223LE	NSYCAP223LE	NSYCAP291LE	NSYCAP291LE
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⁽¹⁾ For 2 outlet grills 161 (50 Hz) / 175 (60 Hz).

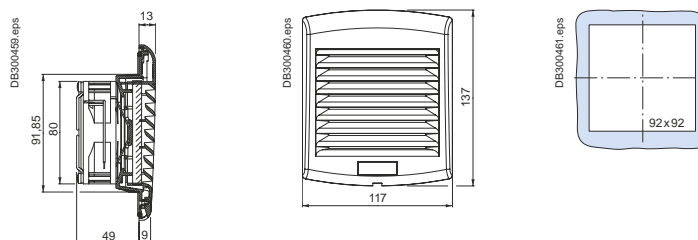
Nota : For other usage voltage like 50V or 110V, see Universal Enclosures catalog, cat. no. UE12MK01EN.

Ventilation accessories

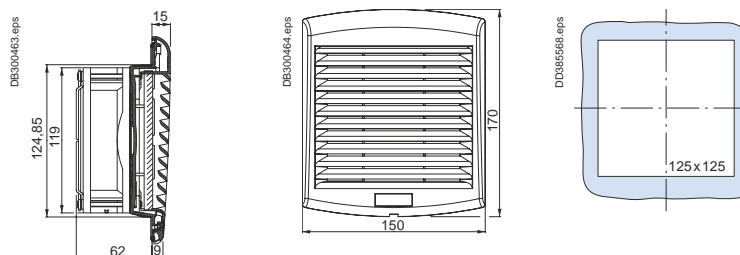
Panel installation

Dimensions

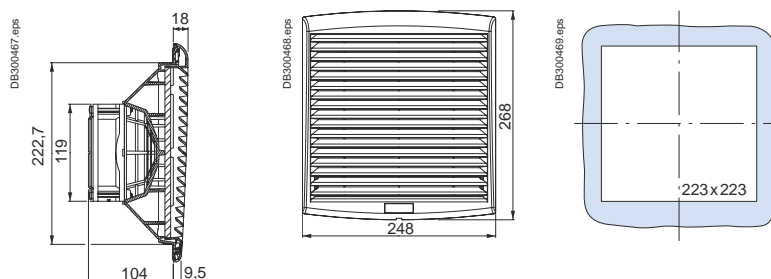
NSYCVF38M230PF



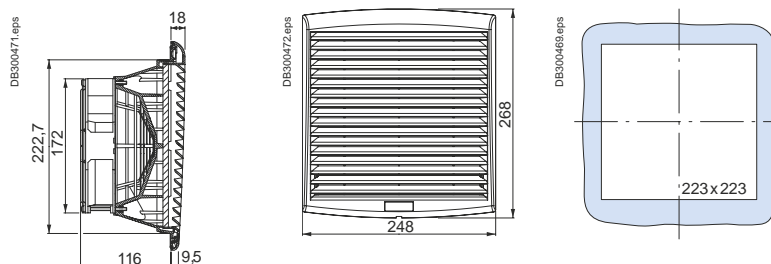
NSYCVF85M230PF



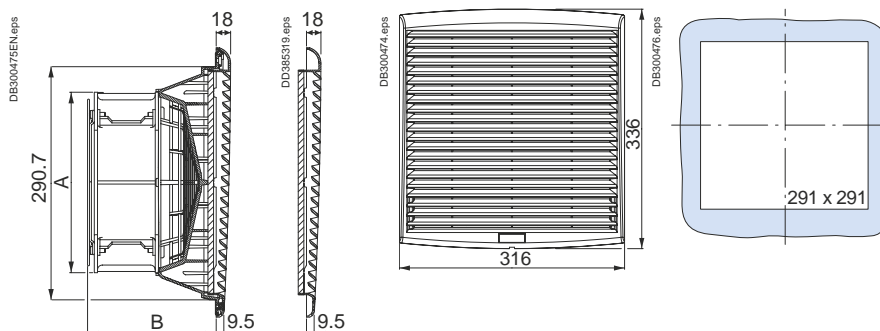
NSYCVF165M230PF



NSYCVF300M230PF



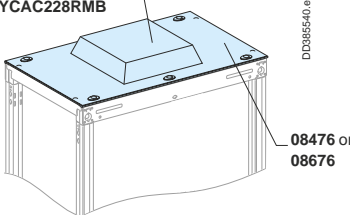
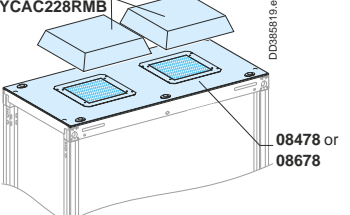
NSYCVF560M230PF - NSYCVF850M230PF



A	B	Cat. no.
225	160.5	NSYCVF560M230PF
280	192	NSYCVF850M230PF

Ventilation accessories



Roof installation

Roof ventilation	Width 650, IP31		Width 800, IP54	
	NSYCVF575M230MB or NSYCAC228RMB 		2 x NSYCVF575M230MB or 2 x NSYCAC228RMB 	
Roof with a cut-out	D = 400 mm	D = 600 mm	D = 400 mm	D = 600 mm
Catalogue numbers	08476	08676	08478	08678
Forced ventilation top hood with fan				
Catalogue numbers	NSYCVF575M230MB		2x NSYCVF575M230MB	
Characteristics	Fan characteristics <ul style="list-style-type: none"> ■ Power: 85 W ■ Input voltage: 230 V ■ Throughput via outlet grill : <ul style="list-style-type: none"> □ with 1 outlet grill: 350 m³/hr □ Free with filter: 575 m³/hr □ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003 white ■ Noise level: 64 dB. 		Fan characteristics <ul style="list-style-type: none"> ■ Power: 85 W ■ Input voltage: 230 V ■ Throughput via outlet grill : <ul style="list-style-type: none"> □ with 1 outlet grill: 350 m³/hr □ Free with filter: 575 m³/hr □ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003 white ■ Noise level: 64 dB. 	
Natural ventilation top hood without fan				
Catalogue numbers	NSYCAC228RMB		2x NSYCAC228RMB	
Characteristics	<ul style="list-style-type: none"> ■ Material: steel ■ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003 white ■ IP54 ■ Fixing to the top by means of caged nuts and special screws 		<ul style="list-style-type: none"> ■ Material: steel ■ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003 white ■ IP54 ■ Fixing to the top by means of caged nuts and special screws 	


Resistors

Resistors prevent condensation, corrosion and superficial leakage currents. They maintain a positive temperature in the enclosures and cubicles when external temperatures drop very low.

- Install heaters according to the desired power level at the bottom of the enclosure
- Respect a safety area of a least 10 cm around the device
- The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.
- Surface temperature limited to 75 °C when the ambient temperature is -5 °C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

Aluminium PTC resistors			Resistive heaters with fan				
							
	Power cord		Terminal block			Terminal block	
Cat. no.	NSYCR10WU2	NSYCR20WU2	NSYCR55WU2	NSYCR100WU2	NSYCR150WU2	NSYCR250W230VV	NSYCR400W230VV
Power rating (W)	10	25	55	90	150	250	400
Voltage (V)	110-250 AC	110-250 AC	110-250 AC	110-250 AC	110-250 AC	230 AC	230 AC
Characteristics	<ul style="list-style-type: none"> ■ Vertical mounting. ■ Aluminium case with fins. ■ Temperature: <ul style="list-style-type: none"> □ turns off at 60 °C, □ turns on at 25-30 °C (temperature of the resistor itself). ■ Equipped with a symmetrical 					<ul style="list-style-type: none"> ■ Vertical mounting. ■ Aluminium case with fins. ■ Temperature: <ul style="list-style-type: none"> □ turns off at 60 °C, □ turns on at 25-30 °C (temperature of the resistor itself). ■ Equipped with a symmetrical 	




Thermofan

Thermofan	
	
	Terminal block
Cat. no.	NSYCRP1W230VTVC
Power rating (W)	400/550
Voltage (V)	230 AC
Characteristics	<ul style="list-style-type: none"> ■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure. ■ Fixing by clip on a DIN rail. ■ Thermostat adjustable from 0...+60 °C. ■ Visual operation indicator.

Regulating

The thermostat can control the temperature inside electrical switchboards in conjunction with heating resistors and fans.

This thermostat can control the activation of a fan and a heater and regulate their temperature independently.

Mecanical thermostats		Electronical thermostats			
	 PB501172_R.eps	 PB501162_30.eps	 PB502513.eps		
	Thermostat with OF contact	Double thermostat	Electronical thermostat	Electronic hygrotherm	Electronic hygrostat
Cat. no.	NSYCCOTHI	NSYCCOTHD	NSYCCOTH230VID	NSYCCOHYT230VID	NSYCCOHY230VID
Colour of the button	Black	<ul style="list-style-type: none"> ■ Red: with normally closed contact (NC) for controlling the resistance heaters. ■ Blue: with normally open contact (NO) for controlling the fans, signalling systems or alarms. 	-	-	-
Contact	Inverse, forced rupture	1 with normally closed contact (NC), 1 with normally open contact (NO), forced rupture	Free with zero potential		
Internal sensor element	Bimetal		Internal temperature sensor	-	Internal humidity sensor
Switching capacity	250 V AC ; 10 A (resistive load)	250 V AC ; 10 A 120 V AC ; 15 A 250 V AC/120 V AC : 2 A (inductive load cos $\phi=0,6$) 30 W DC	-	-	-
Max interrupting capacity with direct current	250 V AC 4 A (charge inductive $\phi=0,6$) 30 W DC	-	-	-	-
Connection	Four 2.5 mm ² terminals	Six 2.5 mm ² terminals	2 x 2.5 mm ² (input voltage) + 2 relays (2 x 2.5 mm ² + 2 x 2.5 mm ²)	2 x 2.5 mm ² (input voltage) + 2 relays (2 x 2.5 mm ² + 2 x 2.5 mm ²)	2 x 2.5 mm ² (input voltage) + 1 relay (2 x 2.5 mm ²)
Dimensions (mm)	67 x 50 x 44	60 x 33 x 43	-	-	-
Weight (g)	100	40	-	-	-
Hysteresis	7° K	7° K	Programmed 2 °K	3 %	3 %
Temperature setting range	+5...+60 °C	0...+60 °C	-40 °C...+80 °C	-40 °C...+80 °C	-40 °C...+80 °C, humidity setting range:20 %...80 %
Characteristics	<ul style="list-style-type: none"> ■ Ingress protection rating: IP20. ■ Contact resistance: < 10 mΩ. ■ Service life: > 100 000 cycles. ■ Fixing: by clip on a 35-mm DIN rail ■ Case : plastic UL 94 V-0, light grey. ■ Operating temperature : -20...+80 °C (-4...+176 °F). ■ Display : °C/°F. ■ Max. command intensity: (NC) 5 A (NO) 10 A. 		<ul style="list-style-type: none"> ■ Ingress protection rating: IP20. ■ Certification : UL/UR. ■ Fixing: 4 different methods: on DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate ■ Boîtier : plastique UL 94 V-0, gris clair. ■ Operating temperature : -40 °C...+80 °C. ■ Display : °C/°F. ■ Max. command intensity: 8 (5) A 230 V AC / 5 A 30 V DC. 		

PTC external temperature sensor (double insulation)



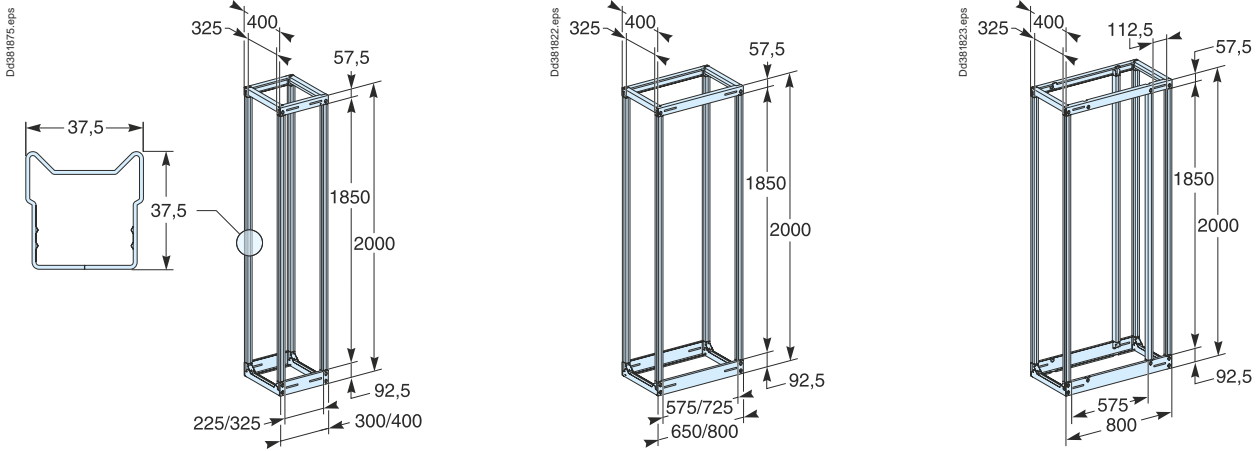
Cat. no.	NSYCCASTE
Characteristics	<ul style="list-style-type: none"> ■ Sensor operation or reading range: -30 °C...+80 °C. ■ IP67. ■ Thermostat installation tips: the thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that best meets your needs. ■ Hygrostat installation tips: the hygrostat should be installed at the bottom of the enclosure. 60 % RH is the optimum value in the enclosure.

Thermal management of switchboards

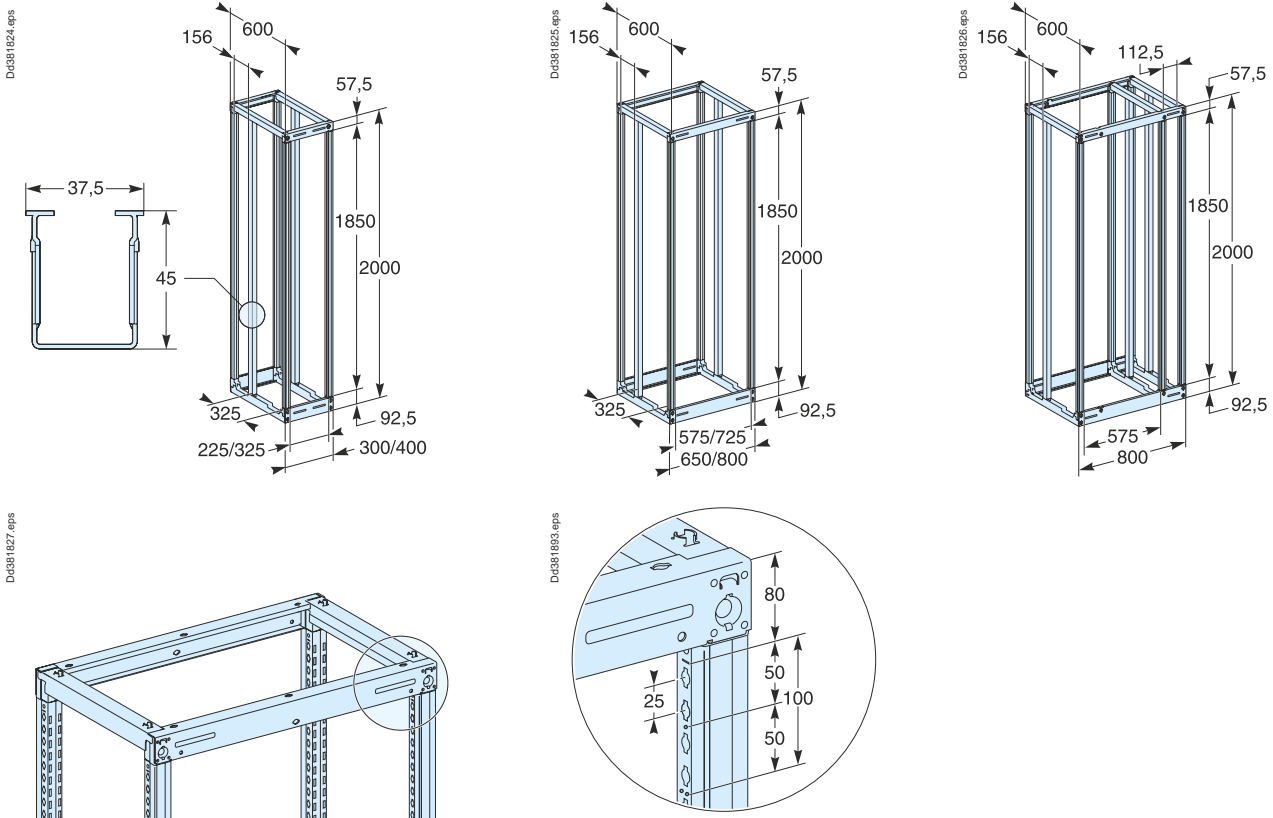
> See page D-72.

Dimensions

Frameworks, D = 400 mm

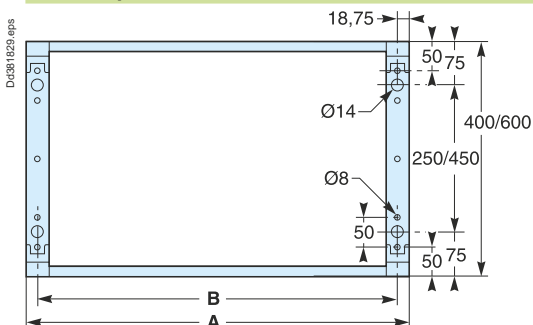


Frameworks, D = 600 mm

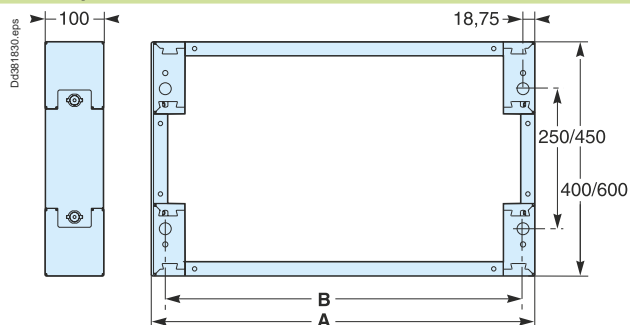


Fixing to floor

Without plinth



With plinth

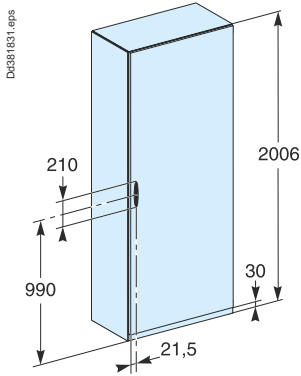


A	B
300	262.5
400	362.5
650	612.5
800	

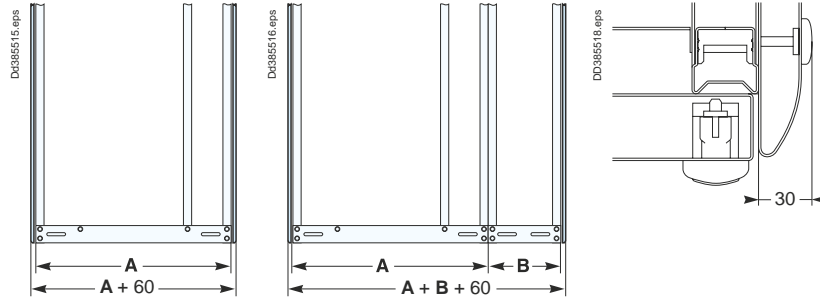
Dimensions

Cubicle with cover panels

Height

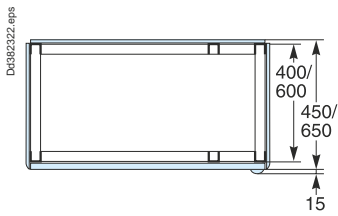


Width

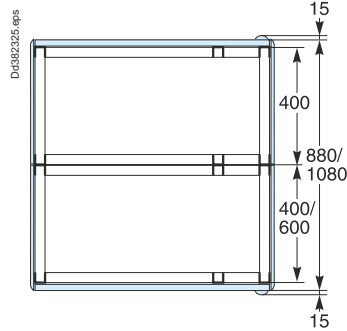
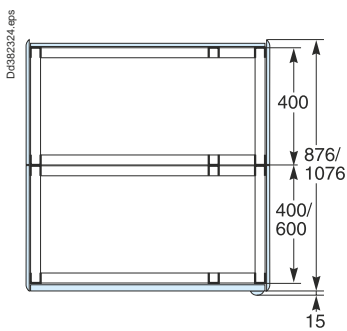
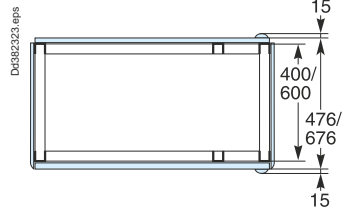


Depth

Door in front and panel in rear

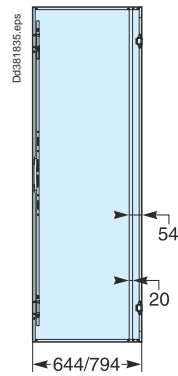
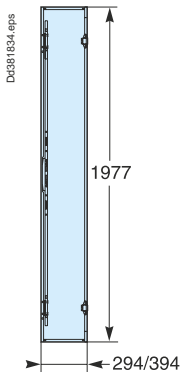


Doors front and rear

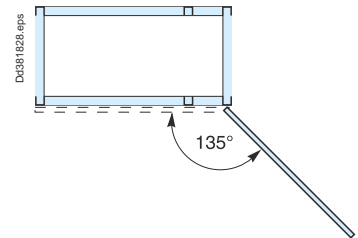
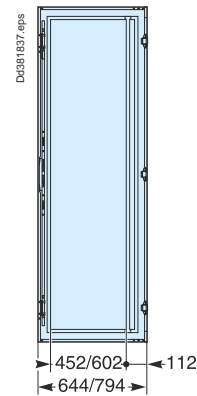
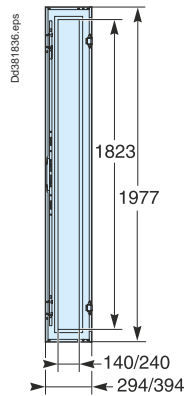


Door

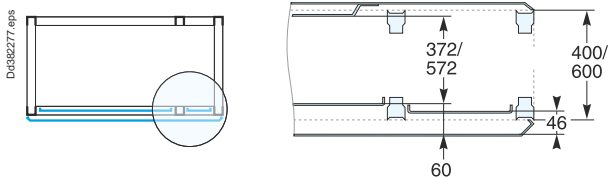
IP30 door



IP55 door



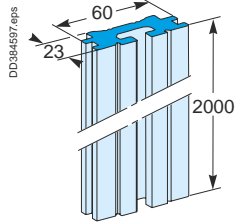
Available space behind door



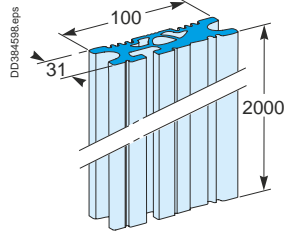
Dimensions

Linery LGYE busbars

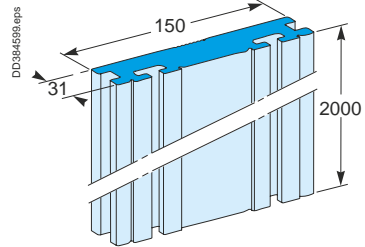
630 A - 1600 A



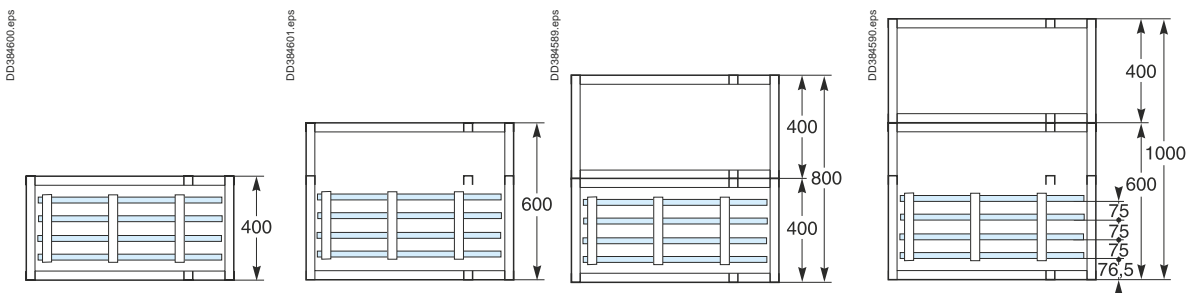
2000 A - 2500 A



3200 A - 4000 A

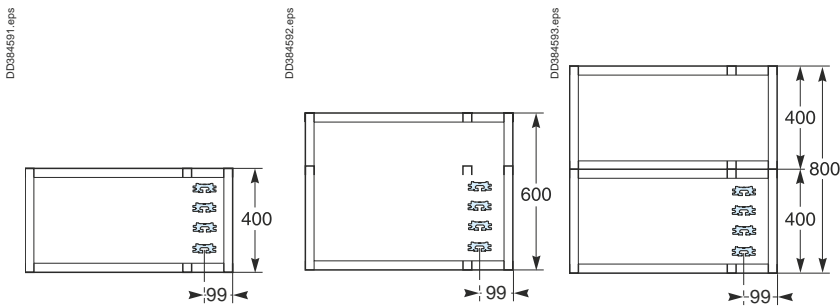


Layout of horizontal Linery LGYE busbars

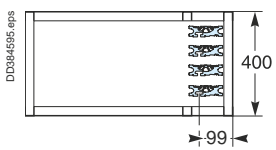


Layout of vertical Linery LGYE busbars

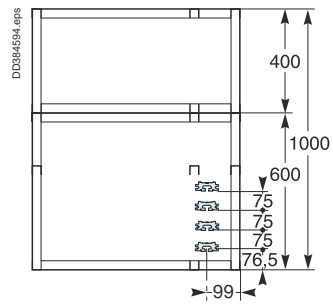
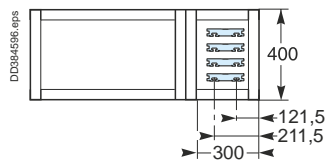
630 A - 1600 A



2000 A - 2500 A

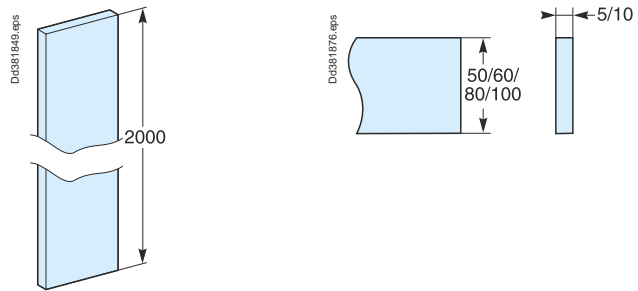


3200 A - 4000 A

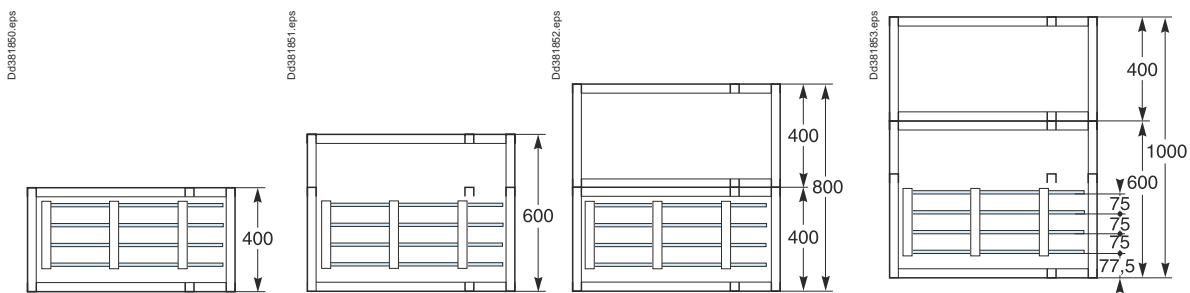


Dimensions

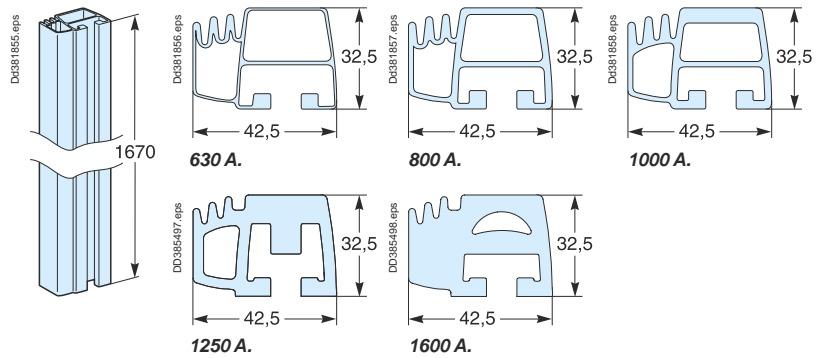
Horizontal Linergy BS busbars



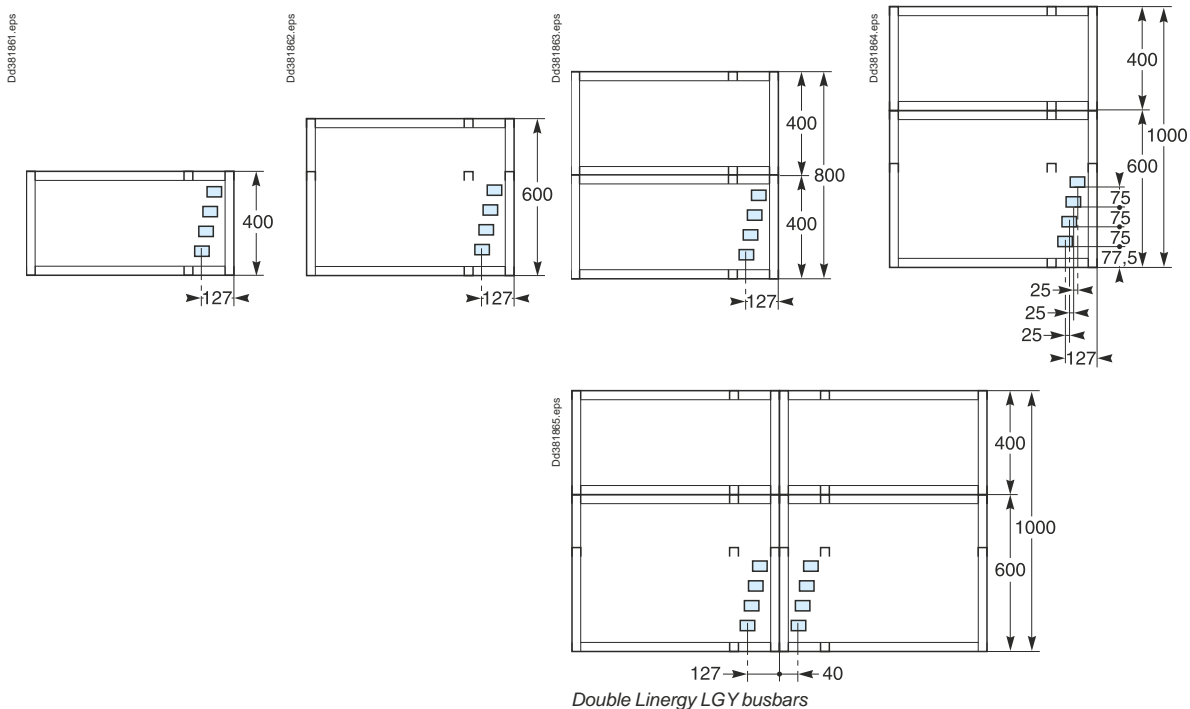
Layout of horizontal Linergy BS busbars



Vertical Linergy LGY busbars



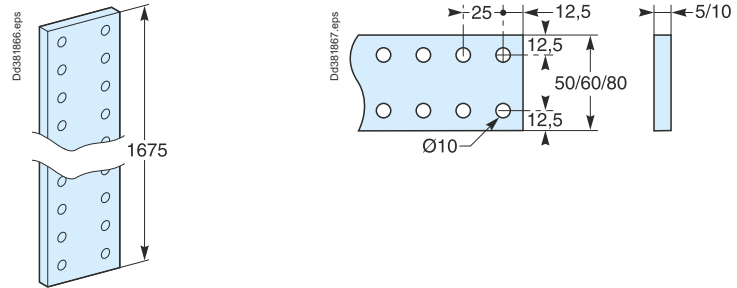
Layout of Linergy LGY busbars



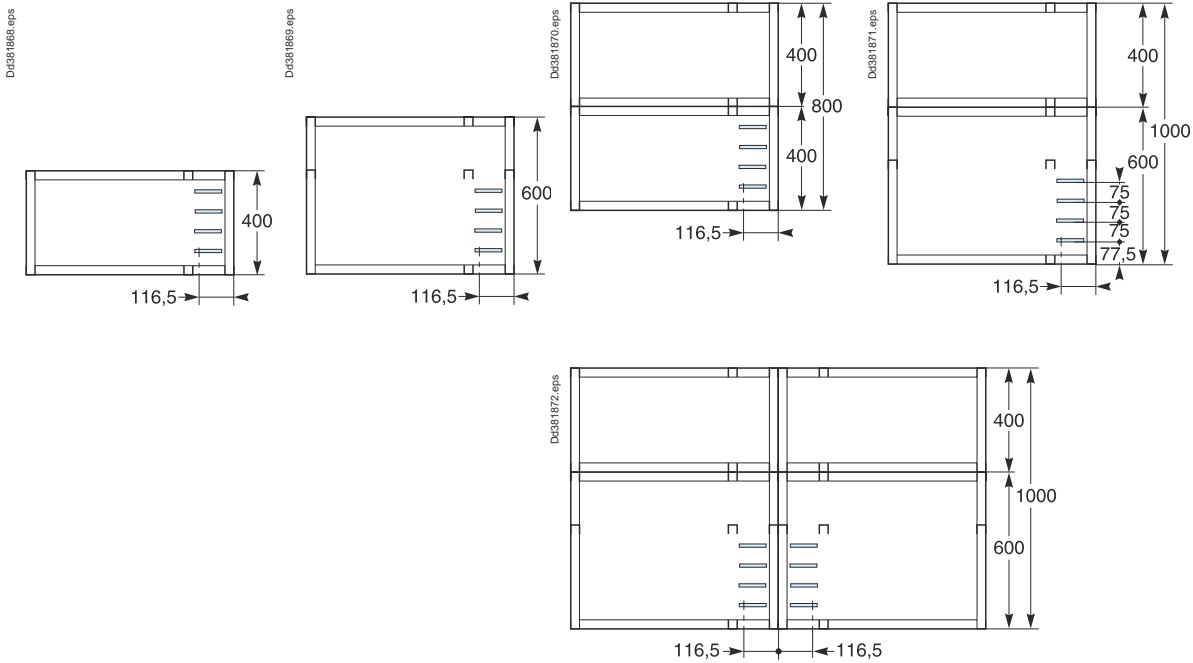
Double Linergy LGY busbars

Dimensions

Vertical Linergy BS busbars

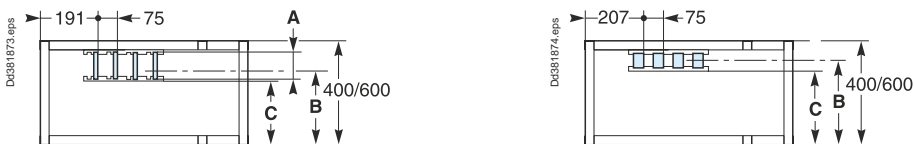


Layout of lateral Linergy BS busbars



Double Linergy BS busbars.

Layout of rear Linergy BS busbars



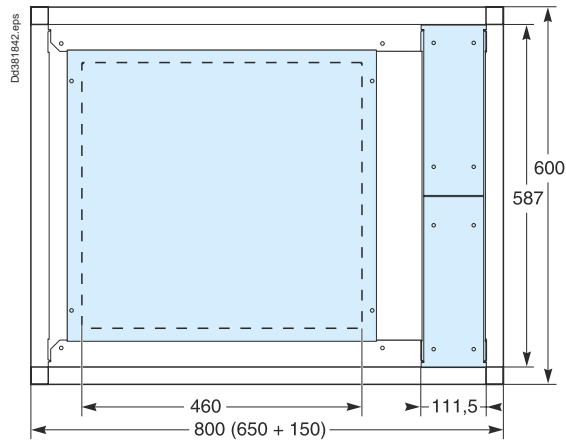
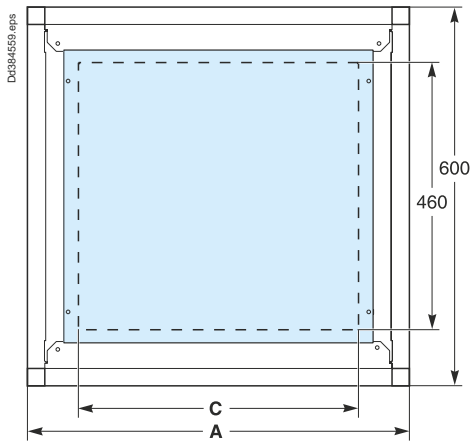
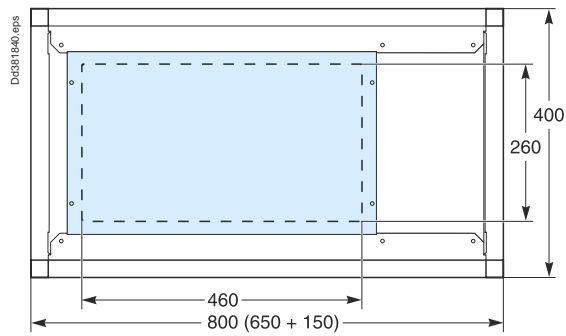
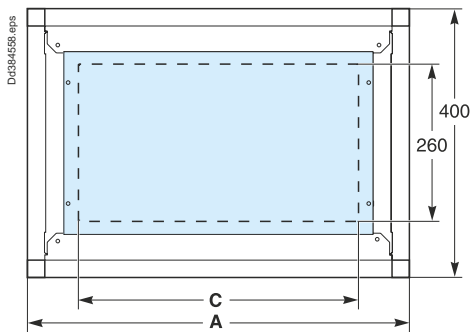
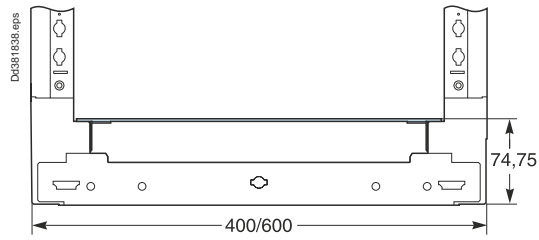
		A		
		50	60	80
D = 400 mm	B	284	274	254
	C	250	240	220
D = 600 mm	B	484	474	454
	C	450	440	420

		A	
		50	60
D = 400 mm	B	284	
	C	242	
D = 600 mm	B	484	
	C	442	

Dimensions

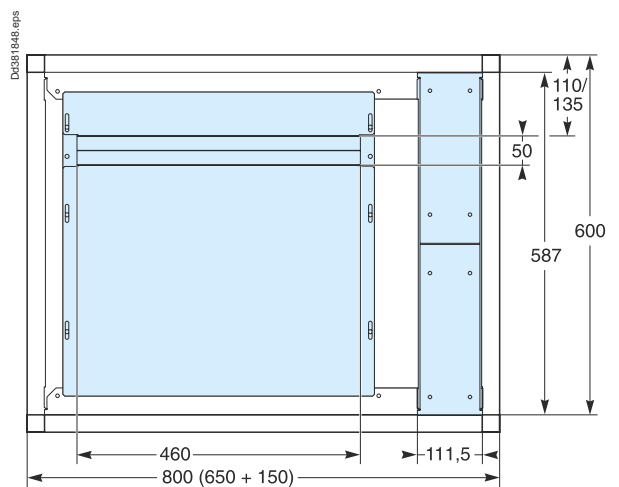
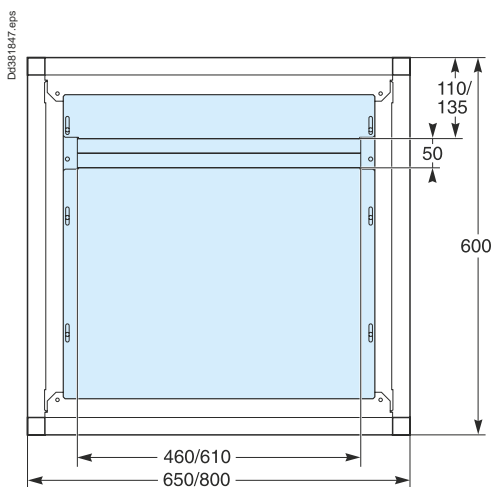
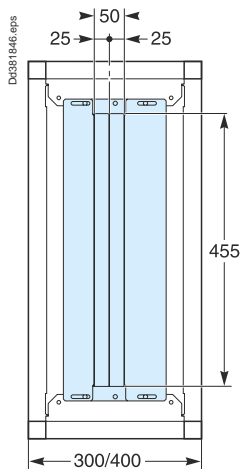
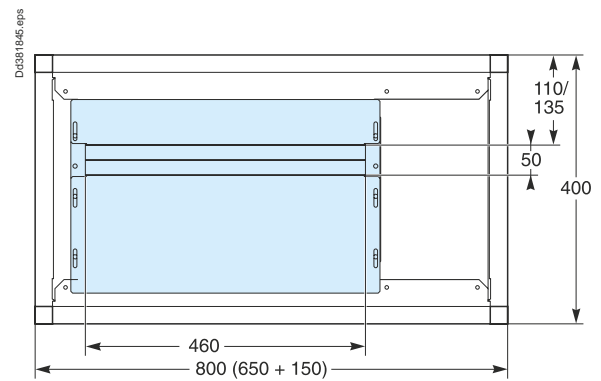
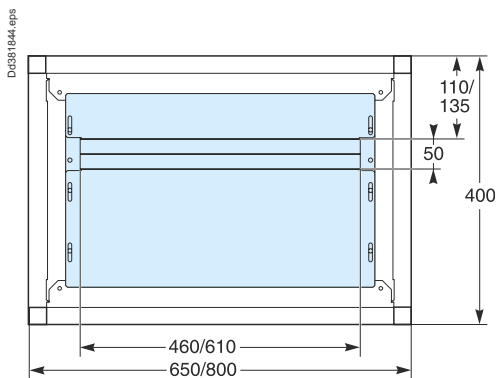
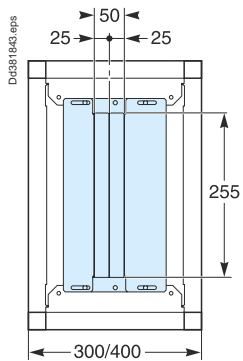
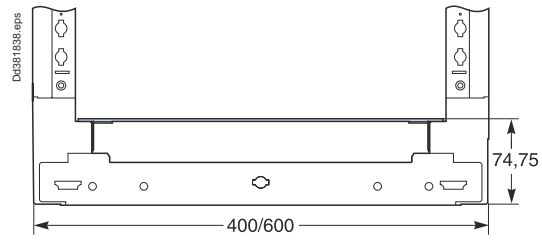
Plain gland plates

A	C
300	110
400	210
650	460
800	610



Dimensions

Two-part gland plates





Additional information

	After-sales support	D-3
<hr/>		
Energy efficiency with Prisma P		
	Optimise electrical networks	
	Improving power quality	D-7
	Additional equipment to optimise electrical installations	D-8
<hr/>		
Electrical characteristics		
	Designing Prisma P power circuits	
	Presentation and approach	D-9
	Designing horizontal busbars	
	Linery LGYE	D-12
	Linery BS	D-13
	Designing vertical busbars	
	Linery LGY	D-14
	Linery LGYE	D-15
	Linery BS	D-16
	Designing rear busbars	
	Linery LGYE, Linery BS	D-17
	Designing connections between a device and busbars	
	Prefabricated connections for Compact NS630b to NS1600	D-18
	Prefabricated connections for Masterpact 06-16	D-19
	Prefabricated connections for Compact NS630b to NS1000	D-20
	Fixed Masterpact 08-16	D-21
	Fixed Masterpact 08-32	D-22
	Drawout Masterpact 08-16	D-23
	Drawout Masterpact 08-32	D-24
	Designing connections between a device and busbars	
	Dedicated cubicle	
	Fixed Masterpact 08-32	D-25
	Drawout Masterpact 08-32	D-26
	Fixed Masterpact 06-16	D-27
	Drawout Masterpact 06-16	D-29
	Fixed Compact NS1600b to NS3200	D-31
	Fixed Compact NS630b to NS1600	D-32
	Withdrawable Compact NS630b to NS1600	D-34
	Fixed Compact INS-INV630b to 2500	D-36
	Horizontal, fixed Compact NS630b to NS1000	D-38
	Designing connections ≤ 630 A	
	Device connections	D-39
	Compact circuit breakers NSX100 to NSX630 - Insulated flexible copper bars	D-40
	Compact circuit breakers NSX100 to NSX630 - Copper cable	D-41
	Designing cable connections	
	Tubular lugs	D-42
	Designing customer connections	
	Prefabricated connections for Compact NS630b to NS1600	D-43
	Prefabricated connections for Masterpact 06-16	D-44
	Connection transfer assembly for fixed Compact NS630b to NS1000	D-45
	Fixed Masterpact 08-16	D-46
	Fixed Masterpact 08-40	D-47
	Drawout Masterpact 08-16	D-48
	Masterpact 08-40 withdrawable	D-49
	Fixed Masterpact 06-16	D-50
	Drawout Masterpact 06-16	D-51
	Fixed Compact NS1600b to NS3200	D-52
	Fixed Compact NS630b to NS1600	D-53
	Withdrawable Compact NS630b to NS1600	D-54
	Fixed Compact NS630b to NS1000 - Horizontal mounting	D-55
	Fupact INF, ISFT, ISFL Linery BS busbars	D-56
	Fupact INF, ISFT - Vertical Linery LGYE, LGY busbars	D-57
	Fupact INF, ISFT - Vertical Linery BS busbars	D-58

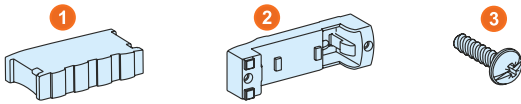
	Prisma P Seismic	D-60
	Introduction	D-60
	Principle	D-61
	Installation conditions	D-62
Standards and tested switchboards		
	Standards	D-63
Enclosure characteristics		
	Selection of enclosures according to the premises	D-68
	Properties of metal enclosures	D-75
Thermal characteristics of switchboards		
	Thermal management of switchboards	D-77
	General	D-77
	Example	D-80
	Charts	D-82
	Ventilation	D-83
	Heating	D-84
Practical information		
	Tools required for mounting and connection	D-85
	Connection of horizontal to vertical busbars	D-86
	Installation of the current transformer	D-87
	Installation of source changeover systems	D-89
	Storage recommendations	D-91
	Packing information	D-92
	Handling on the site	D-93
	Transport	D-95
	Cubicle handling and rolling base	
	Lifting reinforcement kit for combined cubicles	D-96
	Connection of busbar trunking	D-97
	Connection of power cables	D-98
Maintenance		
	Preventive maintenance	D-101
	Corrective maintenance	D-103

Linery BW busbar accessories

Linery BW accessories, 160/400 A

01210

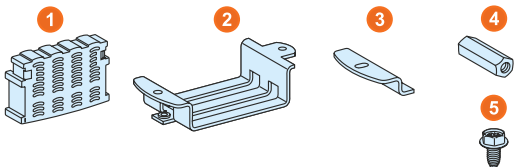
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- 1 2 end plugs
- 2 2 angle brackets support
- 3 2 screws

Linery BW accessories, 630 A

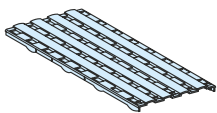
01211



- 1 2 end plugs
- 2 2 metal angle brackets
- 3 2 brackets for support
- 4 2 hexagonal blocks
- 5 2 self-tapping screws

2 IPxxB clipon covers for Linery BW, 160 to 400 A

01201

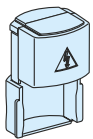


Linery FM busbar accessories (IP30)

4 terminal covers for 200 A Linery FM

01202

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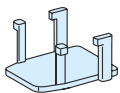


Linery busbar accessories (IP30)

12 chocks for Linery busbars

01109

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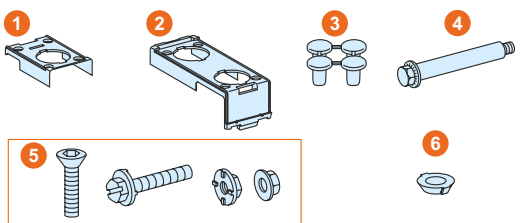


Framework accessories

Framework accessories

01104

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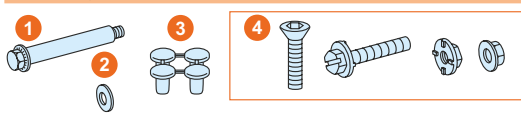


- 1 4 top sealing components
- 2 4 bottom sealing components
- 3 4 bottom cross-piece plugs
- 4 2 adjacent mounting spacer tubes
- 5 2 mounting hardware
- 6 12 conical washers

Mounting hardware D = 400 mm or D = 600 mm framework

01108

DD384593.EPS

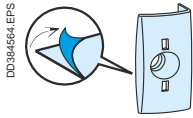


- 1 2 adjacent mounting spacer tubes
- 2 2 washers
- 3 4 bottom cross-piece plugs
- 4 2 mounting hardware

Front-plate accessories

20 self adhesive front plate grips

01093



DD384564.EPS

10 sets of 2 grips quarter turn

01094

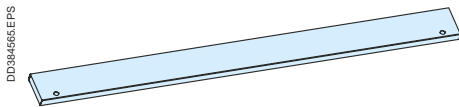


DD384562.EPS

Accessory

Plain wicket door, W = 150 mm

01110

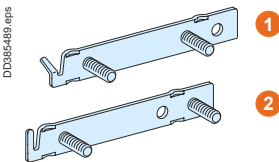


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Linergy LGYE busbar accessories

Linergy LGYE connection screwplate kit

01130



DD385489.EPS

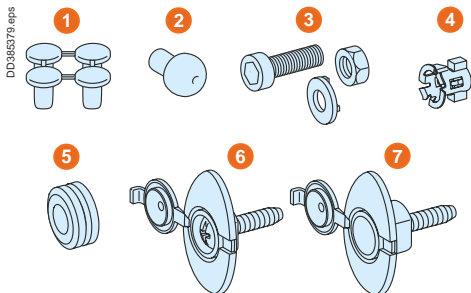
- 1 4 plates for 2000 - 4000 A joint
- 2 4 flat plates for 3200 - 4000 A connection
- 3 16 conical contact washer $\varnothing 8$
- 4 16 torque nut M8



Rear accessories

Accessories IP55

01101

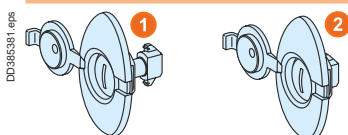


DD385279.EPS

- 1 4 IP55 framework plugs
- 2 4 stop doors
- 3 base + screw + washer + nut
- 4 8 cage nuts
- 5 3 white grommet plugs
- 6 2 IP55 roof and rear panel fixing systems
- 7 6 IP55 rear panel fixing systems

Rear panel accessories

01106



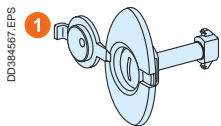
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- 1 8 IP30 rear panel fixing systems
- 2 2 IP30 roof and rear panel fixing systems

Side panel accessories

Side panel accessories

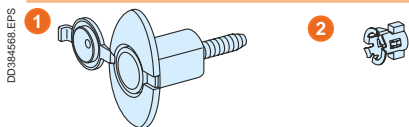
01100



- 1 16 fixing system IP30

Accessories for IP55 side panel

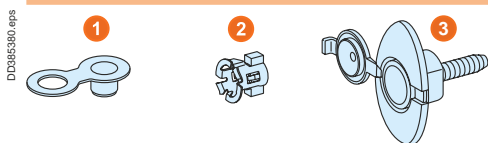
01102



- 1 16 fixing system IP55
- 2 16 cage nuts

Accessories for IP55 roof

01103

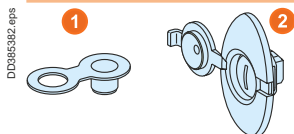


- 1 4 lifting ring plugs
- 2 6 cage nuts
- 3 6 mounting sets of screw fixing IP55 for roof

Roof accessories

Roof accessories

01112

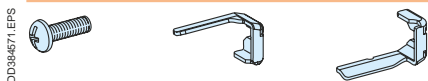


- 1 4 lifting ring plugs
- 2 6 IP30 roof and rear panel fixing systems

Front plate support frames

Front plate support striker kit for 08564 - 08566

01123



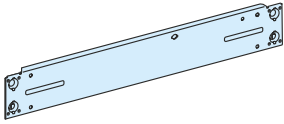
Side-by-side combination kit

	Prisma P/Prisma P	PrismaP/Prisma PH
Catalogue number	01199	01198
Characteristics	<p>■ To add a Prisma P cubicle to an existing Prisma installation, use the combination kit and a 400 mm wide frame.</p>	<p>■ Prisma PH/Prisma P side-by-side combination kit</p> <p>Note: When combining Prisma PH and Prisma P IP55 enclosures, use the IP55 sealing kit for side-by-side combinations (08717) together with the side-by-side combination kit (01198).</p>

Framework accessories

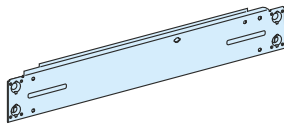
Framework accessories

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- CS frame bottom cross-member W400 to be used with old model 08504 **01115**
- CS frame bottom cross-member W650 to be used with old model 08506 **01116**
- CS frame bottom cross-member W150 + 650 to be used with old model 08506 **01117**
- CS frame bottom cross-member W650 + 150 to be used with old model 08506 **01118**

DD384572.EPS



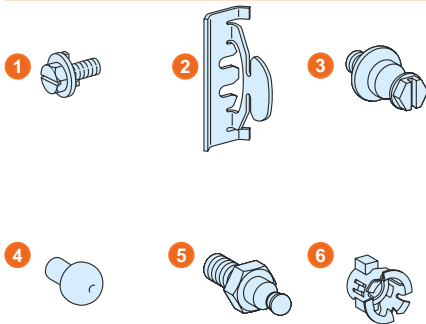
- Frame bottom cross-member W400 to use with 08564 **01119 ⁽¹⁾**
 - Frame bottom cross-member W650 to use with 08566 **01120 ⁽¹⁾**
 - Frame bottom cross-member W150+650 to use with 08566 **01121 ⁽¹⁾**
 - Frame bottom cross-member W650+150 to use with 08566 **01122 ⁽¹⁾**
- (1) Spare parts on stock in RAL 9001 only.*

Door accessories

Closing accessories

01105

DD384617.eps

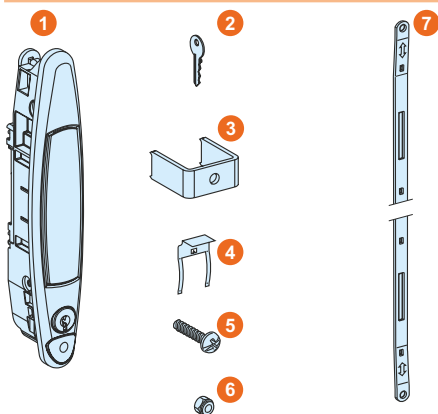


- 1** 4 screw THF M6 x 16
- 2** 4 stop rod
- 3** 3 1/4 turn stud
- 4** 2 stop doors
- 5** 3 hinge pins
- 6** 7 captive nut for frame

Retrofit handle

01221

DD384573.EPS

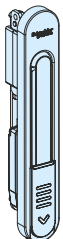


- 1** 1 handle
- 2** 1 key no. 405
- 3** 1 handle staple
- 4** 1 shifting fork
- 5** 1 Pozidriv screw for handle staple
- 6** 2 nut + washer with teeth
- 7** 2 control rod

Rotary handle

01219

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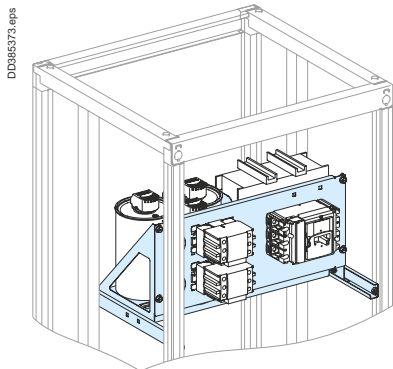


Optimise electrical networks

Improving power quality

Energy efficiency with Prisma P

To improve power quality, Schneider Electric proposes two power-factor correction systems, VarplusCan. Both are designed for optimum installation in Prisma P.



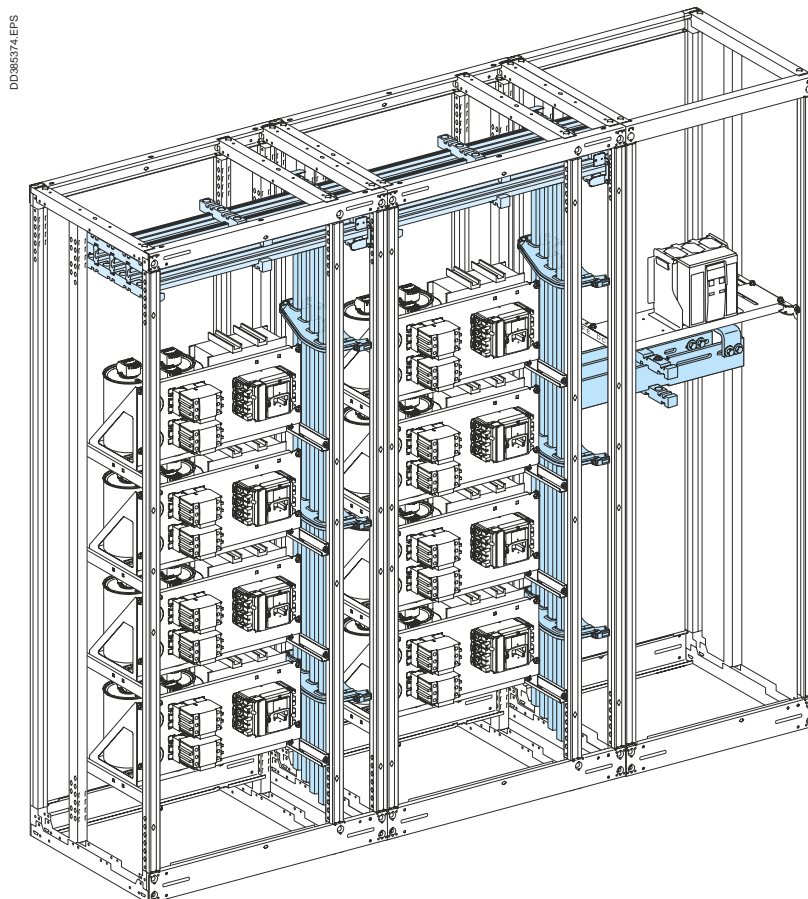
Prisma P enclosures are designed for installation of the new VarplusCan power factor correction modules that improve the quality of the electrical distribution system and reduce consumption of reactive energy.

The modules are made up of capacitors, contactors and devices protecting against internal faults.

Installation

See page A-69 for information on installation in the enclosure.

The modules can be supplied by vertical busbars, e.g. Linergy.



Energy efficiency with Prisma P

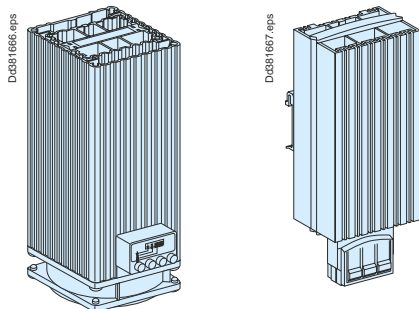
During design or during subsequent operation, electrical installations are increasingly outfitted with components designed to optimise energy consumption.

With Prisma P, most of these products can already be added to the switchboard.

By limiting the temperature within the switchboard, it is possible to extend the life of the equipment and optimise its use.

In addition, electricity consumption is reduced because equipment in good condition has lower losses.

Heaters

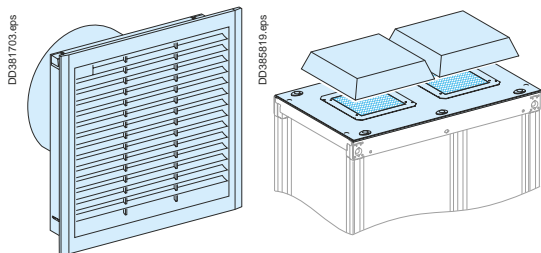


Heaters contribute to equipment optimisation by limiting condensation, corrosion and, above all, leakage currents along surfaces.

Installation and characteristics

See page C-26

Fans



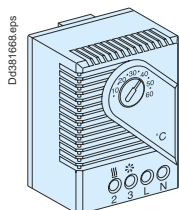
Several types of fans are available: enclosure wall or roof-mount versions.

They are particularly useful for switchboards installed in temperate environments or when the degree of protection of the enclosure is high (IP55).

Installation and characteristics

See page C-19.

Thermostat

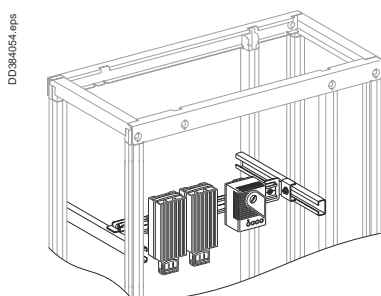


Thermostats are used to limit the temperature inside switchboards when heaters and fans are installed, thus reducing heat losses.

Installation and characteristics

See page C-26.

Installation



Heaters and thermostats simply clip onto a modular rail.

See *Universal Enclosures catalog*, cat. no. UE12MK01EN.

Designing Prisma P power circuits

Presentation and approach

Electrical characteristics

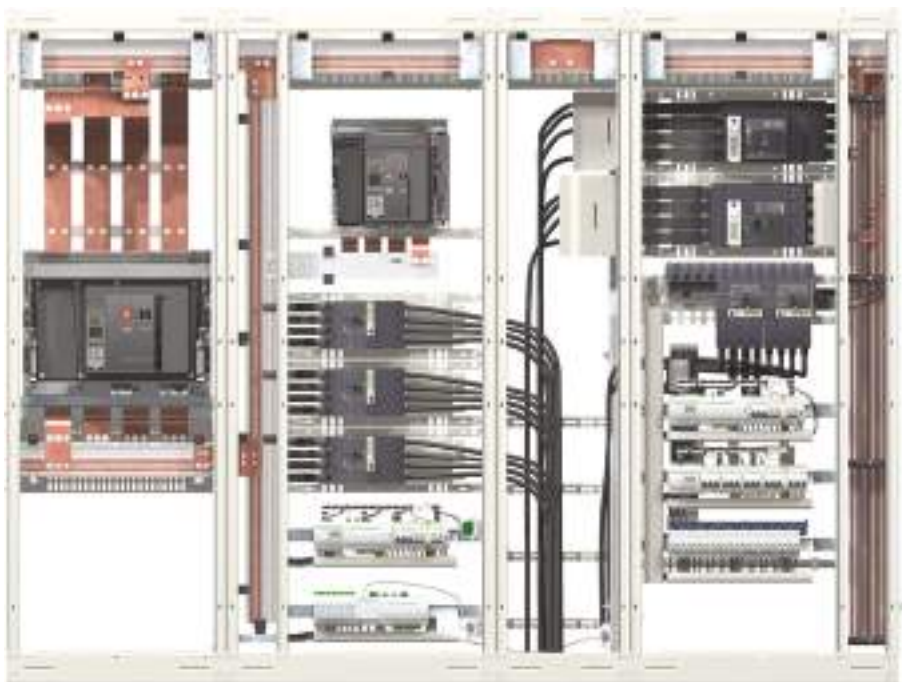
Prisma P takes into account the installation and connection conditions of Schneider Electric devices. The entire installation complies with standard IEC 60439-1. The result is a type tested switchboard.

In the following pages you will find a number of examples, validated for Prisma P switchboards, intended to assist in determining the busbars as well as the upstream and downstream connections for the installation.

The examples assume that the devices have already been selected. A complete process involves a number of steps before making final choices (transformer, conductors, protection, etc.).

Schneider Electric offers a number of tools to assist in designing a complete installation (technical guides, software).

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Busbar sizing

The factors that must be taken into account in determining the size of busbars include:

- the diversity factor.

Not all the loads supplied by a set of busbars are used at full rated load or at the same time. The diversity factor is the means to determine the maximum load current used to size the busbars.

Standard IEC 61439-1 and 2 §4.7 specifies the table below.

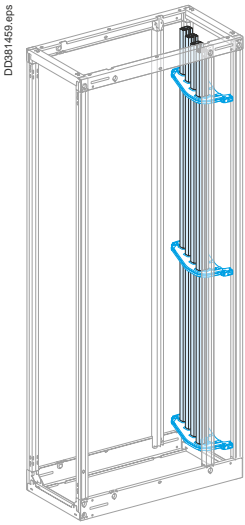
Number of circuits	Diversity factor
2 and 3	0,9
4 and 5	0,8
6 and 9	0,7
10 and more	0,6

- the degree of protection IP.
- the ambient temperature around the switchboard.

Designing Prisma P power circuits Presentation and approach

Electrical characteristics

Busbars



The maximum load current for a set of busbars is a function of the thermal environment.

The type and the size of the conductors must be determined in view of carrying the required currents taking into account the temperatures reached in the switchboard. These conductors are subjected to additional heat rise caused by the flowing current (joule effect) and the connected devices.

The temperatures reached by the conductors and the insulating materials, etc. must not exceed the maximum temperatures for which the products were designed.

Schneider Electric busbars and distribution blocks are sized to operate without any particular constraints for the assemblies in Prisma P switchboards operating under normal environmental conditions (standard switchboard configuration, 35 °C outside the switchboard, etc.).

To determine the **Linergy LGY busbars** or **Linergy LGYE** required, see the tables on pages D-12, D-14 et D-15.

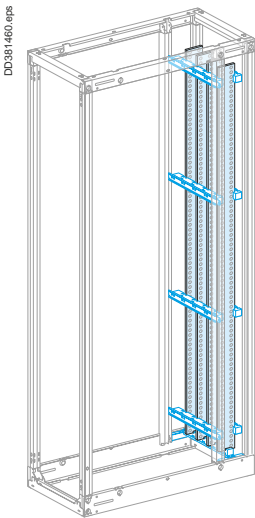
They can be used to determine:

- the type of Linergy LGY busbars or Linergy LGYE, as a function of:
 - the current
 - the IP value
 - the ambient temperature around the switchboard
 - ICW/1s.

■ **Linergy LGY busbars: $I \leq 1600$ A.**

■ **Double Linergy LGY busbars: 1600 A < $I \leq 3200$ A**

■ **Linergy LGYE busbars: ≤ 4000 A.**



To determine the required **Linergy BS busbars**, see the tables on pagepage D-13 (horizontal busbars) and page D-16 (vertical busbars).

They can be used to determine:

- the permissible current as a function of:
 - the size of the busbars
 - the number of bars
 - the ambient temperature around the switchboard
 - the IP value
 - Icw/1s.

■ **Linergy BS copper busbars 5 mm thick: $I \leq 1600$ A.**

■ **Linergy BS copper busbars 10 mm thick: $I \leq 3200$ A.**

Connection of devices ≥ 630 and busbar connections

To determine the **size of upstream and downstream connections** for devices, see the tables starting on pagepage D-18.

They can be used to determine:

- the size of copper busbars
- the maximum permissible current.

As a function of:

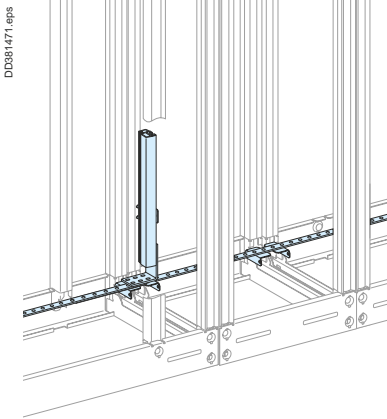
- the type of circuit breaker
- the IP value
- the ambient temperature around the switchboard
- the type of installation.

Designing Prisma P power circuits

Presentation and approach

Electrical characteristics

Designing the PE protective conductor



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The protective conductor must be sufficiently sized and securely installed in the switchboard to accept the thermal and electrodynamic constraints of the fault current.

It must be connected to the exposed conductive parts of the switchboard. It must be accessible to enable connections both in the factory and on site.

Optimised calculation method

Use the calculation equation indicated in standard IEC 61439-1 & 2:

$$S_{PE} = \frac{\sqrt{I^2 t}}{k}$$

- **SPE:** cross-sectional area of the PE in mm²
- **I:** value of the phase-to-earth fault current = 60 % of the value of the phase-to-phase fault current (IEC 61439-1 §8.2.4.2)
- **t:** time the fault current flows in seconds
- **k:** coefficient that depends on the type of metal, k = 143 for a copper conductor with PVC insulation.

Example:

- I_{sc} = 36 kA rms C the value of the phase-to-earth fault current = 60 % of the value of the phase-to-phase fault current (standard IEC 61439-1 and 2 § 8.4.3.2.3 and 10.11.5.6), i.e.: 36 x 0.6 = 21.6 kA
- maximum time delay for the control unit: 0,5 s
- k = 143 for copper conductors with PVC insulation.

The calculation is therefore:

$$S_{PE} = \frac{\sqrt{21600^2 \times 0,5}}{143} = 106,8 \text{ mm}^2$$

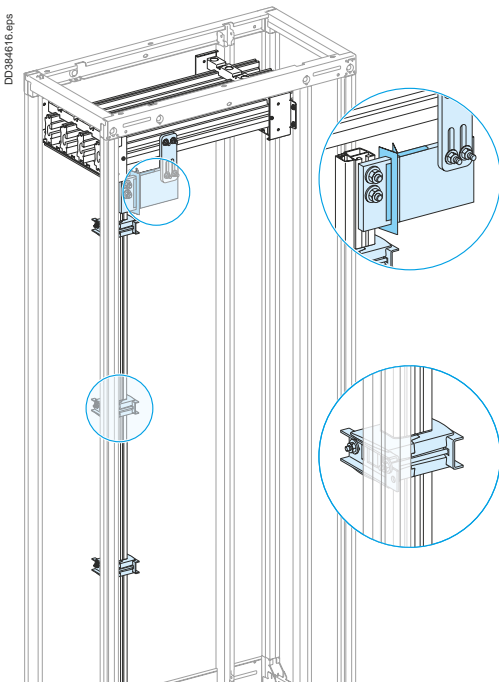
The PE conductor must therefore be a 25 x 5 mm bar (= 125 mm²).

Simplified method (based on the equation above)

Use the table below to determine the size of the PE conductor as a function of device short-circuit current I_{sc}.

Size of PE conductor	All Schneider Electric devices	
I _{sc} ≤ 40 kA	1 Linergy BS bar, 25 x 5 mm	
I _{sc} ≤ 65 kA	1 Linergy BS bar, 50 x 5 mm	Linergy LGY 630 - 04502
I _{sc} > 65 kA mais < 80 kA	1 Linergy BS bar, 50 x 5 mm	Linergy LGY 800 - 04503
I _{sc} = 100 kA	1 Linergy BS bar, 50 x 5 mm	Linergy LGY 1000 - 04505

Implementing the PEN protective conductor



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The size of the PEN is determined in the same manner as a neutral conductor, i.e.:

- for copper single-phase circuits or sized ≤ 16mm², it must be the same size as the phase conductors
- for copper three-phase circuits sized > 16 mm², it can be:

- the same size as the phase conductors
- smaller on the condition that:
 - the current likely to flow in the neutral during normal operation is less than the permissible current for the conductor
 - the power rating of single-phase loads does not exceed 10 % of the total rating.

The conductor must be accessible to enable connections both in the factory and on site, as well as checks on the tightness of connections.

Practical guidelines to install PEN

According to standard IEC 61439-1 and 2, the practical guidelines for implementing the PEN are the following:

- at the entry to the assembly, the PEN connection must be next to the phase connections
 - within the assembly, the PEN does not need to be insulated from the exposed conductive parts (except on sites where there is a risk of fire or explosion)
 - the size of the conductor must be at least equal to that of the neutral
 - the size must remain constant throughout the main busbars
 - the change from a TNC to a TNS system must take place at a single point in the switchboard, via a marked neutral-disconnection bar that is accessible and can be dismantled to facilitate the impedance measurement of the fault loop
 - after the TNS creation point, it is forbidden to recreate a TNC system.
- The PE and the neutral must meet their specific requirements.

Linergy LGY PEN kit

See page B-49.

Electrical characteristics

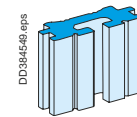
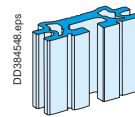
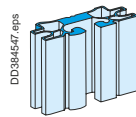
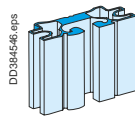
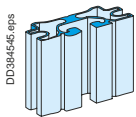
Permissible current and selection of Linergy LGYE busbars

Up to 4000 A

Linergy LGYE section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGYE 630	680	580	650	550	630	530	590	500	550	470	520	■
Linergy LGYE 800	860	740	830	710	800	680	750	630	700	600	660	■
Linergy LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	■
Linergy LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	■
Linergy LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	■
Linergy LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	■
Linergy LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	■
Linergy LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	■
Linergy LGYE 4000	3800	3510	3710	3430	3620	3350	3450	3180	3280	3020	3120	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



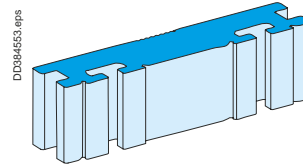
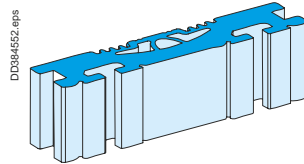
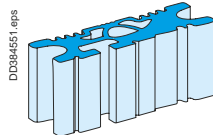
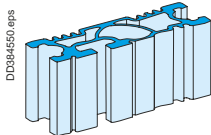
Section 630 A.
Cat. No. 04560.

Section 800 A.
Cat. No. 04561.

Section 1000 A.
Cat. No. 04562.

Section 1250 A.
Cat. No. 04563.

Section 1600 A.
Cat. No. 04564.



Section 2000 A.
Cat. No. 04565.

Section 2500 A.
Cat. No. 04566.

Section 3200 A.
Cat. No. 04567.

Section 4000 A.
Cat. No. 04568.

Electrical characteristics

Permissible current and selection of horizontal busbar

The goal is to optimise busbar size according to the installation and operating criteria.

Up to 1600 A

Linergy BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 60 x 5	890	840	850	790	800	750	760	700	710	650	660	■
1 Linergy BS bar, 80 x 5	1130	1050	1080	990	1000	900	970	870	910	810	860	■
2 Linergy BS bars, 60 x 5	1580	1420	1500	1350	1400	1250	1350	1180	1260	1090	1180	■
2 Linergy BS bars, 80 x 5	2010	1820	1920	1720	1800	1600	1720	1510	1610	1390	1510	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Up to 3200 A

Linergy BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 50 x 10	1330	1220	1260	1160	1200	1080	1130	1010	1060	940	990	■
1 Linergy BS bar, 60 x 10	1550	1400	1470	1320	1400	1250	1320	1160	1240	1070	1160	■
1 Linergy BS bar, 80 x 10	1990	1800	1890	1700	1800	1600	1700	1500	1600	1390	1500	■
2 Linergy BS bars, 50 x 10	2270	2090	2160	1980	2050	1850	1930	1740	1810	1610	1690	■
2 Linergy BS bars, 60 x 10	2550	2270	2420	2140	2300	2000	2170	1870	2030	1720	1900	■
2 Linergy BS bars, 80 x 10	3110	2820	2970	2660	2820	2500	2660	2330	2500	2160	2330	■
2 Linergy BS bars, 100 x 10	3650	3280	3490	3100	3300	2900	3130	2720	2950	2510	2750	■
2 Linergy BS bars, 120 x 10	4160	3760	3960	3550	3760	3340	3560	3100	3340	2880	3120	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example:

Two 50 x 10 mm bars can be used for a 2160 A current with an IP ≤ 31 and an ambient temperature of 30 °C around the switchboard.

Where possible, use of 10 mm bars is worthwhile in terms of the In/Isc:

- gain in time during switchboard mounting given, where applicable, the lesser number of bars installed
- for short-circuits, the rigidity of the bars means fewer busbar supports.

Recommendation:

Use 5 mm bars for In ≤ 1600 A and low I_{cw} values (40 kA rms).

Use 10 mm bars for In > 1600 A and medium to high I_{cw} values (> 40 kA rms).

Note: the values indicated above have been validated for Prisma P switchboards.

Designing vertical busbars

Linerigy LGY

Electrical characteristics

Permissible current and selection of Linerigy LGY busbars

The goal is to optimise busbar size according to the installation and operating criteria.

Up to 3200 A

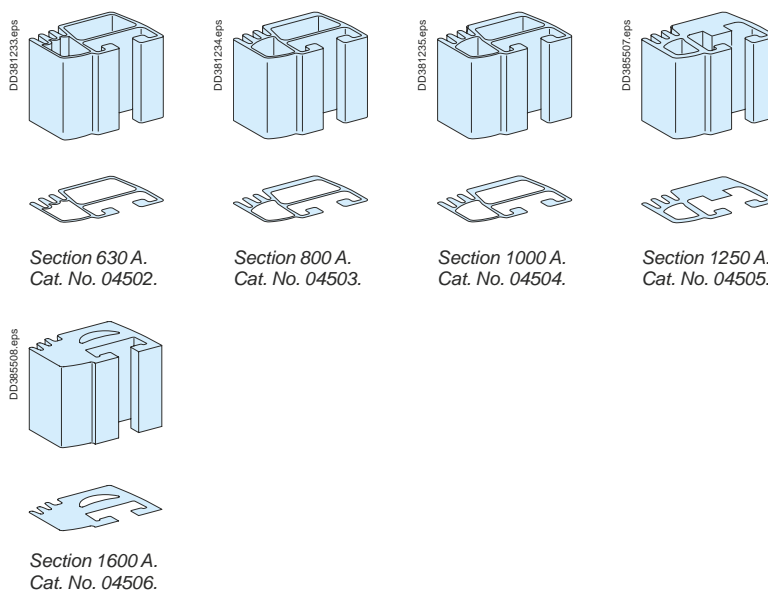
Linerigy LGY section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linerigy LGY 630	750	680	710	630	680	590	630	550	590	530	550	■
Linerigy LGY 800	920	840	880	800	840	760	800	720	760	680	720	■
Linerigy LGY 1000	1140	1040	1090	990	1040	950	990	900	950	850	900	■
Linerigy LGY 1250	1410	1290	1350	1230	1290	1170	1230	1100	1170	1050	1100	■
Linerigy LGY 1600	1800	1650	1720	1580	1650	1480	1580	1390	1480	1320	1390	■
Linerigy LGY 2000 (2 x 1000)	2200	2000	2100	1900	2000	1820	1900	1720	1820	1620	1720	■
Linerigy LGY 2500 (2 x 1250)	2740	2500	2620	2380	2500	2260	2380	2120	2260	2020	2120	■
Linerigy LGY 3200 (2 x 1600)	3480	3200	3340	3060	3200	2920	3060	2780	2920	2640	2780	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example:

A Linerigy LGY channelled bar can be used for a 1650 A current with an IP ≤ 31 and an ambient temperature around the switchboard of 35 °C.



Note: the values indicated above have been validated for Prisma P switchboards.

Electrical characteristics

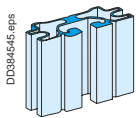
Permissible current and selection of Lineryg LGYE busbars

Up to 4000 A

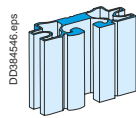
Lineryg LGYE section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Lineryg LGYE 630	680	580	650	550	630	530	590	500	550	470	520	■
Lineryg LGYE 800	860	740	830	710	800	680	750	630	700	600	660	■
Lineryg LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	■
Lineryg LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	■
Lineryg LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	■
Lineryg LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	■
Lineryg LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	■
Lineryg LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	■
Lineryg LGYE 4000	3800	3510	3710	3430	3620	3350	3450	3180	3280	3020	3120	■

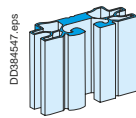
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



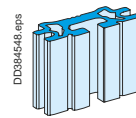
Section 630 A.
Cat. No. 04560.



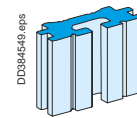
Section 800 A.
Cat. No. 04561.



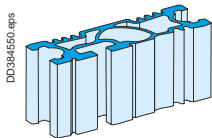
Section 1000 A.
Cat. No. 04562.



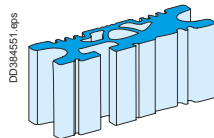
Section 1250 A.
Cat. No. 04563.



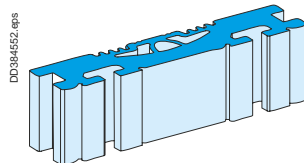
Section 1600 A.
Cat. No. 04564.



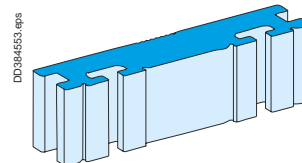
Section 2000 A.
Cat. No. 04565.



Section 2500 A.
Cat. No. 04566.



Section 3200 A.
Cat. No. 04567.



Section 4000 A.
Cat. No. 04568.

Designing vertical busbars

Linergy BS

Electrical characteristics

Permissible current and selection of vertical busbar

The goal is to optimise busbar size according to the installation and operating criteria.

Up to 1600 A

Linergy BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 60 x 5	890	840	850	790	800	750	760	700	710	650	660	■
1 Linergy BS bar, 80 x 5	1130	1050	1080	990	1000	900	970	870	910	810	860	■
2 Linergy BS bars, 60 x 5	1580	1420	1500	1350	1400	1250	1350	1180	1260	1090	1180	■
2 Linergy BS bars, 80 x 5	2010	1820	1920	1720	1800	1600	1720	1510	1610	1390	1510	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Up to 3200 A

Linergy BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 50 x 10	1330	1220	1260	1160	1200	1080	1130	1010	1060	940	990	■
1 Linergy BS bar, 60 x 10	1550	1400	1470	1320	1400	1250	1320	1160	1240	1070	1160	■
1 Linergy BS bar, 80 x 10	1990	1800	1890	1700	1800	1600	1700	1500	1600	1390	1500	■
1 Linergy BS bar, 100 x 10	2370	2150	2260	2030	2150	1900	2030	1780	1900	1650	1780	■
2 Linergy BS bars, 50 x 10	2270	2090	2160	1980	2050	1850	1930	1740	1810	1610	1690	■
2 Linergy BS bars, 60 x 10	2550	2270	2420	2140	2300	2000	2170	1870	2030	1720	1900	■
2 Linergy BS bars, 80 x 10	3110	2820	2970	2660	2820	2500	2660	2330	2500	2160	2330	■
2 x 1 Linergy BS bar, 80 x 10	3540	3200	3370	3020	3200	2820	3020	2650	2840	2450	2650	■
2 Linergy BS bars, 100 x 10	3650	3280	3490	3100	3300	2900	3130	2720	2950	2510	2750	■
2 Linergy BS bars, 120 x 10	4160	3760	3960	3550	3760	3340	3560	3100	3340	2880	3120	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example

Two 80 x 10 mm bars can be used for a 2820 A current with an IP ≤ 31 and an ambient temperature of 35°C around the switchboard.

Two 80 x 10 mm bars installed separately in two busbar compartments can be used for a 3200 A current with an IP ≤ 31 and an ambient temperature of 35°C around the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

Designing rear busbars

Linergy LGYE, Linergy BS

Electrical characteristics

Permissible current and selection of vertical busbar

The goal is to optimise busbar size according to the installation and operating criteria.

Up to 1600 A

Linergy LGY section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGY 630	750	680	710	630	680	590	630	550	590	530	550	■
Linergy LGY 800	920	840	880	800	840	760	800	720	760	680	720	■
Linergy LGY 1000	1140	1040	1090	990	1040	950	990	900	950	850	900	■
Linergy LGY 1250	1410	1290	1350	1230	1290	1170	1230	1100	1170	1050	1100	■
Linergy LGY 1600	1800	1650	1720	1580	1650	1480	1580	1390	1480	1320	1390	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Up to 1600 A

Linergy BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 60 x 5	890	840	850	790	800	750	760	700	710	650	660	■
1 Linergy BS bar, 80 x 5	1130	1050	1080	990	1000	900	970	870	910	810	860	■
2 Linergy BS bars, 60 x 5	1580	1420	1500	1350	1400	1250	1350	1180	1260	1090	1180	■
2 Linergy BS bars, 80 x 5	2010	1820	1920	1720	1800	1600	1720	1510	1610	1390	1510	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Up to 3200 A

Linergy BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 50 x 10	1330	1220	1260	1160	1200	1080	1130	1010	1060	940	990	■
1 Linergy BS bar, 60 x 10	1550	1400	1470	1320	1400	1250	1320	1160	1240	1070	1160	■
1 Linergy BS bar, 80 x 10	1990	1800	1890	1700	1800	1600	1700	1500	1600	1390	1500	■
2 Linergy BS bars, 80 x 10	2270	2090	2160	1980	2050	1850	1930	1740	1810	1610	1690	■
2 Linergy BS bars, 60 x 10	2550	2270	2420	2140	2300	2000	2170	1870	2030	1720	1900	■
2 Linergy BS bars, 80 x 10	3110	2820	2970	2660	2820	2500	2660	2330	2500	2160	2330	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

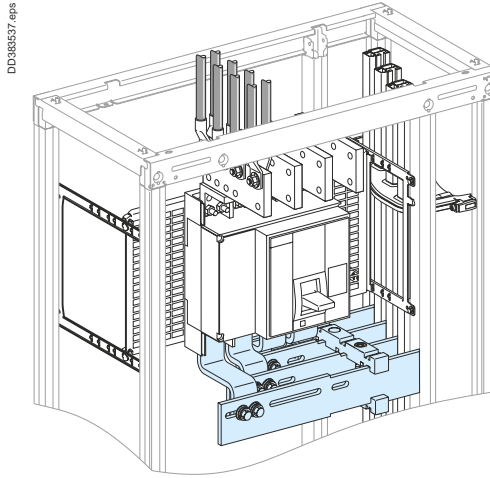
Designing connections between a device and busbars

Prefabricated connections for Compact NS630b to NS1600

Electrical characteristics

Compact NS630b to NS1600 Vertical mounting

Front or rear connection
Top or bottom incoming
Vertical busbars on the left or right
Linergy LGY busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical Compact NS630b/NS1600, fixed or withdrawable, and Linergy LGY busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connection

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	3P cat. no. 04485	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. 04486													
NS800	3P cat. no. 04485	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. 04486													
NS1000	3P cat. no. 04485	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. 04486													
NS1250	3P cat. no. 04485	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■	
	4P cat. no. 04486													
NS1600	3P cat. no. 04487	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	■	
	4P cat. no. 04488													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Withdrawable

Prefabricated connection

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	3P cat. no. 04477	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. 04478													
NS800	3P cat. no. 04477	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. 04478													
NS1000	3P cat. no. 04477	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. 04478													
NS1250	3P cat. no. 04477	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■	
	4P cat. no. 04478													
NS1600	3P cat. no. 04491	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	■	
	4P cat. no. 04492													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example:

For a fixed Compact NS1600, 4P, where the ambient temperature around the switchboard is 35°C and the IP > 31:
the maximum permissible current for the prefabricated connection (04488) is 1450 A.

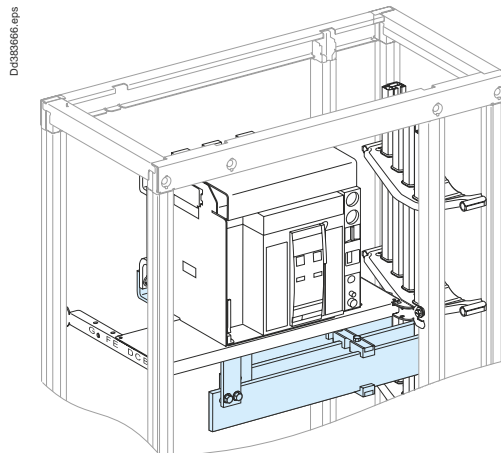
Designing connections between a device and busbars

Prefabricated connections for Masterpact 06-16

Electrical characteristics

Masterpact NT 06 to 16 Vertical mounting

Front or rear connection
Top or bottom incoming
Vertical busbars on the left or right
Linergy LGY busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical Masterpact NT06/NT16, fixed or drawout, and Linergy LGY busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connection

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	3P cat. no. 04475	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. 04476													
NT08	3P cat. no. 04475	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. 04476													
NT10	3P cat. no. 04475	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. 04476													
NT12	3P cat. no. 04475	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	■
	4P cat. no. 04476													
NT16	3P cat. no. 04489	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	1420	■
	4P cat. no. 04490													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Withdrawable

Prefabricated connection

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	3P cat. no. 04477	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. 04478													
NT08	3P cat. no. 04477	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. 04478													
NT10	3P cat. no. 04477	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. 04478													
NT12	3P cat. no. 04477	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	■
	4P cat. no. 04478													
NT16	3P cat. no. 04491	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	■
	4P cat. no. 04492													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example:

For a drawout Masterpact NT16, 4P, where the ambient temperature around the switchboard is 35°C and the IP > 31: the maximum permissible current for the prefabricated connection (04492) is 1380 A.

Note: the values indicated above have been validated for Prisma P switchboards.

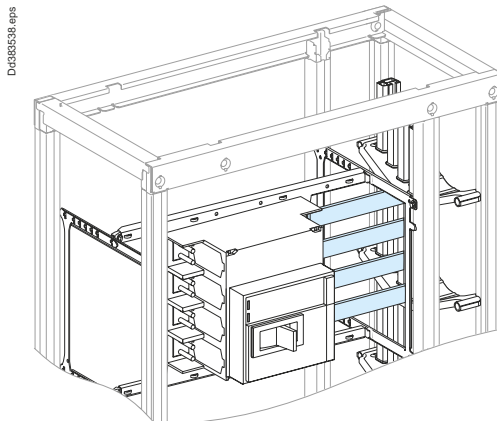
Designing connections between a device and busbars

Prefabricated connections for Compact NS630b to NS1000

Electrical characteristics

Compact NS630b à NS1000 Horizontal mounting

Front or rear connection
Left or right incoming
Linergy LGY vertical busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a horizontal Compact NS630b/NS1600, fixed or withdrawable, and Linergy LGY busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connection

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	3P cat. no. 04473	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. 04474													
NS800	3P cat. no. 04473	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. 04474													
NS1000	3P cat. no. 04473	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. 04474													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

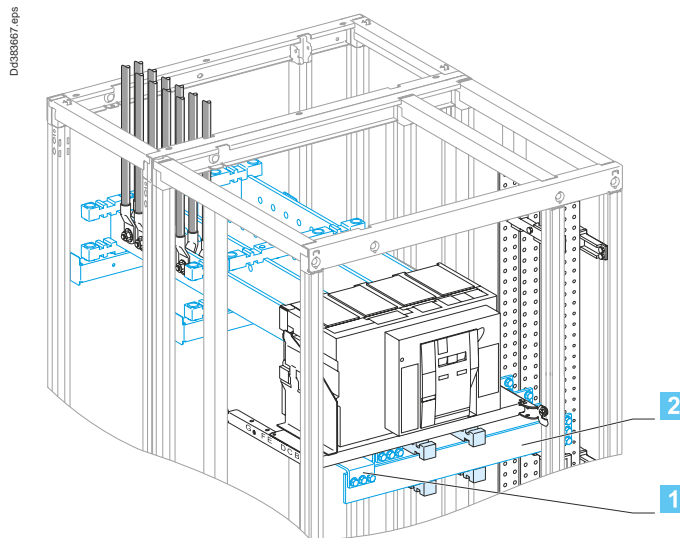
Designing connections between a device and busbars

Fixed Masterpact 08-16

Electrical characteristics

Masterpact NW 08 to 16 Fixed

Vertical busbars on the left or right
Linergy LGY, BS busbars
Connections drawings supplied by
Schneider Electric



- 1 Liaison
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed Masterpact NW08/16, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard ⁽¹⁾												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470		

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

⁽¹⁾ In the case of a door mounted at the rear of cubicle, add 10 °C.

Note: the values indicated above have been validated for Prisma P switchboards.

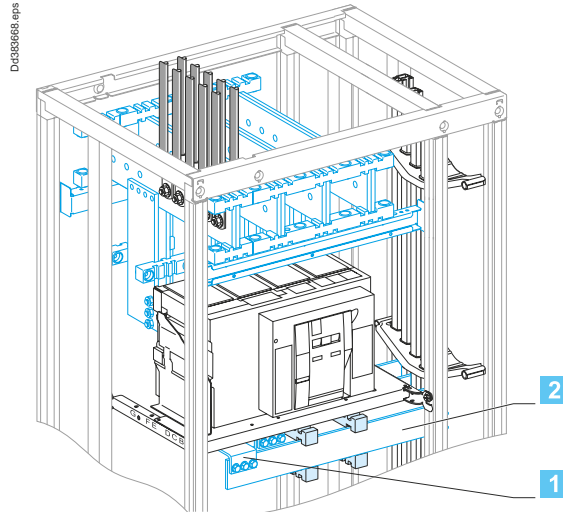
Designing connections between a device and busbars

Fixed Masterpact 08-32

Electrical characteristics

Masterpact NW 08 to 32 Fixed

Vertical busbars on the left or right
Linergy LGYE, LGY, BS busbars
Connections drawings supplied by
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed Masterpact NW08/32, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NW10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NW12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
NW16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	1470
NW20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950	1950
NW25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460	2460
NW32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820	2820

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NW10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NW12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
NW16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	1470
NW20	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950	1950
NW25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460	2460
NW32	Size per phase	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820	2820

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

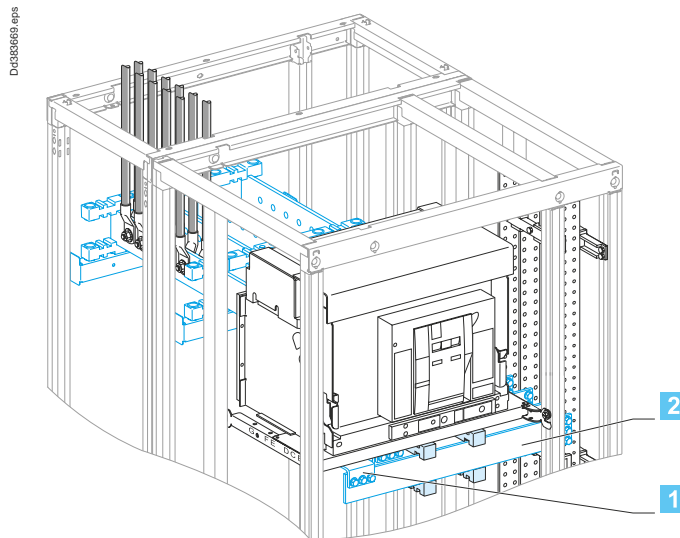
Designing connections between a device and busbars

Drawout Masterpact 08-16

Electrical characteristics

Masterpact NW 08 to 16 Drawout

Vertical busbars on the left or right
 Linergy LGY, BS busbars
 Connections drawings supplied by
 Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout Masterpact NW08/16, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard ⁽¹⁾												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1200	1230	1160	1200	1200	
NW16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1200	1230	1160	1200	1200	
NW16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) In the case of a door mounted at the rear of cubicle, add 10 °C.

Note: the values indicated above have been validated for Prisma P switchboards.

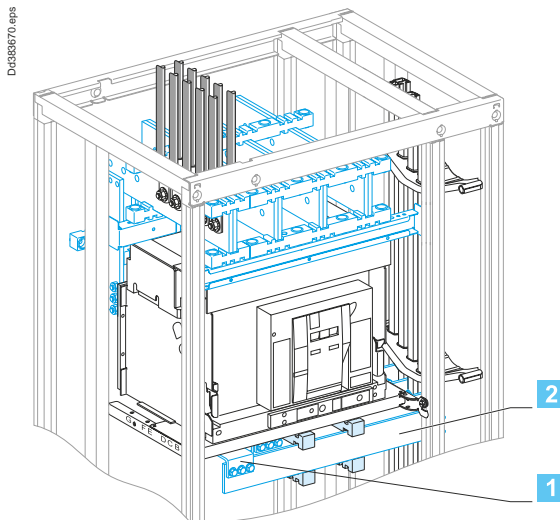
Designing connections between a device and busbars

Drawout Masterpact 08-32

Electrical characteristics

Masterpact NW 08 to 32 Drawout

Vertical busbars on the left or right
 Linergy LGYE, LGY, BS busbars
 Connections drawings supplied by
 Schneider Electric



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout Masterpact NW08/32, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140		
NW16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330		
NW20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830		
NW25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140		
NW32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140		
NW16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330		
NW20	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830		
NW25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140		
NW32	Size per phase	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

Designing connections between a device and busbars

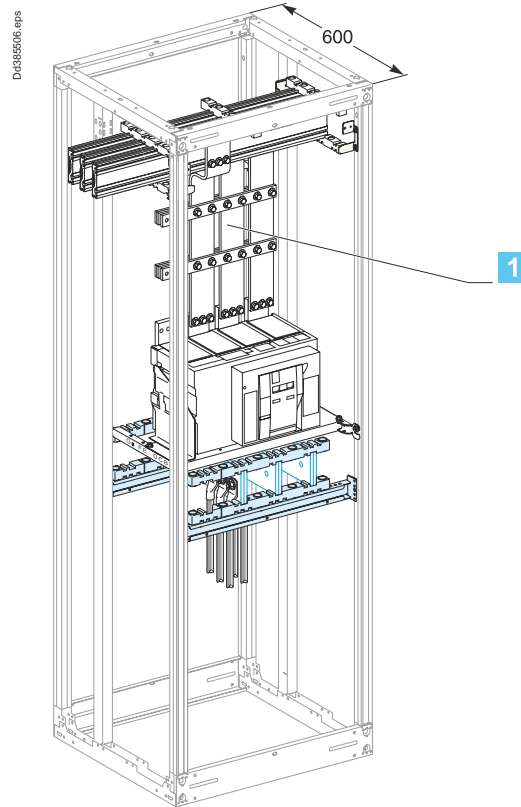
Dedicated cubicle

Fixed Masterpact 08-32

Electrical characteristics

Masterpact NW 08 to 32 Fixed

Dedicated cubicle
Linery LGYE, BS busbars
Connections drawings supplied by
Schneider Electric



Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	1470	
NW20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950	1950	
NW25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460	2460	
NW32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820	2820	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: contact Schneider Electric for 4000 A dedicated cubicle

Designing connections between a device and busbars

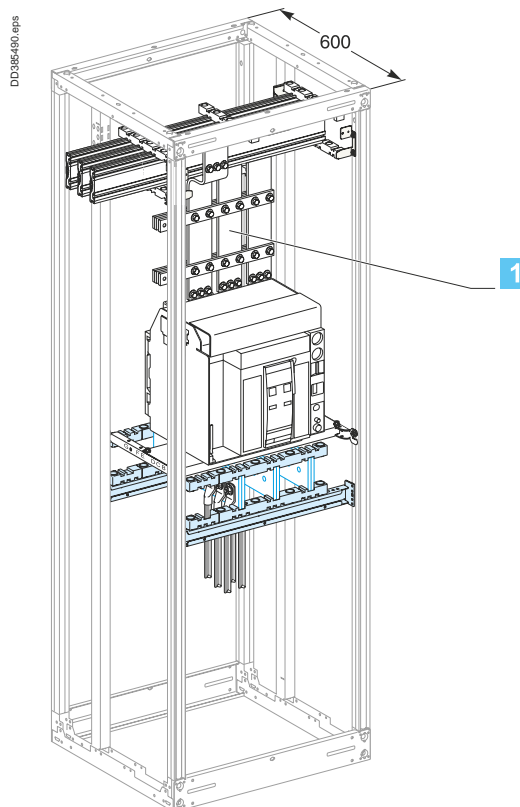
Dedicated cubicle

Drawout Masterpact 08-32

Electrical characteristics

Masterpact NW 08 to 32 Drawout

Dedicated cubicle
 Linergy LGYE, BS busbars
 Connections drawings supplied by
 Schneider Electric



Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NW10	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NW12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140	1140
NW16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330
NW20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	1830
NW25	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	2140
NW32	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	2530

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: contact Schneider Electric for 4000 A dedicated cubicle

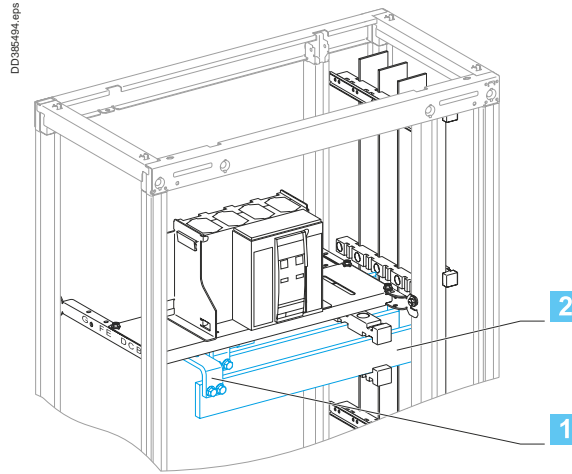
Designing connections between a device and busbars

Fixed Masterpact 06-16

Electrical characteristics

Masterpact NT 06 to 16 Fixed

Vertical busbars on the left or right
Linergy BS busbars
Connections drawings supplied by
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed Masterpact NT06/NT16, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	Size per phase	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NT12	Size per phase	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1200	1250	1250	
NT16 ⁽¹⁾	Size per phase	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NT12	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1200	1250	1250	
NT16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: the values indicated above have been validated for Prisma P switchboards.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NT12	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1180	1230		
NT16 ⁽¹⁾	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000		
NT12	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160		
NT16	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

⁽¹⁾ Make the neutral connection with one bar, 50 x 10 mm.

Note: the values indicated above have been validated for Prisma P switchboards.

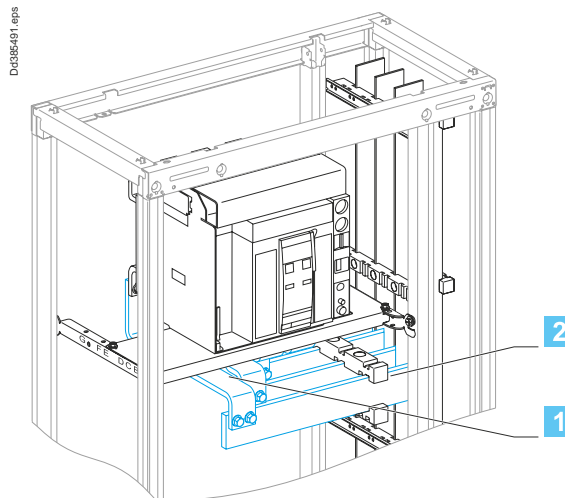
Designing connections between a device and busbars

Drawout Masterpact 06-16

Electrical characteristics

Masterpact NT 06 to 16 Drawout

Vertical busbars on the left or right
 Linergy BS busbars
 Connections drawings supplied by
 Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout Masterpact NT06/NT16, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	Size per phase	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	1000	
NT12	Size per phase	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	1180	
NT16 ⁽¹⁾	Size per phase	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	1000	
NT12	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	1180	
NT16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: the values indicated above have been validated for Prisma P switchboards.

Designing connections between a device and busbars

Drawout Masterpact 06-16

Electrical characteristics

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630
NT08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NT10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	1000
NT12	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	1160
NT16 ⁽¹⁾	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630
NT08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NT10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	1000
NT12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	1160
NT16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

⁽¹⁾ Make the neutral connection with one bar, 50 x 10 mm.

Note: The values indicated above have been validated for Prisma P switchboards.

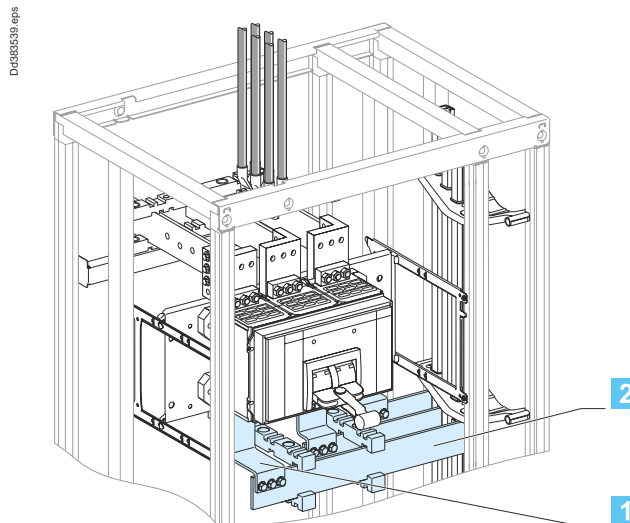
Designing connections between a device and busbars

Fixed Compact NS1600b to NS3200

Electrical characteristics

Compact NS1600b/3200 Fixed

Vertical busbars on the left or right
Linergy LGY busbars, BS
Busbar drawings supplied by
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed Compact NS1600b/3200, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS1600b	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	
NS2000	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	
NS2500	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	
NS3200	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	2860	2630	2790	2530	2720	2430	2630	2350	2530	2270	2430	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS1600b	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	
NS2000	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	
NS2500	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	
NS3200	Size per phase	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	■
	I (A)	2860	2630	2790	2530	2720	2430	2630	2350	2530	2270	2430	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

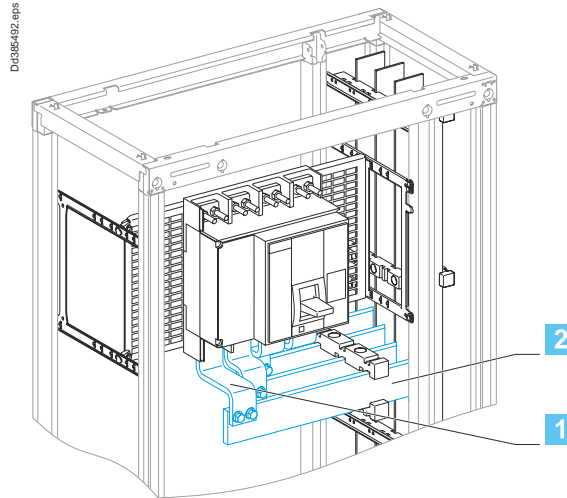
Designing connections between a device and busbars

Fixed Compact NS630b to NS1600

Electrical characteristics

Compact NS630b to NS1600 Fixed

Vertical busbars on the left or right
Linergy BS busbars
Busbar drawings supplied by
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed Compact NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
NS1250	Size per phase	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	
NS1600 (1)	Size per phase	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
NS1250	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	
NS1600	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: the values indicated above have been validated for Prisma P switchboards.

Designing connections between a device and busbars

Fixed Compact NS630b to NS1600

Electrical characteristics

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	
NS1250	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	1180		
NS1600 ⁽¹⁾	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000		
NS1250	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	1180		
NS1600	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with one bar, 50 x 10 mm.

Note: the values indicated above have been validated for Prisma P switchboards.

Designing connections between a device and busbars

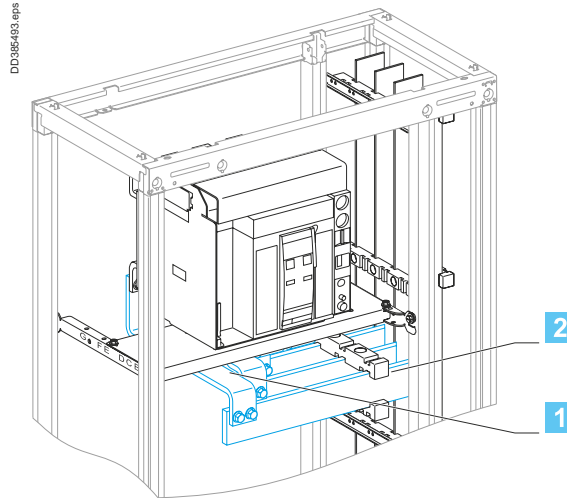
Withdrawable

Compact NS630b to NS1600

Electrical characteristics

Compact NS630b to NS1600 Withdrawable

Vertical busbars on the left or right
Linergy BS busbars
Busbar drawings supplied by
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, withdrawable Compact NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NS1250	Size per phase	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	
NS1600 ⁽¹⁾	Size per phase	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NS1250	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	
NS1600	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: the values indicated above have been validated for Prisma P switchboards.

Designing connections between a device and busbars

Withdrawable

Compact NS630b to NS1600

Electrical characteristics

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NS1250	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	1160	
NS1600 ⁽¹⁾	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
NS1250	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	1160	
NS1600	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

⁽¹⁾ Make the neutral connection with one bar, 50 x 10 mm.

Note: the values indicated above have been validated for Prisma P switchboards.

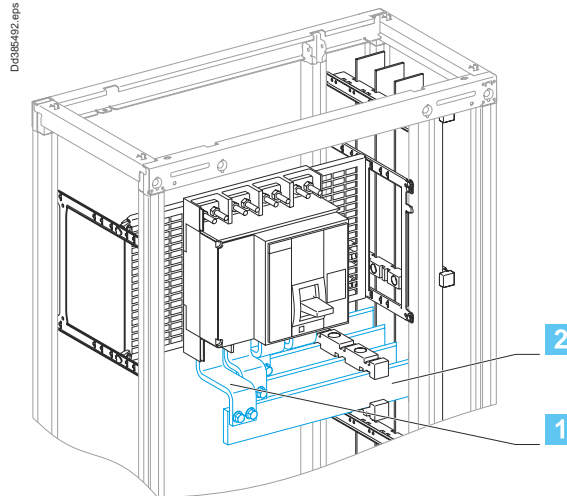
Designing connections between a device and busbars

Fixed Compact INS-INV630b to 2500

Electrical characteristics

Compact INS-INV630b to 2500 Fixed

Vertical busbars on the left or right
 Linergy LGYE busbar, Linergy BS bars
 Busbar drawings supplied by
 Schneider Electric



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed Compact, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

Device	Permissible current (A)	Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
INS-INV630b	Size per phase	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
INS-INV800	Size per phase	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
INS-INV1000	Size per phase	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
INS-INV1250	Size per phase	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	
INS-INV1600	Size per phase	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

Device	Permissible current (A)	Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
INS-INV630b	Size per phase	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
INS-INV800	Size per phase	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
INS-INV1000	Size per phase	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
INS-INV1250	Size per phase	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	
INS-INV1600	Size per phase	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
INS-INV630b	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
INS-INV800	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
INS-INV1000	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	
INS-INV1250	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	1180		
INS-INV1600	Size per phase	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400		
INS-INV2000	Size per phase	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830		
INS-INV2500	Size per phase	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
INS-INV630b	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
INS-INV800	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
INS-INV1000	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000		
INS-INV1250	Size per phase	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	1180		
INS-INV1600	Size per phase	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400		
INS-INV2000	Size per phase	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830		
INS-INV2500	Size per phase	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

Designing connections between a device and busbars

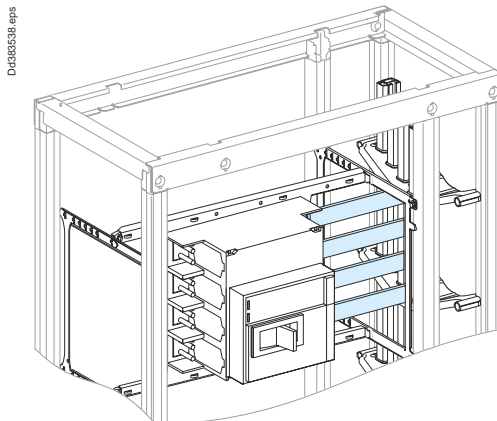
Horizontal, fixed

Compact NS630b to NS1000

Electrical characteristics

Compact NS630b to NS1000 Horizontal mounting

Vertical Linergy LGYE, LGY, BS busbars



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a horizontal, fixed Compact NS630b/NS1000, taking into account the ambient temperature around the switchboard and the IP value.

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

Electrical characteristics

Flexible copper bars with an insulating sheath

Switchboards that comply with standard IEC 61439-1/2

It is imperative to use the values indicated below that have been validated for the installation of devices in Prisma switchboards.

The parameters determining the size of flexible bars are:

- the environment in which the devices are installed:
 - position in the enclosure
 - dimensions of other conductors in the circuit
 - ambient temperature around the switchboard
- the characteristics of the connected devices:
 - device heat losses
 - the type of installation (horizontal or vertical)
 - the type of device (fixed or withdrawable).

Only the equipment manufacturer with in-depth knowledge on:

- the characteristics of the installed devices
- the configuration of the installation in the enclosure can provide the correct sizes of flexible bars for a given permissible current.

Insulated, flexible bars make for easy, fast and flexible implementation up to 630 A, but higher ratings require sizes that cancel these advantages.

For high I_{sc} values, it is advised to use rigid bars which require fewer supports.

Insulated flexible bars are better than cables, they offer:

- better insulation temperature withstand (125 °C for bars, 105 °C for cables) and a larger exchange surface for an equivalent size, i.e. a smaller size for a given current
- greater rigidity offering better electrodynamic characteristics for short-circuit currents
- no intermediate parts (lugs) for a direct connection between the device and the busbars therefore less temperature rise and less risk of error
- fast implementation of prefabricated connections already cut to length, formed and drilled.
- length limited to 500 mm.

Technical characteristics

- thickness of the insulation: variable depending on the bar size, 2 mm on average
- rated insulation level U_i = 1000 V
- impulse withstand voltage U_{imp} = 12 kV
- maximum withstand temperature of insulating material = 125 °C.

Connection

In all cubicles with IP ≤ 55 :

- the switchboard internal temperature is 60 °C
- the withstand temperature of the insulating material is 125 °C.

If the withstand temperature of the insulation is only 105 °C,

use the next largest size of flexible bar given for standard insulated flexible bars (withstand temperature = 125 °C)

The bar sizes indicated below take into account the derating curves of devices.

Connection of devices to busbars

Device	INS125	INS160	INS250	INS320 INS400	INS500 INS630	INF250 ISFT250	INF400 ISFT400	INF630 ISFT630
S (mm)	20 x 2	20 x 2	20 x 3	32 x 5	32 x 6	24 x 5	32 x 5	32 x 8

Connection of distribution blocks to busbars

Distribution block	Linergy FM 200 A	Linergy FC 3P	Linergy FC 4P
S (mm)	20 x 3	32 x 8	32 x 8

Connection of disconnectors, Linergy TB, connections, busbars to busbars

I max. (60 °C)	200 A	250 A	400 A	400 A	480 A	520 A	580 A	660 A
S (mm)	20 x 2	20 x 3	24 x 5	24 x 5	24 x 6	32 x 5	32 x 6	32 x 8

Compact NSX100 to NSX630

Insulated flexible copper bars (withstand temperature = 125 °C)

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 31							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	125	125	125	122	119	115
NSX160 ⁽¹⁾ TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	156	152	148
NSX250 ⁽¹⁾ TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	160	160	160
NSX250 ⁽²⁾ STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	250	245	237	230	225	220
NSX400B/F/N/H/S/L fixed	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I _{nc} (A)	400	400	400	390	380	370
NSX400B/F/N/H/S/L with Vigi	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I _{nc} (A)	400	390	380	370	360	350
NSX400B/F/N/H/S/L withdrawable	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I _{nc} (A)	400	390	380	370	360	350
NSX630B/F/N/H/S/L fixed	Size per phase	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6
	I _{nc} (A)	630	615	600	585	570	550
NSX630B/F/N/H/S/L with Vigi or withdrawable	Size per phase	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8
	I _{nc} (A)	570	550	535	520	505	490
IP > 31							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	125	125	125	122	119	115
NSX160 ⁽¹⁾ TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	156	152	148
NSX250 ⁽¹⁾ TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	238	231	225	219	213	207
NSX100 STR	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I _{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	160	160	160	160	160	160
NSX250 ⁽²⁾ STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I _{nc} (A)	237	230	225	220	215	210
NSX400B/F/N/H/S/L fixed	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I _{nc} (A)	400	400	400	390	380	370
NSX400B/F/N/H/S/L with Vigi	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I _{nc} (A)	400	390	380	370	360	350
NSX400B/F/N/H/S/L withdrawable	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I _{nc} (A)	400	390	380	370	360	350
NSX630B/F/N/H/S/L fixed	Size per phase	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6
	I _{nc} (A)	600	585	570	550	535	520
NSX630B/F/N/H/S/L with Vigi or withdrawable	Size per phase	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8
	I _{nc} (A)	535	520	505	490	475	420

(1) For a withdrawable NSX160 or NSX250 equipped with a Vigi or an insulation-monitoring module, multiply the I_n values by 0.9.

(2) For a withdrawable NSX250 equipped with a Vigi or an insulation-monitoring module, multiply the I_n values by 0.86.

To connect a Compact NSX250 to a Linergy BW busbars, use a 24 x 5 flexible bar cat. no. 04746.

Note: the values indicated above have been validated for Prisma P switchboards.

Cables: practical guidelines

This section doesn't concern customer's loads connection (see IEC 61439-1, IEC 60364).

Schneider Electric provides cabling recommendations according to the rating of the circuit breaker.

The size of cables must be selected according to:

- the level of current
- the ambient temperature around the conductors
- the degree of protection for the switchboard.

The tables below take into account the installation conditions for each type of device (permissible temperature at connection terminals, etc.).

They follow the temperature derating values for installed devices in all cubicles with cover panels rated IP ≤ 55.

- switchboard internal temperature 60 °C
- connections using copper cables.

The withstand temperature of insulating material of cable = 105°C.

Compact NSX100 to NSX630

Copper cable, withstand temperature = 105 °C

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 31							
NSX100 TMD-TMG	Size per phase	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
	I _{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm ²	70 mm ²	70 mm ²	70 mm ²	70 mm ²	70 mm ²
	I _{nc} (A)	125	125	125	122	119	115
NSX160 ⁽¹⁾ TMD-TMG	Size per phase	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²
	I _{nc} (A)	160	160	160	156	152	148
NSX250 ⁽¹⁾ TMD-TMG	Size per phase	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²
	I _{nc} (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
	I _{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²
	I _{nc} (A)	160	160	160	160	160	160
NSX250 ⁽²⁾ STR	Size per phase	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²
	I _{nc} (A)	250	245	237	230	225	220
IP > 31							
NSX100 TMD-TMG	Size per phase	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
	I _{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm ²	70 mm ²	70 mm ²	70 mm ²	70 mm ²	70 mm ²
	I _{nc} (A)	125	125	125	122	119	115
NSX160 ⁽¹⁾ TMD-TMG	Size per phase	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²
	I _{nc} (A)	160	160	160	156	152	148
NSX250 ⁽¹⁾ TMD-TMG	Size per phase	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²
	I _{nc} (A)	237	230	225	220	215	210
NSX100 STR	Size per phase	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
	I _{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²	95 mm ²
	I _{nc} (A)	160	160	160	160	160	160
NSX250 ⁽²⁾ STR	Size per phase	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²	120 mm ²
	I _{nc} (A)	237	230	225	220	215	210

(1) For a withdrawable NSX160 or NSX250 equipped with a Vigi or an insulation-monitoring module, multiply the I_n values by 0.9.

(2) For a withdrawable NSX250 equipped with a Vigi or an insulation-monitoring module, multiply the I_n values by 0.86.

Note: the values indicated above have been validated for Prisma P switchboards.

Note: Schneider Electric recommends connecting Compact NSX400/630 circuit breakers with insulated flexible bars or rigid bars (see page D-40).

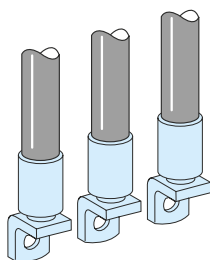
Electrical characteristics

Tubular lugs for incoming connection blocks

Maximum size of lugs for connection to the different incoming connection blocks.

	Standard Cu lugs	Narrow Cu lugs	Narrow bimetal lugs
Incoming connection block for Compact NSX-INS250 supplied via the top or the bottom, cat. no. 04066 et 04067	150 mm ²	240 mm ²	185 mm ²
In-duct incoming connection block for Compact NSX630 supplied via the top or the bottom cat. no. 04076	240 mm ²	300 mm ²	300 mm ²

DD382788.eps



Narrow bimetal lugs

Cat. no. selection

Cat. no.	Cable size (mm ²)	Quantity
Lugs for aluminium cable ⁽¹⁾		
29504	150	3
29505	150	4
29506	185	3
29507	185	4
32504	240	3
32505	240	4
32506	300	3
32507	300	4

Customer connection of devices ≥ 630 A

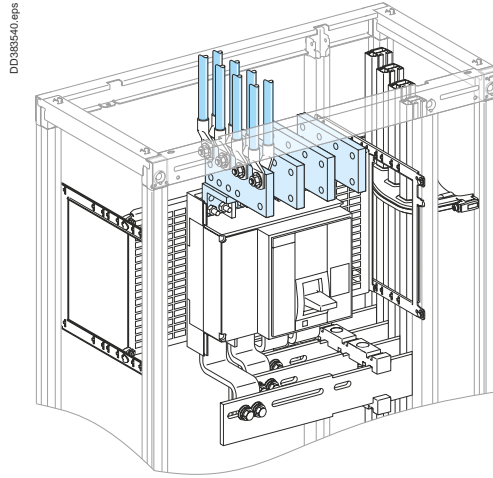
Maximum size and number of cables for connection to terminal extension bars (according to busbar drawing supplied) for customer connection of Compact NSX and Masterpact NT/NW and NT devices.

	Cable size (mm ²)	Quantity
Size and number of cables		
Copper lugs	300	12
Bimetal lugs	240	12

⁽¹⁾ Supplied with 2 or 3 interphase barriers.

Compact NS630b to NS1600

Vertical mounting
Front or rear connection
Incoming via top or bottom



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical Compact NS630b/NS1600, fixed or withdrawable, and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connections

Device and cat. no.	Permissible current (A)												
	Ambient temperature around the switchboard												
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b 3P cat. no. 33642	630	630	630	630	630	630	630	630	630	630	630	630	■
4P cat. no. 33643													
NS800 3P cat. no. 33642	800	800	800	800	800	800	800	800	800	800	800	800	■
4P cat. no. 33643													
NS1000 3P cat. no. 33642	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
4P cat. no. 33643													
NS1250 3P réf.33642 + 33644	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■	
4P réf.33643 + 33645													
NS1600 3P réf.33642 + 33644	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	■	
4P réf.33643 + 33645													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Withdrawable

Prefabricated connections

Device and cat. no.	Permissible current (A)												
	Ambient temperature around the switchboard												
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b 3P cat. no. 33642	630	630	630	630	630	630	630	630	630	630	630	630	■
4P cat. no. 33643													
NS800 3P cat. no. 33642	800	800	800	800	800	800	800	800	800	800	800	800	■
4P cat. no. 33643													
NS1000 3P cat. no. 33642	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
4P cat. no. 33643													
NS1250 3P réf.33642 + 33644	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■	
4P réf.33643 + 33645													
NS1600 3P réf.33642 + 33644	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	■	
4P réf.33643 + 33645													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

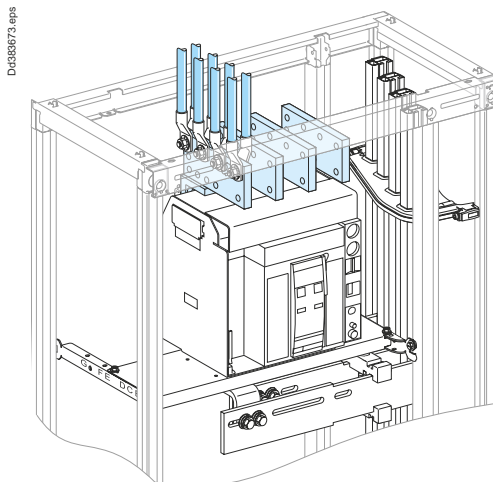
Note: the values indicated above have been validated for Prisma P switchboards.

Masterpact NT 06 to 16

Vertical mounting

Front or rear connection

Incoming via top or bottom



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical Masterpact NT06/NT16, fixed or drawout, and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connections

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	3P cat. no. 33642	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. 33643													
NT08	3P cat. no. 33642	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. 33643													
NT10	3P cat. no. 33642	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. 33643													
NT12	3P réf.33642 + 33644	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	■
	4P réf.33643 + 33645													
NT16	3P réf.33642 + 33644	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	1420	■
	4P réf.33643 + 33645													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Withdrawable

Prefabricated connections

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	3P cat. no. 33642	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. 33643													
NT08	3P cat. no. 33642	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. 33643													
NT10	3P cat. no. 33642	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. 33643													
NT12	3P réf.33642 + 33644	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	■
	4P réf.33643 + 33645													
NT16	3P réf.33642 + 33644	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	■
	4P réf.33643 + 33645													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

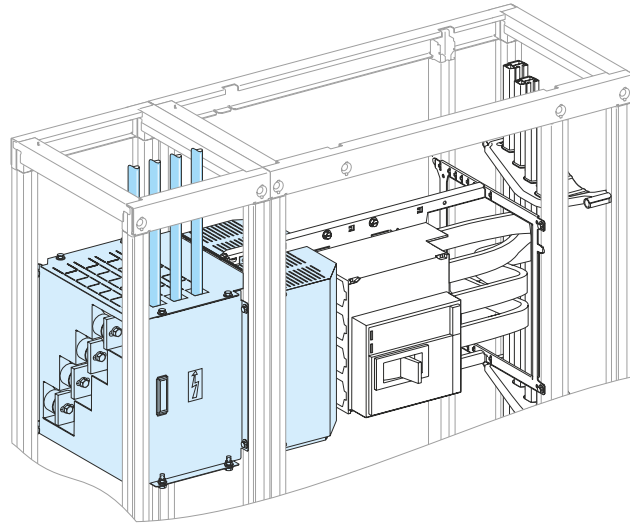
Compact NS630b to NS1000, fixed

Horizontal mounting

Front or rear connection

Installation on the left or right

D4583541 0P05



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a horizontal, fixed Compact NS630b/NS1000 and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

Connection transfer assemblies

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	3P cat. no. 04483	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. 04484													
NS800	3P cat. no. 04483	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. 04484													
NS1000	3P cat. no. 04483	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. 04484													

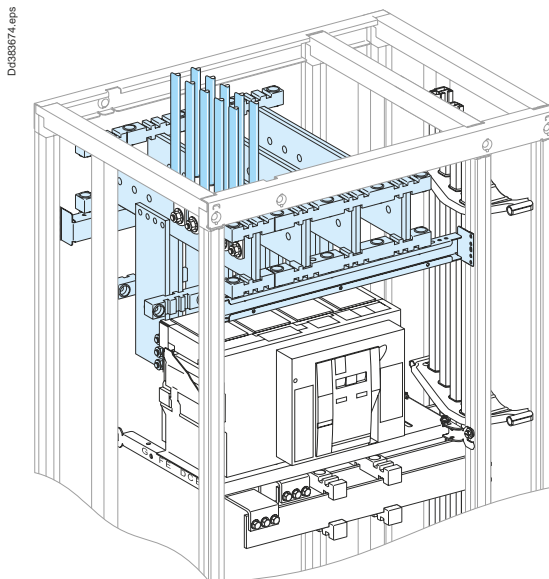
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

Electrical characteristics

Masterpact NW 08 to 16 Fixed

Vertical mounting
Front or rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connection for a vertical, fixed Masterpact NT06/NT16, taking into account the ambient temperature around the switchboard and the IP value.

Connection to be made according to the busbar drawings supplied.
For connection cable cross-sections and quantities, see page D-42.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470		

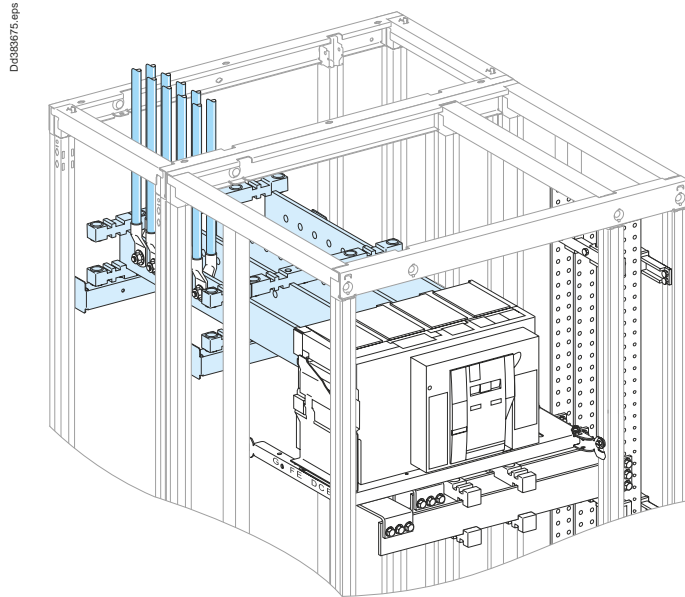
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

Electrical characteristics

Masterpact NW 08 to 40 Fixed

Vertical mounting
Front or rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470		
NW20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950		
NW25	Size per phase	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460		
NW32	Size per phase	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	■
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820		
NW40	Size per phase	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	■
	I (A) ⁽¹⁾													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NW08	NW10	NW12	NW16	NW20	NW25	NW32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

(1) For NW40 IP > 31, performances realized with forced ventilation.

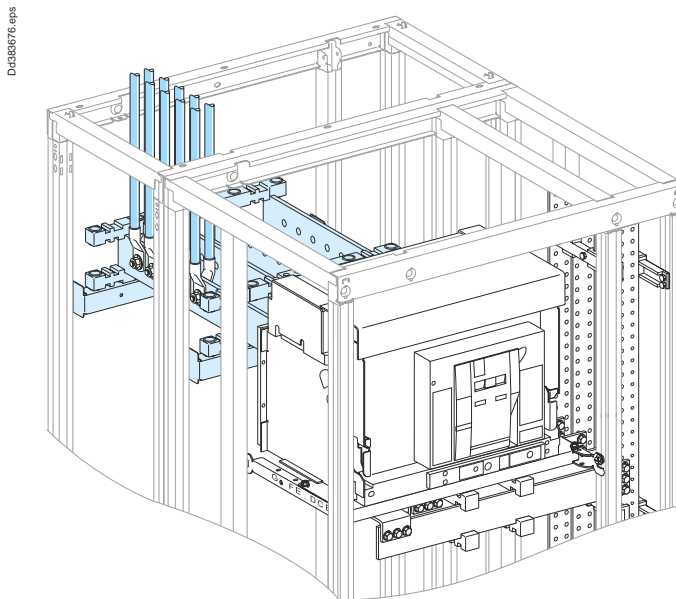
(2) Contact Schneider Electric for 4000 A dedicated cubicle.

Note: the values indicated above have been validated for Prisma P switchboards.

Electrical characteristics

Masterpact NW 08 to 16 Drawout

Vertical mounting
Front or rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, drawout Masterpact NT08/NT16, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied. For connection cable cross-sections and quantities, see page D-42.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1200	1230	1160	1200	1200	
NW16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

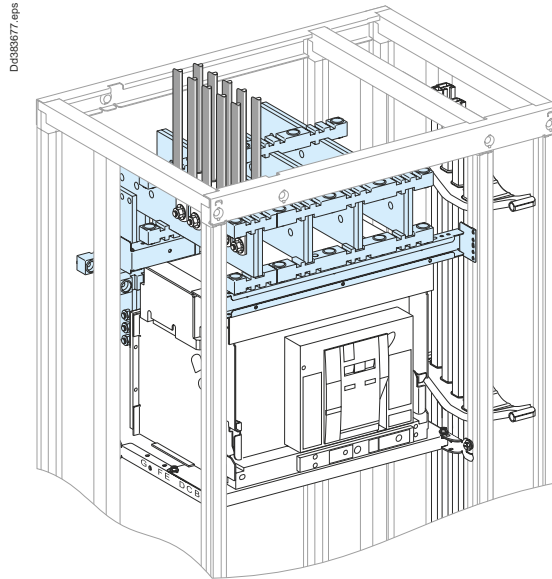
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

Electrical characteristics

Masterpact NW 08 to 40 Drawout

Vertical mounting
 Front or rear connection
 Incoming via top or bottom
 Busbar drawings supplied by Schneider Electric



Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NW10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NW12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140	1140
NW16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330
NW20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	1830
NW25	Size per phase	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	2140
NW32	Size per phase	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	2530
NW40	Size per phase	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	■
	I (A) ⁽¹⁾												

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NW08	NW10	NW12	NW16	NW20	NW25	NW32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

(1) For NW40 IP > 31, performances realized with forced ventilation.

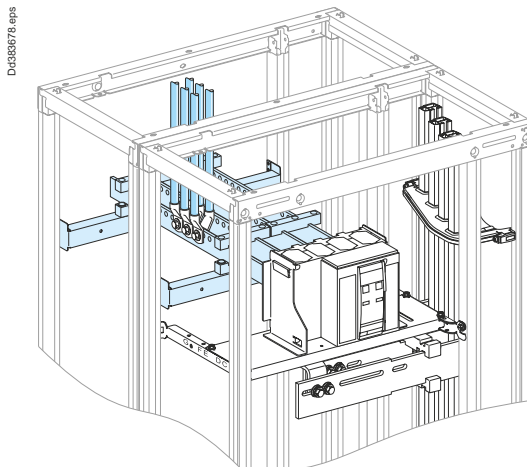
(2) Contact Schneider Electric for 4000 A dedicated cubicle.

Note: the values indicated above have been validated for Prisma P switchboards.

Electrical characteristics

Masterpact NT 06 to 16 Fixed

Rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, fixed Masterpact NT06/NT16, taking into account the ambient temperature around the switchboard and the IP value.
Connection to be made according to the busbar drawings supplied.
For connection cable cross-sections and quantities, see page D-42.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NT12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1200	1250	
NT16	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NT12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1180	1230	
NT16	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

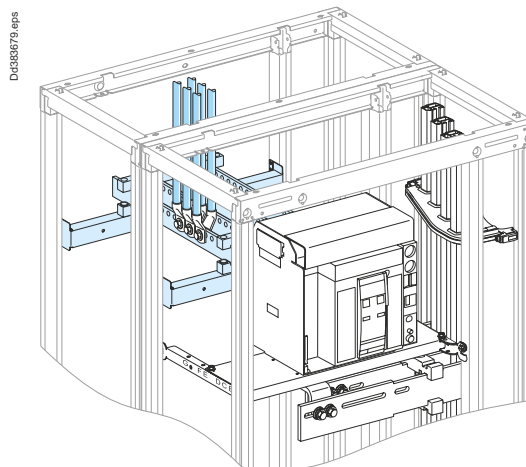
For Canalis connections, apply the appropriate derating coefficient K.

Device	NT06b	NT08	NT10	NT12	NT16
Derating coefficient K	1	1	1	1	0,98

Note: the values indicated above have been validated for Prisma P switchboards.

Electrical characteristics

Masterpact NT 06 to 16
Rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a customer connections to busbars for a vertical, drawout Masterpact NT06/NT16, taking into account the ambient temperature around the switchboard and the IP value.
 Connection to be made according to the busbar drawings supplied.
 For connection cable cross-sections and quantities, see page D-42.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	1000	
NT12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	1180	
NT16	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	1000	
NT12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	1160	
NT16	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NT06	NT08	NT10	NT12	NT16
Derating coefficient K	1	1	1	1	0,98

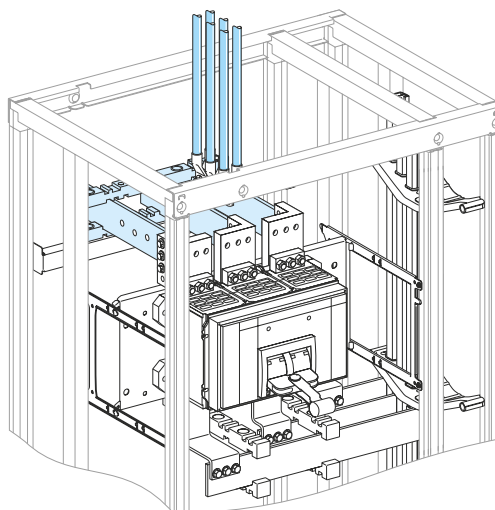
Note: the values indicated above have been validated for Prisma P switchboards.

Electrical characteristics

Compact NS1600b/3200 fixed

Front or rear connection
 Incoming via top or bottom
 Busbar drawings supplied by
 Schneider Electric

D16381542_0105



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, fixed Compact NS1600b/NS3200, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied. For connection cable cross-sections and quantities, see page D-42.

Customer connection

Flat bars, 10 mm thick

Device	Permissible current (A)												
	Ambient temperature around the switchboard												
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS1600b	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	
NS2000	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	
NS2500	Size per phase	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	
NS3200	Size per phase	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	■
	I (A)	2860	2630	2790	2530	2720	2430	2630	2350	2530	2270	2430	

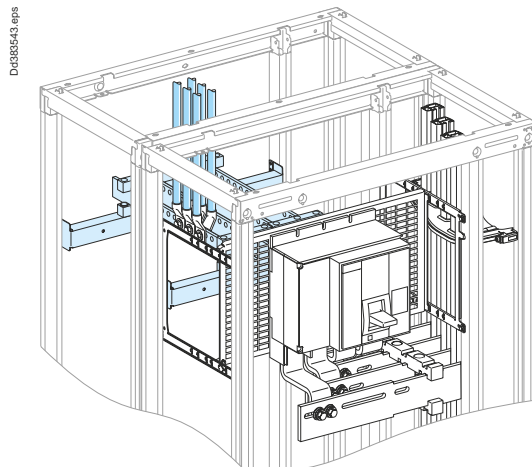
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

Electrical characteristics

Compact NS630b to NS1600 Fixed

Rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a rear customer connection for a vertical, fixed Compact NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.
Connection to be made according to the busbar drawings supplied.
For connection cable cross-sections and quantities, see page D-42.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
NS1250	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	
NS1600	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
NS1250	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	1180	1180	
NS1600	Size per phase	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	1b 100 x 10	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

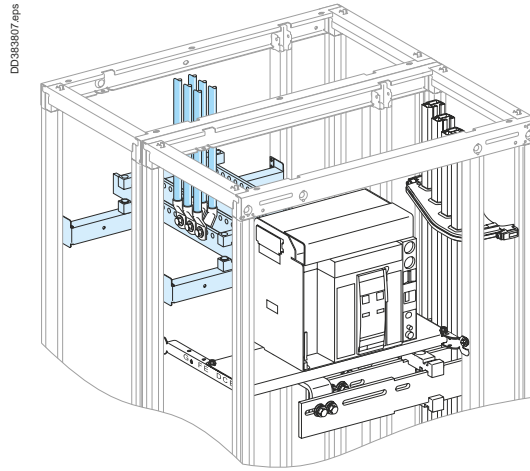
For Canalis connections, apply the appropriate derating coefficient K.

Device	NS630b	NS800	NS1000	NS1250	NS1600
Derating coefficient K	1	1	1	1	0,98

Note: the values indicated above have been validated for Prisma P switchboards.

Compact NS630b to NS1600 Withdrawable

Rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a rear customer connection for a vertical, withdrawable Compact NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.

Connection to be made according to the busbar drawings supplied.
For connection cable cross-sections and quantities, see page D-42.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NS1250	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180		
NS1600	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	1000	
NS1250	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160		
NS1600	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NS630b	NS800	NS1000	NS1250	NS1600
Derating coefficient K	1	1	1	1	0,98

Note: the values indicated above have been validated for Prisma P switchboards.

Compact NS630b to NS1000

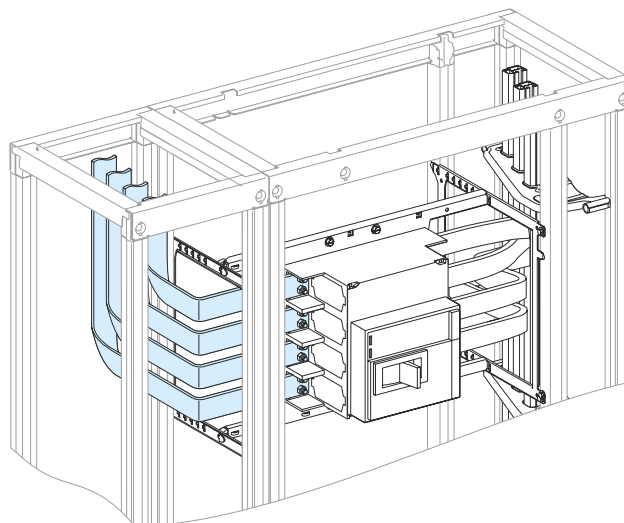
Horizontal mounting

Front connection

Incoming via top or bottom

Installation on the left or right

D:\818145.eps



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a horizontal, fixed Compact NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied.

Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for Prisma P switchboards.

Designing busbars

Fupact INF, ISFT, ISFL

Lineryg BS busbars

Electrical characteristics

Permissible current and selection of horizontal Lineryg BS busbars

The goal is to optimise busbar size according to the installation and operating criteria.

Horizontal Lineryg BS busbars

Fupact INF/ISFT/ISFL

Lineryg BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Lineryg BS bar, 60 x 5	800	750	760	700	710	650	660	600	610	550	560	■
1 Lineryg BS bar, 80 x 5	1000	910	970	860	910	810	860	750	810	700	750	■
2 Lineryg BS bars, 60 x 5	1400	1250	1320	1160	1250	1070	1160	980	1070	880	980	■
2 Lineryg BS bars, 80 x 5	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Lineryg BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Lineryg BS bar, 50 x 10	1150	1000	1080	930	1000	850	930	760	850	670	760	■
1 Lineryg BS bar, 60 x 10	1400	1250	1320	1160	1250	1070	1160	980	1070	880	980	■
1 Lineryg BS bar, 80 x 10	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■
2 Lineryg BS bars, 50 x 10	1940	1690	1840	1560	1700	1420	1560	1270	1420	1100	1270	■
2 Lineryg BS bars, 60 x 10	2170	1900	2040	1750	1900	1590	1750	1420	1590	1240	1420	■
2 Lineryg BS bars, 80 x 10	2670	2340	2500	2160	2340	1970	2160	1770	1970	1550	1770	■
2 Lineryg BS bars, 100 x 10	3120	2750	2930	2520	2750	2310	2520	2070	2310	1820	2070	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Rear horizontal Lineryg BS bars

Fupact ISFT/ISFL

Lineryg BS bars, 10 mm thick

Device	Size per phase	Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
ISFT 160	1 bar Lineryg BS 30 x 10	730	680	680	630	630	570	570	510	510	450	450	■
ISFL 160	1 bar Lineryg BS 60 x 10	1400	1250	1320	1160	1250	1070	1160	980	1070	880	980	■
	1 bar Lineryg BS 80 x 10	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■
ISFL 250/400/630	1 bar Lineryg BS 80 x 10	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■
	1 bar Lineryg BS 100 x 10	2050	1800	1930	1680	1800	1540	1680	1400	1540	1240	1400	■
	1 bar Lineryg BS 120 x 10	2390	2100	2250	1950	2100	1800	1950	1630	1800	1440	1630	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Designing busbars

Fupact INF, ISFT

Vertical Linergy LGYE, LGY busbars

Electrical characteristics

Permissible current and selection of Linergy LGYE busbars

The goal is to optimise busbar size according to the installation and operating criteria.

Vertical Linergy LGYE busbars Fupact INF/ISFT

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGYE 630	650	550	630	510	590	480	550	460	530	440	460	■
Linergy LGYE 800	840	720	800	700	760	660	720	610	680	580	640	■
Linergy LGYE 1000	1040	900	990	870	950	830	900	770	850	730	800	■
Linergy LGYE 1250	1290	1120	1230	1080	1170	1030	1100	970	1050	910	980	■
Linergy LGYE 1600	1580	1390	1480	1320	1390	1250	1320	1180	1250	1110	1180	■
Linergy LGYE 2000	1900	1720	1820	1620	1720	1520	1620	1420	1520	1320	1420	■
Linergy LGYE 2500	2290	1890	2190	1840	2070	1770	1960	1680	1880	1590	1780	■
Linergy LGYE 3200	3060	2780	2920	2640	2780	2500	2640	2360	2500	2220	2360	■
Linergy LGYE 4000	3320	3050	3240	2950	3140	2850	2970	2700	2800	2540	2650	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Lateral Linergy LGY busbars Fupact INF/ISFT

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGY 630	680	590	630	550	590	530	550	500	530	460	460	■
Linergy LGY 800	840	760	800	720	760	680	720	640	680	600	640	■
Linergy LGY 1000	1040	950	990	900	950	850	900	800	850	750	800	■
Linergy LGY 1250	1290	1170	1230	1100	1170	1030	1100	970	1050	910	980	■
Linergy LGY 1600	1580	1390	1480	1320	1390	1250	1320	1180	1250	1110	1180	■
Linergy LGY 2000 (2 x 1000)	1900	1720	1820	1620	1720	1520	1620	1420	1520	1320	1420	■
Linergy LGY 2500 (2 x 1250)	2380	2120	2260	2020	2120	1900	2020	1780	1900	1660	1780	■
Linergy LGY 3200 (2 x 1600)	3060	2780	2920	2640	2780	2500	2640	2360	2500	2220	2360	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Designing busbars

Fupact INF, ISFT

Vertical Linergy BS busbars

Electrical characteristics

Lateral Linergy BS busbars

Fupact INF/ISFT

Linergy BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 60 x 5	800	750	760	700	710	650	660	600	610	550	560	■
1 Linergy BS bar, 80 x 5	1000	910	970	860	910	810	860	750	810	700	750	■
2 Linergy BS bars, 60 x 5	1400	1250	1320	1160	1250	1070	1160	980	1070	880	980	■
2 Linergy BS bars, 80 x 5	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Linergy BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 50 x 10	1150	1000	1080	930	1000	850	930	760	850	670	760	■
1 Linergy BS bar, 60 x 10	1400	1250	1320	1160	1250	1070	1160	980	1070	880	980	■
1 Linergy BS bar, 80 x 10	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■
2 Linergy BS bars, 50 x 10	1940	1690	1810	1560	1700	1420	1560	1270	1420	1100	1270	■
2 Linergy BS bars, 60 x 10	2170	1900	2040	1750	1900	1590	1750	1420	1590	1240	1420	■
2 Linergy BS bars, 80 x 10	2670	2340	2500	2160	2340	1970	2160	1770	1970	1550	1770	■
2 x 1 Linergy BS bar, 80 x 10	3020	2650	2840	2450	2650	2230	2450	2010	2230	1760	2010	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



Specific application

Seismic zone

Around the world can be found different zones with a specific seismic risk. These zones have been classified according to the Uniform Building Code (UBC).



Switchboard qualification

Tests are carried out on switchboards to ensure that they operate correctly (structural and functional integrity) under severe earthquake conditions and meet specific safety requirements. The tests carried out to qualify these switchboards are described in the international standard IEC 60068-3-3.

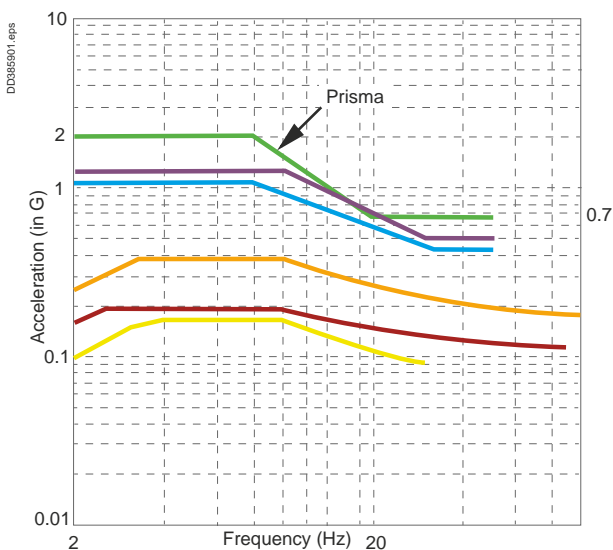
Classification

From weak to strong earthquakes, Prisma P has been tested in the following ground accelerations to guarantee the right performance on seismic risk.

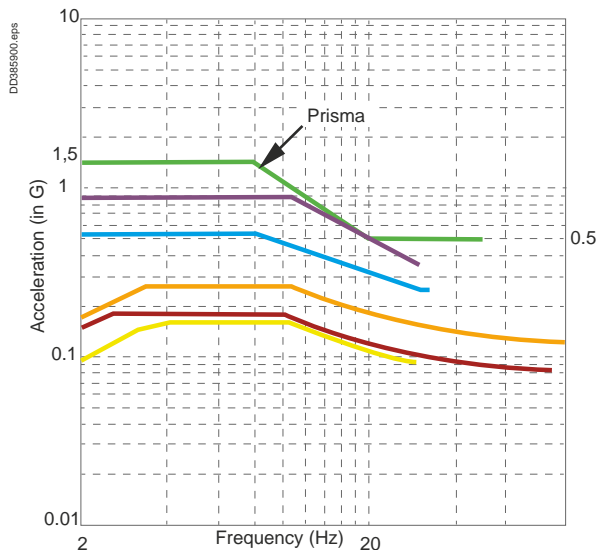
IEC 60068 -3-3 Ground acceleration	Seismic characteristics			
References	General description	Richter scale magnitude	MSK Intensity	UBC Zone
AG2	Intensity from weak to average	< 5.5	< VIII	0 1
AG3	Intensity from average to strong	5.5 to 7.0	VIII to IX	2 3
AG5	Intensity from strong to very strong	> 7.0	> IX	4

Prisma P is compliant up to level AG5 from IEC 60068-3-3 :

Compare Prisma P Switchboards Performances with seismic Standard
Damping % - horizontal



Compare Prisma P Switchboards Performances with seismic Standard
Damping % - vertical



Country	Standard	Parameters
Prisma P	IEC60068-3-3	Up to level AG5
Russia	GOST 17516.1-90	Civil Market (Seismic intensity 8, all installation levels) or (Up to Seismic Intensity 9, Level 1 only)
Chile	ENDESA 1986	All seismic categories
Turkey	Seismic Turkish Code 2009	All seismic zones, all site class
Greece	EAK 2000	All soil types, Worst case
Australia	AS1170	All soil types, Worst case

Specific application

Reinforcement

Prisma 2G seismic cubicles are standard. Special parts have been created, specific reinforced side panels and plinth reinforcement brackets.

Reinforced side panels

To respect Seismic withstand, used side panels IP55 version (even in IP30 switchboard).



Reinforced plinth brackets

Foot to add on each bottom angle to reinforced the structure.

To manufacture locally according the drawings supply by Schneider Electric: number eav8117002.



Seismic Kit with cross-members

In the duct 150 mm / 300 mm / 400 mm without devices = no need cross members.

For the cubicles

Ref: 03587 x 2 or 03584 x 2

- > 1 cross-members at the top, on the rear uprights
- > 1 cross-members at the middle, of the rear uprights
- > 2 cross-members at the bottom, on the rear uprights.



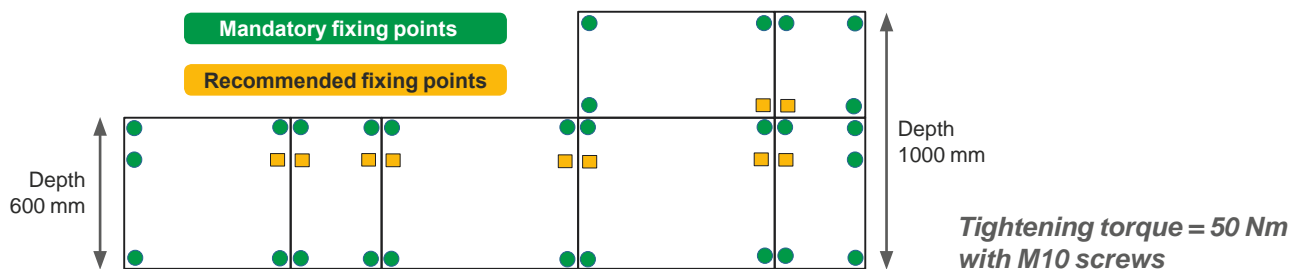
Prisma P Seismic Installation conditions

Specific application

Prisma frameworks

Prisma frameworks has to be assembled according the mounting instructions (04696506) and respect the tightening torque and association screws position.
Functional units has to be assembled according the mounting instructions supply with each reference.

Fixing ground



Sizes to respect

Dimensional specifications have to be take into account for the length of the switchboard and busbar ratings.

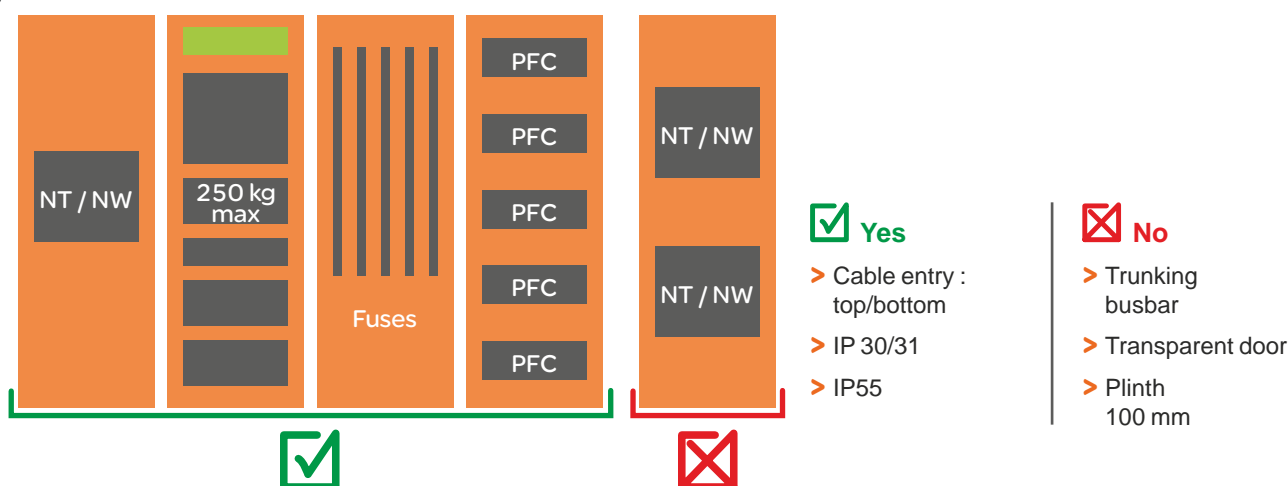
Dimensions minimales du tableau

- > Minimum width of switchboard = 1200 mm
- > Minimum depth of cubicle = 600 mm
- > Height = 2000 mm (plinth 100 mm are not allowed)

Maximum busbar ratings:

	3P	4P
Horizontal Linergy BS	2b 80 x 10	2b 80 x 10
Horizontal Linergy LGYE	LGYE 4000	LGYE 4000

Devices installation limit



NOTICE

HAZARD OF STRUCTURAL FAILURE

Seismic cubicles must have the same depth

Failure to follow these instructions can result in equipment damage



Standards and tested switchboards

IEC international standards

IEC member countries	
Argentina	Luxemburg
Australia	Malaysia
Austria	Mexico
Belarus	Netherlands
Belgium	New Zealand
Brazil	Norway
Bulgaria	Pakistan
Canada	Poland
China	Portugal
Croatia	Rumania
Czech Rep.	Russia
Denmark	Singapore
Egypt	Slovakia
Finland	Slovenia
France	South Africa
Germany	Spain
Greece	Sweden
Hungary	Switzerland
India	Thailand
Indonesia	Turkey
Iran	Ukraine
Ireland	United Kingdom
Israel	United States
Italy	Yugoslavia
Japan	
Korea (Rep. of)	

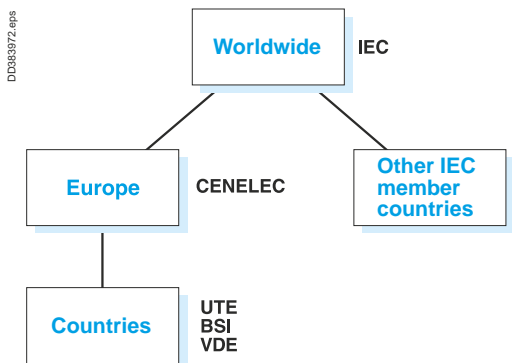
The IEC (International Electrotechnical Commission) is a worldwide organisation for standardisation comprising all national electrotechnical committees (IEC National Committees).

The object of the IEC is to promote international cooperation on all questions concerning standardisation in the electrical and electronic fields.

To that end, the IEC publishes International Standards.

Their preparation is entrusted to technical committees and any IEC National Committee interested in the subject dealt with may participate in the preparatory work.

Standards nationales



In Europe

The IEC documents are first studied by CENELEC, which establishes:

- either a European standard (EN), often identical to the IEC standard, which then becomes the applicable national standard in all the member countries
- or, in the event of differences, a harmonisation document (HD).

Other IEC member countries

Each country is autonomous and can accept the IEC standard as the national standard, with or without modifications.

Even though they are IEC members, countries such as Japan and the United States continue to develop their own standardisation systems.

Countries without a standardisation system

It is possible to refer to an IEC standard in the framework of a project.

CEI / IEC

Commission Electrotechnique Internationale

CENELEC

Comité Européen de Normalisation ELECTrotechnique

UTE

Union Technique de l'Électricité

VDE

Verband der Elektrotechnik, Elektronik und Informationstechnik

e.v. (German electrotechnical, electronics and computer

technology standardisation organisation)

BSI

British Standards Institution

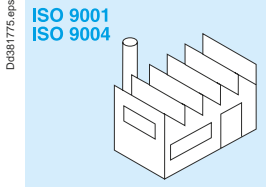


Standards and tested switchboards

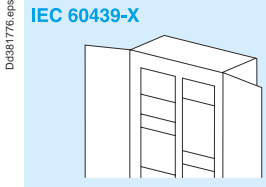
The different types of standards

There are different types of standards, including:

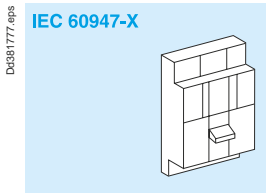
- management standards
- installation standards
- product standards.



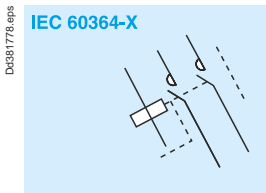
Design and manufacture.



Switchgear and controlgear assemblies.



Switchgear and controlgear.



Installation.

Management standards

ISO 9004: Quality-management systems - guidelines for performance improvements. Used in setting up a quality-management system.

ISO 9001: Quality management systems - requirements. Used for certification audits.

ISO 14004: Environmental-management systems. General guidelines on the principles, systems and supporting techniques.

ISO 14001: Environmental-management systems. Specification with guidance for use

- The majority of Schneider Electric development centres and factories are certified ISO 9001 and ISO 14001.

Installation standards

The set of IEC 60364-X standards defines the main principles and rules on:

- determining general characteristics of installations
- protection
- selection and installation of equipment
- verification and maintenance of installations.

Product standards

They apply to devices or assemblies and are aimed at ensuring correct operation and safety of the concerned products.

- standards on low-voltage switchgear and controlgear:

- IEC 60947-1: general rules
- IEC 60947-2: circuit breakers
- IEC 60947-3: switches and disconnectors
- IEC 60947-4: contactors
- IEC 62208: empty enclosures.

- standards on low-voltage switchgear and controlgear assemblies:

- IEC 61439-1: general rules
- IEC 61439-2: power switchgear and controlgear assemblies
- IEC 61439-3: distribution boards
- IEC 61439-4: assemblies for construction sites
- IEC 61439-5: assemblies for power distribution
- IEC 61439-6: busbar trunking systems.

Regulations in a given country may make certain standards legally binding and may also create additional safety requirements.

In addition to providing proof of the conformity of its quality-management system, a product manufacturer can demonstrate the quality of products by providing proof that the design and manufacture comply with the requirements in the applicable standard.

Proof of conformity may be a declaration by the manufacturer or a certificate supplied by an independent organisation.



Standards and tested switchboards

CE marking

CE marking is a regulatory symbol attributed under the sole responsibility of the manufacturer and intended for the verification authorities of the European countries that enforce the European regulations.

It allows free circulation of a product in the European Union and certifies that it complies with the basic requirements in all the applicable European directives. CE marking is not a quality symbol and does not indicate conformity with a standard.

The CE declaration is intended exclusively for the authorities in charge of verifying compliance with the applicable regulations and it is drafted, signed and held for presentation to the authorities by the manufacturer. For the Prisma P range, the declaration is the responsibility of the Schneider Electric unit that has designed and developed the product. For LV switchboards, the declaration is the responsibility of the panelbuilder.

The following products receive CE marking:

- all products that are liable to endanger the safety of persons, animals and property (LV directive)
- all products likely to emit electromagnetic disturbances above a standardised threshold or to be disturbed during operation (EMC directive).

Consequences:

- the Prisma P range falls under the LV directive only
- LV switchboards are covered by the LV directive and may also fall under the EMC directive, depending on the type of devices incorporated.



For the Prisma P range, CE marking is applied:

- on the packing of "mechanical" components
- on the product itself for "electrical" components.

For the LV assemblies created by the panelbuilder, CE marking is applied:

- on the packing
- on the rating plate (if applicable)
- on one of the documents accompanying the switchboard when it is shipped.



Standards and tested switchboards

Degree of protection

Standard IEC 60364-5-51 lists and codifies a large number of external influences to which electrical installations can be subjected, including the presence of water, solid objects, shocks, vibrations, corrosive substances, etc.

IP code

Standard IEC 60529 (IP code, February 2001) indicates the degrees of protection provided by an enclosure for electrical devices against access to hazardous parts, against penetration of solid foreign objects and against penetration of water.

These standards do not apply for the protection against the risks of explosion or conditions such as a humidity, corrosive vapour, fungus or vermin.

The IP code is made up of two characteristic numerals and can include an additional letter when the actual protection for persons against access to the hazardous parts is better than that indicated by the first numeral.

The first numeral characterises the protection provided against the ingress of solid foreign objects and the protection of persons.

The second numeral characterises the protection provided against the ingress of water with harmful effects.

1 st numeral		2 nd numeral		
Protection of persons		Protection against ingress of solid objects		
1	Protected against access with back of hand Dd381959.eps	Protection against solid foreign objects larger than 50 mm Dd381959.eps	1	Protected against vertically dripping water (condensation) Dd381966.eps
2	Protected against access with a finger Dd381960.eps	Protection against solid foreign objects larger than 12.5 mm Dd381963.eps	2	Protected against dripping water up to 15° from vertical Dd381967.eps
3	Protected against access with a tool Dd381961.eps	Protection against solid foreign objects larger than 2.5 mm Dd381961.eps	3	Protected against spraying water up to 60° from vertical Dd381968.eps
4	Protected against access with a wire Dd381962.eps	Protection against solid foreign objects larger than 1 mm Dd381962.eps	4	Protected against splashing water from all directions Dd381969.eps
5	Protected against access with a wire Dd381962.eps	Protected against dust (dust protected) Dd381964.eps	5	Protected against water jets from all directions Dd381970.eps
6	Protected against access with a wire Dd381962.eps	Dust tight Dd381965.eps	6	Protected against powerful water jets from all directions Dd381971.eps
			7	Protected against the effects of temporary immersion in water Dd381972.eps
			8	Protected against the effects of continuous immersion in water Dd381973.eps
			9	Protected against close-range high pressure, high temperature spray downs Dd381974.eps



Standards and tested switchboards

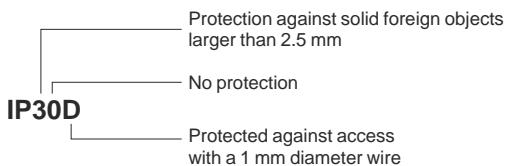
Additional letter

The additional letter is used only if the actual protection of persons is higher than that indicated by the first characteristic numeral of the IP code.

Additional letter	Protection
A	Protected against access with back of hand
B	Protected against access with a 12 mm diameter finger
C	Protected against access with a 2.5 mm diameter tool
D	Protected against access with a 1 mm diameter wire

If only the protection of persons is of interest, the two characteristic numerals are replaced by the letter "X", e.g. IPXXB.

Illustration of the above explanations:



Remarks

- The degree of protection IP must always be read and understood numeral by numeral and not as a whole. For example, an IP31 wall-mount enclosure is suitable for an environment that requires a minimum degree of protection IP21. However an IP30 wall-mount enclosure is not suitable.
- the degrees of protection indicated in this catalogue are valid for the enclosures as presented. However, the indicated degree of protection is guaranteed only when installation and device mounting are carried out in accordance with professional standards that conserve the initial degree of protection.

IK code

Standard IEC 62262 defines an IK code characterising the capacity of products to resist mechanical impacts from all sides.

IK code	Impact energy (joules)
01	0.14
02	0.2
03	0.35
04	0.5
05	0.7
06	1
07	2
08	5
09	10
10	20

IK codes can be selected according to the risks of impacts on a given site.

	Site	Recommended IK
No risk of major impact	Technical premises	07
Significant risk of impact that can damage devices	Hallways	08 (switchboard with door)
Maximum risk of impact that can damage the switchboard	Workshops	10

Selection of enclosures according to the premises

Enclosure characteristics

The IP and IK degrees of protection provided by an enclosure must be specified as a function of the various external influences defined by standard IEC 30364-5-51, in particular:

- presence of foreign solid bodies (code AE)
- presence of water (code AD)
- mechanical stress (code not specified)
- capability of persons (code BA)
- ...

Prisma P switchboards are designed for indoor installation.

Unless the rules, standards and regulations of a specific country stipulate otherwise, Schneider Electric recommends the following IP and IK values based on French guide UTE C 15-103 (March 2004).

Using the table

- 1 Opposite the relevant premises, read the recommended IP and IK values.
- 2 The ■ symbol indicates the enclosure or cubicle satisfying the criteria of the UTE guide.
Any enclosure or cubicle with a higher degree of protection can also be used.
- 3 If several degrees of protection are possible (refer to the standard for more details) and the □ and ■ symbols are indicated (e.g. 24[□]/25[■]), enclosures that correspond to the higher degree of protection (■) are suitable for the lower degree of protection (□).

Type of premises	Enclosure						
	Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover	with door + IP55 cover	
	Min. IP/IK required	IP30/IK07					IP30/IK08
IP	IK						
Domestic or comparable premises or locations							
Porch	24	07					■
Bathrooms (see washrooms)							
Bicycles, motorcycles, tricycles, etc. (premises for)	20	07	■				
Water, sewer and heating connections	23	02				■	
Laundries	21	02			■		
Cellars, garages, furnace rooms	20	02/07	■				
Bedrooms	20	02	■				
Trash rooms	25	07					■
Halls in cellars	20	07					
Courtyards	24/25	02/07					■
Kitchens	20	02	■				
Shower rooms (see washrooms)							
Indoor stairways and alleys	20	02/07	■				
Outdoor stairways and outdoor alleys without roofs	24	07					
Outdoor alleys with roofs	21	02			■		
Attics (roof space)	20	02	■				
Garden shelters	24/25	02/07					■
Latrines	20	02	■				
Dustbin rooms	25	02/07					■
Ironing room	20	02	■				
Access ramps to garages	25	07					■

■ No applicable

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises		Enclosure					
		Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover	with door + IP55 cover
		Min. IP/IK required	IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
		IP	IK				
Washrooms, rooms containing a bathtub or shower	volume 0	27	02				
	volume 1	24	02				■
	volume 2	23	02			■	
	volume 3	21	02		■		
Lounges, living rooms, etc		20	02	■			
Drying rooms		21	02		■		
Covered terraces		21	02		■		
WCs		20	02	■			
Verandas		20	02	■			
Crawl spaces		23	07				
Commercial premises and adjoining areas							
Gunsmiths (storage area, workshop)		30	08		■		
Laundries (wash room)		24	07				■
Butchers	shop	24	07				■
	cold room ≤ -10 °C	23	07			■	
Bakers, cake shops (kitchens)		50	07				■
Coffee roasters		21	02		■		
Coal, wood, oil		20	08	■			
Delicatessen (production)		24	07				■
Sweets (production)		20	02	■			
Shoe repair shops		20	02	■			
Dairies		24	02				■
Hardware stores (storage areas for chemicals and paint)		33	07			■	
Wood workers		50	07				■
Art galleries		20	02/07	■			
Florists		24	07				■
Furriers		20	07	■			
Fruit and vegetable merchants		24	07				■
Grain shops		50	07				■
Bookshops, stationers		20	02	■			
Motorcycle and bicycle repairs and accessories		20	08		■		
Messenger services		20	08		■		
Furniture shops (antiques, secondhand)		20	07	■			
Glass and mirror merchants (workshop)		20	07	■			
Wallpaper shop (storage area)		20	07	■			
Cosmetics shop (storage area)		20	02	■			
Chemists (storage area)		20	02	■			
Photographers (dark room)		23	02			■	
Plumbers (storage area)		20	08		■		
Fishmongers		25	07				■
Dry cleaners		23	02			■	
Hardware stores (without paint, chemicals, etc.)		20	07	■			
Locksmiths		20	07 ² /08 ²	■	■		
Vintners, spirits		20	07	■			
Interior decorator (carding)		50	07				■
Tailors, clothing retailers (storage area)		20	02	■			
Pet care		35	07				■

No applicable

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises		Enclosure						
		Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover	IP43/IK08	with door + IP55 cover
		Min. IP/IK required	IP30/IK07	IP30/IK08	IP31/IK08	IP55/IK10		
IP	IK							
Shared premises of buildings open to the general public	storage rooms	20	08		■			
	packing rooms	20	08		■			
	archive rooms	20	02	■				
	film and magnetic media storage	20	02	■				
	linen rooms	20	02	■				
	laundry rooms	24	07					■
	misc. shops	21	07/08			■		
	kitchens (large)							
J	Reception old and handicapped people	20	02	■				
L	Lecture halls, meeting rooms, auditoriums, halls used for several purposes	halls	20	02/07	■			
		stage areas	20	08		■		
		scenery storage rooms	20	08		■		
		costume rooms	20	07	■			
M	Retail premises, shopping malls	sales premises	20	08		■		
		areas for storage and handling of packing	20	08		■		
N	Restaurants and cafes	20	08		■			
O	Hotels and boarding houses	20	02	■				
P	Dance halls and gaming parlours	20	07	■				
R	Teaching establishments, holiday camps	classrooms	20	02	■	■		
		dormitories	20	08		■		
S	Libraries and documentation centres		20	02	■			
			20	02	■			
T	Exhibitions	halls and rooms	20	02	■			
		areas for reception of equipment and merchandise	20	07	■			
U	Healthcare establishments	bedrooms	20	02	■			
		incineration	21	07/08			■	
		operating rooms	20	07	■			
		centralised sterilisation	24	02/07				■
	pharmacies and labs with more than 10 l of inflammable liquids	21 ² /23 ²	02 ² /07 ²			■	■	
V	Places of worship	20	02	■				
W	Administrative premises, banks	20	02	■				
X	Indoor sports facilities	halls	20	07 ² /08 ²	■	■		
		premises containing refrigeration facilities	21	08			■	
Y	Museums	20	02	■				
PA	Covered open air facilities	23 ² /25 ²	08 ² /10 ²				■	■
CTS	Marquees and tents	44	08					■
SG	Inflatable structures	44	08					■
PS	Covered parking lots	21	08 ² /10 ²			■		■

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosure						
	Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required		IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK					
Technical premises							
Battery rooms	23	02/07				■	
Lifts (machine rooms and pulley rooms)	20	07 [□] /08 [■]	■	■			
Electrical rooms	20	07	■				
Control rooms	20	02	■				
Workshops	21 [□] /23 [■]	07 [□] /08 [■]			■	■	
Laboratories	21 [□] /23 [■]	02 [□] /07 [■]			■	■	
Air conditioning washers	24	07					■
Garages (used exclusively for parking vehicles) of an area not exceeding 100 m ²	21	07			■		
Machine rooms	31	07/08			■		
Water pressurisers	23	07/08				■	
Boiler houses and adjoining premises (power in excess of 70 kW)							
Boiler rooms	coal fuel	51 [□] /61 [■]	07 [□] /08 [■]				■
	other fuel	21	07/08			■	
	electrical	21	07/08			■	
Fuel storage areas	coal	50 [□] /60 [■]	08				■
	oil	20	07 [□] /08 [■]	■	■		
	liquefied gas	20	07 [□] /08 [■]	■	■		
Cinder tips	50	08					■
Pump rooms	21 [□] /23 [■]	07 [□] /08 [■]			■	■	
Pressure reduction rooms (gas)	20	07 [□] /08 [■]	■	■			
Steam or hot water facilities	21 [□] /23 [■]	07 [□] /08 [■]			■	■	
Expansion vessel room	21	02			■		
Garages and car parks of an area exceeding 100 m²							
Parking lots	21	07 [□] /10 [■]			■		■
Carwash areas (inside premises)	25	07					■
Petrol stations	inside	21	07			■	
	outside						
Lubrication areas	23	08				■	
Battery recharging areas	23	07				■	
Workshops	21	08			■		
Public building (other than for the general public)							
Offices	20	02	■				
Libraries	20	02	■				
Archives	20	02	■				
Computer rooms	20	02	■				
Design offices	20	02	■				
Rooms containing reprographic machines	20	02	■				
Sorting rooms	20	07	■				
Refectories in restaurants or canteens	21	07			■		
Large kitchens							
Sports rooms	20	07 [□] /08 [■]	■	■			
Barracks	20	07	■				
Meeting rooms	20	02	■				
Waiting rooms, lounges, halls	20	02	■				
Medical consulting rooms, not fitted with specific equipment	20	02	■				
Demonstration and exhibition rooms	20	02/07	■				

No applicable

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosure						
	Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required		IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK					
Farm premises or locations							
Alcohol (storage)	23	07				■	
Closed cattle sheds	35	07					■
Laundries	24	07					■
Wood storage rooms	30	10					■
Threshing floors	50	07					■
Distilling cellars	23	07				■	
Vat rooms (wine)	23	07				■	
Courtyards	35	07					■
Poultry barns	35	07					■
Stables	35	07					■
Fertiliser (storage)	50	07					■
Stables	35	07					■
Manure heaps	24	07					■
Haylofts	50	07					■
Haystacks, forage (storage)	50	07					■
Granaries, barns	50	07					■
Straw (storage)	50	07					■
Greenhouses	23	07				■	
Grain silos	50	07					■
Milking rooms	35	07					■
Pig sties	35	07					■
Chicken houses	35	07					■
Miscellaneous installations							
Fair facilities	33	08				■	
Water treatment facilities	24/25	07/08					■
Thermodynamic installations, air-conditioned rooms and cold rooms							
Height above ground	from 0 to 1.10 m	25	07				■
	from 1.10 to 2 m	24	07				■
	above 2 m under evaporator or water drain pipe	21	07			■	
	ceiling and up to 10 cm underneath	23	07				■
Temperature ≤ -10 °C		23	07			■	
Compressor	room	21	08			■	
	integral unit located outside or on a terrace	34	08				

No applicable

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosure						
	Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required		IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK					
Industrial facilities							
Slaughter houses	55	08					■
Batteries (manufacture)	33	07				■	
Acid (manufacture and storage)	33	07				■	
Alcohol (manufacture and storage)	33	07				■	
Aluminium (manufacture and storage)	51	08					■
Livestock (raising, fattening and sale)	45	07					■
Asphalt and bitumen storage	53	07					■
Wool beating and carding	50	08					■
Industrial laundry	24/25	07					■
Wood (processing)	50	08					■
Meat packers	24/25	07					■
Bakeries	50	07					■
Breweries	24	07					■
Brickworks	53	08					■
Rubber (production and processing)	54	07					■
Carbide (manufacture and storage)	51	07				■	■
Ammunition factories	53	08					■
Carton board (production)	33	07				■	
Quarries	55	08					■
Celluloid (manufacture of objects)	30	08		■			
Cellulose (manufacture)	34	08					■
Coal (depots)	53	08					■
Pork products	24/25	07					■
Boiler-making works	30	08		■			
Lime kilns	50	08					■
Rag (storage)	30	07	■				
Chlorine (manufacture and storage)	33	07				■	
Chrome-plating	33	07				■	
Cement works	50	08					■
Coking plant	53	08					■
Adhesives (production)	33	07					■
Bottling lines	35	08					■
Liquid fuels (storage)	31 [□] /33 [■]	08			■		
Fats (processing)	51	07					■
Leather (tanning and storage)	31	08			■		
Copper (ore processing)	31	08			■		
Paint stripping	54	08				■	■
Detergents (manufacture)	53	07				■	■
Distilleries	33	07				■	
Electrolysis	33	08				■	
Ink manufacturing	31	07			■		■
Fertilisers (manufacture and storage)	53	07					■
Explosives (manufacture and storage)	55	08					■
Iron (production and processing)	51	08					■
Spinning mills	50	07					■
Furriers (beating process)	50	07					■
Cheese factories	25	07					■
Gas (production and storage)	31	08			■		
Tar (processing)	33	05				■	
Seed production	50	07					■
Metal engraving	33	07				■	
Oils (extraction)	31	07			■		
Petroleum products (manufacture)	33 [□] /34 [■]	08				■	■
Printworks	20	08					

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosure						
	Cubicle		with fixed frame IP30/IK07	with door + IP30 cover IP30/IK08	with door + gasket + IP30 cover IP31/IK08	IP43/IK08	with door + IP55 cover IP55/IK10
	Min. IP/IK required						
IP	IK						
Industrial establishments (continued)							
Dairies	25	07					■
Public wash-houses	25	07					■
Liqueurs (production)	21	07			■		
Halogenated liquids (use)	21	08			■		
Inflammable products (storage and workshops where they are used)	21	08			■		
Magnesium (production, storage and use)	31	08			■		
Machine rooms	20	08		■			
Plastics (production)	51	08					■
Cabinet makers	50	08					■
Metals (processing)	31 [□] /33 [■]	08			■	■	
Combustion engines (testing of)	30	08		■			
Ammunition storage	33	08				■	
Nickel (or processing)	33	08				■	
Household waste (processing)	54	07					■
Paper (production)	33 [□] /34 [■]	07			■	■	■
Paper (storage)	31	07			■		
Perfume (production and storage)	31	07			■		
Pulp mill	34/35	07				■	■
Paint (production and storage)	33	08				■	
Plaster (processing and storage)	50	07					■
Gunpowder factory	55	08					■
Chemicals (production)	30 [□] /50 [■]	08		■			■
Oil refineries	34/35	07					■
Salt preserve factories	33	07				■	
Soap (production)	31	07			■		
Saw mills	50	08					■
Metalwork shops	30	08		■			
Grain or sugar silos	50	07					■
Silk and artificial hair factories	50	08					■
Sodium carbonate (processing and storage)	33	07				■	
Sulphur (processing)	51	07					■
Spirits (storage)	33	07				■	
Sugar mills	55	07				■	■
Tanners	35	07					■
Dye works	35	07					■
Textile and fabric (production)	51	08					■
Varnish (production and application)	33	08				■	
Glass works	33	08				■	
Zinc works	31	08			■		

No applicable

Enclosure characteristics

Schneider Electric enclosures comply with standard IEC 62208, EN 50298 for empty enclosures. The sheet metal used for Schneider Electric enclosures receives an anti-corrosion epoxy electrophoresis treatment and a coating of a thermosetting, polyester-resinmodified epoxy powder for colour and appearance.

This two-coat system provides excellent finish and corrosion protection.

The characteristics of this coating are much better than those of traditional epoxy powders:

- improved colour stability
- wider operating temperature range.

Mechanical properties of enclosures

Static load on doors, wall-mounted and floor-standing enclosures and cubicles

Cubicle	400 kg
Cubicle door	12 kg

Mechanical properties of powder coated surfaces

Test conditions

Test piece made of 1 mm thick steel sheet, degreased, iron phosphated, final rinsing with 100 kΩ cm DI water, 15 microns of anti-corrosion electrophoresis treatment and 35 microns of powder paint.

Adhesion (cross-hatch and pull-off)	class 0 required	(ISO 2409)
Impact strength ⁽¹⁾	> 1 kg/50 cm	(ISO 6272)
Mandrel bending test ⁽²⁾	< 10 mm	(ISO 6860)
Persoz hardness	300 s	(ISO 1522)

(1) No cracking of the paint film after dropping a weight of 1 kg on the test piece from a height of 50 cm.

(2) Film cracks over a length of 10 mm maximum.

Artificial ageing test on powder coating

Test conditions:

Two tests carried out on the same 1 mm thick steel sheet test piece.

- cyclical damp-heat test:
 - as per standard IEC 68-2-30
 - six 24-hour cycles at temperatures higher than 40 °C
- continuous resistance to neutral salt mist:
 - the tests were carried out over a period of 400 hours, far more than the 48 hours required by the standard for indoor installations
 - as per standard IEC 68-2-11 and ISO 7253
 - 400 hours without blistering for normal surface on test piece
 - 250 hours for a scratched surface.

Evaluation of corrosion as per ISO 4628:

- adhesion: class ≤ 1
 - blistering: degree 1 dim. 1
 - rusting: Ri 1
 - cracking: class 1
 - flaking imp. 1 dim. 1
- propagation of corrosion under scratch with respect to the scratch axis: 3 mm max.

Enclosure characteristics

Chemical properties of powder coating

Tests carried out at ambient temperature on phosphated test pieces coated with a 150 to 200 micron film.

Test duration (months)		2	4	6	8	10	12
Acids	Concentration						
	Acetic 20 %						
	Sulphuric 30 %						
	Nitric 30 %						
	Phosphoric 30 %						
	Hydrochloric 30 %						
	Lactic 10 %						
	Citric 10 %						
Bases	Soda 10 %						
	Ammonia 10 %						
Water	Distilled water						
	Seawater						
	Tap water						
	Diluted bleach						
Solvents	Petrol						
	High alcohols						
	Aliphatics						
	Aromatics						
	Ketones, esters						
	Tri-perchloroethylene						

 Film intact.

 Film damaged (blisters, yellowing, loss of shine).

Thermal management of switchboards

General

Thermal characteristics of switchboards

A switchboard is designed for operation under normal ambient conditions. Most devices do not operation correctly outside a temperature range of -10 and +70 °C.

It is therefore important to maintain the switchboard internal temperature within this temperature range by:

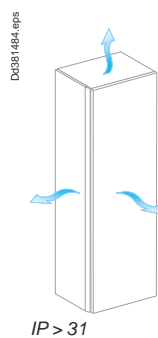
- correctly sizing the switchboard during design
- correcting the temperature using suitable means.

Management of the internal temperature

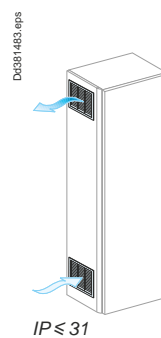
Cooling

There are a number of way to dissipate heat from the switchboard. The drawings below present the various means.

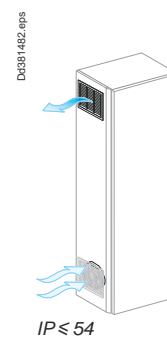
Convection



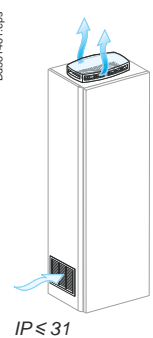
Ensured naturally in Prisma P enclosures.



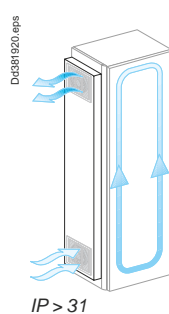
Forced-air ventilation



Using fans, it significantly increases the thermal capacity of an enclosure.

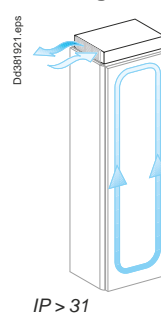


Forced-air ventilation with air-air exchanger



On special request.

Forced convection and cooling



For these extreme cases, many installers prefer to set up the switchboards with other electrotechnical and electronic devices in air-conditioned electrical rooms.

Heating

The means employed to raise the internal temperature in a switchboard is a resistor-based heater, used to:

- avoid condensation by limiting variations in temperature
- ensure that the switchboard does not freeze.

Thermal management of switchboards

General

Thermal characteristics of switchboards

Calculation of the internal temperature

Calculation of the temperature is the means to check that the enclosure can evacuate the dissipated power of the installed devices.

Important note

Correct thermal management of the switchboard depends on compliance with the installation requirements for the distribution system (power circuits).

Incorrect installation will have major consequences on the connected device, but almost none on the internal temperature of the enclosure.

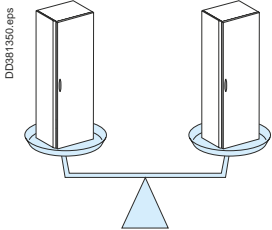
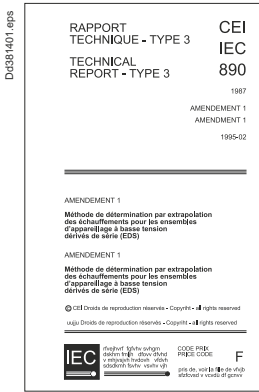
Once the circuit has been correctly sized, it is necessary to check whether the assembly (devices + distribution system + cables) have a level of dissipated power $P(W) \leq$ the $P(W)$ that the enclosure can handle.

Method defined by IEC 890 technical report

This IEC guide for switchboards proposes a calculation method to determine three levels of internal temperature, depending on the dissipated power of the devices and distribution blocks installed in the switchboard.

Users can consult this document when it is necessary to determine precisely the internal temperature in view of optimising the switchboard.

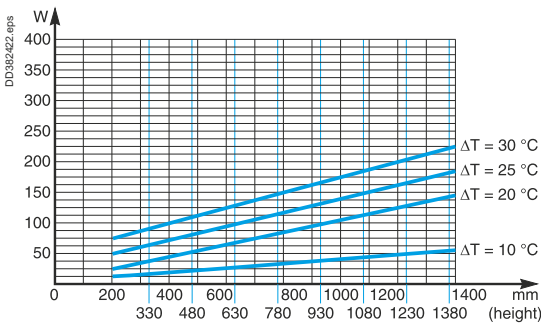
On request, Schneider Electric can carry out a thermal study to check that the installed assembly and the thermal capacity of the enclosure are compatible.



Comparative method

A number of qualified and tested configurations serve as the basis for indicating the thermal capacity of Prisma P enclosures.

This is an empirical means to check whether the dissipated power of the desired configuration is close to that of a tested configuration.



Method using charts taking into account enclosure characteristics

To speed up calculations, Schneider Electric produces charts based on the company's experience and a number of assumptions on the installation. They can be used sufficiently precisely to determine the variations in temperature and the dissipated-power levels for the different types of wall-mounted enclosures, floor-standing enclosures and cubicles.

For details on the calculation of the dissipated power in the device zone, see page D-80.

Thermal management of switchboards

General

Thermal characteristics of switchboards

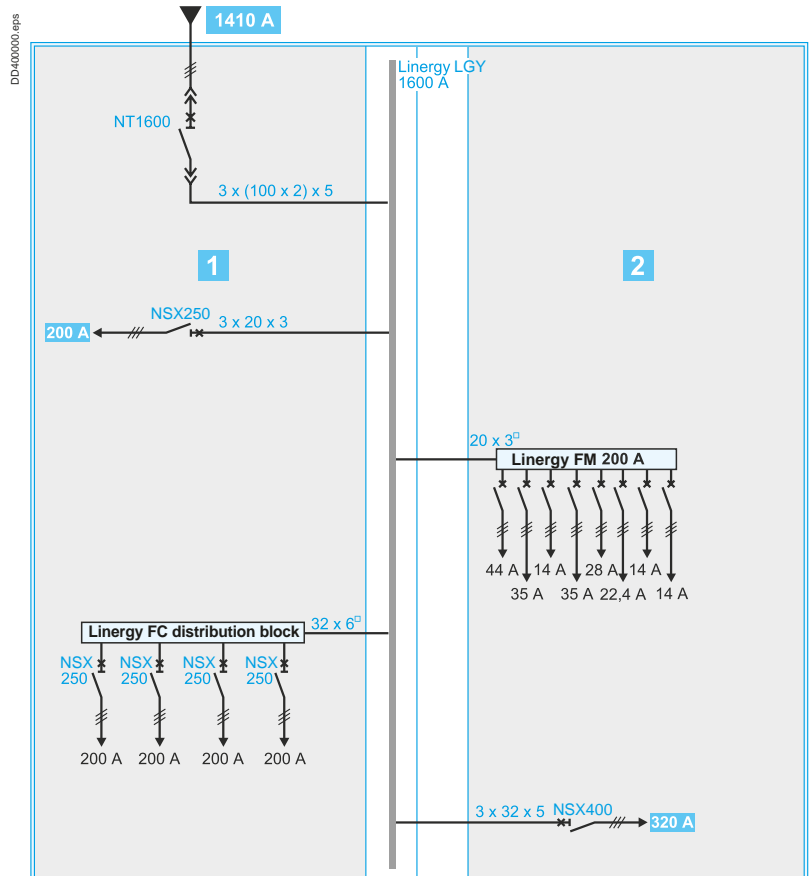
Two cubicles with busbar compartment, 800 mm wide, 400 mm deep, IP30

Diversity factor: 0.7 and 0.8

Ambient temperature around the switchboard: 35 °C

Cubicle 1: P(W) of device zone = 580 W

Cubicle 2: P(W) of device zone = 180 W



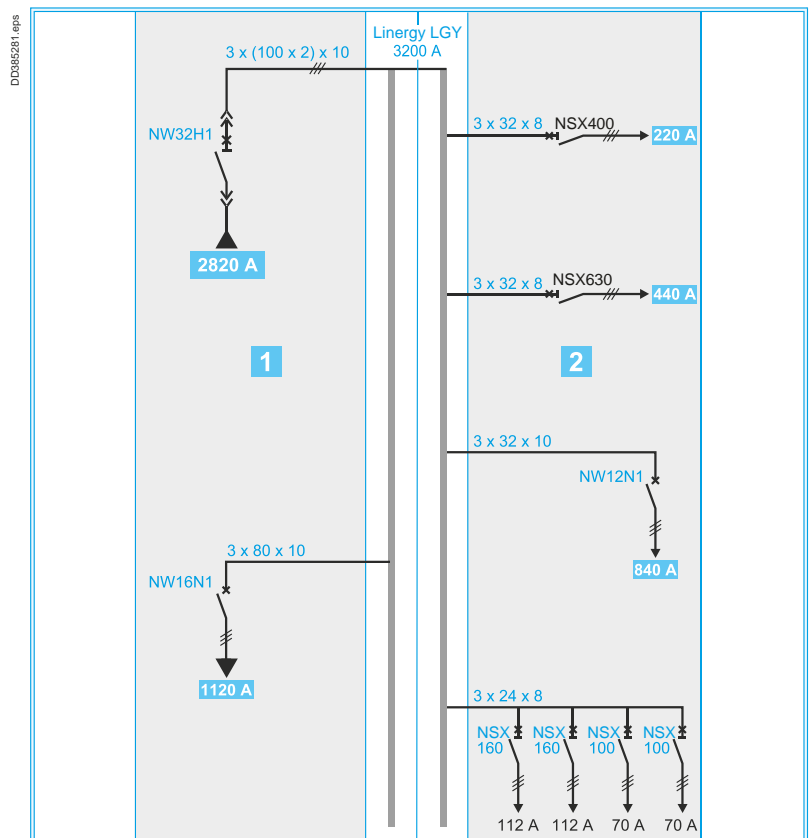
Two cubicles with busbar compartment, 800 mm wide, 1000 mm deep, two 300 mm wide ducts, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

Cubicle 1: P(W) of device zone = 880 W

Cubicle 2: P(W) of device zone = 330 W



Thermal management of switchboards

Example

Thermal characteristics of switchboards

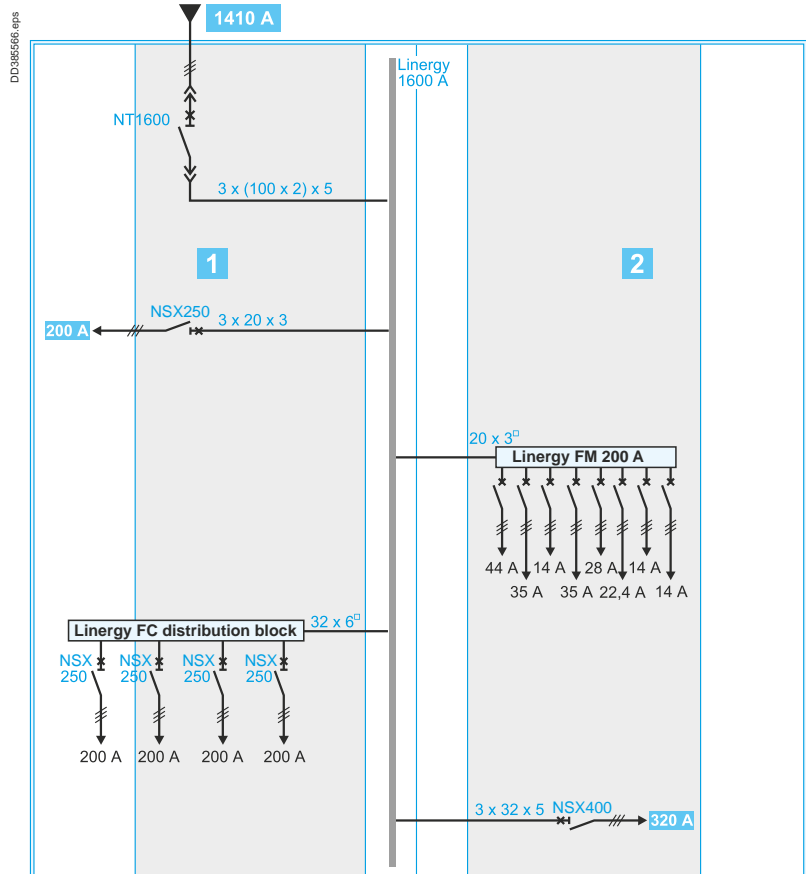
Two cubicles with busbar compartment, 800 mm wide, 1000 mm deep, two 300 mm wide ducts, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

Cubicle 1: P(W) of device zone = 580 W

Cubicle 2: P(W) of device zone = 180 W



Application of the diversity factor

In the configuration below, the standardised diversity factor (K div.) for a total of 14 outgoing circuits is 0.6, i.e. 60 % of In for each outgoing circuit. Schneider Electric prefers a more conservative approach and therefore divides the installation into four main circuits:

- Compact NSX250
- 200 A Linergy FM: 8 outgoers → K div. = 0.7
- Linergy FC: 4 outgoers → K div. = 0.8
- Compact NSX400.

1 Compact NSX250 + 1 Linergy FM 200 A + 1 Linergy FC + 1 Compact NSX400 → 4 outgoers, i.e. a diversity factor of 0.8.

As a result, the current flowing in each circuit is at least 70 % and up to 80 % of In.

Calculation of the power dissipated by devices in the incoming cubicle

Dissipated power of the NT1600 indicated by the manufacturer: 460 W. The power dissipated by the connections is approximately 30 % of the device P(W):
 $0.3 \times 460 = 138 \text{ W}$.

Power of circuit breaker + connections = 460 + 138 = 598 W at 1600 A.

For I² (the Watts are proportional to the square of the current) at 1410 A (In of the incoming device):

Dissipated power of the Compact NSX250 indicated by the manufacturer: 42 W.

Dissipated power of the connections: $0.3 \times 42 = 12.6 \text{ W}$.

Power of circuit breaker + connections = 42 + 12.6 = 54.6 W at 250 A.

For 200 A (the tested value):

$$\frac{54.6}{250^2} \times 200^2 = 35 \text{ W}$$

Dissipated power of the Linergy FC and its four Compact NSX250 circuit breakers:

$$4 \times 35 \text{ W (same calculation as above)} = 140 \text{ W}$$

Sum of the dissipated power in the incoming cubicle:

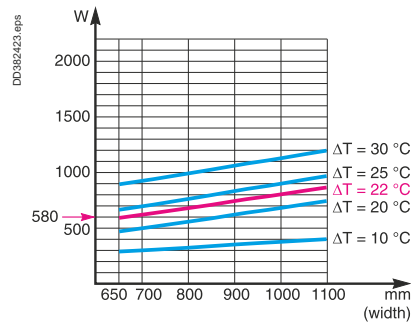
$$P(W) = 405 + 35 + 140 = 580 \text{ W}$$

Thermal management of switchboards

Example

Thermal characteristics of switchboards

Once the dissipated power of the devices has been determined and the enclosure with its IP selected, transfer the results (sum of the dissipated power and width of the device zone) to the chart corresponding to the enclosure IP.



Draw a line parallel to the others on the chart and read the corresponding difference in temperature.

For the given example, the heat rise is 22 °C at mid-height in the enclosure.

The internal temperature = external temperature + heat rise
 = 35 °C + 22 °C = 57 °C

57 °C < 60 °C stipulated by the standard, i.e. the result is acceptable for an IP3 cubicle.

This gives roughly: Internal temperature = 60 °C at mid-height in the enclosure for a low IP value.

Internal temperature = 70 °C at mid-height in the enclosure for a high IP value.

Thermal management of switchboards

Charts

Thermal characteristics of switchboards

For the enclosures not mentioned on the previous pages, use the equation:

$$\Delta T = \frac{P}{S \times K}$$

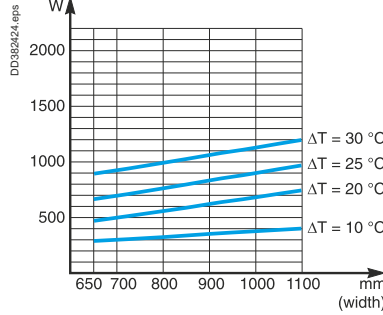
- DT:** internal temperature - external temperature
- P:** power dissipated by the devices, connections and busbars (in Watts)
- S:** total free surface area of the enclosure (expressed in m²)
- K:** thermal-conduction coefficient of the material (W/m² °C)

K = 5.5 W/m² °C for painted sheet metal.

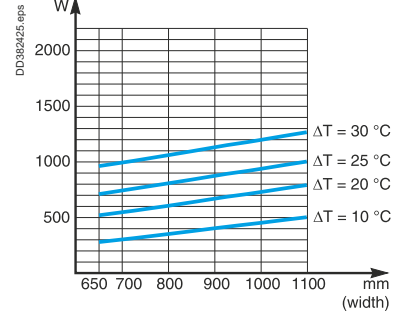
Note: the dissipated power of each device is provided by the manufacturer. Add approximately 30 % to account for the connections and the busbars.

Test conditions: the cubicle is on the floor against a wall, the indicated internal heat rise is that measured at mid-height in the enclosure.

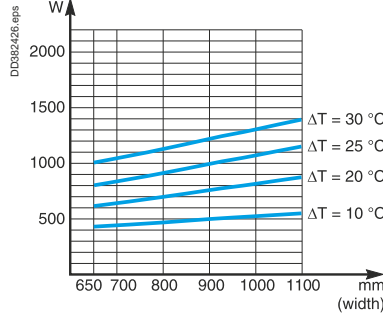
IP3X cubicle, 400 mm deep



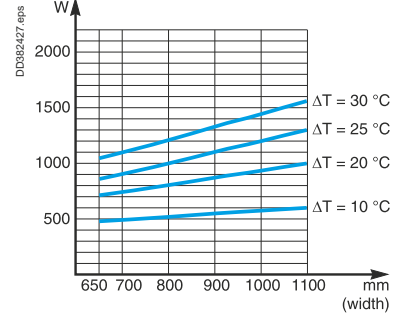
IP3X cubicle, 600 mm deep



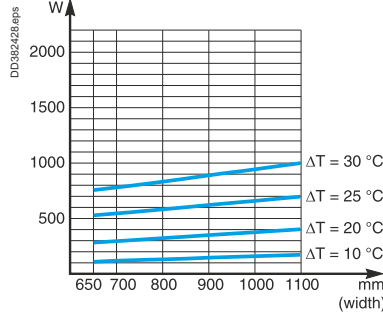
IP3X cubicle, 800 mm deep



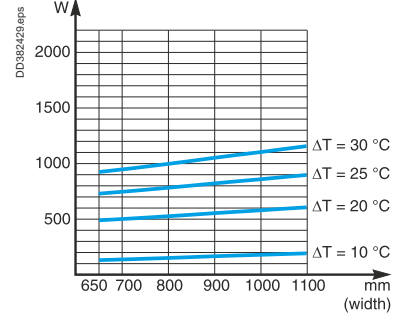
IP3X cubicle, 1000 mm deep



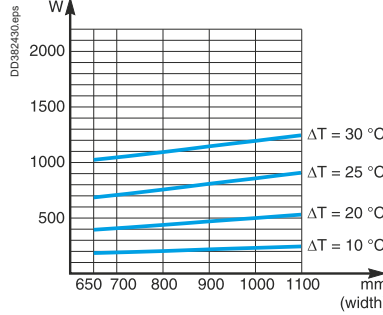
IP55 cubicle, 400 mm deep



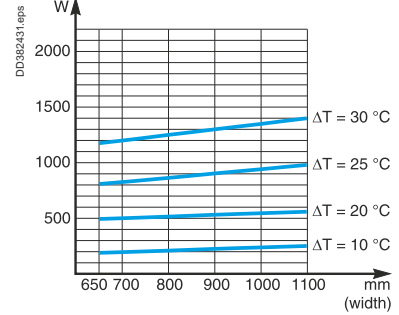
IP55 cubicle, 600 mm deep



IP55 cubicle, 800 mm deep



IP55 cubicle, 1000 mm deep



Thermal management of switchboards

Ventilation

Thermal characteristics of switchboards

The air enters the lower section via the fans and exits the upper section:

- through a ventilated roof
- or through a ventilation opening.

The air throughput of the fans is determined by the equation:

$$D = 3.1 \times \left(\frac{P}{\Delta T} - KS \right)$$

The chart below can be used to determine the necessary throughput, based on the dissipated power, the difference in temperature (internal - external) and the exposed surface area of the enclosure.

Example

Consider an IP3X cubicle, 650 mm wide and 400 mm deep, containing components (devices, connections, busbars, etc.) dissipating 1000 W.

The ambient temperature around the cubicle is 50 °C.

Given that the average temperature at mid-height should not exceed 60 °C, the difference in temperature ΔT is equal to 60 - 50 = 10 °C.

The exposed surface of the cubicle (non adjacent to a wall or other cubicle) is 4.46 m².

(back = 1.3 m², front = 1.3 m², roof = 0.26 m², side panels = 1.6 m²).

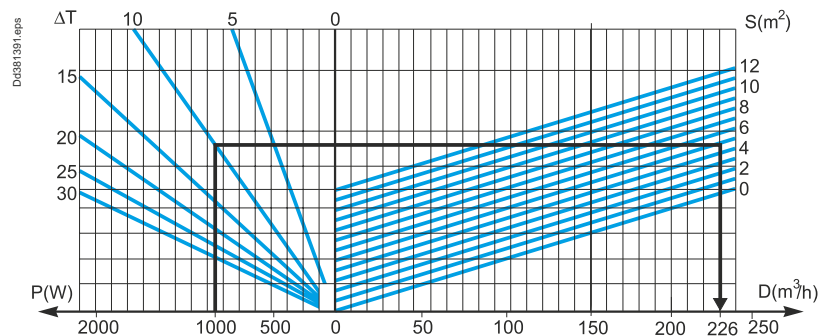
What is the necessary throughput of the ventilation system?

The throughput can be calculated as:

$$D = 3.1 \times \left(\frac{1000}{10} - 5.5 \times 4.46 \right)$$

D = 234 m³/h.

In the range of Prisma P accessories, select a system with a throughput of 300 m³/h.



Calculation data

P: power dissipated by the devices, connections and busbars (in Watts)

Pr: power of the heating resistor (in Watts)

Tm: maximum internal temperature in the device zone (in °C)

Ti: average internal temperature (in °C)

Te: average external temperature (in °C)

$\Delta T_m = T_m - T_e$

$\Delta T = T_i - T_e$

S: total free surface area of the enclosure (expressed in m²)

K: thermal-conduction coefficient of the material (W/m² °C)

K = 5.5 W/m² °C for painted sheet metal

D: ventilation throughput (in m³/h)

Note: The dissipated power of each device is provided by the manufacturer. Add approximately 30 % to account for the connections and the busbars.

Thermal management of switchboards

Heating

Thermal characteristics of switchboards

The heating resistor, placed in the bottom of the switchboard, maintains the internal temperature 10 °C higher than the external temperature. When the switchboard is not in operation, the heater compensates the dissipated power normally emitted by the switchboard.

The power of the heating resistor is calculated:

■ using the equation: $P_r = (\Delta T \times S \times K) - P$

■ or using the charts below, based on the exposed surface area of the enclosure and the desired difference in temperature.

Chart to determine the heating resistor for small wall-mounted enclosures (exposed surfaces ≤ 1 m²)

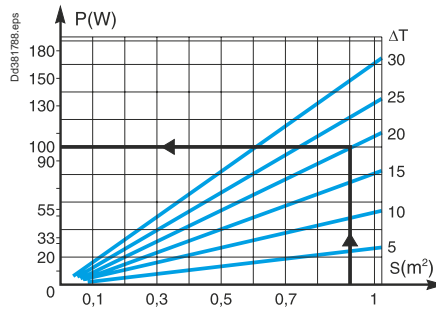
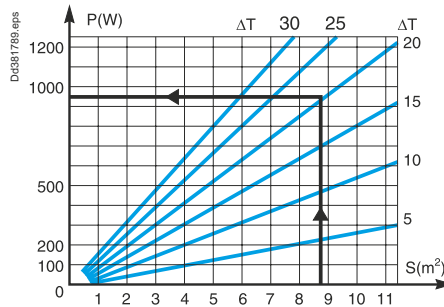


Chart to determine the heating resistor for all types of enclosures and cubicles



Calculation data

P: power dissipated by the devices, connections and busbars (in Watts)

P_r: power of the heating resistor (in Watts)

T_m: maximum internal temperature in the device zone (in °C)

T_i: average internal temperature (in °C)

T_e: average external temperature (in °C)

$\Delta T_m = T_m - T_e$

$\Delta T = T_i - T_e$

S: total free surface area of the enclosure (expressed in m²)

K: thermal-conduction coefficient of the material (W/m² °C)

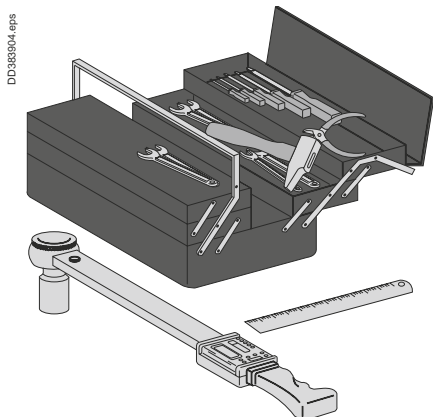
K = 5.5 W/m² °C for painted sheet metal

D: ventilation throughput (in m³/h).

Note: The dissipated power of each device is provided by the manufacturer. Add approximately 30 % to account for the connections and the busbars.

Tools required for mounting and connection

Practical information



- Vacuum cleaner to clean the switchboards
- Ratchet wrench with sockets
- Torque wrench with sockets and ring bits to tighten the electrical connections to the correct torque (max. torque 50 Nm)
- Open-ended torque wrench
- Open-ended spanners (15 to 27 mm).
- Electrician's knife
- 7, 8, 10, 13, 16, 17 and 19 mm sockets
- Bit holder socket
- 4, 5, 6, 8 and 10 mm hexagonal-head bits
- Pozidriv no. 1, 2 and 3 bits
- Rubber mallet
- Level.
- Measurement and inspection tools and instruments
- Drill
- Semi-circuit nosed pliers
- Cable-tie pliers
- Wire stripper
- Crimping tool
- Diagonal cutter
- Wire cutters
- Flat-nosed pliers
- Bit holder for screwdriver
- Extension
- Electric saw
- Jig saw
- Clamp for cubicle alignment
- Buzzer or tester
- 3, 5, 4, 5.5 and 8 mm flat screwdrivers
- Posidriv no. 2 crosshead screwdriver (to mount handle)
- Hydraulic jacks that can be operated in horizontal position to lift cubicles and move them sideways if necessary.
- Coloured, indelible and temperature resistant acrylic varnish.
- Electric screwdriver

Note: a Facom brand torque wrench is available with a capacity of 75 Nm and a thin shape. It is recommended for tightening under difficult access conditions.

Part numbers:

- SP3723 = wrench handle (essential)
- SP3721 = extra-flat ratchet adapter (essential)
- SP3722 = ratchet for ordinary sockets (optional) for mounting on handle SP3723
- SP2709 = extra-flat 13 mm short socket
- SP2709A = extra-flat 13 mm long socket
- SP4369 = extra-flat 16 mm short socket
- SP4370 = extra-flat 16 mm long socket
- SP2710 = extra-flat 17 mm short socket
- SP4371 = extra-flat 19 mm short socket
- SP4372 = extra-flat 19 mm long socket.

Connection of horizontal to vertical busbars

Practical information

Horizontal busbars can be connected to vertical busbars (Linergy LGY or Linergy BS) in two ways:

- in a duct (by a direct connection ordered from the catalogue)
- in the rear (with part of the connection to be fabricated by the installer).

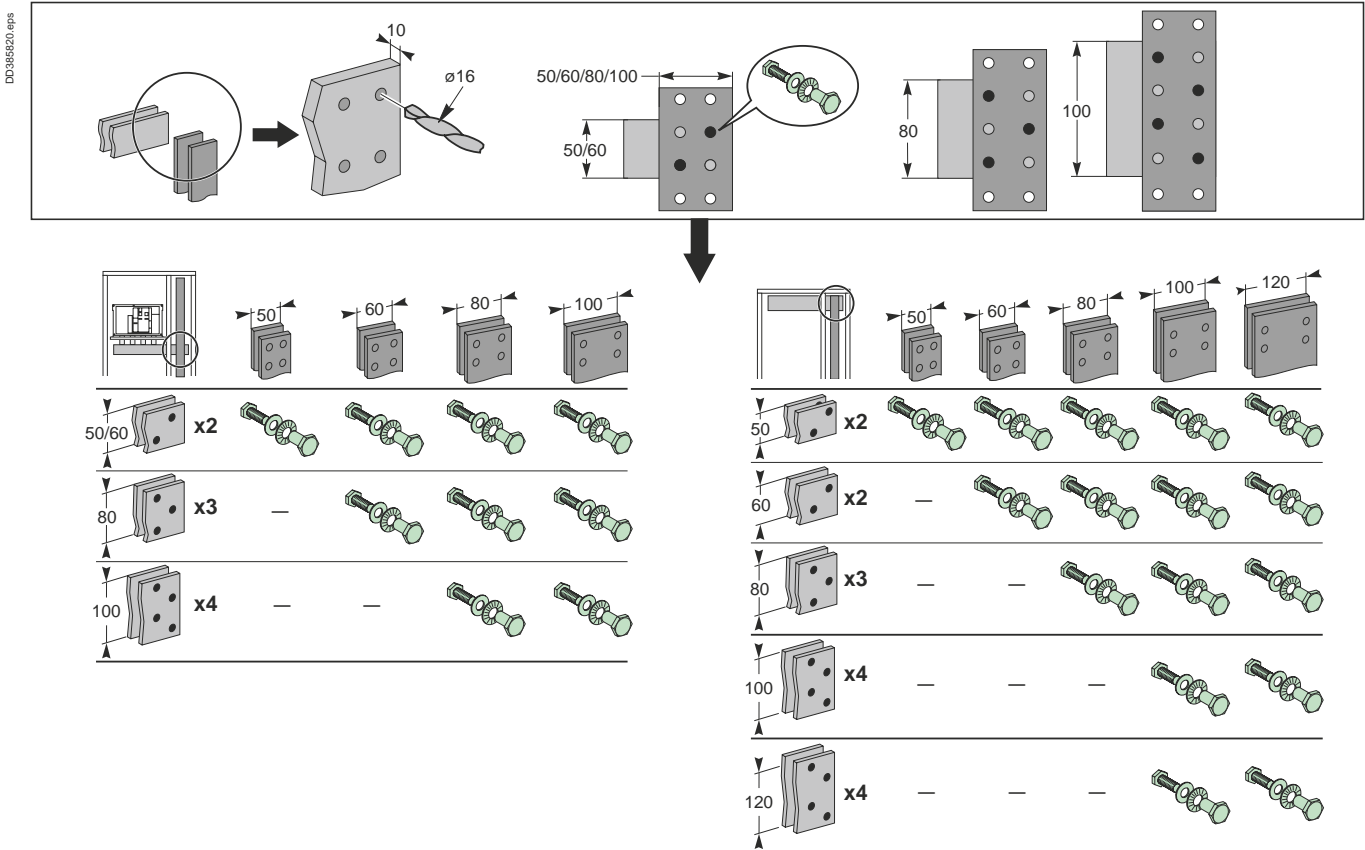
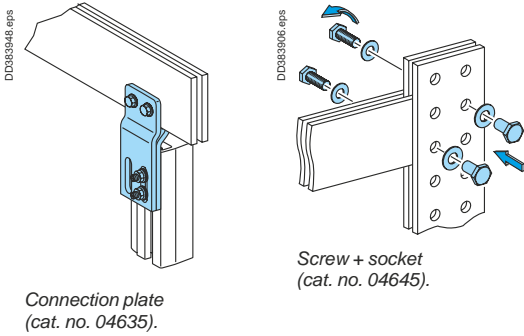
5 mm thick horizontal busbars can be connected to vertical busbars using connection plate 04634 (y 1000 A) or 04635 (> 1000 A) after drilling holes in the horizontal bars.

10 mm thick horizontal busbars can be connected to vertical busbars in 2 ways:

- using connection plate 04636 (≤ 1600 A) or 1600 A < 04637 < 2820 A without drilling holes in the horizontal bars
- or with a screw and socket assembly (04645) designed for assembly on a busbar that has already been mounted.

This bolted solution requires:

- holes drilled in the bars ($\varnothing 16$ mm) for diagonal mounting of the sockets and screws
- conformity with the following mounting rules:
 - respect the overlap length (2.5 to 5 times the bar thickness)
 - tighten to a torque of 50 Nm
 - fit the recommended number of screws, depending on the bar width as explained below.



In practice, the real contact area is limited to regions in which the pressure is applied effectively.

In a bolted overlap assembly, these areas are made up of the areas adjacent to the bolts, and more precisely under the washers.

Salt spray tests have demonstrated these contact areas.

The number of screws thus determines the effective cross-sectional area through which the current flows, which corresponds to the area under the washer (minus the screw hole).

This cross-section area must be close to that of the bar.

Controlled temperature rise

Whatever the connection solution used, the quality and reliability of the contact is guaranteed, in particular with respect to temperature rise, as long as assembly is carried out according to our recommendations.

Installation of the current transformer

Practical information

PD391279 eps



Dismountable vertical busbars.

Choice of a CT model depends on the type of installation:

- insulated cables
- Prisma P vertical busbars
- insulated flexible busbars
- Linergy LGY vertical busbars
- rigid busbars.

When installing a CT, we recommend that you comply with the following mounting rules:

- install current transformers:
 - on an easily dismantlable busbars or copper connections
 - between 2 connection points, by joints or bolted connection
 - place the current transformer so that the identification markings remain readable.
- For large current transformers, a staggered installation is recommended to prevent arcing on fixing screws or excessive spacing between phase conductors. If they are installed on vertical busbars, secure the current transformers in place to prevent them from slipping downwards (for example using a bolt or a pin)
- when there are several busbars per phase, fit spacers between the busbars in order to:
 - resist the tightening forces when installing the current transformer
 - avoid vibrations that lead to current transformer breakdowns.

PD391280 eps



CT on vertical busbars.

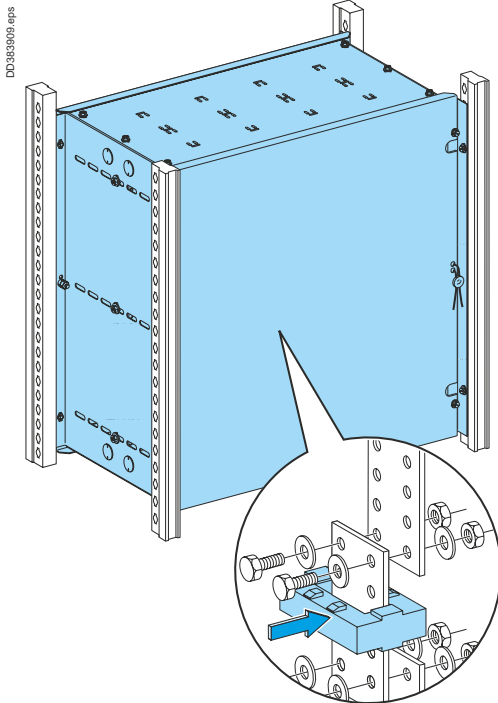
PD391281 eps



Spacers between the bars.

Installation of the current transformer

Practical information

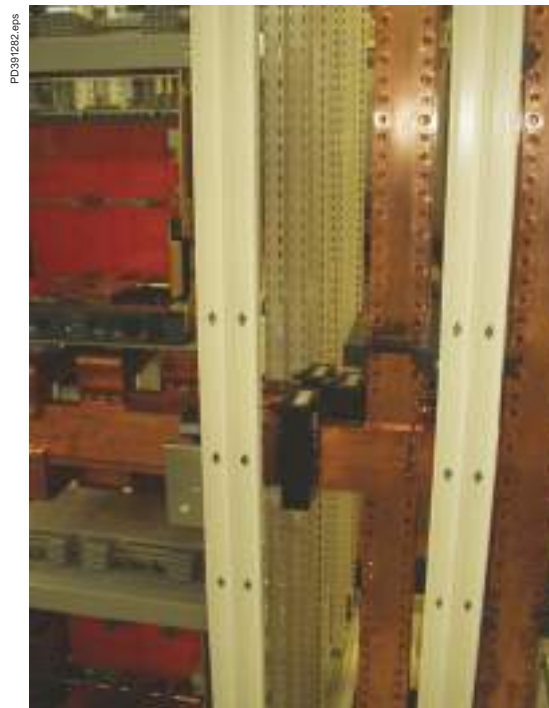


Sealable CT casing with current transformers on bolted connections.

Our circuit breakers have trip units with a **built-in ammeter** (see Micrologic catalogue). Their use eliminates the need for installing a CT on the busbars.

The CT casing is a solution for installation of CTs up to 1600 A. CTs can be installed in the casing (cat. no. 03506). It is equipped with a frame made up of 2 uprights, adjustable in depth and 2 slotted cross-members to fix the cables, install CTs or install a busbar support with 75 mm spacing. It is secured in the switchgear compartment of a 400 or 600 mm deep cubicle.

The 300 mm duct allows easier mounting of CTs. To install 2 CTs, downstream from a circuit-breaker for example, it is often easier to use a 300 mm wide duct (cat. no. 08403 for 400 mm depth or cat. no. 08603 for 600 mm depth).



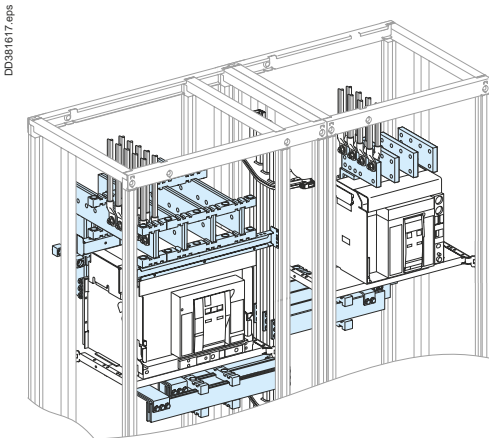
CT on circuit-breaker downstream connection busbars.

Installation of source changeover systems

Practical information



Source changeover system in the same cubicle.



Source changeover system in 2 combined cubicles.



Principle of the Prisma P solution

Prisma P simplifies the installation of source changeover systems.

The “source changeover” solution is an integral part of the Prisma P offering and is designed for all installation cases: 2 or 3 devices side by side or 2 superimposed devices.

The page opposite shows a few examples of installation in cubicles:

- 1 normal source/1 replacement source
- 2 normal sources with coupling (priority and non-priority circuits)
- 2 normal sources + 1 replacement source with coupling (priority and non-priority, circuits).

Note that our configuration software can be used to produce the switchboard front panel drawings.

For each source changeover configuration, various combinations of normal and replacement source circuit breakers and switch-disconnectors are possible:

- 1 normal source/1 replacement source:
 - NS630b to NS1600 / NS630b to NS1600
 - NT / NT
 - NT / NW
 - NW / NT
 - NW / NW

- 2 normal sources with coupling:
 - NW / NW / NW
 - NT / NT / NT
 - NW / NW / NW

- 2 normal sources + 1 replacement source with coupling:
 - NW / NW / NW / NW or NT.

Tables in the catalogue indicate the possible combinations “normal” and “replacement” devices according to the rating as well as the types of interlocking available for the different types of devices.

Highly economical vertical configurations are possible even for the largest devices. In this case, interlocking may be:

- mechanical by cable + motor mechanism
- via rotary handles (for NS630b/1600 only).

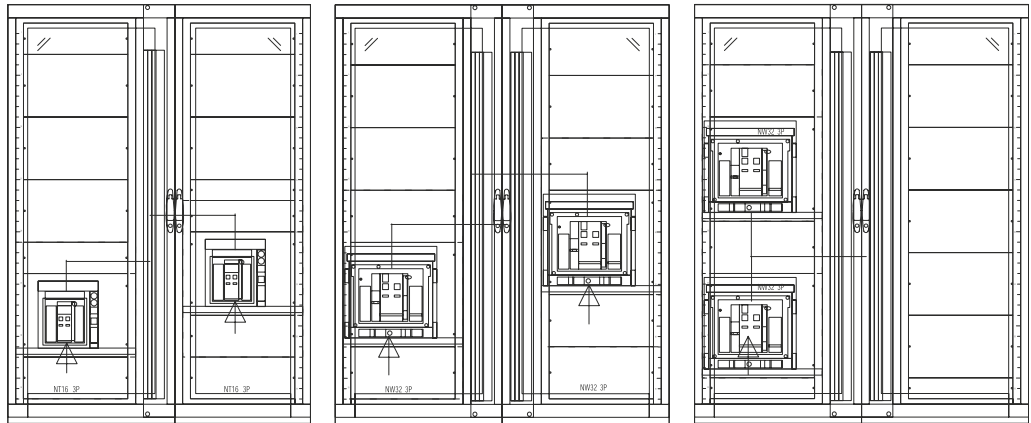
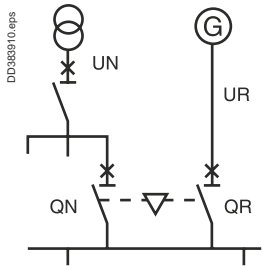
To define the number of modules required to install superimposed devices, all you have to do is add up the number of modules required for each device with:

- its connections
- its cover and its partitioning.

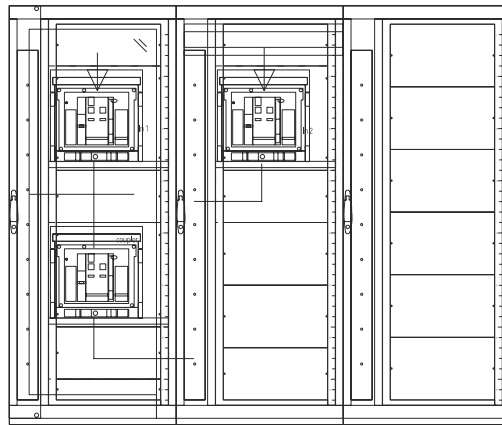
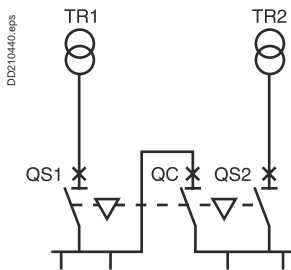
For combination possibilities and installation details, refer to the “Source changeover - Compact NSX100-630, Compact NS630b-1600, Interpact, Masterpact” catalogue LVPED208007EN.

Installation of source changeover systems

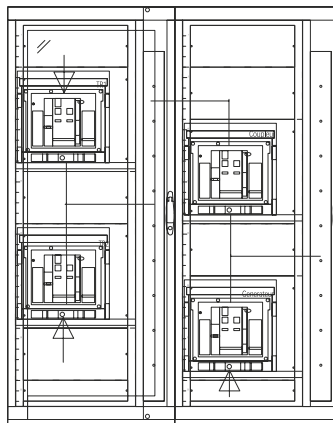
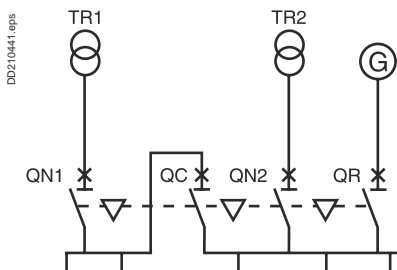
Practical information



1 normal source
1 replacement source



2 normal sources and coupling on busbars



2 normal sources
1 replacement source and coupling on busbars

Practical information

Cubicles must be stored in upright position in a dry and ventilated location, sheltered from rain, weather, dripping and running water, dust and chemical agents.

Apart from IP55 cubicles, never store enclosures outdoors, even under an awning or tarp.

The cubicles should if possible be left in their packing until they are installed. In this way they are protected against all risks that may be encountered on the site (impacts, splashes, etc.).

Acceptable storage temperatures are -25 °C to +55 °C (or up to +70 °C for short periods not exceeding 24 hours).

Given their heavy weight, cubicles should be stored on a stable, rigid and flat floor to avoid any risk of tipping during storage or handling.

Practical information

Receiving the switchboard

On receipt of the equipment and before handling it, check that the cases and packing materials used for transportation have not been damaged and that all items on the packing list have been effectively delivered.

- Even if the packing appears to be in good condition, do not hesitate to unpack the equipment in the presence of an authorised transport agent.
- Check the contents and weights of the shipping units. Thoroughly check the equipment to make sure that no damage or shocks have occurred that could impair insulation or operation.
- If necessary, check that the information on the switchboard nameplate, located on the incoming cubicle, complies with the information indicated on the delivery slip.
- In case of damage or missing parts, inform the transport agent by registered mail.
- After this inspection, refit the plastic protective cover.

Prisma P switchboards are generally shipped as separate cubicles or in transport units comprising 2 cubicles side by side. Shipping units may exceptionally comprise 3 cubicles (see precautions given in the "On-site handling" chapter).

Each shipping unit is marked with:

- project number
- weight
- packing unit information (packing unit number and total quantity)
- position of the centre of gravity
- storage and handling instructions.

Standard packing

The cubicles are protected by a plastic cover in a crate.

The following accessories are attached inside the switchboard:

- installation accessories (lifting/fixing cross-members and external fixing lugs)
- preliminary installation accessories: plinth raisers
- horizontal busbar joints (if required)
- additional nuts and bolts and other mounting hardware
- panels to be fitted after on-site connection: canopies, roof panels, gland plates
- a set of drawings
- device user manuals
- a tube of Swiss white varnish.

Large withdrawable or drawout circuit breakers installed at the top of the cubicle (Masterpact and Compact NSX) are generally delivered separately.

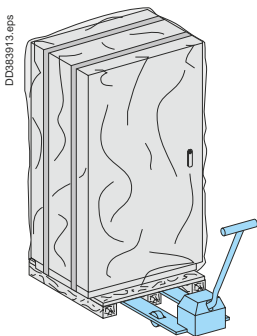
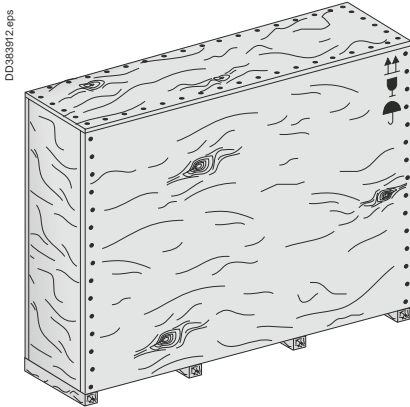
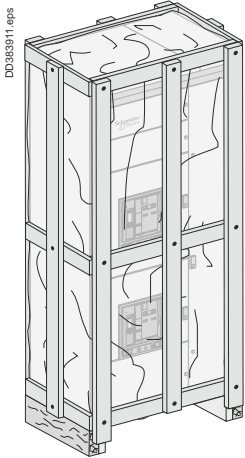
Sea packing

The cubicles are protected by a heat-sealed plastic cover containing desiccant bags and are installed in a ventilated wooden or plywood crate.

As a rule sea crates do not weigh more than 5 tons.

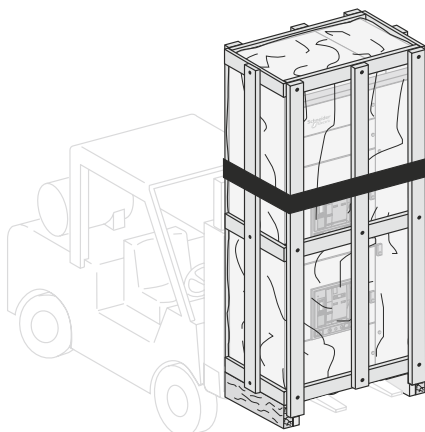
Sorting

In order to sort the different types of packing material, specific waste recovery bins are required.



Practical information

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Final unpacking of the equipment will preferably take place just before the switchboard is installed, as close as possible to its final installation location.

As a general guideline, the weight of an average 3200 A cubicle is around 400 kg. Cubicles should always be handled in the **upright position** with care, if possible **by 2 persons**. There is a risk of overtopping the cubicle due to the high position of the centre of gravity.

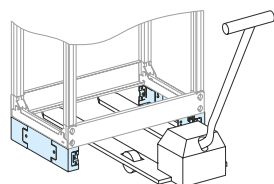
When moving the cubicles, always turn slowly and smoothly, avoiding all bumps and jerks. Enclosures moved using a forklift truck must be lifted carefully and held in position or fastened to the forklift truck using slings during transport.

Handling by the bottom

Wooden beams (or framework stabilizers) are generally attached to the base of the cubicle framework. This allows the cubicles to be moved using a pallet mover or forklift truck.

 The forks must be placed symmetrically with respect to the cubicle's axis so as not to distort the base of the frame.

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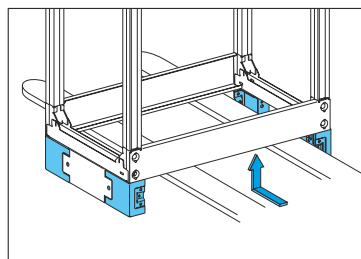
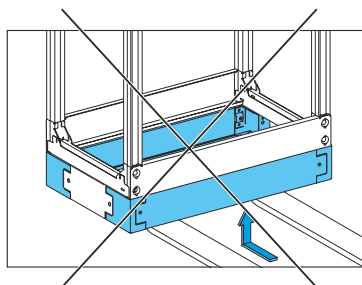
For cubicles fitted with a plinth, the front and rear base panels must be removed to allow insertion of the pallet mover forks.

Cubicles must be lifted with care and held in place during transport by strapping them onto the handling machine, especially for large distances or bumpy terrain.

For a Prisma P switchboard with a busbar compartment, lifting points must be shifted towards the busbars.

Framework stabiliser.

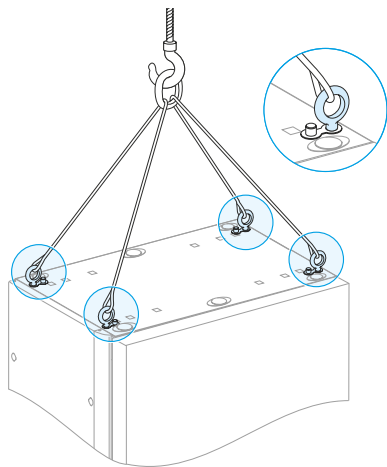
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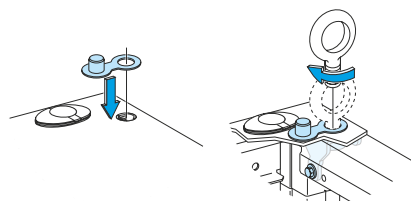
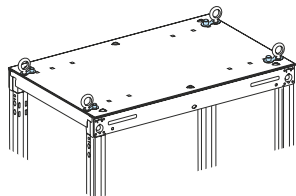
Cubicle with base.

Practical information

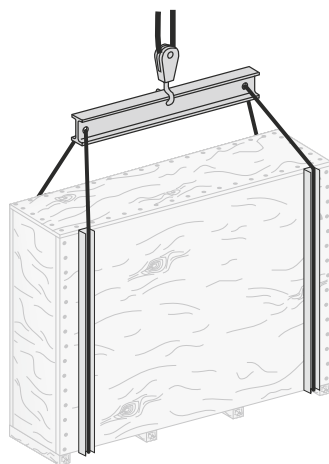
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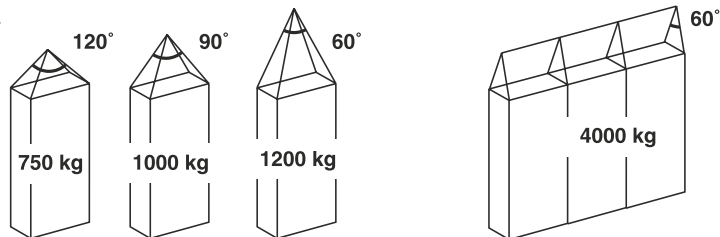


Handling by the top

If cranes or overhead hoists are used, only slings that are sufficiently strong and in good condition should be used.

- The slings must be attached to the 4 cubicle lifting lugs.
- Adjust the length of the slings according to the switchboard dimensions so that the angle formed does not exceed the angle indicated below depending on the switchboard weight. When 2 switchgear cubicles are combined, a lifting beam must be used.
- Never tilt the cubicle during handling.
- Take care to equally distribute the load on the 4 rings.

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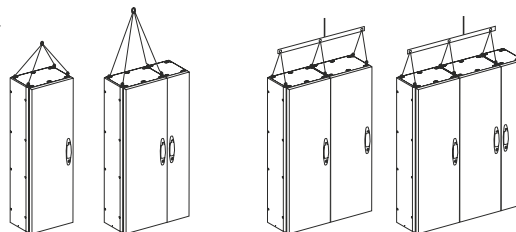


Position of lifting rings

The lifting rings can be installed and removed without dismantling the roof. Even with the lifting rings permanently installed, the switchboard retains its original degree of protection.

For combined cubicles, only install lifting rings on cubicles with switchgear.

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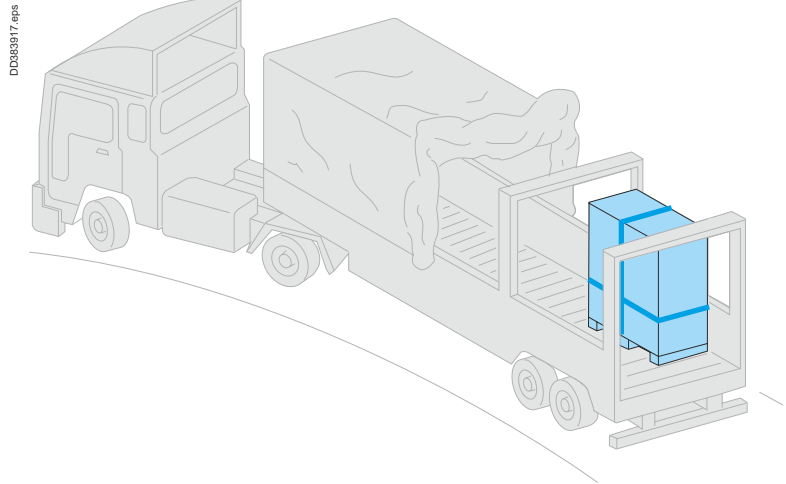
Lifting several cubicles packed together

In the special case of an assembly with more than 2 cubicles, you must:

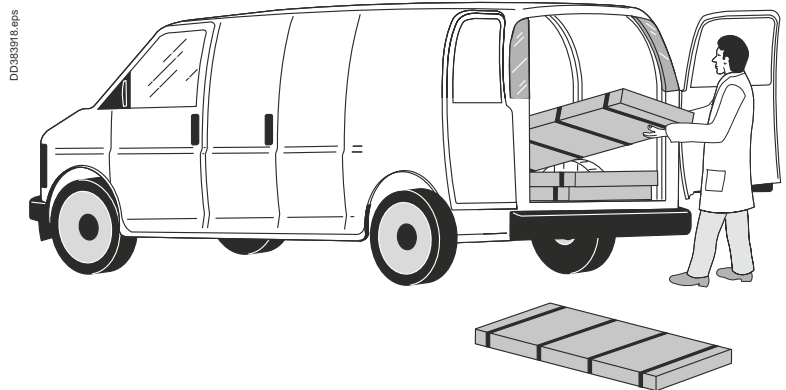
- first of all move the assembly in its original packing as close as possible to where it is to be installed
- use a lifting beam and slings to support the switchboard from underneath.

Practical information

The cubicles must be loaded vertically (stacking strongly discouraged).
After loading, check that the equipment is firmly secured in the truck to avoid any risk of damage during transport.



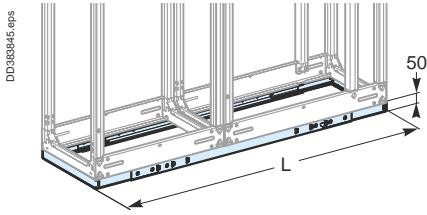
Enclosures supplied as kits should be transported horizontally if possible.



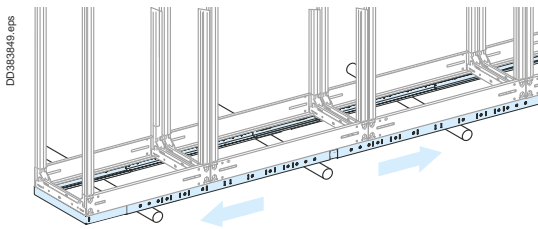
Cubicle handling and rolling base

Lifting reinforcement kit for combined cubicles

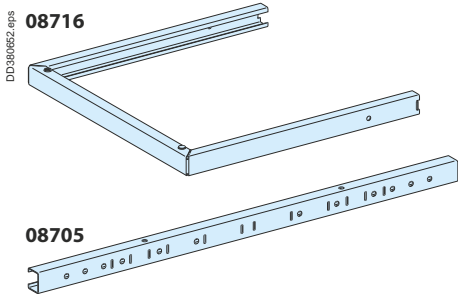
Practical information



08714 + 08705.



Combined cubicles equipped with a handling base can be moved easily and safely on rollers.



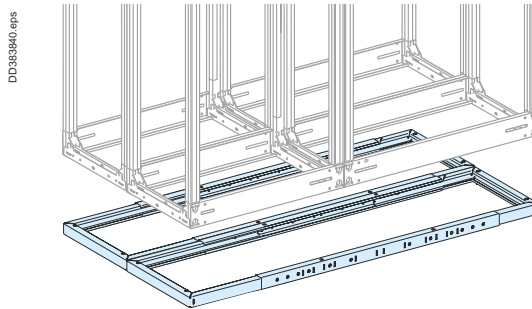
This type of base is designed to increase the rigidity of cubicle frameworks to avoid any risk of deformation during transport and handling.
Five different catalogue numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles.

- Two catalogue numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware.
- Three catalogue numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware.

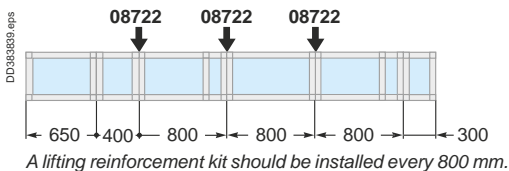
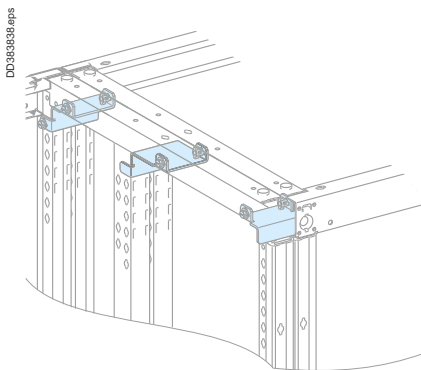
Handling bases can be used for both side-by-side and back-to-back cubicle combinations.

In this case, the mounting hardware for one of the sets is used.

Designation		Cat. no.
2 cubicle handling base end-pieces	D = 400 mm	08714
	D = 600 mm	08716
2 cubicle handling base side-lengths	W = 1200 to 1900 mm	08705
	W = 2000 to 2550 mm	08706
	W = 2650 to 3050 mm	08707



Side-by-side and back-to-back combination of 4 cubicles equipped with a handling base.



- Kit 08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces 08714 for severe transport or handling conditions.
- Catalogue number 08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.

Designation		Cat. no.
Lifting reinforcement kit for combined cubicles	W = 400/600 mm	08722

Practical information

Prisma P switchboards come equipped with a special interface that allows them to be directly connected to Canalis KT trunking.

The electrical connection between the Canalis KT trunking and the Prisma P switchboard is just as easy to carry out as jointing between two busbar trunking sections.

The Canalis KT interface is totally integrated in the Prisma P switchboard volume. It comprises a Canalis KT joint block and interface/circuit breaker connection terminals.

Trunking connection via the top

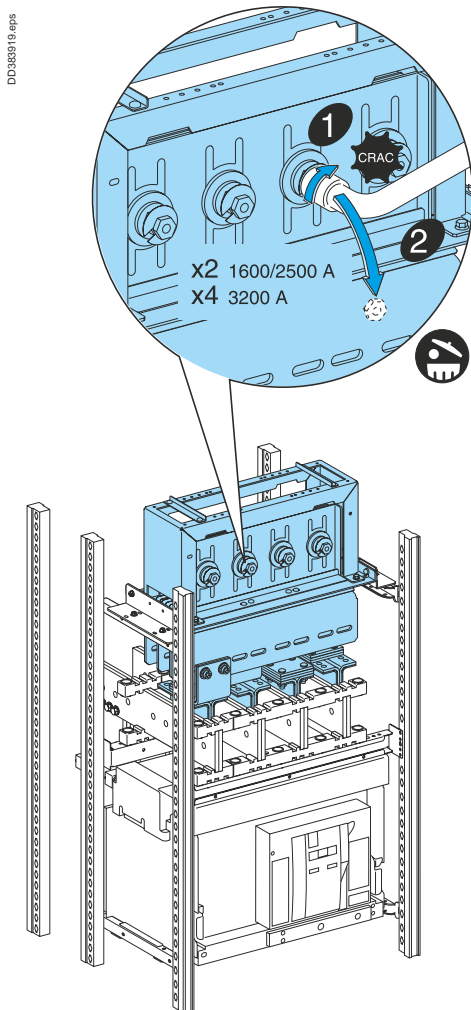
- Dismantle the roof.
- Cut out a passage for the busbar trunking.
- Adjust the guides according to the KT width that will be connected.
- Unscrew the junction block screws.
- Ensure that the busbar trunking length to be connected to the switchboard is correctly supported and that it is not resting on the interface.
- Lower the element until it is in contact with the interface frame, without bearing on it.
- Tighten the junction torque nuts. When the head breaks, the torque of 60 Nm has been reached.

⚠ In certain cases, it is recommended to only tighten the 2 middle nuts to 60 Nm and the 2 outer nuts to 10 Nm.

- A red plastic washer that is ejected when the head breaks provides visual evidence that the joint tightening operation has been carried out correctly.
- For dismantling or maintenance operations, a second head is available on the nut and can be retightened using a conventional torque wrench. The recommended tightening torque is then 60 Nm.
- Reassemble the roof.

Sealing kit

- In order to retain the original IP index, use the roof sealing kit ordered with the busbar trunking. This kit guarantees an IP52 degree of protection at the trunking passage.
- The kit is installed by cutting out the roof of the Prisma P switchboard. This cut-out, which is the same dimension for all Canalis KT busbar trunking ratings, is made using the template delivered with the sealing kit.



Practical information

To ensure protection of persons, first connect the switchboard protective conductor to the earth electrode.

- Tie the cables as close as possible to the connections to avoid any mechanical stresses on the device terminals. When not using cable glands, also attach the cables near to the cubicle entry point.
- Cables must never be in contact with or passed between live conductors.
- Sharp edges of the framework must be protected where cables pass to avoid damaging the conductors.
- Comply with a minimum radius of curvature of 6 to 8 times the cable outside diameter.
- All power connections must be made with class 8.8 mounting hardware and elastic contact washers, tightened to the torque indicated in the table below.
- When connecting aluminium cables to copper terminals, use bimetal lugs or interfaces.
- Separate the different types of circuits into separate cable bundles (power, control, 48 V, 24 V, DC, AC, etc).

Cable bundles

Cable cross-sectional area (mm ²)	Max. number of cables per bundle
CSA ≤ 10	8
16 < CSA ≤ 50	4
CSA ≥ 50	Tie individually

Tying the cable bundles

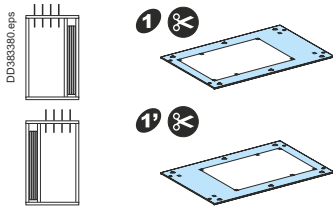
Type of tie	Maximum I _{cw} (kA/rms 1s)	Distance between ties (mm)
Width: 4.5 mm Load: 22 kg	10	200
	15	100
	20	50
Width: 9 mm Load: 80 kg	20	350
	25	200
	35	100
	45	70

For cable sizes of 50 mm² or more, use 9 mm wide fixing ties.

Recommended tightening torque for mechanical and electrical connections with 8.8 class screws.

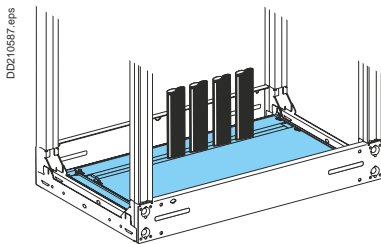
Diameter of screw	Tightening torque (Nm) (with nut + contact washer)
M3	1.5
M4	3.5
M5	7
M6	13
M8	28
M10	50
M12	75

Practical information



Connection via the top

- Remove the roof.
 - Drill the holes required to install cable glands or grommets.
 - Install the cable glands or grommets. They must comply with the switchboard's degree of protection (IP).
 - Refit the roof.
 - Run the cables through the glands or grommets.
 - Run the cables in the intended compartments and secure them to cable tie-bars every 400 mm.
 - Crimp the lugs and connect.
 - When sealing does not call for cable glands or when sealing is achieved by means of foam, cables can be routed in a rectangular cut-out in the roof.
- The removable cross-member simplifies insertion of cables in the cubicle.



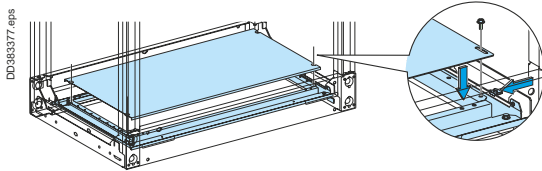
Connection via the bottom

Using a 2-part gland plate

- Drilling is not necessary with this type of gland plate.
- The gland plate avoids producing an induced current.
- The cables are protected by a polyurethane foam seal which provides a sealing function.

Using a 1-part gland plate

- Remove the bottom plate.
- Drill the appropriate holes to assemble the cable glands or grommets (1-part gland plates should not be drilled within 30 mm of the edges).
- Install the cable glands or grommets. They must comply with the required degree of protection (IP).
- Refit the bottom plate.
- Run the cables through the glands or grommets.
- Run the cables in the intended compartments and secure them to cable tie-bars every 400 mm.
- If cable glands are not used, it may be easier to prepare the cable terminations outside the switchboard (e.g. lug crimping) and then to drop them inside the cubicle having first disassembled the bottom removable cross-member.



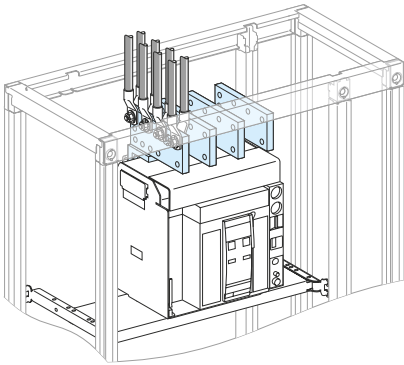
Covering an incomer

For Masterpact NW/NT /NS1600b-3200 / Compact NS630b-1600

- Disassemble the cover plate to access to the device connection terminals.
- Connect the cables, respecting the required electrical clearances.
- Cut out the part of the cover disassembled in order to let the cables pass through it, while preserving the necessary degree of protection.

Practical information

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Removable upper cross-member.

Connecting to terminal extension bars

- Check that the circuit and switchgear identification indications match.
- When connections are made to terminal extensions made up of several bars for each phase, position the lugs opposite one another and insert copper spacers between the bars.
- Comply with the minimum required electrical clearances between phases of 14 mm (conforming with IEC 60439-1).
- Mark all nuts and the terminal extension bars with a dot of varnish after tightening to the defined torque.
- Remove the top cross-member of the cubicle to simplify connection of the cables to the bars.
- Tie cables of the same phase together.

Connection directly to device terminals

- When connections are made directly to the switchgear terminals, comply with the tightening torque recommended by the device manufacturer.
- Check that the length of the screws delivered with the switchgear is compatible with the lug thickness.
- Comply with the safety clearances around the switchgear devices, defined by the manufacturer to ensure correct operation.
- Refit the interphase barriers and terminal shields if applicable after connection the power cables.
- For the special case of connection with armoured cable, please consult us.

Maintenance

Frequency

- The frequency of preventive maintenance depends primarily on the operating conditions of the electrical switchboard.
- For operating conditions found in normal environments, the frequency should be as indicated in the recommended calendar.
- It may be extended if the switchboard is used in a particularly clean environment and not in an intensive manner.
- It must be reduced if the switchboard is used in a particularly aggressive environment (dust, humidity, corrosive vapours, heat) or is used intensively.

Recommended calendar

Type	Action	Frequency
General inspection	Visual checks and general cleaning. Visual check of busbars. Running tests	Once a year
Maintenance on functional units	Inspection of the connections	Every 5 years
Maintenance of ventilation system	Cleaning of filters	Every 6 months
Maintenance of devices	According to the respective handbooks	

General recommendations

Before any intervention on the connections, switch off the functional unit, remove the protective screens and the partitioning sheets and boxes.

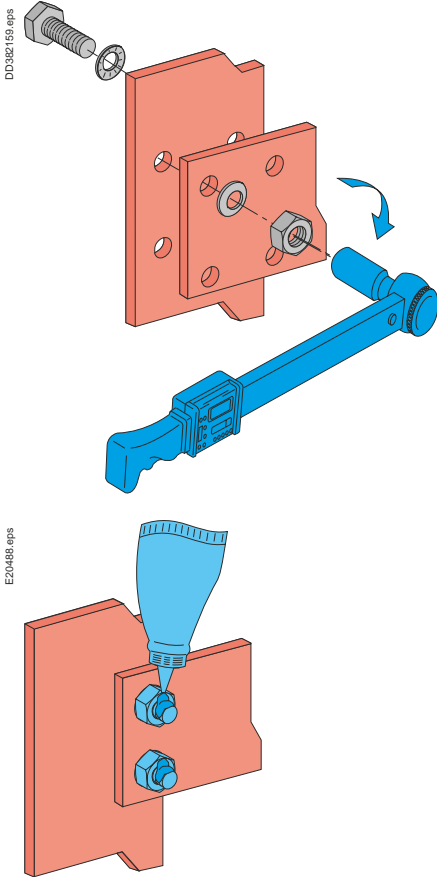
- For interventions on the connections, refer to chapter "Connections", profession Install.
- When reassembling the connections:
 - use new screws, washers, nuts of the same type (class 8.8)
 - tighten to the defined torque (refer to the tightening torques table in the chapter "Connection/Tools required")
 - apply varnish.

Method of inspection of the electrical connections

- Connections by lugs or screwed bars: presence of varnish, colour changes of a copper bar.
- Connections by cage type terminals: if necessary, re-screw to the torque defined by the manufacturer to compensate for a possible creep.

Please ensure that you consult the "General" chapter section dealing with safety instructions.

Maintenance



General inspection

Visual checks and general cleaning of the cubicles

- Check the lack of humidity and foreign bodies inside and outside the switchboard.
- Examine the outer finish. If necessary, touch up any paint scratches and replace any damaged or rusted parts.
- Clean the switchboard, preferably with a vacuum cleaner.
- If necessary, clean the ventilation system and change the filters.

Visual check of busbars

- Connections do not need to be tightened as they were already tightened to the tightening torque in workshop and the use of a contact washer compensates for possible creeps due to overheating. The presence of vernish guaranteeing correct tightening torque, is intact.
- The control of busbars connections and outgoing cables connections can be carried when disassembling the protection (out of supply) or if a hot point is detected (infrared control or thermal sensors). A hot point materialises by a change in the copper colour.
- In case of hot point see "Corrective maintenance".
- Check the condition of insulating busbars supports.

Cleaning of panel ventilation filters**Standard or fine filters**

- Wash with water (preferably using a high-quality detergent).
- It is also possible to remove the dust by tapping, vacuuming or blowing with compressed air.
- If there is any oil or grease, change the filter.

Maintenance

General

General recommendations

- Before any intervention on the connections, switch off the cubicle, remove the protective screens and the partitioning sheets and boxes.
- When reassembling the connections:
 - use new screws, washers, nuts of the same type (class 8.8)
 - tighten to the defined torque (refer to the tightening torque table in chapter "Connection/Connection of power cables")
 - apply varnish.

Hot point

Screwed connection

- Identify the cause: generally a loosening connection.
- Dismantle the assembly.
- Clean and rub down surfaces in contact (e.g. sandpaper N° 400).
- Set the connection up.

Maintenance after a fault has occurred

The high currents resulting from a fault cause damage to structures, components, busbars and cables.

Following a fault, contact your local Schneider Electric office.

Troubleshooting and interventions

For any interventions other than those described in this manual, **contact your local Schneider Electric agency.**

Notes

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