



# PrismaSeT P Specific Applications

**Catalog 2026**

Floor-Standing Enclosures  
for Electrical Distribution up to 3200 A

**Version 1.0**



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<b>NSYTRR22</b>	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, D-112
<b>NSYTRR22BL</b>	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, D-112

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<b>NSYTRR22SC</b>	SPRING TERMINAL, KNIFE DISCONNECT, 2 POI	C-86, D-112	<b>NSYTRV22MPE</b>	SCREW TERMINAL, MINI, FOR 15MM DIN RAIL,	C-86, D-112
<b>NSYTRR23</b>	SPRING TERMINAL, FEED THROUGH, 3 POINTS,	C-86, D-112	<b>NSYTRV22PE</b>	SCREW TERMINAL, PROTECTION, 2PTS,2,5MM	C-86, D-112
<b>NSYTRR23BL</b>	SPRING TERMINAL, FEED THROUGH, 3 POINTS,	C-86, D-112	<b>NSYTRV22SC</b>	SCREW TERMINAL, KNIFE DISCONNECT, 2 POIN	C-86, D-112
<b>NSYTRR23PE</b>	SPRING TERMINAL, PROTECTIVE EARTH, 3 POI	C-86, D-112	<b>NSYTRV22ST</b>	SCREW TERMINAL, KNIFE DISCONNECT, 2 POIN	C-86, D-112
<b>NSYTRR23SC</b>	SPRING TERMINAL, KNIFE DISCONNECT, 3 POI	C-86, D-112	<b>NSYTRV24D</b>	SCREW TERMINAL,2 LEVEL, 4PTS,2,5MMA	C-86, D-112
<b>NSYTRR24</b>	SPRING TERMINAL, FEED THROUGH, 4 POINTS,	C-86, D-112	<b>NSYTRV24DBL</b>	SCREW TERMINAL,2 LEVEL, 4PTS,2,5MMA	C-86, D-112
<b>NSYTRR24BL</b>	SPRING TERMINAL, FEED THROUGH, 4 POINTS,	C-86, D-112	<b>NSYTRV26T</b>	SCREW TERMINAL,3 LEVEL, 6PTS,2,5MMA	C-86, D-112
<b>NSYTRR24D</b>	SPRING TERMINAL, DOUBLE LEVEL, 4 POINTS,	C-86, D-112	<b>NSYTRV42</b>	SCREW TERMINAL, FEED THROUGH, 2 POINTS,	C-86, D-112
<b>NSYTRR24PE</b>	SPRING TERMINAL, PROTECTIVE EARTH, 4 POI	C-86, D-112	<b>NSYTRV42AR</b>	SCREW TERMINAL, FEED THROUGH, 2Pts,4MMA	C-86, D-112
<b>NSYTRR26T</b>	SPRING TERMINAL,	C-86, D-112	<b>NSYTRV42BL</b>	SCREW TERMINAL, FEED THROUGH, 2Pts,4MMA	C-86, D-112
<b>NSYTRR42</b>	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, D-112	<b>NSYTRV42M</b>	SCREW TERMINAL, MINI, FOR 15MM DIN RAIL,	C-86, D-112
<b>NSYTRR42BL</b>	SPRING TERMINAL, FEED THROUGH, 2 POINTS,	C-86, D-112	<b>NSYTRV42MBL</b>	SCREW TERMINAL, MINI, FOR 15MM DIN RAIL,	C-86, D-112
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<b>NSYTRV22BL</b>	SCREW TERMINAL, FEEDTHROUGH, 2Pts,2,5MM	C-86, D-112	<b>NSYTRV62TT</b>	SCREW TERMINAL, FEED THROUGH, MEASURING	C-86, D-112
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# Overview

Prisma**SeT** G Enclosures up to 630 A  
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B

# To respond to increasing building requirements



Improve the continuity of service



Ensure the safety of life and property

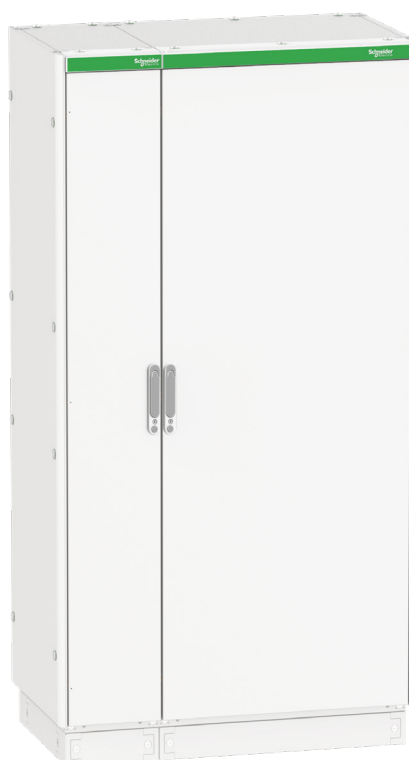


Control deadlines and costs

# PrismaSeT:

The optimised, tested and IEC compliant solution, for low voltage electrical distribution and control switchboards.

B



## PrismaSeT, A comprehensive range of enclosures and cubicles

- > A solution based on more than **30 years of experience** in low voltage switchboards.
- > Integrating Schneider Electric switchgear offerings and ensuring electrical, mechanical, and communication **functions complete consistency**.
- > Quality production, **certified ISO 9001** and manufactured in Montmélián (France).

# PrismaSeT G Enclosures up to 630 A



250 A

## PrismaSeT G Pack 250

- Schools
- Small shops
- Hotels, etc.



630 A

- Small companies
- Buildings
- Offices
- Laboratories
- Healthcare centres
- Hotels
- Supermarkets
- Malls, etc.

## PrismaSeT G



# PrismaSeT P Cubicles up to 4000 A

The optimised, tested, and IEC compliant solution, for low voltage electrical distribution and control switchboards.



B

- Hospitals
- Data centres
- Logistics centres
- Shopping centres
- Offices buildings
- Medium industrial solutions

## PrismaSeT P



## PrismaSeT P specific applications

- PrismaSeT P 690 V AC
- PrismaSeT P Internal Arc

### Energy management has never been simpler

Smart Panels connect you to energy savings in three steps.

#### 1. Measure

Embedded and stand-alone metering & control capabilities

- Embedded and stand-alone metering
- Control capabilities

#### 2. Connect

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

#### 3. Act

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



Tested, Validated, Documented Smart Panels architecture  
 Smart Panels have been certified via Schneider Electric's "TVDA" quality process  
 Tested in performance labs by experts, in the most common configuration  
 Validated full functional compatibility of devices  
 Documented, with user guide, predefined CAD panel designs & wiring diagrams

PrismaSeT P  
690 V AC

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## Prisma**SeT** P 690 V AC

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## Less current, more power density; **smarter design** and **higher efficiency**

As electrification accelerates across buildings, electrical distribution systems must deliver more with less, especially over longer distances and in more demanding environments.

As a result, **operators** and **designers face new challenges**:



Pressure to **reduce CapEx** and operational costs



Demand for **faster project delivery**



Need for modular, **scalable infrastructure**



Increasing focus on **energy efficiency** and **sustainability**

## Why PrismaSeT P 690 V AC?

690 V distribution operates under more demanding electrical conditions than standard 415 V systems. This makes certified design, rigorous testing, and proven architecture essential.

PrismaSeT P 690 V AC is built and validated to meet these requirements, ensuring reliable and safe operation in high-performance environments.

By operating at higher voltage, it enables more efficient power transmission with lower current, reducing system losses across the installation.

This results in:



**Lower energy losses** over long cable runs



More compact and **optimized installations**



**Reduced cable sizes** and material usage

C

## Where 690 V distribution delivers the most value



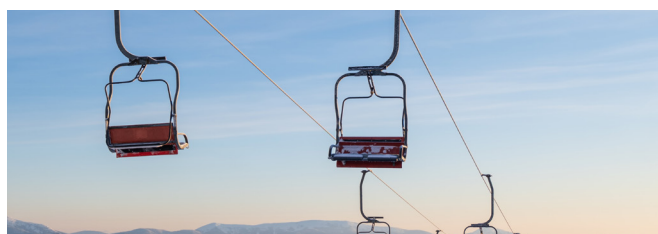
### Industrial applications

Supports high-power loads with lower current, reducing cable sizing and distribution losses across large facilities.



### Tunnels

Enables efficient long-distance power distribution with minimized voltage drop and optimized infrastructure footprint.



### Ski Resorts

Improves power delivery efficiency across geographically dispersed installations and extended cable routes.



### Large infrastructure

Optimizes power distribution in environments with distributed electrical loads and demanding uptime requirements.

## Engineered for high-performance, long-distance power distribution

Designed to address the evolving challenges of electrification; higher power demand, longer distribution distances, and the need for faster, more efficient installations, PrismaSeT P 690 V AC combines performance, scalability, and cost efficiency in a single solution.



### Ensuring compliance and operational confidence

- Designed in accordance with **IEC 61439-1 & 2** standards
- Supports safe, reliable, and verified LV power distribution



### Delivering high-power distribution over longer distances

- Up to 3200 A with high short-circuit performance
- Covers the majority of LV distribution use cases



### Adapting to evolving infrastructure needs

- Up to 36 vertical modules for flexible configurations
- Easily expandable to support evolving system requirements



### Accelerating project delivery

- Functional system architecture simplifies engineering and assembly
- Linergy busbars reduce wiring time and installation cost



### Supporting sustainability goals

- Helps reduce carbon footprint and material waste
- Enables energy-efficient infrastructure
- Reduced footprint and material usage



### See PrismaSeT P in action

Discover how it enhances installation safety.



[Click to find out more](#)

# Prisma**SeT** P 690 V AC Cubicles up to 3200 A - IP31 and IP55



C



## Electrical characteristics

- Rated insulation level of main busbars: 1000 V
- InA: 3200 A
- Rated peak withstand current I<sub>pk</sub>: 220 kA
- Rated short-time withstand current I<sub>sw</sub>: 100 kA rms / 1 second
- Frequency: 50/60 Hz
- Voltage U<sub>e</sub> = 690 V under conditions as described in this catalog.



Control devices should be connected to control circuit up to 415 V.



For Switchboard Assembly and Earthing Continuity instructions, refer *How to Assemble the Electrical Switchboard* Guide PHA2165500.



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



## Mechanical characteristics

- Steel sheet metal
- Cataphoresis treatment + hot-polymerised polyester epoxy powder, white color RAL 9003
- Can be dismantled
- Can be combined side-by-side and back-to-back
- Degree of protection:
  - IP31
  - IP55
- Degree of protection against mechanical impacts:
  - IK10
- 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

# Functional Units

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## Others

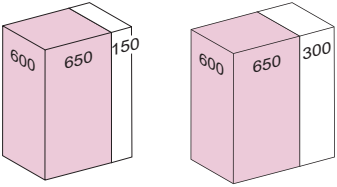
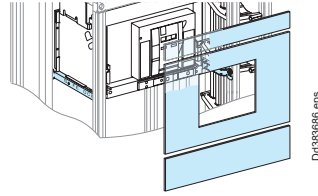
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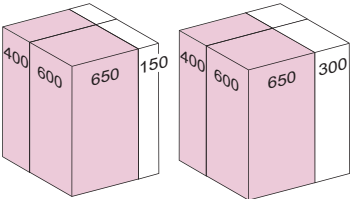
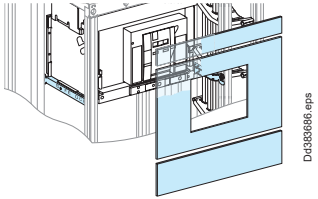
# MasterPact MTZ2 08 to 32


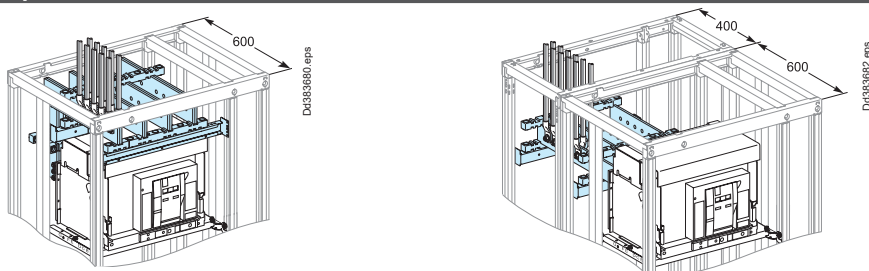
## Cables connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules <sup>(1)</sup>		18	19	19	20
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates		upstream	LVS03804 [4]	LVS03805 [5]	LVS03805 [5]
[No. of vertical modules]		with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]
		downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		14	14	15	15
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates		with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]
[No. of vertical modules]		downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Connection		Upstream on incomer	
			
Devices		Fixed device	Withdrawable device
		MTZ2 08/32	MTZ2 08/32
Type of terminals		Vertical rear connections supplied with the device	
Connection		must be made <sup>(2)</sup>	
Front connection		bar supports	
		2 x LVS04694 + LVS04678	
		cables cover	
		LVS04861	
Rear connection		bar supports	
		2 x LVS04694	
		cables cover	
		LVS04863	

(1) For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200 A. Select downstream plain front plate (LVS03806).


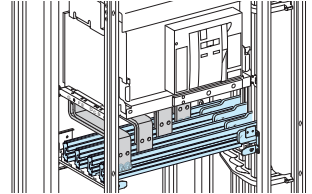
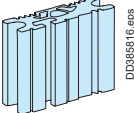
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

# MasterPact MTZ2 08 to 32

Cables connection

Fixed, withdrawable

Circuit breakers

Distribution		Downstream on Linergy LGYE busbars					
							
Devices		Fixed and withdrawable MTZ2 08/16		Fixed and withdrawable MTZ2 20/25		Fixed and withdrawable MTZ2 32	
		3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device.					
For vertical busbar Lineray LGYE <sup>(1)</sup> 	Connection	-	-	LVS04495	LVS04496	LVS04497 <sup>(2)</sup>	LVS04498 <sup>(2)</sup>
	Joint	-	-	3 x LVS04685	4 x LVS04685	3 x LVS04687	4 x LVS04687
	Free support	2 x LVS04662 For I <sub>cw</sub> ≥ 75 kA rms, add an additional free support LVS04662.					
	Cover	LVS04925 + LVS04928					

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

(2) One additional module is required, select LVS03806 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 (LVS03801) or install a Micrologic control unit capable of displaying the values.  
Selection of busbars: Linergy LGYE > page C-72.

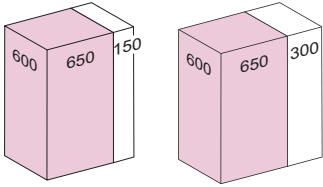
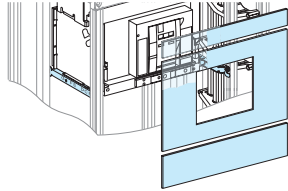


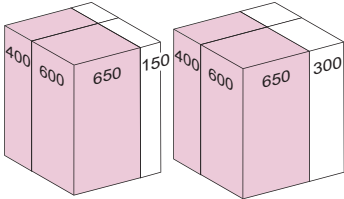
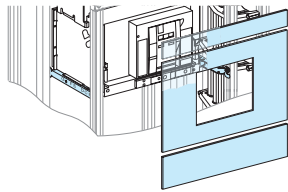
# MasterPact MTZ2 08 to 32


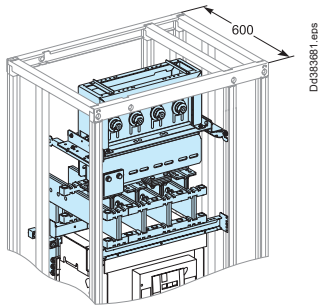
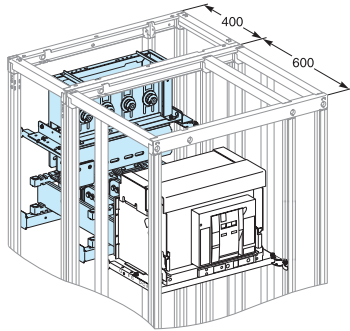
## Canalis connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules <sup>(1)</sup>		27	28	27	28
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03805 [5] 2 x LVS03804 [8]	2 x LVS03805 [10] LVS03804 [4]	3 x LVS03804 [12]	LVS03805 [5] 2 x LVS03804 [8]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		16	16	17	17
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]

Connection		Upstream on incomer											
													
Devices		Fixed device			Withdrawable device								
		MTZ2 08/16	MTZ2 20/25	MTZ2 32	MTZ2 08/16	MTZ2 20/25	MTZ2 32	MTZ2 08/16	MTZ2 20/25	MTZ2 32			
Type of terminals		Vertical rear connections supplied with the device											
Canalis support		LVS03561											
Canalis interface <sup>(2)</sup>		3P	4P	3P	4P	3P	4P	3P	4P	3P	4P		
		LVS04715	LVS04716	LVS04725	LVS04726	LVS04735	LVS04736	LVS04715	LVS04716	LVS04725	LVS04726	LVS04735	LVS04736
Front connection	Bar supports	2 x LVS04694 + LVS04678											
	Extension bars	must be made <sup>(3)</sup>											
	Canalis Cover	LVS04871 + LVS04861											
Rear connection	Bar supports	2 x LVS04694											
	Extension bars	must be made <sup>(3)</sup>											
	Canalis Cover	LVS04871 + LVS04863											

(1) For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200 A. Select downstream plain front plate (LVS03806).

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


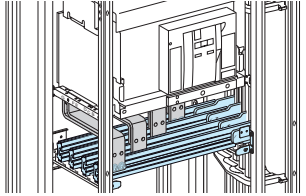
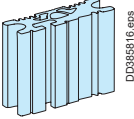
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

# MasterPact MTZ2 08 to 32

Canalis connection

Fixed, withdrawable

Circuit breakers

Distribution		Downstream on Linergy LGYE busbars					
							
Fixed / Withdrawable devices		MTZ2 08/16		MTZ2 20/25		MTZ2 32	
		3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device.					
For vertical busbar Linergy LGYE <sup>(1)</sup> 	Connection	–	–	LVS04495	LVS04496	LVS04497 <sup>(2)</sup>	LVS04498 <sup>(2)</sup>
	Joint	–	–	3 x LVS04685	4 x LVS04685	3 x LVS04687	4 x LVS04687
	Free support	2 x LVS04662 For I <sub>cw</sub> ≥ 75 kA rms, add an additional free support LVS04662.					
	Cover	LVS04925 + LVS04928					

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

(2) One additional module is required, select LVS03806 plain front plate for downstream.

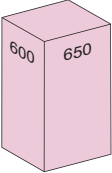
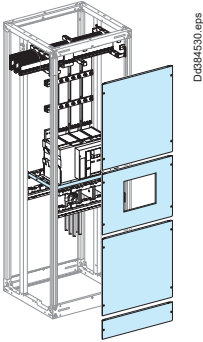

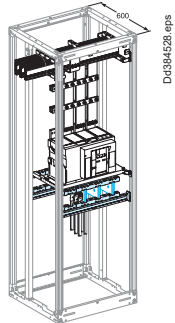


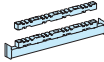
**Note:** To make measurements, install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.  
 Selection of busbars: Linergy LGYE > page C-72.

# MasterPact MTZ2 08 to 32

Dedicated cubicle - W = 650 mm

Fixed, withdrawable

Circuit breakers

Mounting		Dedicated cubicle	
			
Devices		Fixed device	Withdrawable device
		<b>MTZ2 08/32</b>	<b>MTZ2 08/32</b>
Number of devices per row		1	1
No. of vertical modules		<b>36</b>	<b>36</b>
Mounting plates		<b>LVS03500</b>	<b>LVS03500</b>
Front plates [No. of vertical modules]	upstream <sup>(1)</sup>	<b>LVS03808 [12]</b>	<b>LVS03808 [12]</b>
	with cut-out	<b>LVS03711 [9]</b>	<b>LVS03710 [10]</b>
	downstream	<b>LVS03808 [12] + LVS03803 [3]</b>	<b>LVS03808 [12] + LVS03802 [2]</b>
Connection		Upstream with bottom cables	
			
Fixed / withdrawable devices		<b>MTZ2 08/32</b>	
Type of terminals		Vertical rear connectors	
Terminal extension bars for connection		must be made <sup>(2)</sup>	
Terminal extension bar supports		<b>LVS04694 x 2</b>	
Cables cover		<b>LVS04861</b>	

(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:  
 ■ 2 or 3-module front plates + 1 plain front plate **LVS03806** (6 modules).

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


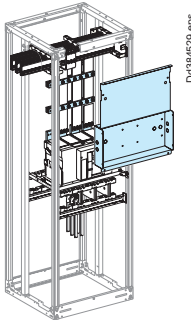
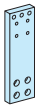
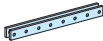

Human-switchboard interface > page C-36.

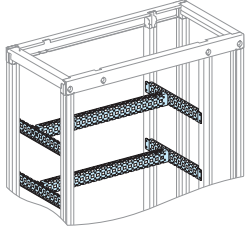
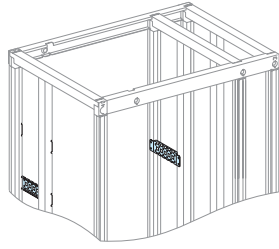
# MasterPact MTZ2 08 to 32

Dedicated cubicle - W = 650 mm

Fixed, withdrawable

Circuit breakers

Distribution		Downstream up links on horizontal busbars Linergy LGYE		
				
<b>Fixed / Withdrawable devices</b>		<b>MTZ2 08/16</b>	<b>MTZ2 20/25</b>	<b>MTZ2 32</b>
Type of terminals		Front connection		
Spacing rods for flat bars		LVS04690 x 2	LVS04690 x 2	LVS04690 x 2
Connection	horizontal 3200 A mounting hardware	Connection must be made <sup>(1)</sup>		
Busbar cover <sup>(2)</sup>		LVS04860	LVS04860	LVS04860

Accessories	
 	
<b>Cross-members</b>	
Catalog number	<b>LVS03584</b>
Characteristics	Set of 2 For 650 mm wide and 400 mm deep cubicle
Catalog number	<b>LVS03586</b>
Characteristics	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) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(2) The cover is compulsory behind front plates designed for measurement devices.

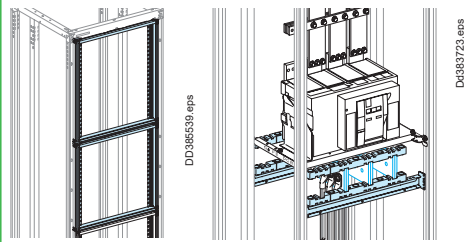
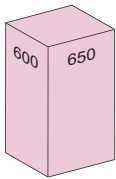
# MasterPact MTZ2 08 to 32

Partial front plate support frames

Withdrawable

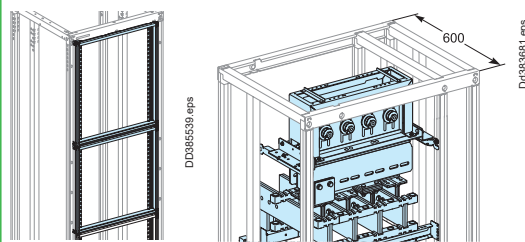
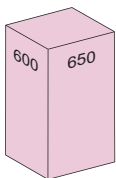
Circuit breakers

## Mounting Front connection with cables in dedicated cubicle



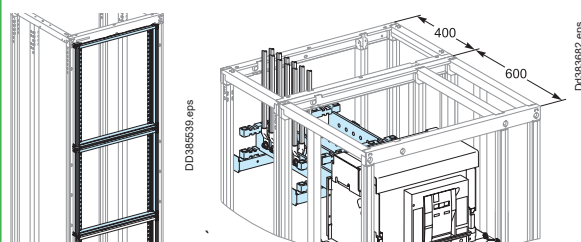
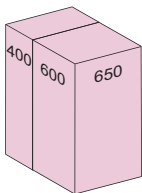
<b>Devices</b>	<b>Withdrawable device</b>	
	<b>MTZ2 08/32</b>	
No. of vertical modules	36 <sup>(3)</sup>	
Mounting plates	LVS03500	
Front plates [No. of vertical modules]	upstream	2 x LVS03806 [12]
	with cut-out	LVS03709 [10]
	downstream	2 x LVS03806 [12]
1/3 front plate support frame	LVS08560 <sup>(1)</sup> + 2 x LVS08562 <sup>(2)</sup>	
Cover	LVS04861	

## Mounting Canalis front connection



<b>Devices</b>	<b>Withdrawable device</b>	
	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
No. of vertical modules	27 <sup>(3)</sup>	28 <sup>(3)</sup>
Mounting plates	LVS03500	
Front plates [No. of vertical modules]	upstream	3 x LVS03804 [12]
	with cut-out	LVS03709 [10]
	downstream	LVS03804 [4]
1/3 front plate support frame	LVS08560 <sup>(1)</sup> + 2 x LVS08562 <sup>(2)</sup>	
Cover	LVS04861	

## Mounting Rear connection with cables



<b>Devices</b>	<b>Withdrawable device</b>	
	<b>MTZ2 08/32</b>	
No. of vertical modules	15 <sup>(3)</sup>	
Mounting plates	LVS03500	
Front plates [No. of vertical modules]	upstream	–
	with cut-out	LVS03709 [10]
	downstream	LVS03804 [4]
1/3 front plate support frame	LVS08560 <sup>(1)</sup> + 2 x LVS08562 <sup>(2)</sup>	

(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.



# MasterPact MTZ1 06 to 16

## Cables connection

Fixed, withdrawable

### Circuit breakers

Mounting		Front connection with cables			
Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Number of devices per row		1	1	1	1
No. of vertical modules		12	14	13	15
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]

Mounting		Rear connection with cables	
Devices		Fixed device	Withdrawable device
		MTZ1 06/16	MTZ1 06/16
Number of devices per row		1	1
No. of vertical modules		11	11
Mounting plates		LVS03484	LVS03483
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	-
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]

Connection		Upstream on incomer							
Devices		Fixed device				Withdrawable device			
		MTZ1 06/10		MTZ1 12/16		MTZ1 06/10		MTZ1 12/16	
		3P	4P	3P	4P	3P	4P	3P	4P
Front connection	type of terminals	Front connections supplied with the device							
	vert. connection adapters	33642 (1)	33643 (1)	33642 (1)	33643 (1)	33642 (1)	33643 (1)	33642 (1)	33643 (1)
	cable-lug adapters	Direct		33644 (1)	33645 (1)	Direct		33644 (1)	33645 (1)
	spacing rods	-		LVS04691		-		LVS04691	
Rear connection	arc-chute cover	47335	47336	47335	47336	-			
	cables cover	LVS04852							
	type of terminals	Vertical rear connections supplied with the device							
	terminal extension bar support	2 x LVS04693							
	cables cover	LVS04854							
	extension bars	must be made (2)							

Distribution		Downstream on Linergy LGYE busbar					
Devices		Fixed device			Withdrawable device		
		MTZ1 06/12		MTZ1 16	MTZ1 06/12		MTZ1 16
		3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device					
Prefabricated connection to busbars	Linergy LGYE	must be made (2)					
Cover for busbars connection		add free supports: 2 x LVS04662					
		LVS04926					

(1) Vertical connection adapters and cable-lug adapters and CT, are not compatible with input voltage ≥ 440 V due to mandatory barriers installation (LVS33648 or LVS33768).

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

**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 (LVS03801) or install a Micrologic control unit capable of displaying the values.

Selection of busbars: Linergy LGYE > page C-72.

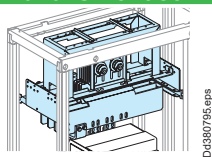
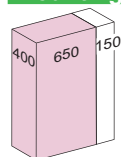
# MasterPact MTZ1 06 to 16

## Canalis connection

Fixed, withdrawable

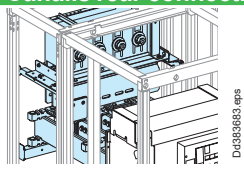
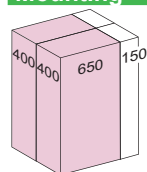
Circuit breakers

### Mounting Canalis front connection



Devices		Fixed device		Withdrawable device	
		MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16
Number of devices per row		1	-	1	-
No. of vertical modules		17	-	18	-
Mounting plates		LVS03484	-	LVS03483	-
Front plates		LVS03804 [4] + LVS03803 [3]	-	LVS03804 [4] + LVS03803 [3]	-
[No. of vertical modules]	upstream	LVS03804 [4] + LVS03803 [3]	-	LVS03804 [4] + LVS03803 [3]	-
	with cut-out	LVS03692 [7]	-	LVS03691 [8]	-
	downstream	LVS03803 [3]	-	LVS03803 [3]	-

### Mounting Canalis rear connection



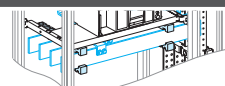
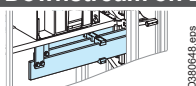
Devices		Fixed device		Withdrawable device	
		MTZ1 06/16	MTZ1 16	MTZ1 06/16	MTZ1 16
Number of devices per row		1	-	1	-
No. of vertical modules		16	-	16	-
Mounting plates		LVS03484	-	LVS03483	-
Front plates		LVS03806 [6]	-	LVS03805 [5]	-
[No. of vertical modules]	upstream	LVS03806 [6]	-	LVS03805 [5]	-
	with cut-out	LVS03692 [7]	-	LVS03691 [8]	-
	downstream	LVS03803 [3]	-	LVS03803 [3]	-

### Connection Upstream on incomer



Devices		Fixed device				Withdrawable device			
		MTZ1 06/12		MTZ1 16		MTZ1 06/12		MTZ1 16	
		3P	4P	3P	4P	3P	4P	3P	4P
Canalis support		LVS03561				-			
Canalis interface (1)		LVS04703	LVS04704	LVS04703	LVS04704	LVS04703	LVS04704	LVS04703	LVS04704
Front connection		Front connections supplied with the device							
Type of terminals		-							
Canalis/device connection		LVS04711	LVS04712	-	-	LVS04711	LVS04712	-	-
Arc-chute cover		47335	47336	-	-	-	-	-	-
Canalis cover		LVS04871 + LVS04852				LVS04871 + LVS04852			
Rear connection		Vertical rear connections supplied with the device							
Type of terminals		-							
Terminal extension bar support		2 x LVS04693				-			
Canalis/device connection		LVS04713	LVS04714	LVS04713	LVS04714	LVS04713	LVS04714	LVS04713	LVS04714
Cable cover		LVS04871 + LVS04854							
Extension bars		must be made (2)							

### Distribution Downstream on Linergy LGYE busbar



Devices		Fixed device				Withdrawable device			
		MTZ1 06/12		MTZ1 16		MTZ1 06/12		MTZ1 16	
		3P	4P	3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device							
Prefabricated connection Linergy LGYE to busbars		must be made (2)							
Cover for busbars connection		add free supports: 2 x LVS04662 LVS04926							

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

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

**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 (LVS03801) or install a Micrologic control unit capable of displaying the values.

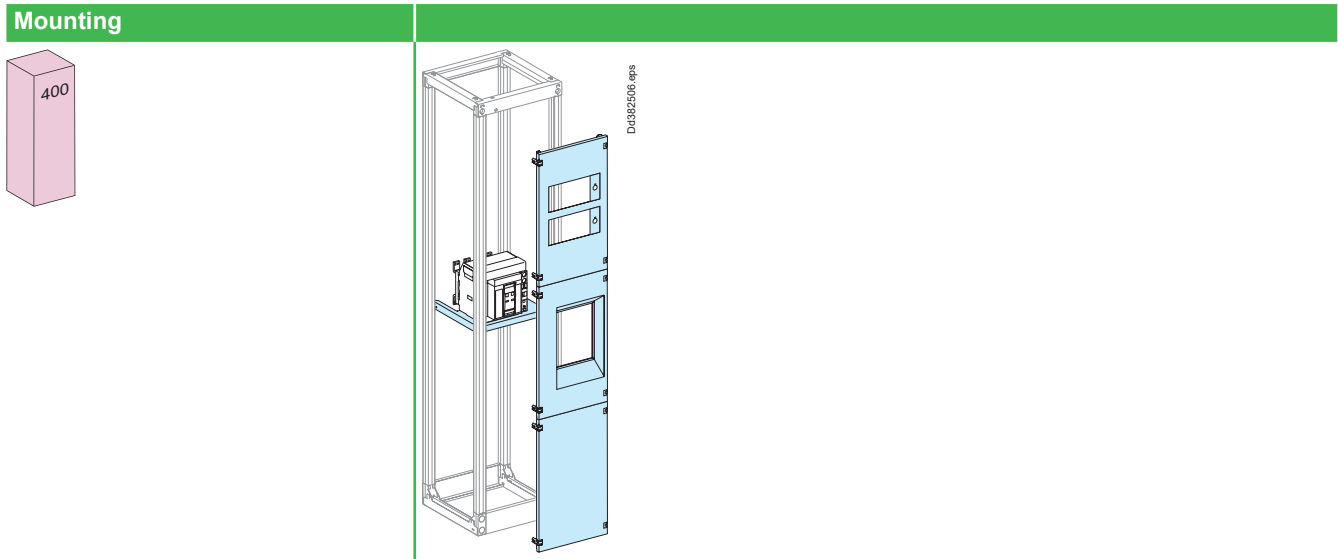
Selection of busbars: Linergy LGYE > page C-72.

# MasterPact MTZ1 06 to 16

Dedicated cubicle 3P - W = 400 mm

Fixed, withdrawable

Circuit breakers



Devices	Fixed device	Withdrawable device
	<b>MTZ1 06 to MTZ1 16</b>	
Number of devices per cubicle	1	1
No. of vertical modules	<b>37</b>	<b>37</b>
Mounting plates	<b>LVS03489</b>	<b>LVS03488</b>
Front plates		
with cut-out	<b>LVS03698 [11]</b>	<b>LVS03699 [11]</b>
[No. of vertical modules]		
upstream <sup>(1)</sup> cut-out for 72 x 72 or 96 x 96 mm	<b>LVS03723 [13]</b>	<b>LVS03723 [13]</b>
or plain	<b>LVS03722 [13]</b>	<b>LVS03722 [13]</b>
downstream <sup>(1)</sup> plain	<b>LVS03722 [13]</b>	<b>LVS03722 [13]</b>

## Measurement-device installation

Measurement devices are installed on a front plate (**LVS03723**) 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
<b>Mounting on interface with plastic mounting plates</b>				
3 x <b>72 x 72</b> Vigirex and other devices 72 x 72 without switch		13	 DD385465 eps	 DD385468 eps To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45
2 x <b>96 x 96</b> Power Meter and others devices 96 x 96			 DD385467 eps	 DD385468 eps To blank-off or install: - 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45 - 1 device 72 x 72
1 x <b>96 x 96</b> <sup>(2)</sup> For PM200, 200P, PM5 & PM8 series meters			<b>LVS03723</b>	<b>LVS03903</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Installation of three devices (72 x 72 mm cases) using plastic mounting plates (<b>LVS03902</b>) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (<b>LVS03903</b>) on a hinged front plate (<b>LVS03723</b>).</li> <li>■ The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices.                              Knock-outs for LVS03900: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device.                              Knock-outs for LVS03901: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device.</li> </ul>			


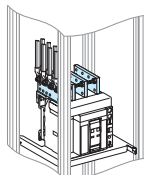
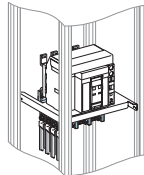
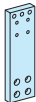


(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.

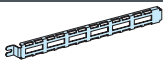
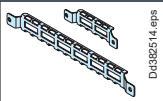
(2) For PM200, 200P, PM5 & PM8 series meters, use 1 no. blank-off sheet with each meter in a row.

# MasterPact MTZ1 06 to 16


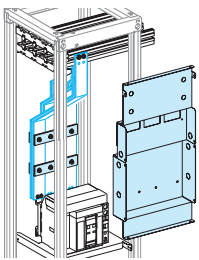

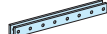

Dedicated cubicle 3P - W = 400 mm  
Fixed, withdrawable

Circuit breakers

Connection	Upstream on incomer	
	 Dd382672_1.eps	 Dd382689.eps
<b>Devices</b>	<b>Fixed device</b>	<b>Withdrawable device</b>
	<b>MTZ1 06 to MTZ1 16</b>	
Type of terminals 	Front connection	Front connection
Arc-chute cover 	<b>47335</b>	-
Vert. conn. adapters	<b>33642 (1)</b>	<b>33642 (1)</b>
Cable-lug adapters	<b>33644 (1)</b>	<b>33644 (1)</b>
Spacing rods 	<b>LVS04691</b>	<b>LVS04691</b>

Accessories		
	 Dd382513.eps	 Dd382514.eps
4 cable tie supports for framework	<b>W = 400</b> <b>LVS08774</b>	<b>D = 400</b> <b>LVS08794</b> <b>D = 600</b> <b>LVS08794 + LVS08796</b>

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

Distribution	Downstream on horizontal busbars Linergy LGYE	
	 Dd384890.eps	
<b>Fixed / Withdrawable devices</b>	<b>MTZ1 06 to MTZ1 16</b>	
Type of terminals 	Front connection	
Support 	2 x <b>LVS04692</b> For MTZ1 H1 & H2 3 x <b>LVS04692</b> For MTZ1 H3	
Barrier (1) 	<b>LVS04855</b>	
Horizontal-busbar connections 10 mm thickness bars	Connection must be made (2)	
Vertical-busbar connections	-	
Free support	-	

(1) A barrier must be installed behind front plate **LVS03723** when measurement devices are installed.

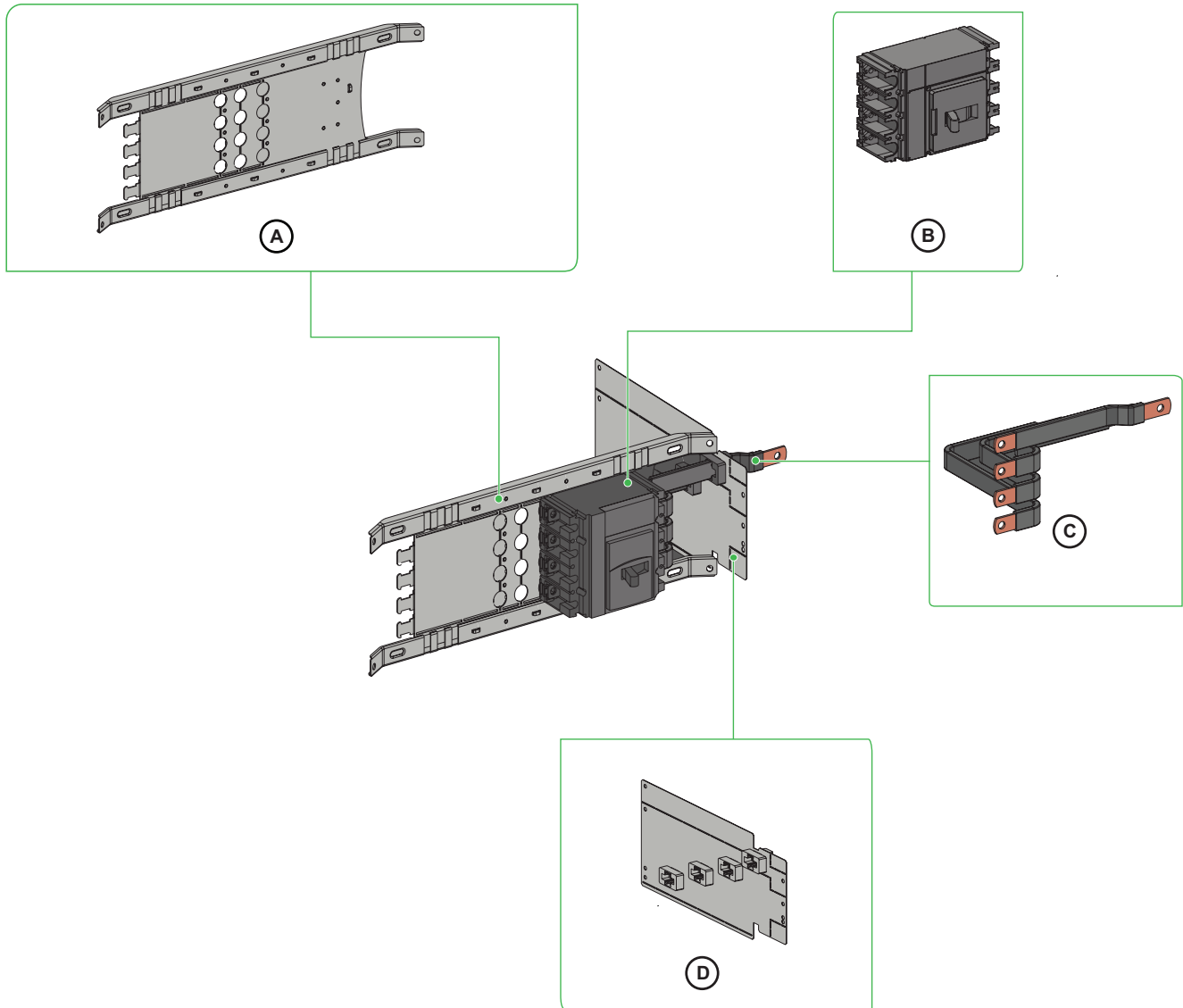
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(3) Catalog number **LVS04636** includes 1 connection only. Order 1 connection per phase.

# ComPacT NSX 100 to 250

Horizontal mounting

Toggle - Fixed

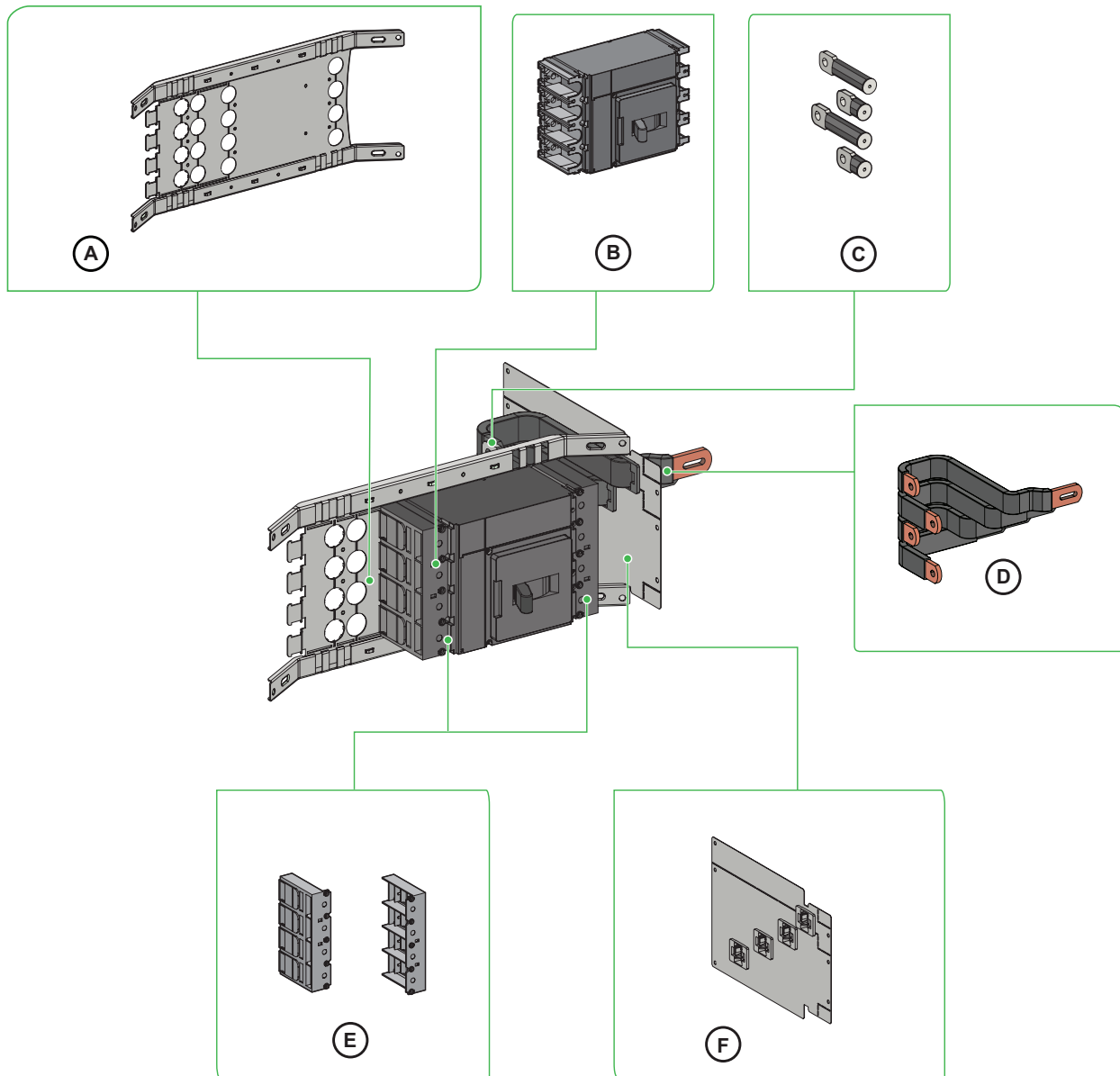


Item	Description
(A)	Mounting plate
(B)	Circuit breaker 690 V MCCB
(C)	Flexible busbar
(D)	Side VBB partition plate

# ComPacT NSX 400 to 630

Horizontal mounting

Toggle - Fixed



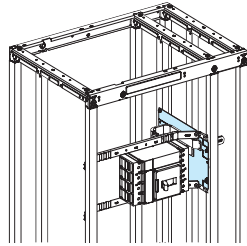
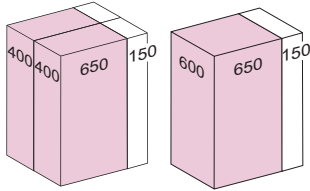
Item	Description
(A)	Mounting plate
(B)	Circuit breaker 690 V MCCB
(C)	Rear connectors
(D)	Flexible busbar
(E)	Power filter
(F)	Side VBB partition plate

# ComPacT NSX 100 to 630

Horizontal mounting

Toggle - Fixed

## Mounting Horizontal fixed

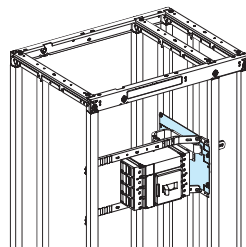


Devices	Toggle			
	NSX 100/160/250		NSX 400/630	
	3P	4P	3P	4P
Number of devices per row	1	1	1	1
No. of vertical modules	3	4	4	5
Mounting plates	LVS03411	LVS03412	LVS03449	LVS03450
Front plates with cut-out	LVS03604	LVS03606	LVS03643	LVS03644
VBB side plate	LVS04433	LVS04433	LVS04463	LVS04463
Power filter	-	-	LV435690	LV434690
Rear connector upstream connection	-	-	LV432475	LV432475
			LV432476	LV432476

## Connection Upstream from lateral busbars

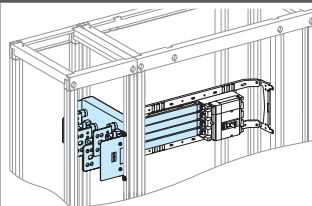
Fixed devices	Upstream from lateral busbars			
	NSX 100/160/250		NSX 400/630	
	3P	4P	3P	4P

Linery LGYE



Long terminal shields	LV429517	LV429518	-	-
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## Connection Downstream distribution



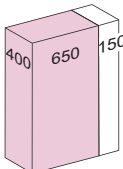
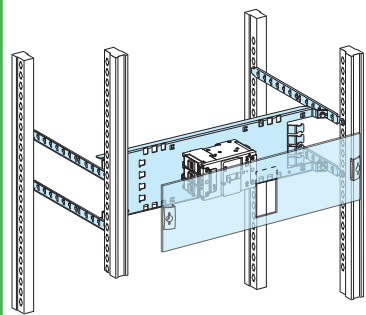
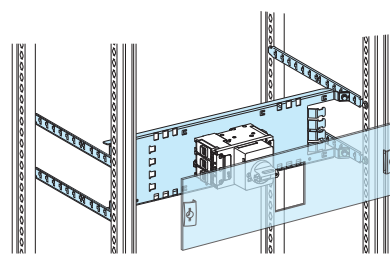

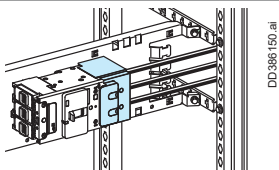
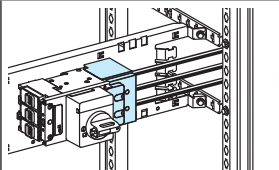

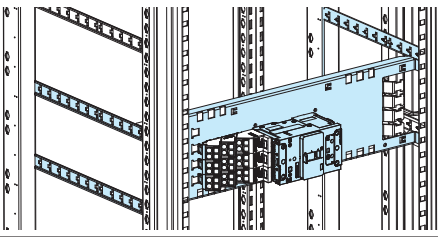
Fixed devices	Downstream distribution			
	NSX 100/250		NSX 400/630	
	3P	4P	3P	4P
Front connection long terminal shields	LV429517	LV429518	-	-
Connection connection transfer assembly	LVS04425	LVS04426	LVS04455	LVS04456
Rear connection short terminal shields	LV429515	LV429516	-	-
short rear connectors	LV429235		LV432475	
long rear connectors	LV429236		LV432476	

# ComPacT NSXm up to 63

Horizontal mounting

Toggle, rotary handle - Fixed

Circuit breakers

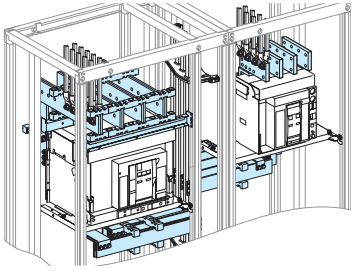
Mounting		Horizontal fixed	
		 <p style="text-align: right; font-size: small;">DD386146.ai</p>	
		 <p style="text-align: right; font-size: small;">DD386147.ai</p>	
Devices		Toggle	Direct rotary handle
		NSXm	
Number of devices per row		1 x 3P or 4P	1 x 3P or 4P
No. of vertical modules		3	3
Mounting plates		LVS03409	LVS03409
Front plates with cut-out [No. of vertical modules]		LVS03330 [3]	LVS03331 [3]
Connection		Upstream from lateral Linergy LGYE busbar	
		 <p style="text-align: right; font-size: small;">DD386150.ai</p>	
		 <p style="text-align: right; font-size: small;">DD386151.ai</p>	
Devices		Toggle	Direct rotary handle
		NSXm	
		3P	4P
Connection		Connections must be made	
Long terminal shields		LV426912	LV426913
			LV426912
			LV426913
Connection		Downstream distribution	
		Linergy DP distribution block	
			
Busbars / Distribution block		LVS04038, LVS04039 > page C-75	
Prefabricated connection		Connection must be made	



# Source-changeover

Possible combinations,  
MasterPact MTZ1 06/16, MTZ2 08/32

## Source-changeover

Manual source-changeover								
								
Type of device	Type of interlocking							
	Complete assembly	Toggle	Keylock	Rotary handle	On base plate	Cable-type with 2 devices side-by-side <sup>(1)</sup>	Cable-type with 3 devices side-by-side <sup>(1)</sup>	Cable-type with 2 devices one above another
MTZ1 06 to 16								
MTZ2 08 to 32								

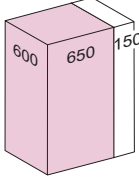
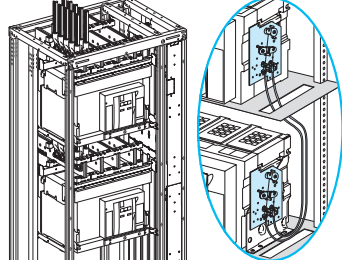


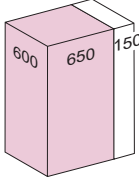
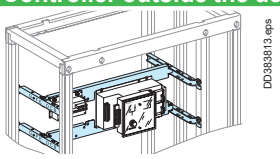
(1) In 2 or 3 cubicles.

Possible combinations.

# Manual or remote-operated or automatic source-changeover

## MasterPact MTZ2 08/32, front connection S1 device identical to S2 device

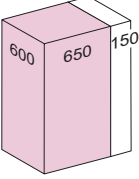
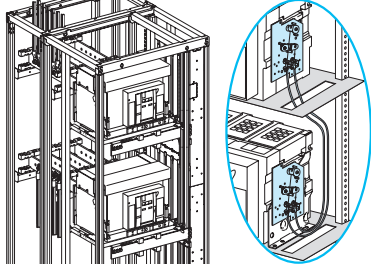


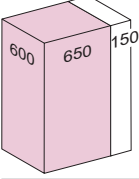
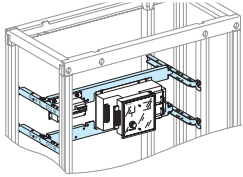
### Source-changeover

Mounting		Front connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2	2	2	2
Number of vertical modules		31	34	33	36
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		<b>S1 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]
		<b>S2 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>S1 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 06/10</b>	<b>MTZ2 20/32</b>
Downstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
		<b>S1 device</b>			
Upstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
Downstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates with cut-out [No. of vertical mod.]		LVS03671 [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.

Manual or remote-operated or automatic source-changeover  
 MasterPact MTZ2 08/32, rear connection S1 device identical to S2 device

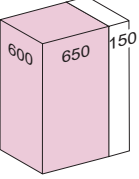
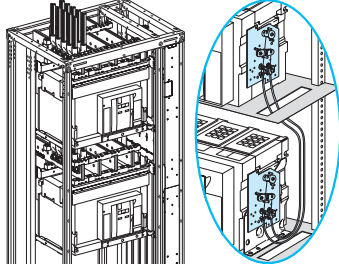


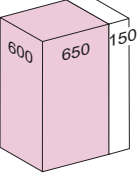
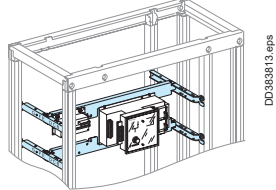
Source-changeover

Mounting		Rear connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2		2	
Number of vertical modules		23		26	
Mounting plates		LVS03500		LVS03500	
		<b>S1 device</b>			
		<b>MTZ2 08/16</b>		<b>MTZ2 20/32</b>	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	LVS03711 [9]		LVS03710 [10]	
	downstream	LVS03805 [5]		LVS03806 [6]	
		<b>S2 device</b>			
		<b>MTZ2 08/16</b>		<b>MTZ2 20/32</b>	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	LVS03711 [9]		LVS03710 [10]	
	downstream	-		-	
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>S1 device</b>			
		<b>MTZ2 08/16</b>		<b>MTZ2 20/32</b>	
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
		<b>MTZ2 08/16</b>		<b>MTZ2 20/32</b>	
Downstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
		<b>S1 device</b>			
Upstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
Downstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates with cut-out [No. of vertical mod.]		LVS03671 [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.

Manual or remote-operated or automatic source-changeover  
MasterPact MTZ2 08/32, front connection S1 device different to S2 device

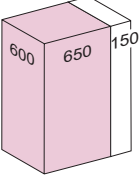
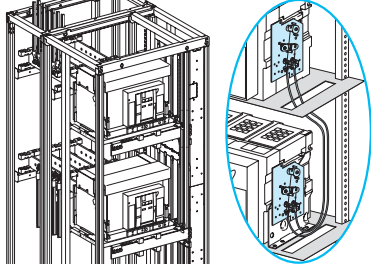


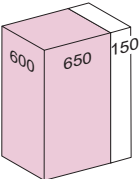
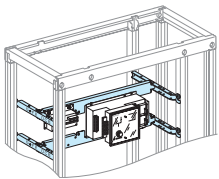
Source-changeover

Mounting		Front connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2	2	2	2
Number of vertical modules		33	33	35	35
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		<b>S1 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]
		<b>S2 device</b>			
		<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>S1 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
Upstream connection Connection		Vertical rear connections supplied with the device must be made <sup>(1)</sup>			
		<b>S2 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 T06/10</b>	<b>MTZ2 20/32</b>
Downstream connection Connection		Vertical rear connections supplied with the device must be made <sup>(1)</sup>			
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
		<b>S1 device</b>			
Upstream connection Connection		Front connections supplied with the device must be made <sup>(1)</sup>			
		<b>S2 device</b>			
Downstream connection Connection		Front connections supplied with the device must be made <sup>(1)</sup>			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.] with cut-out		LVS03671 [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.

Manual or remote-operated or automatic source-changeover  
 MasterPact MTZ2 08/32, rear connection S1 device different to S2 device

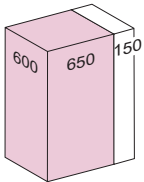
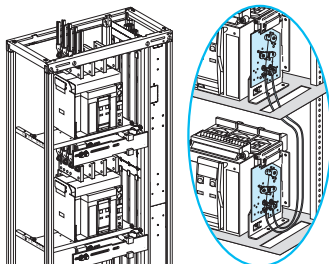


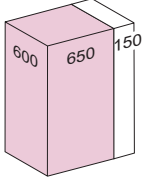
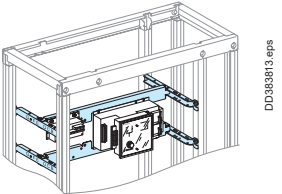
Source-changeover

Mounting		Rear connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2		2	
Number of vertical modules		24		26	
Mounting plates		LVS03500		LVS03500	
		<b>S1 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	LVS03711 [9]		LVS03710 [10]	
	downstream	LVS03806 [6]		LVS03806 [6]	
		<b>S2 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	LVS03711 [9]		LVS03710 [10]	
	downstream	-		-	
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>S1 device</b>		<b>S2 device</b>	
		MTZ2 08/16		MTZ2 20/32	
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Downstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
		<b>S1 device</b>			
Upstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
Downstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		LVS03671 [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.

Manual or remote-operated or automatic source-changeover  
MasterPact MTZ1 06/16, front connection S1 device identical to S2 device

Source-changeover

Mounting		Front connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2		2	
Number of vertical modules		24		30	
Mounting plates		LVS03484		LVS03483	
		<b>S1 device</b>			
		MTZ1 06/10		MTZ1 12/16	
Front plates [No. of vertical modules]	upstream	LVS03802 [2]		LVS03804 [4]	
	with cut-out	LVS03692 [7]		LVS03691 [8]	
	downstream	LVS03803 [3]		LVS03803 [3]	
		<b>S2 device</b>			
		MTZ1 06/10		MTZ1 12/16	
Front plates [No. of vertical modules]	upstream	LVS03803 [3]		LVS03803 [3]	
	with cut-out	LVS03692 [7]		LVS03691 [8]	
	downstream	LVS03802 [2]		LVS03804 [4]	
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		MTZ1 06/10		MTZ1 12/16	
		3P 4P		3P 4P	
		3P 4P		3P 4P	
		3P 4P		3P 4P	
<b>S1 device</b>		Front connections supplied with the device			
Upstream connection		Front connections supplied with the device			
Vertical connection adapters		33642 33643		33642 33643	
<b>S2 device</b>		Front connections supplied with the device			
Downstream connection		Front connections supplied with the device			
Vertical connection adapters		33642 33643		33642 33643	
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
<b>S1 device</b>		Front connections supplied with the device			
Upstream connection		Front connections supplied with the device			
Connection		must be made			
<b>S2 device</b>		Front connections supplied with the device			
Downstream connection		Front connections supplied with the device			
Connection		must be made			
Mounting		Outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		LVS03671 [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.			

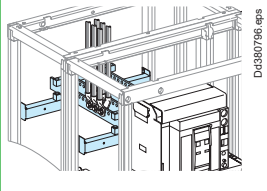
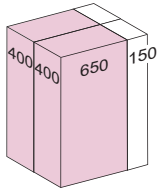


# Manual or remote-operated or automatic source-changeover

MasterPact MTZ1 06/16, rear connection S1 device identical to S2 device

Source-changeover

## 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		LVS03484	LVS03483
		S1 device	
		<b>MTZ1 06/16</b>	<b>MTZ1 06/16</b>
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	-
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]
		S2 device	
		<b>MTZ1 06/16</b>	<b>MTZ1 06/16</b>
Front plates [No. of vertical modules]	upstream	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03801 [1]	-

## Connection



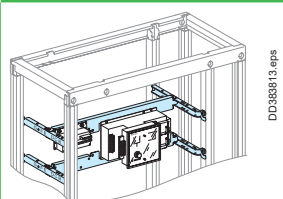
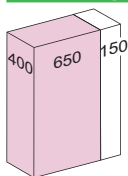
Devices		Fixed device	Withdrawable device
		<b>MTZ1 06/16</b>	<b>MTZ1 06/16</b>
		S1 device	
Upstream connection		Vertical rear connections supplied with the device	
Connection		must be made	
		S2 device	
Downstream connection		Vertical rear connections supplied with the device	
Connection		must be made	

## Distribution Linergy LGYE busbar



		Selection of busbars: Linergy LGYE > page C-72.	
		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	

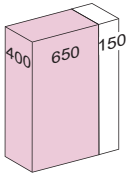
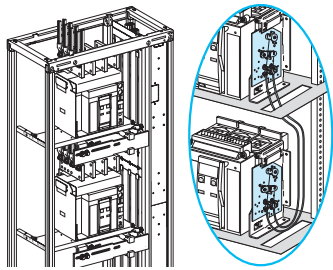


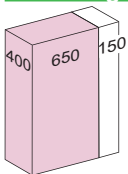
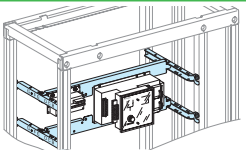
## Mounting Controller outside the device zone



Devices		UA or BA controller	
Number of devices per row		1	
Number of vertical modules		4	
Mounting plates		LVS03417	
Front plates	with cut-out	LVS03671 [4]	
[No. of vertical mod.]			
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.	

Manual or remote-operated or automatic source-changeover  
MasterPact MTZ1 06/16, front connection S1 device different to S2 device

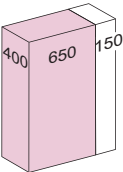
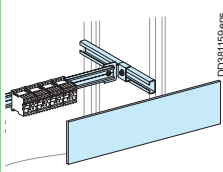
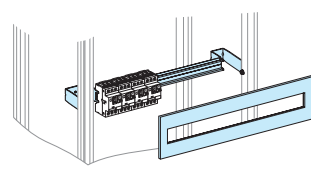
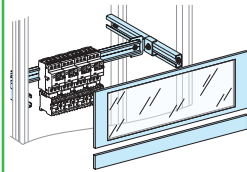
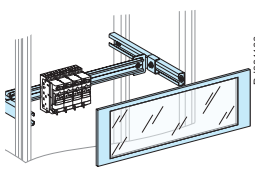
Source-changeover

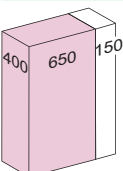
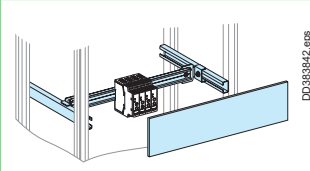
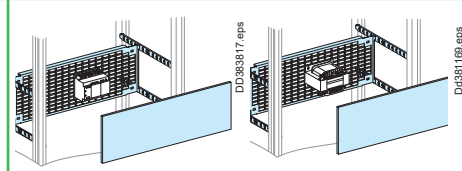
Mounting		Front connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2	2	2	2
Number of vertical modules		26	26	28	28
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
		<b>S1 device</b>			
		<b>MTZ1 12/16</b>	<b>MTZ1 06/10</b>	<b>MTZ1 12/16</b>	<b>MTZ1 06/10</b>
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
		<b>S2 device</b>			
		<b>MTZ1 06/10</b>	<b>MTZ1 12/16</b>	<b>MTZ1 06/10</b>	<b>MTZ1 12/16</b>
Front plates [No. of vertical modules]	upstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>MTZ1 06/10</b>	<b>MTZ1 12/16</b>	<b>MTZ1 06/10</b>	<b>MTZ1 12/16</b>
		3P   4P	3P   4P	3P   4P	3P   4P
<b>S1 device</b>		Upstream connection   Front connections supplied with the device			
Vertical connection adapters		33642	33643	33642	33643
<b>S2 device</b>		Downstream connection   Front connections supplied with the device			
Vertical connection adapters		33642	33643	33642	33643
Distribution		Linergy LGYE busbar			
		Selection of busbars: Linergy LGYE > page C-72.			
<b>S1 device</b>		Upstream connection   Front connections supplied with the device			
Connection		must be made			
<b>S2 device</b>		Downstream connection   Front connections supplied with the device			
Connection		must be made			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		with cut-out LVS03671 [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.			



Industrial control devices

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 <sup>(1)</sup>	
Useful length of rail (mm)		432	432			432	432		
Modular rail (adjustable)		LVS03402	LVS03401 <sup>(2)</sup>	LVS03402	LVS03402	LVS03402	LVS03402		
Front plates [No. of vertical mod.]	plain	LVS03803 [3]	-			-	-		
	transparent	-	-			LVS03342 [4]	-		
	with cut-out	-	LVS03203 [3]	LVS03203 [3]	LVS03205 [5]	-	LVS03205 [5] -		
	downstream	-	-			LVS03801 [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)		LVS03402	LVS03402	LVS03402	LVS03402	-	-
Slotted mounting plates		-	-	-	-	LVS03572	LVS03571
Front plate [No. of vertical mod.]	plain	LVS03804 [4]	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]	LVS03804 [4]
Characteristics		Width of devices (mm)					-
		22.5	45	45	180	180	

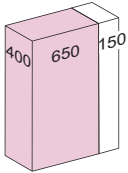
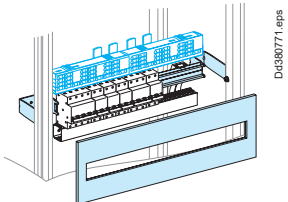
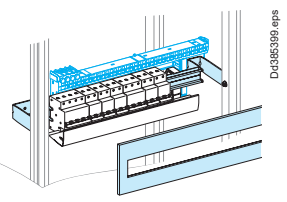
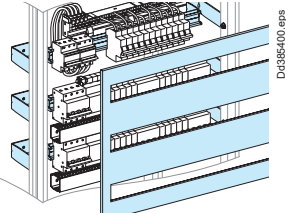
(1) Version without communication module, auxiliary contact and reversing module.

(2) Non-adjustable.

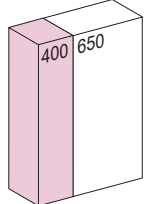
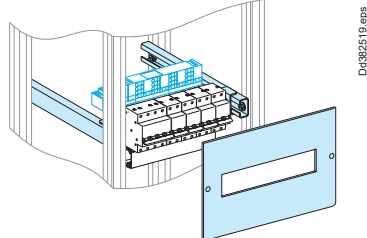
# Modular devices <sup>(1)</sup>

Acti 9 ≤ 63 A

## 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 <sup>(2)</sup>	3	8
Rail (48 modules of 9 mm)	LVS03401	LVS03401	3 x LVS03401
Modular front plates	LVS03204	LVS03203	LVS03223
Blanking strip	LVS03220	LVS03220	LVS03220
plate divisible	LVS03221	LVS03221	LVS03221

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	20
No. of vertical modules	4	3	3
Rail (20 modules of 9 mm)	LVS03404 (adjustable)	LVS03404 (adjustable)	
Modular front plates	LVS03214 [4]	LVS03213 [3]	
Blanking plate strip	LVS03220	LVS03220	
divisible	LVS03221	LVS03221	

### Connection Distribution block Linergy FM 160 to 200 A row

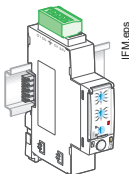
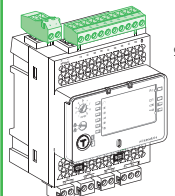
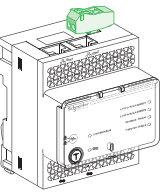
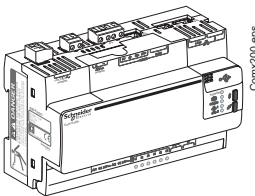
	
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Type of connected devices	All type
Comb busbars / distribution blocks	> page C-80

Linergy TR Terminal blocks: > page C-86.

### EnerlinX devices

	IFM	I/O module	IFE	ComX200	ComX510
--	-----	------------	-----	---------	---------

					
--	---	---	--	---	--

No. of vertical modules	4
Rail	LVS03401 / LVS03404
Modular front plates	LVS03204 / LVS03214
Characteristics	Installation by clip on a modular rail.

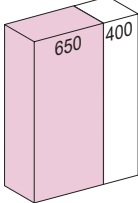
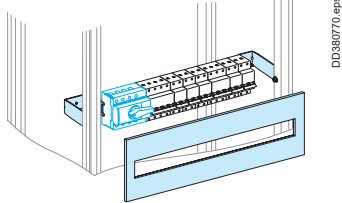
(1) Control devices should be connected to control circuit up to 415 V.

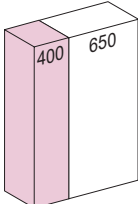
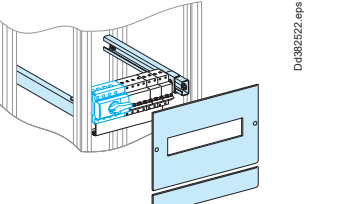
(2) For a modular row with a 160 A (half row) and 200 A Linergy FM distribution block positioned directly below a non-modular mounting-plate (ComPacT, etc.), or at the top of a switchboard, add one additional module (i.e. 4+1) and a plain upstream front plate (LVS03801).


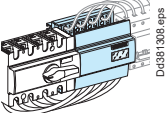
# Modular devices <sup>(1)</sup>

80/160 A switchboard incomer

## Circuit breakers

Mounting	Switch-disconnectors	
		
<b>Devices</b>	<b>ComPacT INS40/160</b>	<b>ComPacT INS-INV100/160 with long terminal shields</b>
No. of vertical modules	4	5
Rail (48 modules of 9 mm)	LVS03401	LVS03401
Modular front plates	LVS03204	LVS03205
Blanking plate strip	LVS03220	LVS03220
divisible	LVS03221	LVS03221

Mounting	Switch-disconnectors	
		
<b>Devices</b>	<b>INS-INV40/160</b>	<b>INS-INV100/160 with long terminal shields</b>
No. of vertical modules	4	5
Rail (20 modules of 9 mm)	LVS03404 (adjustable)	LVS03404 (adjustable)
Front plates modular	LVS03214 [4]	LVS03214 [4]
[No. of vertical modules] downstream	-	LVS03811 [1]
Blanking plate strip	LVS03220	LVS03220
divisible	LVS03221	LVS03221

Connection	Linergy DX 4P, 160 A distribution block
	
<b>Type of connected devices</b>	<b>All type</b>
Distribution block / busbars	> page C-78
Connection	> page C-78

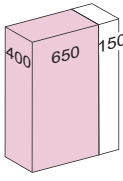
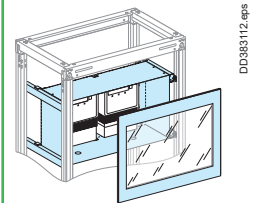
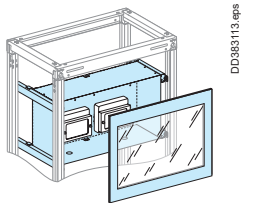
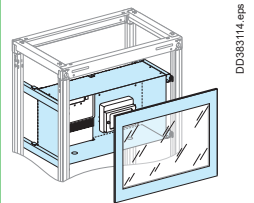
(1) Control devices should be connected to control circuit up to 415 V.

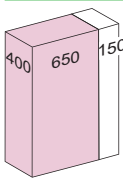
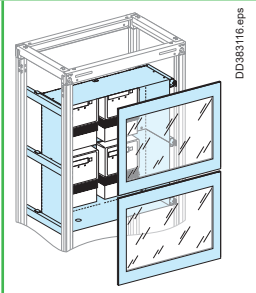
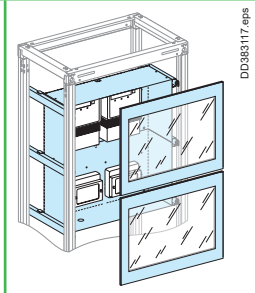
# Metering <sup>(1)</sup>

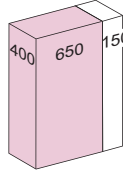
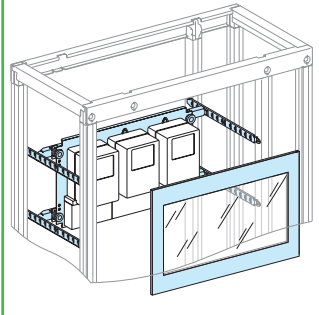
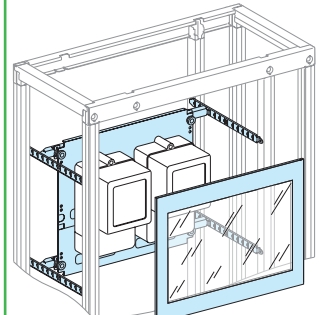
Single-phase and 3-phase kilowatt-hour meters

Class 1 & 2

Others

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		LVS03508	LVS03508	LVS03508
Front plates	transparent	LVS03343 [6]	LVS03343 [6]	LVS03343 [6]
[No. of vertical mod.]	or plain	LVS03806 [6]	LVS03806 [6]	LVS03806 [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 LVS03508	2 x LVS03508
Front plates	transparent	2 x LVS03343 [6]	2 x LVS03343 [6]
[No. of vertical mod.]	or plain	2 x LVS03806 [6]	2 x LVS03806 [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		–	LVS03152
Front plates	transparent	LVS03343 [6]	LVS03344 [9]
[No. of vertical mod.]	or plain	LVS03806 [6]	–
Insulating plate		–	–
Adapter		LVS03595	LVS03595
Accessories		M5 spacers for mounting plate > page C-63	

(1) Control devices should be connected to control circuit up to 415 V.

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

# Metering and human-switchboard interface

## PowerLogic™ Meters

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.

#### Acti9 iEM2000 & iEM3000 series



The Acti9 iEM2000 & 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 Acti9 iEM2000 & 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.

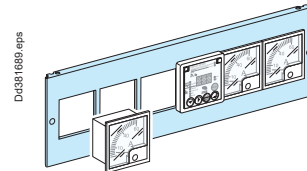
#### Possible installation

Cat. number	LVS03904	LVS03928	LVS03910	LVS03911	LVS03913	LVS03914
Front plate frame support (LVS08566)	■	■	■	■	■	■
L300/L400 with cut-out (LVS08593, LVS08594)	■	■	■	■	■	—

**Note:** Device mounting on door: earthing braid (cat. no. LVS08910) or earthing wire (cat. no. LVS08911) mandatory.

### ○ Installation in a switchboard

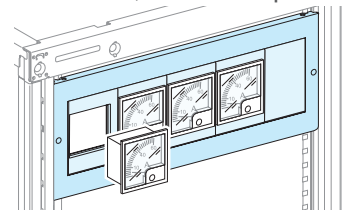
On a metal front plate with cut-outs, H = 150 mm (3 modules)



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

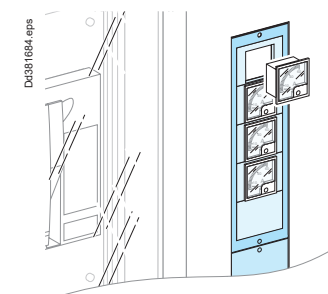
①

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



②


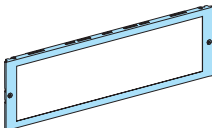





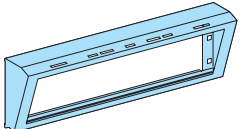





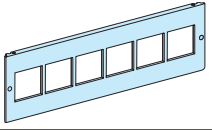


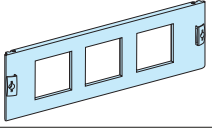


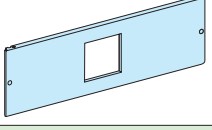





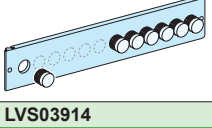



- > On a door with cut-outs in a 300 or 400 mm wide cubicle
- > On a inclined visor



The degree of protection for installed devices is IP30.

#### Notes:

- 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.
- With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. LVS08585). The earthing braid must be connected to the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else).
- With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else) must be connected to the cubicle frame, using an earthing braid (cat no. LVS08910 or LVS08911). (standard NF / EN 61439-1 2011 edition).

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
<b>W650 mounting on an interface with plastic mounting plates</b>				
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	<b>LVS03904</b>		<b>LVS03902</b>	<b>LVS03900</b>
2 x  For PM200, 200P, PM5 & PM8 series meters		<b>LVS03903</b>	<b>LVS03901</b>	
<b>W650 mounting on an inclined visor by 30° with plastic mounting plates</b>				
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	<b>LVS03928</b> <sup>(1)</sup>		<b>LVS03902</b>	<b>LVS03900</b>
2 x  For PM200, 200P, PM5 & PM8 series meters		<b>LVS03903</b>	<b>LVS03901</b>	
<b>W650 direct mounting on a metal front plate with cut-outs</b>				
<b>72 x 72 device</b>				
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
	<b>LVS03910</b>		-	<b>LVS03907</b>
<b>96 x 96 device</b>				
3 x  Power Meter and others devices 96 x 96	 DD119465.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
	<b>LVS03911</b>		-	<b>LVS03908</b>
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
	<b>LVS03913</b>		-	<b>LVS03908</b>
<b>144 x 144 device + 72 x 72 devices</b>				
1 x  144 x 144 device + 4 x  devices 72 x 72		4	Direct mounting	 DD385469.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
			-	<b>LVS03907</b>
<b>W650 pushbuttons and lamps Ø 22 mm</b>				
12 x  Ø 22 mm	 DD385464.eps	2	Direct mounting	
	<b>LVS03914</b>		-	-
<b>W400 front plate</b>				
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
	<b>LVS03923</b>		-	<b>LVS03908</b>

(1) The visor (cat. no. **LVS03928**) can be installed on a plain door with cut-out.  
 (2) For PM200, 200P, PM5 & PM8 series meters, use 2 no. blank off sheets between each meter.

# Metering and human-switchboard interface

PowerLogic™ Meters

Vigilohm, Vigirex

Others

Mounting		Powerlogic system				
<b>Devices</b>		<b>FDM121, PM5000 &amp; PM8000 series <sup>(2)</sup></b>	<b>PM3000 series, IEM2000 &amp; IEM3000 series</b>	<b>FDM128 <sup>(1)</sup></b>	<b>PM5RD, PM89RD96, PM5563RD <sup>(3)</sup></b>	
Number of vertical mod.		1 device	3 devices	4	4	
DIN rail		3	3	3 or 4	4	
Front plates [No. of vert. modules]		transparent	–	LVS03402	–	
		plain	–	LVS03342 [4]	–	
		with cut-out	LVS03913 [3]	LVS03911 [3]	LVS03203 [3]	
Front plate		With cut-out for devices 96 x 96			Hole ø 22 mm to be stamped	Hole ø 30 mm to be stamped

Mounting		Powerlogic system			
<b>Devices</b>		<b>FDM121, PM5000 series, PM8000 series <sup>(2)</sup></b>	<b>FDM128 <sup>(1)</sup></b>	<b>PM5RD, PM89RD96, PM5563RD <sup>(3)</sup></b>	
Number of vertical mod.		3	4	4	
DIN rail		–	–	LVS03404	
Front plates [No. of vert. modules]		with cut-out	–	–	
		plain	LVS03923 [3]	LVS03814 [4]	
Front plate		With cut-out for devices 96 x 96		Hole ø 22 mm to be stamped	Hole ø 30 mm to be stamped

Mounting		Vigilohm		
<b>Devices</b>		<b>IM400 with 3 XD301 or with 1 or 2 IFL12</b>	<b>IM10, IM10H, IM20, IM20H HV-IM20, HV-IM400, IM9, IM9-OL</b>	<b>IM10 / IM10H IM20 / IM20H</b>
Number of vertical mod.		6	3	3
Modular rail		–	LVS03401	–
Mounting plates		LVS03930	–	–
Front plates with cut-outs		LVS03932	LVS03203	LVS03911
Characteristics		Installation in the device compartment		

Mounting		Vigirex		Acti 9	
<b>Devices</b>		<b>RH10/RH21/RH99/RH197M relays</b>	<b>Lamps, pushbuttons</b>	<b>Ammeter, voltmeter</b>	
Number of vertical mod.		3	2	3	
Modular rail		LVS03401	LVS03401	LVS03401	
Front plates with cut-outs		LVS03203	LVS03202	LVS03203	
Blanking strip		LVS03220	LVS03220	LVS03220	
plate divisible		LVS03221	LVS03221	LVS03221	
Characteristics		Installation in the device compartment			

(1) For 72 x 72 mm cases > page C-36.

(2) Only for flush-mounted versions of PM5000 series and PM8000 series.

(3) Only for remote-display versions of PM5000 series and PM8000 series.



# Cubicles

## Contents

## Enclosures

<b>Cover panels</b>	<b>C-42</b>
<b>Cubicles</b>	
Frameworks	C-45

## Dimensions

<b>Cubicles</b>	<b>C-47</b>
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## Enclosures

<b>Cubicles</b>	
IP31	C-52
IP55	C-55
Plinth	C-57
Cubicle handling and Lifting reinforcement kit	C-58
<b>Installation accessories</b>	<b>C-59</b>
<b>Front plate accessories</b>	<b>C-61</b>

## Others

<b>Reserve space</b>	<b>C-62</b>
<b>Fixing accessories</b>	<b>C-63</b>
<b>Universal adapter</b>	
Mounting on a plain backplate	C-64
<b>Others devices</b>	
Mounting on a slotted plate - Mounting on a modular rail	C-65
<b>Cable running</b>	<b>C-66</b>
<b>Connection accessories</b>	
Cable-tie supports, lateral and longitudinal cross-members	C-67
<b>Door handles and locks</b>	<b>C-68</b>
<b>Ventilation accessories</b>	
Heat	C-69

# Cover panels

## Enclosures

### 600 mm deep switchboard

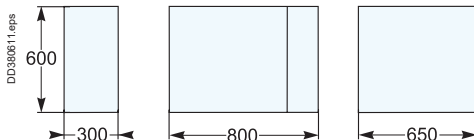
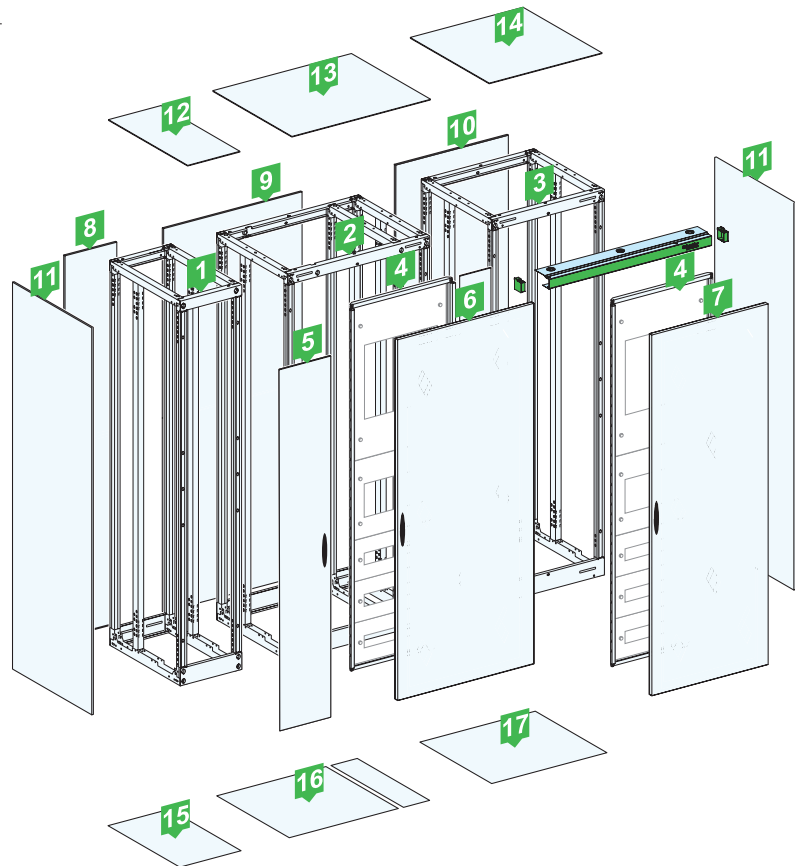
For switchboards with front connections.

- Front panels
  - One of the following must be installed in front of the hinged front plate frame support:
    - A plain door
    - A transparent door
- Rear panels = screw-on panels
- Side panels = screw-on panels
- Plain roof
- Gland plates (plain or in two parts)

Parts list:

- 1 LVS08603: Framework, W = 300, D = 600, H = 2000
- 2 LVS08607: Framework, W = 800 <sup>(1)</sup>, D = 600, H = 2000
- 3 LVS08606: Framework, W = 650, D = 600, H = 2000
- 4 LVS08566: Front plate frame support, W = 650
- 5 LVS08523: Plain door, W = 300
- 6 LVS08528: Plain door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 LVS08526: Plain door, W = 650
- 8 LVS08743: Rear panel, W = 300 (screw-on panel)
- 9 LVS08748: Rear panel, W = 800 (screw-on panel)
- 10 LVS08746: Rear panel, W = 650 (screw-on panel)
- 11 LVS08765: Set of two side panels, D = 600 (screw-on panels)
- 12 LVS08653: Plain roof, W = 300, D = 600 (screw-on panel)
- 13 LVS08658: Plain roof, W = 800, D = 600 (screw-on panel)
- 14 LVS08656: Plain roof, W = 650, D = 600 (screw-on panel)
- 15 LVS08683: Plain gland plate, W = 300, D = 600
- 16 LVS08687: Plain gland plate, W = 800, D = 600
- 17 LVS08686: Plain gland plate, W = 650, D = 600.

DB447617.eps



(1) (650+150) or (150+650).

# Cover panels

## Enclosures

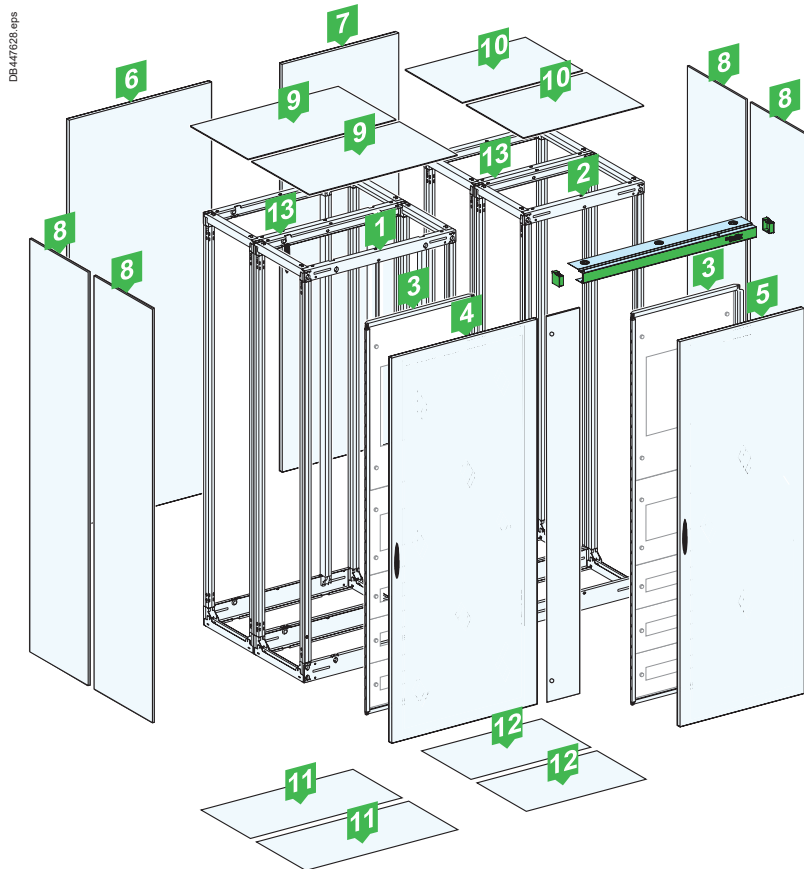
### 800 mm deep switchboard

Made up of two cubicles back-to-back.  
Rear connections are possible.

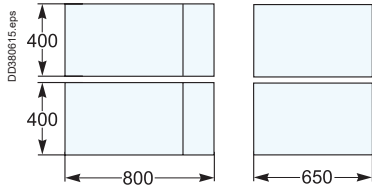
- Front panels
  - One of the following must be installed in front of the hinged front plate frame support:
    - a plain door
    - a transparent door
- Rear panels = screw-on panels
- Side panels = screw-on panels
- Plain roof
- Gland plates (plain or in two parts)

#### Parts list:

- 1** LVS08407 x 2: 2 frameworks, W = 800 <sup>(1)</sup>, D = 400, H = 2000
- 2** LVS08406 x 2: 2 frameworks, W = 650, D = 400, H = 2000
- 3** LVS08566: Front plate frame support, W = 650
- 4** LVS08528: Plain door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 5** LVS08526: Plain door, W = 650
- 6** LVS08748: Rear panel, W = 800 (screw-on panel)
- 7** LVS08746: Rear panel, W = 650 (screw-on panel)
- 8** LVS08755 x 2: 2 sets of two side panels D = 400 (screw on panels)
- 9** LVS08458 x 2: 2 plain roofs, W = 800, D = 400 (screw on panels)
- 10** LVS08456 x 2: 2 plain roofs, W = 650, D = 400 (screw on panels)
- 11** LVS08487 x 2: 2 plain gland plates, W = 800, D = 400
- 12** LVS08486 x 2: 2 plain gland plates, W = 650, D = 400
- 13** LVS08719 x 2: Double depth combination kit



(1) (650+150) or (150+650).



# Cover panels

## Enclosures

### 1000 mm deep switchboard

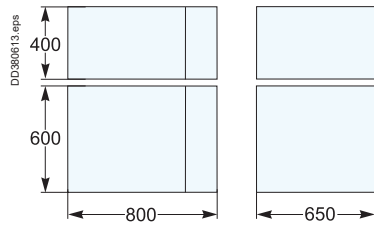
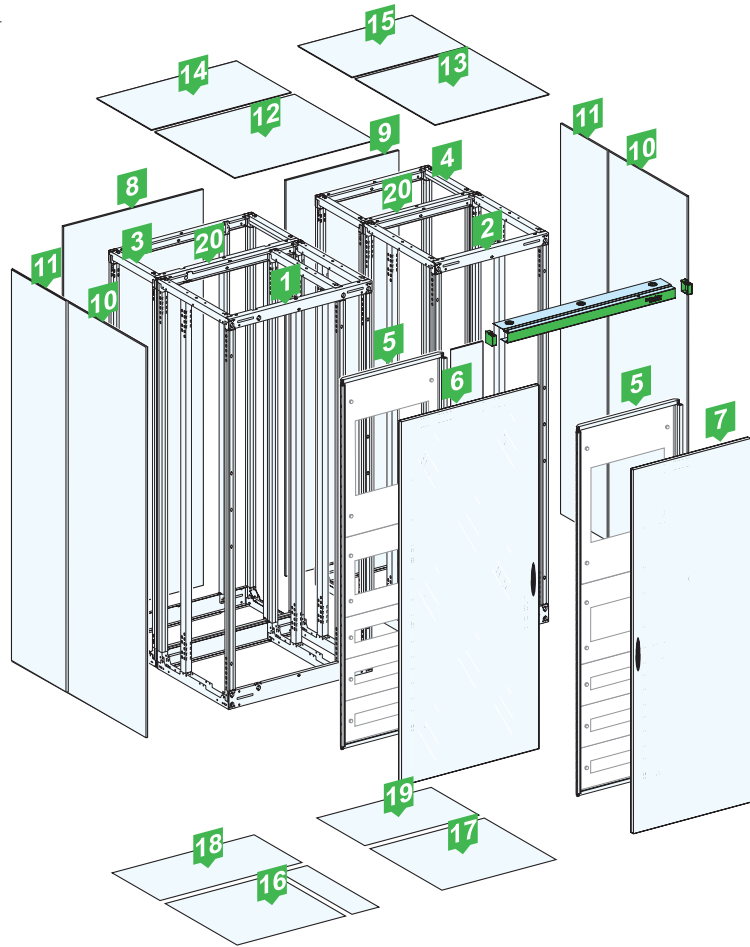
Made up of two cubicles back-to-back.  
Rear connections are possible.

- Front panels
  - One of the following must be installed in front of the hinged front plate frame support:
    - a plain door
    - a transparent door
- Rear panels = screw-on panels
- Side panels = screw-on panels
- Plain roof
- Gland plates (plain or in two parts)

Parts list:

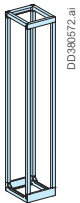
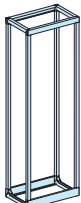
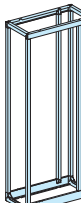
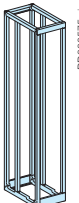
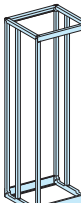
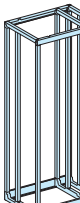

- 1 LVS08607: Framework, W = 800, D = 600, H = 2000
- 2 LVS08606: Framework, W = 650, D = 600, H = 2000
- 3 LVS08407: Framework, W = 800, D = 400, H = 2000
- 4 LVS08406: Framework, W = 650, D = 400, H = 2000
- 5 LVS08566: Front plate frame support, W = 650
- 6 LVS08528: Plain door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 LVS08526: Plain door, W = 650
- 8 LVS08748: Rear panel, W = 800 (screw-on panel)
- 9 LVS08746: Rear panel, W = 650 (screw-on panel)
- 10 LVS08765: Set of two side panels, D = 600 (screw on panels)
- 11 LVS08755: Set of two side panels, D = 400 (screw on panels)
- 12 LVS08658: Plain roof, W = 800, D = 600 (screw on panel)
- 13 LVS08656: Plain roof, W = 650, D = 600 (screw on panel)
- 14 LVS08458: Plain roof, W = 800, D = 400 (screw on panel)
- 15 LVS08456: Plain roof, W = 650, D = 400 (screw on panel)
- 16 LVS08687: Plain gland plate, W = 800, D = 600
- 17 LVS08686: Plain gland plate, W = 650, D = 600
- 18 LVS08487: Plain gland plate, W = 800, D = 400
- 19 LVS08486: Plain gland plate, W = 650, D = 400
- 20 LVS08719 x 2: Double depth combination kit

DB-447629.eps

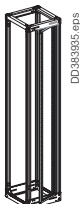



Cubicles Frameworks

Enclosures

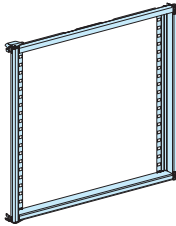
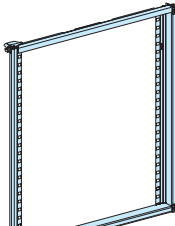
Mounting	Frameworks								
									
Width (mm)	300	400	650	800 (650 + 150)	300	400	650	800 (650 + 150)	
	Depth 400 mm				Depth 600 mm				
Cat. no.	LVS08403	LVS08404	LVS08406	LVS08407	LVS08603	LVS08604	LVS08606	LVS08607	
Composition	2 frames							3 frames	
	-			+ 2 additional uprights	Equipped with intermediate uprights for the mounting plates.				
	<ul style="list-style-type: none"> <li>4 cross-pieces</li> <li>Mounting hardware</li> <li>Framework combinations</li> </ul>								
Characteristics	<ul style="list-style-type: none"> <li>Cubicles can be combined side-by-side and back-to-back.</li> <li>Can be equipped with screw cover panels.</li> </ul> <p><b>Note:</b> For the 800 mm width, the busbar compartment can be on the left or right.</p>								



Mounting	Hinged front plate frame support	
		
Width (mm)	400	650
Cat. no.	LVS08564	LVS08566 (1)
Characteristics	<ul style="list-style-type: none"> <li>Reversible for left or right-hand opening.</li> <li>Secured at two points.</li> </ul> <p><b>Note:</b> Can be mounted on 650 mm and 800 mm (650 + 150) wide cubicles.</p> <p>(1) For drawout MasterPacT MTZ2, hinged front plate frame support must open towards left-hand side.</p>	

Partial hinged cover-frame supports

> page C-14

Mounting	Partial hinged cover-frame supports	
		
Width (mm)	650	
	10 modules	12 modules
Cat. no.	LVS08560 (1)	LVS08562 (1)
Characteristics	<ul style="list-style-type: none"> <li>For drawout MasterPacT MTZ2.</li> </ul> <p>(1) Hinged front plate frame support must open towards left-hand side.</p>	<ul style="list-style-type: none"> <li>For drawout MasterPacT MTZ2</li> </ul> <p>(1) Hinged front plate frame support is left-hand opening.</p>

Cubicles  
Frameworks

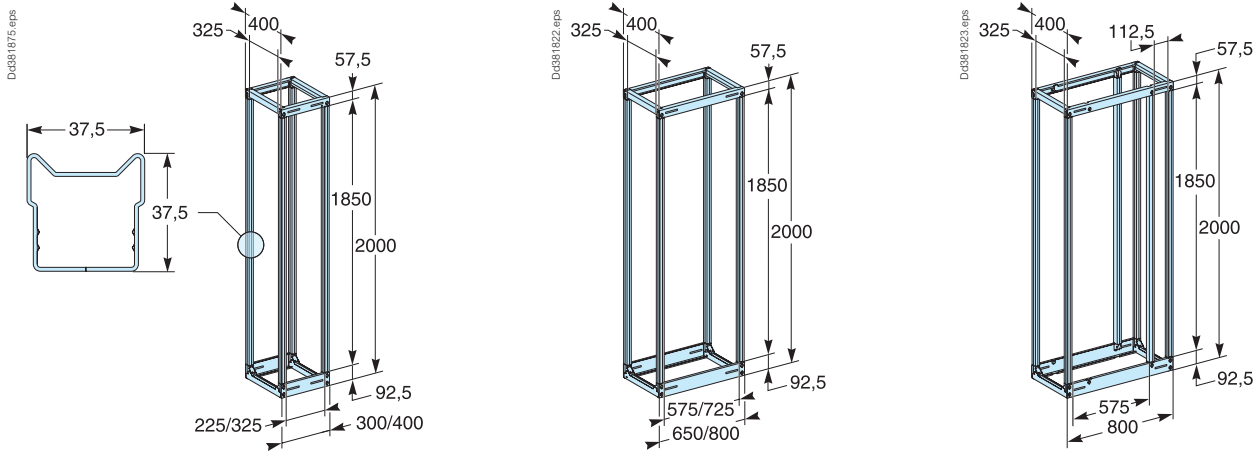
Enclosures

Framework combinations		
Type	Side-by-side	Back-to-back
	IP55 sealing kit	Double depth combination kit
Cat. no.	LVS08717	LVS08719
Characteristics	<ul style="list-style-type: none"> <li>The 650 and 800 mm wide frameworks are supplied with a combination kit comprising six M6 bolts.</li> <li>To maintain the IP55 degree of protection, an optional gasket must be installed between the combined cubicles.</li> </ul>	<p>The kit is made up of:</p> <ul style="list-style-type: none"> <li>A set of hardware for the mechanical connections between the cross-pieces.</li> <li>Six assembly plates to connect the uprights.</li> <li>The IP55 sealing kit.</li> </ul>

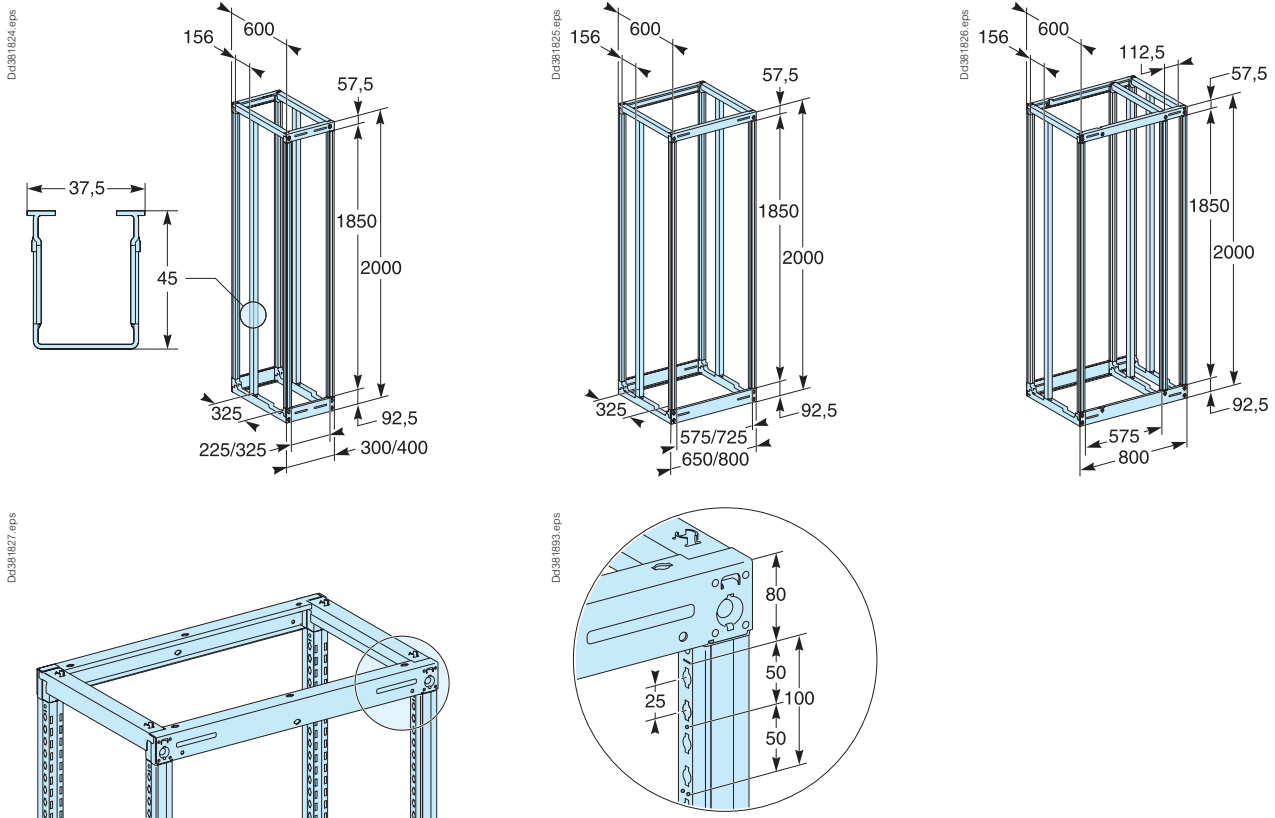
Accessories		
Type	Commodities	
	Fixing screws and nuts	
Cat. no.	LVS08921	LVS08718
Characteristics	Set of 20 screws + wing nuts for framework	Set of 10 screws + combination accessories

### Dimensions

#### Frameworks, D = 400 mm



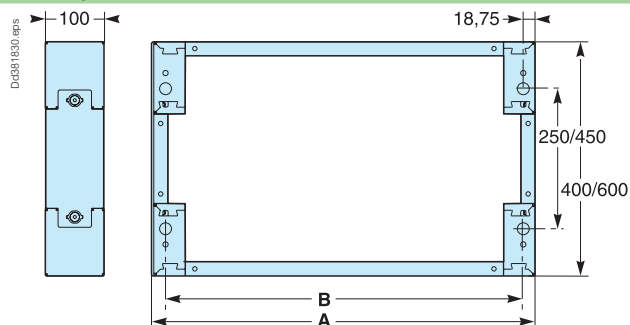
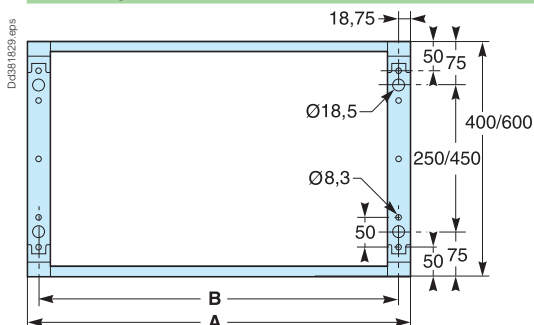
#### Frameworks, D = 600 mm



#### Fixing to floor

##### Without plinth

##### With plinth



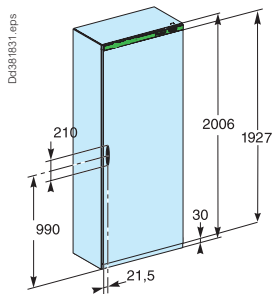
A	B
300	262.5
400	362.5
650	612.5
800	762.5

# Cubicles

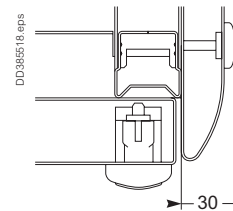
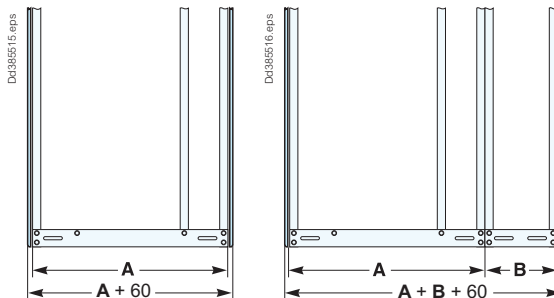
## Dimensions

### Cubicle with cover panels

#### Height

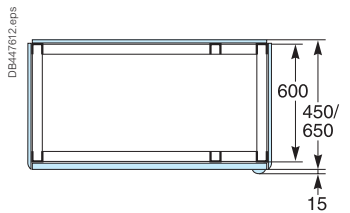


#### Width

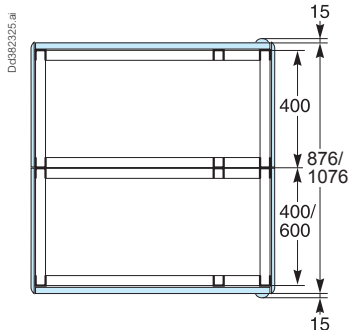
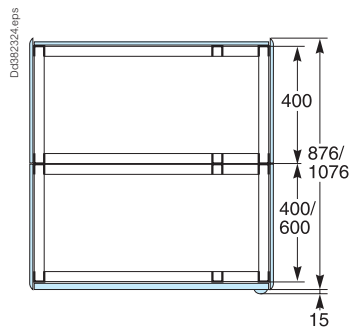
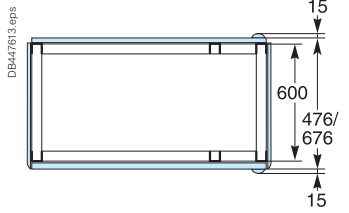


#### Depth

##### Door in front and panel in rear

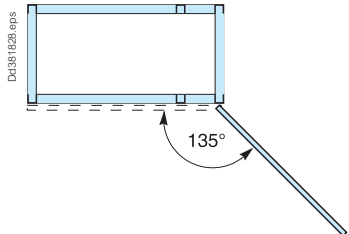
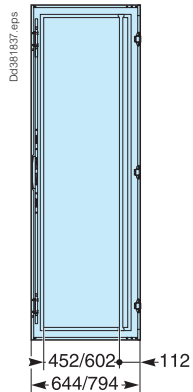
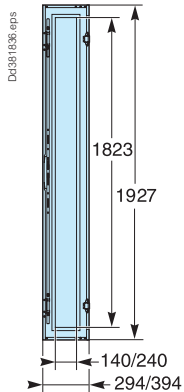


##### Doors front and rear

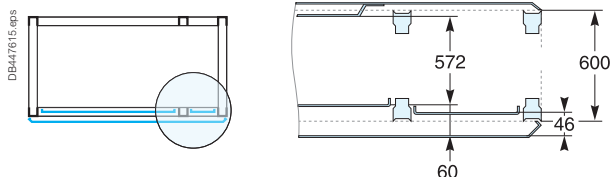


#### Door

##### IP55 door

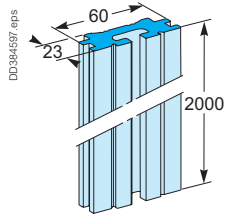


##### Available space behind door

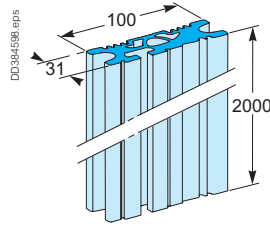


Linery LGYE busbars

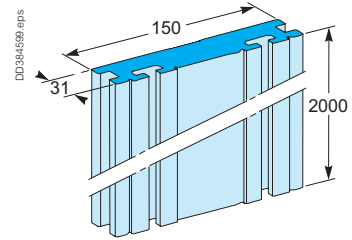
630 A - 1600 A



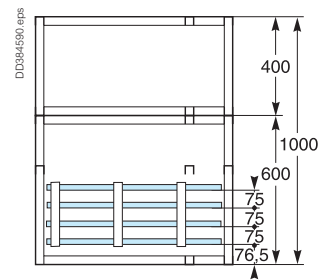
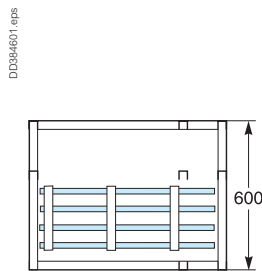
2000 A - 2500 A



3200 A

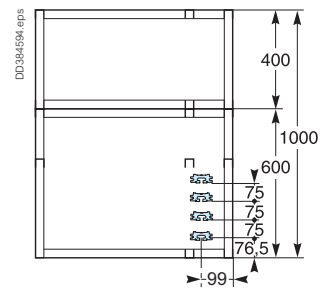
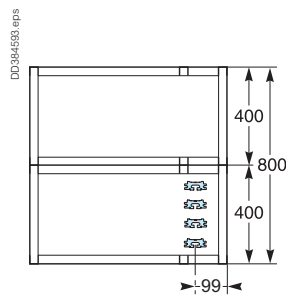
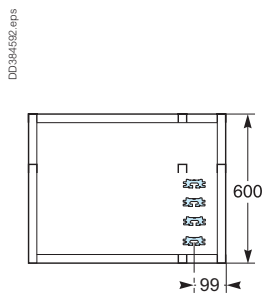


Layout of horizontal Linery LGYE busbars

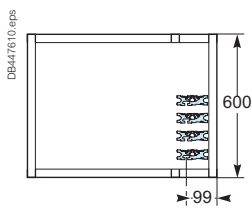


Layout of vertical Linery LGYE busbars

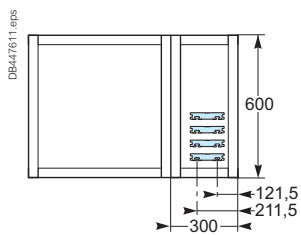
630 A - 1600 A



2000 A - 2500 A



3200 A

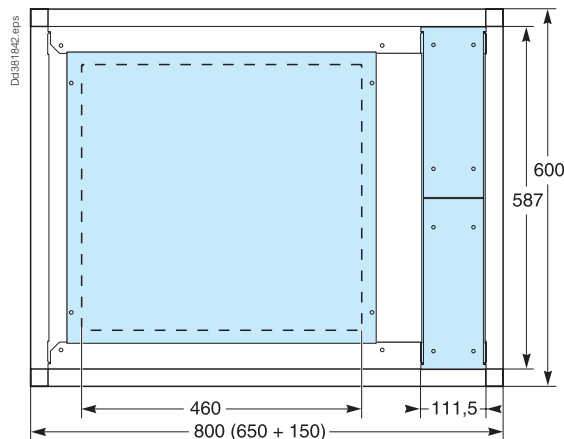
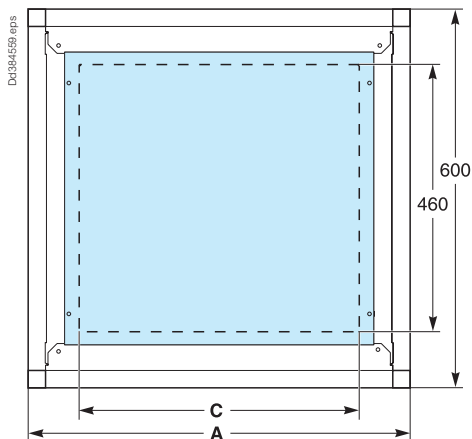
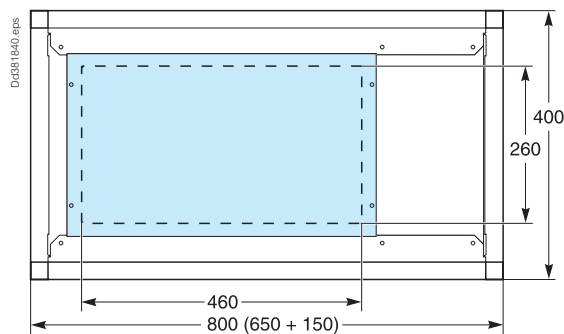
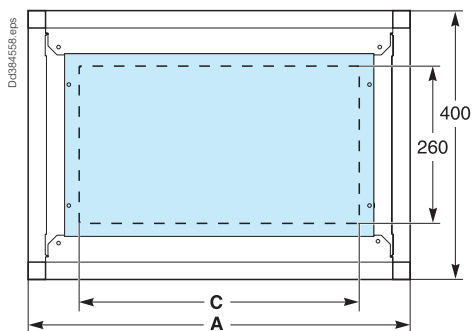
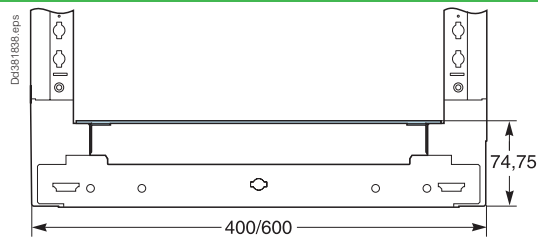


# Cubicles

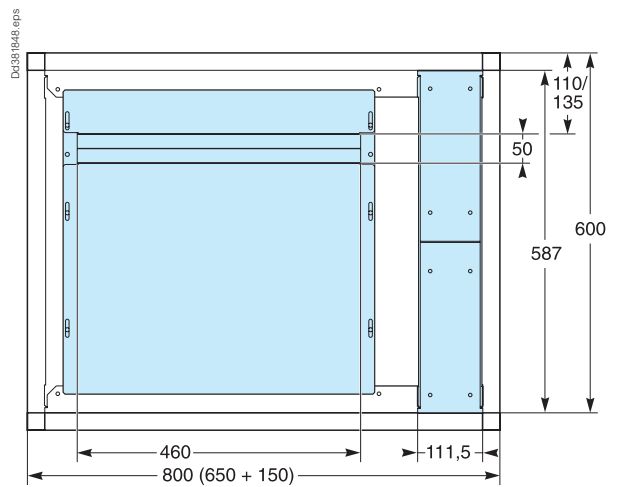
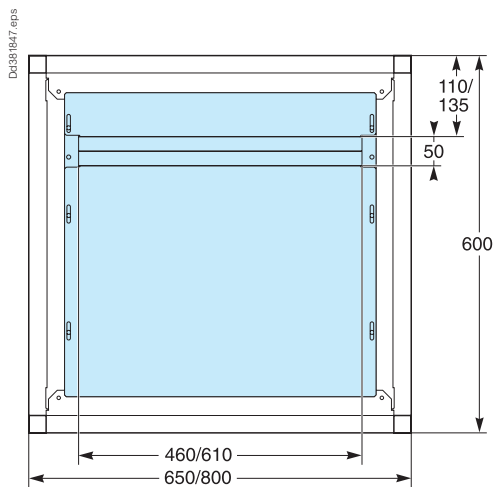
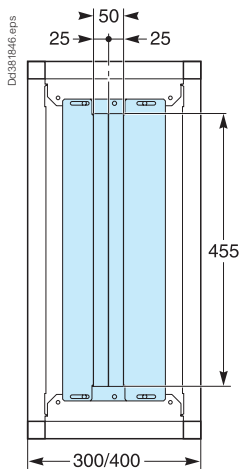
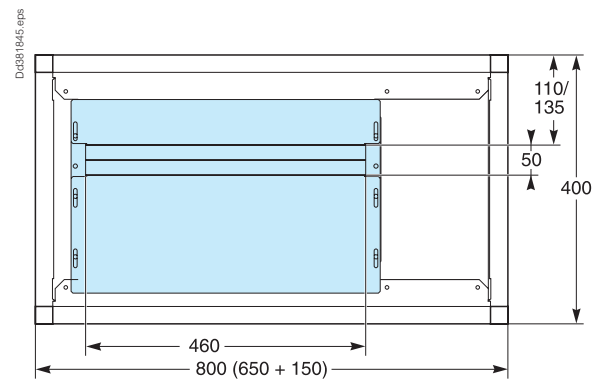
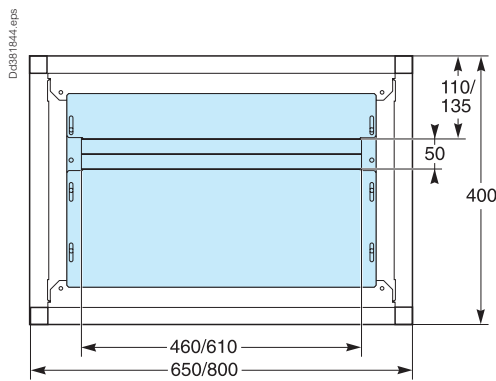
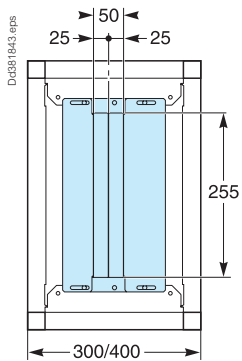
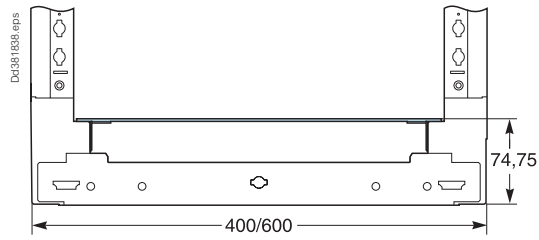
## Dimensions

### Plain gland plates

A	C
300	110
400	210
650	460
800	610

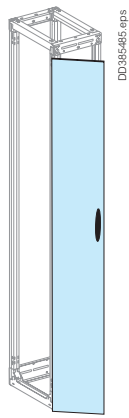
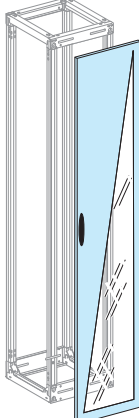
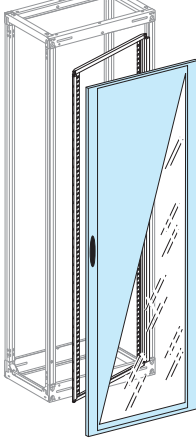
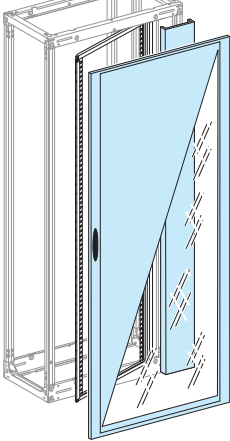


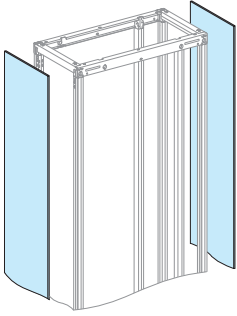
Two-part gland plates



Cubicles  
IP31

Enclosures

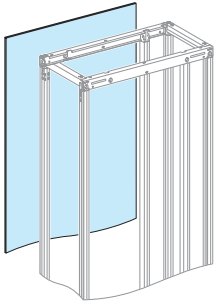
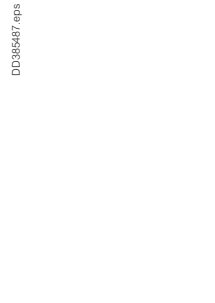
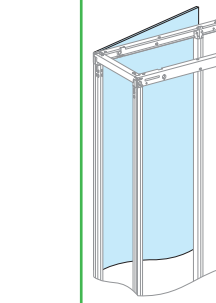
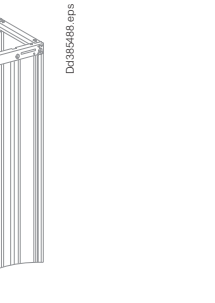
Mounting	Front doors			
	 DD395485.eps	 DD119390.ai	 DD119388.ai	 DD119389.ai
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Plain door	<b>LVS08523</b>	<b>LVS08524</b>	<b>LVS01224</b>	<b>LVS01225</b>
Glass door	–	<b>LVS08544</b>	<b>LVS08546</b>	<b>LVS08548</b>
Reinforced door striker	–	<b>LVS01114 (1)</b>		
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket, IP55.</li> <li>■ Reversible for left or right-hand opening.</li> <li>■ Equipped with a handle and keylock (key 405).</li> </ul> For other possibilities > page C-68. For IP55 rated configurations, front or rear mounted doors, it is necessary to follow the temperature derating tables, to ensure a convenient installation of devices. <b>Note:</b> 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. (1) Refer to instruction sheet JPT89930 in se.com for assembly.			

Mounting	Side panels	
	 DB447636.eps	
<b>Dimensions (mm)</b>	<b>D = 400</b>	<b>D = 600</b>
Side panels	<b>LVS08755</b>	<b>LVS08765</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket.</li> <li>■ Supplied with mounting hardware.</li> </ul>	

# Cubicles

## IP31

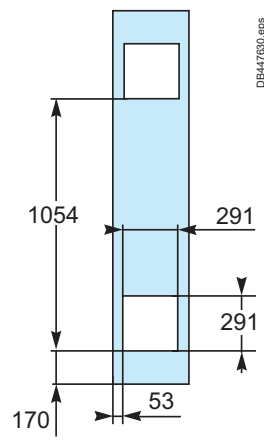
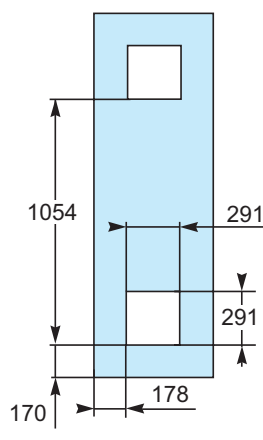
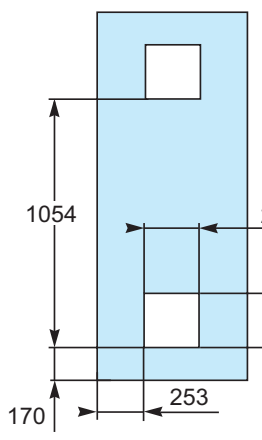
### Enclosures

Mounting		Rear panels			
					
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>	
Rear panel	<b>LVS08743</b>	<b>LVS08744</b>	<b>LVS08746</b>	<b>LVS08748</b>	
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket.</li> <li>■ Supplied with mounting hardware.</li> <li>■ One-piece, reinforced panel designed to ensure the degree of protection.</li> </ul>				



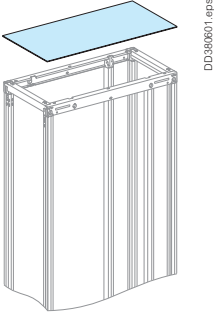
Ventilation accessories	
	
Catalog numbers	<b>NSYAG291LPF</b> <b>NSYCAF291M</b>

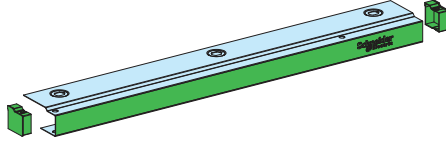
**Note:** Ventilation grid to be used only for IP31 enclosures.

Cut-outs in rear panels			
			
<b>Dimensions (mm)</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>

Cubicles  
IP31

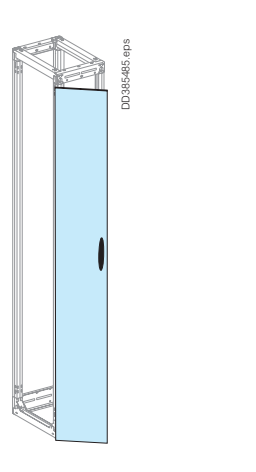
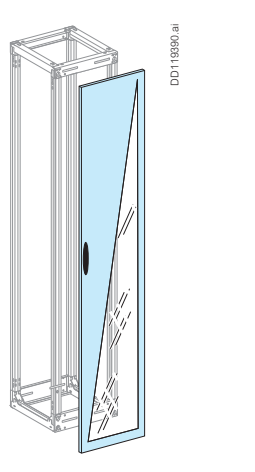
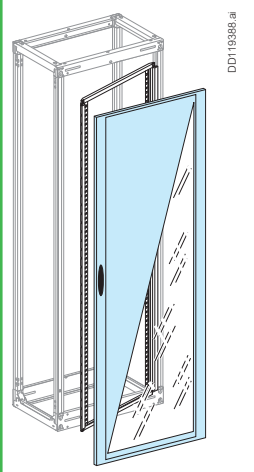
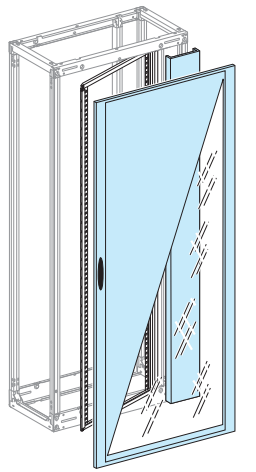
Enclosures

Mounting	Roof			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain roof D = 400 mm	<b>LVS08453</b>	<b>LVS08454</b>	<b>LVS08456</b>	<b>LVS08458</b>
Plain roof D = 600 mm	<b>LVS08653</b>	<b>LVS08654</b>	<b>LVS08656</b>	<b>LVS08658</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket.</li> <li>■ Supplied with mounting hardware.</li> <li>■ With markings for clear identification of cable-running zones, if necessary.</li> </ul>			

	Green cover to fix on top of each frame			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
	<b>LVS08640</b>	<b>LVS08641</b>	<b>LVS08642</b>	<b>LVS08643</b>
Characteristics	To cover the top of each section which does not have Voltage Presence Indicator.			

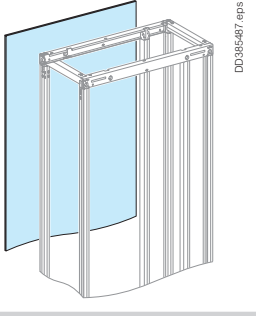

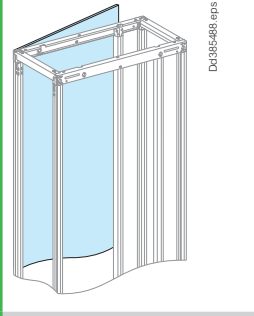

Cubicles  
IP55

Enclosures

Mounting	Front doors			
				
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Plain door	<b>LVS08523</b>	<b>LVS08524</b>	<b>LVS08526</b>	<b>LVS08528</b>
Glass door	–	<b>LVS08544</b>	<b>LVS08546</b>	<b>LVS08548</b>
Reinforced door striker	–	<b>LVS01114 (1)</b>		
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket, IP55.</li> <li>■ Reversible for left or right-hand opening.</li> <li>■ Equipped with a handle and keylock (key 405).</li> </ul> For other possibilities > page C-68. For IP55 rated configurations, front or rear mounted doors, it is necessary to follow the temperature derating tables, to ensure a convenient installation of devices. <b>Note:</b> 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. (1) Refer to instruction sheet JPT89930 in se.com for assembly.			

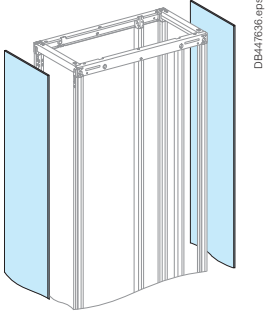
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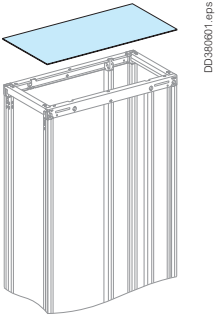


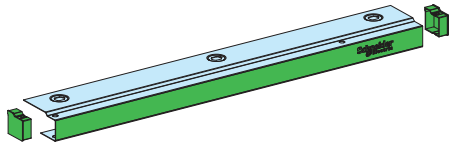
Mounting	Rear panels			
				
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Rear panel	<b>LVS08743</b>	<b>LVS08744</b>	<b>LVS08746</b>	<b>LVS08748</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket.</li> <li>■ Supplied with mounting hardware.</li> <li>■ One-piece, reinforced panel designed to ensure the degree of protection.</li> </ul>			

Cubicles  
IP55

Enclosures

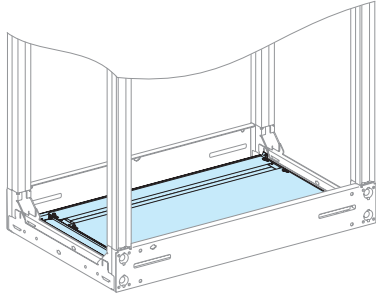
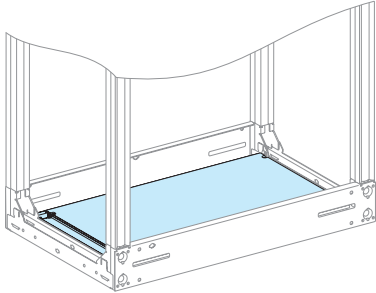
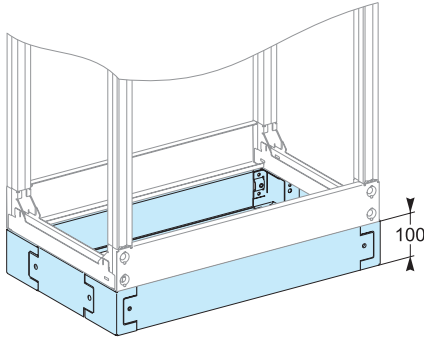
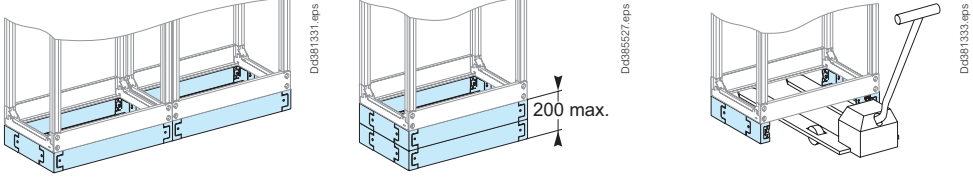
Mounting		Side panels	
			
<b>Dimensions (mm)</b>	<b>D = 400</b>	<b>D = 600</b>	
Side panels	<b>LVS08755</b>	<b>LVS08765</b>	
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket.</li> <li>■ Supplied with mounting hardware.</li> </ul>		

Mounting		Roof			
					
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>	
Plain roof D = 400 mm	<b>LVS08453</b>	<b>LVS08454</b>	<b>LVS08456</b>	<b>LVS08458</b>	
Plain roof D = 600 mm	<b>LVS08653</b>	<b>LVS08654</b>	<b>LVS08656</b>	<b>LVS08658</b>	
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket.</li> <li>■ Supplied with mounting hardware.</li> <li>■ With markings for clear identification of cable-running zones, if necessary.</li> </ul>				

		Green cover to fix on top of each frame			
					
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>	
	<b>LVS08640</b>	<b>LVS08641</b>	<b>LVS08642</b>	<b>LVS08643</b>	
Characteristics	To cover the top of each section which does not have Voltage Presence Indicator.				

Cubicles  
Plinth

Enclosures

Mounting	Two-part gland plates		IP55, gland plates			
						
<b>Degree of protection</b>	IP30/IP31		IP55			
<b>Dimensions (in mm)</b>	<b>D400</b>	<b>D600</b>	<b>D400</b>	<b>D600</b>		
W = 300 mm	LVS08493	LVS08693	LVS08483	LVS08683		
W = 400 mm	LVS08494	LVS08694	LVS08484	LVS08684		
W = 650 mm	LVS08496	LVS08696	LVS08486	LVS08686		
W = 800 mm (650 + 150)	LVS08497	LVS08697	LVS08487	LVS08687		
W = 800 mm	LVS08498	LVS08698	LVS08488	LVS08688		
Mounting	Plinth H = 100 mm					
						
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>	<b>D = 400</b>	<b>D = 600</b>
Four corner posts + two cross-pieces (front and rear)	LVS08723	LVS08724	LVS08726	LVS08728	-	-
Two side plates	-	-	-	-	LVS08720	LVS08721
Characteristics	The plinth is made up of two catalog numbers: <ul style="list-style-type: none"> <li>■ One catalog 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).</li> <li>■ One catalog number comprising two side plates (400 or 600 mm).</li> </ul> Each Catalog number is supplied with the necessary hardware.					
Examples	 <p>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.</p>					
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>⚠ WARNING</b></p> <p><b>TIP OVER HAZARD</b></p> <ul style="list-style-type: none"> <li>• Read and apply user instructions before work:                             <ul style="list-style-type: none"> <li>• Secure the product in place.</li> <li>• Secure the product if removing the securing bolts or moving the product.</li> <li>• Use appropriate lifting equipment.</li> </ul> </li> <li>• Use trained personnel only, who know and understand the user instructions.</li> </ul> <p><b>Failure to follow these instructions can result in death, serious injury, or product damage.</b></p> </div>						



# Cubicles

## Cubicle handling and Lifting reinforcement kit

### Enclosures

Mounting		Cubicle handling and rolling base				
Dimensions (mm)	D = 400	D = 600	L1200 to L1900	L2000 to L2550	L2650 to L3050	
2 cubicle handling base end-pieces	LVS08714	LVS08716	-	-	-	
Cubicle handling	-	-	LVS08705	LVS08706	LVS08707	
Characteristics	This type of base is designed to avoid any risk of cubicle deformation during transport and handling. Five different catalog numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles. <ul style="list-style-type: none"> <li>■ Two catalog numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware.</li> <li>■ Three catalog numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware.</li> </ul> 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.					

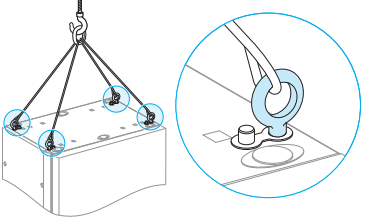
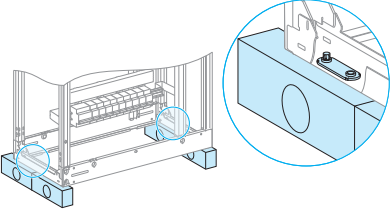
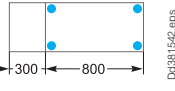
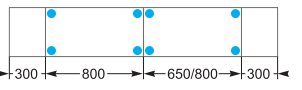
Mounting		Lifting reinforcement kit	
Dimensions (mm)	D = 400, D = 600		
Lifting reinforcement kit	LVS08722		
Characteristics	Kit LVS08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces LVS08714 or LVS08716 for severe transport or handling conditions. Catalog number LVS08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.		

Mounting		Seismic Kit	
		Foot part to be added in each bottom angle to reinforce the structure.	
Reinforcement bracket	LVS08710		
Characteristics	Catalog number ref LVS08710 includes 1 reinforcement bracket and 4 M6 screws. <ul style="list-style-type: none"> <li>■ Plinths are not allowed with seismic kits.</li> </ul>		

Type of cubicle	W300		W400		W650		W650 + W150	
	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600
Framework	LVS08403	LVS08603	LVS08404	LVS08604	LVS08406	LVS08606	LVS08407	LVS08607
Reinforcement bracket	LVS08710 x 4				LVS08710 x 4		LVS08710 x 4	LVS08710 x 6
Longitudinal cross men	LVS08773		LVS08774		LVS03587 x 2			
Lateral cross member	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2	LVS03584 x 2	LVS03584 x 2 + LVS03586 x 2
M10 screw (not supplied)	4	4	4	4	4	4	4	6
Side panels IP55 mandatory for IP30 and IP55 configurations	LVS08755	LVS08765	LVS08755	LVS08765	LVS08755	LVS08765	LVS08755	LVS08765

# Installation accessories

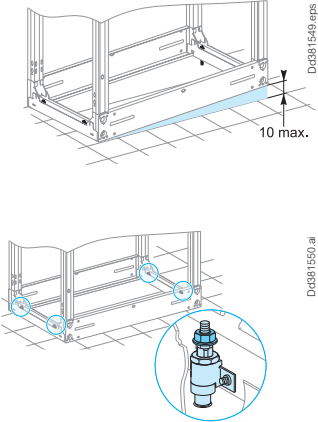
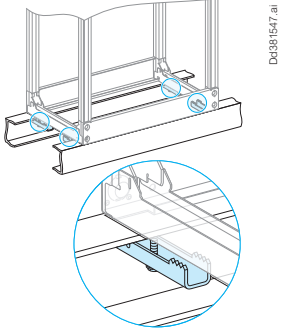
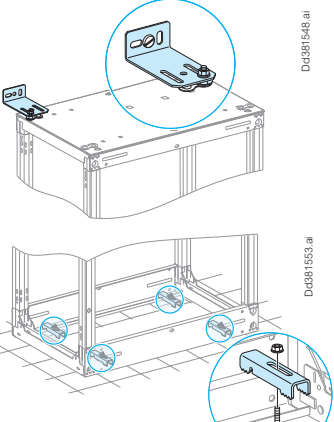
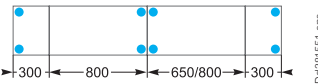
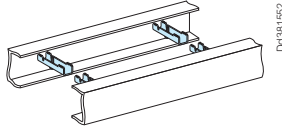
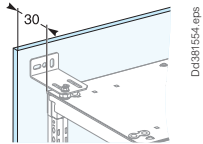
## Enclosures

Mounting	Lifting rings	Framework stabiliser kit
	 <p style="text-align: right; font-size: small;">Doc811541.ai</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;"><b>WARNING</b></p> <p><b>HAZARD OF DROPPING</b></p> <ul style="list-style-type: none"> <li>• Use strong slings with a valid use-by date when lifting with cranes.</li> <li>• Attach the slings to the 4 lifting rings of the cubicles.</li> <li>• For combined units, use lifting beam and slings for lifting.</li> <li>• Secure the plinth of floor standing enclosure using the fasteners.</li> </ul> <p><b>Failure to follow these instructions can result in death, serious injury, or equipment damage.</b></p> </div>	 <p style="text-align: right; font-size: small;">Doc811546.ai</p>
<p>Cat. no.</p> <p>Characteristics</p>	<p><b>LVS08700</b></p> <ul style="list-style-type: none"> <li>■ Set of four lifting rings screwed to the framework.</li> <li>■ Use a set of lifting rings for each framework (W = 650 and 800 mm) containing devices.</li> <li>■ When two cubicles with devices have been combined, use a lifting beam.</li> <li>■ Can be installed and removed without removing the roof</li> <li>■ Even if they are left attached, the switchboard conserves its original degree of protection.</li> </ul> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 5px; font-size: x-small;"> <p>Doc811542.eps</p> </div> </div> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 5px; font-size: x-small;"> <p>Doc811543.eps</p> </div> </div> <p style="font-size: x-small; margin-top: 10px;">Positions of the lifting rings for two combined cubicles containing devices. In this case, a lifting beam must be used.</p>	<p><b>LVS08701</b></p> <ul style="list-style-type: none"> <li>■ Made up of four blocks under the framework.</li> <li>■ Suitable for all types of cubicles, whatever the width and depth.</li> <li>■ Increases the stability of the cubicle during mounting of devices.</li> <li>■ Makes possible cubicle handling using a pallet mover or a forklift.</li> <li>■ Protects the front, side and rear cover panels during handling.</li> <li>■ Can be reused.</li> </ul>



Installation accessories

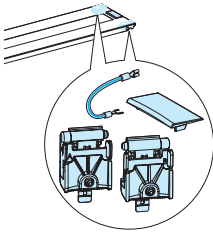
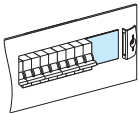
Enclosures

Mounting	Levelling kit	False floor fixing kit	Floor / Wall fixing kit
	 <p>Dd3811549.eps</p> <p>10 max.</p> <p>Dd3811550.ai</p>	 <p>Dd3811577.ai</p>	 <p>Dd3811548.ai</p> <p>Dd3811553.ai</p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>⚠ WARNING</b></p> <p><b>HAZARD OF DROPPING</b></p> <ul style="list-style-type: none"> <li>• Use strong slings with a valid use-by date when lifting with cranes.</li> <li>• Attach the slings to the 4 lifting rings of the cubicles.</li> <li>• For combined units, use lifting beam and slings for lifting.</li> <li>• Secure the plinth of floor standing enclosure using the fasteners.</li> </ul> <p><b>Failure to follow these instructions can result in death, serious injury, or equipment damage.</b></p> </div>
<p>Cat. no.</p> <p>Characteristics</p>	<p><b>LVS08702</b></p> <ul style="list-style-type: none"> <li>■ Set of 4 fixtures.</li> <li>■ Can be installed at any time, even when the cubicle is already in position.</li> <li>■ Maximum adjustment range = 10 mm.</li> <li>■ Secures the cubicle to the floor.</li> </ul>  <p>Dd3811551.eps</p> <p>Recommended positions of the fixtures for combined cubicles.</p>	<p><b>LVS08703</b></p> <ul style="list-style-type: none"> <li>■ Made up of four independent clamps.</li> <li>■ Clamp on:                             <ul style="list-style-type: none"> <li>□ "U" sections: H = 175 mm, W = 70 mm</li> <li>□ "I" sections: H = 120 mm, W = 64 mm</li> </ul> </li> <li>■ clamp travel = 11 mm</li> </ul>  <p>Dd3811552.ai</p>	<p><b>LVS08704</b></p> <ul style="list-style-type: none"> <li>■ Made up of two brackets and four clamps.</li> <li>■ Can be used to offset the switchboard fixing points for easier access.</li> <li>■ The wall brackets ensure sufficient wall clearance (at least 30 mm) for natural convection.</li> </ul>  <p>Dd3811554.eps</p>

# Front plate accessories

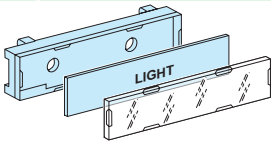
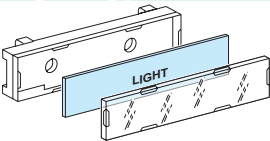
## Front plate accessories, blanking plates

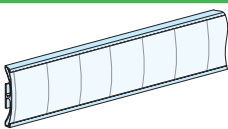
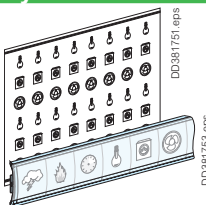
Enclosures

Used for	Front plate hinge kit	Blanking plates	
			
Cat. no.	<b>LVS08585</b> <sup>(1)</sup>	<b>LVS03220</b>	
Characteristics	<ul style="list-style-type: none"> <li>Set of 2 hinges</li> <li>1 earthing braid</li> </ul>	<ul style="list-style-type: none"> <li>Strip</li> <li>H = 46 mm, L = 1 m</li> </ul>	<ul style="list-style-type: none"> <li>Divisible</li> <li>Set of 4</li> <li>H = 46 mm, L = 90 mm</li> <li>White RAL 9003</li> </ul>





**(1)** With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. **LVS08585**). The earthing braid must be connected to the front plate frame support (cat no. **LVS08566**, **LVS08564**, **LVS08560**, **LVS08562** or else).  
 With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. **LVS08566**, **LVS08564**, **LVS08560**, **LVS08562** or else) must be connected to the cubicle frame, using an earthing braid (cat no. **LVS08910** or **LVS08911**). (standard NF / EN 61439-1 2011 edition).

## Identification labels

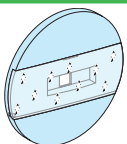
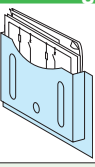
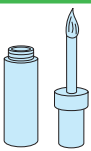
Used for	Clip-on labels			Engraving plates		
						
Cat. no.	<b>LVS08913</b>	<b>LVS08915</b>	<b>LVS08917</b>	<b>LVS08914</b>	<b>LVS08916</b>	<b>LVS08918</b>
Dimensions (mm)	18 x 35	18 x 72	25 x 85	18 x 35	18 x 72	25 x 85
Characteristics	<ul style="list-style-type: none"> <li>Set of 12.</li> <li>The clip-on support is supplied with a paper label and a transparent cover.</li> <li>It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.).</li> </ul>			<ul style="list-style-type: none"> <li>Set of 12.</li> <li>Simply replace the paper labels.</li> </ul>		

Used for	Adhesive labels				Symbol sheets	
						
Cat. no.	<b>LVS08905</b>	<b>LVS08906</b>	<b>LVS08903</b>	<b>LVS08904</b>	<b>13735</b>	<b>13736</b>
Dimensions (mm)	24 x 180	36 x 180	24 x 432	36 x 432		
Characteristics	<ul style="list-style-type: none"> <li>Set of 12.</li> <li>The adhesive label holders are supplied with a paper label and a transparent cover.</li> </ul>				<ul style="list-style-type: none"> <li>Set of ten symbol sheets.</li> <li>Standard symbols:                             <ul style="list-style-type: none"> <li>Loads: sockets, lights, heating units, etc.</li> <li>Rooms: bedroom, bathroom, etc.</li> </ul> </li> <li>Special symbols:                             <ul style="list-style-type: none"> <li>Loads: lightning arrester, gate, swimming pool, etc.</li> <li>Rooms: technical room, computer room, etc.</li> </ul> </li> </ul>	

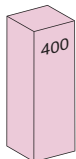
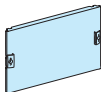

## Adhesive labels for mimic diagrams

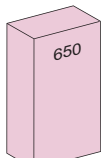
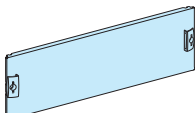
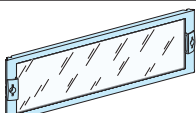
Used for	Lines	Outgoing arrows	Incoming arrows	Transformers
	 x 10	 x 10	 x 10	 x 10
Cat. no.	<b>LVS01005</b>	<b>LVS01006</b>	<b>LVS01007</b>	<b>LVS01008</b>
Characteristics	900 mm long and 7 mm thick Set of 10			

## Accessories

Used for	Switchboard identification plate	Drawing holder	Touch-up accessories
			
Cat. no.	<b>LVS08900</b>	<b>LVS08963</b>	<b>LVS08961</b>
Characteristics	Color: RAL 9003	Color: RAL 9003	Color: RAL 9003

## Reserve space

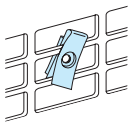
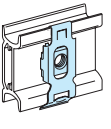
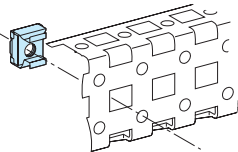
Reserve space								
	 DB417928.eps							
	<b>Plain front plate W = 250 mm</b>							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[13]
Catalog number	LVS03811	LVS03812	LVS03813	LVS03814	LVS03815	LVS03816	LVS03817	LVS03722
	 DB417929.eps							
	<b>Transparent front plate W = 250 mm</b>							
	[No. of vertical mod.]	-	-	-	[4]	-	[6]	[9]
Catalog number	-	-	-	LVS03352	-	LVS03353	LVS03354	-

Reserve space								
	 DB417926.eps							
	<b>Plain front plate W = 500 mm</b>							
	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]
Catalog number	LVS03801	LVS03802	LVS03803	LVS03804	LVS03805	LVS03806	-	LVS03808
	 DB417927.eps							
	<b>Transparent front plate W = 500 mm</b>							
	[No. of vertical mod.]	-	-	-	[4]	-	[6]	[9]
Catalog number	-	-	-	LVS03342	-	LVS03343	LVS03344	LVS03345

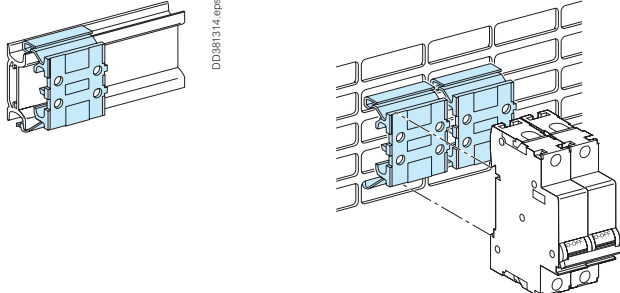
# Fixing accessories

Others

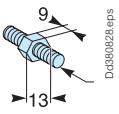
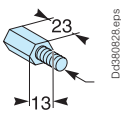
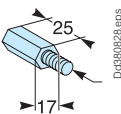
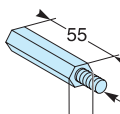
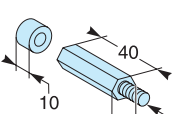
## Clip-nuts

Mounting	For slotted mounting plates	For modular rails	For lateral and longitudinal cross-members
	 DD381312.eps	 Dd381313.eps	 Dd381612.eps
M4	<b>LVS03180</b>	<b>LVS03164</b>	-
M5	<b>LVS03181</b>	<b>LVS03165</b>	-
M6	<b>LVS03182</b>	<b>LVS03166</b>	<b>LVS03194</b>
Characteristics	Set of 20 Mounting of various devices	Set of 20 Mounting of various devices	Set of 20 Mounting in cubicles

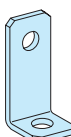
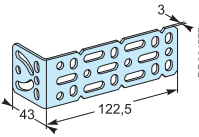
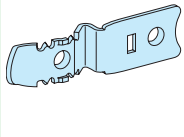
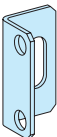
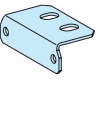
## Pratic raiser

Raiser	
	 DD381314.eps DD381576.eps
Catalog number	<b>LVS04224</b>
Characteristics	Set of 5 Height 10 mm, wide 27 mm Color: RAL 9003, insulating material

## Hexagonal spacers

Hexagonal spacers					
	 DD380628.eps	 Dd380628.eps	 Dd380628.eps	 Dd380628.eps	 Dd380628.eps
M5	<b>LVS03185</b>	<b>LVS03186</b>	-	<b>LVS03187</b>	-
M6	<b>LVS03195</b>	<b>LVS03196</b>	<b>LVS03198</b>	<b>LVS03197</b>	-
M8	-	-	-	-	<b>LVS03199</b>
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

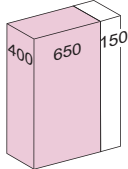
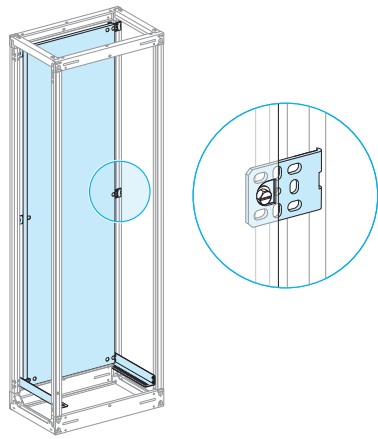
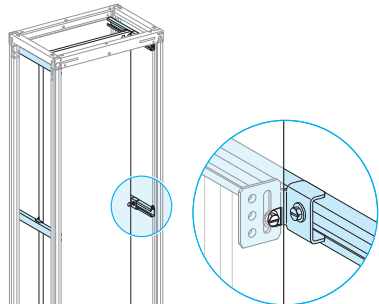
Universal angle brackets					
	 DD383657.eps	 DD381577.eps	 DD382820.eps	 DD383078.eps	 DD385531.eps
Catalog number	<b>LVS03580</b>	<b>LVS03581</b>	<b>LVS03582</b>	<b>LVS03583</b>	<b>LVS04667</b>
Characteristics	Set of 4 + vis	Set of 2	6 universal inserts	Set of 6	Set of 2

# Universal adapter

## Mounting on a plain backplate

Others

### Mounting on a plain backplate

Mounting	Plain backplate	Slide rails + angle brackets	
			
Catalog number	<b>LVS03570</b>	<b>LVS03569</b>	<b>LVS03593</b>
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 **LVS03595** can be used for all mounting plates, except **LVS03030**.  
 Depth adjustable, the busbars can be supplied by a ComPacT INS-INV switch-disconnector or a fixed/withdrawable ComPacT NSX circuit breaker, whatever the type of operating system (toggle, rotary handle, motor mechanism).

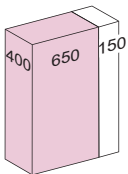
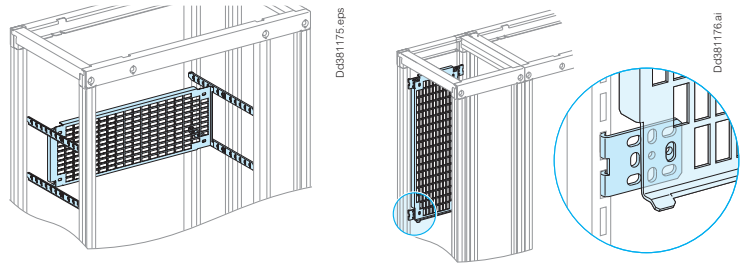
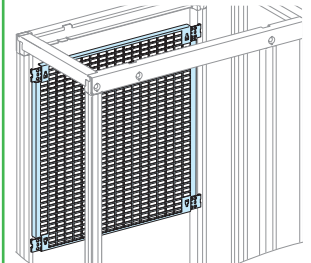
## Others devices

Mounting on a slotted plate

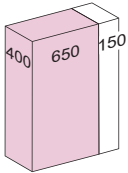
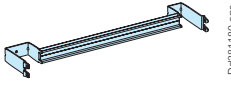
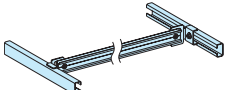
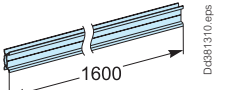
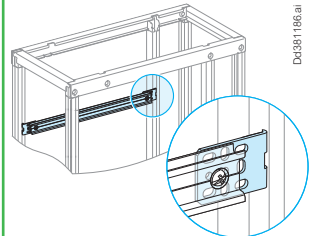
Mounting on a modular rail

Others

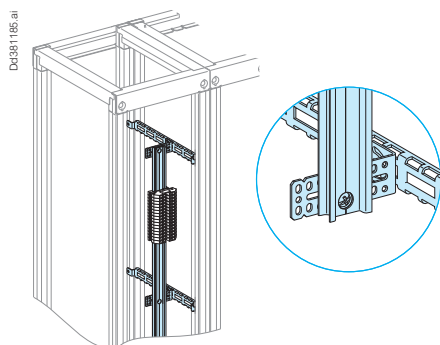
### Mounting on a slotted plate

Mounting	Slotted mounting plates + lateral cross-members		Slotted mounting plate without lateral cross-members
			
Catalog number	<b>LVS03571</b>	<b>LVS03572</b>	<b>LVS03574</b>
Number of vertical modules	4	6	12
Height (mm)	200	300	600
2 universal angle brackets	–	2 x <b>LVS03581</b>	–
Characteristics	<p><b>Installation</b></p> <ul style="list-style-type: none"> <li>■ Either in the device zone on the four lateral cross-members (depth adjustment is possible).</li> <li>■ Or vertically at the rear of a cable compartment, W = 300 mm (LVS03571) or W = 400 mm (LVS03572).</li> </ul>		<ul style="list-style-type: none"> <li>■ Galvanised, slotted metal mounting plate.</li> <li>■ Supplied with four angle brackets, they connect directly to the rear of a framework, W = 650 mm or 800 mm (650 + 150 mm).</li> <li>■ The mounting plate can also be installed using two sets of two slide rails (LVS03593 x 2) for depth adjustment.</li> </ul>

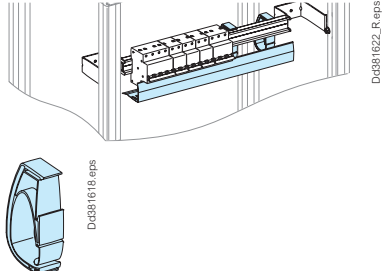
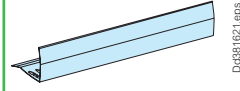
### Mounting on a modular rail

Mounting	Modular rails			Modular rail W = 650 mm
				
Catalog number	<b>LVS03401</b>	<b>LVS03402</b>	<b>LVS04226</b> <sup>(1)</sup>	<b>LVS03590</b>
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.

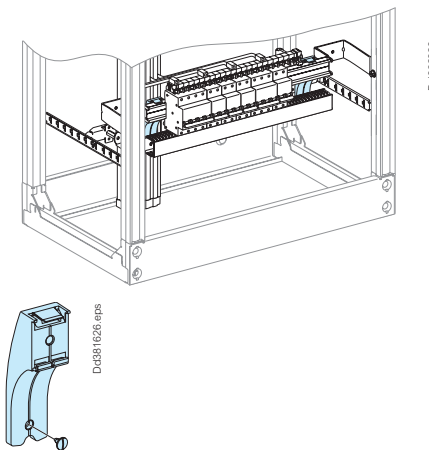
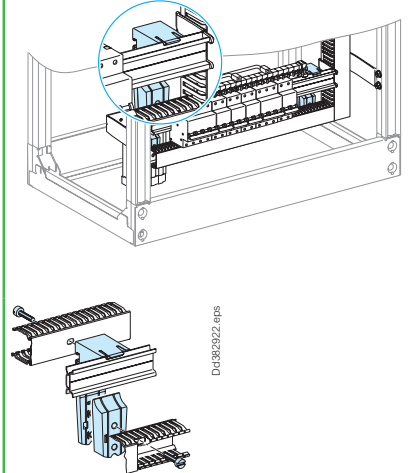
(1) Example of a Linergy busbars installed in a busbar compartment, on a modular rail cat. no. **LVS04226 + LVS03581 + LVS08794**: > page C-84.



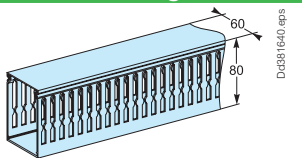
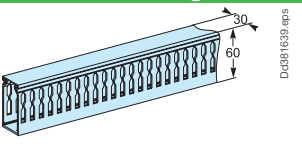
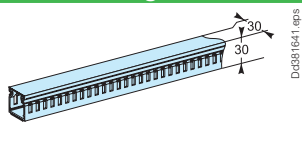
Straps and covers

Type	Horizontal cable straps	Covers for horizontal cable straps
	 <p>Diagram showing horizontal cable straps installed in a cubicle. A single strap component is shown below with label Dd381618.eps.</p>	 <p>Diagram showing a cover for horizontal cable straps with label Dd381621.eps.</p>
Catalog number	<b>LVS04239</b>	<b>LVS04243</b>
Characteristics	Set of 12 Horizontal cable straps have the same capacity as 60 x 30 mm trunking.	Set of 4 covers of 430 mm

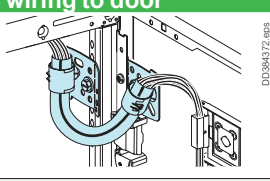
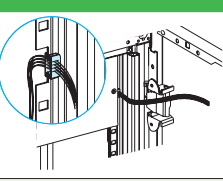
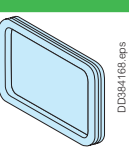

Trunking supports

Type	Horizontal trunking supports	Adaptable support for horizontal trunking
	 <p>Diagram showing horizontal trunking supports installed in a cubicle. A single support component is shown below with label Dd381626.eps.</p>	 <p>Diagram showing an adaptable support for horizontal trunking installed in a cubicle. A single support component is shown below with label Dd382922.eps.</p>
Catalog number	<b>LVS04255</b>	<b>LVS04256</b>
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). <b>Note:</b> 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
	 <p>Diagram showing vertical trunking 80 x 60 mm with label Dd381640.eps.</p>	 <p>Diagram showing horizontal trunking 60 x 30 mm with label Dd381639.eps.</p>	 <p>Diagram showing cable trunking for doors 30 x 30 mm with label Dd381641.eps.</p>
Catalog number	<b>LVS04267</b>	<b>LVS04257</b>	<b>LVS04233</b>
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		
	 <p>Diagram showing flexible trunking for wiring to door with label Dd384372.eps.</p>	 <p>Diagram showing a grommet for wiring through front with label Dd383653.eps.</p>	 <p>Diagram showing a square grommet with label Dd384168.eps.</p>	 <p>Diagram showing a round grommet with label Dd382719.eps.</p>
Catalog number	<b>LVS04235</b>	<b>LVS04234</b>	<b>LVS01215</b>	<b>87648</b>
Characteristics	W = 500 mm, inner Ø = 19 mm	Set of 10 For wiring through front	5 square grommets 70 x 40	50 grommets Ø22 mm

## Connection accessories

### Cable-tie supports, lateral and longitudinal cross-members

Others

Mounting	Longitudinal cable-tie supports				Lateral cable-tie supports	
Catalog number	<b>LVS08773</b>	<b>LVS08774</b>	<b>LVS08776</b>	<b>LVS08778</b>	<b>LVS08794</b>	<b>LVS08796</b>
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.	

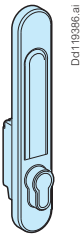
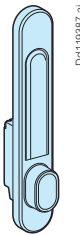
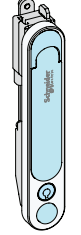
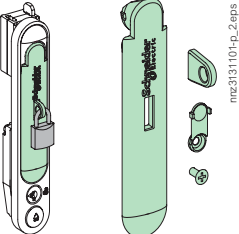
Mounting	C-shaped cable-tie supports
Catalog number	<b>LVS08783</b>
Characteristics	<p>C-shaped 1600 mm long support, supplied with hardware for mounting on universal angle brackets and modular rails, that can be cut to length as needed.</p> <p>Can be secured to:</p> <ul style="list-style-type: none"> <li>■ Universal angle bracket <b>LVS03581</b> (for the longitudinal support).</li> <li>■ Universal angle bracket <b>LVS03582</b> (for the lateral support).</li> <li>■ Modular rail <b>LVS03593</b> (for depth adjustment).</li> </ul>

Mounting	Lateral cross-members	Longitudinal cross-members	
Catalog number	<b>LVS03584</b>	<b>LVS03586</b>	<b>LVS03587</b>
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.		

# Door handles and locks

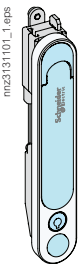


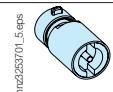

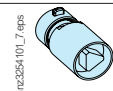
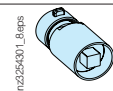
Others

## Handles and padlocking

	EURO handle	ASSA/ABLOY handle	RAL 7016 rotary handle	Padlocking
				
Cat. no.	<b>LVS07932</b>	<b>LVS07933</b>	<b>LVS07931</b>	<b>LVS07938</b>
Characteristics	Supplied without barrel	Supplied without barrel	Supplied with barrel lock (key no. 405) RAL 7016	For new rotary handle


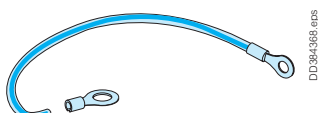
## Barrel locks, inserts

The barrel locks and inserts below can mount on all the door handles of Prisma**SeT** P range after removing the standard barrel lock (key n°405).

Barrels & inserts for rotary handle		Characteristics	Catalog numbers
		1 key no. 405	<b>LVS07940</b>
		2 keys no. 455	<b>LVS07941</b>
		2 keys no. 1242E	<b>LVS07942</b>
		2 keys no. 3113A	<b>LVS07943</b>
		2 keys no. 2433A	<b>LVS07944</b>
		2 keys no. 2432E	<b>LVS07956</b>
	DIN double bar insert	<b>LVS07945</b>	
	Screwdriver slot insert	<b>LVS07946</b>	
	Male triangle insert 8 mm	<b>LVS07949</b>	
	Male square insert 6 mm 8 mm	<b>LVS07951</b>	
		<b>LVS07953</b>	

## Earthing braid

Earthing braid is used to earth a door or wicket door with devices.

	Earthing braid, 6 mm <sup>2</sup>	Earthing wire, 6 mm <sup>2</sup>
		
Catalog numbers	<b>LVS08910</b>	<b>LVS08911</b>
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.

## Ventilation accessories

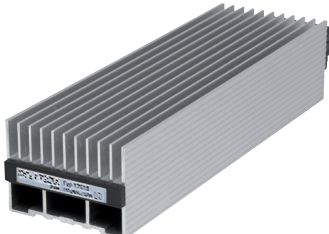

### Heat

Others


### 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"> <li>■ Vertical mounting.</li> <li>■ Aluminium case with fins.</li> <li>■ Temperature:                             <ul style="list-style-type: none"> <li>□ Turns off at 60 °C.</li> <li>□ Turns on at 25-30 °C (temperature of the resistor itself).</li> </ul> </li> <li>■ Equipped with a symmetrical.</li> </ul>					<ul style="list-style-type: none"> <li>■ Vertical mounting.</li> <li>■ Aluminium case with fins.</li> <li>■ Temperature:                             <ul style="list-style-type: none"> <li>□ Turns off at 60 °C.</li> <li>□ Turns on at 25-30 °C (temperature of the resistor itself).</li> </ul> </li> <li>■ Equipped with a symmetrical.</li> </ul>	

### Thermofan

Thermofan	
	
Terminal block	
Cat. no.	NSYCRP1W230VTVC
Power rating (W)	400/550
Voltage (V)	230 AC
Characteristics	<ul style="list-style-type: none"> <li>■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure.</li> <li>■ Fixing by clip on a DIN rail.</li> <li>■ Thermostat adjustable from 0...+60 °C.</li> <li>■ Visual operation indicator.</li> </ul>

# Linergy Distribution Systems

## Contents

### Power busbars

<b>Linergy LGYE</b>	
Horizontal profiles up to 3200 A	C-72
Lateral profiles up to 3200 A	C-73
<b>Linergy Busbars</b>	
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### Distribution blocks

<b>Linergy DP</b>	
Quick distribution blocks - ComPacT NSXm up to 160 A	C-75

### Secondary distribution

<b>Insulated flexible bars</b>	<b>C-76</b>
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### Distribution blocks

<b>Linergy DX</b>	
Quick distribution blocks	C-78

### Device feeders

<b>Linergy FM</b>	
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### Terminal blocks and lines

<b>Linergy TB</b>	
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### Secondary distribution

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### Electrical characteristics

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# Linergy LGYE

Horizontal profiles up to 3200 A

400 mm deep installation

Power busbars

Linergy LGYE profiles		Up to 1600 A					Up to 2500 A		Up to 3200 A
<b>Installation</b>									
Linergy profiles, 2000 mm length									
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A
Number of profiles per phase		1							
Total number of vertical modules (50 mm)		3					3		4
<b>Catalog numbers</b>		LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04565	LVS04566	LVS04567

Busbar supports			
<b>Characteristics</b>		Two fixed supports for 650 mm or 650 + 150 mm wide PrismaSeT P frameworks and one fixed support for 300/400 mm wide PrismaSeT P frameworks are mandatory. If more supports are required, use free supports.	
In cubicle W = 650 or W = 650+150 busbar supports 75 mm between centres	Number of supports	≤ 15	2
	Number of supports depending on lcw (kA rms/1 s)	≤ 25	2
In duct W = 300 busbar supports 75 mm between centres	Number of supports	≤ 30	2
	Number of supports depending on lcw (kA rms/1 s)	≤ 40	2
	Number of supports	≤ 50	2
	Number of supports	≤ 60	2+1
	Number of supports	≤ 65	2+1
	Number of supports	≤ 75	2+1
	Number of supports	≤ 85	2+1
In duct W = 400 busbar supports 75 mm between centres	Number of supports	≤ 85	2+1
	Number of supports	≤ 100	2+3
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 (1)
	Free support	LVS04662	LVS04662 + LVS04671 (1)
In cubicle W = 800 busbar supports 75 mm between centres	Number of supports depending on lcw (kA rms/1 s)	≤ 100	2 + 4 (3)
	Number of supports	≤ 100	2 + 4 (3)
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 (1)
	Free support	LVS04662	LVS04662 + LVS04671 (1)
In duct W = 300 busbar supports 75 mm between centres	Number of supports	≤ 60	1
	Number of supports depending on lcw (kA rms/1 s)	≤ 85	1 + 1
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 (1)
	Free support	LVS04662	LVS04662 + LVS04671 (1)
In duct W = 400 busbar supports 75 mm between centres	Number of supports	≤ 50	1
	Number of supports depending on lcw (kA rms/1 s)	≤ 85	1 + 1
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 (1)
	Free support	LVS04662	LVS04662 + LVS04671 (1)

Catalog numbers	Up to 1600 A					Up to 2500 A		Up to 3200 A
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
	LVS04620					LVS04624		LVS04623
<b>Catalog numbers</b>	3x LVS04620 (3P) 4x LVS04620 + LVS04624 (4P)					3x LVS04621 (3P) 4x LVS04621 + LVS04624 (4P)		3x LVS04623 (3P) 4x LVS04623 + LVS04624 (4P)
<b>Note</b>	LVS04624 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) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Contains 2 threaded rods and 4 insulators.

(2) LVS04646: mounting hardware for bars or profile H = 150 mm. Contains 2 threaded rods and 2 insulators. Note: For accessories > page C-74.

(3) It is applicable for W800 control panel configuration only.

# Linergy LGYE

Lateral profiles up to 3200 A

400 mm deep installation

Power busbars

Linergy LGYE profiles			Linergy profile, 2000 mm length <sup>(1)</sup>					Linergy profile, 1625 mm length		
In duct	W150					W150	W300			
Linergy profile										
	<b>630 A</b>	<b>800 A</b>	<b>1000 A</b>	<b>1250 A</b>	<b>1600 A</b>	<b>2000 A</b>	<b>2500 A</b>	<b>3200 A</b>		
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	1650 A 1480 A	2000 A 1650 A	2440 A 2100 A	3200 A 2800 A	
Length to cut for side mounting	1675 mm					-		-		
Number of profiles per phase	1					-		-		
<b>Catalog numbers</b>	<b>LVS04560</b>	<b>LVS04561</b>	<b>LVS04562</b>	<b>LVS04563</b>	<b>LVS04564</b>	<b>LVS04507</b>	<b>LVS04508</b>	<b>LVS04509</b>		
<b>Busbar supports</b>										
	Fixed support <b>LVS04661</b>		Free support <b>LVS04662</b>		Bottom support <b>LVS04666</b>					
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.									
Number depending on l <sub>cw</sub> (kA rms/1 s)	≤ 30	3		3		3		3		
≤ 40	-	3+2		3		3		3		
≤ 50	-	3+2		3		3		3		
≤ 60	-	3+2		3		3		3		
≤ 65	-	3+2		3		3		3		
≤ 75	-	3+2		3+4		3+2		3+2		
≤ 85	-	3+4		3+4		3+4		3+4		
≤ 100	-	3+6		3+6		3+6		3+6		
In duct W150, W = 300 busbar supports 75 mm between centres	<b>Catalog numbers</b>	Fixed support	<b>LVS04661</b>			<b>LVS04661 + LVS04671</b> <sup>(2)</sup>		<b>LVS04661 + LVS04646</b> <sup>(3)</sup>		
		Free support	<b>LVS04662</b>			<b>LVS04662 + LVS04671</b> <sup>(2)</sup>		<b>LVS04662 + LVS04646</b> <sup>(3)</sup>		
<b>Busbars chocks</b>										
	Chocks installed on a bottom support <b>LVS04658</b>		Chocks installed on a bottom support <b>LVS04659</b>							
Characteristics	The bottom support maintains the sections in position. It is not considered a busbar support.									
In duct W150, W = 300	<b>Catalog numbers</b>	Bottom support	<b>LVS04663</b>			<b>LVS04666 + LVS04661</b>				
		Chocks	<b>LVS04658</b>			<b>LVS04659</b>				
<b>Connections to the horizontal Linergy LGYE busbars</b>										
	630 to 1600 A		2000 to 2500 A		3200 A					
Characteristics	Supplied with mounting hardware. Catalog numbers include 1 connection only: 1 connection per phase.									
<b>Cat. no. according to horizontal busbar size</b>	<b>LVS04602</b> (straight connection) <b>LVS04603</b> (shifted connection)			<b>LVS04604</b> (short connection) <b>LVS04605</b> (long connection)		<b>LVS04607</b>				

(1) Linergy LGYE profiles up to 1600 A must be cut at the dimension of the cubicle: 1625 mm.

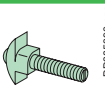
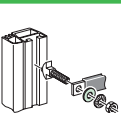
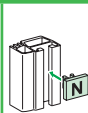
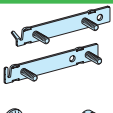
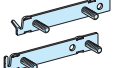


(2) **LVS04671**: mounting hardware for bars or profile H = 100 or 120 mm. Contain 2 threaded rods and 4 insulators.

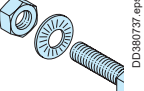
(3) **LVS04646**: mounting hardware for bars or profile H = 150 mm. Contain 2 threaded rods and 3 insulators.


# Linergy Busbars

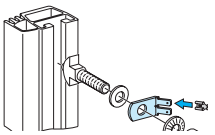
## Accessories

### Power busbars

Accessories										
										
Cat. no.	<b>LVS04766</b>	<b>LVS04767</b>	<b>LVS04772</b>	<b>LVS04773</b>	<b>LVS04774</b>	<b>LVS04775</b>	<b>LVS04794</b>	<b>LVS01130</b>	<b>LVS04768</b>	<b>LVS04769</b>
Characteristics	L 25 mm	L 39 mm	20 mm ext. Ø	24 mm ext. Ø	28 mm ext. Ø	20 mm ext. Ø		2 studs	2 studs	3 studs
	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.		M8 set of 20			M8 sold in lots of 20 for connection of ≤ 25 mm <sup>2</sup> lugs to Linergy	12 clip-on supports + N, L1, L2, L3, PE, PEN labels	Linergy LGYE busbars connection kit spare part	Set of 12 flat plates with 2 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile.	Set of 8 flat plates with 3 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile.

M8 bolts		
		
Linergy BS, 20 bolts class 8.8	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers.
	<b>Catalog numbers</b>	<b>LVS04782</b>
		<b>LVS04783</b>
		<b>LVS04784</b>
		<b>LVS04785</b>
		<b>LVS04786</b>
		<b>LVS04787</b>
		<b>LVS04788</b>

Torque nuts		
		
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.
	<b>Catalog numbers</b>	<b>LVS04759</b>

Voltage tap-offs		
		
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. LVS04775) between the busbar and the lug.
	<b>Catalog numbers</b>	<b>LVS04229</b>

### ★ Connections on Linergy LGYE & LGY

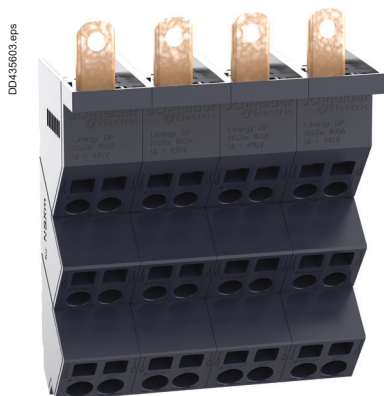
InA (A)		Connecting to Linergy LGYE
0 to 630	Cable - Insulated flexible bars	25 mm Linergy connection hardware used
800 to 1250	5 mm bars	25 mm Linergy connection hardware used
1600 to 2500	5 mm or 10 mm bars	Use of the 2 studs flat plate
3200 to 4000	10 mm bars	Use of the 3 studs flat plate

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

# Linergy DP

Quick distribution blocks - ComPacT NSXm up to 160 A

## Distribution blocks



### IEC 60947-7-1, IEC 61439-1 and 2

#### Description

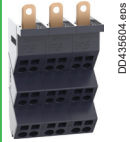
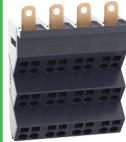
■ The Linergy DP quick distribution block is designed for installation directly downstream of ComPacT NSXm up to 160 A. It can also be clipped onto a modular rail.

#### 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.



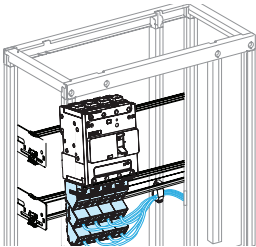
### Quick distribution blocks for ComPacT devices

Number of poles	3P	4P
		
Rated operational current (Ie)	160 A	160 A
Rated peak withstand current (Ipk)	20 kA	20 kA
Rated short-time current (Icc)	70 kA	70 kA
Thermal stress (I².t)	4.7 x 10⁶ A²S	4.7 x 10⁶ A²S
Total connection capacity, outgoing terminals	18 connections: 4 x 10²/phase 2 x 16²/phase	24 connections: 4 x 10²/phase 2 x 16²/phase
Incomer terminals	1 cable lug 70 mm² per pole	
Dimensions (H x W x D)	140 X 81 X 58 mm	140 X 108 X 58 mm
Installation	On mounting plate or DIN rail	
Product certifications	ASEFA	
Standard for installation inside PrismaSeT	IEC 61439-1-2	
Glow-wire 60695-2-11	960 °C	
Catalogue numbers	LVS04038	LVS04039

### Technical Data

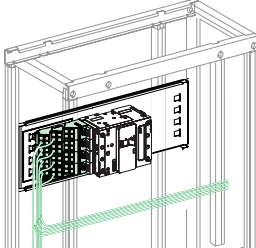
Common characteristics		
Rated conditional short-circuit current of an assembly (Isc)		The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage (Ui)	800 V AC	
Rated operational voltage (Ue)	690 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	
Additional technical characteristics		
Reference temperature	40 °C	
Operating temperature	-25 °C to 55 °C	

### Installation



DD435606.eps

It can also be mounted downstream of vertically mounted **ComPacT NSXm** devices in the enclosures. In this case, the Linergy DP is mounted on a depth-adjustable modular rail.



DD435607.eps

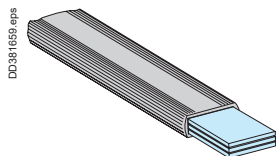
Directly on the mounting plates of horizontally mounted **ComPacT NSXm** devices in the enclosures.

For details on mounting plates, refer > [page C-23](#).

Note: Electrical characteristics > page C-85.

## Insulated flexible bars

## Secondary distribution



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 PrismaSeT switchboard.

## Characteristics

Length	1800 mm
Rated insulation voltage (Ui)	1000 V
Maximum withstand temperature for the insulating material	125 °C

## Connection between device and busbars

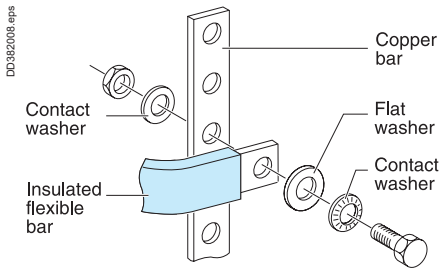
The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.

The bar sizes indicated below take into account the derating curves of devices.

Devices	Size (mm)	Catalogue number
NSX100	20 x 2	LVS04742
NSX160/250	20 x 3	LVS04743
NSX400	32 x 5	LVS04751
NSX630	32 x 8 <sup>(1)</sup>	LVS04753

<sup>(1)</sup> The insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit LVS04924 > page C-94.

Secondary distribution



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.

le <sup>(1)</sup> max	Size (mm)	Catalog numbers
200 A	20 x 2	LVS04742
250 A	20 x 3	LVS04743
400 A	24 x 5	LVS04746
520 A	32 x 5	LVS04751
580 A	32 x 6	LVS04752
660 A	32 x 8	LVS04753

(1) Rated operational current.

Designing connections

> page C-76.



## Linerger DX

Quick distribution blocks

Distribution blocks



## IEC 60947-7-1, IEC 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	
		
Rated operational current at 40° (Ie)	125 A	160 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. 150 kA with upstream protection of 150 kA Icc	
Rated peak withstand current (Ipk)	20 kA	20 kA
Rated insulation voltage (Ui)	750 V AC	750 V AC
Rated operational voltage (Ue)	690 V AC	690 V AC
Rated impulse withstand voltage (Uimp)	8 kV	8 kV
Rated short-time current (Icc)	150 kA	150 kA
Thermal stress (I².t)	2.025 x 10 <sup>7</sup>	2.025 x 10 <sup>7</sup>
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Incoming terminals	1 tunnel terminal 35 <sup>2</sup> /phase	Supplied with a prefabricated flexible connection equipped with tunnel terminals (for INS-INV100/160 use adaptor <b>28947</b> (3P) <b>28948</b> (4P))
Total connection capacity, outgoing terminals	52 connections: 7 x 4 <sup>2</sup> /phase 3 x 6 <sup>2</sup> /phase 2 x 10 <sup>2</sup> /phase 1 x 16 <sup>2</sup> /phase (screw terminal)	52 connections: 7 x 4 <sup>2</sup> /phase 3 x 6 <sup>2</sup> /phase 2 x 10 <sup>2</sup> /phase 1 x 16 <sup>2</sup> /phase (screw terminal)
Dimensions (H x W x D)	127 x 108 x 48 12 x 9 mm pitch	127 x 108 x 48 12 x 9 mm pitch
Installation	Screwed to plain or slotted backplate or onto DIN rail	Screwed to plain or slotted backplate or onto DIN rail
Others	Possible to combine 2 terminal blocks (2 <sup>nd</sup> terminal block supplied from enclosed terminals in the 1 <sup>st</sup> , I <sub>max</sub> of 2 <sup>nd</sup> terminal block: 80 A)	—
Standard for installation inside PrismaSeT	IEC 61439-2	IEC 61439-2
Glow-wire 60695-2-11	960 °C	960 °C
Degree of pollution	3	3
Catalog numbers	LVS04045	LVS04046 <sup>(1)</sup>

## Accessories

	4 x 125 A flexible connections, L = 240 mm with 1 end fitting for tunnel terminals.	
Catalog numbers	LVS04047 <sup>(1)</sup>	—


## Linergy DX

## Quick distribution blocks

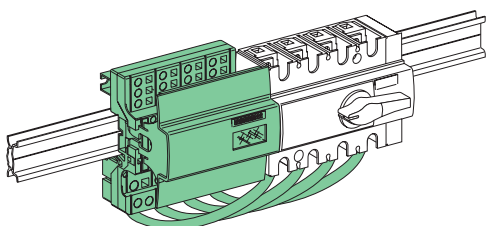
## Distribution blocks

## Advantages

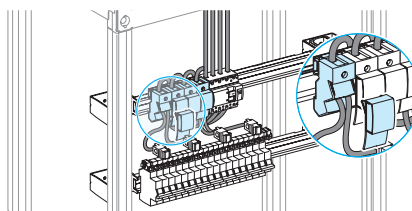
- A reliable electrical connection, no maintenance required (tightness guaranteed over time).
- Quick connection.
- Easy phase balancing.
- Ease of rewiring if the switchboard is expanded or modified.

Quick distribution blocks	
Number of poles	1P
	
Rated operational current at 40° (Ie)	160 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. 150 kA with upstream protection of 150 kA Icc
Rated peak withstand current (Ipk)	24 kA
Rated insulation voltage (Ui)	750 V AC
Rated operational voltage (Ue)	690 V AC
Rated impulse withstand voltage (Uimp)	8 kV
Rated short-time current (Icc)	150 kA
Thermal stress (I².t)	3.025 x 10 <sup>7</sup>
Rated operational frequency	50/60 Hz
Degree of protection	IPxxB
Incoming terminals	1 tunnel terminal 70 <sup>2</sup> /phase
Total connection capacity, outgoing terminals	6 connections: 6 x 16 <sup>2</sup> /phase
Dimensions (H x W x D)	95 x 36 x 70 4 x 9 mm pitch
Installation	Onto DIN rail
Others	—
Standard for installation inside PrismaSeT	IEC 61439-2
Glow-wire 60695-2-11	960 °C
Degree of pollution	3
Catalog numbers	LVS04031
Accessories	
	4 x 160 A flexible connections, L = 380 mm with 2 x 45 mm <sup>2</sup> end fittings for tunnel terminals.
Catalog numbers	LVS04149

PB502370-55-eps



D4338354-eps



**Note:** Electrical characteristics > page C-85.

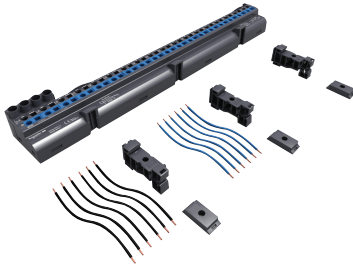
(1) To be adapted with reference **28947** and **28948** fir INS-INV160.

# Linergy FM

## Quick device feeders

### Device feeders



PB104505-50.eps



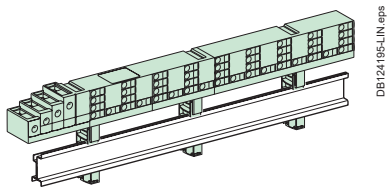
## IEC60947-7-1, IEC61439-1 and 2 Description

- 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  $\geq 160$  A: clipped onto the back of a modular rail or screwed onto a solid or pre-slotted plate.

### Distribution blocks

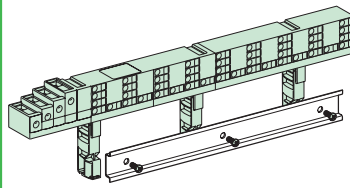
Number of poles	4P	4P
		
	<b>63 A</b>	<b>80 A</b>
Rated peak withstand current (I <sub>pk</sub> )	12 kA	13 kA
Rated conditional short-circuit current of an assembly (I <sub>sc</sub> )	The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have 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. 150 kA	
Rated insulation voltage (U <sub>i</sub> )	500 V AC	500 V AC
Rated voltage (U <sub>e</sub> )	440 V AC	440 V AC
Rated impulse withstand voltage (U <sub>imp</sub> )	6 kV	8 kV
Maximum current (I <sub>max</sub> )	–	–
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Supply at incoming terminals	Enclosed terminals for cables up to 25 mm <sup>2</sup>	Enclosed terminals for cables up to 25 mm <sup>2</sup>
Total connection capacity at outgoing terminals	Spring terminals for rigid or flexible cables: 4 for each phase (2 x 1 to 4 mm <sup>2</sup> + 2 x 1 to 6 mm <sup>2</sup> ) 8 for the neutral (4 x 1 to 4 mm <sup>2</sup> + 4 x 1 to 6 mm <sup>2</sup> )	Spring terminals for rigid or flexible cables: 9 for each phase (2 x 6 mm <sup>2</sup> + 7 x 4 mm <sup>2</sup> ) 17 for the neutral (4 x 6 mm <sup>2</sup> + 13 x 4 mm <sup>2</sup> )
Width	24 9-mm pitches 12 18-mm modules	48 9-mm pitches 24 18-mm modules
Composition	Stripped copper connections (L=100 mm) 10 x 4 mm <sup>2</sup> + 6 x 6 mm <sup>2</sup>	Stripped copper connections (L=105 mm) 6 mm <sup>2</sup> (6 black) 4 mm <sup>2</sup> (20 black)
Catalog numbers	<b>LVS04008</b>	<b>LVS04004</b>

### Installation



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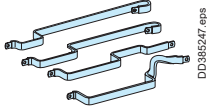
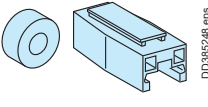
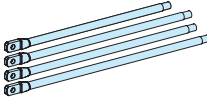
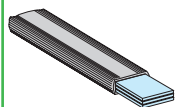
Clipped onto the back of a modular rail, or screw fixing.



DB1241965-LIN.eps

Clipped onto the back of a modular rail, or screw fixing.

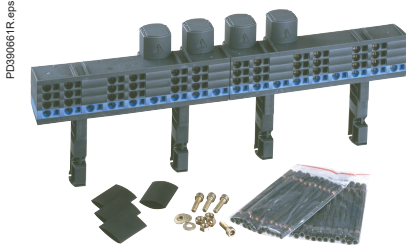
### Connections to the device feeders






				
	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Linergy FM 1/2 row	200 A connection (20 x 3) for Linergy FM
Allows power supply from	Multi-stage Linergy BS busbar	Rear Linergy BS busbar	Device	Device
Catalog numbers	<b>LVS04024</b>	<b>LVS04029</b>	<b>LVS04030</b>	<b>LVS04743</b>

# Linergy FM

Quick device feeders

Device feeders



4P	2P	3P	4P	4P
				
<b>160 A</b> 20 kA	<b>200 A</b> 20 kA	<b>200 A</b> 20 kA	<b>200 A</b> 20 kA	<b>200 A</b> 20 kA
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.				
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 <sup>2</sup> cable/63 A for feeder for two 10 mm <sup>2</sup> cables				
50/60 Hz				
IPxxB				
Direct onto the row by cable 70 mm <sup>2</sup> with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection.				
6 connection points for each phase 9 connection points for the neutral	12 connection points for each phase 18 connection points for the neutral		18 connection points for each phase 27 connection points for the neutral	
24 9-mm pitches 12 18-mm modules	48 9-mm pitches 24 18-mm modules		72 9-mm pitches 36 18-mm modules	
2 sachets with 12 stripped copper connections 10 mm <sup>2</sup> (L=100 mm) Protective covers for power supply rows (IPxxB) Fixing accessories for power supply rows				
<b>LVS04018</b> <sup>(1)</sup>	<b>LVS04012</b> <sup>(1) (2)</sup>	<b>LVS04013</b> <sup>(1)</sup>	<b>LVS04014</b> <sup>(1) (2)</sup>	<b>LVS04026</b> <sup>(1)</sup>

## Spare parts

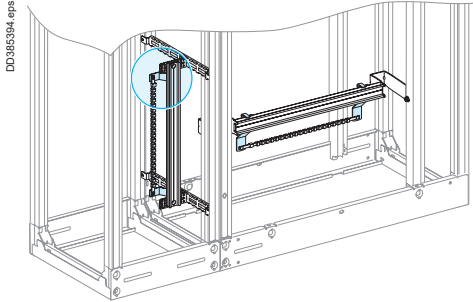
	
<b>Catalog numbers</b>	4 covers for 160/200 A Linergy FM rows <b>LVS01202</b>

**Note:** Electrical characteristics > page C-85.

- (1) Cable to be used without ferrules.
- (2) The Linergy FM 200 (**LVS04012** and **LVS04014**) can be used with direct current. The upstream and downstream terminal type (⊕ and ⊖) must be marked on the device. For more information, please contact our customer services.

Linergy TB  
Earth bars

Terminal blocks and lines

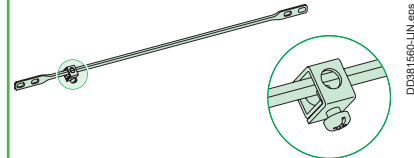


Description

This range of earth bars is installed:

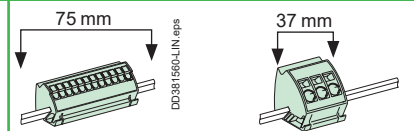
- In the duct which can constitute a dedicated area, completely separate from the equipment.
- Or in the switchgear compartment, at the top or the bottom.

Fast-connecting earth bar



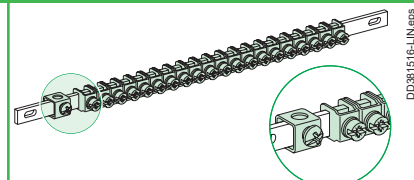
	<b>Copper earth bar</b>
Cross-section (mm)	12 x 3
Effective length (mm)	330
Total length (mm)	450
Composition	Copper bar with 1 terminal 16 to 35 mm <sup>2</sup>
Rated short time withstand current (Icw)	9 kA rms/0.5 s
<b>Catalog numbers</b>	<b>LVS04201</b>

Accessories



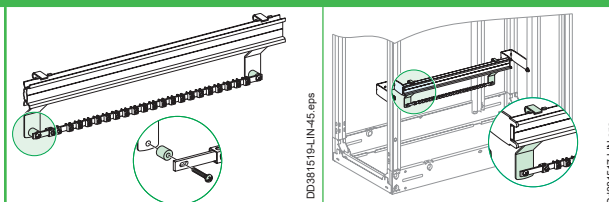
	<b>Earth blocks with terminals</b>	
	Spring-fixing (clip onto the earth bar)	
Total connection capacity	12 x 4 mm <sup>2</sup>	3 x 16 mm <sup>2</sup>
Composition	4 earth blocks	4 earth blocks
Rated short time withstand current (Icw)	1 kA rms/0.5 s	4 kA rms/0.5 s
<b>Catalog numbers</b>	<b>LVS04214</b>	<b>LVS04215</b>

Accessories



	<b>Copper earth bar with jumper</b>	
Total connection capacity	40 x 2.5 to 16 mm <sup>2</sup>	20 x 2.5 to 16 mm <sup>2</sup>
Cross-section (mm)	12 x 3	12 x 3
Length (mm)	450	200
Composition	40 jumpers and a terminal (16 to 35 mm <sup>2</sup> )	20 jumpers and a terminal (16 to 35 mm <sup>2</sup> )
Rated short time withstand current (Icw)	9 kA rms/0.5 s	9 kA rms/0.5 s
<b>Catalog numbers</b>	<b>LVS04200</b>	<b>LVS04202</b>

Accessories



	<b>Neutral bar</b>	<b>Earth bar</b>
	Converts an earth bar to a neutral bar	
Composition	2 insulating spacers	2 supports for earth bar on modular rail
<b>Catalog numbers</b>	<b>LVS04210</b>	<b>LVS04205</b>

Linergy TB  
PE conductors

Terminal blocks and lines

PE conductors									
	<b>Vertical PE conductor with Linergy LGY profile (W = 1670 mm)</b>			<b>Vertical PE conductor with Linergy BS busbar (W = 1675 mm)</b>			<b>Horizontal PE conductor with Linergy BS busbar</b>		
Rated short-time current (Isc)	≤ 65	> 65... ≤ 80	= 100	≤ 40	< 85	≤ 100	≤ 40	< 85	≤ 100
Permissible current (A)	630	800	1250	400	600	800	400	600	800
Bar size (mm)	–	–	–	25 x 5	50 x 5	60 x 5	25 x 5	50 x 5	60 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)	Drilled flat bar Ø10.6 mm (two 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)	Drilled flat bar Ø10.6 mm (two 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)
Catalog numbers	LVS04502	LVS04503	LVS04505	LVS04512	LVS04515	LVS04516	LVS04512	LVS04515	LVS04516

Support selection			
Composition	Three supports for one vertical PE (supplied with PE marking) to secure to the framework.	Three supports for one vertical PE (supplied with PE marking) to secure to the framework.	Two supports for one horizontal PE.
Catalog numbers	LVS04657	LVS04657	LVS04667

Connection between PE conductors	
Composition	<p><b>Connection plates for horizontal/vertical PE bars</b> 2 copper angle brackets</p> <p><b>Linergy connection hardware</b> 20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars</p>
Catalog numbers	LVS04672      LVS04766

PEN conductors		
	<b>Linergy TB PEN installation kit with LGY vertical profile</b>	<b>1600 A connection 10 mm horizontal busbar with Linergy LGY profile</b>
Catalog numbers	LVS04656 <sup>(1)</sup>	LVS04636
		<b>Linergy LGYE vertical connection 1600 A</b>
Catalog numbers		LVS04602

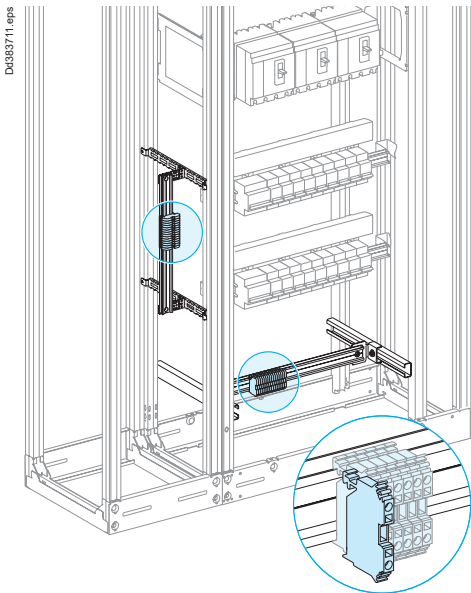
(1) For LGYE HBB, additional fish plate need to be manufactured as per the drawing supplied by Schneider Electric.

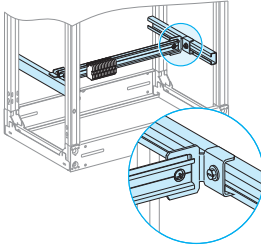
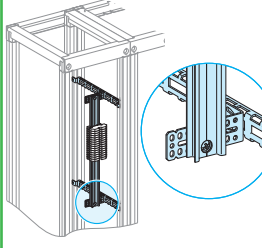
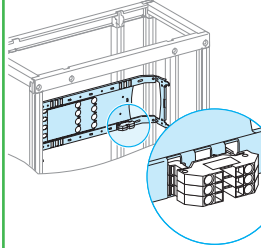
# Linergy TB terminal block support

## Secondary distribution

### Introduction

In Prisma**SeT** 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)	<b>LVS03402</b>	–	–
2 modular rails W = 1600 mm	<b>LVS04226</b>	<b>LVS04226</b>	–
2 universal angle brackets	<b>LVS03581</b>	<b>LVS03581</b>	–
Set of two lateral cross-members W = 400 mm	<b>LVS03584</b>	–	–
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 <sup>2</sup> )	4	6	10	16
Width of terminal block (mm)	6	8	10	12

### Height required in switchboard

Max. cable CSA (mm <sup>2</sup> )	4	6	10	16
No. of vertical modules	3	3	5	6
Plain front plate	<b>LVS03803</b>	<b>LVS03803</b>	<b>LVS03805</b>	<b>LVS03806</b>

Designing connection  $\leq 630$  A

## Auxiliary connections

## Electrical characteristics

Device	Ambient temperature around the switchboard											
	25°C		30°C		35°C		40°C		45°C		50°C	
	IP $\leq$ 31	IP > 31	IP $\leq$ 31	IP > 31	IP $\leq$ 31	IP > 31	IP $\leq$ 31	IP > 31	IP $\leq$ 31	IP > 31	IP $\leq$ 31	IP > 31
Rated current of a circuit $I_{nc}$ (A)												
<b>Linergy DX</b>												
Quick distribution block Linergy DX 4P 125A	134	125	129	120	125	116	120	111	116	106	111	■
Quick distribution block Linergy DX 4P 160A	171	160	166	154	160	148	154	142	148	135	142	■
Quick distribution block Linergy DX 1P 1P 160A	171	160	166	154	160	148	154	142	148	155	142	■
<b>Linergy DP</b>												
Quick distribution block Linergy DP 3P-4P 160A	160	160	155	155	150	150	145	145	140	140	135	■
Quick distribution block Linergy DP 3P-4P 250A	267	250	259	241	250	231	241	222	231	211	222	■
<b>Linergy FM</b>												
Quick device feeders Linergy FM 4P 63A	67	63	65	61	63	58	61	56	58	53	56	■
Quick device feeders Linergy FM 4P 80A	86	80	83	77	80	74	77	71	74	68	71	■
Quick device feeders Linergy FM 4P 160A	171	160	166	154	160	148	154	142	148	135	142	■
Quick device feeders Linergy FM 2P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 3P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 4P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 4P 200A (36 modules)	214	200	207	193	200	185	193	177	185	169	177	■




■ Check the concordance between Linergy derating value and upstream protection device derating value.

# Linergy TR

## Terminal blocks

## Secondary distribution



			Connection technology			
Type of terminal block	Cross section area	Color	Screw tech 	Spring tech 	Push-in tech 	Miniature screw for 15 mm DIN rail
Passthrough	2.5 mm <sup>2</sup> (2 pts)	Grey	NSYTRV22	NSYTRR22	NSYTRP22	NSYTRV22M
		Blue	NSYTRV22BL	NSYTRR22BL	NSYTRP22BL	NSYTRV22MBL
		Orange	NSYTRV22AR	–	NSYTRP22AR	–
	2.5 mm <sup>2</sup> (3 pts)	Grey	–	NSYTRR23	NSYTRP23	–
		Blue	–	NSYTRR23BL	NSYTRP23BL	–
		Orange	–	–	NSYTRP23AR	–
	2.5 mm <sup>2</sup> (4 pts)	Grey	–	NSYTRR24	NSYTRP24	–
		Blue	–	NSYTRR24BL	NSYTRP24BL	–
	2.5 mm <sup>2</sup> (4 pts, 2 levels)	Grey	NSYTRV24D	NSYTRR24D	NSYTRP24D	–
		Blue	NSYTRV24DBL	–	NSYTRP24DBL	–
	2.5 mm <sup>2</sup> (6 pts, 3 levels)	Grey	NSYTRV26T	NSYTRR26T	NSYTRP26T	–
		Blue	–	–	–	–
	4 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42	NSYTRR42	NSYTRP42	NSYTRV42M
		Blue	NSYTRV42BL	NSYTRR42BL	NSYTRP42BL	NSYTRV42MBL
		Orange	NSYTRV42AR	–	–	–
	4 mm <sup>2</sup> (3 pts)	Grey	NSYTRV43	NSYTRR43	NSYTRP43	–
		Blue	NSYTRV43BL	–	NSYTRP43BL	–
	4 mm <sup>2</sup> (4 pts)	Grey	NSYTRV44	NSYTRR44	NSYTRP44	–
		Blue	NSYTRV44BL	–	NSYTRP44BL	–
	4 mm <sup>2</sup> (4 pts, 2 levels)	Grey	NSYTRV44D	NSYTRR44D	NSYTRP44D	–
		Blue	NSYTRV44DBL	NSYTRR44DBL	NSYTRP44DBL	–
	6 mm <sup>2</sup> (2 pts)	Grey	NSYTRV62	NSYTRR62	NSYTRP62	–
		Blue	NSYTRV62BL	NSYTRR62BL	NSYTRP62BL	–
	6 mm <sup>2</sup> (3 pts)	Grey	–	–	NSYTRP63	–
Blue		–	–	–	–	
10 mm <sup>2</sup> (2 pts)	Grey	NSYTRV102	NSYTRR102	NSYTRP102	–	
	Blue	NSYTRV102BL	NSYTRR102BL	NSYTRP102BL	–	
16 mm <sup>2</sup> (2 pts)	Grey	NSYTRV162	NSYTRR162	NSYTRP162	–	
	Blue	NSYTRV162BL	NSYTRR162BL	NSYTRP162BL	–	
Earth protection	2.5 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV22PE	NSYTRR22PE	NSYTRP22PE	NSYTRV22MPE
	2.5 mm <sup>2</sup> (3 pts)	Green/Yellow	–	NSYTRR23PE	NSYTRP23PE	–
	2.5 mm <sup>2</sup> (4 pts)	Green/Yellow	–	NSYTRR24PE	NSYTRP24PE	–
	4 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV42PE	NSYTRR42PE	NSYTRP42PE	NSYTRV42MPE
	4 mm <sup>2</sup> (3 pts)	Green/Yellow	NSYTRV43PE	–	NSYTRP43PE	–
	4 mm <sup>2</sup> (4 pts)	Green/Yellow	NSYTRV44PE	NSYTRR44PE	NSYTRP44PE	–
	4 mm <sup>2</sup> (4 pts, 2 levels)	Green/Yellow	–	–	NSYTRP44DPE	–
	6 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV62PE	NSYTRR62PE	NSYTRP62PE	–
	10 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV102PE	NSYTRR102PE	NSYTRP102PE	–
	16 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV162PE	NSYTRR162PE	NSYTRP162PE	–
Knife Disconnect	2.5 mm <sup>2</sup> (2 pts)	Grey	NSYTRV22SC	NSYTRR22SC	NSYTRP22SC	–
		Orange	NSYTRV22ST <sup>(1)</sup>	–	–	–
	2.5 mm <sup>2</sup> (3 pts)	Grey	–	NSYTRR23SC	NSYTRP23SC	–
		Orange	–	–	–	–
	2.5 mm <sup>2</sup> (2 levels)	Grey	–	–	–	–
Fuse Disconnect	4 mm <sup>2</sup> (2 pts)	Black	NSYTRV42SF5	–	–	–
	5 x 20 mm fuse	Black (12 V)	NSYTRV42SF5LD <sup>(2)</sup>	–	–	–
		Black (230 V)	NSYTRV42SF5LA <sup>(2)</sup>	–	–	–
Basic Disconnect <sup>(3)</sup>	4 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42TB	–	NSYTRP42TB	–
	2.5 mm <sup>2</sup> (2 pts)	Grey	–	–	NSYTRP23TB	–
Measuring transducer	6 mm <sup>2</sup> (2 pts) Disconnect	Grey	NSYTRV62TTD	–	–	–
		Grey	NSYTRV62TT	–	–	–
	6 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV62TTPE	–	–	–

\* Grey terminal with flange.

<sup>(1)</sup> Grey disconnect terminal with 2 test points.<sup>(2)</sup> With light indicator.<sup>(3)</sup> Fuse or component carrier not supplied.

Linergy TR  
Terminal blocks

Secondary distribution



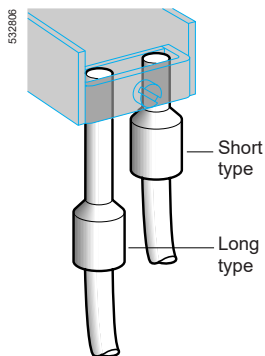
Accessories					
	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters
	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22	NSYTRABF510
	NSYTRAC22BL	-	-	NSYTRAL23	NSYTRABF520
	-	-	-	NSYTRAL24	NSYTRABF530
	NSYTRAC23	NSYTRACR23	NSYTRACR23	NSYTRAL25	NSYTRABF540
	-	-	-	NSYTRAL210	NSYTRABF550
	-	-	-	NSYTRAL210BL	
	NSYTRAC24	NSYTRACR24	NSYTRACR24	NSYTRAL210GR	
	-	-	-	NSYTRAL220	
	NSYTRAC24	NSYTRACRE24	NSYTRACRE24		
	-	-	-		
	NSYTRAC26	-	NSYTRACPE26		
	-	-	-		
	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42	NSYTRAB610
	NSYTRAC22BL	-	-	NSYTRAL43	NSYTRAB620
	-	-	-	NSYTRAL44	NSYTRAB630
	NSYTRAC23	NSYTRACR43	NSYTRACP43	NSYTRAL45	NSYTRAB640
	-	-	-	NSYTRAL410	NSYTRAB690
	NSYTRAC24	NSYTRACR44	NSYTRACP44	NSYTRAL410BL	NSYTRAB6100
	-	-	-	NSYTRAL410GR	NSYTRAB61100
	NSYTRAC24	NSYTRACRE44	NSYTRACPE44	NSYTRAL420	
	-	-	-		
	NSYTRAC22	NSYTRACR62	NSYTRACP62	NSYTRAL62	
	NSYTRAC22BL	-	-		
	-	-	NSYTRACP63		
	-	-	-		
	NSYTRAC22	NSYTRACR102	NSYTRACP102	NSYTRAL102	
	NSYTRAC22BL	-	-		
	NSYTRAC162	NSYTRACR162	NSYTRACP162	NSYTRAL162	
	-	-	-		
	NSYTRAC22	NSYTRACR22	NSYTRACR22		
	NSYTRAC23	NSYTRACR23	NSYTRACR23		
	NSYTRAC24	NSYTRACR24	NSYTRACR24		
	NSYTRAC22	NSYTRACR42	NSYTRACR42		
	NSYTRAC23	NSYTRACR43	NSYTRACP43		
	NSYTRAC24	NSYTRACR44	NSYTRACP44		
	-	-	NSYTRACPE44		
	NSYTRAC22	NSYTRACR62	NSYTRACP62		
	NSYTRAC22	NSYTRACR102	NSYTRACP102		
	NSYTRAC162	NSYTRACR162	NSYTRACP162		
	NSYTRAC23	NSYTRACR23	NSYTRACPK22		
	NSYTRAC23	-	-		
	-	NSYTRACR24	NSYTRACPK23		
	-	-	-		
	-	Included	-		
	Included	-	-		
	Included	-	-		
	Included	-	-		
	Included	Included	NSYTRACR42		
	-	-	NSYTRACPK23		
	NSYTRACT22	-	-		
	NSYTRACT22	-	-		
	NSYTRACT22	-	-		



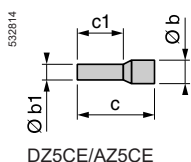
# Linergy cable ends

## Mounting and cabling accessories

Conforming to standard NF C 63-023 or DIN 46228-4



DZ5CE



DZ5CE/AZ5CE



AZ5CE●●●

Single conductor cable ends (Packed in individual bags or strings of bags)											
Conductor c.s.a.		Type	Dimensions				Sold in lots of	Unit reference NF C 63-023		Unit reference DIN 46228-4	
mm <sup>2</sup>	AWG		Ø b	Ø b1	c	c1		Reference	color	Reference	color
0.25	26	Short	2.3	1.1	10	6	10 x 100	DZ5CE002L6	Yellow		
		Medium	2.3	1.1	12	8	10 x 100	DZ5CE002			
0.34	24	Short	2.5	1.1	10	6	10 x 100	DZ5CE003L6	Green		
		Medium	2.5	1.1	12	8	10 x 100	DZ5CE003			
0.5	22	Short	3.1	1.3	12	6	10 x 100	DZ5CE005L6 <sup>(1)</sup>	White	-	-
		Medium	3.1	1.3	14	8	10 x 100	DZ5CE005 <sup>(1)</sup>			
		-	-	-	-	-	-	-			
0.75	20	Short	3.3	1.5	12	6	10 x 100	DZ5CE007L6 <sup>(1)</sup>	Blue	-	-
		Medium	3.3	1.5	14	8	10 x 100	DZ5CE007 <sup>(1)</sup>			
1	18	Short	3.5	1.7	12	6	10 x 100	DZ5CE010L6 <sup>(1)</sup>	Red	-	-
		Medium	3.5	1.7	14	8	10 x 100	DZ5CE010 <sup>(1)</sup>			
		Long	3.5	1.7	18	12	10 x 100	DZ5CE010L12 <sup>(1)</sup>			
1.5	16	Short	4	2	12	6	10 x 100	DZ5CE015L6 <sup>(1)</sup>	Black	-	-
		Medium	4	2	14	8	10 x 100	DZ5CE015 <sup>(1)</sup>			
		Long	4	2	24	18	10 x 100	DZ5CE0153 <sup>(1)</sup>			
2	14	Medium	4.2	2.2	14	8	10 x 100	DZ5CE020	Yellow	-	-
2.5	14	Medium	4.7	2.5	14	8	10 x 100	DZ5CE025 <sup>(1)</sup>	Grey	-	-
		Long	4.7	2.5	24	18	10 x 100	DZ5CE0253 <sup>(1)</sup>			
4	12	Medium	5.4	3.2	17	10	10 x 100	DZ5CE042 <sup>(1)</sup>	Orange	-	-
		Long	5.4	3.2	26	18	10 x 100	DZ5CE043 <sup>(1)</sup>			
6	10	Medium	6.9	3.9	20	12	1 x 100	DZ5CE062 <sup>(1)</sup>	Green	-	-
		Long	6.9	3.9	26	18	1 x 100	DZ5CE063 <sup>(1)</sup>			
10	8	Medium	8.4	4.9	22	12	1 x 100	DZ5CE102 <sup>(1)</sup>	Brown	-	-
		Long	8.4	4.9	28	18	1 x 100	DZ5CE103 <sup>(1)</sup>			
16	6	Medium	9.6	6.2	24	12	1 x 100	DZ5CE162 <sup>(1)</sup>	White	-	-
		Long	9.6	6.2	28	18	1 x 100	DZ5CE163 <sup>(1)</sup>			
25	4	Medium	12	7.7	30	18	1 x 50	DZ5CE252 <sup>(1)</sup>	Black	-	-
		Long	12	7.7	36	22	1 x 50	DZ5CE253 <sup>(1)</sup>			
35	2	Medium	13.5	8.7	30	16	1 x 50	DZ5CE352 <sup>(1)</sup>	Red	-	-
		Long	13.5	8.7	39	25	1 x 50	DZ5CE353 <sup>(1)</sup>			
50	0	Medium	16	11	36	20	1 x 50	DZ5CE502 <sup>(1)</sup>	Blue	-	Blue

Single conductor cable ends (Packed in dispenser pack)											
0.5	22	Medium	3.1	1.3	14	8	5 x 200	AZ5CE005 <sup>(1)</sup>	White	AZ5CE005D <sup>(1)</sup>	White
0.75	20	Medium	3.3	1.5	14	8	5 x 200	AZ5CE007 <sup>(1)</sup>	Blue	AZ5CE007D <sup>(1)</sup>	Grey
1	18	Medium	3.5	1.7	14	8	5 x 200	AZ5CE010 <sup>(1)</sup>	Red	AZ5CE010D <sup>(1)</sup>	Red
1.5	16	Medium	4	2	14	8	5 x 200	AZ5CE015 <sup>(1)</sup>	Black	AZ5CE015D <sup>(1)</sup>	Black
2.5	14	Medium	4.7	2.5	14	8	5 x 200	AZ5CE025 <sup>(1)</sup>	Grey	AZ5CE025D <sup>(1)</sup>	Blue

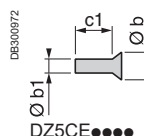
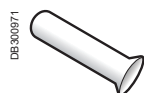
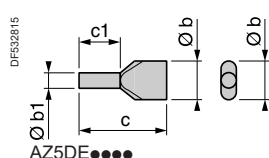
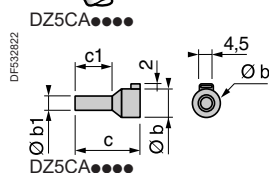
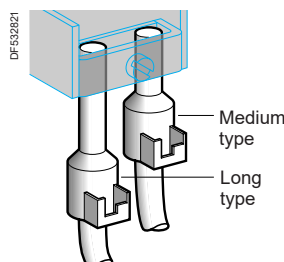
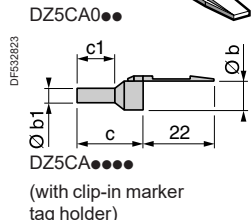
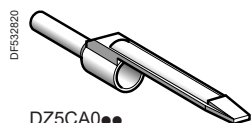
Single conductor cable ends (Strips of 50 packed in bag)											
0.5	22	Medium	3.1	1.3	14	8	10 x 50	DZ5CEB005 <sup>(1)</sup>	White	DZ5CEB005D <sup>(1)</sup>	White
0.75	20	Medium	3.3	1.5	14	8	10 x 50	DZ5CEB007 <sup>(1)</sup>	Blue	DZ5CEB007D <sup>(1)</sup>	Grey
1	18	Medium	3.5	1.7	14	8	10 x 50	DZ5CEB010 <sup>(1)</sup>	Red	DZ5CEB010D <sup>(1)</sup>	Red
1.5	16	Medium	4	2	14	8	10 x 50	DZ5CEB015 <sup>(1)</sup>	Black	DZ5CEB015D <sup>(1)</sup>	Black
2.5	14	Medium	4.7	2.5	14	8	10 x 50	DZ5CEB025 <sup>(1)</sup>	Grey	DZ5CEB025D <sup>(1)</sup>	Blue

(1) UL certified products.

# Linergy cable ends

## Mounting and cabling accessories

Conforming to standard NF C 63-023 or DIN 46228-4



### Single conductor markable cable ends (Packed in strings of bags)

Conductor c.s.a.		Type	Dimensions				Sold in lots of	Unit reference NF C 63-023		Unit reference DIN 46228-4	
mm <sup>2</sup>	AWG		Ø b	Ø b1	c	c1		Reference	color	Reference	color
0.25	26	Medium	2.3	1.1	12	8	10 x 100	DZ5CA002	Yellow		
0.34	24	Medium	2.5	1.1	12	8	10 x 100	DZ5CA003	Green		
0.5	22	Medium	3.1	1.3	14	8	10 x 100	DZ5CA005 <sup>(1)</sup>	White	DZ5CA005D <sup>(1)</sup>	White
0.75	20	Medium	3.3	1.5	14	8	10 x 100	DZ5CA007 <sup>(1)</sup>	Blue	DZ5CA007D <sup>(1)</sup>	Grey
1	18	Medium	3.5	1.7	14	8	10 x 100	DZ5CA010 <sup>(1)</sup>	Red	DZ5CA010D <sup>(1)</sup>	Red
1.5	16	Medium	4	2	14	8	10 x 100	DZ5CA015 <sup>(1)</sup>	Black	DZ5CA015D <sup>(1)</sup>	Black
2.5	14	Medium	4.7	2.5	14	8	10 x 100	DZ5CA025 <sup>(1)</sup>	Grey	DZ5CA025D <sup>(1)</sup>	Blue

### Single conductor cable ends with facility for clip-in marker tag holder

4	12	Medium	5.4	3.2	20	12	10 x 100	DZ5CA042 <sup>(1)</sup>	Orange	DZ5CA042D <sup>(1)</sup>	Grey
		Long	5.4	3.2	26	18	10 x 100	DZ5CA043 <sup>(1)</sup>		-	
6	10	Medium	6.9	3.9	20	12	1 x 100	DZ5CA062	Green	DZ5CA062D	Yellow
		Long	6.9	3.9	26	18	1 x 100	DZ5CA063		-	
10	8	Medium	8.4	4.9	22	12	1 x 100	DZ5CA102	Brown	DZ5CA102D	Red
		Long	8.4	4.9	28	18	1 x 100	DZ5CA103		-	
16	6	Medium	9.6	6.2	24	12	1 x 100	DZ5CA162	White	DZ5CA162D	Blue
		Long	9.6	6.2	28	18	1 x 100	DZ5CA163		-	
25	4	Medium	12	7.7	30	18	1 x 100	DZ5CA253	Black	DZ5CA253D	Yellow
		Long	13.5	8.7	30	16	1 x 20	DZ5CA352		-	
35	2	Medium	13.5	8.7	30	16	1 x 20	DZ5CA352	Red	DZ5CA352D	Red
		Long	13.5	8.7	39	25	1 x 20	DZ5CA353		-	
50	0	Medium	16	11	36	20	1 x 20	DZ5CA502	Blue	DZ5CA502D	Blue
		Long	16	11	40	25	1 x 20	DZ5CA503		-	

### Twin conductor cable ends (in dispenser pack)

2 x 0.75	20	Medium	2.8 x 5	2	15	8	5 x 100	AZ5DE007 <sup>(2)</sup>	Blue	AZ5DE007D <sup>(1)</sup>	Grey
2 x 1	18	Medium	3.4 x 5.4	2.25	15	8	5 x 100	AZ5DE010 <sup>(2)</sup>	Red	AZ5DE010D <sup>(1)</sup>	Red
2 x 1.5	16	Medium	3.6 x 6.6	2.5	15	8	5 x 100	AZ5DE015 <sup>(2)</sup>	Black	AZ5DE015D <sup>(1)</sup>	Black
2 x 2.5	14	Medium	4.2 x 7.8	3.2	18.5	10	5 x 50	AZ5DE025 <sup>(2)</sup>	Grey	AZ5DE025D <sup>(1)</sup>	Blue

### Twin conductor cable ends (packed in 1 plastic bag)

2 x 0.5	22	Medium	2.5 x 4.7	1.7	15	8	1 x 1000	AZ5DE005 <sup>(2)</sup>	White		
2 x 0.75	20	Medium	2.8 x 5	2	15	8	1 x 1000	AZ5DE007 <sup>(2)</sup>	Blue		
2 x 1	18	Medium	3.4 x 5.4	2.25	15	8	1 x 1000	AZ5DE010 <sup>(2)</sup>	Red		
2 x 1.5	16	Medium	3.6 x 6.6	2.5	15	8	1 x 1000	AZ5DE015 <sup>(2)</sup>	Black		
2 x 2.5	14	Medium	4.2 x 7.8	3.2	18.5	10	1 x 500	AZ5DE025 <sup>(2)</sup>	Grey		

### Single conductor uninsulated cable ends

Conductor c.s.a.		Type	Dimensions				Sold in lots of	Unit reference DIN 46228-1	
mm <sup>2</sup>	AWG		Ø b	Ø b1	c	c1		Reference	
0.75	20	Medium	2.3	1.2	--	8	10 x 100	DZ5CE007N	
1	18	Medium	2.5	1.4	--	8	10 x 100	DZ5CE010N	
1.5	16	Medium	2.8	1.7	--	8	10 x 100	DZ5CE015N	
2.5	14	Medium	3.4	2.2	--	10	10 x 100	DZ5CE025N	
4	12	Medium	4	2.8	--	12	1 x 100	DZ5CE040	
		Long	4.7	3.5	--	18	1 x 100	DZ5CE060L	
10	8	Medium	5.8	4.5	--	18	1 x 100	DZ5CE100	
16	6	Medium	7.5	5.8	--	18	1 x 100	DZ5CE160	

(1) UL certified products.

(2) cCSAs certified products.

# Functional Partitioning

Main distribution

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<b>Forms partitioning</b>	
Presentation	C-92
<b>Partitioning</b>	<b>C-93</b>
<b>Other partitions</b>	<b>C-97</b>

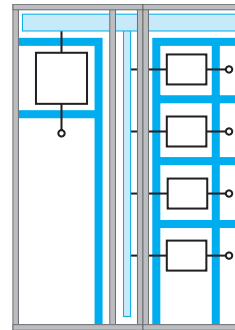
# Forms partitioning

## Presentation

### What are the forms?

- The forms are metal partitions or molded material, removable by using tools or keys, which ensure the protection of operators against direct contact with power conductors when working on low voltage switchboards.
- They also protect internal elements of the switchboard against external aggressions (dust, pests, water ...).
- These forms are graduated from 1 to 4, with indices "a" or "b". Their use contributes to the level of service continuity required by the user.
- Forms have a cumulative effect (a higher form integrates the characteristics of the forms that precede it).
- The choice of a form is the subject to an agreement between the manufacturer and the user.
- The electrical panel must comply with the degree of protection IP 2X, according to standard IEC 61439-1 & 2.

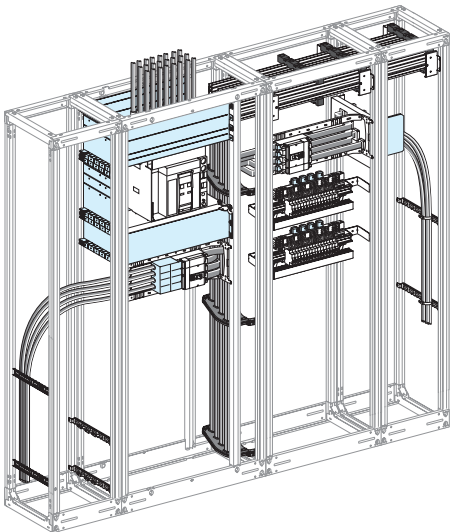
Form 4b



PrismaSeT P 690 V AC requires Form 4b.

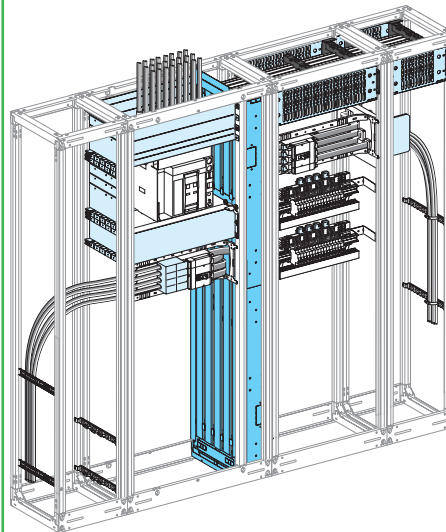
Form 1

No internal separation



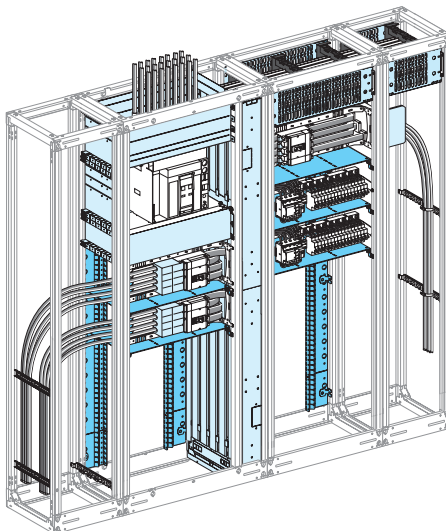
Form 2

Separation between horizontal busbars, vertical busbars, and functional units



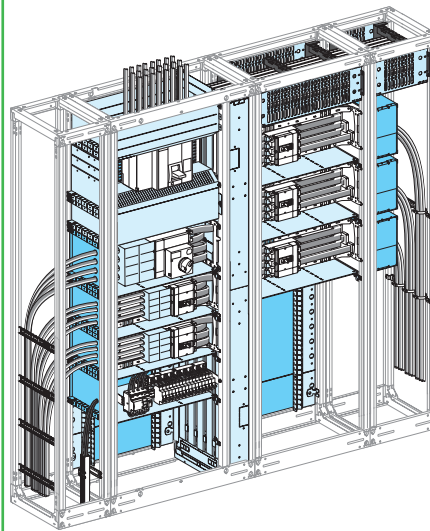
Form 3

Form 2 + separation of functional units from one another



Form 4

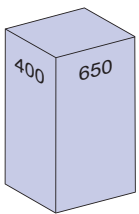
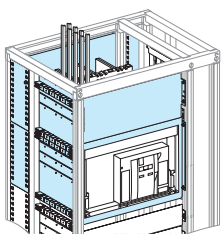
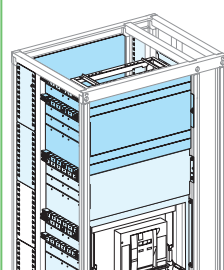
Form 3 + separation of the terminals of the functional units from one another



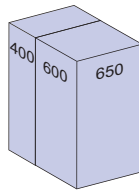
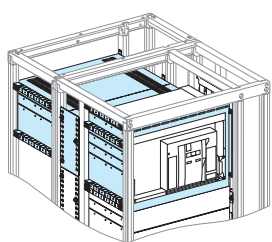
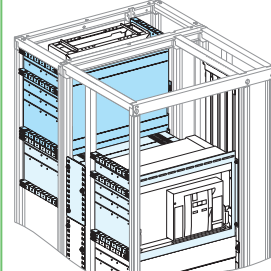
# Partitioning

Covering the supply terminals on the incoming device

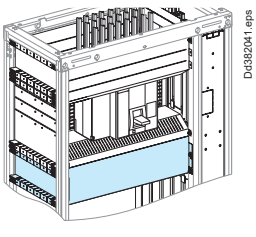
Main distribution

	Front connection with cables	Canalis front connection
 <p>MTZ2 Only</p>	 <p>Dat382019.eps</p>	 <p>Dat382020.eps</p>
<b>Devices</b>	Withdrawable device <b>MasterPact MTZ2</b>	Withdrawable device <b>MasterPact MTZ2</b>
Cover	<b>LVS04861</b>	<b>LVS04861</b>
Canalis additional cover	-	<b>LVS04871</b>



	Rear connection with cables	Canalis rear connection
 <p>MTZ2 Only</p>	 <p>Dat382021.eps</p>	 <p>Dat382022.eps</p>
<b>Devices</b>	Withdrawable device <b>MasterPact MTZ2</b>	Withdrawable device <b>MasterPact MTZ2</b>
Cover	<b>LVS04863</b>	<b>LVS04863</b>
Canalis additional cover	-	<b>LVS04871</b>

## Covering of the connection between an incoming device and lateral busbars

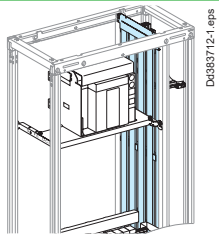
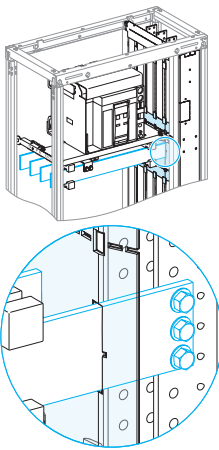
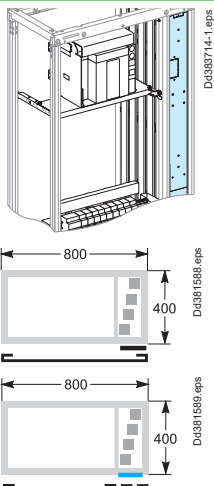
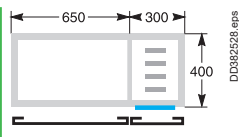
	 <p>Dat382041.eps</p>
	<b>MasterPact MTZ2</b>
Cover with copper connection	<b>LVS04926</b>
Additional cover	<b>LVS04927</b>
Cover with Linergy LGYE connection	<b>LVS04925</b>
Additional cover	<b>LVS04928</b>
Form partition depth	<b>600</b>

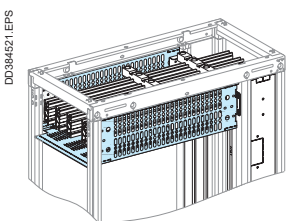
**Note:** Cubicle depth based on the depth of the incoming device.

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
<b>Characteristics</b>	<ul style="list-style-type: none"> <li>■ Vertical barrier made of insulating slats.</li> <li>■ Can be installed on both sides of Linergy BS or Linergy LGY busbars.</li> <li>■ 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 mm<sup>2</sup>, while maintaining the degree of protection IP2X.</li> </ul>	<ul style="list-style-type: none"> <li>■ This kit enables passage of the connection between a device &gt; 1600 A (MTZ2, INS-INV) and lateral vertical busbars.</li> <li>■ 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.</li> <li>■ Has to be used with MTZ2 interlocking mounting plate.</li> </ul>	<p>Can be installed in the front and rear of the busbar compartment. Protects against direct contact with the busbars.</p> <ul style="list-style-type: none"> <li>■ For 800 mm cubicles:                             <ul style="list-style-type: none"> <li>□ The door is systematically supplied with a barrier.</li> <li>□ The cover frame is supplied with a wicket door, W = 150 mm, on which devices can be mounted. A front barrier is indispensable.</li> </ul> </li> <li>■ A barrier is required at the rear of the busbar compartment in cubicles that are 600, 800, and 1000 mm deep.</li> </ul>	
<b>Catalog number</b>	LVS04922	LVS04924	LVS04921	LVS04920



Horizontal partitioning

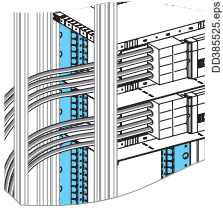
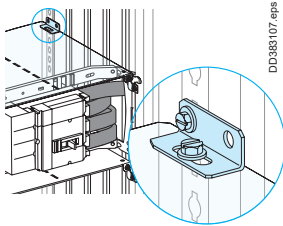
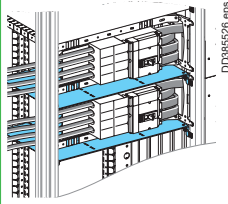
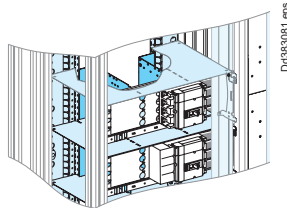
- Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.
- The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.
- The space required for the busbars is not increased.

Linergy LGYE			
Top position			
In		≤ 2500 A	≥ 3200 A
Nb of module		3	4
<b>D400</b>			
Cover	W = 300	LVS04973	LVS04963
	W = 400	LVS04974	LVS04964
	W650	LVS04976	LVS04966
	W650 + 150	LVS04976	LVS04966
	W800	LVS04978	LVS04968
<b>D600</b>			
Cover	W = 300	LVS04983	LVS04963
	W = 400	LVS04984	LVS04964
	W650	LVS04986	LVS04966
	W650 + 150	LVS04986	LVS04966
	W800	LVS04988	LVS04968

**Note:** When the busbars are at the bottom of the cubicle, gland plates are mandatory > page C-57.

**Note:** To protect horizontal busbars installed at the bottom of the cubicle, the slotted horizontal panel must be replaced by a plain barrier.(LVS04915 or LVS04919) and add a free support LVS04662.

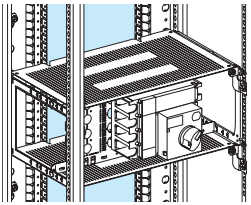
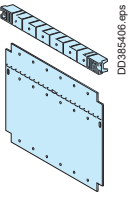
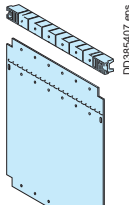
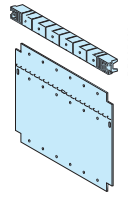
Main distribution

	Front connection			Rear connection	
					
	<b>Rear support for partitions W = 650 mm</b>	<b>6 universal angle brackets</b>	<b>Horizontal metal partition W = 650 mm</b>	<b>Rear connection</b>	
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)	
Catalog numbers	<b>LVS04943</b>	<b>LVS03583</b>	<b>LVS04901</b>	<b>LVS04955</b>	<b>LVS04956</b>

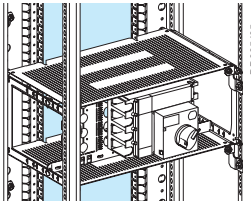
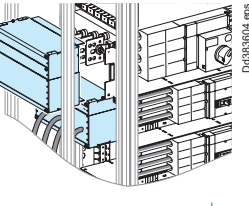
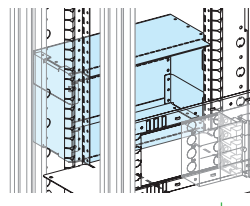
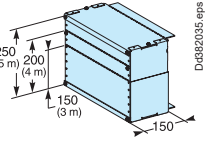
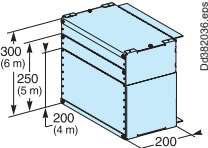
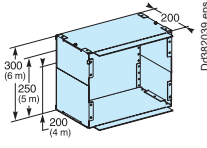
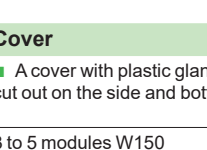
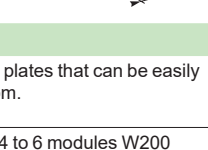
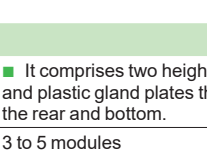


Main distribution

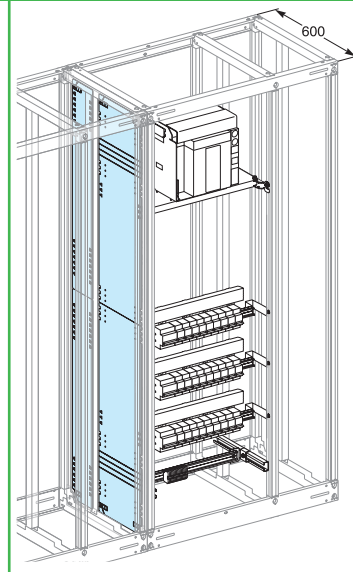
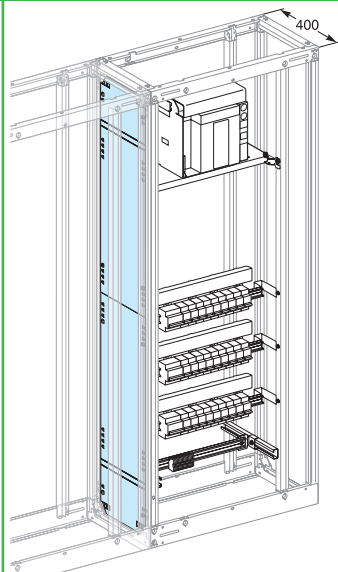
Direct connection to the device

	Front connection		Rear connection	
				
	<b>Backplate</b>	<b>Gland plate</b>		
Characteristics	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>A plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.</li> </ul>		<ul style="list-style-type: none"> <li>A gland plate at the rear of each functional unit. It is connected directly to the rear supports for Form 3 partitions.</li> </ul>
		3 to 4 modules	5 to 6 modules	
Catalog numbers	LVS04946	LVS04951	LVS04952	LVS04951 LVS04952

Connection transfer

	In a lateral compartment	At the rear of the cubicle		
				
				
				
	<b>Backplate</b>	<b>Cover</b>		
Characteristics	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>A cover with plastic gland plates that can be easily cut out on the side and bottom.</li> </ul>		<ul style="list-style-type: none"> <li>It comprises two height-adjustable metal flanges and plastic gland plates that can be easily cut out at the rear and bottom.</li> </ul>
		3 to 5 modules W150	4 to 6 modules W200	
Catalog numbers	LVS04946	LVS04953	LVS04954	LVS04953 LVS04954

Inter-cubicle partition



**D400**

**D600**

<p>Characteristics</p>	<ul style="list-style-type: none"> <li>■ Metal partition, used to separate two adjacent cubicles.</li> <li>■ It is made up of two panels, each 850 mm high.</li> <li>■ The top and bottom ends have knock-outs for busbars, PE/PEN conductors or auxiliary wiring.</li> <li>■ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.</li> </ul>
<p>Catalog numbers</p>	<p>LVS04911</p>



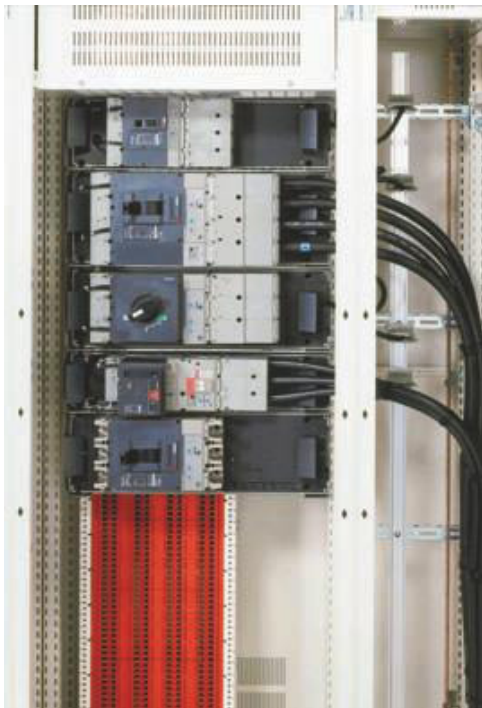
# Disconnectable on Polyfast

# Contents

Electrical-distribution switchboards	C-100
Presentation of vertical busbars with clamp connections	C-101
Selection of vertical busbars with clamp connections	C-102
ComPacT NSX100/630	C-104



These electrical-distribution switchboards are designed to contain a set of disconnectable functional units. The feeders, made up of three or four-pole ComPacT NSX circuit breakers up to 630 A or Multi9 devices, are installed on disconnectable mounting plates and directly connected to vertical busbars via clamps. Upgrades or maintenance can be carried out by qualified personnel with the switchboard energised, thus ensuring true continuity of service at all times. The disconnectable mounting plates can be installed in a cubicle 650 mm wide and 600 mm deep, perfectly compatible with all standard PrismaSeT P disconnectable cubicles. The vertical capacity is 30 modules, each 50 mm high.

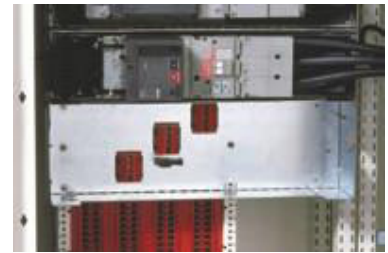


### Optimised device density in cubicles

The height of the disconnectable mounting plates is perfectly suited to the volume of three-pole and four-pole devices. Integration of the control wires within the volume of the functional units ensures very compact switchboards.

### Easy to set up

The disconnectable mounting plates can be easily installed from the front. Direct connection via clamps is very easy. This system eliminates any intermediate connections and ensures high-quality electrical contacts.



Fixed part equipped with double-contact clamps.

### An electrical installation that remains available

Maintenance can be carried out by qualified personnel even with the switchboard energised, thus ensuring true continuity of service for the installation.



Auxiliary connection block in the connection compartment.

## Presentation of vertical busbars with clamp connections

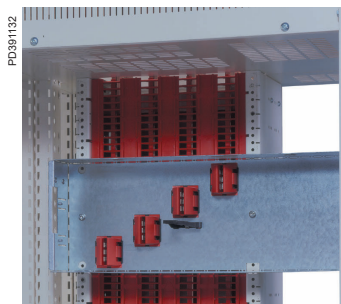
PrismaSeT P disconnectable electrical switchboards have a complete and consistent distribution system capable of supplying electrical energy where it is needed.

- Modern, high-performance busbars.
- Perfectly sized, prefabricated connections.
- Distribution blocks that blend perfectly with the devices.
- Direct supply to feeders on disconnectable mounting plates via clamps.

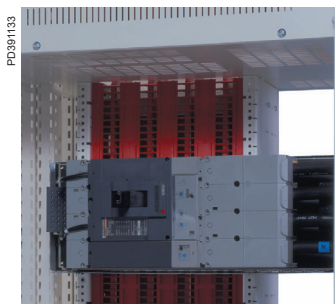
All components are put through rigorous tests with Schneider Electric devices to ensure that the resulting switchboards are dependable and comply with international standard IEC 61439-1.



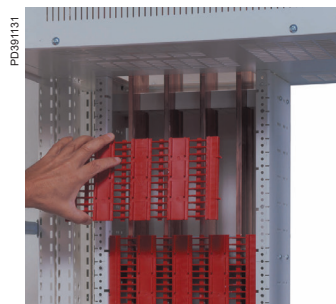
Rear vertical busbars with clamp connections.



Fixed part equipped with double-contact clamps.



NSX400 disconnectable mounting plate for electrical distribution.



Fully insulated horizontal and vertical busbars.

## Calculation of busbars

Permissible current for switchboards		Number of bars/phase	Number of supports for Icw (kA rms/1 s)		
IP ≤ 31	IP > 31		50	70	85
1200	1050	1 bar, 50 x 10 mm	6		
1750	1530	1 bar, 80 x 10 mm			
2100	1840	1 bar, 100 x 10 mm		7	8

## Selection of busbars



### Busbar covers

#### Presentation

Set made up of:

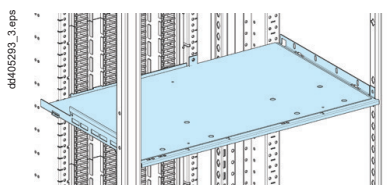
- 1 top plate
- 1 bottom plate with a stop to maintain the bars in position
- 2 side plates (1 left and 1 right) to which the bar supports are secured
- 1 rear plate
- 1 set of grilles for the front
- 1 cover for the horizontal busbars
- 2 busbar support lateral cross-members
- Height: 6 modules

#### Cat. no. selection

Designation	Cat. no.
Rear busbar cover for cubicle D = 600 mm	88002

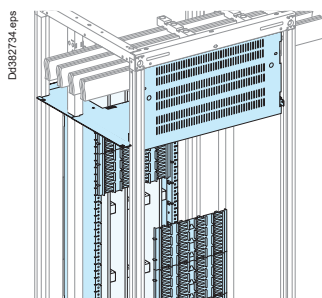
### Case and space cover

Designation	Cat. no.
FU horizontal partition	87401

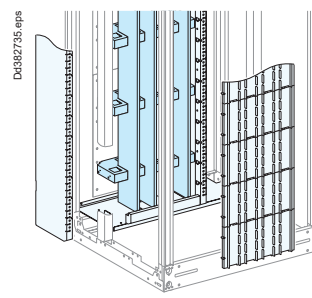


### Busbar supports

Designation	Cat. no.
1 support for 50 x 10 mm bars	88005
1 support for 80 x 10 mm bars	88006
1 support for 100 x 10 mm bars	88006

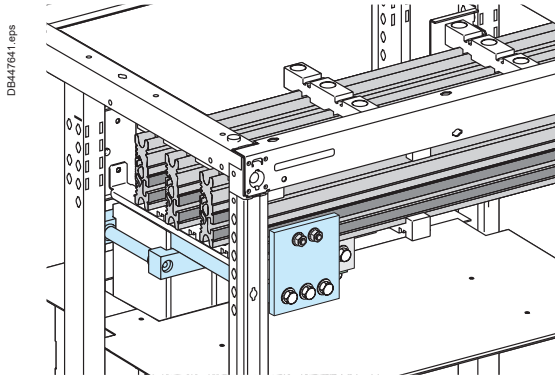


Busbar covers



Bars and supports

### Calculation of busbars

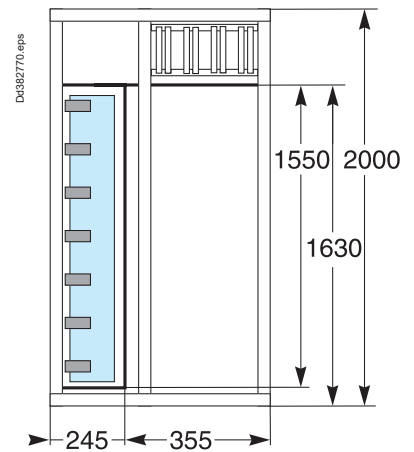
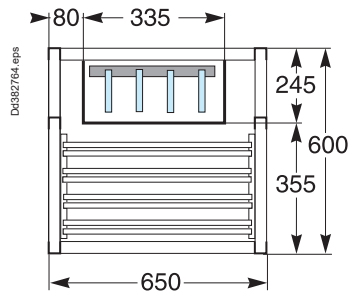


#### Flat busbars, L = 2000 mm

Connection between horizontal and vertical busbars	Catalog number
<b>For horizontal busbars width ≤ 80 mm</b>	
Vertical busbars ≤ 1200 A	3P <b>88007</b>
	4P <b>88008</b>
Vertical busbars > 1200 A	3P <b>88014</b>
	4P <b>88015</b>
<b>For horizontal busbars width = 100 mm</b>	
Vertical busbars ≤ 1200 A	3P <b>88007</b>
	4P <b>88008</b>
Vertical busbars > 1200 A	3P <b>88014</b>
	4P <b>88015</b>



#### Busbar dimensions



# ComPacT NSX100/630

## Toggle

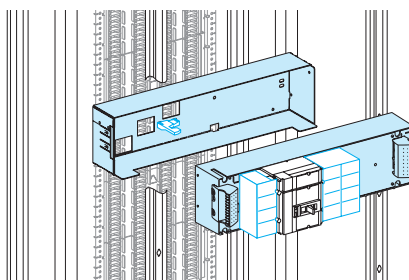
### Device installation



**Note:** For measurements, the current transformers are installed in the cable compartment.

Device	No. of 50 mm modules <sup>(1)</sup>	Disconnectable mounting plates		Terminal shields		Safety trip for advanced opening	
		Fixed part	Moving part	Upstream (short terminal shields)	Downstream (long terminal shields)		
<b>ComPacT NSX100/630</b>							
NSX100/250	3P	2, 5	<b>88010</b>	<b>88020</b>	<b>LV429515</b>	<b>LV429517</b>	<b>LV429270</b>
	4P	3	<b>88011</b>	<b>88021</b>	<b>LV429516</b>	<b>LV429518</b>	<b>LV429270</b>
NSX400/630	3P	3, 5	<b>88012</b>	<b>88022</b>	<b>LV432591</b>	<b>LV432593</b>	<b>LV432520</b>
	4P	4	<b>88013</b>	<b>88023</b>	<b>LV432592</b>	<b>LV432594</b>	<b>LV432520</b>
NSX400/630	Earth-leakage protection is provided by an external Vigirex type device with a toroid installed in the cable compartment.						

**(1)** Available capacity: 30 modules.

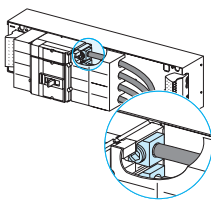


### Connection

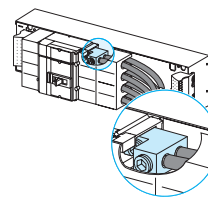
To connect the ComPacT NSX400/630 using cables with large cross-sectional areas (up to 300 mm<sup>2</sup>), use of the terminals below is recommended.

#### Terminals for copper and aluminium cables

For 1 cable from 35 to 300 mm <sup>2</sup>	Set of 3	<b>LV432479</b>
	Set of 4	<b>LV432480</b>
For 2 cables from 85 to 240 mm <sup>2</sup>	Set of 3	<b>LV432481</b>
	Set of 4	<b>LV432482</b>



LV432480



LV432482



# Additional Information

## Contents

## Spare parts

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<b>Electrical characteristics</b>		
	<b>Designing horizontal busbars</b>	
	Linergy LGYE	C-112
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	Linergy LGYE	C-113
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	Fixed MasterPact 08-32	C-115
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	Drawout MasterPact 08-32	C-117
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	<b>Dedicated cubicle</b>	
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	MasterPact 08-32 withdrawable	C-133
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	Drawout MasterPact 06-16	C-135
	<b>Designing connections between a device and busbars</b>	
	Dedicated cubicle - W = 400 mm	C-136

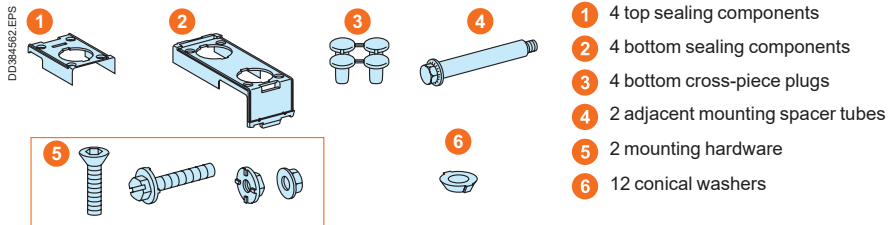
# After-sales accessories

## Spare parts

### Framework accessories

Framework accessories

LVS01104



### Front-plate accessories

10 sets of 2 grips quarter turn

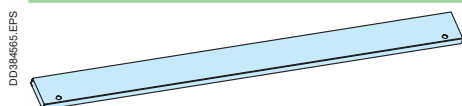
LVS01094



### Accessory

Plain wicket door, W = 150 mm

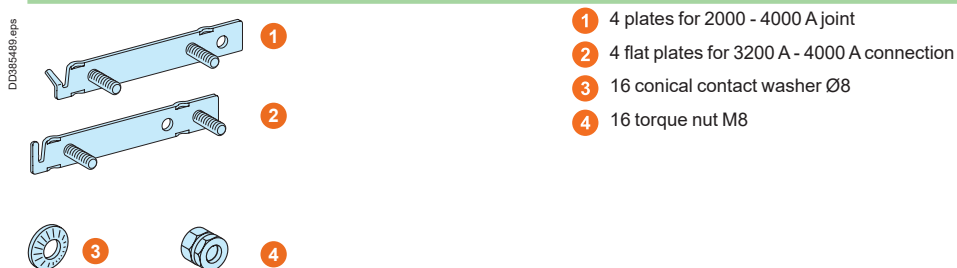
LVS01110



### Linergy LGYE busbar accessories

Linergy LGYE connection screwplate kit

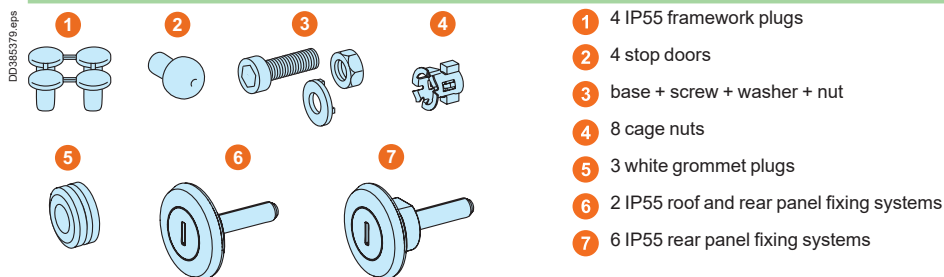
LVS01130



### Rear accessories

Accessories IP55


LVS01101



### Accessories for IP55 side panel LVS01102

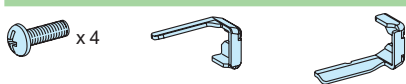
- DD384666.EPS
- 
- 1 16 fixing system IP55
  - 2 16 cage nuts

### Accessories for IP55 roof LVS01103

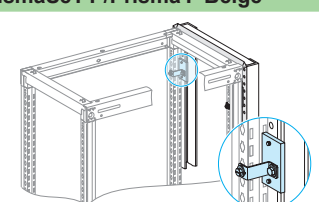
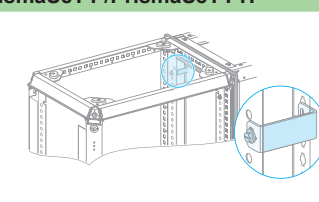
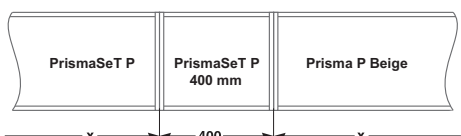
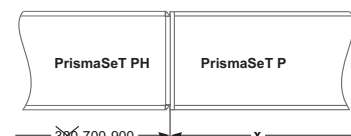
- DD385380.EPS
- 
- 1 4 lifting ring plugs
  - 2 6 cage nuts
  - 3 6 mounting sets of screw fixing IP55 for roof

### Front plate support frames

#### Front plate support striker kit for LVS08564 - LVS08566 LVS01123

- DD384571.EPS
- 
- x 4

### Side-by-side combination kit

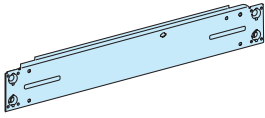
	PrismaSeT P/Prisma P Beige	PrismaSeT P/PrismaSeT PH
	<p>DD382926.EPS</p> 	<p>DD383847.EPS</p> 
Catalog number	LVS01199	LVS01198
Characteristics	<ul style="list-style-type: none"> <li>■ To add a PrismaSeT P cubicle to an existing Prisma P Beige installation, use the combination kit and a 400 mm wide frame.</li> </ul> <p>DD385279.EPS</p> 	<ul style="list-style-type: none"> <li>■ PrismaSeT PH/PrismaSeT P side-by-side combination kit</li> </ul> <p><b>Note:</b> When combining PrismaSeT PH and PrismaSeT P IP55 enclosures, use the IP55 sealing kit for side-by-side combinations (LVS08717) together with the side-by-side combination kit (LVS01198).</p> <p>DD385279.EPS</p> 

Spare parts

Framework accessories

Framework accessories

DD394572.EPS



Frame bottom cross-member W400 to use with LVS08564

LVS01119 <sup>(1)</sup>

Frame bottom cross-member W650 to use with LVS08566

LVS01120 <sup>(1)</sup>

Frame bottom cross-member W150+650 to use with LVS08566

LVS01121 <sup>(1)</sup>

Frame bottom cross-member W650+150 to use with LVS08566

LVS01122 <sup>(1)</sup>

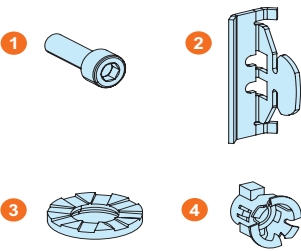
<sup>(1)</sup> Spare parts on stock in RAL 9003 only.

Door accessories

Reinforced door striker

LVS01114

DD435801.eps



1 4 screws MSC HXG SK M6 x 20

2 4 door strike stoppers

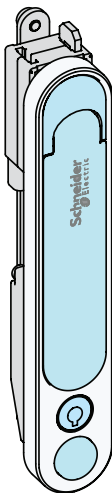
3 4 washers

4 4 captive nuts for frame

PrismaSeT P rotary handle spare parts

LVS01219

mz2131101\_1.eps



1 Handle housing block

2 P adapter link part

3 Screw, pan head, M5x8

4 The key of 405

5 1 crosshead screw

6 Omega fix part

7 Driver block

8 Hex locking screw, M6x10

9 Self tapping screw, pan head, ST3.5x15



# Designing horizontal busbars

## Linery LGYE

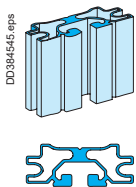
### Electrical characteristics

#### Permissible current and selection of Linery LGYE busbars Up to 3200 A

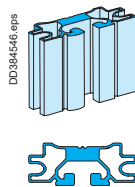
##### Linery LGYE section

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
Linery LGYE 630	680	580	650	550	630	530	590	500	550	470	520	■
Linery LGYE 800	860	740	830	710	800	680	750	630	700	600	660	■
Linery LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	■
Linery LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	■
Linery LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	■
Linery LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	■
Linery LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	■
Linery LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	■

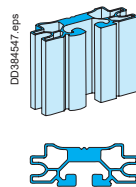
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



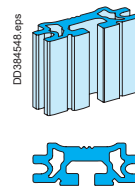
Section 630 A.  
Cat. No. LVS04560.



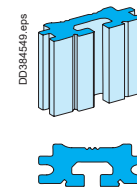
Section 800 A.  
Cat. No. LVS04561.



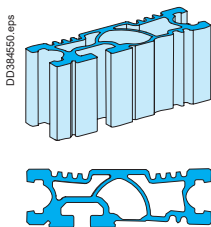
Section 1000 A.  
Cat. No. LVS04562.



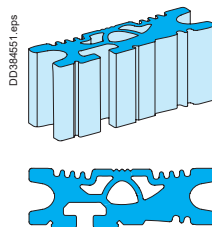
Section 1250 A.  
Cat. No. LVS04563.



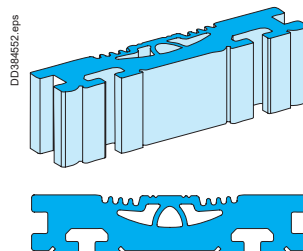
Section 1600 A.  
Cat. No. LVS04564.



Section 2000 A.  
Cat. No. LVS04565.



Section 2500 A.  
Cat. No. LVS04566.



Section 3200 A.  
Cat. No. LVS04567.

# Designing vertical busbars

## Linery LGYE

### Electrical characteristics

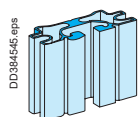
#### Permissible current and selection of Linery LGYE busbars

#### Up to 3200 A

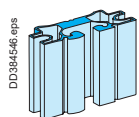
#### Linery LGYE section

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
Linery LGYE 630	680	580	650	550	630	530	590	500	550	470	520	■
Linery LGYE 800	860	740	830	710	800	680	750	630	700	600	660	■
Linery LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	■
Linery LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	■
Linery LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	■
Linery LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	■
Linery LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	■
Linery LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	■

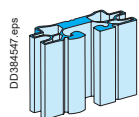
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



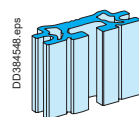
Section 630 A.  
Cat. No. LVS04560.



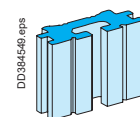
Section 800 A.  
Cat. No. LVS04561.



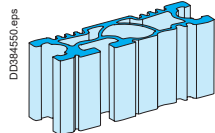
Section 1000 A.  
Cat. No. LVS04562.



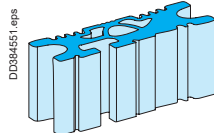
Section 1250 A.  
Cat. No. LVS04563.



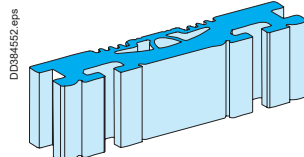
Section 1600 A.  
Cat. No. LVS04564.



Section 2000 A.  
Cat. No. LVS04565.



Section 2500 A.  
Cat. No. LVS04566.



Section 3200 A.  
Cat. No. LVS04567.

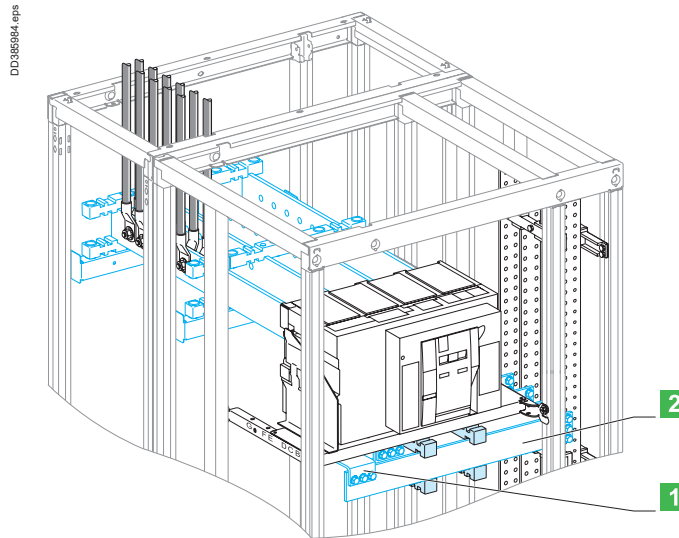
# Designing connections between a device and busbars

Fixed MasterPact 08-16

## Electrical characteristics

MasterPact MTZ2 08 to 16  
 MasterPact MTZ2 08 to 16  
 Fixed

Vertical busbars on the left or right  
 Linergy LGYE busbar  
 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 MTZ2 08/16, 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 <sup>(1)</sup>											
		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
MTZ2 08	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	
MTZ2 10	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)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	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	1250	1250	
MTZ2 16	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)	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
MTZ2 08	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	
MTZ2 10	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)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	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	1250	1250	
MTZ2 16	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)	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 PrismaSeT P switchboards.

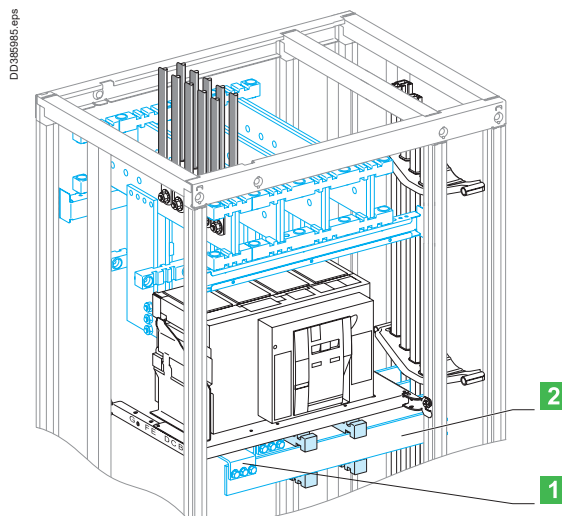
# Designing connections between a device and busbars

Fixed MasterPact 08-32

## Electrical characteristics

MasterPact MTZ2 08 to 32  
MasterPact MTZ2 08 to 32  
Fixed

Vertical busbars on the left or right  
Linergy LGYE busbar  
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 MTZ2 08/32, 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
MTZ2 08	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
MTZ2 10	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
MTZ2 12	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
MTZ2 16	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
MTZ2 20	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
MTZ2 25	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
MTZ2 32	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
MTZ2 08	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
MTZ2 10	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
MTZ2 12	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
MTZ2 16	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
MTZ2 20	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
MTZ2 25	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
MTZ2 32	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)	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 PrismaSeT P switchboards.

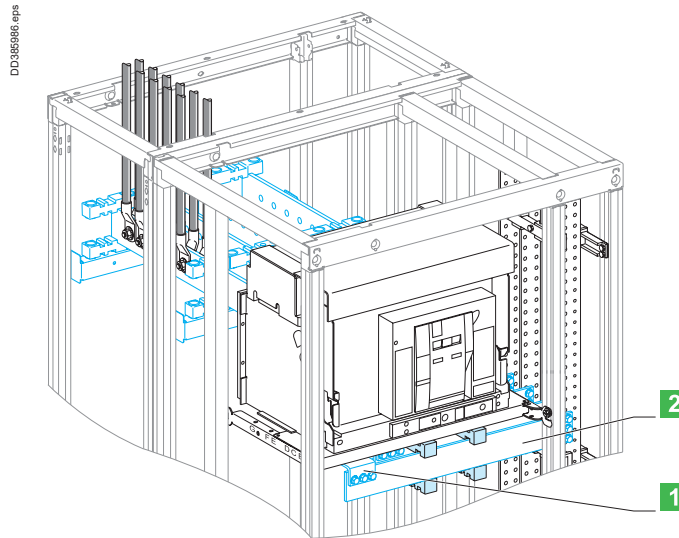
# Designing connections between a device and busbars

Drawout MasterPact 08-16

## Electrical characteristics

MasterPact MTZ2 08 to 16  
MasterPact MTZ2 08 to 16  
Drawout

Vertical busbars on the left or right  
Linergy LGYE busbar  
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 MTZ2 08/16, 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 <sup>(1)</sup>											
		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
MTZ2 08	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	
MTZ2 10	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)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	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	1230	1250	1200	1230	1160	1200	
MTZ2 16	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	1480	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
MTZ2 08	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	
MTZ2 10	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)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	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	1230	1250	1200	1230	1160	1200	
MTZ2 16	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	1480	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) In the case of a door mounted at the rear of cubicle, add 10 °C.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

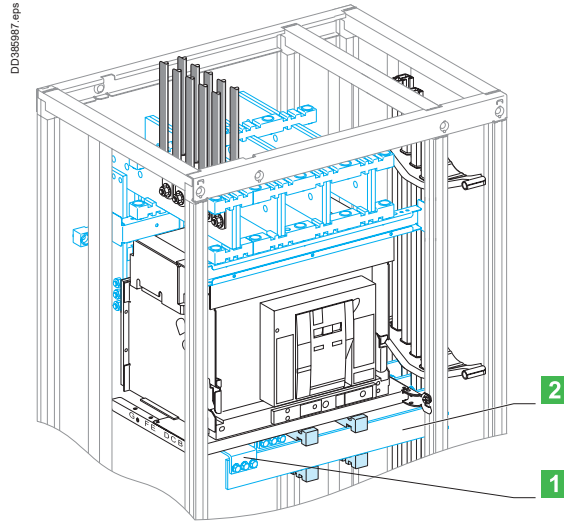
# Designing connections between a device and busbars

Drawout MasterPact 08-32

## Electrical characteristics

MasterPact MTZ2 08 to 32  
MasterPact MTZ2 08 to 32  
Drawout

Vertical busbars on the left or right  
Linergy LGYE busbar  
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 MTZ2 08/32, 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
MTZ2 08	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
MTZ2 10	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
MTZ2 12	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
MTZ2 16	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
MTZ2 20	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
MTZ2 25	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
MTZ2 32	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.

### 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
MTZ2 08	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
MTZ2 10	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
MTZ2 12	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
MTZ2 16	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
MTZ2 20	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	1830
MTZ2 25	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
MTZ2 32	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	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 PrismaSeT P switchboards.

# Designing connections between a device and busbars

## Dedicated cubicle

Fixed MasterPact 08-32

### Electrical characteristics

MasterPact MTZ2 08 to 32

MasterPact MTZ2 08 to 32

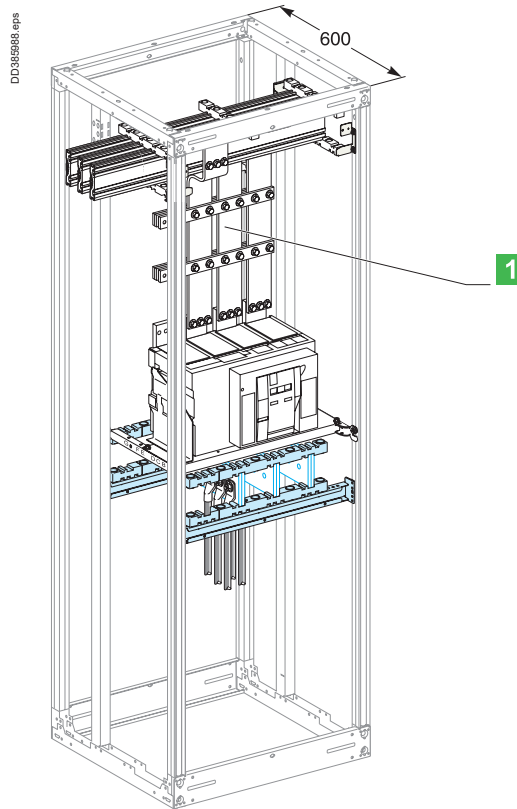
Fixed

Dedicated cubicle

Linergy LGYE busbar

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
MTZ2 08	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
MTZ2 10	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
MTZ2 12	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
MTZ2 16	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
MTZ2 20	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
MTZ2 25	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
MTZ2 32	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.

# Designing connections between a device and busbars

## Dedicated cubicle

Drawout MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32

MasterPact MTZ2 08 to 32

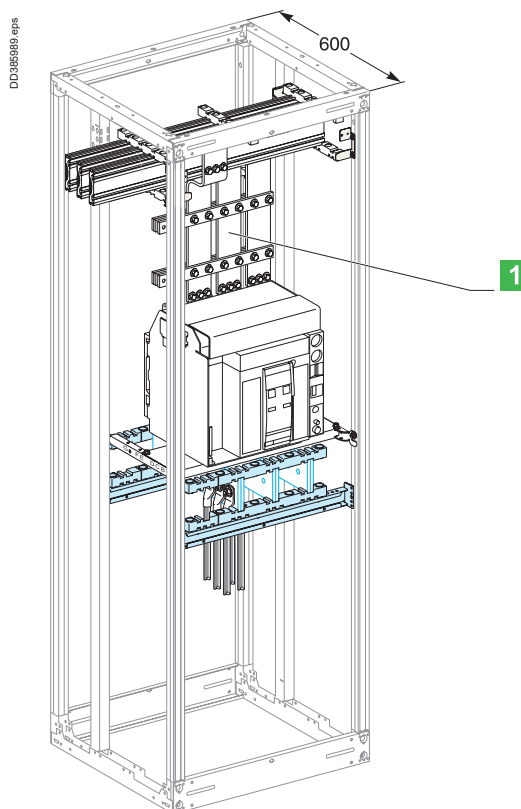
Drawout

Dedicated cubicle

Linergy LGYE busbar

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	
MTZ2 08	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	
MTZ2 10	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	
MTZ2 12	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		
MTZ2 16	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		
MTZ2 20	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		
MTZ2 25	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		
MTZ2 32	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.

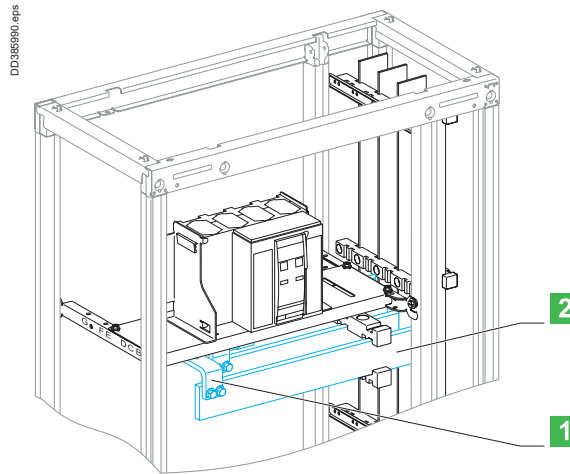
# Designing connections between a device and busbars

Fixed MasterPact 06-16

## Electrical characteristics

MasterPact MTZ1 06 to 16  
 MasterPact MTZ1 06 to 16  
 Fixed

Vertical busbars on the left or right  
 Linergy LGYE busbar  
 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 MTZ1 06/16, 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
MTZ1 06	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	
MTZ1 08	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	
MTZ1 10	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	
MTZ1 12	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	1250	1250	1250	1250	1200	1250	
MTZ1 16 <sup>(1)</sup>	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)	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, 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
MTZ1 06	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	
MTZ1 08	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	
MTZ1 10	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	
MTZ1 12	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	1250	1250	1250	1250	1200	1250	
MTZ1 16	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)	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.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

## Designing connections between a device and busbars

## Fixed 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	
MTZ1 06	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	
MTZ1 08	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	
MTZ1 10	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	
MTZ1 12	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		
MTZ1 16 <sup>(1)</sup>	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	
MTZ1 06	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	
MTZ1 08	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	
MTZ1 10	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		
MTZ1 12	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	1180	1230		
MTZ1 16	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	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.

(1) Make the neutral connection with one bar, 50 x 10 mm.

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

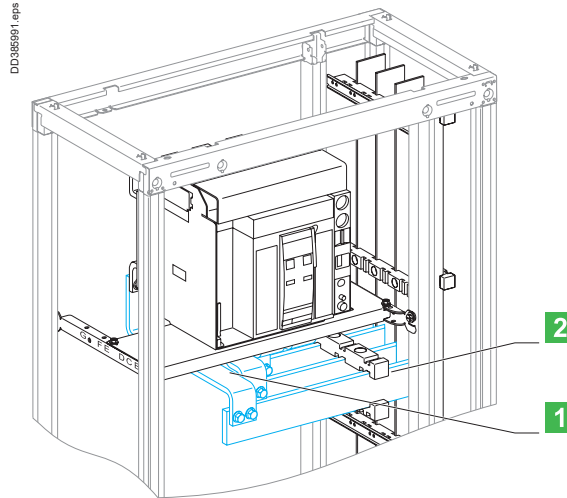
# Designing connections between a device and busbars

## Drawout MasterPact 06-16

### Electrical characteristics

MasterPact MTZ1 06 to 16  
 MasterPact MTZ1 06 to 16  
 Drawout

Vertical busbars on the left or right  
 Linergy LGYE busbar  
 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 MTZ1 06/16, 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
MTZ1 06	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	
MTZ1 08	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	
MTZ1 10	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	
MTZ1 12	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	
MTZ1 16 <sup>(1)</sup>	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
MTZ1 06	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	
MTZ1 08	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	
MTZ1 10	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	
MTZ1 12	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	
MTZ1 16	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 PrismaSeT 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
MTZ1 06	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
MTZ1 08	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
MTZ1 10	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
MTZ1 12	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
MTZ1 16 <sup>(1)</sup>	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
MTZ1 06	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
MTZ1 08	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
MTZ1 10	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
MTZ1 12	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
MTZ1 16	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.

<sup>(1)</sup> Make the neutral connection with one bar, 50 x 10 mm.

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

# Designing connections ≤ 630 A

## Device connections

### 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 PrismaSeT 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)

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<sub>sc</sub> 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<sub>i</sub> = 1000 V
- Impulse withstand voltage U<sub>imp</sub> = 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.

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

## Designing connections $\leq 630$ A

ComPacT circuit breakers NSX100 to NSX630

Insulated flexible copper bars <sup>(1)</sup>

Electrical characteristics

### ComPacT NSX100 to NSX630

Insulated flexible copper bars (withstand temperature = 125 °C)

We recommend insulated flexible copper bars for ComPacT NSX connections from 100 to 630 A

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
<b>IP <math>\leq 31</math></b>							
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 <sub>nc</sub> (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 <sub>nc</sub> (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (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 <sub>nc</sub> (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 <sub>nc</sub> (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (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 <sub>nc</sub> (A)	400	400	400	390	380	370
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 <sub>nc</sub> (A)	630	615	600	585	570	550
<b>IP &gt; 31</b>							
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 <sub>nc</sub> (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 <sub>nc</sub> (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (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 <sub>nc</sub> (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 <sub>nc</sub> (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (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 <sub>nc</sub> (A)	400	400	400	390	380	370
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 <sub>nc</sub> (A)	600	585	570	550	535	520

**Note:** The values indicated above have been validated for PrismaSet P switchboards.

<sup>(1)</sup> We recommend insulated flexible copper bars instead of copper cables for all NSX100 to NSX630 connection.

## Designing connections ≤ 630 A

ComPacT circuit breakers NSX100 to NSX250

Copper cable

### Electrical characteristics

#### 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.

The withstand voltage of insulating material of cable ≥ 1000 V.

### ComPacT NSX100 to NSX250

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
<b>IP ≤ 31</b>							
NSX100 TMD-TMG	Size per phase	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
	I <sub>nc</sub> (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>
	I <sub>nc</sub> (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
	I <sub>nc</sub> (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
	I <sub>nc</sub> (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
	I <sub>nc</sub> (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
	I <sub>nc</sub> (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
	I <sub>nc</sub> (A)	250	245	237	230	225	220
<b>IP &gt; 31</b>							
NSX100 TMD-TMG	Size per phase	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
	I <sub>nc</sub> (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>
	I <sub>nc</sub> (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
	I <sub>nc</sub> (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
	I <sub>nc</sub> (A)	237	230	225	220	215	210
NSX100 STR	Size per phase	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
	I <sub>nc</sub> (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
	I <sub>nc</sub> (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
	I <sub>nc</sub> (A)	237	230	225	220	215	210

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

**Note:** Schneider Electric recommends connecting ComPacT NSX400/630 circuit breakers with insulated flexible bars or rigid bars > [page C-125](#).

## Designing connections $\leq 630$ A

ComPacT circuit breakers NSXm up to 63

Copper cable

Electrical characteristics

### ComPacT NSXm up to 63

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
<b>IP <math>\leq</math> 31</b>							
NSXm 63	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	I <sub>nc</sub> (A)	100	100	96	94	90	87
<b>IP &gt; 31</b>							
NSXm 63	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	I <sub>nc</sub> (A)	100	100	96	94	90	87

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

C

# Designing cable connections

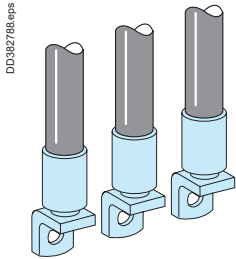
## Tubular lugs

### 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-INS-INV250 supplied via the top or the bottom, cat. no. LVS04066 and LVS04067	150 mm <sup>2</sup>	240 mm <sup>2</sup>	185 mm <sup>2</sup>
In-duct incoming connection block for ComPacT NSX630 supplied via the top or the bottom cat. no. LVS04076	240 mm <sup>2</sup>	300 mm <sup>2</sup>	300 mm <sup>2</sup>



DD382788.eps

#### Narrow bimetal lugs

##### Cat. no. selection

Cat. no.	Cable size (mm <sup>2</sup> )	Quantity
<b>Lugs for aluminium cable <sup>(1)</sup></b>		
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 MTZ1 /MTZ2 devices.

	Cable size (mm <sup>2</sup> )	Quantity
<b>Size and number of cables</b>		
Copper lugs	300	12
Bimetal lugs	240	12

(1) Supplied with 2 or 3 interphase barriers.

## Designing customer connections

### Prefabricated connections for MasterPact 06-16

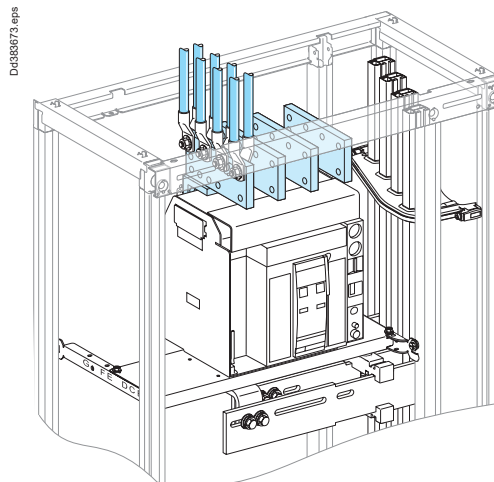
#### Electrical characteristics

#### MasterPact MTZ1 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 MTZ1 06/16, 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	
MTZ1 06 3P cat. no. <b>33642</b>	630	630	630	630	630	630	630	630	630	630	630	630	■
4P cat. no. <b>33643</b>													
MTZ1 08 3P cat. no. <b>33642</b>	800	800	800	800	800	800	800	800	800	800	800	800	■
4P cat. no. <b>33643</b>													
MTZ1 10 3P cat. no. <b>33642</b>	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
4P cat. no. <b>33643</b>													
MTZ1 12 3P réf. <b>33642 + 33644</b>	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■	
4P réf. <b>33643 + 33645</b>													
MTZ1 16 3P réf. <b>33642 + 33644</b>	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	■	
4P réf. <b>33643 + 33645</b>													

■ 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	
MTZ1 06 3P cat. no. <b>33642</b>	630	630	630	630	630	630	630	630	630	630	630	630	■
4P cat. no. <b>33643</b>													
MTZ1 08 3P cat. no. <b>33642</b>	800	800	800	800	800	800	800	800	800	800	800	800	■
4P cat. no. <b>33643</b>													
MTZ1 10 3P cat. no. <b>33642</b>	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
4P cat. no. <b>33643</b>													
MTZ1 12 3P réf. <b>33642 + 33644</b>	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■	
4P réf. <b>33643 + 33645</b>													
MTZ1 16 3P réf. <b>33642 + 33644</b>	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	■	
4P réf. <b>33643 + 33645</b>													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

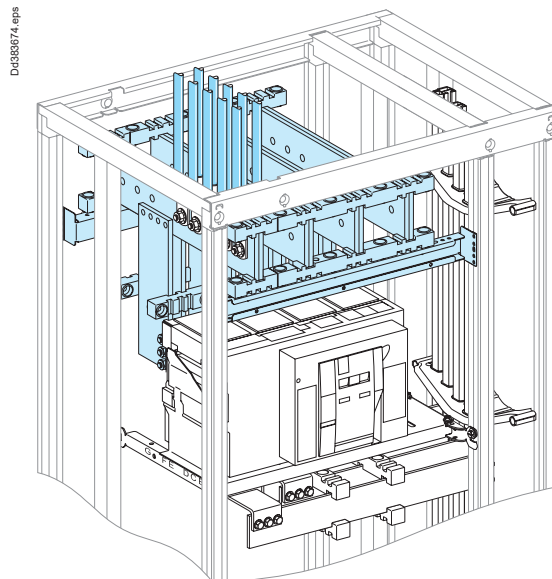
# Designing customer connections

Fixed MasterPact 08-16

## Electrical characteristics

### MasterPact MTZ2 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 MTZ1 06/16, 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 > page C-128.

### 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
MTZ2 08	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)	800	800	800	800	800	800	800	800	800	800	800	
MTZ2 10	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)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
MTZ2 12	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	1250	1250	
MTZ2 16	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)	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 PrismaSeT P switchboards.

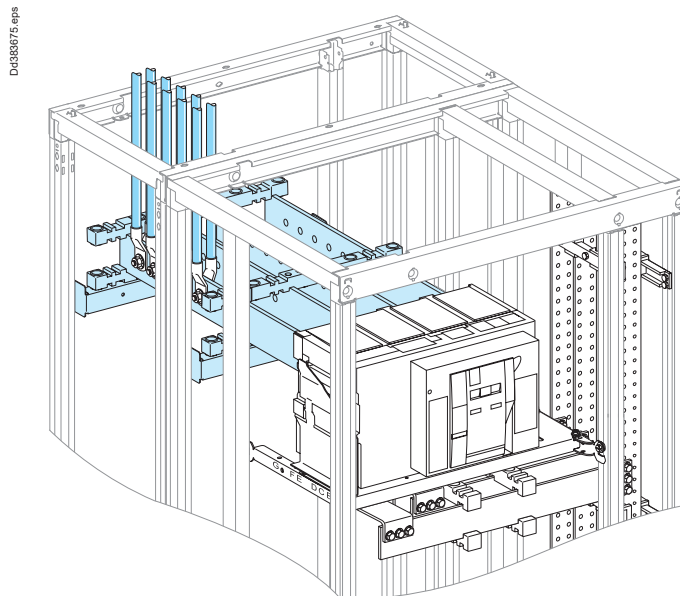
# Designing customer connections

## Fixed MasterPact 08-32

### Electrical characteristics

#### MasterPact MTZ2 08 to 32 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
MTZ2 08	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
MTZ2 10	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
MTZ2 12	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
MTZ2 16	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
MTZ2 20	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
MTZ2 25	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	2460
MTZ2 32	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	2820

■ 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	MTZ2 08	MTZ2 10	MTZ2 12	MTZ2 16	MTZ2 20	MTZ2 25	MTZ2 32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

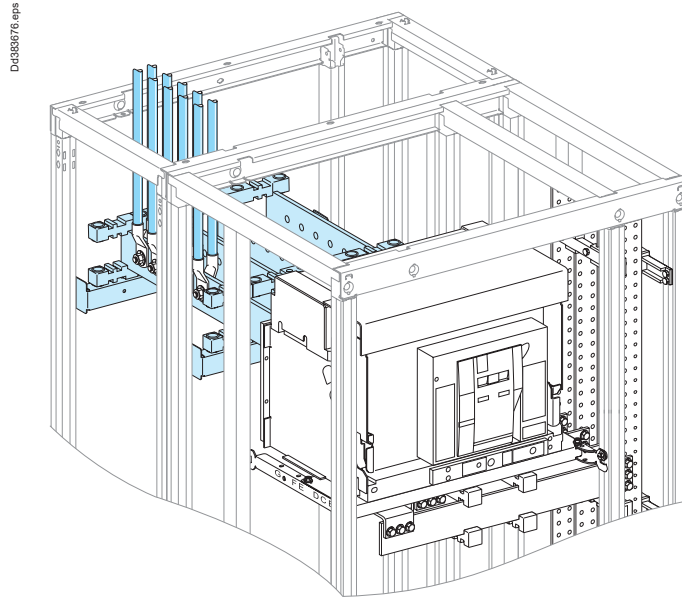
# Designing customer connections

## Drawout MasterPact 08-16

### Electrical characteristics

#### MasterPact MTZ2 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 MTZ1 08/16, 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 > [page C-128](#).

#### 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
MTZ2 08	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
MTZ2 10	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
MTZ2 12	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
MTZ2 16	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 PrismaSeT P switchboards.

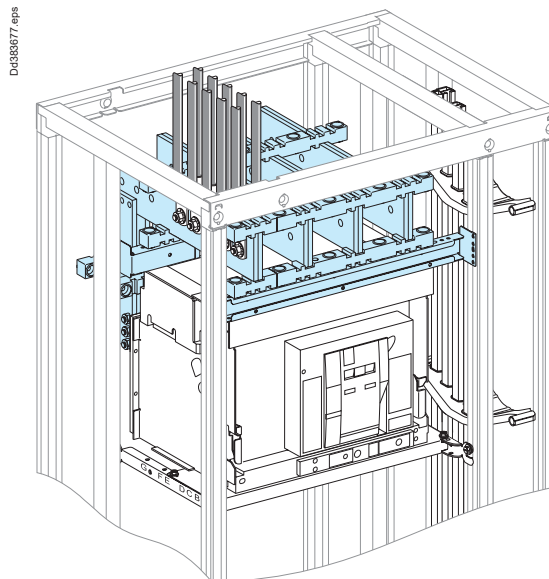
# Designing customer connections

## MasterPact 08-32 withdrawable

### Electrical characteristics

#### MasterPact MTZ2 08 to 32 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	
MTZ2 08	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	
MTZ2 10	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	
MTZ2 12	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		
MTZ2 16	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		
MTZ2 20	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		
MTZ2 25	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		
MTZ2 32	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		

■ 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	MTZ2 08	MTZ2 10	MTZ2 12	MTZ2 16	MTZ2 20	MTZ2 25	MTZ2 32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

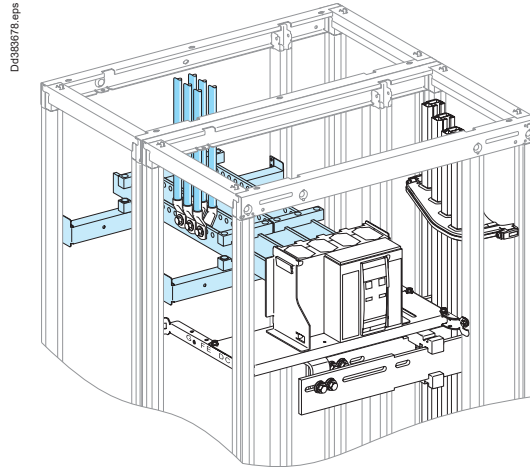
# Designing customer connections

## Fixed MasterPact 06-16

### Electrical characteristics

#### MasterPact MTZ1 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 MTZ1 06/16, 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 > [page C-128](#).

#### 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
MTZ1 06	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	
MTZ1 08	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	
MTZ1 10	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	
MTZ1 12	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	
MTZ1 16	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
MTZ1 06	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	
MTZ1 08	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	
MTZ1 10	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	
MTZ1 12	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	
MTZ1 16	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	MTZ1 06b	MTZ1 08	MTZ1 10	MTZ1 12	MTZ1 16
Derating coefficient K	1	1	1	1	0,98

Note: The values indicated above have been validated for PrismaSeT P switchboards.

# Designing customer connections

## Drawout MasterPact 06-16

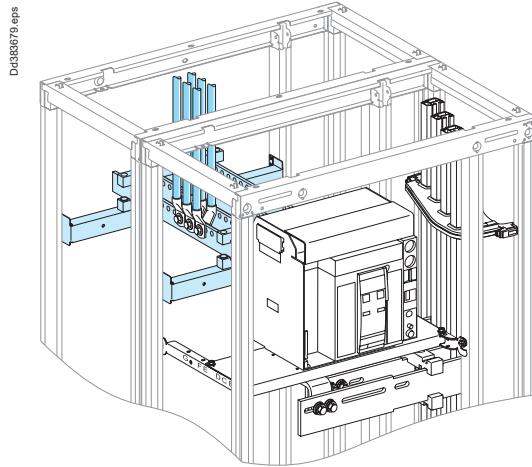
### Electrical characteristics

#### MasterPact MTZ1 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 MTZ1 06/16, 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 > page C-128.

### 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
MTZ1 06	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
MTZ1 08	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
MTZ1 10	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
MTZ1 12	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
MTZ1 16	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
MTZ1 06	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
MTZ1 08	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
MTZ1 10	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
MTZ1 12	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
MTZ1 16	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	MTZ1 06	MTZ1 08	MTZ1 10	MTZ1 12	MTZ1 16
Derating coefficient K	1	1	1	1	0,98

Note: The values indicated above have been validated for PrismaSeT P switchboards.

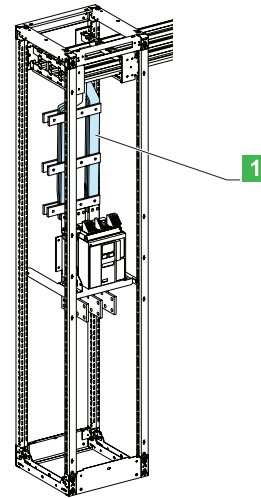
# Designing connections between a device and busbars

## Dedicated cubicle - W = 400 mm

### Electrical characteristics

#### Fixed MasterPacT / MTZ1 06 to 16

Dedicated cubicle  
 Linergy LGYE busbar  
 Connections drawings supplied by Schneider Electric



1 Connection

#### Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature (°C)												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
Fixed NS, MTZ1		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
MTZ1 630	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 800	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 1000	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	1000	1000	1000	1000	980	940	960	920	940	900	920		
MTZ1 1250	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	1240	1080	1200	1050	1160	1020	1125	980	1085	950	1040		
MTZ1 1600	Size per phase	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	■
	Fixed I (A)	1525	1380	1490	1345	1450	1310	1415	1275	1375	1240	1330		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

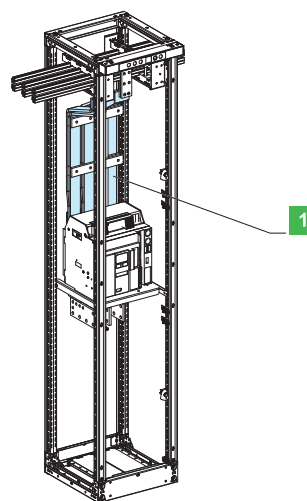
# Designing connections between a device and busbars

## Dedicated cubicle - W = 400 mm

### Electrical characteristics

#### Drawout MasterPacT / MTZ1 06 to 16

Dedicated cubicle  
 Linergy LGYE busbar  
 Connections drawings supplied by Schneider Electric



1 Connection

#### Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature (°C)												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
Drawout NS, MTZ1		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
MTZ1 630	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	630	630	630	630	630	630	630	630	630	630	630	630	
MTZ1 800	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	800	800	800	800	800	800	800	800	800	800	800	800	
MTZ1 1000	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	1000	1000	1000	1000	980	940	960	920	940	900	920		
MTZ1 1250	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	1230	1070	1190	1040	1155	1005	1115	970	1075	935	1030		
MTZ1 1600	Size per phase	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	■
	Drawout A (l)	1515	1340	1480	1305	1440	1270	1400	1235	1355	1200	1315		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

# PrismaSeT P Internal Arc

## PrismaSeT P Internal Arc

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### Internal Arc Linergy LGYE 66 kA

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### Internal Arc Linergy BS 50 kA

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Functional Units
Linerly Distribution Systems
Functional Partitioning
Additional Information

### Active Internal Arc-Fault Mitigation System Vamp

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Functional Units
Linerly Distribution Systems
Functional Partitioning
Additional Information

### Active Internal Arc-Fault Mitigation System Vamp + Arc Quencher

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Functional Units
Linerly Distribution Systems
Functional Partitioning
Additional Information





## Maximum safety and ensure continuity in **mission-critical power systems**

In critical infrastructures, electrical safety is non-negotiable. Arc flash incidents can lead to severe injuries, fatalities, and costly operational disruptions. As electrical systems become more complex and demand continues to rise, mitigating arc flash risk is **more essential than ever**.



**600+**  
accidents

Reported annually across industrial facilities, of which, 25% involve arc flash incidents.



**1-2**  
fatalities per day

Related to arc flash occur regularly worldwide during electrical maintenance.



**66%**  
of fatalities

in low-voltage switchgear incidents are caused by arc flash.

## Why PrismaSeT P Internal Arc?

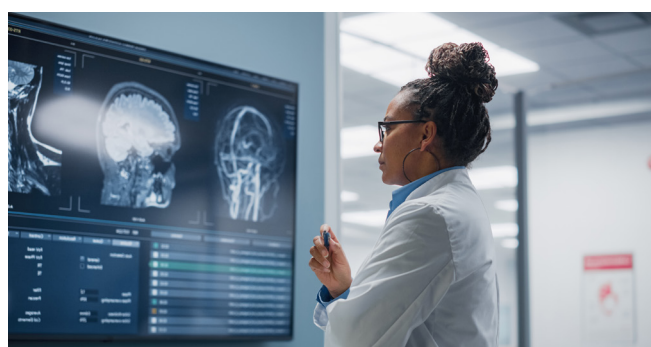
To reduce arc flash risks, organizations must combine robust fault mitigation systems with safe operational practices that limit exposure to live equipment.

PrismaSeT P Internal Arc is purpose-built to deliver maximum protection in demanding environments. Designed with reinforced arc resistance and certified to **IEC/TR 61641** (up to 66 kA / 415 V), it protects people, contains fault energy, and minimizes operational disruption.

## Target segments for arc fault mitigation



Data centers



Healthcare infrastructure



Hotels



Large commercial buildings



Industrial manufacturing plants

D

## Protect people, preserve assets, maintain uptime

Internal arcs are among the most serious risks in electrical installations. This specific application is engineered to prioritize user safety and equipment longevity, providing a robust solution that contains energy and ensures total continuity of service.



### Proven internal arc protection

- Designed to withstand internal faults and safely contain arc energy
- Helps protect operators while limiting equipment damage



### Reliable

- Fully certified by an independent third party in compliance with the **IEC/TR 61641** standard.
- Verified through rigorous design validation and routine testing



### Robust mechanical design

- High rigidity structure with **IK07–IK10** impact protection
- Maintains integrity during faults



### Modular and upgradeable

- Easily adapts to changing configurations without compromising safety
- Future-ready for evolving electrical needs



### Faster assembly, lower risk

- Functional system design simplifies panel assembly
- Reduces human error during installation



## See PrismaSeT P in action

Discover how it enhances installation safety.



[Click to find out more](#)

# Prisma**SeT** P Internal Arc Cubicles up to 3200 A - IP31



D



## Electrical characteristics

- Rated insulation level of main busbars: 1000 V
- InA: 3200 A
- Rated peak withstand current I<sub>pk</sub>: 220 kA
- Rated short-time withstand current I<sub>sw</sub>: 100 kA rms / 1 second
- Frequency: 50/60 Hz
- Voltage U<sub>e</sub> = 415 V



## Mechanical characteristics

- Steel sheet metal
- Cataphoresis treatment + hot-polymerised polyester epoxy powder, white color RAL 9003
- Can be dismantled
- Can be combined side-by-side and back-to-back
- Degree of protection:
  - IP31
- Degree of protection against mechanical impacts:
  - IK10
- 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



For Switchboard Assembly and Earthing Continuity instructions, refer *How to Assemble the Electrical Switchboard* Guide PHA2165500.



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

# Cubicles

# Contents

## Enclosures

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<b>Cubicles</b>	
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## Enclosures

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Heat	D-31
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# Cover panels

## Enclosures

### 1000 mm deep switchboard

Made up of two cubicles back-to-back.

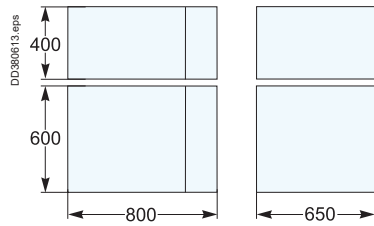
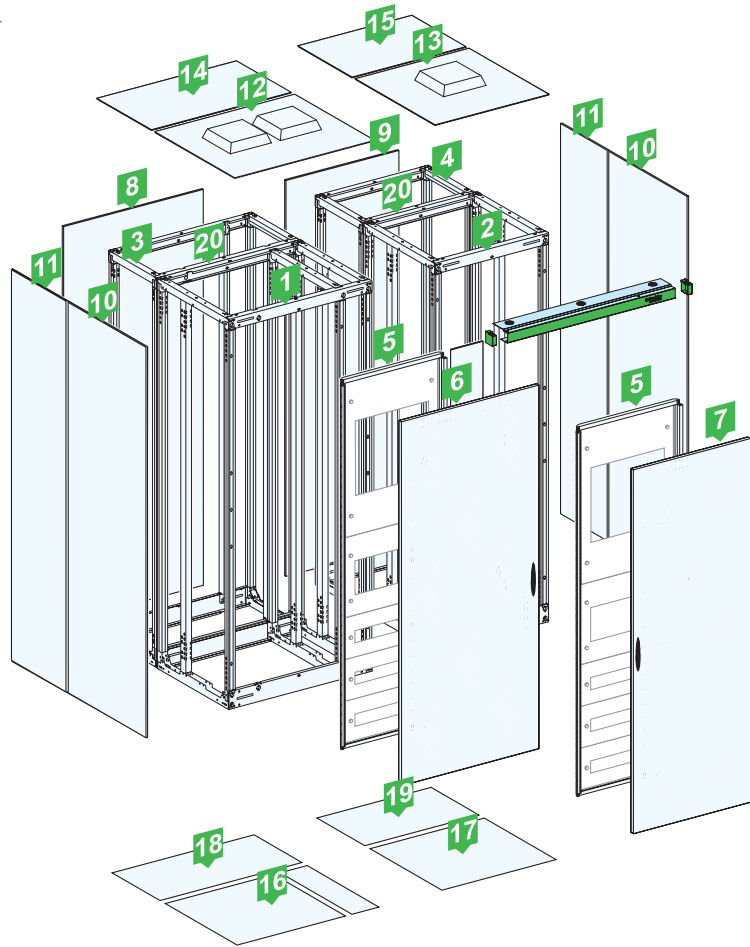
Rear connections are possible.

- Front panels
  - One of the following must be installed in front of the hinged front plate frame support:
    - A plain door
    - A transparent door
- Rear panels = screw-on panels
- Side panels = screw-on panels
- Plain roof
- Gland plates (plain or in two parts)

Parts list:

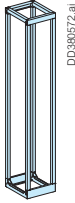
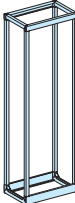
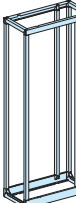
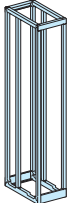
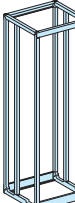
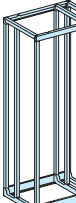
- 1 LVS08607: Framework, W = 800, D = 600, H = 2000
- 2 LVS08606: Framework, W = 650, D = 600, H = 2000
- 3 LVS08407: Framework, W = 800, D = 400, H = 2000
- 4 LVS08406: Framework, W = 650, D = 400, H = 2000
- 5 LVS08566: Front plate frame support, W = 650
- 6 LVS08528: Plain door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 LVS08526: Plain door, W = 650
- 8 LVS08748: Rear panel, W = 800 (screw-on panel)
- 9 LVS08746: Rear panel, W = 650 (screw-on panel)
- 10 LVS08765: Set of two side panels, D = 600 (screw on panels)
- 11 LVS08755: Set of two side panels, D = 400 (screw on panels)
- 12 LVS08678: Plain roof, W = 800, D = 600 (screw on panel)
- 13 LVS08656: Plain roof, W = 650, D = 600 (screw on panel)
- 14 LVS08458: Plain roof, W = 800, D = 400 (screw on panel)
- 15 LVS08456: Plain roof, W = 650, D = 400 (screw on panel)
- 16 LVS08687: Plain gland plate, W = 800, D = 600
- 17 LVS08686: Plain gland plate, W = 650, D = 600
- 18 LVS08487: Plain gland plate, W = 800, D = 400
- 19 LVS08486: Plain gland plate, W = 650, D = 400
- 20 LVS08719 x 2: Double depth combination kit

DB-447635.eps





Cubicles Frameworks

Enclosures

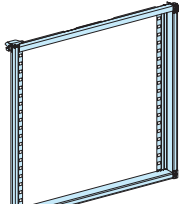
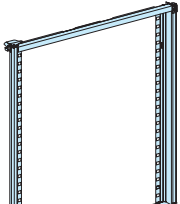
Mounting	Frameworks										
											
Width (mm)	300	400	650	800	800 (650 + 150)	300	400	650	800	800 (650 + 150)	
	Depth 400 mm					Depth 600 mm					
Cat. no.	LVS08403	LVS08404	LVS08406	LVS08408	LVS08407	LVS08603	LVS08604	LVS08606	LVS08608	LVS08607	
Composition	2 frames					3 frames					
	-				+ 2 additional uprights	Equipped with intermediate uprights for the mounting plates.					
	<ul style="list-style-type: none"> <li>4 cross-pieces</li> <li>Mounting hardware</li> <li>Framework combinations</li> </ul>										
Characteristics	<ul style="list-style-type: none"> <li>Cubicles can be combined side-by-side and back-to-back.</li> <li>Can be equipped with IP30 cover panels.</li> </ul> <p><b>Note:</b> For the 800 mm width, the busbar compartment can be on the left or right.</p>										

D

Mounting	Hinged front plate frame support	
		
Width (mm)	400	650
Cat. no.	LVS08564	LVS08566 (1)
Characteristics	<ul style="list-style-type: none"> <li>Reversible for left or right-hand opening.</li> <li>Secured at two points.</li> </ul> <p><b>Note:</b> Can be mounted on 650 mm and 800 mm (650 + 150) wide cubicles.</p> <p>(1) For drawout MasterPacT MTZ2, hinged front plate frame support must open towards left-hand side.</p>	

Partial hinged cover-frame supports

> page D-40

Mounting	Partial hinged cover-frame supports	
		
Width (mm)	650	
	10 modules	12 modules
Cat. no.	LVS08560	LVS08562
Characteristics	<ul style="list-style-type: none"> <li>For drawout MasterPacT MTZ2, hinged front plate frame support must open towards left-hand side.</li> </ul>	<ul style="list-style-type: none"> <li>Use for Fupact ISFL configurations.</li> <li>For drawout MasterPacT MTZ2, when hinged front plate frame support is left-hand opening.</li> </ul>

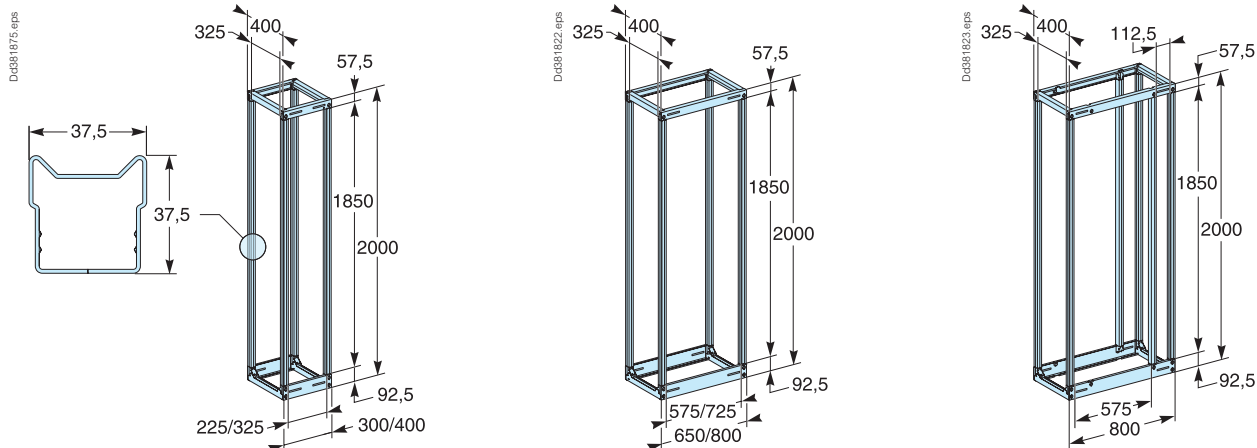
Cubicles  
Frameworks

Enclosures

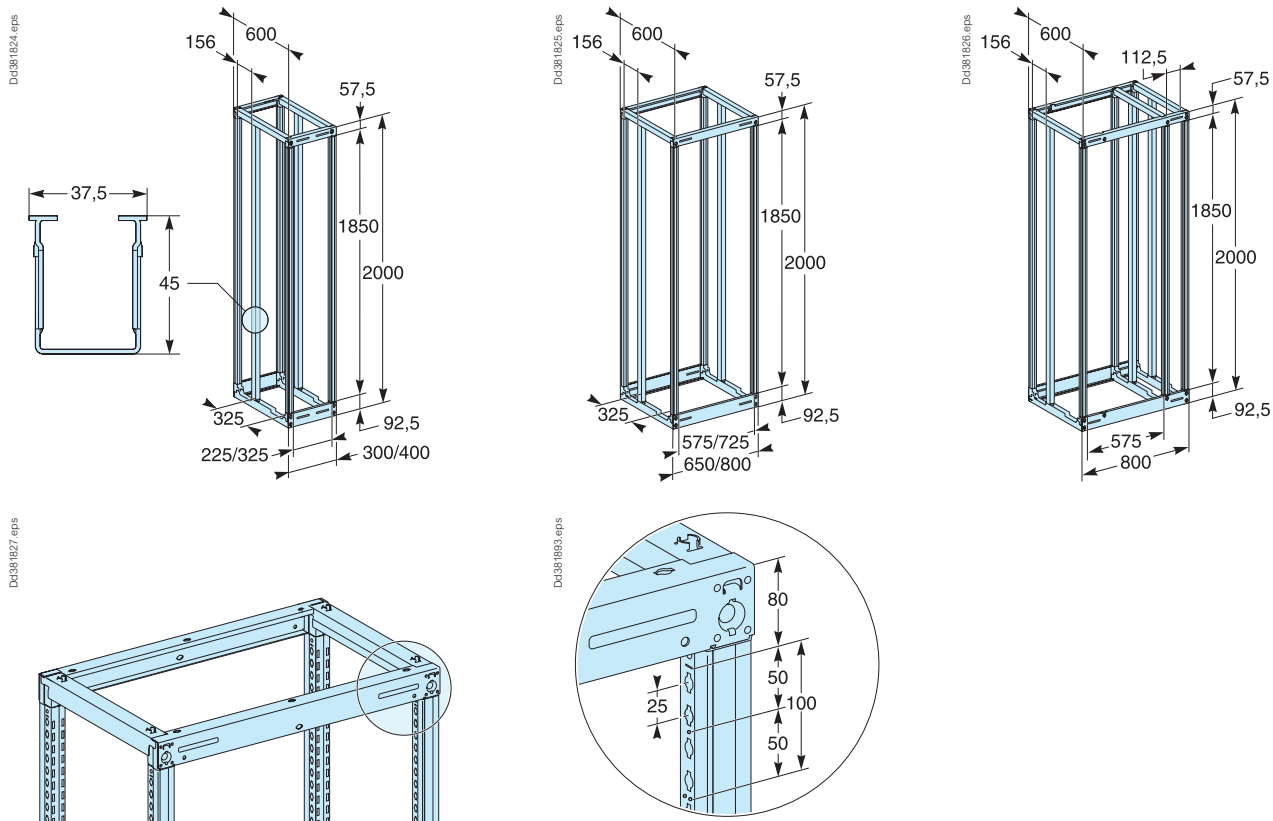
Framework combinations		
Type	Side-by-side	Back-to-back
	IP55 sealing kit	Double depth combination kit
Cat. no.	LVS08717	LVS08719
Characteristics	<ul style="list-style-type: none"> <li>The 650 and 800 mm wide frameworks are supplied with a combination kit comprising six M6 bolts.</li> <li>To maintain the IP55 degree of protection, an optional gasket must be installed between the combined cubicles.</li> </ul>	<p>The kit is made up of:</p> <ul style="list-style-type: none"> <li>A set of hardware for the mechanical connections between the cross-pieces.</li> <li>Six assembly plates to connect the uprights.</li> <li>The IP55 sealing kit.</li> </ul>

Accessories		
Type	Commodities	
	Fixing screws and nuts	
Cat. no.	LVS08921	LVS08718
Characteristics	Set of 20 screws + wing nuts for framework	Set of 10 screws + combination accessories

#### Frameworks, D = 400 mm



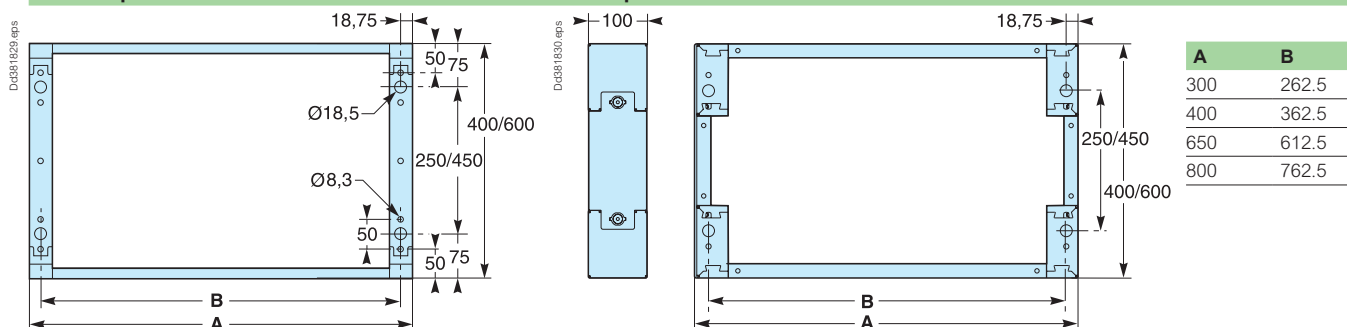
#### Frameworks, D = 600 mm



#### Fixing to floor

##### Without plinth

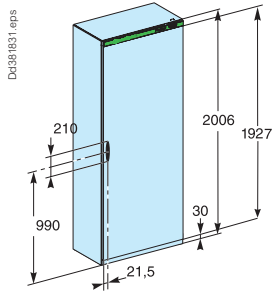
##### With plinth



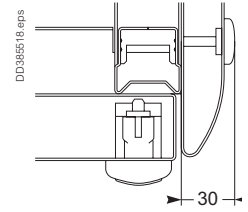
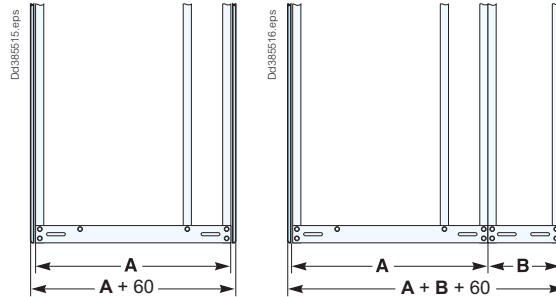
### Dimensions

#### Cubicle with cover panels

##### Height

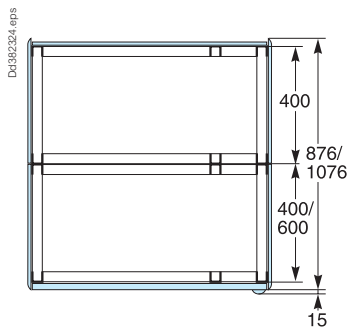


##### Width

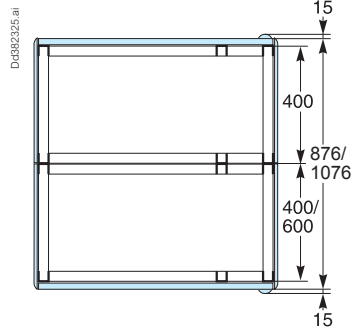


##### Depth

##### Door in front and panel in rear

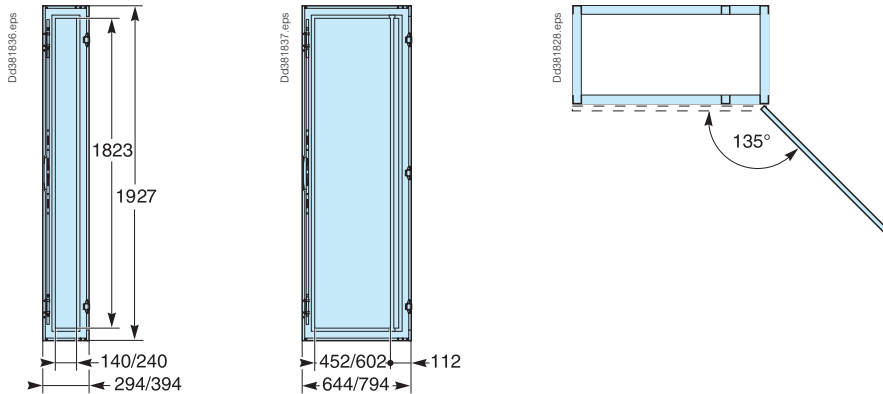


##### Doors front and rear

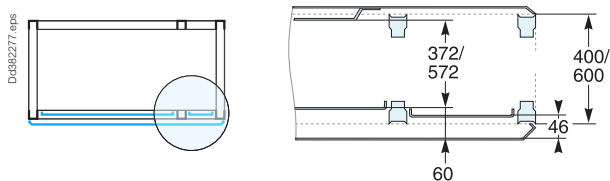


##### Door

##### IP55 door

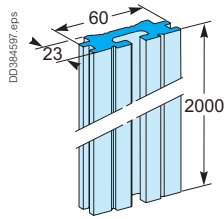


##### Available space behind door

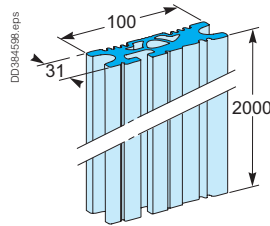


### Linery LGYE busbars

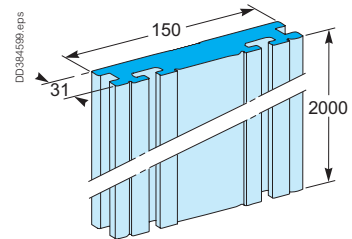
630 A - 1600 A



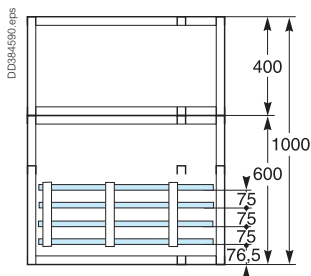
2000 A - 2500 A



3200 A

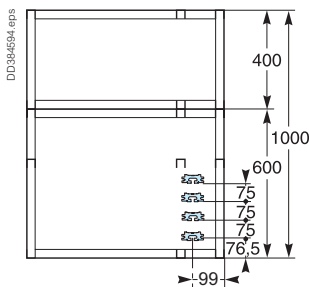


### Layout of horizontal Linery LGYE busbars

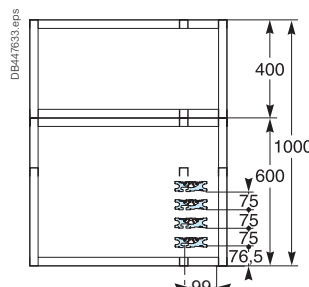


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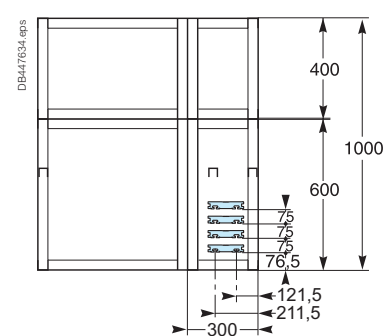
630 A - 1600 A



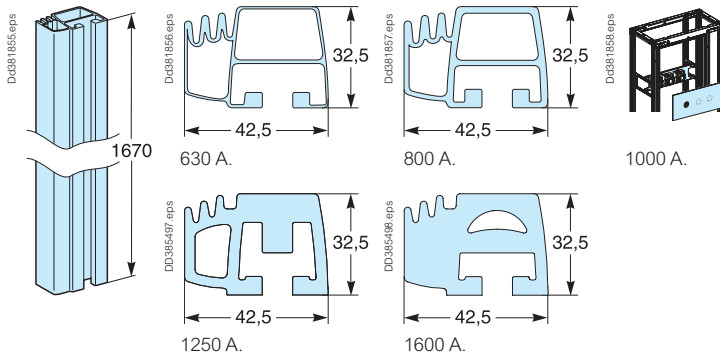
2000 A - 2500 A



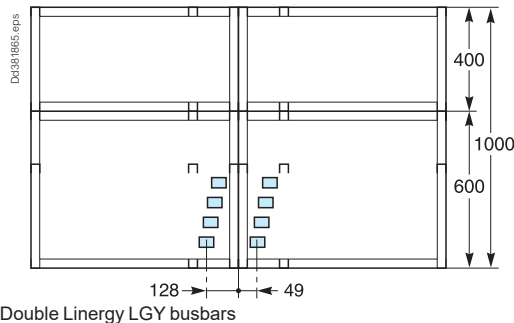
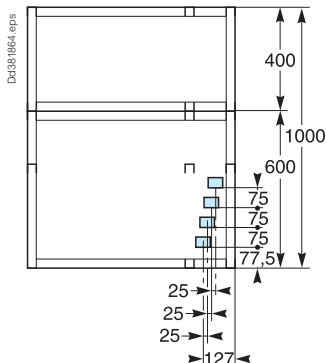
3200 A



### Vertical Linery LGY busbars



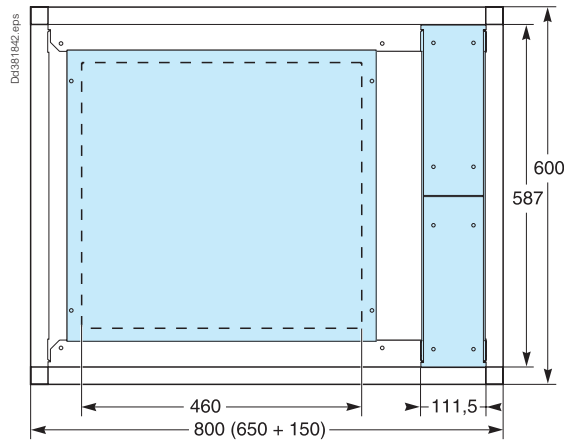
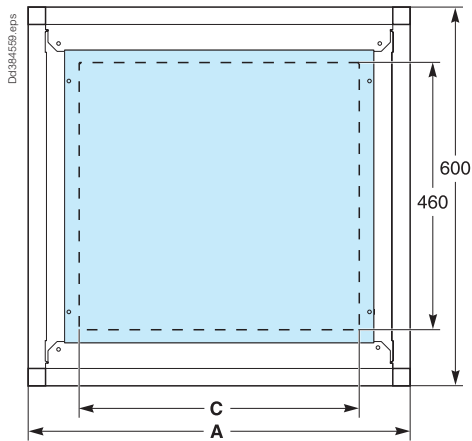
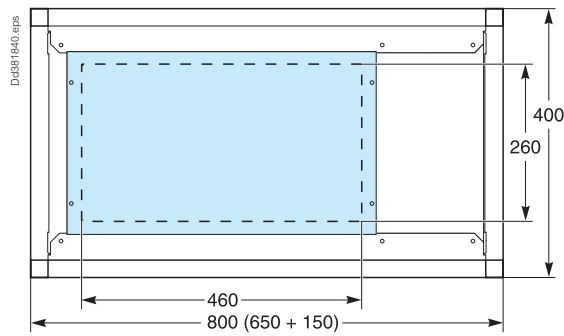
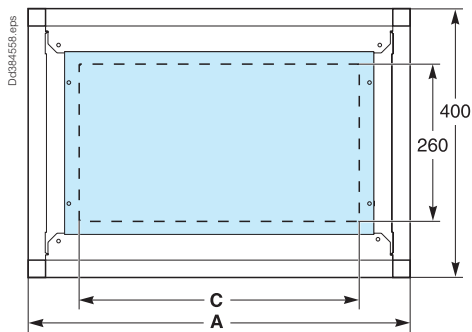
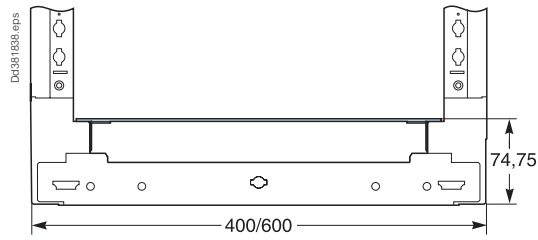
### Layout of Linery LGY busbars



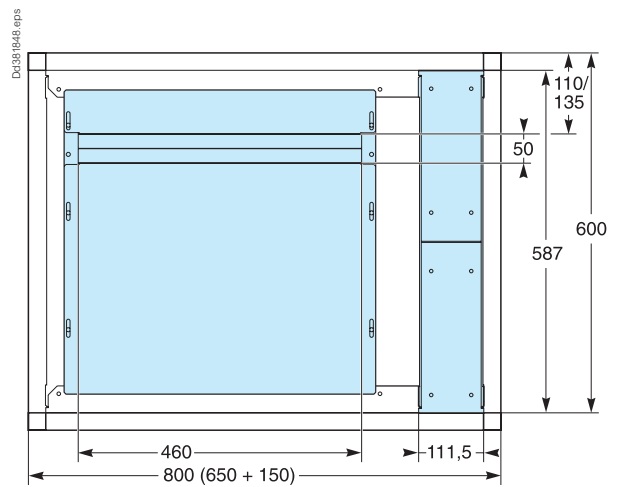
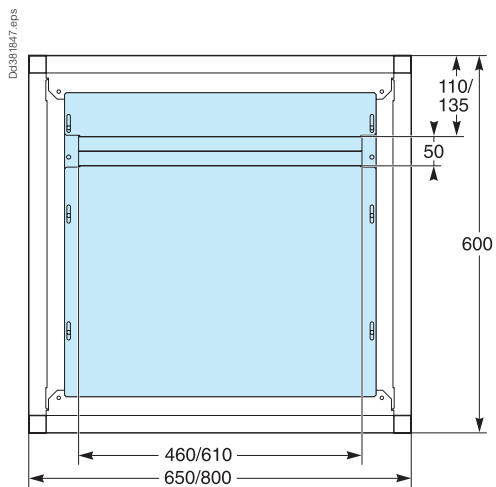
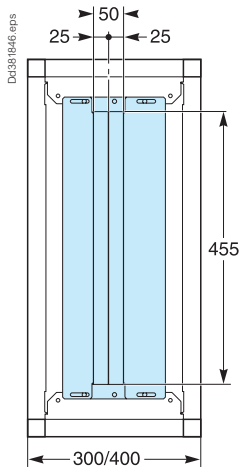
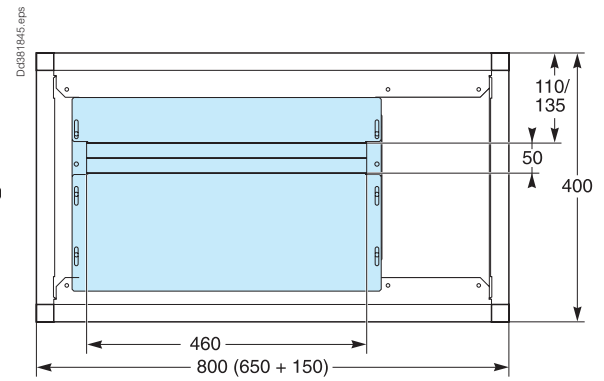
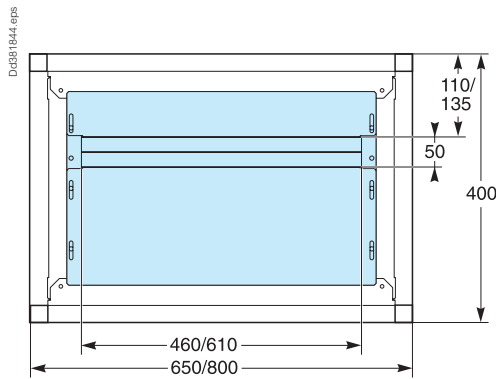
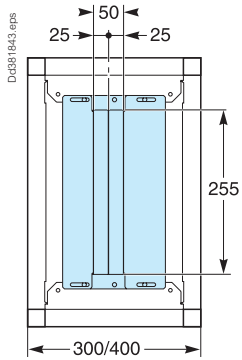
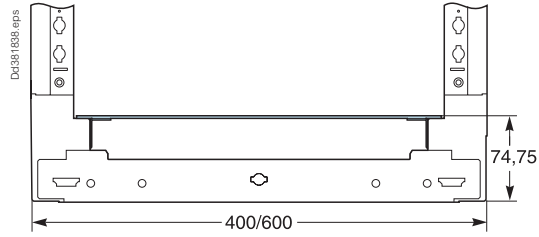
Dimensions

Plain gland plates

A	C
300	110
400	210
650	460
800	610

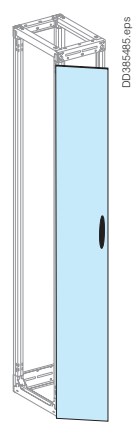
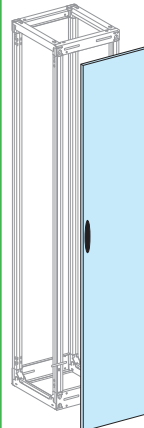
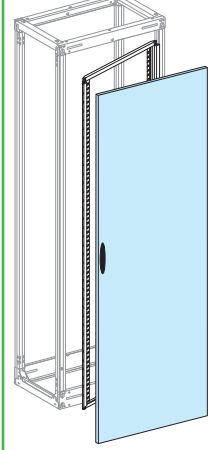
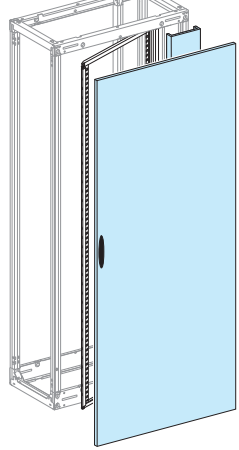


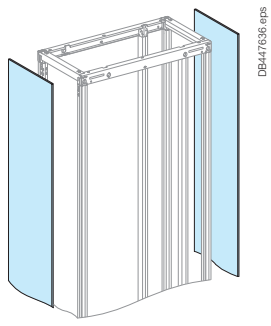
Two-part gland plates



Cubicles  
IP31

Enclosures

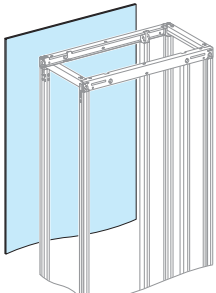

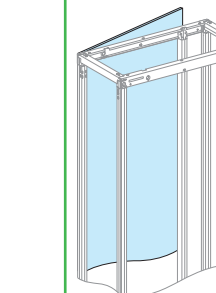
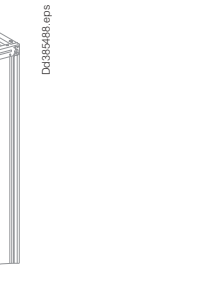
Mounting	Front doors			
	 <p style="font-size: 8px;">DB395495.eps</p>	 <p style="font-size: 8px;">DB447637.ai</p>	 <p style="font-size: 8px;">DB447638.ai</p>	 <p style="font-size: 8px;">DB447639.ai</p>
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Plain door	<b>LVS08523</b>	<b>LVS08524</b>	<b>LVS01224</b>	<b>LVS01225</b>
Reinforced door striker	–	<b>LVS01114 (1)</b>		
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket, IP55.</li> <li>■ Reversible for left or right-hand opening.</li> <li>■ Equipped with a handle and keylock (key 405).</li> </ul> <p>For other possibilities &gt; page D-30.</p> <p>For IP55 rated configurations, front or rear mounted doors, it is necessary to follow the temperature derating tables, to ensure a convenient installation of devices.</p> <p><b>Note:</b> 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> <p>(1) Refer to instruction sheet JPT89930 in se.com for assembly.</p>			

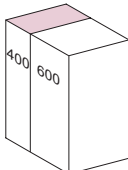
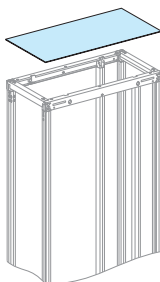



Mounting	Side panels	
	 <p style="font-size: 8px;">DB447638.eps</p>	
<b>Dimensions (mm)</b>	<b>D = 400</b>	<b>D = 600</b>
Side panels	<b>LVS08755</b>	<b>LVS08765</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket.</li> <li>■ Supplied with mounting hardware.</li> </ul>	

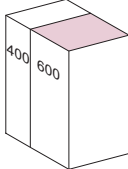
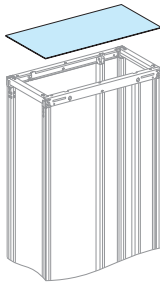

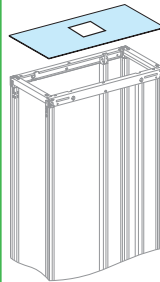
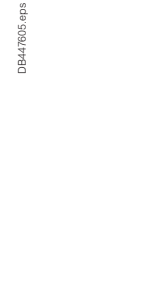
# Cubicles

## IP31

### Enclosures

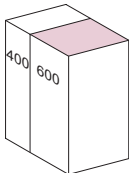
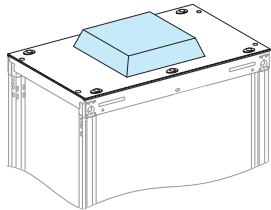
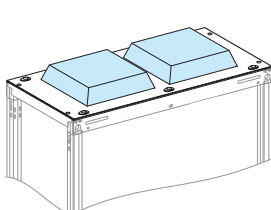
Mounting	Rear panels			
				
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Rear panel	LVS08743	LVS08744	LVS08746	LVS08748
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket.</li> <li>■ Supplied with mounting hardware.</li> <li>■ One-piece, reinforced panel designed to ensure the degree of protection.</li> </ul>			

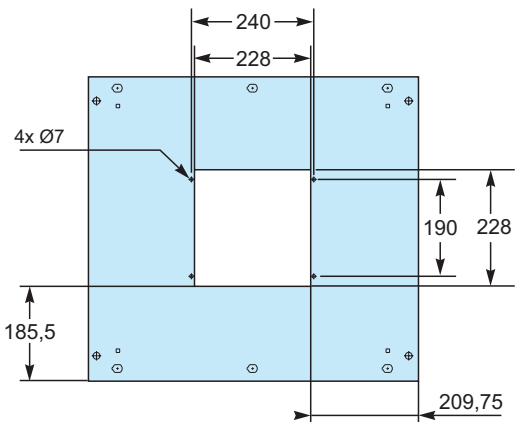
Mounting	Plain roof			
				
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Plain roof D = 400 mm	LVS08453	LVS08454	LVS08456	LVS08458

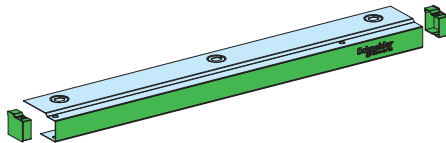
Mounting	Plain roof		Ventilated roof	
				
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Roof D = 600 mm	LVS08653	LVS08654	LVS08656	LVS08678

# Cubicles

## IP31

Mounting		Natural ventilation top hood without fan	
			
<b>Dimensions (mm)</b>	<b>W = 650</b>	<b>W = 800</b>	
Catalog number	<b>NSYCAC228RMB</b>		

Cut-out in roof	
	
<b>Dimensions (mm)</b>	<b>W = 650</b>
Roof D = 600 mm	<b>LVS08656</b>

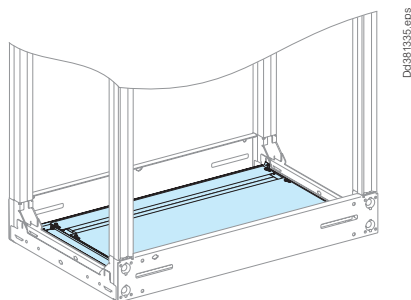
Green cover to fix on top of each frame									
									
<b>Dimensions (mm)</b>	<table border="1"> <thead> <tr> <th>W = 300</th> <th>W = 400</th> <th>W = 650</th> <th>W = 800</th> </tr> </thead> <tbody> <tr> <td><b>LVS08640</b></td> <td><b>LVS08641</b></td> <td><b>LVS08642</b></td> <td><b>LVS08643</b></td> </tr> </tbody> </table>	W = 300	W = 400	W = 650	W = 800	<b>LVS08640</b>	<b>LVS08641</b>	<b>LVS08642</b>	<b>LVS08643</b>
W = 300	W = 400	W = 650	W = 800						
<b>LVS08640</b>	<b>LVS08641</b>	<b>LVS08642</b>	<b>LVS08643</b>						
Characteristics	To cover the top of each section which does not have Voltage Presence Indicator.								

# Cubicles

## Plinth

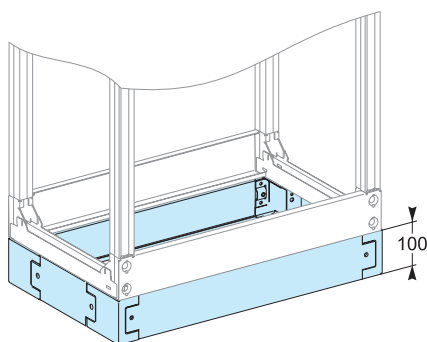
### Enclosures

#### Mounting Two-part gland plates



<b>Degree of protection</b>	<b>IP30/IP31</b>	
<b>Dimensions (mm)</b>	<b>D400</b>	<b>D600</b>
W = 300 mm	<b>LVS08493</b>	<b>LVS08693</b>
W = 400 mm	<b>LVS08494</b>	<b>LVS08694</b>
W = 650 mm	<b>LVS08496</b>	<b>LVS08696</b>
W = 800 mm (650 + 150)	<b>LVS08497</b>	<b>LVS08697</b>
W = 800 mm	<b>LVS08498</b>	<b>LVS08698</b>

#### Mounting Plinth H = 100 mm



<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>	<b>D = 400</b>	<b>D = 600</b>
Four corner posts + two cross-pieces (front and rear)	<b>LVS08723</b>	<b>LVS08724</b>	<b>LVS08726</b>	<b>LVS08728</b>	-	-
Two side plates	-	-	-	-	<b>LVS08720</b>	<b>LVS08721</b>

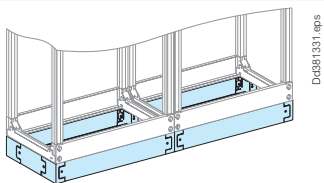
**Characteristics**

The plinth is made up of two catalog numbers:

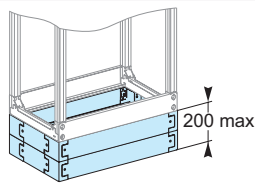
- One catalog number comprising four corner posts + two cross-pieces (front and rear), that can be used in side-by-side combinations or stacked to form a plinth 200 mm high (maximum).
- One catalog number comprising two side plates (400 or 600 mm).

Each catalog number is supplied with the necessary hardware.

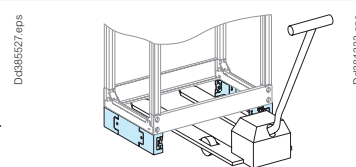
#### Examples



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.

**⚠ WARNING**

**TIP OVER HAZARD**

- Read and apply user instructions before work:
  - Secure the product in place.
  - Secure the product if removing the securing bolts or moving the product.
  - Use appropriate lifting equipment.
- Use trained personnel only, who know and understand the user instructions.

**Failure to follow these instructions can result in death, serious injury, or product damage.**

# Cubicles

## Cubicle handling and Lifting reinforcement kit

### Enclosures

Mounting		Cubicle handling and rolling base				
<b>Dimensions (mm)</b>		<b>D = 400</b>	<b>D = 600</b>	<b>L1200 to L1900</b>	<b>L2000 to L2550</b>	<b>L2650 to L3050</b>
2 cubicle handling base end-pieces		<b>LVS08714</b>	<b>LVS08716</b>	-	-	-
Cubicle handling		-	-	<b>LVS08705</b>	<b>LVS08706</b>	<b>LVS08707</b>
Characteristics	This type of base is designed to avoid any risk of cubicle deformation during transport and handling. Five different catalog numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles. <ul style="list-style-type: none"> <li>■ Two catalog numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware.</li> <li>■ Three catalog numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware.</li> </ul> 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.					

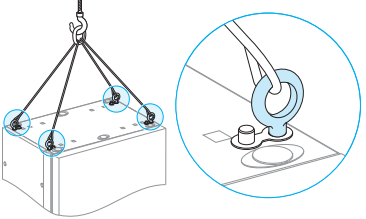
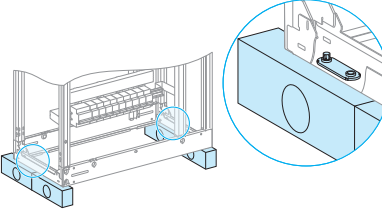
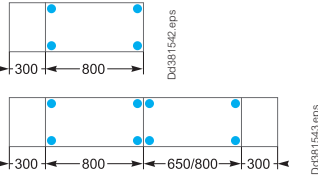
Mounting		Lifting reinforcement kit	
<b>Dimensions (mm)</b>		<b>D = 400, D = 600</b>	
Lifting reinforcement kit		<b>LVS08722</b>	
Characteristics	Kit LVS08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces LVS08714 or LVS08716 for severe transport or handling conditions. Catalog number LVS08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.		

Mounting		Seismic Kit	
Reinforcement bracket		<b>LVS08710</b>	
Characteristics	Catalog number ref LVS08710 includes 1 reinforcement bracket and 4 M6 screws. <ul style="list-style-type: none"> <li>■ Plinths are not allowed with seismic kits.</li> </ul>		

Type of cubicle	W300		W400		W650		W650 + W150	
	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600
Framework	<b>LVS08403</b>	<b>LVS08603</b>	<b>LVS08404</b>	<b>LVS08604</b>	<b>LVS08406</b>	<b>LVS08606</b>	<b>LVS08407</b>	<b>LVS08607</b>
Reinforcement bracket	<b>LVS08710</b> x 4				<b>LVS08710</b> x 4		<b>LVS08710</b> x 4	<b>LVS08710</b> x 6
Longitudinal cross men	<b>LVS08773</b>		<b>LVS08774</b>		<b>LVS03587</b> x 2			
Lateral cross member	<b>LVS03584</b> x 2	<b>LVS03584</b> x 2 + <b>LVS03586</b> x 2	<b>LVS03584</b> x 2	<b>LVS03584</b> x 2 + <b>LVS03586</b> x 2	<b>LVS03584</b> x 2	<b>LVS03584</b> x 2 + <b>LVS03586</b> x 2	<b>LVS03584</b> x 2	<b>LVS03584</b> x 2 + <b>LVS03586</b> x 2
M10 screw (not supplied)	4	4	4	4	4	4	4	6
Side panels IP55 mandatory for IP30 and IP55 configurations	<b>LVS08755</b>	<b>LVS08765</b>	<b>LVS08755</b>	<b>LVS08765</b>	<b>LVS08755</b>	<b>LVS08765</b>	<b>LVS08755</b>	<b>LVS08765</b>

# Installation accessories

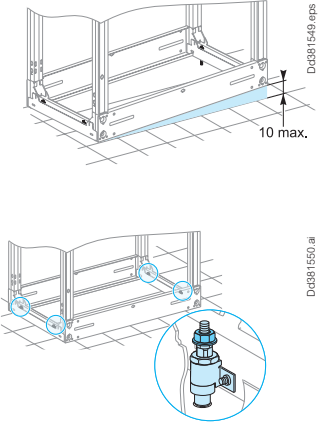
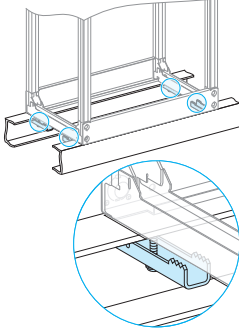
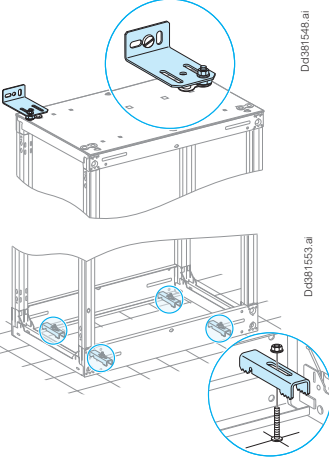
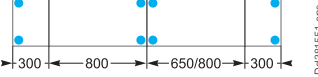
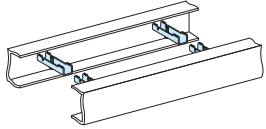
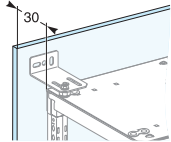
## Enclosures

Mounting	Lifting rings	Framework stabiliser kit
	 <p style="text-align: right; font-size: small;">Doc811541.ai</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;"><b>WARNING</b></p> <p><b>HAZARD OF DROPPING</b></p> <ul style="list-style-type: none"> <li>• Use strong slings with a valid use-by date when lifting with cranes.</li> <li>• Attach the slings to the 4 lifting rings of the cubicles.</li> <li>• For combined units, use lifting beam and slings for lifting.</li> <li>• Secure the plinth of floor standing enclosure using the fasteners.</li> </ul> <p><b>Failure to follow these instructions can result in death, serious injury, or equipment damage.</b></p> </div>	 <p style="text-align: right; font-size: small;">Doc811546.ai</p>
Cat. no.	<b>LVS08700</b>	<b>LVS08701</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Set of four lifting rings screwed to the framework.</li> <li>■ Use a set of lifting rings for each framework (W = 650 and 800 mm) containing devices.</li> <li>■ When two cubicles with devices have been combined, use a lifting beam.</li> <li>■ Can be installed and removed without removing the roof.</li> <li>■ Even if they are left attached, the switchboard conserves its original degree of protection.</li> </ul> <div style="margin-top: 10px;">  <p style="font-size: x-small;">Doc811542.eps      Doc811543.eps</p> </div> <p>Positions of the lifting rings for two combined cubicles containing devices. In this case, a lifting beam must be used.</p>	<ul style="list-style-type: none"> <li>■ Made up of four blocks under the framework.</li> <li>■ Suitable for all types of cubicles, whatever the width and depth.</li> <li>■ Increases the stability of the cubicle during mounting of devices.</li> <li>■ Makes possible cubicle handling using a pallet mover or a forklift.</li> <li>■ Protects the front, side and rear cover panels during handling.</li> <li>■ Can be reused.</li> </ul>



Installation accessories

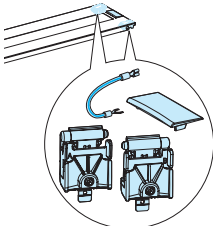
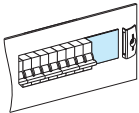
Enclosures

Mounting	Levelling kit	False floor fixing kit	Floor/wall fixing kit
	 <p>Dd381549.eps 10 max. Dd381550.ai</p>	 <p>Dd381547.ai</p>	 <p>Dd381548.ai Dd381553.ai</p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>WARNING</b></p> <p><b>HAZARD OF DROPPING</b></p> <ul style="list-style-type: none"> <li>• Use strong slings with a valid use-by date when lifting with cranes.</li> <li>• Attach the slings to the 4 lifting rings of the cubicles.</li> <li>• For combined units, use lifting beam and slings for lifting.</li> <li>• Secure the plinth of floor standing enclosure using the fasteners.</li> </ul> <p><b>Failure to follow these instructions can result in death, serious injury, or equipment damage.</b></p> </div>
<p>Cat. no.</p>	<p><b>LVS08702</b></p>	<p><b>LVS08703</b></p>	<p><b>LVS08704</b></p>
<p>Characteristics</p>	<ul style="list-style-type: none"> <li>■ Set of 4 fixtures.</li> <li>■ Can be installed at any time, even when the cubicle is already in position.</li> <li>■ Maximum adjustment range = 10 mm.</li> <li>■ Secures the cubicle to the floor.</li> </ul>  <p>Dd381551.eps Recommended positions of the fixtures for combined cubicles.</p>	<ul style="list-style-type: none"> <li>■ Made up of four independent clamps.</li> <li>■ clamp on:                             <ul style="list-style-type: none"> <li>□ "U" sections: H = 175 mm, W = 70 mm</li> <li>□ "I" sections: H = 120 mm, W = 64 mm</li> </ul> </li> <li>■ clamp travel = 11 mm</li> </ul>  <p>Dd381552.ai</p>	<ul style="list-style-type: none"> <li>■ Made up of two brackets and four clamps.</li> <li>■ Can be used to offset the switchboard fixing points for easier access.</li> <li>■ The wall brackets ensure sufficient wall clearance (at least 30 mm) for natural convection.</li> </ul>  <p>Dd381554.eps</p>

# Front plate accessories

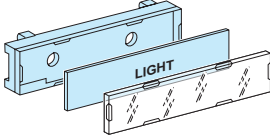
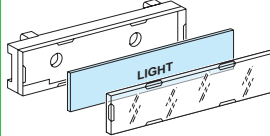
## Front plate accessories, blanking plates

## Enclosures

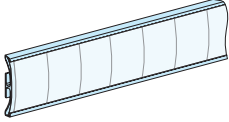
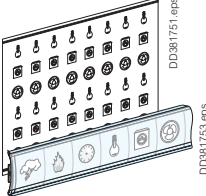
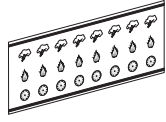
Used for	Front plate hinge kit	Blanking plates	
	 DD383950.eps	 DD384029.eps	
Cat. no.	<b>For</b> <b>LVS08585 (1)</b>	<b>For modular devices</b> <b>LVS03220</b>	<b>LVS03221</b>
Characteristics	<ul style="list-style-type: none"> <li>Set of 2 hinges</li> <li>1 earthing braid</li> </ul>	<ul style="list-style-type: none"> <li>Strip</li> <li>H = 46 mm, L = 1 m</li> </ul>	<ul style="list-style-type: none"> <li>Divisible</li> <li>Set of 4</li> <li>H = 46 mm, L = 90 mm</li> <li>White RAL 9003</li> </ul>

(1) With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. **LVS08585**). The earthing braid must be connected to the front plate frame support (cat no. **LVS08566**, **LVS08564**, **LVS08560**, **LVS08562** or else). With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. **LVS08566**, **LVS08564**, **LVS08560**, **LVS08562** or else) must be connected to the cubicle frame, using an earthing braid (cat no. **LVS08910** or **LVS08911**). (standard NF / EN 61439-1 2011 edition).





## Identification labels

Used for	Clip-on labels			Engraving plates		
	 DD383974.eps			 DD383975.eps		
Cat. no.	<b>LVS08913</b>	<b>LVS08915</b>	<b>LVS08917</b>	<b>LVS08914</b>	<b>LVS08916</b>	<b>LVS08918</b>
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"> <li>Set of 12</li> <li>The clip-on support is supplied with a paper label and a transparent cover.</li> <li>It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.).</li> </ul>			<ul style="list-style-type: none"> <li>Set of 12</li> <li>Simply replace the paper labels.</li> </ul>		

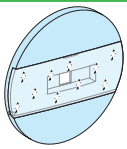
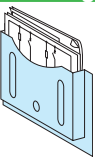
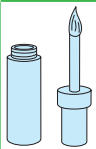


Used for	Adhesive labels				Symbol sheets	
	 DD381715.eps				 DD381751.eps	 DD381752.eps
Cat. no.	<b>LVS08905</b>	<b>LVS08906</b>	<b>LVS08903</b>	<b>LVS08904</b>	<b>13735</b>	<b>13736</b>
Dimensions (mm)	24 x 180	36 x 180	24 x 432	36 x 432		
Characteristics	<ul style="list-style-type: none"> <li>Set of 12</li> <li>The adhesive label holders are supplied with a paper label and a transparent cover.</li> </ul>				<ul style="list-style-type: none"> <li>Set of ten symbol sheets.</li> <li>Standard symbols:                             <ul style="list-style-type: none"> <li>Loads: sockets, lights, heating units, etc.</li> <li>Rooms: bedroom, bathroom, etc.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Set of ten symbol sheets.</li> <li>Special symbols:                             <ul style="list-style-type: none"> <li>Loads: lightning arrester, gate, swimming pool, etc.</li> <li>Rooms: technical room, computer room, etc.</li> </ul> </li> </ul>

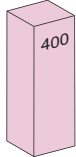
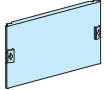
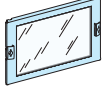
## Adhesive labels for mimic diagrams

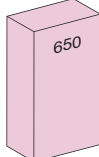
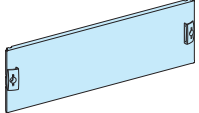
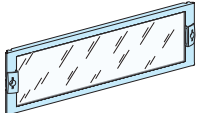
Used for	Lines	Outgoing arrows	Incoming arrows	Transformers
	 x 10	 x 10	 x 10	 x 10
Cat. no.	<b>LVS01005</b>	<b>LVS01006</b>	<b>LVS01007</b>	<b>LVS01008</b>
Characteristics	900 mm long and 7 mm thick Set of 10			

## Accessories

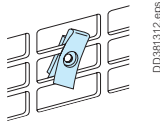
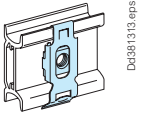
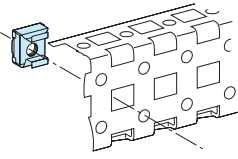
Used for	Switchboard identification plate	Drawing holder	Touch-up accessories
	 DD381721.eps	 DD381208.eps	 DD385506.eps
Cat. no.	<b>LVS08900</b>	<b>LVS08963</b>	<b>LVS08961</b>
Characteristics	Color: RAL 9003	Color: RAL 9003	Color: RAL 9003

# Reserve space

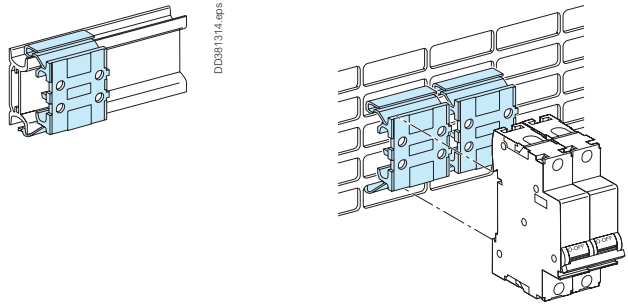
Reserve space																										
	 DB417928 eps																									
	<b>Plain front plate W = 250 mm</b>																									
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H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm																			
[1]	[2]	[3]	[4]	[5]	[6]	[9]	[13]																			
Catalog number	LVS03811	LVS03812	LVS03813	LVS03814	LVS03815	LVS03816	LVS03817	LVS03722																		
	 DB417929 eps																									
	<b>Transparent front plate W = 250 mm</b>																									
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H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm																			
-	-	-	[4]	-	[6]	[9]	-																			
Catalog number	-	-	LVS03352	-	LVS03353	LVS03354	-																			

Reserve space																										
	 DB417926 eps																									
	<b>Plain front plate W = 500 mm</b>																									
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H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm																			
[1]	[2]	[3]	[4]	[5]	[6]	[9]	[12]																			
Catalog number	LVS03801	LVS03802	LVS03803	LVS03804	LVS03805	LVS03806	-	LVS03808																		
	 DB417927 eps																									
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H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm																			
-	-	-	[4]	-	[6]	[9]	[12]																			
Catalog number	-	-	LVS03342	-	LVS03343	LVS03344	LVS03345																			

### Clip-nuts

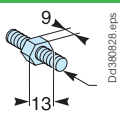
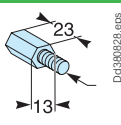
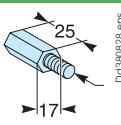
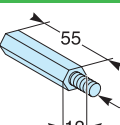
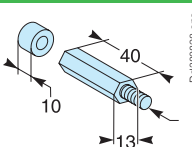
Mounting	For slotted mounting plates	For modular rails	For lateral and longitudinal cross-members
	 DD381312.eps	 DD381313.eps	 DD381612.eps
M4	<b>LVS03180</b>	<b>LVS03164</b>	-
M5	<b>LVS03181</b>	<b>LVS03165</b>	-
M6	<b>LVS03182</b>	<b>LVS03166</b>	<b>LVS03194</b>
Characteristics	Set of 20 Mounting of various devices	Set of 20 Mounting of various devices	Set of 20 Mounting in cubicles

### Pratic raiser

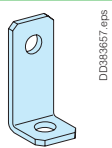
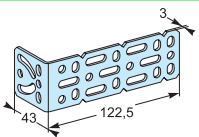
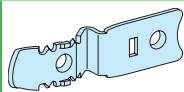
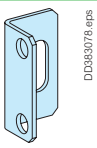

Raiser	
	 DD381314.eps DD381576.eps
Catalog number	<b>LVS04224</b>
Characteristics	Set of 5 Height 10 mm, wide 27 mm Color: RAL 9003, insulating material



### Hexagonal spacers

Hexagonal spacers					
	 DD383828.eps	 DD383828.eps	 DD383828.eps	 DD383828.eps	 DD383828.eps
M5	<b>LVS03185</b>	<b>LVS03186</b>	-	<b>LVS03187</b>	-
M6	<b>LVS03195</b>	<b>LVS03196</b>	<b>LVS03198</b>	<b>LVS03197</b>	-
M8	-	-	-	-	<b>LVS03199</b>
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

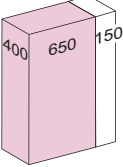
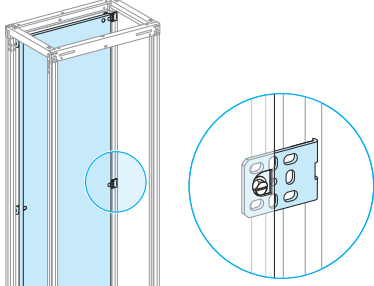
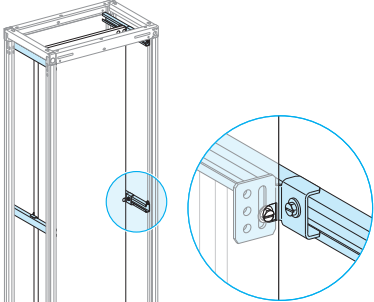
Universal angle brackets					
	 DD383857.eps	 DD381577.eps	 DD382920.eps	 DD383078.eps	 DD385531.eps
Catalog number	<b>LVS03580</b>	<b>LVS03581</b>	<b>LVS03582</b>	<b>LVS03583</b>	<b>LVS04667</b>
Characteristics	Set of 4 + vis	Set of 2	6 universal inserts	Set of 6	Set of 2

# Universal adapter

## Mounting on a plain backplate

Others

### Mounting on a plain backplate

Mounting	Plain backplate		Slide rails + angle brackets
	 <p style="text-align: right; font-size: small;">Dc0381174.ai</p>	 <p style="text-align: right; font-size: small;">Dc0381309.ai</p>	
Catalog number	<b>LVS03570</b>	<b>LVS03569</b>	<b>LVS03593</b>
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 **LVS03595** can be used for all mounting plates, except **LVS03030**.

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

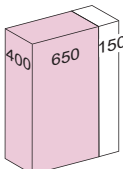
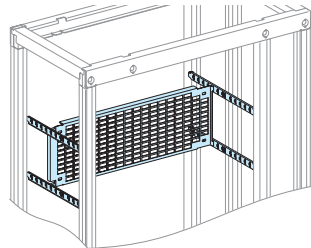
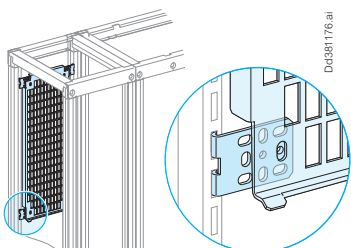
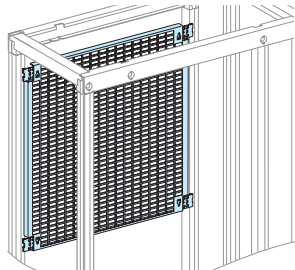
Others devices

Mounting on a slotted plate

Mounting on a modular rail

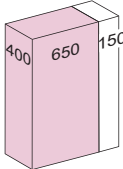
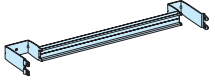
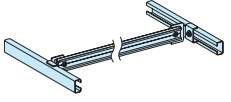
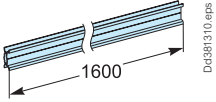
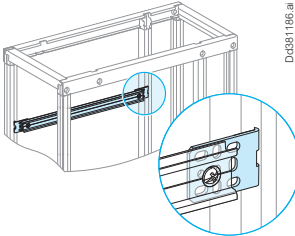
Others

Mounting on a slotted plate

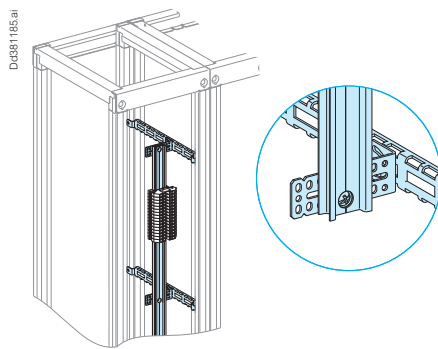
Mounting	Slotted mounting plates + lateral cross-members		Slotted mounting plate without lateral cross-members
			
Catalog number	<b>LVS03571</b>	<b>LVS03572</b>	<b>LVS03574</b>
Number of vertical modules	4	6	12
Height (mm)	200	300	600
2 universal angle brackets	-	2 x <b>LVS03581</b>	-
Characteristics	<p><b>Installation</b></p> <ul style="list-style-type: none"> <li>■ Either in the device zone on the four lateral cross-members (depth adjustment is possible).</li> <li>■ Or vertically at the rear of a cable compartment, W = 300 mm (LVS03571) or W = 400 mm (LVS03572).</li> </ul>		<ul style="list-style-type: none"> <li>■ Galvanised, slotted metal mounting plate.</li> <li>■ Supplied with four angle brackets, they connect directly to the rear of a framework, W = 650 mm or 800 mm (650 + 150 mm).</li> <li>■ The mounting plate can also be installed using two sets of two slide rails (LVS03593 x 2) for depth adjustment.</li> </ul>

D

Mounting on a modular rail

Mounting	Modular rails			Modular rail W = 650 mm
				
Catalog number	<b>LVS03401</b>	<b>LVS03402</b>	<b>LVS04226 (1)</b>	<b>LVS03590</b>
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. **LVS04226 + LVS03581 + LVS08794**: > page D-110.



Others

Straps and covers

Type	Horizontal cable straps	Covers for horizontal cable straps
	<p>Dc381622_R.eps Dc381616.eps</p>	<p>Dc381621.eps</p>
Catalog number	<b>LVS04239</b>	<b>LVS04243</b>
Characteristics	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
	<p>Dd4382320.eps Dc381626.eps</p>	<p>Dc382924.eps Dc382322.eps</p>
Catalog number	<b>LVS04255</b>	<b>LVS04256</b>
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). <b>Note:</b> 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
	<p>Dc381640.eps</p>	<p>Dc381638.eps</p>	<p>Dc381641.eps</p>
Catalog number	<b>LVS04267</b>	<b>LVS04257</b>	<b>LVS04233</b>
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
	<p>Dc384372.eps</p>	<p>Dd4383653.eps Dc384166.eps</p>
Catalog number	<b>LVS04235</b>	<b>LVS04234</b>
Characteristics	W = 500 mm, inner Ø = 19 mm	Set of 10. For wiring through front.
		<p>Dc384166.eps</p>
		<p>Dd4382719.eps</p>
Catalog number		<b>LVS01215</b>
Characteristics		5 square grommets 70 x 40.
		<p>Dd4382719.eps</p>
		<b>87648</b>
		50 grommets Ø22 mm.

## Connection accessories

### Cable-tie supports, lateral and longitudinal cross-members

Others

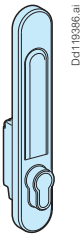
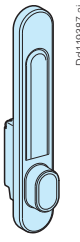
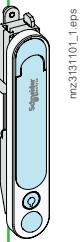
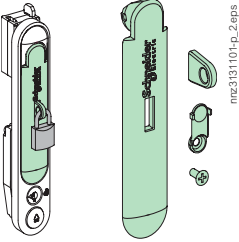
Mounting	Longitudinal cable-tie supports				Lateral cable-tie supports	
Catalog number	<b>LVS08773</b>	<b>LVS08774</b>	<b>LVS08776</b>	<b>LVS08778</b>	<b>LVS08794</b>	<b>LVS08796</b>
Characteristics	W = 300 mm	W = 400 mm	W = 650 mm	W = 800 mm	D = 400 mm	D = 200 mm
	Set of 4, supplied with the necessary 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
Catalog number	<b>LVS08783</b>
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"> <li>■ Universal angle bracket <b>LVS03581</b> (for the longitudinal support).</li> <li>■ Universal angle bracket <b>LVS03582</b> (for the lateral support).</li> <li>■ Modular rail <b>LVS03593</b> (for depth adjustment).</li> </ul>

Mounting	Lateral cross-members	Longitudinal cross-members	
Catalog number	<b>LVS03584</b>	<b>LVS03586</b>	<b>LVS03587</b>
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.		

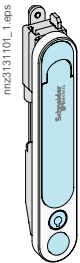

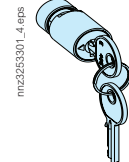


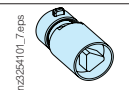
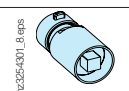
### Handles and padlocking

Others

	EURO handle	ASSA/ABLOY handle	RAL 7016 rotary handle	Padlocking
	 Dd110386.ai	 Dd110387.ai	 mrc3131101_L1.eps	 mrc3131101-p_2.eps
Cat. no.	<b>LVS07932</b>	<b>LVS07933</b>	<b>LVS07931</b>	<b>LVS07938</b>
Characteristics	Supplied without barrel	Supplied without barrel	Supplied with barrel lock (key no. 405) RAL 7016	For new rotary handle


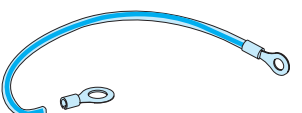
### Barrel locks, inserts

The barrel locks and inserts below can mount on all the door handles of PrismaSeT P range after removing the standard barrel lock (key n°405).

Barrels & inserts for rotary handle		Characteristics	Catalog numbers
 mrc3131101_L1.eps	 mrc2168101_3.eps	1 key no. 405	<b>LVS07940</b>
	 mrc2323301_4.eps	2 keys no. 455	<b>LVS07941</b>
		2 keys no. 1242E	<b>LVS07942</b>
		2 keys no. 3113A	<b>LVS07943</b>
		2 keys no. 2433A	<b>LVS07944</b>
		2 keys no. 2432E	<b>LVS07956</b>
	 mrc2323701_5.eps	DIN double bar insert	<b>LVS07945</b>
 mrc2323801_6.eps	Screwdriver slot insert	<b>LVS07946</b>	
 mrc2254101_7.eps	Male triangle insert	8 mm	<b>LVS07949</b>
 mrc2354301_8.eps	Male square insert	6 mm 8 mm	<b>LVS07951</b> <b>LVS07953</b>

### Earthing braid

Earthing braid is used to earth a door or wicket door with devices.

	Earthing braid, 6 mm <sup>2</sup>	Earthing wire, 6 mm <sup>2</sup>
	 DD384368.eps	 DD384368.eps
Catalog numbers	<b>LVS08910</b>	<b>LVS08911</b>
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.

## Ventilation accessories

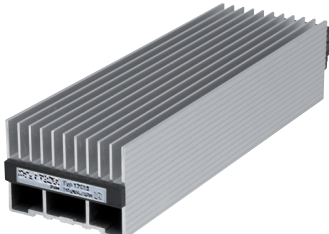

### Heat

Others


### 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"> <li>■ Vertical mounting.</li> <li>■ Aluminium case with fins.</li> <li>■ Temperature:                             <ul style="list-style-type: none"> <li>□ Turns off at 60 °C.</li> <li>□ Turns on at 25-30 °C (temperature of the resistor itself).</li> </ul> </li> <li>■ Equipped with a symmetrical.</li> </ul>					<ul style="list-style-type: none"> <li>■ Vertical mounting.</li> <li>■ Aluminium case with fins.</li> <li>■ Temperature:                             <ul style="list-style-type: none"> <li>□ Turns off at 60 °C.</li> <li>□ Turns on at 25-30 °C (temperature of the resistor itself).</li> </ul> </li> <li>■ Equipped with a symmetrical.</li> </ul>	

### Thermofan

Thermofan	
	
Terminal block	
Cat. no.	NSYCRP1W230VTVC
Power rating (W)	400/550
Voltage (V)	230 AC
Characteristics	<ul style="list-style-type: none"> <li>■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure.</li> <li>■ Fixing by clip on a DIN rail.</li> <li>■ Thermostat adjustable from 0...+60 °C.</li> <li>■ Visual operation indicator.</li> </ul>

# Ventilation accessories


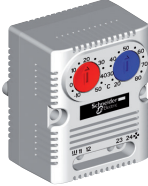

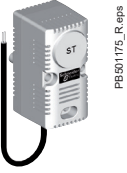
## Regulating

Others

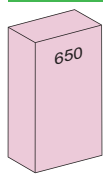
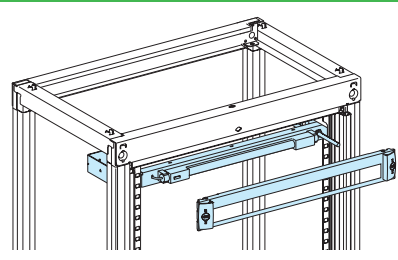
### Regulating

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.

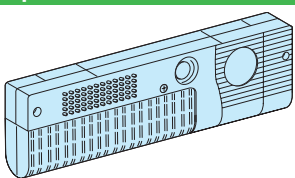
	Mechanical thermostats		Electronical thermostats		
					
	<b>Thermostat with OF contact</b>	<b>Double thermostat</b>	<b>Electronical thermostat</b>	<b>Electronic hygrotherm</b>	<b>Electronic hygrostat</b>
Cat. no.	<b>NSYCCOTHI</b>	<b>NSYCCOTH</b>	<b>NSYCCOTH230VID</b>	<b>NSYCCOHT230VID</b>	<b>NSYCCOHT230VID</b>
Colour of the button	Black	<ul style="list-style-type: none"> <li>Red: with normally closed contact (NC) for controlling the resistance heaters.</li> <li>Blue: with normally open contact (NO) for controlling the fans, signalling systems or alarms.</li> </ul>	-	-	-
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 Ø= 0,6) 30 W DC	-	-	-
Max interrupting capacity with direct current	250 V AC 4 A (charge inductive Ø = 0,6) 30 W DC	-	-	-	-
Connection	Four 2.5 mm <sup>2</sup> terminals	Six 2.5 mm <sup>2</sup> terminals	2 x 2.5 mm <sup>2</sup> (input voltage) + 2 relays (2 x 2.5 mm <sup>2</sup> + 2 x 2.5 mm <sup>2</sup> )	2 x 2.5 mm <sup>2</sup> (input voltage) + 2 relays (2 x 2.5 mm <sup>2</sup> + 2 x 2.5 mm <sup>2</sup> )	2 x 2.5 mm <sup>2</sup> (input voltage) + 1 relay (2 x 2.5 mm <sup>2</sup> )
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"> <li>Ingress protection rating: IP20.</li> <li>Contact resistance: &lt; 10 mΩ.</li> <li>Service life: &gt; 100 000 cycles.</li> <li>Fixing:by clip on a 35-mm DIN rail.</li> <li>Case : plastic UL 94 V-0, light grey.</li> <li>Operating temperature : -20...+80 °C (-4...+176 °F).</li> <li>Display : °C/°F.</li> <li>Max. command intensity: (NC) 5 A (NO) 10 A.</li> </ul>		<ul style="list-style-type: none"> <li>Ingress protection rating: IP20.</li> <li>Certification : UL/UR.</li> <li>Fixing: 4 different methods: on DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate.</li> <li>Boîtier : plastique UL 94 V-0, gris clair.</li> <li>Operating temperature : -40 °C...+80 °C.</li> <li>Display : °C/°F.</li> <li>Max. command intensity: 8 (5) A 230 V AC / 5 A 30 V DC.</li> </ul>		
<b>PTC external temperature sensor (double insulation)</b>					
					
Cat. no.	<b>NSYCCASTE</b>				
Characteristics	<ul style="list-style-type: none"> <li>Sensor operation or reading range: -30 °C...+80 °C.</li> <li>IP67.</li> <li>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.</li> <li>Hygrostat installation tips: the hygrostat should be installed at the bottom of the enclosure. 60 % RH is the optimum value in the enclosure.</li> </ul>				

### Lighting system

Fixed lighting	
	
<b>Catalog number</b>	<b>LVS08964</b>
<b>Presentation</b>	<p>This system is generally used to illuminate the front of a switchboard.</p> <ul style="list-style-type: none"> <li>■ The kit is made up of:                             <ul style="list-style-type: none"> <li>□ A base</li> <li>□ A neon tube</li> <li>□ A front plate with cut-out (1 module)</li> <li>□ A door contact</li> </ul> </li> </ul>
<b>Characteristics</b>	<ul style="list-style-type: none"> <li>■ Supply voltage: 220/240 V</li> <li>■ Power rating: 8 W</li> <li>■ Height: 1 vertical module (50 mm)</li> </ul>



### Switchboard portable lamp

Switchboard portable lamp	
	
<b>Catalog number</b>	<b>LVS08965</b>
<b>Presentation</b>	<ul style="list-style-type: none"> <li>■ Lamp with a magnetic base for installation behind a door or directly on the cubicle framework.</li> <li>■ Supplied without a power cord.</li> <li>■ H x W x D: 90 x 345 x 42</li> </ul>
<b>Characteristics</b>	<ul style="list-style-type: none"> <li>■ Supply voltage: 220/240 V</li> <li>■ Power rating: 11 W</li> <li>■ Lamp: picoline OSRAM 8W (supplied)</li> <li>■ Class 2</li> <li>■ IP20</li> </ul>

# Functional Units

## Contents

## Circuit breakers

<b>MasterPact MTZ2</b>	
Cables connection	D-36
Canalis connection	D-38
Partial front plate support frames	D-40
<b>MasterPact MTZ1</b>	
Cables connection	D-42
Canalis connection	D-43
Dedicated cubicle 3P - W = 400 mm	D-44
<b>ComPacT NS1600b to 3200 (only for feeder cubicles)</b>	
Cables connection	D-46
<b>ComPacT NS630b to NS1600</b>	
Cables connection	D-47
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<b>ComPacT NS630b to 1000</b>	
Horizontal mounting	D-49
ComPacT NS630b to 1600	D-50
ComPacT NSX 100 to 630	D-52
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## Switch-disconnectors

ComPacT INS-INV630b to 2500 (only for feeder cubicles)	D-56
ComPacT INS-INV250 to 630 (only for feeder cubicles)	D-57

## Source-changeover

MasterPact MTZ1 06/16, MTZ2 08/32	D-58
MasterPact MTZ2 08/32	D-59
MasterPact MTZ1 06/16	D-63
<b>Manual source-changeover</b>	
ComPacT NSX100/630	D-66
<b>Remote-operated source-changeover</b>	
ComPacT NSX100/630	D-67

## Fusegear

Fupact ISFL	D-68
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## Fusegear/Switch-disconnector

Fupact ISFT	D-69
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## Others

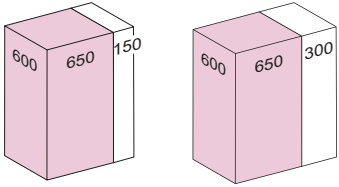
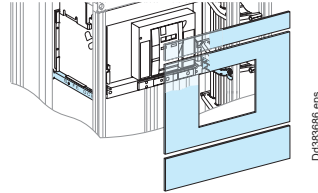
Power factor correction equipment	D-71
Industrial control devices	D-72
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<b>Metering</b>	
Single-phase and 3-phase kilowatt-hour meters	D-75
<b>Metering and human-switchboard interface</b>	
PowerLogic™ Meters	D-76

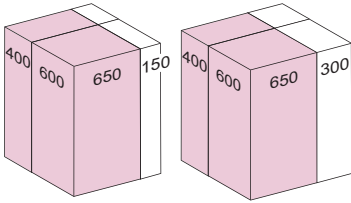
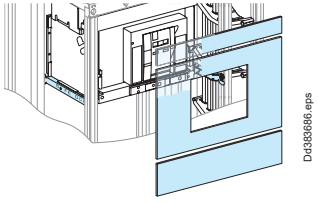
# MasterPact MTZ2 08 to 32


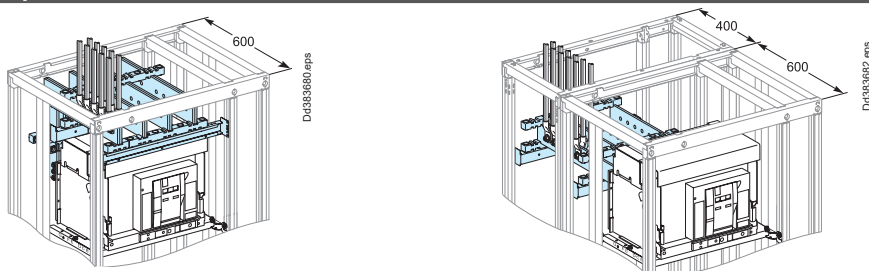
## Cables connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules <sup>(1)</sup>		18	19	19	20
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates		upstream LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
[No. of vertical modules]		with cut-out	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
		downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		14	14	15	15
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates		with cut-out	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
[No. of vertical modules]		downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Connection		Upstream on incomer	
			
Devices		Fixed device	Withdrawable device
		MTZ2 08/32	MTZ2 08/32
Type of terminals		Vertical rear connections supplied with the device	
Connection		must be made <sup>(2)</sup>	
Front connection		bar supports cables cover	
		2 x LVS04694 + LVS04678 LVS04861	
Rear connection		bar supports cables cover	
		2 x LVS04694 LVS04863	

(1) For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200 A. Select downstream plain front plate (LVS03806).


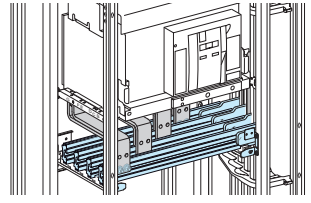
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

# MasterPact MTZ2 08 to 32

## Cables connection

Fixed, withdrawable

Circuit breakers

Distribution		Downstream on Lineryy LGY, LGE busbars					
							
Devices		Fixed and withdrawable MTZ2 08/16		Fixed and withdrawable MTZ2 20/25		Fixed and withdrawable MTZ2 32	
		3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device.					
For vertical busbar Lineryy LGE	Connection	LVS04493	LVS04494	must be made according to the busbar drawings supplied by Schneider Electric.			
	Joint	LVS04683	LVS04684	-			
	Free support	-	-	2 x LVS04662 For I <sub>cw</sub> ≥ 75 kA rms, add an additional free support LVS04662.			
	Cover	LVS04925 + LVS04928		LVS04926 + LVS04927			
For vertical busbar Lineryy LGE (1)	Connection	-	-	LVS04495	LVS04496	LVS04497 (2)	LVS04498 (2)
	Joint	-	-	3 x LVS04685	4 x LVS04685	3 x LVS04687	4 x LVS04687
	Free support	2 x LVS04662 For I <sub>cw</sub> ≥ 75 kA rms, add an additional free support LVS04662.					
	Cover	LVS04925 + LVS04928					

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

(2) One additional module is required, select LVS03806 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 (LVS03801) or install a Micrologic control unit capable of displaying the values.

Selection of busbars: Lineryy LGE > page D-83, Lineryy LGE > page D-84.

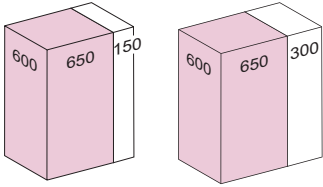
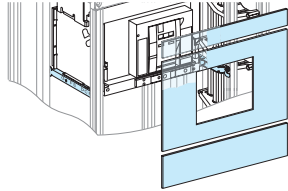


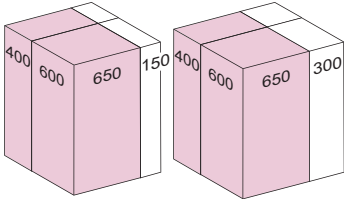
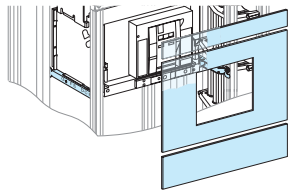
# MasterPact MTZ2 08 to 32


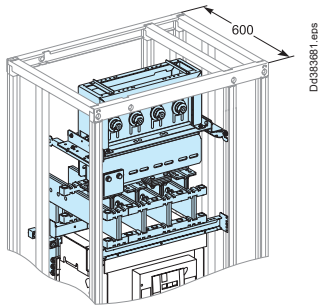
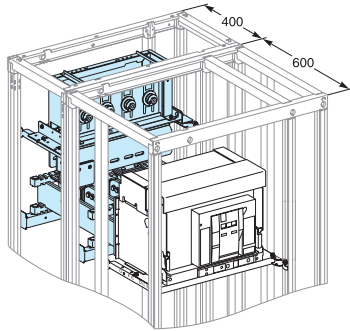
## Canalis connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules <sup>(1)</sup>		27	28	27	28
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03805 [5] 2 x LVS03804 [8]	2 x LVS03805 [10] LVS03804 [4]	3 x LVS03804 [12]	LVS03805 [5] 2 x LVS03804 [8]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		16	16	17	17
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]

Connection		Upstream on incomer											
													
Devices		Fixed device			Withdrawable device								
		MTZ2 08/16	MTZ2 20/25	MTZ2 32	MTZ2 08/16	MTZ2 20/25	MTZ2 32	MTZ2 08/16	MTZ2 20/25	MTZ2 32	MTZ2 32		
Type of terminals		Vertical rear connections supplied with the device											
Canalis support		LVS03561											
Canalis interface <sup>(2)</sup>		3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
		LVS04715	LVS04716	LVS04725	LVS04726	LVS04735	LVS04736	LVS04715	LVS04716	LVS04725	LVS04726	LVS04735	LVS04736
Front connection	Bar supports	2 x LVS04694 + LVS04678											
	Extension bars	must be made <sup>(3)</sup>											
	Canalis Cover	LVS04871 + LVS04861											
Rear connection	Bar supports	2 x LVS04694											
	Extension bars	must be made <sup>(3)</sup>											
	Canalis Cover	LVS04871 + LVS04863											

(1) For downstream connection with copper.

For downstream prefabricated connection with Linergy LGEY, 1 additional module is required only for MTZ2 3200 A. Select downstream plain front plate (LVS03806).

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


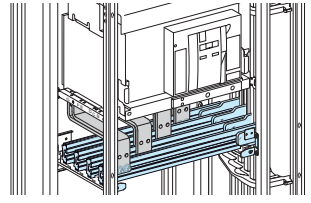
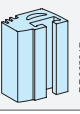
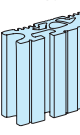
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

# MasterPact MTZ2 08 to 32

Canalis connection

Fixed, withdrawable

Circuit breakers

Distribution		Downstream on Linergy LGY, LGYE busbars					
							
<b>Fixed / Withdrawable devices</b>		<b>MTZ2 08/16</b>		<b>MTZ2 20/25</b>		<b>MTZ2 32</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Type of terminals		Front connections supplied with the device.					
For vertical busbar Linergy LGY 	Connection	<b>LVS04493</b>	<b>LVS04494</b>	must be made according to the busbar drawings supplied by Schneider Electric.			
	Joint	<b>LVS04683</b>	<b>LVS04684</b>	-			
	Free support	-	-	2 x <b>LVS04662</b> For $I_{cw} \geq 75$ kA rms, add an additional free support <b>LVS04662</b> .			
	Cover	<b>LVS04925 + LVS04928</b>		<b>LVS04926 + LVS04927</b>			
For vertical busbar Linergy LGYE <sup>(1)</sup> 	Connection	-	-	<b>LVS04495</b>	<b>LVS04496</b>	<b>LVS04497</b> <sup>(2)</sup>	<b>LVS04498</b> <sup>(2)</sup>
	Joint	-	-	3 x <b>LVS04685</b>	4 x <b>LVS04685</b>	3 x <b>LVS04687</b>	4 x <b>LVS04687</b>
	Free support	2 x <b>LVS04662</b> For $I_{cw} \geq 75$ kA rms, add an additional free support <b>LVS04662</b> .					
	Cover	<b>LVS04925 + LVS04928</b>					

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

(2) One additional module is required, select **LVS03806** 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 (**LVS03801**) or install a Micrologic control unit capable of displaying the values. Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.



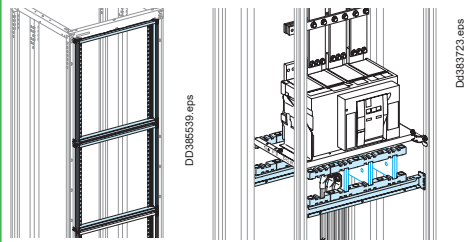
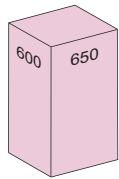
# MasterPact MTZ2 08 to 32

## Partial front plate support frames

Withdrawable

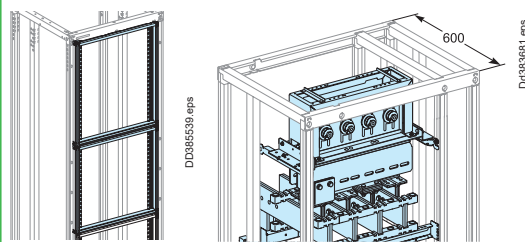
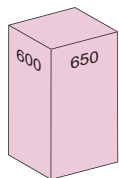
Circuit breakers

### Mounting Front connection with cables in dedicated cubicle



<b>Devices</b>	<b>Withdrawable device</b>	
	<b>MTZ2 08/32</b>	
No. of vertical modules	36 <sup>(3)</sup>	
Mounting plates	LVS03500	
Front plates [No. of vertical modules]	upstream	2 x LVS03806 [12]
	with cut-out	LVS03709 [10]
	downstream	2 x LVS03806 [12]
1/3 front plate support frame	LVS08560 <sup>(1)</sup> + 2 x LVS08562 <sup>(2)</sup>	
Cover	LVS04861	

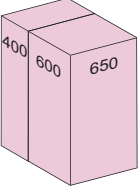
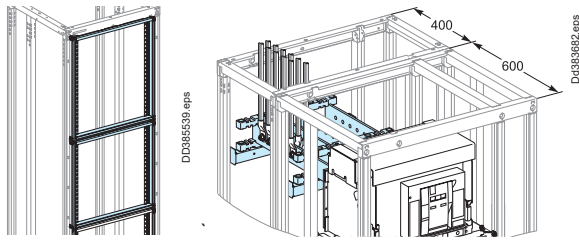
### Mounting Canalis front connection



<b>Devices</b>	<b>Withdrawable device</b>	
	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
No. of vertical modules	27 <sup>(3)</sup>	28 <sup>(3)</sup>
Mounting plates	LVS03500	
Front plates [No. of vertical modules]	upstream	3 x LVS03804 [12]
	with cut-out	LVS03709 [10]
	downstream	LVS03804 [4]
1/3 front plate support frame	LVS08560 <sup>(1)</sup> + 2 x LVS08562 <sup>(2)</sup>	
Cover	LVS04861	

MasterPact MTZ2 08 to 32  
 Partial front plate support frames  
 Withdrawable

Circuit breakers

Mounting		Rear connection with cables	
			
<b>Devices</b>	<b>Withdrawable device</b>		
	<b>MTZ2 08/32</b>		
No. of vertical modules	<b>15 <sup>(3)</sup></b>		
Mounting plates	<b>LVS03500</b>		
Front plates	upstream	-	
[No. of vertical modules]	with cut-out	<b>LVS03709 [10]</b>	
	downstream	<b>LVS03804 [4]</b>	
1/3 front plate support frame	<b>LVS08560 <sup>(1)</sup> + 2 x LVS08562 <sup>(2)</sup></b>		

(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.



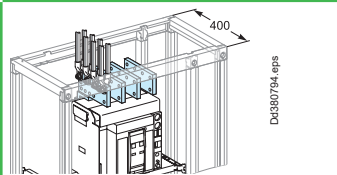
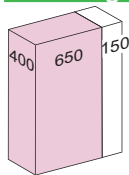
# MasterPact MTZ1 06 to 16

## Cables connection

Toggle, motor mechanism - Fixed, withdrawable

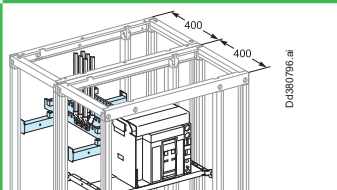
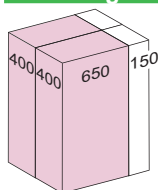
Circuit breakers

### Mounting Front connection with cables



Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Number of devices per row		1	1	1	1
No. of vertical modules		12	14	13	15
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]

### Mounting Rear connection with cables



Devices		Fixed device		Withdrawable device	
		MTZ1 06/16	MTZ1 06/16	MTZ1 06/16	MTZ1 06/16
Number of devices per row		1	1	1	1
No. of vertical modules		11	11	11	11
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	LVS03801 [1]	-	-
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]

### Connection Upstream on incomer



Devices		Fixed device				Withdrawable device			
		MTZ1 06/10		MTZ1 12/16		MTZ1 06/10		MTZ1 12/16	
		3P	4P	3P	4P	3P	4P	3P	4P
Front connection	type of terminals	Front connections supplied with the device							
	vert. connection adapters	33642 (1)	33643 (1)	33642 (1)	33643 (1)	33642 (1)	33643 (1)	33642 (1)	33643 (1)
	cable-lug adapters	Direct		33644 (1)	33645 (1)	Direct		33644 (1)	33645 (1)
	spacing rods	-		LVS04691		-		LVS04691	
	arc-chute cover	47335	47336	47335	47336	-			
cables cover		LVS04852							
Rear connection	type of terminals	Vertical rear connections supplied with the device							
	terminal extension bar support	2 x LVS04693							
	cables cover	LVS04854							
	extension bars	must be made (2)							

### Distribution Downstream on Linergy LGY or LGYE busbars



Devices		Fixed device				Withdrawable device			
		MTZ1 06/12		MTZ1 16		MTZ1 06/12		MTZ1 16	
		3P	4P	3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device							
Prefabricated connection to busbars	Linergy LGY	LVS04475	LVS04476	LVS04489	LVS04490	LVS04477	LVS04478	LVS04491	LVS04492
	Linergy LGYE	must be made (2)							
Cover for busbars connection		add free supports: 2 x LVS04662							
		LVS04926							

(1) Vertical connection adapters and cable-lug adapters and CT, are not compatible with input voltage ≥ 440 V due to mandatory barriers installation (LVS33648 or LVS33768)

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

**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 (LVS03801) or install a Micrologic control unit capable of displaying the values.

Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.

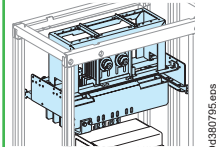
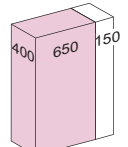
# MasterPact MTZ1 06 to 16

Canalis connection

Toggle, motor mechanism - Fixed, withdrawable

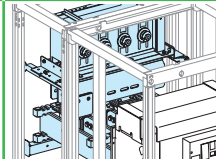
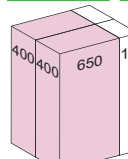
Circuit breakers

## Mounting Canalis front connection



Devices	Fixed device		Withdrawable device	
	MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16
Number of devices per row	1	-	1	-
No. of vertical modules	17	-	18	-
Mounting plates	LVS03484	-	LVS03483	-
Front plates	upstream LVS03804 [4] + LVS03803 [3]	-	LVS03804 [4] + LVS03803 [3]	-
[No. of vertical modules]	with cut-out LVS03692 [7]	-	LVS03691 [8]	-
	downstream LVS03803 [3]	-	LVS03803 [3]	-

## Mounting Canalis rear connection



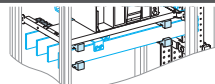
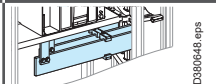
Devices	Fixed device		Withdrawable device	
	MTZ1 06/16	MTZ1 16	MTZ1 06/16	MTZ1 16
Number of devices per row	1	-	1	-
No. of vertical modules	16	-	16	-
Mounting plates	LVS03484	-	LVS03483	-
Front plates	upstream LVS03806 [6]	-	LVS03805 [5]	-
[No. of vertical modules]	with cut-out LVS03692 [7]	-	LVS03691 [8]	-
	downstream LVS03803 [3]	-	LVS03803 [3]	-

## Connection Upstream on incomer



Devices	Fixed device				Withdrawable device			
	MTZ1 06/12		MTZ1 16		MTZ1 06/12		MTZ1 16	
	3P	4P	3P	4P	3P	4P	3P	4P
Canalis support	LVS03561				-			
Canalis interface (1)	LVS04703	LVS04704	LVS04703	LVS04704	LVS04703	LVS04704	LVS04703	LVS04704
Front connection	Front connections supplied with the device							
Type of terminals	-							
Canalis/device connection	LVS04711	LVS04712	-		LVS04711	LVS04712	-	
Arc-chute cover	47335	47336	-		-		-	
Canalis cover	LVS04871 + LVS04852				LVS04871 + LVS04852			
Rear connection	Vertical rear connections supplied with the device							
Type of terminals	-							
Terminal extension bar support	2 x LVS04693				-			
Canalis/device connection	LVS04713	LVS04714	LVS04713	LVS04714	LVS04713	LVS04714	LVS04713	LVS04714
Cable cover	LVS04871 + LVS04854							
Extension bars	must be made (2)							

## Distribution Downstream on Linergy LGY or LGYE busbars



Devices	Fixed device				Withdrawable device			
	MTZ1 06/12		MTZ1 16		MTZ1 06/12		MTZ1 16	
	3P	4P	3P	4P	3P	4P	3P	4P
Type of terminals	Front connections supplied with the device							
Prefabricated connection to busbars	Linerigy LGY LVS04475	LVS04476	LVS04489	LVS04490	LVS04477	LVS04478	LVS04491	LVS04492
	Linerigy LGYE must be made (2)							
	add free supports: 2 x LVS04662							
Cover for busbars connection	LVS04926							

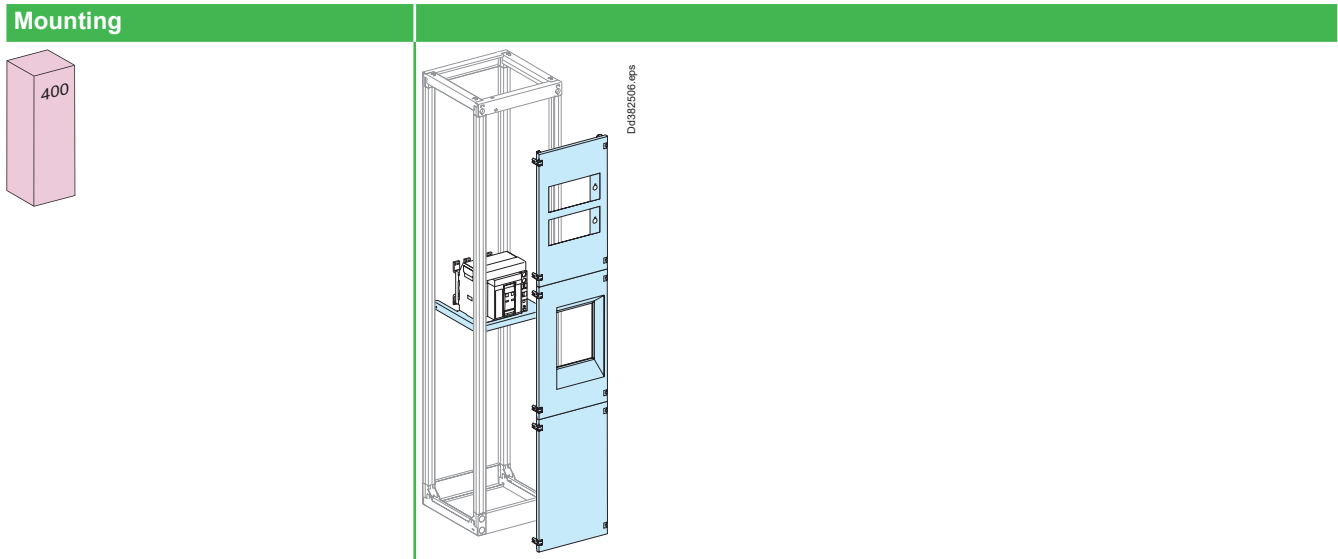
(1) To tight the screws of the Canalis interface use the special tool 87808.  
 (2) Connection to be made according to the busbar drawings supplied by Schneider Electric.  
**Note:** To make measurements, install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.  
 Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.

# MasterPact MTZ1 06 to 16

Dedicated cubicle 3P - W = 400 mm

Fixed, withdrawable

Circuit breakers



Devices	Fixed device	Withdrawable device
	<b>MTZ1 06 to MTZ1 16</b>	
Number of devices per cubicle	1	1
No. of vertical modules	<b>37</b>	<b>37</b>
Mounting plates	<b>LVS03489</b>	<b>LVS03488</b>
Front plates		
with cut-out	<b>LVS03698 [11]</b>	<b>LVS03699 [11]</b>
[No. of vertical modules]		
upstream <sup>(1)</sup> cut-out for 72 x 72 or 96 x 96 mm	<b>LVS03723 [13]</b>	<b>LVS03723 [13]</b>
or plain	<b>LVS03722 [13]</b>	<b>LVS03722 [13]</b>
downstream <sup>(1)</sup> plain	<b>LVS03722 [13]</b>	<b>LVS03722 [13]</b>

## Measurement-device installation

Measurement devices are installed on a front plate (**LVS03723**) 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
<b>Mounting on interface with plastic mounting plates</b>				
3 x <b>72 x 72</b> Vigirex and other devices 72 x 72 without switch		13		 To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45
2 x <b>96 x 96</b> Power Meter and others devices 96 x 96				 To blank-off or install: - 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45 - 1 device 72 x 72
1 x <b>96 x 96</b> For PM200, 200P, PM5 & PM8 series meters	<b>LVS03723</b>		<b>LVS03903</b>	<b>LVS03901</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Installation of three devices (72 x 72 mm cases) using plastic mounting plates (<b>LVS03902</b>) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (<b>LVS03903</b>) on a hinged front plate (<b>LVS03723</b>).</li> <li>■ The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices. Knock-outs for LVS03900: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device. Knock-outs for LVS03901: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device.</li> </ul>			


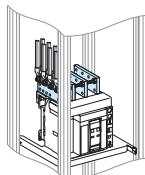
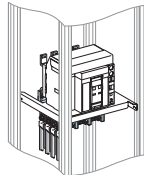
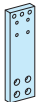


(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.

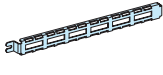
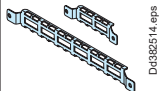
(2) For PM200, 200P, PM5 & PM8 series meters, use 1 no. blank-off sheet with each meter in a row.

# MasterPact MTZ1 06 to 16


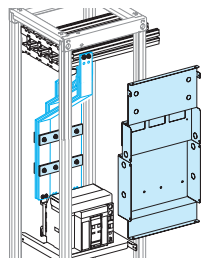
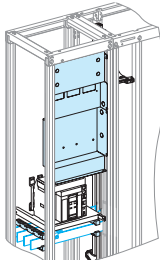

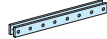

Dedicated cubicle 3P - W = 400 mm  
Fixed, withdrawable

Circuit breakers

Connection	Upstream on incomer	
	 DD382672_1.eps	 DD382689.eps
<b>Devices</b>	<b>Fixed device</b>	<b>Withdrawable device</b>
	<b>MTZ1 06 to MTZ1 16</b>	
Type of terminals	Front connection	Front connection
		
Arc-chute cover	<b>47335</b>	-
		
Vert. conn. adapters	<b>33642 (1)</b>	<b>33642 (1)</b>
Cable-lug adapters	<b>33644 (1)</b>	<b>33644 (1)</b>
Spacing rods	<b>LVS04691</b>	<b>LVS04691</b>
		

Accessories		
	 DD382513.eps	 DD382514.eps
	<b>W = 400</b>	<b>D = 400</b> <b>D = 600</b>
4 cable tie supports for framework	<b>LVS08774</b>	<b>LVS08794</b> <b>LVS08794 + LVS08796</b>

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

Distribution	Downstream on horizontal busbars Linery LGE	Downstream on vertical busbars Linery LGE
	 DD384890.eps	 DD3853814.eps
<b>Fixed / Withdrawable devices</b>	<b>MTZ1 06 to MTZ1 16</b>	<b>MTZ1 06 to MTZ1 16</b>
Type of terminals	Front connection	Front connection
		
Support	2 x <b>LVS04692</b> For MTZ1 H1 & H2 3 x <b>LVS04692</b> For MTZ1 H3	<b>LVS04662</b>
		
Barrier (1)	<b>LVS04855</b>	<b>LVS04855</b>
		
Horizontal-busbar connections	must be made (2)	-
10 mm thickness bars	-	-
Vertical-busbar connections	-	must be made (2)
Free support	-	<b>LVS04662</b>

(1) A barrier must be installed behind front plate **LVS03723** when measurement devices are installed.

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

(3) Catalog number **LVS04636** includes 1 connection only. Order 1 connection per phase.

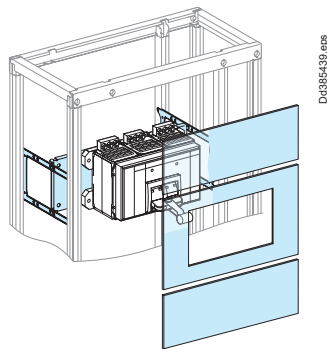
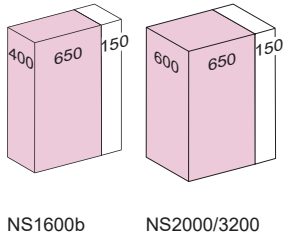
ComPacT NS1600b to 3200 (only for feeder cubicles)

Cables connection

Fixed

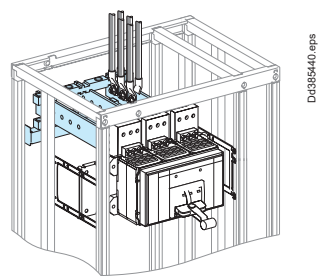
Circuit breakers

**Mounting** | **Front connection**



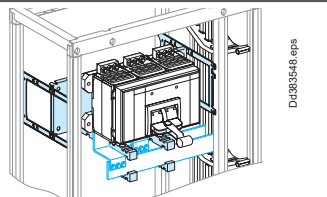
Devices		Fixed device	
		NS1600b	NS2000/3200
Number of devices per row		1	1
No. of vertical modules		14	16
Mounting plates		LVS03501	LVS03501
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03802 [2]
	with cut-out	LVS03716 [8]	LVS03716 [8]
	downstream	LVS03804 [4]	LVS03806 [6]

**Connection** | **Upstream on incomer**



Fixed devices		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		LVS04694	
Extension bars		must be made <sup>(1)</sup>	

**Distribution** | **Downstream on Linergy LGY or LGYE busbars**



Fixed devices		NS1600b	NS2000/2500	NS3200
Type of terminals		Front connections supplied with the device		
Busbars connection		must be made <sup>(1)(2)</sup>		
Free support for busbars connection		2 x LVS04662		
Cover for busbars connection	LVS04926	LVS04926	LVS04926	LVS04926
Additional cover	-	LVS04927	LVS04927	LVS04927

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric. LGYE: +17.5 mm than BS.

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

- 1 joint for busbars, W = 50/60 mm (LVS04640)
- 1 joint for busbars, W = 80/100 mm (LVS04641)

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 (LVS03801)
- Or install a Micrologic control unit capable of displaying the values.

Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.

# ComPacT NS630b to NS1600

## Cables connection

Toggle, rotary handle, motor mechanism - Fixed, withdrawable

Circuit breakers

Mounting		Front connection with cables			
Devices		Fixed device		Withdrawable device	
		NS630b/1000	NS1250/1600	NS630b/1000	NS1250/1600
Number of devices per row		1	1	1	1
No. of vertical modules		12	14	13	15
Mounting plates		LVS03482	LVS03482	LVS03483	LVS03483
Front plates		upstream	LVS03802 [2]	LVS03802 [2]	LVS03804 [4]
[No. of vertical modules]		with cut-out	LVS03690 or LVS03701 <sup>(1)</sup> [7]	LVS03691 [8]	LVS03691 [8]
		downstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [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		LVS03482	LVS03483
Front plates		with cut-out	LVS03691 [8]
[No. of vertical modules]		downstream	LVS03803 [3]

Connection		Upstream on incomer							
Devices		Fixed device				Withdrawable device			
		NS630b/1000		NS1250/1600		NS630b/1000		NS1250/1600	
		3P	4P	3P	4P	3P	4P	3P	4P
Front connection		Type of terminals							
		Vertical connection adapters							
		33642 <sup>(3)</sup>	33643 <sup>(3)</sup>	33642 <sup>(3)</sup>	33643 <sup>(3)</sup>	33642 <sup>(3)</sup>	33643 <sup>(3)</sup>	33642 <sup>(3)</sup>	33643 <sup>(3)</sup>
		Cable-lug adapters							
		Direct		33644 <sup>(3)</sup>		33645 <sup>(3)</sup>		Direct	
		33644 <sup>(3)</sup>		33645 <sup>(3)</sup>		33644 <sup>(3)</sup>		33645 <sup>(3)</sup>	
		Spacing rods							
		-		LVS04691 <sup>(3)</sup>		-		LVS04691 <sup>(3)</sup>	
		Arc-chute cover							
		33596	33597	33596	33597	-		-	
		Cables cover							
		LVS04851				LVS04852			
Rear connection		Type of terminals							
		Vertical rear connections supplied with the device							
		Terminal extension bar support							
		2 x LVS04693							
		Cables cover							
		LVS04853				LVS04854			
		Extension bars							
		must be made <sup>(2)</sup>							

Connection		Downstream distribution via Linergy LGY or LGYE busbars							
Devices		Fixed device				Withdrawable device			
		NS630b/1250		NS1600		NS630b/1250		NS1600	
		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							
		LVS04485	LVS04486	LVS04487	LVS04488	LVS04477	LVS04478	LVS04491	LVS04492
		For Linergy LGYE busbars: must be made <sup>(2)</sup> .							
		Can be reversed for upstream supply							
Free support for busbars connection		For Linergy LGYE busbars: 2 x LVS04662							
Cover for busbars connection		LVS04926							

(1) For devices with toggle or rotary handle Catalog number LVS03690, with a motor mechanism Catalog number LVS03701.

(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 ≥ 500 V 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 (LVS03801).

Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.

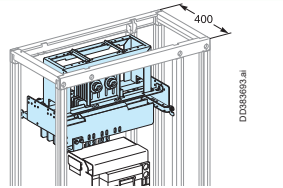
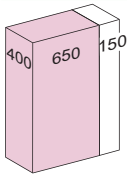
# ComPacT NS630b to 1600

## Canalis connection

Toggle, rotary handle, motor mechanism - Fixed, withdrawable

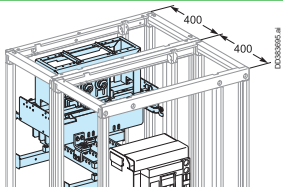
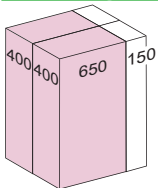
### Circuit breakers

#### 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	LVS03482	-	LVS03483	-
Front plates	LVS03804 [4] + LVS03803 [3]	-	LVS03804 [4] + LVS03803 [3]	-
[No. of vertical modules]	upstream	-	LVS03690 or LVS03701 <sup>(1)</sup> [7]	-
	with cut-out	-	LVS03691 [8]	-
	downstream	LVS03803 [3]	LVS03803 [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	LVS03482		LVS03483	
Front plates	upstream	LVS03806 [6]	LVS03805 [5]	
[No. of vertical modules]	with cut-out	LVS03690 or LVS03701 <sup>(1)</sup> [7]	LVS03691 [8]	
	downstream	LVS03803 [3]	LVS03803 [3]	

#### Connection Upstream on incomer

Devices	Fixed device		Withdrawable device	
	NS630b/1600		NS630b/1600	
Canalis support	3P	4P	3P	4P
	LVS03561	-	-	-
Canalis interface <sup>(2)</sup>	LVS04703	LVS04704	LVS04703	LVS04704
Front connection	Front connections supplied with the device			
Type of terminals	LVS04711	LVS04712	LVS04711	LVS04712
Canalis/device	33596	33597	-	-
Arc-chute cover	LVS04871 + LVS04851		LVS04871 + LVS04852	
Canalis cover				
Rear connection	Vertical rear connections supplied with the device			
Type of terminals	2 x LVS04693			
Terminal extension bar support	must be made <sup>(3)</sup>			
Extension bars	-	-	LVS04713	LVS04714
Canalis/device connection	-	-	LVS04713	LVS04714
Canalis cover	LVS04871 + LVS04854		LVS04871 + LVS04854	

#### Connection Downstream distribution via Linergy LGY or LGYE busbars

Devices	Fixed device				Withdrawable device			
	NS630b/1250	NS1600	NS630b/1250	NS1600	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							
	LVS04485	LVS04486	LVS04487	LVS04488	LVS04477	LVS04478	LVS04491	LVS04492
	For Linergy LGYE busbars: must be made <sup>(3)</sup>							
Free support for busbars connection	For Linergy LGYE busbars: 2 x LVS04662							
Cover for busbars connection	LVS04926							

<sup>(1)</sup> For devices with toggle or rotary handle Catalog number LVS03690, with a motor mechanism Catalog number LVS03701.

<sup>(2)</sup> To tight the screws of the Canalis interface use the special tool 87808.

<sup>(3)</sup> 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 (LVS03801).

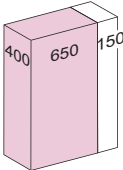
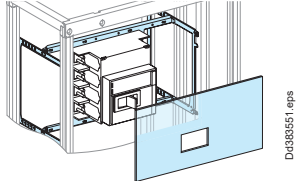
Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.

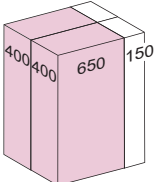
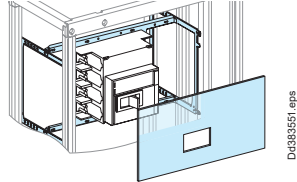
# ComPacT NS630b to 1000


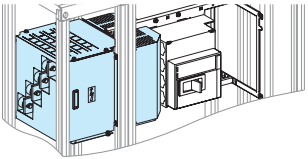
Horizontal mounting


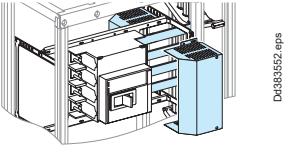
Toggle, rotary handle - Fixed

Circuit breakers

Mounting	Front connection
	
<b>Devices</b>	<b>Fixed device</b>
	<b>NS630b/1000</b>
Number of devices per row	1
No. of vertical modules	7 <sup>(1)</sup>
Mounting plates	LVS03480
Front plates with cut-outs	LVS03687

Mounting	Rear connection
	
<b>Devices</b>	<b>Fixed device</b>
	<b>NS630b/1000</b>
Number of devices per row	1
No. of vertical modules	7 <sup>(1)</sup>
Mounting plates	LVS03480
Front plates with cut-outs	LVS03687

Connection	Upstream on incomer
	
<b>Fixed devices</b>	<b>NS630b/1000</b>
	<b>3P</b>   <b>4P</b>
Type of terminals front connection	Front connections supplied with the device
rear connection	Vertical rear connections supplied with the device
Connection transfert assembly for front connection	LVS04483   LVS04484
	If cubicle w300 mm then 3x300 mm <sup>2</sup> , if cubicle w400 mm then 4x300 mm <sup>2</sup> , same concept for 185 mm <sup>2</sup> . Three 300 mm <sup>2</sup> or six 185 mm <sup>2</sup> cables can be connected per phase with lugs that are not of the two-metal type.
Cover rear connection	-

Connection	Downstream via Linergy LGE or LGEY busbars
	
<b>Fixed devices</b>	<b>NS630b/1000</b>
	<b>3P</b>   <b>4P</b>
Type of terminals	Front connections supplied with the device
Busbars connection	For Linergy LGE busbars: prefabricated connection LVS04473   LVS04474
	must be made. For Linergy LGEY busbars (> page D-85)
Cover for busbars connection	LVS04842
Arc-chute cover	33596   33597

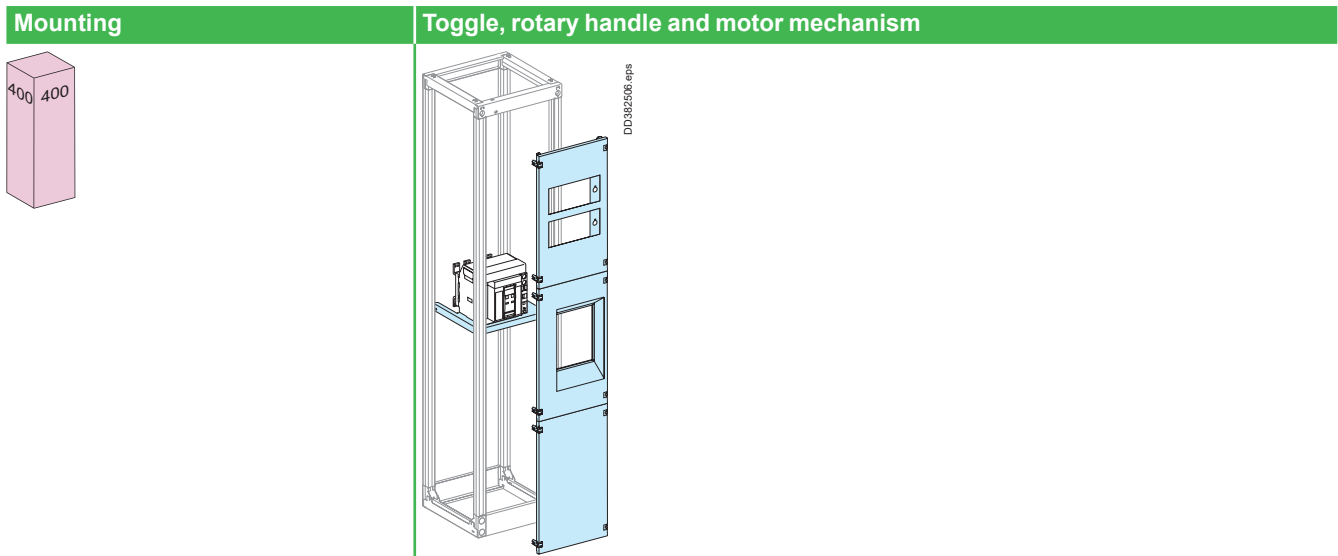
(1) Mounting of LVS03480 + connection transfert assembly LVS04483 or LVS04484 needs 8 vertical modules (use of one complementary front plate 1 module LVS03801) at the bottom of the functional unit.  
Selection of busbars: Linergy LGE > page D-83, Linergy LGEY > page D-84.

# ComPacT NS630b to 1600

Dedicated cubicle - W = 400 mm

Fixed, withdrawable

Circuit breakers



Devices	Fixed device	Withdrawable device
	<b>NS630b/1600 3/4P</b>	<b>NS630b/1600 3P</b>
Number of devices per cubicle	1	1
No. of vertical modules	<b>37</b>	<b>37</b>
Mounting plates	<b>LVS03487</b>	<b>LVS03488</b>
Front plates	with cut-out <b>LVS03697 [11]</b>	<b>LVS03699 [11]</b>
[No. of vertical modules]	upstream <sup>(1)</sup> with cut-out for 72 x 72 or 96 x 96 mm meters <b>LVS03723 [13]</b>	<b>LVS03723 [13]</b>
	or plain <b>LVS03722 [13]</b>	<b>LVS03722 [13]</b>
	downstream <sup>(1)</sup> plain <b>LVS03722 [13]</b>	<b>LVS03722 [13]</b>

## Measurement-device installation

Measurement devices are installed on a front plate (**LVS03723**) using plastic mounting plates with cut-outs.

The front plate can hold:


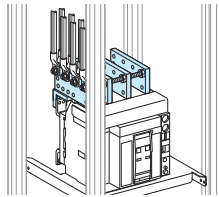
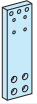


- Six 72 x 72 mm cases
- or,
- Four 96 x 96 mm cases + 2 switches.

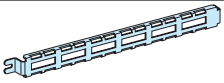
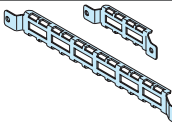
Number and type of devices per row	Metal front plate with cut-out	No. of vertical modules	Plastic mounting plates with cut-out	Blanking plate or device support
<b>Mounting on an interface with plastic mounting plates</b>				
3 x <b>72 x 72</b> Vigirex and other devices 72 x 72 without switch		13		 To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45
2 x <b>96 x 96</b> Power Meter and other devices 96 x 96 with switch				 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	<b>LVS03723</b>		<b>LVS03903</b>	<b>LVS03901</b>
	<ul style="list-style-type: none"> <li>■ Installation of three devices (72 x 72 mm cases) using plastic mounting plates (<b>LVS03902</b>) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (<b>LVS03903</b>) on a hinged front plate (<b>LVS03723</b>).</li> <li>■ The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices. Knock-outs for <b>LVS03900</b>: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device. Knock-outs for <b>LVS03901</b>: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device.</li> </ul>			

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


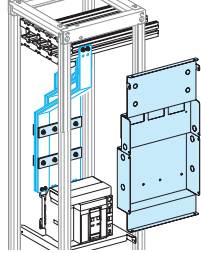
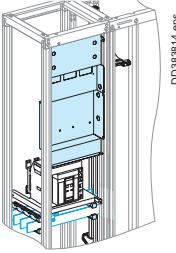
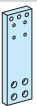
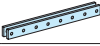

**ComPacT NS630b to 1600**  
 Dedicated cubicle - W = 400 mm  
 Fixed, withdrawable

Circuit breakers

Connection	Upstream on incomer		
	 <small>DD382872.ai</small>		
Devices	Fixed device		Withdrawable device
	<b>NS630b/1600</b>		
	<b>3P</b>	<b>4P</b>	<b>3P</b>
Type of terminals 	Front connection		Front connection
Arc-chute cover 	<b>33596</b>	<b>33597</b>	—
Vert. conn. adapters	<b>33642</b> <sup>(1)</sup>	<b>33643</b> <sup>(1)</sup>	<b>33642</b> <sup>(1)</sup>
Cable-lug adapters	<b>33644</b> <sup>(1)</sup>	<b>33645</b> <sup>(1)</sup>	<b>33644</b> <sup>(1)</sup>
Spacing rods 	<b>LVS04691</b>		<b>LVS04691</b>

Accessories			
	 <small>DD3828513.eps</small>	 <small>DD382814.eps</small>	
4 cable tie supports for framework	<b>W = 400</b> <b>LVS08774</b>	<b>D = 400</b> <b>LVS08794</b>	<b>D = 600</b> <b>LVS08794 + LVS08796</b>

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

Distribution	Connection to horizontal busbars Linergy LGYE		Connection to vertical busbars Linergy LGY	
	 <small>DD383890.eps</small>		 <small>DD3838914.eps</small>	
Devices	Fixed	Withdrawable	Fixed	Withdrawable
	<b>NS630b/1600 3P/4P</b>	<b>NS630b/1600 3P</b>	<b>NS630b/1600 3P/4P</b>	<b>NS630b/1600 3P</b>
Type of terminals 	Front connection		Front connection	Front connection
Support 	<b>2 x LVS04692</b>	<b>2 x LVS04692</b>	—	—
Barrier <sup>(1)</sup> 	<b>LVS04855</b>	<b>LVS04855</b>	<b>LVS04855</b>	<b>LVS04855</b>
Horizontal-busbar connections 50/60/80	must be made <sup>(2)</sup>		—	—
Vertical-busbar connections	—	—	must be made <sup>(2)</sup>	
Free support	—	—	<b>LVS04662</b>	

<sup>(1)</sup> A barrier must be installed behind front plate **LVS03723** when measurement devices are installed.

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

<sup>(3)</sup> Catalog number **LVS04636** includes 1 connection only. Order 1 connection per phase.

Connection device/horizontal busbar to make by customer.

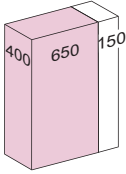
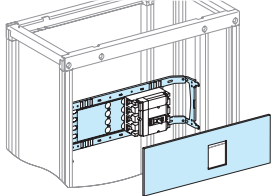

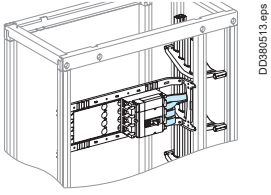

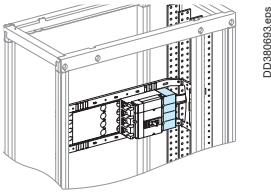

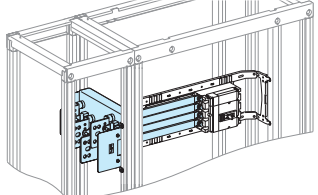
Busbar selection Linergy LGYE or LGY: > page D-82 and page D-83.

# ComPacT NSX 100 to 630

Horizontal mounting

Toggle - Fixed

Circuit breakers

Mounting		Horizontal fixed			
					
<b>Devices</b>		<b>Toggle</b>			
		<b>NSX <sup>(1)</sup> 100/160/250</b>		<b>NSX <sup>(1)</sup> 400/630</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Number of devices per row		1	1	1	1
PowerTag NSX compatibility		⌘	⌘	⌘	⌘
No. of vertical modules		3	4	4	5
Mounting plates		LVS03411	LVS03412	LVS03451	LVS03452
Front plates	with cut-out	LVS03604 <sup>(2)</sup>	LVS03606 <sup>(2)</sup>	LVS03643	LVS03644
<b>Connection</b>		<b>Upstream from lateral busbars</b>			
<b>Fixed devices</b>		<b>NSX 100/160/250</b>		<b>NSX 400/630</b>	
<b>Linerigy LGY</b>		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
					
Prefabricated connection		LVS04423 <sup>(4)</sup>	LVS04424 <sup>(4)</sup>	LVS04453	LVS04454
<b>Linerigy LGYE</b>					
					
Connection		must be made <sup>(3)</sup>			
Long terminal shields		LV429517	LV429518	LV432593	LV432594
<b>Connection</b>		<b>Downstream distribution</b>			
					
<b>Fixed devices</b>		<b>NSX 100/250</b>		<b>NSX 400/630</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Front connection	long terminal shields	LV429517	LV429518	LV432593	LV432594
Connection transfer assembly	connection	LVS04425	LVS04426	LVS04455	LVS04456
	connection with PowerTag NSX	LVS04425	LVS04426	LVS04459 <sup>(5)</sup>	LVS04460 <sup>(5)</sup>
	long terminal shields	-	-	-	-
Rear connection	short terminal shields	LV429515 <sup>(4)</sup>	LV429516 <sup>(4)</sup>	LV432591 <sup>(4)</sup>	LV432592 <sup>(4)</sup>
	short rear connectors	LV429235		LV432475	
	long rear connectors	LV429236		LV432476	

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Connections must be made with insulated flexible bars > page D-92.

(4) Compatible with Linergy LGYE vertical busbar.

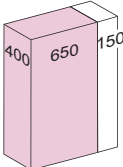
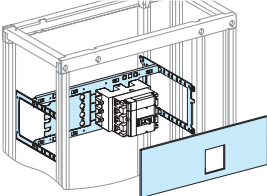

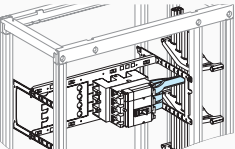

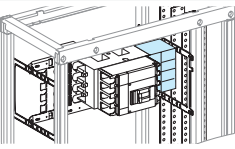

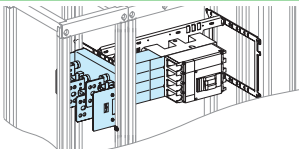
(5) Complete the connection with insulated flexible bars (not supplied).

# ComPacT NSX 100 to 630

Horizontal mounting

Toggle - Plug-in

Circuit breakers

Mounting		Horizontal plug-in			
					
<b>Devices</b>		<b>Toggle</b>			
		<b>NSX <sup>(1)</sup> 100/160/250</b>		<b>NSX <sup>(1)</sup> 400/630</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Number of devices per row		1	1	1	1
No. of vertical modules		3	4	4	5
Mounting plates		LVS03413	LVS03414	LVS03453	LVS03454
Front plates	with cut-out	LVS03604 <sup>(2)</sup>	LVS03606 <sup>(2)</sup>	LVS03643	LVS03644
<b>Connection</b>		<b>Upstream from lateral busbars</b>			
<b>Plug-in devices</b>		<b>NSX 100/160/250</b>		<b>NSX 400/630</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
<b>Linergy LGY</b>					
					
Prefabricated connection		LVS04431 <sup>(3)</sup>	LVS04432 <sup>(3)</sup>	LVS04461	LVS04462
Short terminal shields on device		LV429515	LV429516	LV432591	LV432592
<b>Linergy LGYE</b>					
					
Connection		must be made with insulated flexible bars > page D-92.			
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
<b>Connection</b>		<b>Downstream distribution</b>			
					
<b>Plug-in devices</b>		<b>NSX 100/160/250</b>		<b>NSX 400/630</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
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	LVS04429 <sup>(4)</sup>	LVS04430 <sup>(4)</sup>	LVS04459 <sup>(4)</sup>	LVS04460 <sup>(4)</sup>
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
	short terminal shields	LV429515	LV429516	LV432591	LV432592
Rear connection	long terminal shields	LV429517	LV429518	LV432593	LV432594
	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) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Compatible with Linergy LGYE vertical busbar.

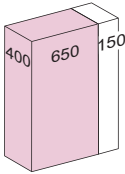
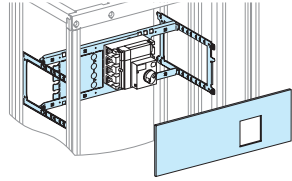

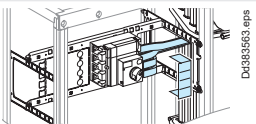

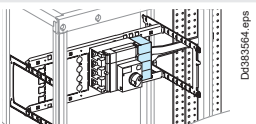

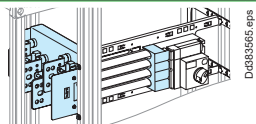
(4) Complete the connection with insulated flexible bars (not supplied).

# ComPacT NSX 100 to 630

Horizontal mounting

Rotary handle - Fixed

Circuit breakers

Mounting		Horizontal Fixed			
					
Devices		Rotary handle		NSX (1) 400/630	
		NSX (1) 100/160/250		rotary handle	
		3P	4P	3P	4P
Number of devices per row		1	1	1	1
PowerTag NSX compatibility		↯)	↯)	↯)	↯)
No. of vertical modules		3	4	4	5
Mounting plates		LVS03413	LVS03414	LVS03453	LVS03454
Fixing kit for control support		-	-	-	-
Front plates	with cut-out	LVS03604 (2)	LVS03606 (2)	LVS03643	LVS03644
Collar		-	-	-	-
Connection		Upstream from lateral busbars			
Fixed devices		NSX 100/160/250		NSX 400/630	
		3P	4P	3P	4P
Lineray LGY					
					
Connection		LVS04427 (3)	LVS04428 (3)	must be made with insulated flexible bars > page D-92 (4).	
Long terminal shields		-	-	LV432593	LV432594
Lineray LGYE					
					
Connection		must be made with insulated flexible bars > page D-92			
Long terminal shields		LV429517	LV429518	LV432593	LV432594
Connection		Downstream distribution			
					
Fixed devices		NSX		400/630	
		100/160/250		3P	4P
		3P	4P	3P	4P
Front connection	long terminal shields	LV429517	LV429518	LV432593	LV432594
Connection transfer assembly	connection with or without PowerTag NSX	LVS04429 (5)	LVS04430 (5)	LVS04459 (5)	LVS04460 (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) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Compatible with Linergy LGYE vertical busbar.

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

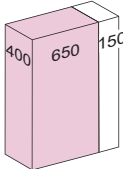
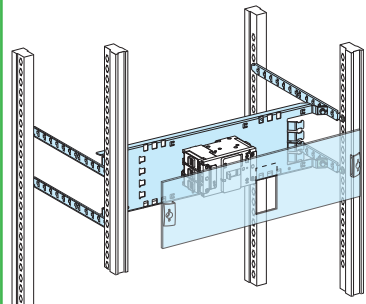
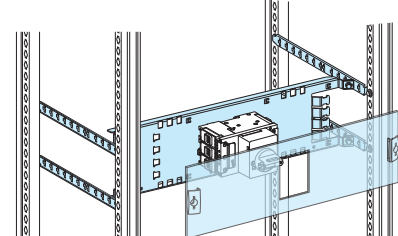

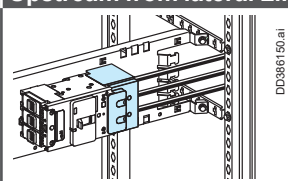
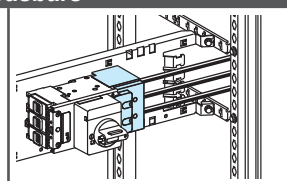

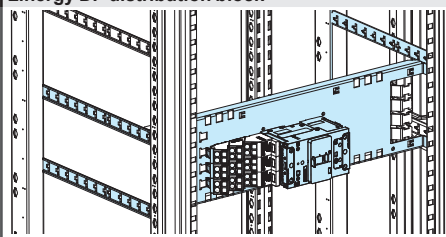
(5) Complete the connection with insulated flexible bars (not supplied).

ComPacT NSXm up to 160

Horizontal mounting

Toggle, rotary handle - Fixed

Circuit breakers

Mounting		Horizontal fixed			
					DD386146.ai DD386147.ai
	<b>Devices</b>	<b>Toggle NSXm</b>	<b>NSXm</b>	<b>Direct rotary handle NSXm</b>	
Number of devices per row	1 x 3P or 4P	1 x 3P or 4P	1 x 3P or 4P		
No. of vertical modules	3	3	3		
Mounting plates	LVS03409	LVS03409	LVS03409		
Front plates with cut-out [No. of vertical modules]	LVS03330 [3]	LVS03330 [3]	LVS03331 [3]		
Connection		Upstream from lateral Linergy LGY, LGYE busbars			
					DD386150.ai DD386151.ai
	<b>Devices</b>	<b>Toggle NSXm, NSXm Vigi (ELCB)</b>	<b>NSXm</b>	<b>Direct rotary handle NSXm</b>	
Connection	3P	4P	3P	4P	
Long terminal shields	Connections must be made	Connections must be made	LV426912	LV426913	
Connection		Linergy DP distribution block			
					DD435602.ai
	Busbars / Distribution block	LVS04038, LVS04039 > page D-86.			
Prefabricated connection	-				

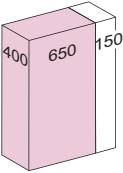
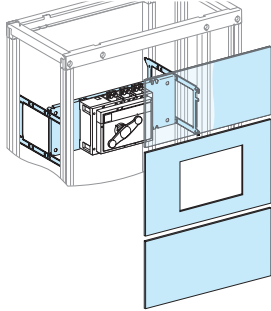
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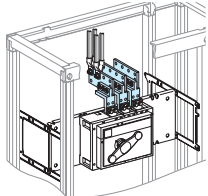
ComPacT INS-INV630b to 1600 (only for feeder cubicles)


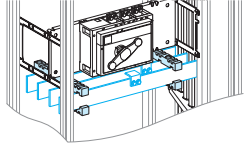
ComPacT INS-INV2000-2500 (only for feeder cubicles)

Vertical fixed mounting

Switch-disconnectors

Mounting		Vertical fixed			
					
<b>Devices</b>		<b>Fixed device</b>			
		<b>INS-INV630b/1600</b>		<b>INS-INV2000/2500</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Number of devices per row		1		1	
No. of vertical modules		14		16	
Mounting plates		LVS03501		LVS03501	
Front plates		upstream LVS03804 [4]		LVS03803 [3]	
[No. of vertical modules]		with cut-out LVS03713 [6]		LVS03715 [10]	
		downstream LVS03804 [4]		LVS03803 [3]	
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		Upstream on incomer			
					
<b>Fixed device</b>		<b>INS-INV630b/1600</b>		<b>INS-INV2000/2500</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Vertical connection adapters		31301 <sup>(1)</sup>	31302 <sup>(1)</sup>	3 x 31310	4 x 31310
Cable-lug adapters		33644 <sup>(1)</sup>	33645 <sup>(1)</sup>	-	-
Connection		-		must be made	
Terminal extension bar support		-		LVS04694	LVS04694

Connection		Downstream distribution via Linergy LGY or LGYE busbars			
					
<b>Fixed device</b>		<b>INS-INV630b/1600</b>		<b>INS-INV2000/2500</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Connection LGY		LVS04481	LVS04482	-	
Connection BS, LGYE		must be made <sup>(3)</sup>		must be made <sup>(3)</sup>	
Cover for busbars connection		LVS04926 <sup>(2)</sup>		LVS04926 <sup>(2)</sup>	
Free support		-		2 x LVS04662	

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

(2) Partitioning of devices must be made.

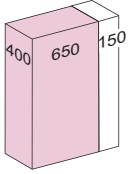
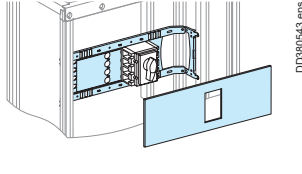
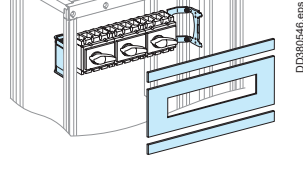

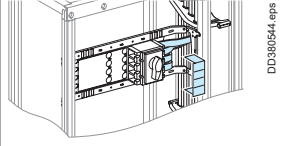

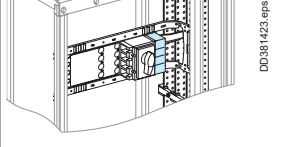
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.

ComPacT INS-INV250 to 630 (only for feeder cubicles)

Horizontal / Vertical fixed mounting

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
PowerTag NSX compatibility		⊘	⊘	⊘	⊘	⊘
No. of vertical modules		4	5	7 or 8 <sup>(1)</sup>	10 or 12	11 or 13
Mounting plates		LVS03412	LVS03452	LVS03420	LVS03461	LVS03461
Front plates upstream		-	-	LVS03801 [1]	-	LVS03801 [1]
[No. of vertical modules] with cut-out		LVS03617 [4]	LVS03658 [5]	LVS03248 [5]	LVS03620 [5]	LVS03274 [10]
downstream		-	-	LVS03801 [1]	-	-
downstream with PowerTag NSX		-	-	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]
Connection		Upstream via lateral busbars				
Fixed device		INS-INV250	INS-INV320/630	INS-INV250	INS-INV320/630	
		3P	4P			
Linergy LGY						
Prefabricated connection		LVS04427 <sup>(2)</sup>	LVS04428 <sup>(2)</sup>	must be made <sup>(3)</sup>	must be made <sup>(3)</sup>	
Distribution block Linergy FC		-	-	LVS04404	-	
Long terminal shields		-	LV432594	-	LV432594	
Linergy LGYE						
Connection		must be made <sup>(3)</sup>		-	-	
Linergy FC distribution blocks (without connection)		-	-	LVS04408	must be made	
Long terminal shields		LV429518	LV432594	-	LV432594	
Accessories						
Linergy FC tooth-caps		-	-	LVS04809	-	
Connection		Downstream distribution				
Fixed device		INS-INV250	INS-INV320/630	INS-INV250	INS-INV320/630	
Front connection long terminal shields		LV429518	LV432594	LV429518	LV432594	
Connection transfer assembly		-	LVS04460 <sup>(5)</sup>	-	-	
Rear connection <sup>(4)</sup> 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 Linergy FC distribution block.

For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

(2) Compatible with Linergy LGYE vertical busbar.

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

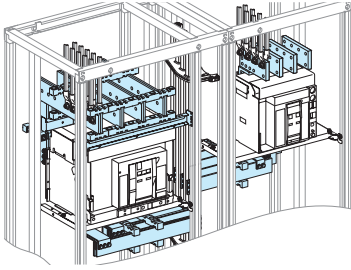
(4) For rear connection, size reduced one module; a plain downstream front plate (LVS03801) is not needed.

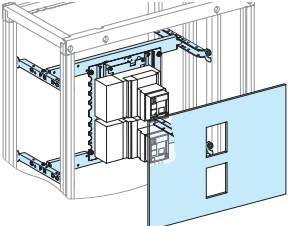
(5) LVS04460 is used for INS-INV 320/630 A (3P and 4P). Complete the connection with insulated flexible bars (not supplied).

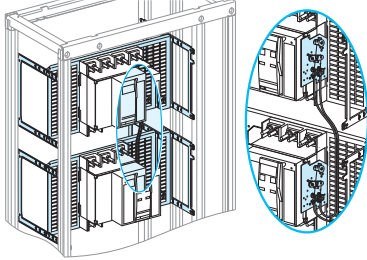
# Source-changeover

Possible combinations ComPacT NSX100/630, NS630b/1600, MasterPact MTZ1 06/16, MTZ2 08/32

## Source-changeover

Manual source-changeover								
								
Type of device	Type of interlocking							
	Complete assembly	Toggle	Keylock	Rotary handle	On base plate	Cable-type with 2 devices side-by-side <sup>(2)</sup>	Cable-type with 3 devices side-by-side <sup>(2)</sup>	Cable-type with 2 devices one above another
INS250 (rating 100 to 250)								
INV100 to INV250 <sup>(1)</sup>								
INS320 to INS630								
INV320 to INV630 <sup>(1)</sup>								
NSX100 to NSX250								
NSX400 to NSX630								
NS630b to NS1600								
MTZ1 06 to 16								
MTZ2 08 to 32								

Remote-operated source-changeover systems - Mechanical interlocking system					
					
Devices "S1"	Combination of ComPacT NSX "S1" and "S2" devices				
	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					

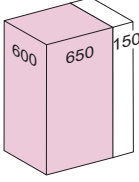
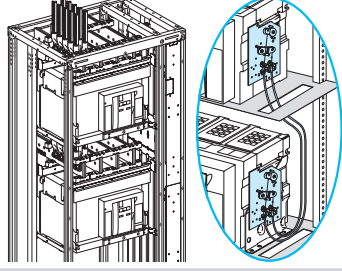


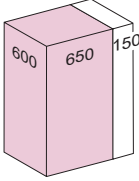
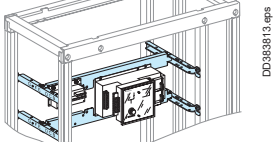
			
Devices "S1"	Combination of "S1" and "S2" devices, Interlocking via cables		
	NS630b to NS1600	MTZ1 06 to 16	MTZ2 08 to 32
NS630b to NS1600			
MTZ1 06 to 16			
MTZ2 08 to 32			

(1) Visible break function.  
 (2) In 2 or 3 cubicles.

Possible combinations.

Manual or remote-operated or automatic source-changeover  
MasterPact MTZ2 08/32, front connection S1 device identical to S2 device

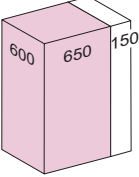
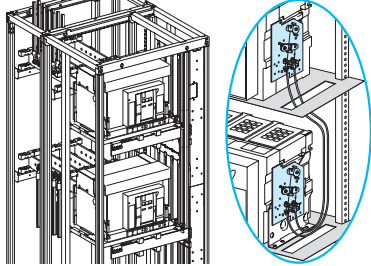


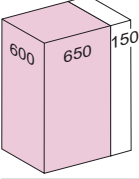
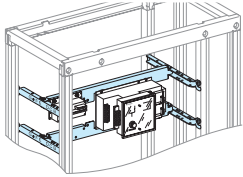
Source-changeover

Mounting		Front connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2	2	2	2
Number of vertical modules		31	34	33	36
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		<b>S1 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]
		<b>S2 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>S1 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 06/10</b>	<b>MTZ2 20/32</b>
Downstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.			
		<b>S1 device</b>			
Upstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
Downstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates with cut-out [No. of vertical mod.]		LVS03671 [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.

Manual or remote-operated or automatic source-changeover  
 MasterPact MTZ2 08/32, rear connection S1 device identical to S2 device

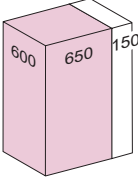
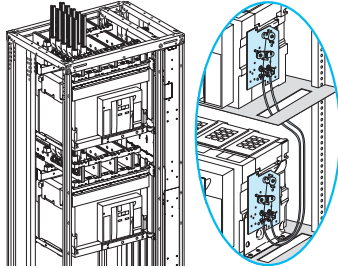

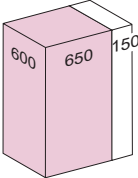
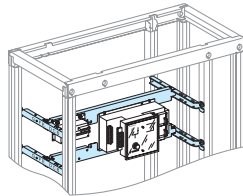
Source-changeover

Mounting		Rear connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2		2	
Number of vertical modules		23		24	
Mounting plates		LVS03500		LVS03500	
		<b>S1 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	LVS03711 [9]		LVS03710 [10]	
	downstream	LVS03805 [5]		LVS03806 [6]	
		<b>S2 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	LVS03711 [9]		LVS03710 [10]	
	downstream	-		-	
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>S1 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Downstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.			
		<b>S1 device</b>			
Upstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
Downstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates with cut-out [No. of vertical mod.]		LVS03671 [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.

Manual or remote-operated or automatic source-changeover  
MasterPact MTZ2 08/32, front connection S1 device different to S2 device

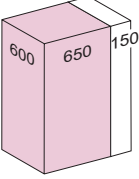
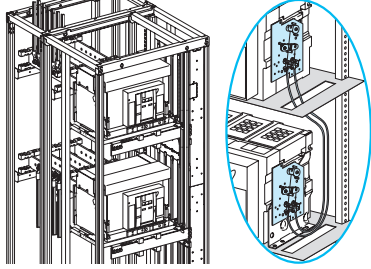


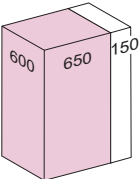
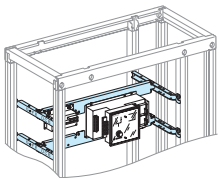
Source-changeover

Mounting		Front connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2	2	2	2
Number of vertical modules		33	33	35	35
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		<b>S1 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]
		<b>S2 device</b>			
		<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>S1 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
Upstream connection Connection		Vertical rear connections supplied with the device must be made <sup>(1)</sup>			
		<b>S2 device</b>			
		<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>	<b>MTZ2 T06/10</b>	<b>MTZ2 20/32</b>
Downstream connection Connection		Vertical rear connections supplied with the device must be made <sup>(1)</sup>			
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.			
		<b>S1 device</b>			
Upstream connection Connection		Front connections supplied with the device must be made <sup>(1)</sup>			
		<b>S2 device</b>			
Downstream connection Connection		Front connections supplied with the device must be made <sup>(1)</sup>			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.] with cut-out		LVS03671 [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.

Manual or remote-operated or automatic source-changeover  
 MasterPact MTZ2 08/32, rear connection S1 device different to S2 device

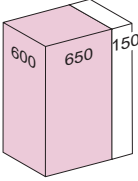
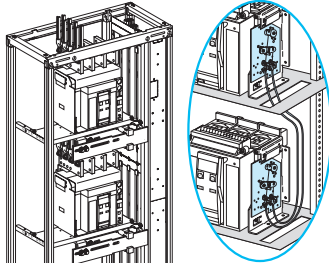


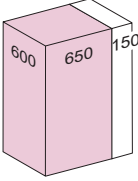
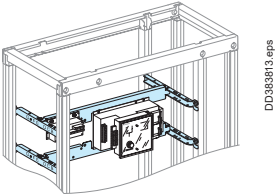
Source-changeover

Mounting		Rear connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2		2	
Number of vertical modules		24		26	
Mounting plates		LVS03500		LVS03500	
		<b>S1 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	LVS03711 [9]		LVS03710 [10]	
	downstream	LVS03806 [6]		LVS03806 [6]	
		<b>S2 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	LVS03711 [9]		LVS03710 [10]	
	downstream	-		-	
<b>Connection</b>					
		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>S1 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
		MTZ2 08/16		MTZ2 20/32	
Downstream connection		Vertical rear connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
<b>Distribution</b>		<b>Linergy LGY, LGYE busbars</b>			
		Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.			
		<b>S1 device</b>			
Upstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
		<b>S2 device</b>			
Downstream connection		Front connections supplied with the device			
Connection		must be made <sup>(1)</sup>			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates with cut-out [No. of vertical mod.]		LVS03671 [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.

Manual or remote-operated or automatic source-changeover  
MasterPact MTZ1 06/16, front connection S1 device identical to S2 device

Source-changeover

Mounting		Front connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2		2	
Number of vertical modules		24		30	
Mounting plates		LVS03484		LVS03483	
		<b>S1 device</b>			
		MTZ1 06/10		MTZ1 12/16	
Front plates [No. of vertical modules]	upstream	LVS03802 [2]		LVS03804 [4]	
	with cut-out	LVS03692 [7]		LVS03691 [8]	
	downstream	LVS03803 [3]		LVS03803 [3]	
		<b>S2 device</b>			
		MTZ1 06/10		MTZ1 12/16	
Front plates [No. of vertical modules]	upstream	LVS03803 [3]		LVS03803 [3]	
	with cut-out	LVS03692 [7]		LVS03691 [8]	
	downstream	LVS03802 [2]		LVS03804 [4]	
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		MTZ1 06/10		MTZ1 12/16	
		3P 4P		3P 4P	
		3P 4P		3P 4P	
		3P 4P		3P 4P	
<b>S1 device</b>		Front connections supplied with the device			
Upstream connection		33642 33643		33642 33643	
Vertical connection adapters		33642 33643		33642 33643	
<b>S2 device</b>		Front connections supplied with the device			
Downstream connection		33642 33643		33642 33643	
Vertical connection adapters		33642 33643		33642 33643	
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.			
<b>S1 device</b>		Front connections supplied with the device			
Upstream connection		must be made			
<b>S2 device</b>		Front connections supplied with the device			
Downstream connection		must be made			
Connection		must be made			
Mounting		Outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		with cut-out LVS03671 [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.			



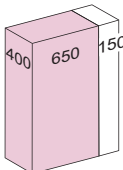
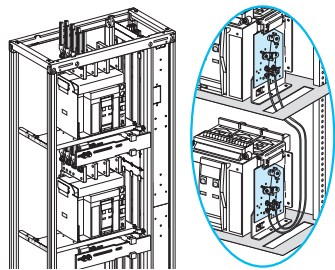


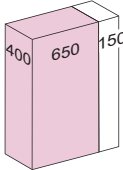
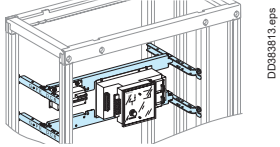
Manual or remote-operated or automatic source-changeover  
 MasterPact MTZ1 06/16, rear connection S1 device identical to S2 device

Source-changeover

Mounting		Rear connection with cables	
<b>Devices</b>		<b>Fixed device</b>	<b>Withdrawable device</b>
Number of devices per row		2	2
Number of vertical modules		22	22
Mounting plates		LVS03484	LVS03483
		<b>S1 device</b>	
		<b>MTZ1 06/16</b>	<b>MTZ1 06/16</b>
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	-
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]
		<b>S2 device</b>	
		<b>MTZ1 06/16</b>	<b>MTZ1 06/16</b>
Front plates [No. of vertical modules]	upstream	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03801 [1]	-
Connection			
<b>Devices</b>		<b>Fixed device</b>	<b>Withdrawable device</b>
		<b>MTZ1 06/16</b>	<b>MTZ1 06/16</b>
		<b>S1 device</b>	
Upstream connection	Vertical rear connections supplied with the device		
Connection	must be made		
		<b>S2 device</b>	
Downstream connection	Vertical rear connections supplied with the device		
Connection	must be made		
Distribution		Linergy LGY, LGYE busbars	
		Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.	
		<b>S1 device</b>	
Upstream connection	Front connections supplied with the device		
Connection	must be made		
		<b>S2 device</b>	
Downstream connection	Front connections supplied with the device		
Connection	must be made		
Mounting		Controller outside the device zone	
<b>Devices</b>		<b>UA or BA controller</b>	
Number of devices per row		1	
Number of vertical modules		4	
Mounting plates		LVS03417	
Front plates [No. of vertical mod.]	with cut-out	LVS03671 [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.	

Manual or remote-operated or automatic source-changeover  
MasterPact MTZ1 06/16, front connection S1 device different to S2 device

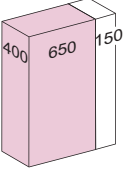
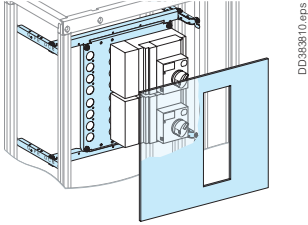
Source-changeover

Mounting		Front connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2	2	2	2
Number of vertical modules		26	26	28	28
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
		<b>S1 device</b>			
		<b>MTZ1 12/16</b>	<b>MTZ1 06/10</b>	<b>MTZ1 12/16</b>	<b>MTZ1 06/10</b>
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
		<b>S2 device</b>			
		<b>MTZ1 06/10</b>	<b>MTZ1 12/16</b>	<b>MTZ1 06/10</b>	<b>MTZ1 12/16</b>
Front plates [No. of vertical modules]	upstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>MTZ1 06/10</b>	<b>MTZ1 12/16</b>	<b>MTZ1 06/10</b>	<b>MTZ1 12/16</b>
		3P    4P	3P    4P	3P    4P	3P    4P
<b>S1 device</b>		Upstream connection			
Vertical connection adapters		33642	33643	33642	33643
<b>S2 device</b>		Downstream connection			
Vertical connection adapters		33642	33643	33642	33643
Distribution		Linergy LGY, LGYE busbars			
		Selection of busbars: Linergy LGY > page D-83, Linergy LGYE > page D-84.			
<b>S1 device</b>		Upstream connection			
Connection		must be made			
<b>S2 device</b>		Downstream connection			
Connection		must be made			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		with cut-out LVS03671 [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.			




Manual source-changeover  
ComPacT NSX100/630

Source-changeover

Mounting	Horizontal
	

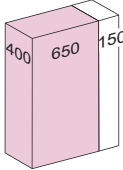
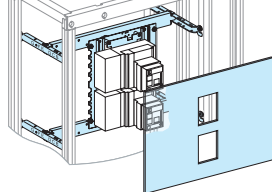
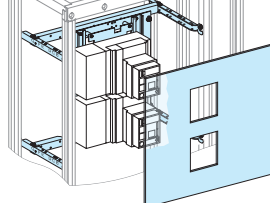
Devices	
	<b>NSX400/630</b>
	<b>3P</b>   <b>4P</b>
Number of devices per row	2
Number of vertical modules	<b>10</b>
Mounting plates	<b>LVS03458</b>
Front plates	upstream -
[No. of vertical modules]	with cut-out <b>LVS03659 [10]</b>
	downstream -
Mechanical interlock	<b>LV432621</b>   <b>LV432621</b>
Characteristics	<b>Interlocking of rotary handles</b> The devices are equipped with a rotary handle. They are mounted on a dedicated mounting plate.


Connection	Downstream distribution			
				
<b>Type of connected devices</b>	<b>ComPacT NSX100/250</b>		<b>ComPacT NSX400/630</b>	
	<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Front conn. long terminal shields for spreader	<b>LV429517</b>	<b>LV429518</b>	<b>LV432593</b>	<b>LV432594</b>
	-	-	<b>LV432595</b>	<b>LV432596</b>
Coupling accessory	<b>LV429358</b>	<b>LV429359</b>	<b>LV432619</b>	<b>LV432620</b>
Rear conn. short terminal shields	<b>LV429515</b>	<b>LV429516</b>	<b>LV432591</b>	<b>LV432592</b>

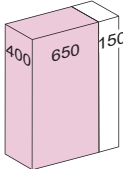
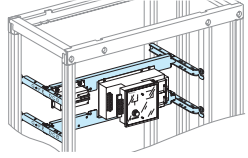
# Remote-operated source-changeover

## ComPacT NSX100/630

### Source-changeover

Mounting		Horizontal	
			
			
Devices		NSX100/250	NSX400/630
Number of devices per row		2	2
Number of vertical modules		8	10
Mounting plates		LVS03417 <sup>(1)</sup>	LVS03457 <sup>(2)</sup>
Front plates [No. of vertical mod.]	with cut-out	LVS03616 [8]	LVS03656 [10]
Characteristics	The devices are equipped with motor mechanisms.		

Connection		Downstream distribution			
					
Type of connected devices		ComPacT NSX100/250		ComPacT NSX400/630	
		3P	4P	3P	4P
Front connection	long terminal shields for spreader	LV429517	LV429518	LV432593	LV432594
Coupling accessory		LV429358	LV429359	LV432595	LV432596
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		LVS03417	
Front plates [No. of vertical mod.]	with cut-out	LVS03671 [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) Order mounting plate + IVE electrical interlocking unit for NSX100/250 (cat. no. 29350 for AC or 29351 for DC version).

(2) Order mounting plate + IVE electrical interlocking unit for NSX400/630 (cat. no. 32610 for AC or 32611 for DC version).

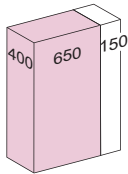
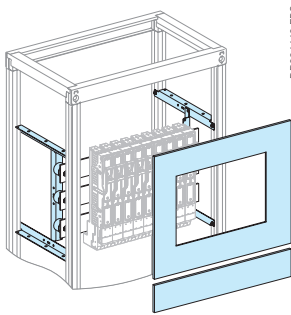
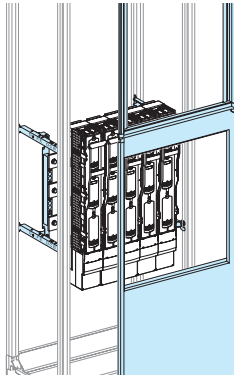
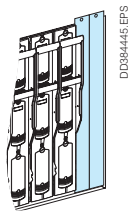
Incoming and busbar connections to be made.


Fupact ISFL


Vertical / 3P

Determining the busbars

Fusegear

Mounting	Through cut-out front plate	Through a 2/3 cut-out front plate			Accessories
					
<b>Devices</b>	<b>ISFL160</b>	<b>ISFL160</b>	<b>ISFL250/400/630</b>	<b>ISFL 1250</b>	
Number of devices per row	9	10	5	2	-
Number of vertical modules	11	24	24	24	-
Mounting plates	LVS03545 + (1)	LVS03546 + (1)	LVS03546 (1) + (2)	LVS03546 + (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.] FAV 2/3	LVS03736 [11]	-	-	-	-
	-	LVS03735 [24 + 12]	LVS03735 [24 + 12]	LVS03735 [24 + 12]	-
Side frame door cut-out	LV480868 LV480869	LV480868 LV480869	LV480868 LV480869	LV480868 LV480869	-
Blanking plate	LVS03740	LVS03740	LVS03741 (3)	2 x LVS03741	-
Busbars cover	-	-	-	-	LVS04860
Characteristics	<ul style="list-style-type: none"> <li>The fuses are installed on the horizontal bars which are in turn supported by a mounting plate.</li> <li>The front plates are secured to the hinged front plate support frame.</li> <li>The front may be covered either by a cover frame or a plain or transparent door.</li> <li>Current transformers can be installed behind ISFL fuse-switch-disconnectors.</li> </ul>	<ul style="list-style-type: none"> <li>The fuses are installed on the horizontal bars which are in turn supported by a mounting plate.</li> <li>The front of the cubicle is made up of two parts:                             <ul style="list-style-type: none"> <li>2/3 cut-out front plate allowing introduction of the fuses.</li> <li>1/3 front plate support frame (12 modules) cat. number LVS08562 on which the functional units are mounted.</li> </ul> </li> <li>The front may be covered either by a cover frame or a plain or transparent door.</li> <li>Current transformers can be installed behind ISFL fuse-switch-disconnectors.</li> </ul>			

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

Distribution	
	
<b>Devices</b>	<b>ISFL160/630</b>
Downstream connection	With cable

(1) The bars are made by the customer: for choice of bars > pages D-82 to D-85.

(2) Adaptation accessories LV480870 + LV480855 used to:  
 ■ Install two ISFL160 devices on a mounting plate LVS03546.  
 ■ Mix ISFL devices.

(3) Use 2 blanking plates per device.

**Note:**

■ For ISFL 160, by fixing screws only.

For determining the busbar > page D-160.

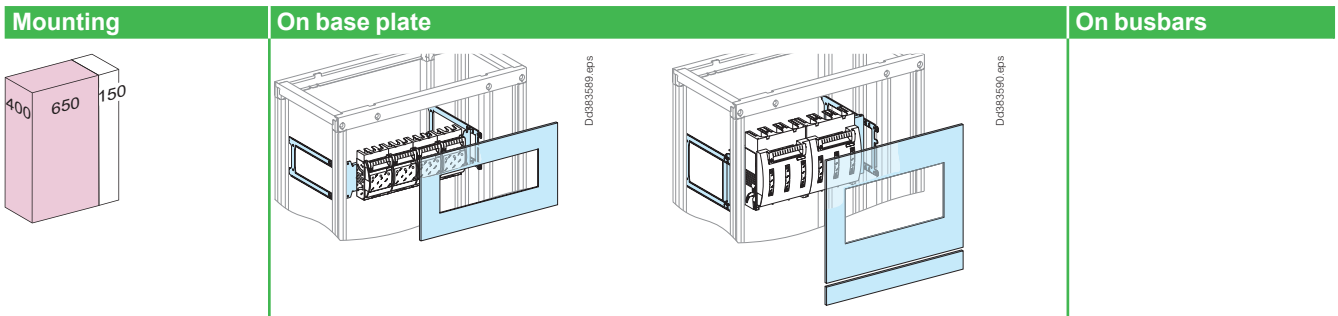
# Fupact ISFT

Vertical / 3P

Installation on mounting plate or busbars

Determining the busbars

Fusegear/Switch-disconnector



Mounting	On base plate						On busbars	
	ISFT100	ISFT100N	ISFT160	ISFT250	ISFT400	ISFT630	ISFT100N	ISFT160
Devices								
Number of devices per row	5	8	4	2	2	1	6	4
Number of vertical modules	<b>6</b>	<b>8</b>	<b>6</b>	<b>9</b>	<b>9</b>	<b>10</b>	<b>8</b>	<b>6</b>
Mounting plates	LVS03554	-	LVS03556	LVS03557	LVS03557	LVS03557	LVS03555	LVS03555
Front plates with cut-out downstream	LVS03320 [6]	LVS03325 [8]	LVS03321 [6]	LVS03322 [9]	LVS03323 [9]	LVS03324 [8]	LVS03325 [8]	LVS03321 [6]
[No. of vertical mod.]	-	-	-	-	-	LVS03802 [2]	-	-

Connection	Direct							
Devices	ISFT100	ISFT100N	ISFT160	ISFT250	ISFT400	ISFT630	ISFT100N	ISFT160
Connection	must be made Downstream, with cable or flexible bars							
Long terminal shields	-	LV480756	LV480819	LV480824	LV480827	LV480831	-	LV480819

Distribution			
Linergy FH for 2 devices	49861	LV480811	
for 3 devices	49862	LV480812	
for 4 devices	49863	LV480813	
Set of 3 connectors (25 to 95 mm²)	49865	LV480818	
Set of 3 distribution connectors 3 x 10 mm²	49860	LV480814	

**Note:** For determining the busbar > page D-160.



# Fupact GS

Horizontal / Vertical

Extended rotary handle

Fusegear/Switch-disconnector

Mounting		Horizontal					
<b>Devices</b>		<b>GS32</b>	<b>GS63</b>	<b>GS100 <sup>(1)</sup></b>	<b>GS160 <sup>(1)</sup></b>	<b>GS250</b>	<b>GS400</b>
		3P or 4P					
Number of devices per row		1					
Number of vertical modules		3		5		7	
Mounting plates		LVS03559		LVS03560		LVS03564	
Front plates		LVS03308		LVS03309		LVS03346	
with cut-out downstream		-		-		-	
Nb of vertical modules		-		LVS03801 [1M]		LVS03347	
<b>Upstream connection</b>							
Terminal	3P	-		GS1AP33		GS1AP43	
Cover	4P	-		GS1AP34		GS1AP44	

Mounting		Vertical					
<b>Devices</b>		<b>GS32</b>	<b>GS63</b>	<b>GS100 <sup>(1)</sup></b>	<b>GS160 <sup>(1)</sup></b>	<b>GS250</b>	<b>GS400</b>
		3P or 4P					
Number of devices per row		3		2		1	
Number of vertical modules		3		5		6	
Mounting plates		LVS03559		LVS03563		LVS03565	
Front plates		LVS03308		LVS03309		LVS03349	
with cut-out downstream		-		-		-	
Nb of vertical modules		-		-		-	
<b>Upstream connection</b>							
Terminal	3P	-		GS1AP33		GS1AP43	
Cover	4P	-		GS1AP34		GS1AP44	

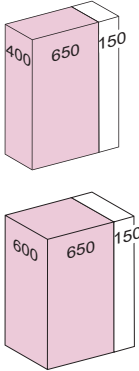
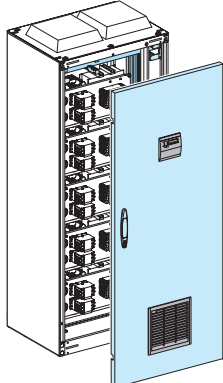
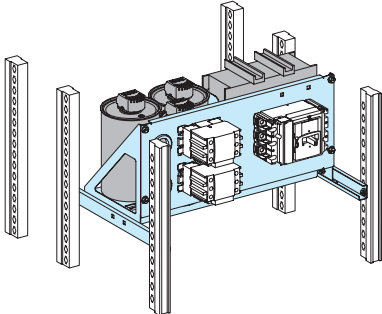
Distribution		Lateral busbars	
		<b>Linergy LGYE or Linergy LGY busbars <sup>(2)</sup></b>	
Busbars connection		Must be made	

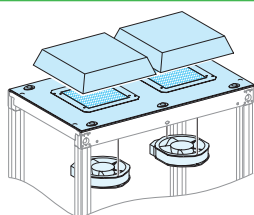
(1) For DIN fuses only.

(2) Selection of flexible bars for the connection Fupact GS ≤ 400 A: > page D-160.

## Power factor correction equipment

Others

Mounting	Door with cut-outs	Mounting plate
		
Catalog number	<b>LVS03970</b>	<b>LVS03979</b>
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
Catalog number	<b>LVS08478</b> <b>LVS08678</b>	<b>NSYCVF575M230MB</b>	<b>NSYCAC228RMB</b>	<b>NSYCAG291LPF</b>	<b>NSYCVF850M230PF</b>	<b>NSYCAF228R</b>
Characteristics	A roof with a cut-out ensures natural ventilation of the equipment. It can also be equipped with two fans.	<b>Fan characteristics</b> <ul style="list-style-type: none"> <li>Power: 85 W</li> <li>Input voltage: 230 V</li> <li>Throughput via outlet grill:                             <ul style="list-style-type: none"> <li>with 1 outlet grill: 350 m<sup>3</sup>/hr</li> <li>Free with filter: 575 m<sup>3</sup>/hr</li> </ul> </li> <li>Noise level: 64 dB</li> </ul> <b>Top hood characteristics</b> <ul style="list-style-type: none"> <li>Material: steel</li> <li>Finishing parts: painted with epoxy-polyester resin, textured RAL 9003, white</li> <li>IP54</li> <li>Fixing to the top by means of caged nuts and special screws.</li> </ul>	<ul style="list-style-type: none"> <li>Material: steel</li> <li>Finishing parts: painted with epoxy-polyester resin, textured RAL 7035 grey</li> <li>IP54</li> <li>Fixing to the top by means of caged nuts and special screws.</li> </ul>	<ul style="list-style-type: none"> <li>Material: Injected thermoplastic (ASA PC).</li> <li>self-extinguishing according to UL 94 V-0</li> <li>RAL 9003, white</li> <li>IP54</li> </ul>	<ul style="list-style-type: none"> <li>Power: 150/195 W</li> <li>Input voltage: 207 V... 244 V (230 V)</li> <li>Throughput via outlet grill:                             <ul style="list-style-type: none"> <li>with 1 outlet grill (m<sup>3</sup>/h):                                     <ul style="list-style-type: none"> <li>718 (50 Hz)</li> <li>568 (60 Hz)</li> </ul> </li> <li>Free with filter:                                     <ul style="list-style-type: none"> <li>838 (50 Hz)</li> <li>803 (60 Hz)</li> </ul> </li> <li>Noise level: 76/75 dB</li> </ul> </li></ul>	For outlet grill or filter IP54, cut-out 228 x 228 mm

Configuration	200 kvar	500 kvar
<b>Door</b>		
Catalog number	<b>LVS03970 + LVS01110</b>	<b>LVS03970 + LVS01110</b>
Designation	W650 door IP30 with cut-out + W150 wicket door	W650 door IP30 with cut-out + W150 wicket door
<b>For front</b>		
Catalog number	<b>NSYCVF850M230PF</b>	<b>NSYCAG291LPF</b>
Designation	Fan with filter	Outlet grill
<b>For rear</b>		
Catalog number	<b>LVS08748</b>	<b>LVS08749 + NSYCAG291LPF</b>
Designation	W800 Rear panel IP55	W800 Rear panel IP55 cut-out + outlet grill
<b>Roof</b>		
Catalog number	<b>LVS08478</b> or <b>LVS08678</b>	<b>LVS08478</b> or <b>LVS08678</b>
Designation	Roof with cut-out	Roof with cut-out
<b>On roof</b>		
Catalog number	<b>NSYCAC228RMB</b> x 2	<b>NSYCVF575M230MB</b> x 2
Designation	2 top hood without fan IP54	2 fans + top hood IP54
<b>Mounting plate</b>		
Catalog number	<b>LVS03979</b>	<b>LVS03979</b>
Designation	Mounting plate	Mounting plate

Mounting		On a modular rail							
Devices		<b>Contactor</b> Series D and K ≤ 40 A contactors	<b>Circuit breaker</b> GV2RT- GV2ME- GV2LE		GV2L- GV2P	GV3	<b>Circuit breaker + contactor</b> GV2 + Series D and K ≤ 40 A contactors	<b>TeSys</b> TeSys modèle U	
Number of vertical modules		3	3	3	5	5	5	4 <sup>(1)</sup>	
Useful length of rail (mm)		432	432			432	432		
Modular rail (adjustable)		LVS03402	LVS03401 <sup>(2)</sup>	LVS03402	LVS03402	LVS03402	LVS03402	LVS03402	
Front plates [No. of vertical mod.]	plain	LVS03803 [3]	-		-		-	-	LVS03804 [4]
	transparent	-	-		-		LVS03342 [4]	-	LVS03342 [4]
	with cut-out	-	LVS03203 [3]	LVS03203 [3]	LVS03205 [5]	-	-	LVS03205 [5]	-
	downstream	-	-		-		LVS03801 [1]	-	-
Characteristics		Width of devices without lateral auxiliaries: 45 mm.							

Mounting		On a modular rail				On a base plate	
Devices		<b>Soft starters ATS01</b> ATS01N103/106FT	ATS01N109/112FT ATS01N206 to 212	ATS01N222 to 232	ATS01N230LY ATS01N244LY ATS01N244Q	ATS01N272LY ATS01N285LY ATS01N272Q ATS01N285Q	<b>LV/LV transformer</b> 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)		LVS03402	LVS03402	LVS03402	LVS03402	-	-
Slotted mounting plates		-	-	-	-	LVS03572	LVS03571
Front plate [No. of vertical mod.]	plain	LVS03804 [4]	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]	LVS03804 [4]
Characteristics		Width of devices (mm)					-
		22.5	45	45	180	180	

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

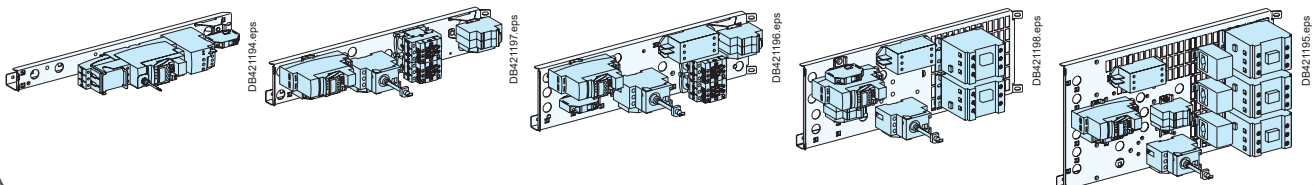
(2) Non-adjustable.



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.

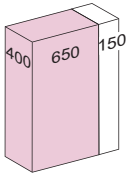
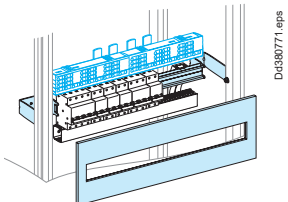
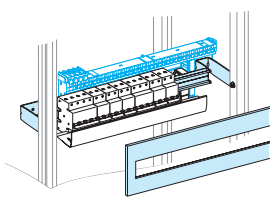
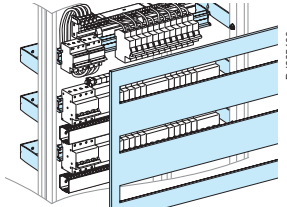
See PrismaSeT MCC Catalog DESW049EN.



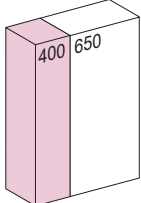
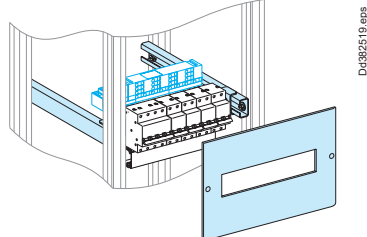
# Modular devices

Acti 9 ≤ 63 A

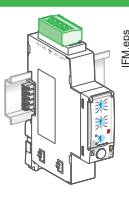
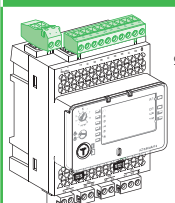
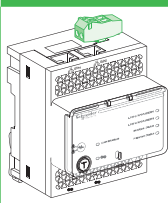
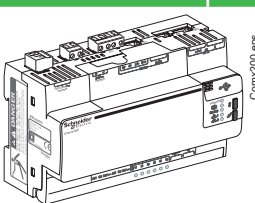
## Circuit breakers

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 <sup>(1)</sup>	3	8
Rail (48 modules of 9 mm)	LVS03401	LVS03401	3 x LVS03401
Modular front plates	LVS03204	LVS03203	LVS03223
Blanking strip	LVS03220	LVS03220	LVS03220
plate divisible	LVS03221	LVS03221	LVS03221

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)	LVS03404 (adjustable)	LVS03404 (adjustable)
Modular front plates	LVS03214 [4]	LVS03213 [3]
Blanking plate strip	LVS03220	LVS03220
divisible	LVS03221	LVS03221

	EnerlinX devices				
	IFM	I/O module	IFE	ComX200	ComX510
					
No. of vertical modules	4				
Rail	LVS03401 / LVS03404				
Modular front plates	LVS03204 / LVS03214				
Characteristics	Installation by clip on a modular rail.				

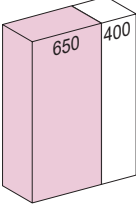
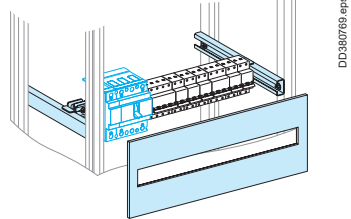
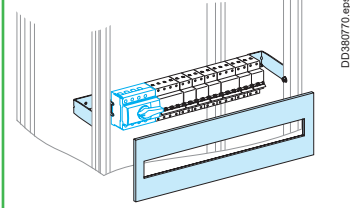
(1) For a modular row with a 160 A (half row) and 200 A Linergy FM distribution block positioned directly below a non-modular mounting-plate (ComPacT, etc.), or at the top of a switchboard, add one additional module (i.e. 4+1) and a plain upstream front plate (LVS03801).

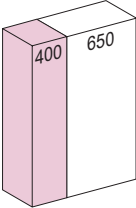
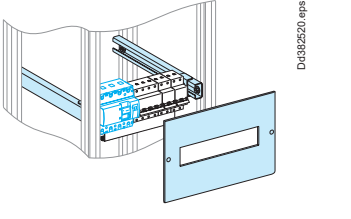
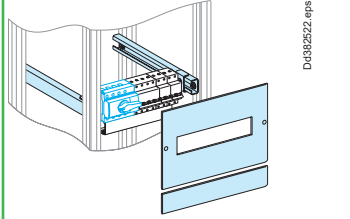


Modular devices

80/160 A switchboard incomer

Circuit breakers

Mounting	Circuit breakers		Switch-disconnectors	
				
<b>Devices</b>	NG160, NG160NA Vigi NG160	NG125, NG125NA, Vigi NG125, C120, Vigi C120, iC120, Vigi iC120	ComPacT INS40/160	ComPacT INS-INV100/160 with long terminal shields
No. of vertical modules	5	5	4	5
Rail (48 modules of 9 mm)	LVS03402 (adjustable) <sup>(1)</sup> + LVS04227	LVS03401	LVS03401	LVS03401
Modular front plates	LVS03205	LVS03205	LVS03204	LVS03205
Blanking plate strip	LVS03220		LVS03220	
divisible	LVS03221		LVS03221	

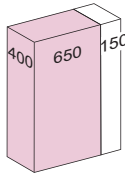
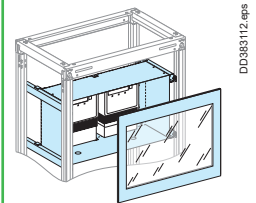
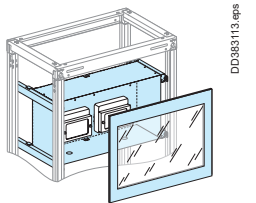
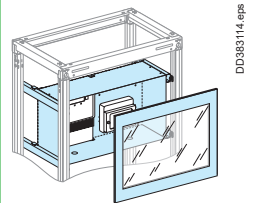
Mounting	Circuit breakers		Switch-disconnectors	
				
<b>Devices</b>	NG160, NG160NA, NG125, NSA125/160		INS-INV40/160	INS-INV100/160 with long terminal shields
No. of vertical modules	5		4	5
Rail (20 modules of 9 mm)	LVS03404 (adjustable) <sup>(2)</sup>		LVS03404 (adjustable)	LVS03404 (adjustable)
Front plates modular	LVS03214 [4]		LVS03214 [4]	LVS03214 [4]
[No. of vertical modules] downstream	LVS03811 [1]		–	LVS03811 [1]
Blanking plate strip	LVS03220		LVS03220	LVS03220
divisible	LVS03221		LVS03221	LVS03221

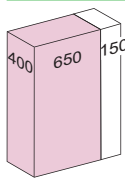
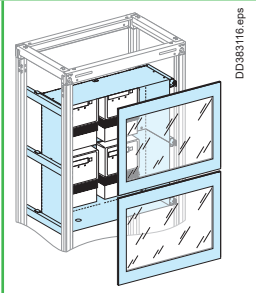
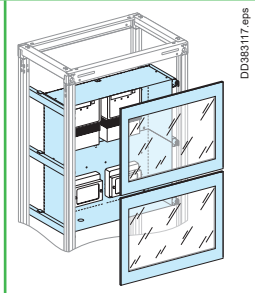
## Metering

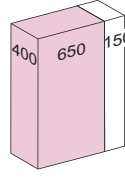
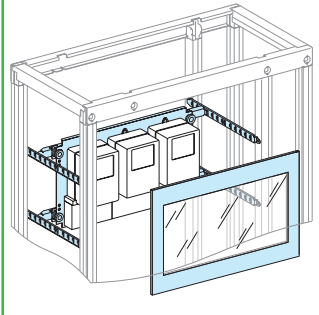
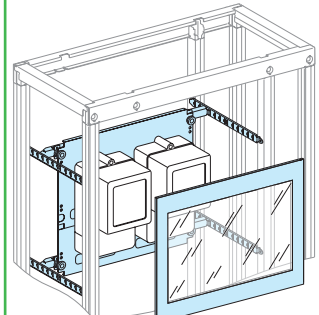
Single-phase and 3-phase kilowatt-hour meters

Class 1 & 2

Others

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		LVS03508	LVS03508	LVS03508
Front plates	transparent	LVS03343 [6]	LVS03343 [6]	LVS03343 [6]
[No. of vertical mod.]	or plain	LVS03806 [6]	LVS03806 [6]	LVS03806 [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 LVS03508	2 x LVS03508
Front plates	transparent	2 x LVS03343 [6]	2 x LVS03343 [6]
[No. of vertical mod.]	or plain	2 x LVS03806 [6]	2 x LVS03806 [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		–	LVS03152
Front plates	transparent	LVS03343 [6]	LVS03344 [9]
[No. of vertical mod.]	or plain	LVS03806 [6]	–
Insulating plate		–	–
Adapter		LVS03595	LVS03595
Accessories		M5 spacers for mounting plate > page D-25	

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

# Metering and human-switchboard interface

## PowerLogic™ Meters

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.

#### Acti9 iEM2000 & iEM3000 series



The Acti9 iEM2000 & 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 Acti9 iEM2000 & 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.

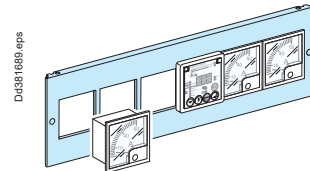
#### Possible installation

Cat. number	LVS03904	LVS03928	LVS03910	LVS03911	LVS03913	LVS03914
Front plate frame support (LVS08566)	■	■	■	■	■	■
L300/L400 with cut-out (LVS08593, LVS08594)	■	■	■	■	■	-

**Note:** Device mounting on door: earthing braid (cat. no. LVS08910) or earthing wire (cat. no. LVS08911) mandatory.

### Installation in a switchboard

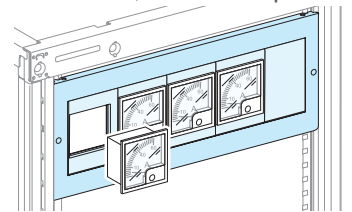
On a metal front plate with cut-outs, H = 150 mm (3 modules)



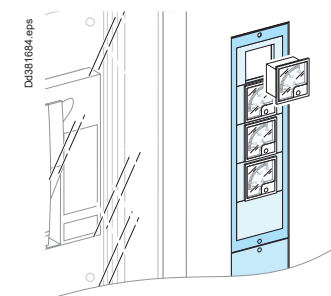
- > Devices are attached directly to the metal front plate.
- > Blanking plates are available to blank off any unused locations.
- > Economical solution.



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




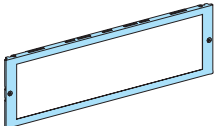



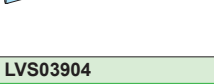



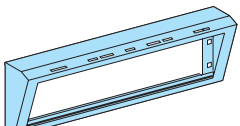







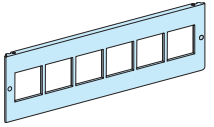


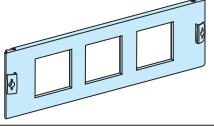


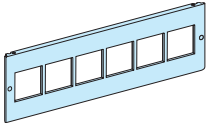





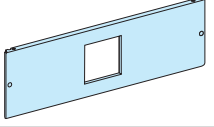





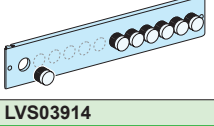

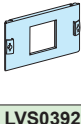

- > On a door with cut-outs in a 300 or 400 mm wide cubicle
- > On a inclined visor



The degree of protection for installed devices is IP30.

#### Notes:

- 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.
- With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. LVS08585). The earthing braid must be connected to the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else).
- With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else) must be connected to the cubicle frame, using an earthing braid (cat no. LVS08910 or LVS08911). (standard NF / EN 61439-1 2011 edition).

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
<b>W650 mounting on an interface with plastic mounting plates</b>				
5 x  Vigirex and others devices 72 x 72	 DD385458.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	 LVS03904		 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
2 x  (2) For PM200, 200P, PM5 & PM8 series meters		 DD385469.eps	 DD385468.eps	
<b>W650 mounting on an inclined visor by 30° with plastic mounting plates</b>				
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	 LVS03928 (1)		 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
2 x  (2) For PM200, 200P, PM5 & PM8 series meters		 DD385469.eps	 DD385468.eps	
<b>W650 direct mounting on a metal front plate with cut-outs</b>				
<b>72 x 72 device</b>				
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
	LVS03910		-	LVS03907
<b>96 x 96 device</b>				
3x  Power Meter and others devices 96 x 96	 DD119465.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
	LVS03911		-	LVS03908
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
	LVS03913		-	LVS03908
<b>144 x 144 device + 72 x 72 devices</b>				
1 x  144 x 144 device + devices 72 x 72		4	Direct mounting	 DD385469.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
4 x 			-	LVS03907
<b>W650 pushbuttons and lamps Ø 22 mm</b>				
12 x 	 DD385464.eps	2	Direct mounting	
	LVS03914		-	-
<b>W400 front plate</b>				
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
	LVS03923		-	LVS03908

(1) The visor (cat. no. LVS03928) can be installed on a plain door with cut-out.

(2) For PM200, 200P, PM5 & PM8 series meters, use 2 no. blank off sheets between each meter.

Metering and human-switchboard interface

PowerLogic™ Meters

Vigilohm, Vigirex

Others

Mounting		Powerlogic system				
Devices		<b>FDM121, PM5000 &amp; PM8000 series <sup>(2)</sup></b> 1 device	<b>3 devices</b>	<b>PM3000 series, IEM2000 &amp; iEM3000 series</b>	<b>FDM128 <sup>(1)</sup></b>	<b>PM5RD, PM89RD96, PM5563RD <sup>(3)</sup></b>
Number of vertical mod.		3	3	3 or 4	4	4
DIN rail		-	-	LVS03402	-	LVS03402
Front plates [No. of vert. modules]	transparent	-	-	LVS03342 [4]	-	-
	plain	-	-	-	LVS03804 [4]	LVS03804 [4]
Front plates with cut-out	-	LVS03913 [3]	LVS03911 [3]	LVS03203 [3]	-	-
	with cut-out	with cut-out for devices 96 x 96			hole ø 22 mm to be stamped	hole ø 30 mm to be stamped

Mounting		Powerlogic system		
Devices		<b>FDM121, PM5000 series, PM8000 series <sup>(2)</sup></b>	<b>FDM128 <sup>(1)</sup></b>	<b>PM5RD, PM89RD96, PM5563RD <sup>(3)</sup></b>
Number of vertical mod.		3	4	4
DIN rail		-	-	LVS03404
Front plates [No. of vert. modules]	with cut-out	LVS03923 [3]	-	-
	plain	-	LVS03814 [4]	LVS03814 [4]
Front plate		with cut-out for devices 96 x 96	hole ø 22 mm to be stamped	hole ø 30 mm to be stamped

Mounting		Vigilohm		
Devices		<b>IM400</b> with 3 XD301 or with 1 or 2 IFL12	<b>IM10, IM10H, IM20, IM20H</b> <b>HV-IM20, HV-IM400, IM9, IM9-OL</b>	<b>IM10 / IM10H</b> <b>IM20 / IM20H</b>
Number of vertical mod.		6	3	3
Modular rail		-	LVS03401	-
Mounting plates		LVS03930	-	-
Front plates with cut-outs		LVS03932	LVS03203	LVS03911
Characteristics		Installation in the device compartment		

Mounting		Vigirex		Acti 9	
Devices		<b>RH10/RH21/RH99/RH197M relays</b>		<b>Lamps, pushbuttons</b>	
Number of vertical mod.		3		2	
Modular rail		LVS03401		LVS03401	
Front plates with cut-outs		LVS03203		LVS03203	
Blanking strip		LVS03220		LVS03220	
plate divisible		LVS03221		LVS03221	
Characteristics		Installation in the device compartment			

(1) For 72 x 72 mm cases > page D-76.

(2) Only for flush-2mounted versions of PM5000 series and PM8000 series.

(3) Only for remote-display versions of PM5000 series and PM8000 series.



# Linergy Distribution Systems

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# Linergy LGYE

Horizontal profiles up to 3200 A

400 mm deep installation

Power busbars

Linergy LGYE profiles		Up to 1600 A					Up to 2500 A		Up to 3200 A	
Installation Linergy profiles, 2000 mm length										
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	
Number of profiles per phase		1								
Total number of vertical modules (50 mm)		3					3		4	
Catalog numbers		LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04565	LVS04566	LVS04567	

Busbar supports		LVS04662		LVS04664	
Characteristics		Two fixed supports for 650 mm or 650 + 150 mm wide PrismaSeT P frameworks and one fixed support for 300/400 mm wide PrismaSeT P frameworks are mandatory. If more supports are required, use free supports. <b>Note:</b> In case of 600 mm depth with 115 mm between centers, replace LVS04664 fixed support by LVS04665 and LVS04662 free support by LVS04678.			
In cubicle W = 650 or W = 650+150 busbar supports 75 mm between centres	Number of supports	≤ 15	2		
	depending on l <sub>cw</sub> (kA rms/1 s)	≤ 25	2		
Number of supports	≤ 30	2			
	≤ 40	2			
75 mm between centres	≤ 50	2	2		
	≤ 60	2	2+1	2	
Number of supports	≤ 65	2	2+1		
	≤ 75	2	2+1		
Number of supports	≤ 85	2	2+1		
	≤ 100	2	2+3		
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 <sup>(1)</sup> (hardware)	LVS04664 + LVS04646 <sup>(2)</sup> (hardware)	
	Free support	LVS04662	LVS04662 + LVS04671 <sup>(1)</sup> (hardware)	LVS04662 + LVS04646 <sup>(2)</sup> (hardware)	
In cubicle W = 800 busbar supports 75 mm between centres	Number of supports	≤ 100	2 + 4 <sup>(3)</sup>		
	depending on l <sub>cw</sub> (kA rms/1 s)				
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 <sup>(1)</sup> (hardware)	LVS04664 + LVS04646 <sup>(2)</sup> (hardware)	
	Free support	LVS04662	LVS04662 + LVS04671 <sup>(1)</sup> (hardware)	LVS04662 + LVS04646 <sup>(2)</sup> (hardware)	
In duct W = 300 busbar supports 75 mm between centres	Number of supports	≤ 60	1		
	depending on l <sub>cw</sub> (kA rms/1 s)	≤ 85	1 + 1		
Number of supports	≤ 100	1	1 + 1		
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 <sup>(1)</sup> (hardware)	LVS04664 + LVS04646 <sup>(2)</sup> (hardware)	
	Free support	LVS04662	LVS04662 + LVS04671 <sup>(1)</sup> (hardware)	LVS04662 + LVS04646 <sup>(2)</sup> (hardware)	
In duct W = 400 busbar supports 75 mm between centres	Number of supports	≤ 50	1		
	depending on l <sub>cw</sub> (kA rms/1 s)	≤ 85	1 + 1		
Number of supports	≤ 100	1	1 + 1		
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 <sup>(1)</sup> (hardware)	LVS04664 + LVS04646 <sup>(2)</sup> (hardware)	
	Free support	LVS04662	LVS04662 + LVS04671 <sup>(1)</sup> (hardware)	LVS04662 + LVS04646 <sup>(2)</sup> (hardware)	

Joints		Up to 1600 A					Up to 2500 A		Up to 3200 A
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
Catalog numbers		LVS04620					LVS04624		LVS04623
		3x LVS04620 (3P) 4x LVS04620 + LVS04624 (4P)					3x LVS04621 (3P) 4x LVS04621 + LVS04624 (4P)		3x LVS04623 (3P) 4x LVS04623 + LVS04624 (4P)
Note		LVS04624 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) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Contains 2 threaded rods and 4 insulators.  
 (2) LVS04646: mounting hardware for bars or profile H = 150 mm. Contains 2 threaded rods and 2 insulators. **Note:** For accessories > page D-85.  
 (3) It is applicable for W800 control panel configuration only.

# Linergy LGY

Lateral profiles up to 3200 A

400 mm deep installation

Power busbars

Linergy LGY profiles		Up to 1600 A (simple busbars)					Up to 3200 A (double busbars)		
In duct Linergy profiles, 1670 mm length		W150					2 x W150		
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	590 A	760 A	1040 A	1290 A	1650 A	2000 A	2500 A	3200 A
Number of profiles per phase		1					2		
Catalog numbers		LVS04502	LVS04503	LVS04504	LVS04505	LVS04506	LVS04504	LVS04505	LVS04506

Busbar supports		Fixed support LVS04651	
	Characteristics	An end stop must be installed on the bottom support: LVS01109 (set of 12).	
	Number of supports depending on Icw (kA rms/1 s)	≤ 25 ≤ 30 ≤ 40 ≤ 50 ≤ 60 ≤ 65 ≤ 75 ≤ 85	3 3 3 4 5 5 7 8
Catalog numbers	Fixed support	LVS04651	
	Chock	LVS01109	

D

Equipotential links		Connection made with a flat 80 x 10 mm busbar between 2 W150 ducts	
	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 Linergy LGYE busbars	
	≤ 1600 A Supplied with mounting hardware. Catalog numbers include 1 connection only: 1 connection per phase.
Cat. no. according to horizontal busbar size	LVS04602 (vertical connection) LVS04603 (vertical shifted connection) <sup>(1)</sup>

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


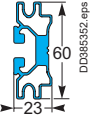
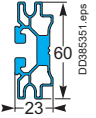
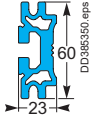
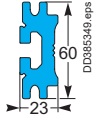
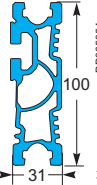
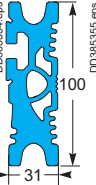

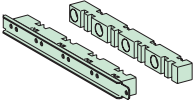
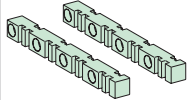
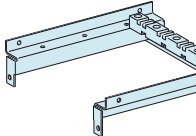
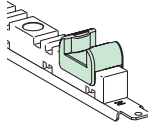
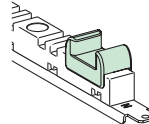
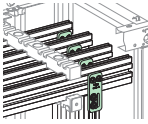
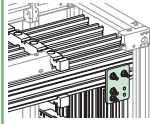
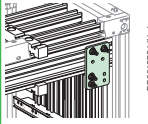
(2) LVS04642: mounting hardware for bars > 80 mm. Comprises 2 threaded rods.

# Linergy LGYE

Lateral profiles up to 3200 A

400 mm deep installation

Power busbars

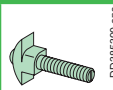
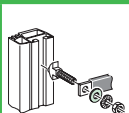
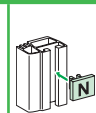
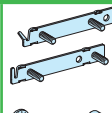
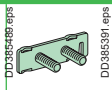
Linergy LGYE profiles			Linergy profile, 2000 mm length <sup>(1)</sup>					Linergy profile, 1625 mm length			
In duct			<b>W150</b>					<b>W150</b>	<b>W300</b>		
Linergy profile											
			630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31		630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	
	IP > 31		530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	
Length to cut for side mounting			1675 mm					-		-	
Number of profiles per phase			1								
<b>Catalog numbers</b>			<b>LVS04560</b>	<b>LVS04561</b>	<b>LVS04562</b>	<b>LVS04563</b>	<b>LVS04564</b>	<b>LVS04507</b>	<b>LVS04508</b>	<b>LVS04509</b>	
<b>Busbar supports</b>											
			Fixed support <b>LVS04661</b>			Free support <b>LVS04662</b>		Bottom support <b>LVS04666</b>			
			<p>Characteristics</p> <p>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.</p> <p><b>Note:</b> In case of 600 mm depth with 115 mm between centers, replace <b>LVS04661</b> fixed support by <b>LVS04668</b>, free support <b>LVS04662</b> by <b>LVS04678</b> and bottom support <b>LVS04663</b> or <b>LVS04666</b> by <b>LVS04673</b>.</p>								
			Number depending on l <sub>cw</sub> (kArms/1 s)	≤ 30	3	≤ 40	-	3+2	3		
			≤ 50	-		3+2	3				
			≤ 60	-		3+2		3			
			≤ 65	-			3+2				
			≤ 75	-			3+4		3+2		
			≤ 85	-			3+4				
			≤ 100	-				3+6			
In duct W150, W = 300 busbar supports 75 mm between centres	<b>Catalog numbers</b>	Fixed support	<b>LVS04661</b>				<b>LVS04661 + LVS04671</b> <sup>(2)</sup>		<b>LVS04661 + LVS04646</b> <sup>(3)</sup>		
		Free support	<b>LVS04662</b>				<b>LVS04662 + LVS04671</b> <sup>(2)</sup>		<b>LVS04662 + LVS04646</b> <sup>(3)</sup>		
<b>Busbars chocks</b>											
			Chocks installed on a bottom support <b>LVS04658</b>			Chocks installed on a bottom support <b>LVS04659</b>					
			<p>Characteristics</p> <p>The bottom support maintains the sections in position.                      It is not considered a busbar support.</p>								
In duct W150, W = 300	<b>Catalog numbers</b>	Bottom support	<b>LVS04663</b>				<b>LVS04666 + LVS04661</b>				
		Chocks	<b>LVS04658</b>				<b>LVS04659</b>				
<b>Connections to the horizontal Linergy LGYE busbars</b>											
			630 to 1600 A			2000 to 2500 A		3200 A			
			<p>Characteristics</p> <p>Supplied with mounting hardware.                      Catalog numbers include 1 connection only: 1 connection per phase.</p>								
		<b>Cat. no. according to horizontal busbar size</b>	<b>LVS04602</b> (straight connection) <b>LVS04603</b> (shifted connection)				<b>LVS04604</b> (short connection) <b>LVS04605</b> (long connection)		<b>LVS04607</b>		

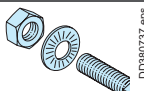
(1) Linergy LGYE profiles up to 1600 A must be cut at the dimension of the cubicle : 1625 mm  
 (2) **LVS04671**: mounting hardware for bars or profile H = 100 or 120 mm. Containt 2 threaded rods and 4 insulators.  
 (3) **LVS04646**: mounting hardware for bars or profile H = 150 mm. Containt 2 threaded rods and 3 insulators.


# Linergy busbars

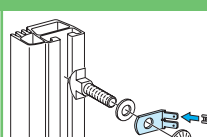
## Accessories

### Power busbars

Accessories											
	 DD385390.eps		 DD381219-LIN-16.eps			 DD381222-LIN-10.eps		 DD385391.eps		 DD385391.eps	
	Linergy connection hardware		Steel flat washers			Brass flat washers		Markers		Screwplate	
Cat. no.	<b>LVS04766</b>	<b>LVS04767</b>	<b>LVS04772</b>	<b>LVS04773</b>	<b>LVS04774</b>	<b>LVS04775</b>	<b>LVS04794</b>	<b>LVS01130</b>	<b>LVS04768</b>	<b>LVS04769</b>	
Characteristics	L 25 mm	L 39 mm	20 mm ext. Ø	24 mm ext. Ø	28 mm ext. Ø	20 mm ext. Ø		2 studs	2 studs	3 studs	
	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.		M8 set of 20			M8 sold in lots of 20 for connection of ≤ 25 mm <sup>2</sup> lugs to Linergy	12 clip-on supports + N, L1, L2, L3, PE, PEN labels	Linergy LGYE busbars connection kit spare part	Set of 12 flat plates with 2 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile.	Set of 8 flat plates with 3 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile.	

M8 bolts		
	 DD380737.eps	
Linergy BS, 20 bolts class 8.8	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers.
	<b>Catalog numbers</b>	<b>LVS04782</b>
	M8 x 20	<b>LVS04783</b>
	M8 x 25	<b>LVS04784</b>
	M8 x 30	<b>LVS04785</b>
	M8 x 35	<b>LVS04786</b>
	M8 x 40	<b>LVS04787</b>
	M8 x 45	<b>LVS04788</b>
	M8 x 50	<b>LVS04788</b>

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.
	<b>Catalog numbers</b>	<b>LVS04759</b>

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. LVS04775) between the busbar and the lug.
	<b>Catalog numbers</b>	<b>LVS04229</b>

### ★ Connections on Linergy LGYE & LGY

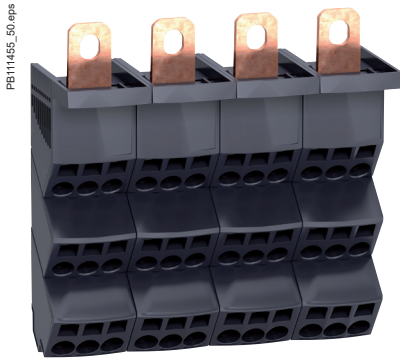
InA (A)		Connecting to Linergy LGYE	Connecting to Linergy LGY
0 to 630	Cable - Insulated flexible bars	25 mm Linergy connection hardware used	25 mm Linergy connection hardware used
800 to 1250	5 mm bars	25 mm Linergy connection hardware used	25 mm Linergy connection hardware used
1600 to 2500	5 mm or 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:** Jointing between 2 busbars (horizontal/vertical or horizontal/horizontal) must be mandatory done with studs plates.

# Linergy DP

Quick distribution blocks - ComPacT NSX and INS-INV up to 250 A

## Distribution blocks






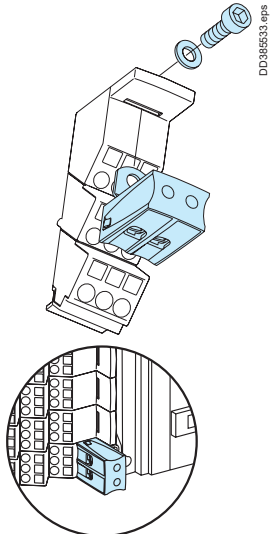
### IEC 60947-7-1, IEC 61439-1 and 2

#### Description

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

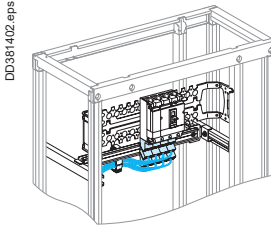
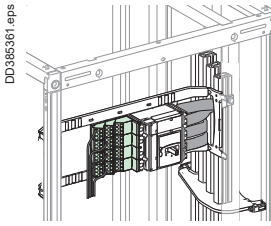
#### Advantages

- 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			Additional block	
Number of poles	3P	4P	3P/4P	
				
Rated operational current (Ie)	250 A	250 A	250 A	
Rated peak withstand current (Ipk)	30 kA	30 kA	30 kA	
Rated short-time current (Icw)	8.5 kA rms/1 s	8.5 kA rms/1 s	—	
Thermal stress (I <sup>2</sup> .t)	7.225 x 10 <sup>7</sup>	7.225 x 10 <sup>7</sup>	—	
Total connection capacity, outgoing terminals	27 connections: 6 x 10 <sup>2</sup> /phase 3 x 16 <sup>2</sup> /phase	36 connections: 6 x 10 <sup>2</sup> /phase 3 x 16 <sup>2</sup> /phase	2 connections: 2 x 35 <sup>2</sup> /pole	
Incomer terminals	1 cable lug 120 mm <sup>2</sup> per pole			
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			
Standard for installation inside PrismaSeT	IEC 61439-1-2			
Glow-wire 60695-2-11	960 °C			
Catalogue numbers	LVS04033	LVS04034	LVS04155 (3P) LVS04156 (4P)	

Technical Data	
<b>Common characteristics</b>	
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
<b>Additional technical characteristics</b>	
Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C

### Installation

It can also be mounted downstream of vertically mounted **ComPacT NSX100/250 and ComPacT INS-INV250** devices in the enclosures. In this case, the Linergy DP is mounted on a depth-adjustable modular rail.

Directly on the mounting plates of horizontally mounted **ComPacT NSX100/250 and ComPacT INS-INV250** devices in the enclosures.

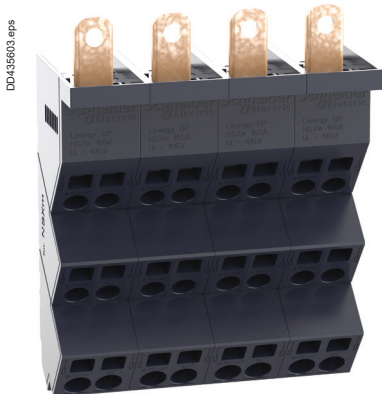
For details on mounting plates, refer [pages D-52, D-53 and D-54](#).

**Note:** Electrical characteristics > page D-111.

# Linergy DP

Quick distribution blocks - ComPacT NSXm up to 160 A

## Distribution blocks



### IEC 60947-7-1, IEC 61439-1 and 2


#### Description

■ The Linergy DP quick distribution block is designed for installation directly downstream of ComPacT NSXm up to 160 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

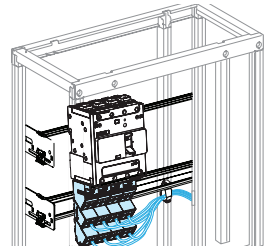
Number of poles	3P	4P
		
Rated operational current (Ie)	160 A	160 A
Rated peak withstand current (Ipk)	20 kA	20 kA
Rated short-time current (Icc)	70 kA	70 kA
Thermal stress (I <sup>2</sup> t)	4.7 x 10 <sup>6</sup> A <sup>2</sup> S	4.7 x 10 <sup>6</sup> A <sup>2</sup> S
Total connection capacity, outgoing terminals	18 connections: 4 x 10 <sup>2</sup> /phase 2 x 16 <sup>2</sup> /phase	24 connections: 4 x 10 <sup>2</sup> /phase 2 x 16 <sup>2</sup> /phase
Incomer terminals	1 cable lug 70 mm <sup>2</sup> per pole	
Dimensions (H x W x D)	140 X 81 X 58 mm	140 X 108 X 58 mm
Installation	On mounting plate or DIN rail	
Product certifications	ASEFA	
Standard for installation inside PrismaSeT	IEC 61439-1-2	
Glow-wire 60695-2-11	960 °C	
Catalogue numbers	LVS04038	LVS04039



### Technical Data

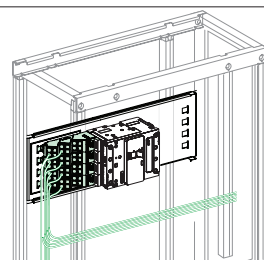
Common characteristics		
Rated conditional short-circuit current of an assembly (Isc)		The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage (Ui)		800 V AC
Rated operational voltage (Ue)		690 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
Additional technical characteristics		
Reference temperature		40 °C
Operating temperature		-25 °C to 55 °C

### Installation



DD435606.eps

It can also be mounted downstream of vertically mounted **ComPacT NSXm** devices in the enclosures. In this case, the Linergy DP is mounted on a depth-adjustable modular rail.



DD435607.eps

Directly on the mounting plates of horizontally mounted **ComPacT NSXm** devices in the enclosures.

For details on mounting plates, refer [page D-55](#).

Note: Electrical characteristics > page D-111.

# Linergy FC

Feeders for ComPacT NSX and INS-INV up to 250 A

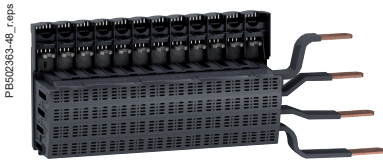
## Device feeders




### IEC 61439-1 and 2

#### Description

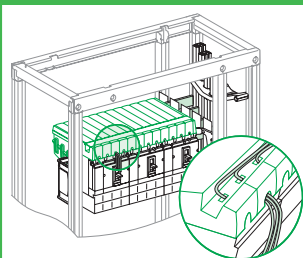
Linergy FC is an insulated horizontal distribution block. It connects directly to the mounting plate and can supply:

- Three 4P and four 3P 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 4P or four 3P ComPacT INS-INV switch-disconnectors, whatever the ratings (100, 160 or 250 A), whether front or rear connection.
- The design and small size blend thoroughly with the devices.
- It can be supplied by Linergy LGY busbars positioned to the left or right.
- Fully insulated, Linergy FC helps to protect 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 for 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.

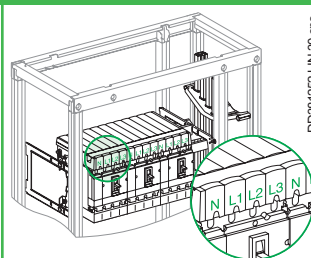


	ComPacT NSX100/250 & INS-INV250 - Toggle, fixed		ComPacT NSX100/250 - Rotary handle, motor mechanism - plug-in, fixed, ComPacT NSX100/250 - All controls, withdrawable		ComPacT NSX100/250 & INS-INV250 - All controls, fixed and withdrawable	
						
	Linergy FC with prefabricated connections by insulated flexible bars <sup>(1)</sup>		Linergy FC with prefabricated connections <sup>(1)</sup>		Linergy FC without prefabricated connections <sup>(1)</sup>	
Number of poles	3P	4P	3P	4P	3P	4P
Connection to	Linergy LGY busbars		Linergy LGY or Linergy LGYE busbars		Linergy LGY or Linergy LGYE busbars	
Number of devices	4	3	4	3	4	3
Composition	Self-adhesive labels to mark the phases for connections to the busbars.					
<b>Mounting plates</b>						
Toggle, Fixed, NSX100/250	LVS03420	LVS03420	-	-	LVS03420	LVS03420
Toggle, Plug-in, NSX100/250	-	-	LVS03423	LVS03423	LVS03423	LVS03423
Rotary handle, motor mechanism - plug-in, Fixed, NSX100/250	-	-	LVS03422	LVS03422	LVS03422	LVS03422
Cat. no.	LVS04403	LVS04404	LVS04405	LVS04406	LVS04407 <sup>(2)</sup>	LVS04408 <sup>(2)</sup>

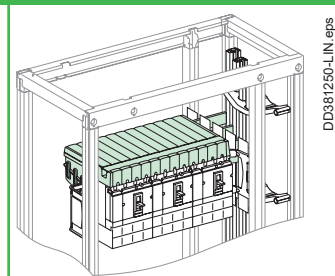
### Implementation



Auxiliary wires running in the built-in trunking.



Phase marking on the front of the distribution block.



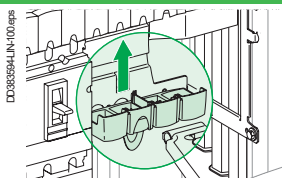

<sup>(1)</sup> The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit (LVS04924).

<sup>(2)</sup> For the connection, use insulated flexible bars, 32 x 8 mm cat. no. LVS04753; Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

# Linergy FC

Feeders for ComPacT NSX and INS-INV up to 250 A

## Device feeders

Accessories	
	
	<b>Tooth caps</b> 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.
<b>Catalog numbers</b>	<b>LVS04809</b>

## Characteristics

Common characteristics		
Rated operational current at 40°	(Ie)	Distribution-block derating follows the normal derating curves of ComPacT NSX and INS-INV.
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 with upstream protection of 85 kA Icc	(Icc)	85 kA
Thermal stress	(I².t)	2.500 x 10 <sup>7</sup>
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.



## Linergy 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 <sub>nc</sub> (A)	3P	800	800	775	750	725	700	675
	4P	675	675	655	635	615	595	570

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.

# Linergy FC

Feeders for ComPacT NSXm up to 160 A

Device feeders

## IEC 61439-1 and 2

### Description

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




- Four 4P and five 3P ComPacT NSXm circuit breakers (four 3P and 4P for ComPacT NSXm Vigi), whatever the ratings (63, 100 or 160 A) with toggle and direct rotary handle operating mechanism.
- The design and small size blend thoroughly with the devices.
- It can be supplied by Linergy LGYE and Linergy LGY busbars positioned to the left or right.
- Fully insulated, Linergy FC helps to protect 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 for the phases.
- The running of auxiliary cables between the devices and the corresponding terminal blocks is also considered. Spacious trunking is built into the blocks for the auxiliary wiring.

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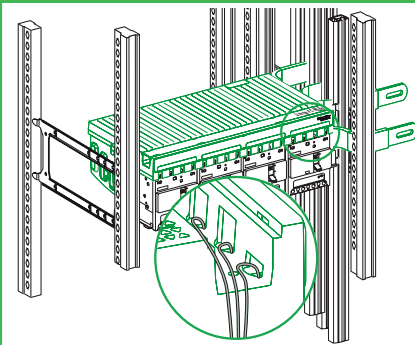


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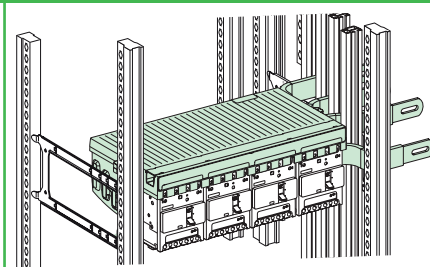
	ComPacT NSXm - Toggle (with Everlink terminal)		ComPacT NSXm - Toggle/ DRH (with Everlink terminal)			
						
	Linergy FC with pre-fabricated connections by insulated flexible bars <sup>(1)</sup>		Linergy FC with pre-fabricated connections <sup>(1)</sup>		Linergy FC without pre-fabricated connections <sup>(1)</sup>	
Number of poles	3P	4P	3P	4P	3P	4P
Connection to	Linergy LGY busbars		Linergy LGYE busbars			
Number of devices	5 <sup>(2)</sup>	4	5 <sup>(2)</sup>	4	5 <sup>(2)</sup>	4
Mounting plates	LVS03416	LVS03416	LVS03416	LVS03416	LVS03416	LVS03416
Cat. no.	LVS04410	LVS04411	LVS04412	LVS04413	LVS04419 <sup>(3)</sup>	LVS04420 <sup>(3)</sup>
	LVS04416 <sup>(3)</sup>		LVS04417		LVS04418 <sup>(3) (4)</sup>	

## Implementation



Auxiliary wires running in the built-in trunking.

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DD435613.eps

<sup>(1)</sup> The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit (LVS04924).

<sup>(2)</sup> Linergy FC configuration having NSXm with Vigi can mount four devices in a row for both 3P and 4P.

<sup>(3)</sup> For the connection, use insulated flexible bars, 32 x 6 mm cat. no. LVS04752; Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

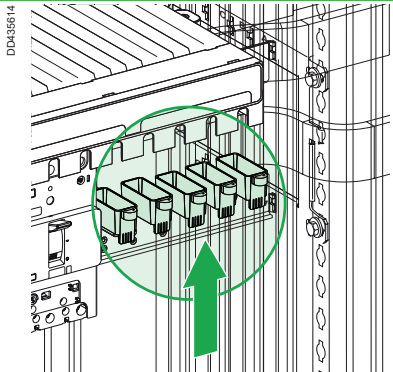
<sup>(4)</sup> The catalogue reference number is used only with NSXm Vigi.

# Linergy FC

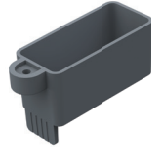
Feeders for ComPacT NSXm up to 160 A

## Device feeders

**Accessories**



D0438614



D0438615

**Tooth caps**

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

**Catalogue numbers**

**LVS04810**

### Characteristics

Common characteristics		
Rated operational current at 40°	(Ie)	Distribution-block derating follows the normal derating curves of ComPacT NSXm.
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)	800 V AC
Rated operational voltage	(Ue)	690 V AC
Rated impulse withstand voltage	(Uimp)	8 kV
Rated peak withstand current	(Ipk)	18 kA
Rated short-time current with upstream protection of 85 kA Icc	(Icc)	50 kA
Thermal stress	(I².t)	4.5 x 10⁶ A²S
Rated conditional short-circuit current of an assembly		Short-circuit withstand current compatible with the breaking capacity of the ComPacT NSXm circuit breakers connected to the distribution block.



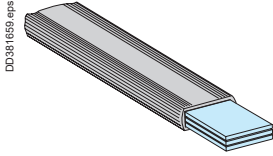
### Linergy FC selection table for special cases

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					
Ambient Air Temperature outside panel (°C)		35	40	45	50
IP31 (A)	3P	600	575	550	525
	4P	500	480	460	440
IP55 (A)	3P	515	500	475	450
	4P	460	440	420	400

## Insulated flexible bars

## Secondary distribution



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 PrismaSeT switchboard.

## Characteristics

Length	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)	Catalog number
NSX100	20 x 2	LVS04742
NSX160/250	20 x 3	LVS04743
NSX400	32 x 5	LVS04751
NSX630	32 x 8	LVS04753
NSX100 ELCB	20 x 2	LVS04742
NSX160/250 ELCB	20 x 3	LVS04743
NSX400 ELCB	32 x 5	LVS04751
NSX630 ELCB	32 x 8	LVS04753
INS-INV125/160	20 x 2	LVS04742
INS-INV250	20 x 3	LVS04743
INS-INV400	32 x 5	LVS04751
INS-INV630	32 x 6	LVS04752
FM 200 A Linergy	20 x 3	LVS04743
FC 3P Linergy	32 x 8 <sup>(1)(2)</sup>	LVS04753
FC 4P Linergy	32 x 8 <sup>(1)(2)</sup>	LVS04753
Fupact 250	24 x 5	LVS04746
Fupact 400	32 x 5	LVS04751
Fupact 630	32 x 8	LVS04753

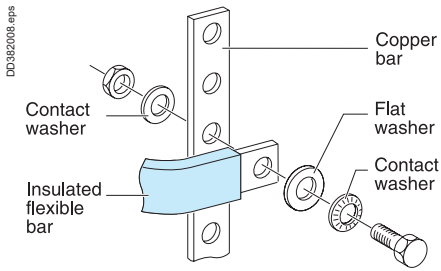
**(1)** In case of use of 32 x 6 insulated flexible bar, please contact Schneider Electric.

**(2)** Max length 500 mm per connection.

The references **87646** (3P) and **87647** (4P) can be used up to 250 A, when binding of insulated flexible bars, to withstand Icw.

**Note :** For NSXm connection, there is no flat insulated flexible bar available. Choose a cable prefabricated connection > page D-55.

### Secondary distribution



#### 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.

le <sup>(1)</sup> max	Size (mm)	Catalog numbers
200 A	20 x 2	LVS04742
250 A	20 x 3	LVS04743
400 A	24 x 5	LVS04746
520 A	32 x 5	LVS04751
580 A	32 x 6	LVS04752
660 A	32 x 8	LVS04753

(1) Rated operational current.

#### Designing connections

> page D-92.



# Linergy DX

## Quick distribution blocks

### Distribution blocks



### IEC 60947-7-1, IEC 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. 150 kA with upstream protection of 150 kA Icc	
Rated peak withstand current (Ipk)	10 kA	10 kA
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 (Icc)	150 kA	150 kA
Thermal stress (I².t)	9.03 x 10⁶	9.03 x 10⁶
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 PrismaSeT	IEC 61439-2	IEC 61439-2
Glow-wire 60695-2-11	960 °C	960 °C
Degree of pollution	3	3
Catalog numbers	LVS04040	LVS04041

### Accessories

Catalog numbers	–	–
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# Linergy DX

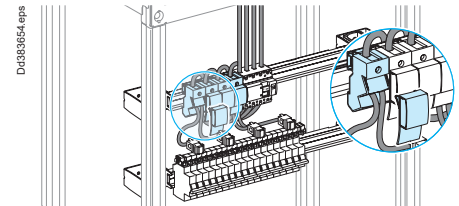
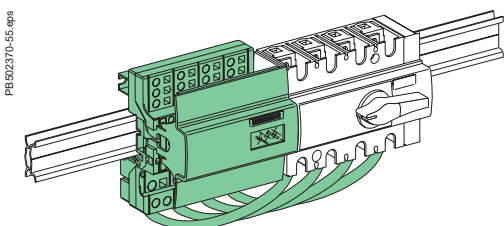
Quick distribution blocks

## Distribution blocks

### 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	
The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA with upstream protection of 150 kA Icc			
20 kA	20 kA	24 kA	24 kA
750 V AC	750 V AC	750 V AC	750 V AC
690 V AC	690 V AC	690 V AC	690 V AC
8 kV	8 kV	8 kV	8 kV
150 kA	150 kA	150 kA	150 kA
2.025 x 10 <sup>7</sup>	2.025 x 10 <sup>7</sup>	3.025 x 10 <sup>7</sup>	3.025 x 10 <sup>7</sup>
50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
IPxxB	IPxxB	IPxxB	IPxxB
1 tunnel terminal 35 <sup>2</sup> /phase	Supplied with a prefabricated flexible connection equipped with tunnel terminals (for INS-INV100/160 use adaptor <b>28947</b> (3P) <b>28948</b> (4P))	1 tunnel terminal 70 <sup>2</sup> /phase	
52 connections: 7 x 4 <sup>2</sup> /phase 3 x 6 <sup>2</sup> /phase 2 x 10 <sup>2</sup> /phase 1 x 16 <sup>2</sup> /phase (screw terminal)	52 connections: 7 x 4 <sup>2</sup> /phase 3 x 6 <sup>2</sup> /phase 2 x 10 <sup>2</sup> /phase 1 x 16 <sup>2</sup> /phase (screw terminal)	6 connections: 6 x 16 <sup>2</sup> /phase	
127 x 108 x 48 12 x 9 mm pitch	127 x 108 x 48 12 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 <sup>nd</sup> terminal block supplied from enclosed terminals in the 1 <sup>st</sup> , I <sub>max</sub> of 2 <sup>nd</sup> terminal block: 80 A)			
IEC 61439-2	IEC 61439-2	IEC 61439-2	
960 °C	960 °C	960 °C	
3	3	3	
<b>LVS04045</b>	<b>LVS04046</b> <sup>(1)</sup>	<b>LVS04031</b>	
4 x 125 A flexible connections, L = 240 mm with 1 end fitting for tunnel terminals.		4 x 160 A flexible connections, L = 380 mm with 2 x 45 mm <sup>2</sup> end fittings for tunnel terminals.	
<b>LVS04047</b> <sup>(1)</sup>		<b>LVS04149</b>	



Note: Electrical characteristics > page D-111.

(1) To be adapted with reference **28947** and **28948** fir INS-INV160.

Version : 1.0 - 12/06/2026  
INAR4200

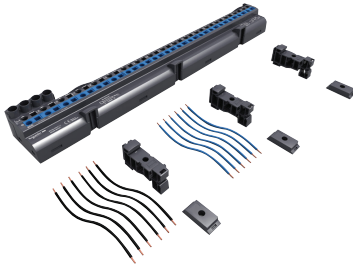


# Linergy FM

Quick device feeders

Device feeders

PB104505-50.eps



## IEC60947-7-1, IEC61439-1 and 2 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 ≥ 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
	<b>63 A</b>	<b>80 A</b>
Rated peak withstand current (I <sub>pk</sub> )	12 kA	13 kA
Rated conditional short-circuit current of an assembly (I <sub>sc</sub> )	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 (U <sub>i</sub> )	500 V AC	500 V AC
Rated voltage (U <sub>e</sub> )	440 V AC	440 V AC
Rated impulse withstand voltage (U <sub>imp</sub> )	6 kV	8 kV
Maximum current (I <sub>max</sub> )	–	–
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Supply at incoming terminals	Enclosed terminals for cables up to 25 mm <sup>2</sup>	Enclosed terminals for cables up to 25 mm <sup>2</sup>
Total connection capacity at outgoing terminals	Spring terminals for rigid or flexible cables: 4 for each phase (2 x 1 to 4 mm <sup>2</sup> + 2 x 1 to 6 mm <sup>2</sup> ) 8 for the neutral (4 x 1 to 4 mm <sup>2</sup> + 4 x 1 to 6 mm <sup>2</sup> )	Spring terminals for rigid or flexible cables: 9 for each phase (2 x 6 mm <sup>2</sup> + 7 x 4 mm <sup>2</sup> ) 17 for the neutral (4 x 6 mm <sup>2</sup> + 13 x 4 mm <sup>2</sup> )
Width	24 9-mm pitches 12 18-mm modules	48 9-mm pitches 24 18-mm modules
Composition	Stripped copper connections (L=100 mm) 10 x 4 mm <sup>2</sup> + 6 x 6 mm <sup>2</sup>	Stripped copper connections (L=105 mm) 6 mm <sup>2</sup> (6 black) 4 mm <sup>2</sup> (20 black)
Catalog numbers	<b>LVS04008</b>	<b>LVS04004</b>

### Installation

Clipped onto the back of a modular rail, or screw fixing.

Clipped onto the back of a modular rail, or screw fixing.

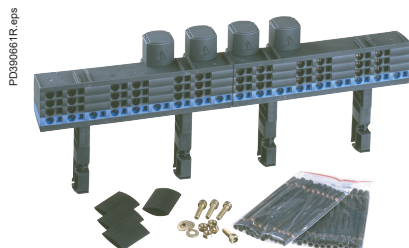
### Connections to the device feeders





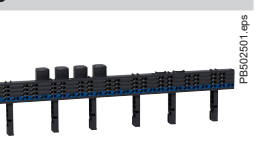
	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Linergy FM 1/2 row	200 A connection (20 x 3) for Linergy FM
Allows power supply from	Multi-stage Linergy BS busbar	Rear Linergy BS busbar	Device	Device
Catalog numbers	<b>LVS04024</b>	<b>LVS04029</b>	<b>LVS04030</b>	<b>LVS04743</b>

# Linergy FM

Quick device feeders

Device feeders



				
<b>160 A</b> 20 kA	<b>200 A</b> 20 kA	<b>200 A</b> 20 kA	<b>200 A</b> 20 kA	<b>200 A</b> 20 kA
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.				
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 <sup>2</sup> cable/63 A for feeder for two 10 mm <sup>2</sup> cables				
50/60 Hz				
IPxxB				
Direct onto the row by cable 70 mm <sup>2</sup> with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection.				
6 connection points for each phase 9 connection points for the neutral	12 connection points for each phase 18 connection points for the neutral		18 connection points for each phase 27 connection points for the neutral	
24 9-mm pitches 12 18-mm modules	48 9-mm pitches 24 18-mm modules		72 9-mm pitches 36 18-mm modules	
2 sachets with 12 stripped copper connections 10 mm <sup>2</sup> (L=100 mm) Protective covers for power supply rows (IPxxB) Fixing accessories for power supply rows				
<b>LVS04018</b> <sup>(1)</sup>	<b>LVS04012</b> <sup>(1) (2)</sup>	<b>LVS04013</b> <sup>(1)</sup>	<b>LVS04014</b> <sup>(1) (2)</sup>	<b>LVS04026</b> <sup>(1)</sup>

## Spare parts

	
<b>Catalog numbers</b>	4 covers for 160/200 A Linergy FM rows <b>LVS01202</b>

**Note:** Electrical characteristics > page D-111.

(1) Cable to be used without ferrules.

(2) The Linergy FM 200 (**LVS04012** and **LVS04014**) can be used with direct current. The upstream and downstream terminal type (⊕ and ⊖) must be marked on the device. For more information, please contact our customer services.

# Linergy DS

## Screw distribution blocks

### 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 PrismaSeT G and PrismaSeT 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
<b>Terminal capacity</b>				
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 <sub>pk</sub> )	I <sub>pk</sub> /60 ms	25 kA	36 kA	60 kA
	I <sub>pk</sub> /6 ms	–	–	–
Rated short-time withstand current (I <sub>cc</sub> ) (IEC/EN 60947-7-1)	36 kA	36 kA	36 kA	20 kA
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)	–	–	–	<b>LGYN1007</b>
Catalog numbers	<b>LGY112510</b>	<b>LGY116013</b>	<b>LGY125014</b>	<b>LGY410028</b>

# Linergy DS

## Screw distribution blocks

### Distribution blocks

#### Technical data

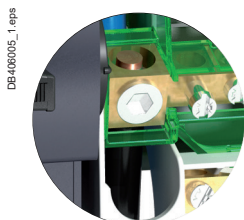
##### Common characteristics

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


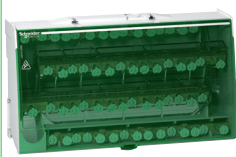
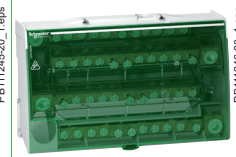



##### Additional technical characteristics

Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C
Dielectric withstand (IEC/EN 60947-1)	2500 V AC

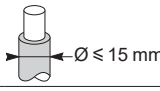


On LGY412560 and LGY416048 references.  
Input cabling facilitated by side terminals.



			Neutral terminal strip		
					
125 A	160 A	160 A	100 A	125 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	–	–	–
36 kA	36 kA	36 kA	–	–	–
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

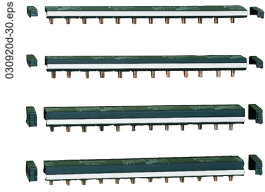
#### Terminal technical data

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 <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	2.5 to 25 mm <sup>2</sup>	6 to 35 mm <sup>2</sup>	10 to 35 mm <sup>2</sup>	10 to 35 mm <sup>2</sup>
Section flexible cable or with ferrule	1.5 to 10 mm <sup>2</sup>	1.5 to 10 mm <sup>2</sup>	1.5 to 10 mm <sup>2</sup>	1.5 to 10 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	4 to 25 mm <sup>2</sup>	4 to 25 mm <sup>2</sup>	6 to 35 mm <sup>2</sup>
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 <sup>2</sup>	1.5 to 50 mm <sup>2</sup>	25 to 70 mm <sup>2</sup>		35 to 120 mm <sup>2</sup>			
								
Section flexible cable or with ferrule	6 to 35 mm <sup>2</sup>	1.5 to 35 mm <sup>2</sup>	16 to 50 mm <sup>2</sup>		25 to 95 mm <sup>2</sup>			
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

Device feeders




## IEC 60664-1

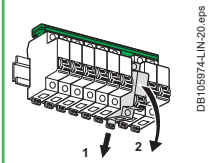
### Description

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
					
		Each com busbar reference includes: <ul style="list-style-type: none"> <li>■ 1 x single or 2 pole comb busbar + 8 tooth-caps + 2 side plates</li> <li>■ 1 x 3 or 4 pole comb busbar + 4 tooth-caps + 2 side plates</li> </ul> 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)			
<b>Use</b>					
		Power supply by connector recommended			
Number of 27 mm modules		16	16	15	16
Set of		1			
<b>Catalog numbers</b>		<b>14811</b>	<b>14812</b>	<b>14813</b>	<b>14814</b>

## Installation

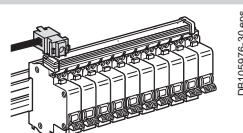
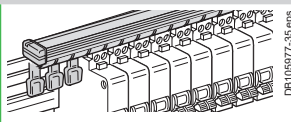


Comb busbars allow dismantability of switchgear.

## Accessories

Number of poles	1P, 2P, 3P, 4P	
		
		
	<b>Tooth caps</b>	<b>Insulated connector</b>
		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.
<b>Use</b>		
		For 25 mm <sup>2</sup> semi-rigid cable
Set of	20	4
<b>Catalog numbers</b>	<b>14818</b>	<b>14885</b>

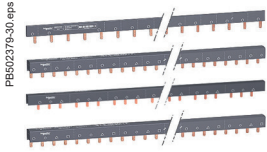
### Installation



# Linergy FH

Comb busbar for 18 mm pitch for Acti 9

Device feeders



## IEC 60947-7-1, IEC 61439-2

### Description

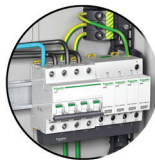
Comb busbars make it easier to install Acti 9 circuit breakers.

- 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.

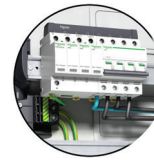
Acti 9		18 mm poles, cuttable										
Number of poles		1P	2P	3P	4P	3 (N+P)	Aux+1P	Aux+2P	Aux+3P	Aux+4P	3 (Aux+1P)	3 (Aux+N+1P)
Rated operational current at 40 °C (Ie)		100 A										
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Acti 9 circuit 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)										
<b>Use</b>												
		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	
<b>Catalog numbers</b>												
6 modules of 18 mm		A9XPH106	-	-	-	-	-	-	-	-	-	-
12 modules of 18 mm		A9XPH112	A9XPH212	A9XPH312	A9XPH412	A9XPH512 <sup>(1)</sup>	-	-	-	-	-	-
18 modules of 18 mm		-	-	-	-	A9XPH518 <sup>(1)</sup>	-	-	-	-	-	-
24 modules of 18 mm		A9XPH124	A9XPH224	A9XPH324	A9XPH424	A9XPH524 <sup>(1)</sup>	-	-	-	-	-	-
57 modules of 18 mm		A9XPH157	A9XPH257	A9XPH357	A9XPH457	A9XPH557 <sup>(1)</sup>	A9XAH157	A9XAH257	A9XAH357	A9XAH457	A9XAH657	A9XAH557 <sup>(1)</sup>

<sup>(1)</sup> This comb busbar is only compatible in top feeding for simple lug devices and bottom feeding on double lug devices.

### Installation



PB110296-20 eps



PB110795-20 eps

### Accessories

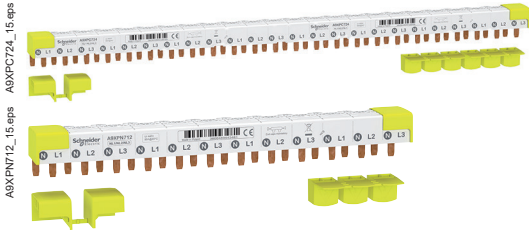
Number of poles	1P	2P	3P	4P	-	-	-	
	<b>Side plates</b>				<b>Tooth covers</b>		<b>Connectors</b>	
	Lateral end-caps providing IP20 protection				To insulate teeth that have been left free		<b>Monoconnect</b> Comb busbar power supply. Horizontal incomer on each side. For 35 mm <sup>2</sup> cable. Tightening torque 4 N.m 	
							<b>Double terminals</b> 	
Set of	10	10	10	10	20	4	4	
Catalog numbers	A9XPE110	A9XPE210	A9XPE310	A9XPE410	A9XPT920	A9XPCM04	A9XPCD04	



# Linergy FH

Horizontal comb busbar for 9 mm pitch for Acti 9, C60

Device feeders



## IEC 61439-1

### 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 Clario, Prodis and Libro switchgear in 9 mm modules.

Acti 9 Ph+N		9 mm poles, cuttable			
Number of poles		1P+N		3P+N	
		Complete comb busbars (supplied with 4 side plates and 1 tooth cover)			
Rated operational current at 40°C (Ie)		80 A			
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Schneider Electric circuit breakers.			
Insulation voltage (Ui)		400 V AC (Ph/N) - 440 V AC (Ph/Ph)			
Rated voltage (Ue)		230 V AC (Ph/N) - 400 V AC (Ph/Ph)			
Rated impulse withstand voltage (Uimp)		6 kV			
Degree of protection		IP20			
Fire resistance to IEC 695-2-1		Self-extinguishing 960°C 30 s			
Color		RAL 9003			
Number of 18 mm modules	Comb busbar	12	24	12	24
	Tooth cover	3	6	3	6
References		<b>A9XPC612</b>	<b>A9XPC624</b>	<b>A9XPC712</b>	<b>A9XPC724</b>
<b>Comb busbars alone</b>					
Number of 18 mm modules	Comb busbar	48		48	
References		<b>A9XPC648</b>		<b>A9XPC748</b>	

C60/ID Group Feeder comb busbars alone					
Number of poles		3P+N			
Rated operational current at 40°C (Ie)		80 A			
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Schneider Electric circuit breakers.			
Insulation voltage (Ui)		440 V			
Rated voltage (Ue)		230 V (P4 + N) - 400 V (3Ph + N)			
Rated impulse withstand voltage (Uimp)		6 kV			
Degree of protection		IP20			
Fire resistance to IEC 695-2-1		Self-extinguishing 960°C 30 s			
Color		RAL 7035			
Number of 18-mm modules		12	48	48	48
Power supply		Through left-hand	Through left-hand	Through left-hand	Through right-hand
References		<b>A9XPC812</b>	<b>A9XPC848</b>	<b>A9XPC848</b>	<b>A9XPC948</b>

Accessories				
Number of poles	1P+N	3P+N		
	End-pieces		Tooth covers (3 x 18 mm modules)	Connectors
Set of	40	40	12	4
References	<b>A9X21094</b>	<b>A9X21095</b>	<b>A9X21096</b>	<b>A9XPCM04</b>

# Linergy FH

Horizontal comb busbar for 9 mm pitch for Acti 9

Device feeders

## IEC 61439-1

### 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 PrismaSeT switchboard.
- 1P+N comb busbars with PrismaSeT and Pragma 24.

ABXPA648.eps

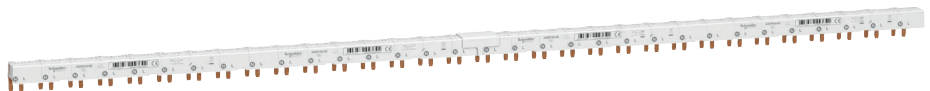


ABXPV648.eps



Acti 9	9 mm poles, cuttable			
Number of poles	1P+N	3P+N	1P+N	3P+N





ABXPA648.eps



	Comb busbars	Comb busbars DPN Vigi		
Rated operational current at 40°C (Ie)	80 A			
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Schneider Electric circuit breakers.			
Insulation voltage (Ui)	400 V AC (Ph/N) - 440 V AC (Ph/Ph)			
Rated voltage (Ue)	230 V AC (Ph/N) - 400 V AC (Ph/Ph)			
Degree of protection	IP20			
Fire resistance to IEC 695-2-1	Self-extinguishing 960°C 30 s			
Color	RAL 9003			
Number of 18-mm modules	48	48	48	48
References	A9XPA648	A9XPA748	A9XPV648	A9XPV748



## Accessories

Number of poles	1P+N	3P+N		
				
	<b>End-pieces</b>		<b>Tooth covers (3 x 18 mm modules)</b>	<b>Connectors</b>
Set of	40	40	12	4
References	A9X21094	A9X21095	A9X21096	A9XPCM04

# Linergy FH

Horizontal comb busbar for 18 mm pitch for Domae

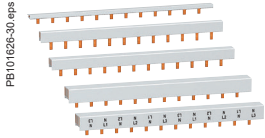
Device feeders

## IEC 61439-1, IEC 60664

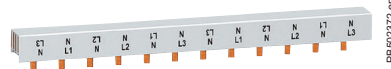
### Description

Comb busbars:

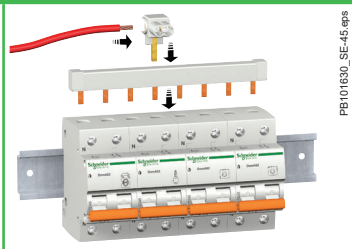
- Comb busbars ensure: Easy, reliable mounting of 1P+N and 3P+N, TL, CT, ID, V, BP and Cm switchgear: tooth positioning opposite the device terminals is ensured by indexing of copper parts.
- Can be sawn and cut in a single pass, with a metal saw (the end-caps are compulsory after cutting).
- Are supplied with 2 (IP20) lateral end-caps (mandatory).
- Teeth that have been left free can be insulated by tooth-caps.



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 <sup>2</sup> semi-rigid cables or 10 mm <sup>2</sup> flexible cables											
		By connector											
Number of 18 mm modules		12	57	12	57	12	57	12	57	12	57	12	57
Catalog numbers		EZ9XPH112	EZ9XPH157	EZ9XPH212	EZ9XPH257	EZ9XPH312	EZ9XPH357	-	-	-	-	-	-

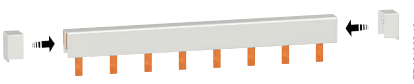


## Installation



## Accessories

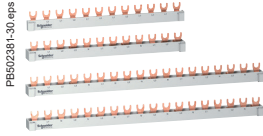
Type	Connectors (4 x 35 mm <sup>2</sup> )	Side plates (2 phases)	Side plates (3 phases)	Side plates (4 phases)	Tooth caps
Set of	1	10	10	10	10
Catalog numbers	EZ9XPC04	EZ9XPE210	EZ9XPE310	-	-



# Linergy FH

Horizontal biconnect comb busbar for 18 mm pitch

Device feeders



## IEC 60664-1

### Description

- Distribution and sub-distribution of the electric power supply.
- Fast assembly and disassembly of connected devices.

Comb horizontal bi-connection		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)												
<b>Use</b>													
Power supply: directly on terminal (25 mm <sup>2</sup> rigid or 16 mm <sup>2</sup> flexible) or by connector (35 mm <sup>2</sup> rigid or 25 mm <sup>2</sup> 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	
Catalog 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)													
<b>Use</b>														
Type	NL1L2L3L4 - NL1NL2NL3						NL1NL2NL3							
Number of 18 mm modules	18						18						57	
Set of	1						1						1	
Catalog numbers	R9XFH518G						R9XFH518						R9XFH557	

Installation	

Accessories						
Number of poles	1P	2P	3P	4P		
	<b>Side plates</b>			<b>Tooth caps</b>		
Set of	10			20		
Catalog numbers	R9XE110	R9XE210	R9XE310	R9XE410	R9XT20	

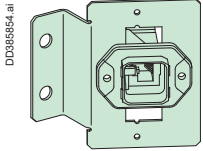
# Linergy TA

## Auxiliary connections

### Terminal blocks and lines

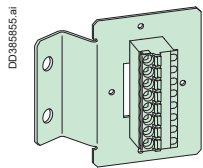
#### Connectors

For plug & play interconnection between electrical switchboard for control and communication wires.



#### RJ45 female-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
<b>Catalog number</b>	<b>LGY4230</b>	



#### 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 <sup>2</sup>	
<b>Catalog number</b>	<b>LGY4231</b>	

#### USB and RJ45 ports

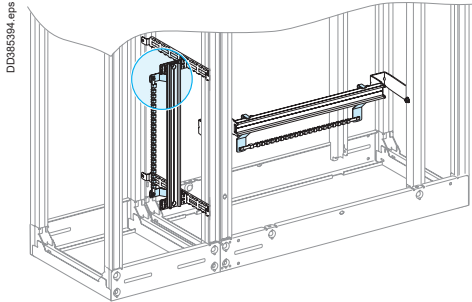


Catalog number	XB5PUSB3SP1	XB5PUSB3SP2	XB5PRJ45SP1	XB5PRJ45SP2
Description	Panel-mounted USB and RJ45 ports in 22.5 mm hole with notch			
Interface type	USB interface, jack type A		Ethernet interface, RJ45 jack	
Connection type	USB port 3.0 A-A		RJ45 port Cat. 6	
Others characteristics	IP20 IP65, IP67, IP69K with protection cover			



Linergy TB  
Earth bars

Terminal blocks and lines

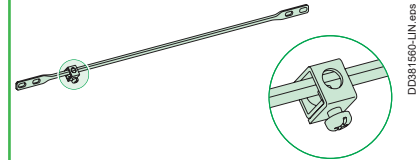


Description

This range of earth bars is installed:

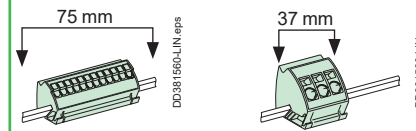
- In the duct which can constitute a dedicated area, completely separate from the equipment.
- Or in the switchgear compartment, at the top or the bottom.

Fast-connecting earth bar



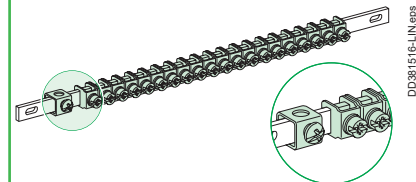
	<b>Copper earth bar</b>
Cross-section (mm)	12 x 3
Effective length (mm)	330
Total length (mm)	450
Composition	Copper bar with 1 terminal 16 to 35 mm <sup>2</sup>
Rated short time withstand current (Icw)	9 kA rms/0.5 s
<b>Catalog numbers</b>	<b>LVS04201</b>

Accessories



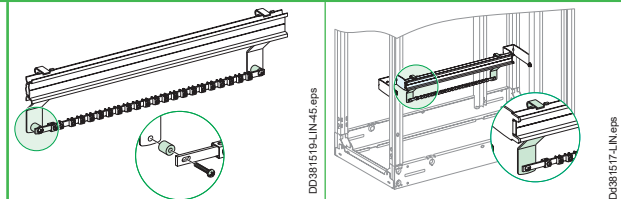
	<b>Earth blocks with terminals</b>	
	Spring-fixing (clip onto the earth bar)	
Total connection capacity	12 x 4 mm <sup>2</sup>	3 x 16 mm <sup>2</sup>
Composition	4 earth blocks	4 earth blocks
Rated short time withstand current (Icw)	1 kA rms/0.5 s	4 kA rms/0.5 s
<b>Catalog numbers</b>	<b>LVS04214</b>	<b>LVS04215</b>

Accessories



	<b>Copper earth bar with jumper</b>	
Total connection capacity	40 x 2.5 to 16 mm <sup>2</sup>	20 x 2.5 to 16 mm <sup>2</sup>
Cross-section (mm)	12 x 3	12 x 3
Length (mm)	450	200
Composition	40 jumpers and a terminal (16 to 35 mm <sup>2</sup> )	20 jumpers and a terminal (16 to 35 mm <sup>2</sup> )
Rated short time withstand current (Icw)	9 kA rms/0.5 s	9 kA rms/0.5 s
<b>Catalog numbers</b>	<b>LVS04200</b>	<b>LVS04202</b>

Accessories



	<b>Neutral bar</b>	<b>Earth bar</b>
	Converts an earth bar to a neutral bar	—
Composition	2 insulating spacers	2 supports for earth bar on modular rail
<b>Catalog numbers</b>	<b>LVS04210</b>	<b>LVS04205</b>

Linergy TB  
PE conductors

Terminal blocks and lines

PE conductors									
	<b>Vertical PE conductor with Linergy LGY profile (W = 1670 mm)</b>			<b>Vertical PE conductor with Linergy BS busbar (W = 1675 mm)</b>			<b>Horizontal PE conductor with Linergy BS busbar</b>		
Rated short-time current (Isc)	≤ 65	> 65... ≤ 80	= 100	≤ 40	< 85	≤ 100	≤ 40	< 85	≤ 100
Permissible current (A)	630	800	1250	400	600	800	400	600	800
Bar size (mm)	–	–	–	25 x 5	50 x 5	60 x 5	25 x 5	50 x 5	60 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)	Drilled flat bar Ø10.6 mm (two 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)	Drilled flat bar Ø10.6 mm (two 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)
Catalog numbers	LVS04502	LVS04503	LVS04505	LVS04512	LVS04515	LVS04516	LVS04512	LVS04515	LVS04516



Support selection			
Composition	Three supports for one vertical PE (supplied with PE marking) to secure to the framework.	Three supports for one vertical PE (supplied with PE marking) to secure to the framework.	Two supports for one horizontal PE.
Catalog numbers	LVS04657	LVS04657	LVS04667

Connection between PE conductors	
Composition	<b>Connection plates for horizontal/vertical PE bars</b> 2 copper angle brackets
Catalog numbers	LVS04672
	<b>Linergy connection hardware</b> 20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars
Catalog numbers	LVS04766

PEN conductors		
	<b>Linergy TB PEN installation kit with LGY vertical profile</b>	<b>1600 A connection 10 mm horizontal busbar with Linergy LGY profile</b>
Catalog numbers	LVS04656 <sup>(1)</sup>	LVS04636
		<b>Linergy LGE vertical connection 1600 A</b>
Catalog numbers		LVS04602

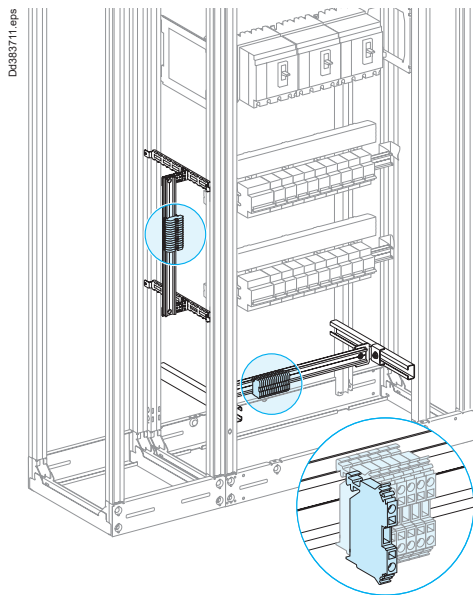
(1) For LGE HBB, additional fish plate need to be manufactured as per the drawing supplied by Schneider Electric.

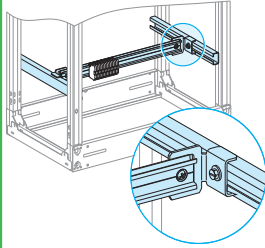
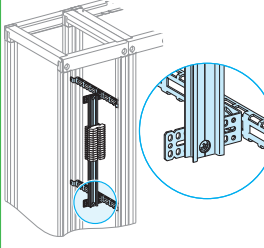
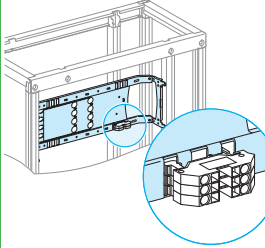
# Linergy TB terminal block support

## Secondary distribution

### Introduction

In PrismaSeT 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)	<b>LVS03402</b>	–	–
2 modular rails W = 1600 mm	<b>LVS04226</b>	<b>LVS04226</b>	–
2 universal angle brackets	<b>LVS03581</b>	<b>LVS03581</b>	–
Set of two lateral cross-members W = 400 mm	<b>LVS03584</b>	–	–
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

	4	6	10	16
Max. cable CSA (mm <sup>2</sup> )	4	6	10	16
Width of terminal block (mm)	6	8	10	12

### Height required in switchboard

	4	6	10	16
Max. cable CSA (mm <sup>2</sup> )	4	6	10	16
No. of vertical modules	3	3	5	6
Plain front plate	<b>LVS03803</b>	<b>LVS03803</b>	<b>LVS03805</b>	<b>LVS03806</b>

# Designing connection ≤ 630 A

## Auxiliary connections

### Electrical characteristics

Device	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
Rated current of a circuit I <sub>nc</sub> (A)												
<b>Linergy DX</b>												
Quick distribution block Linergy DX 4P 125A	134	125	129	120	125	116	120	111	116	106	111	■
Quick distribution block Linergy DX 4P 160A	171	160	166	154	160	148	154	142	148	135	142	■
Quick distribution block Linergy DX 1P 1P 160A	171	160	166	154	160	148	154	142	148	155	142	■
<b>Linergy DP</b>												
Quick distribution block Linergy DP 3P-4P 160A	160	160	155	155	150	150	145	145	140	140	135	■
Quick distribution block Linergy DP 3P-4P 250A	267	250	259	241	250	231	241	222	231	211	222	■
<b>Linergy FM</b>												
Quick device feeders Linergy FM 4P 63A	67	63	65	61	63	58	61	56	58	53	56	■
Quick device feeders Linergy FM 4P 80A	86	80	83	77	80	74	77	71	74	68	71	■
Quick device feeders Linergy FM 4P 160A	171	160	166	154	160	148	154	142	148	135	142	■
Quick device feeders Linergy FM 2P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 3P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 4P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 4P 200A (36 modules)	214	200	207	193	200	185	193	177	185	169	177	■




■ Check the concordance between Linergy derating value and upstream protection device derating value.



Lineray TR  
Terminal blocks

Secondary distribution



			Connection technology			
Type of terminal block	Cross section area	Color	Screw tech 	Spring tech 	Push-in tech 	Miniature screw for 15 mm DIN rail
Passthrough	2.5 mm <sup>2</sup> (2 pts)	Grey	NSYTRV22	NSYTRR22	NSYTRP22	NSYTRV22M
		Blue	NSYTRV22BL	NSYTRR22BL	NSYTRP22BL	NSYTRV22MBL
		Orange	NSYTRV22AR	-	NSYTRP22AR	-
	2.5 mm <sup>2</sup> (3 pts)	Grey	-	NSYTRR23	NSYTRP23	-
		Blue	-	NSYTRR23BL	NSYTRP23BL	-
		Orange	-	-	NSYTRP23AR	-
	2.5 mm <sup>2</sup> (4 pts)	Grey	-	NSYTRR24	NSYTRP24	-
		Blue	-	NSYTRR24BL	NSYTRP24BL	-
	2.5 mm <sup>2</sup> (4 pts, 2 levels)	Grey	NSYTRV24D	NSYTRR24D	NSYTRP24D	-
		Blue	NSYTRV24DBL	-	NSYTRP24DBL	-
	2.5 mm <sup>2</sup> (6 pts, 3 levels)	Grey	NSYTRV26T	NSYTRR26T	NSYTRP26T	-
		Blue	-	-	-	-
	4 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42	NSYTRR42	NSYTRP42	NSYTRV42M
		Blue	NSYTRV42BL	NSYTRR42BL	NSYTRP42BL	NSYTRV42MBL
		Orange	NSYTRV42AR	-	-	-
	4 mm <sup>2</sup> (3 pts)	Grey	NSYTRV43	NSYTRR43	NSYTRP43	-
		Blue	NSYTRV43BL	-	NSYTRP43BL	-
	4 mm <sup>2</sup> (4 pts)	Grey	NSYTRV44	NSYTRR44	NSYTRP44	-
		Blue	NSYTRV44BL	-	NSYTRP44BL	-
	4 mm <sup>2</sup> (4 pts, 2 levels)	Grey	NSYTRV44D	NSYTRR44D	NSYTRP44D	-
		Blue	NSYTRV44DBL	NSYTRR44DBL	NSYTRP44DBL	-
	6 mm <sup>2</sup> (2 pts)	Grey	NSYTRV62	NSYTRR62	NSYTRP62	-
		Blue	NSYTRV62BL	NSYTRR62BL	NSYTRP62BL	-
	6 mm <sup>2</sup> (3 pts)	Grey	-	-	NSYTRP63	-
Blue		-	-	-	-	
10 mm <sup>2</sup> (2 pts)	Grey	NSYTRV102	NSYTRR102	NSYTRP102	-	
	Blue	NSYTRV102BL	NSYTRR102BL	NSYTRP102BL	-	
16 mm <sup>2</sup> (2 pts)	Grey	NSYTRV162	NSYTRR162	NSYTRP162	-	
	Blue	NSYTRV162BL	NSYTRR162BL	NSYTRP162BL	-	
Earth protection	2.5 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV22PE	NSYTRR22PE	NSYTRP22PE	NSYTRV22MPE
	2.5 mm <sup>2</sup> (3 pts)	Green/Yellow	-	NSYTRR23PE	NSYTRP23PE	-
	2.5 mm <sup>2</sup> (4 pts)	Green/Yellow	-	NSYTRR24PE	NSYTRP24PE	-
	4 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV42PE	NSYTRR42PE	NSYTRP42PE	NSYTRV42MPE
	4 mm <sup>2</sup> (3 pts)	Green/Yellow	NSYTRV43PE	-	NSYTRP43PE	-
	4 mm <sup>2</sup> (4 pts)	Green/Yellow	NSYTRV44PE	NSYTRR44PE	NSYTRP44PE	-
	4 mm <sup>2</sup> (4 pts, 2 levels)	Green/Yellow	-	-	NSYTRP44DPE	-
	6 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV62PE	NSYTRR62PE	NSYTRP62PE	-
	10 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV102PE	NSYTRR102PE	NSYTRP102PE	-
	16 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV162PE	NSYTRR162PE	NSYTRP162PE	-
Knife Disconnect	2.5 mm <sup>2</sup> (2 pts)	Grey	NSYTRV22SC	NSYTRR22SC	NSYTRP22SC	-
		Orange	NSYTRV22ST <sup>(1)</sup>	-	-	-
	2.5 mm <sup>2</sup> (3 pts)	Grey	-	NSYTRR23SC	NSYTRP23SC	-
		Orange	-	-	-	-
	2.5 mm <sup>2</sup> (2 levels)	Grey	-	-	-	-
Fuse Disconnect	4 mm <sup>2</sup> (2 pts)	Black	NSYTRV42SF5	-	-	-
	5 x 20 mm fuse	Black (12 V)	NSYTRV42SF5LD <sup>(2)</sup>	-	-	-
		Black (230 V)	NSYTRV42SF5LA <sup>(2)</sup>	-	-	-
Basic Disconnect <sup>(3)</sup>	4 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42TB	-	NSYTRP42TB	-
	2.5 mm <sup>2</sup> (2 pts)	Grey	-	-	NSYTRP23TB	-
Measuring transducer	6 mm <sup>2</sup> (2 pts) Disconnect	Grey	NSYTRV62TTD	-	-	-
		Grey	NSYTRV62TT	-	-	-
	6 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV62TTPE	-	-	-

\* Grey terminal with flange.

(1) Grey disconnect terminal with 2 test points.

(2) With light indicator.

(3) Fuse or component carrier not supplied.

Linergy TR  
Terminal blocks

Secondary distribution



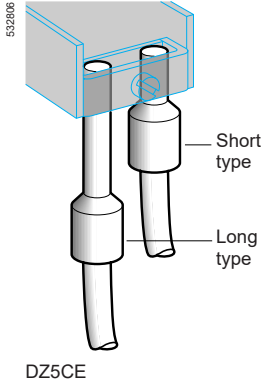
Accessories					
	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters
	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22	NSYTRABF510
	NSYTRAC22BL	-	-	NSYTRAL23	NSYTRABF520
	-	-	-	NSYTRAL24	NSYTRABF530
	NSYTRAC23	NSYTRACR23	NSYTRACR23	NSYTRAL25	NSYTRABF540
	-	-	-	NSYTRAL210	NSYTRABF550
	-	-	-	NSYTRAL210BL	
	NSYTRAC24	NSYTRACR24	NSYTRACR24	NSYTRAL210GR	
	-	-	-	NSYTRAL220	
	NSYTRACE24	NSYTRACRE24	NSYTRACRE24		
	-	-	-		
	NSYTRACE26	-	NSYTRACPE26		
	-	-	-		
	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42	NSYTRAB610
	NSYTRAC22BL	-	-	NSYTRAL43	NSYTRAB620
	-	-	-	NSYTRAL44	NSYTRAB630
	NSYTRAC23	NSYTRACR43	NSYTRACP43	NSYTRAL45	NSYTRAB640
	-	-	-	NSYTRAL410	NSYTRAB690
	NSYTRAC24	NSYTRACR44	NSYTRACP44	NSYTRAL410BL	NSYTRAB6100
	-	-	-	NSYTRAL410GR	NSYTRAB61100
	NSYTRACE24	NSYTRACRE44	NSYTRACPE44	NSYTRAL420	
	-	-	-		
	NSYTRAC22	NSYTRACR62	NSYTRACP62	NSYTRAL62	
	NSYTRAC22BL	-	-		
	-	-	NSYTRACP63		
	-	-	-		
	NSYTRAC22	NSYTRACR102	NSYTRACP102	NSYTRAL102	
	NSYTRAC22BL	-	-		
	NSYTRAC162	NSYTRACR162	NSYTRACP162	NSYTRAL162	
	-	-	-		
	NSYTRAC22	NSYTRACR22	NSYTRACR22		
	NSYTRAC23	NSYTRACR23	NSYTRACR23		
	NSYTRAC24	NSYTRACR24	NSYTRACR24		
	NSYTRAC22	NSYTRACR42	NSYTRACR42		
	NSYTRAC23	NSYTRACR43	NSYTRACP43		
	NSYTRAC24	NSYTRACR44	NSYTRACP44		
	-	-	NSYTRACPE44		
	NSYTRAC22	NSYTRACR62	NSYTRACP62		
	NSYTRAC22	NSYTRACR102	NSYTRACP102		
	NSYTRAC162	NSYTRACR162	NSYTRACP162		
	NSYTRAC23	NSYTRACR23	NSYTRACPK22		
	NSYTRAC23	-	-		
	-	NSYTRACR24	NSYTRACPK23		
	-	-	-		
	-	Included	-		
	Included	-	-		
	Included	-	-		
	Included	-	-		
	Included	Included	NSYTRACR42		
	-	-	NSYTRACPK23		
	NSYTRACT22	-	-		
	NSYTRACT22	-	-		
	NSYTRACT22	-	-		



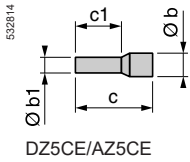
# Linergy cable ends

## Mounting and cabling accessories

Conforming to standard NF C 63-023 or DIN 46228-4



DZ5CE



DZ5CE/AZ5CE



AZ5CE●●●

Single conductor cable ends (Packed in individual bags or "strings" of bags)											
Conductor c.s.a.		Type	Dimensions				Sold in lots of	Unit reference NF C 63-023		Unit reference DIN 46228-4	
mm <sup>2</sup>	AWG		Ø b	Ø b1	c	c1		Reference	color	Reference	color
0.25	26	Short	2.3	1.1	10	6	10 x 100	DZ5CE002L6	Yellow		
		Medium	2.3	1.1	12	8	10 x 100	DZ5CE002			
0.34	24	Short	2.5	1.1	10	6	10 x 100	DZ5CE003L6	Green		
		Medium	2.5	1.1	12	8	10 x 100	DZ5CE003			
0.5	22	Short	3.1	1.3	12	6	10 x 100	DZ5CE005L6 <sup>(1)</sup>	White	-	White
		Medium	3.1	1.3	14	8	10 x 100	DZ5CE005 <sup>(1)</sup>			
		-	-	-	-	-	-	-			
0.75	20	Short	3.3	1.5	12	6	10 x 100	DZ5CE007L6 <sup>(1)</sup>	Blue	-	Grey
		Medium	3.3	1.5	14	8	10 x 100	DZ5CE007 <sup>(1)</sup>			
1	18	Short	3.5	1.7	12	6	10 x 100	DZ5CE010L6 <sup>(1)</sup>	Red	-	Red
		Medium	3.5	1.7	14	8	10 x 100	DZ5CE010 <sup>(1)</sup>			
		Long	3.5	1.7	18	12	10 x 100	DZ5CE010L12 <sup>(1)</sup>			
1.5	16	Short	4	2	12	6	10 x 100	DZ5CE015L6 <sup>(1)</sup>	Black	-	Black
		Medium	4	2	14	8	10 x 100	DZ5CE015 <sup>(1)</sup>			
		Long	4	2	24	18	10 x 100	DZ5CE0153 <sup>(1)</sup>			
2	14	Medium	4.2	2.2	14	8	10 x 100	DZ5CE020	Yellow	-	
2.5	14	Medium	4.7	2.5	14	8	10 x 100	DZ5CE025 <sup>(1)</sup>	Grey	-	Blue
		Long	4.7	2.5	24	18	10 x 100	DZ5CE0253 <sup>(1)</sup>			
4	12	Medium	5.4	3.2	17	10	10 x 100	DZ5CE042 <sup>(1)</sup>	Orange	-	Grey
		Long	5.4	3.2	26	18	10 x 100	DZ5CE043 <sup>(1)</sup>			
6	10	Medium	6.9	3.9	20	12	1 x 100	DZ5CE062 <sup>(1)</sup>	Green	-	Yellow
		Long	6.9	3.9	26	18	1 x 100	DZ5CE063 <sup>(1)</sup>			
10	8	Medium	8.4	4.9	22	12	1 x 100	DZ5CE102 <sup>(1)</sup>	Brown	-	Red
		Long	8.4	4.9	28	18	1 x 100	DZ5CE103 <sup>(1)</sup>			
16	6	Medium	9.6	6.2	24	12	1 x 100	DZ5CE162 <sup>(1)</sup>	White	-	Blue
		Long	9.6	6.2	28	18	1 x 100	DZ5CE163 <sup>(1)</sup>			
25	4	Medium	12	7.7	30	18	1 x 50	DZ5CE252 <sup>(1)</sup>	Black	-	
		Long	12	7.7	36	22	1 x 50	DZ5CE253 <sup>(1)</sup>			
35	2	Medium	13.5	8.7	30	16	1 x 50	DZ5CE352 <sup>(1)</sup>	Red	-	Red
		Long	13.5	8.7	39	25	1 x 50	DZ5CE353 <sup>(1)</sup>			
50	0	Medium	16	11	36	20	1 x 50	DZ5CE502 <sup>(1)</sup>	Blue	-	Blue

Single conductor cable ends (Packed in dispenser pack)											
0.5	22	Medium	3.1	1.3	14	8	5 x 200	AZ5CE005 <sup>(1)</sup>	White	AZ5CE005D <sup>(1)</sup>	White
0.75	20	Medium	3.3	1.5	14	8	5 x 200	AZ5CE007 <sup>(1)</sup>	Blue	AZ5CE007D <sup>(1)</sup>	Grey
1	18	Medium	3.5	1.7	14	8	5 x 200	AZ5CE010 <sup>(1)</sup>	Red	AZ5CE010D <sup>(1)</sup>	Red
1.5	16	Medium	4	2	14	8	5 x 200	AZ5CE015 <sup>(1)</sup>	Black	AZ5CE015D <sup>(1)</sup>	Black
2.5	14	Medium	4.7	2.5	14	8	5 x 200	AZ5CE025 <sup>(1)</sup>	Grey	AZ5CE025D <sup>(1)</sup>	Blue

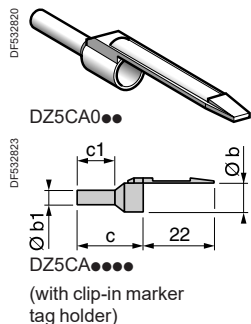
Single conductor cable ends (Strips of 50 packed in bag)											
0.5	22	Medium	3.1	1.3	14	8	10 x 50	DZ5CEB005 <sup>(1)</sup>	White	DZ5CEB005D <sup>(1)</sup>	White
0.75	20	Medium	3.3	1.5	14	8	10 x 50	DZ5CEB007 <sup>(1)</sup>	Blue	DZ5CEB007D <sup>(1)</sup>	Grey
1	18	Medium	3.5	1.7	14	8	10 x 50	DZ5CEB010 <sup>(1)</sup>	Red	DZ5CEB010D <sup>(1)</sup>	Red
1.5	16	Medium	4	2	14	8	10 x 50	DZ5CEB015 <sup>(1)</sup>	Black	DZ5CEB015D <sup>(1)</sup>	Black
2.5	14	Medium	4.7	2.5	14	8	10 x 50	DZ5CEB025 <sup>(1)</sup>	Grey	DZ5CEB025D <sup>(1)</sup>	Blue

(1) UL certified products.

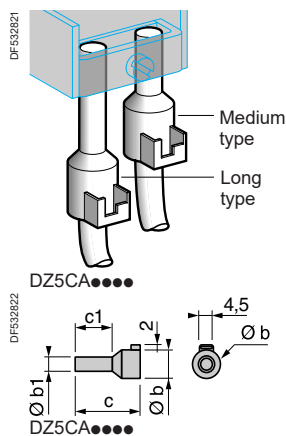
# Linergy cable ends

## Mounting and cabling accessories

Conforming to standard NF C 63-023 or DIN 46228-4



Single conductor markable cable ends (Packed in "strings" of bags)											
Conductor c.s.a.		Type	Dimensions				Sold in lots of	Unit reference NF C 63-023		Unit reference DIN 46228-4	
mm <sup>2</sup>	AWG		Ø b	Ø b1	c	c1		Reference	color	Reference	color
0.25	26	Medium	2.3	1.1	12	8	10 x 100	DZ5CA002	Yellow		
0.34	24	Medium	2.5	1.1	12	8	10 x 100	DZ5CA003	Green		
0.5	22	Medium	3.1	1.3	14	8	10 x 100	DZ5CA005 <sup>(1)</sup>	White	DZ5CA005D <sup>(1)</sup>	White
0.75	20	Medium	3.3	1.5	14	8	10 x 100	DZ5CA007 <sup>(1)</sup>	Blue	DZ5CA007D <sup>(1)</sup>	Grey
1	18	Medium	3.5	1.7	14	8	10 x 100	DZ5CA010 <sup>(1)</sup>	Red	DZ5CA010D <sup>(1)</sup>	Red
1.5	16	Medium	4	2	14	8	10 x 100	DZ5CA015 <sup>(1)</sup>	Black	DZ5CA015D <sup>(1)</sup>	Black
2.5	14	Medium	4.7	2.5	14	8	10 x 100	DZ5CA025 <sup>(1)</sup>	Grey	DZ5CA025D <sup>(1)</sup>	Blue



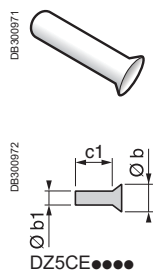
Single conductor cable ends with facility for clip-in marker tag holder											
4	12	Medium	5.4	3.2	20	12	10 x 100	DZ5CA042 <sup>(1)</sup>	Orange	DZ5CA042D <sup>(1)</sup>	Grey
		Long	5.4	3.2	26	18	10 x 100	DZ5CA043 <sup>(1)</sup>		-	
6	10	Medium	6.9	3.9	20	12	1 x 100	DZ5CA062	Green	DZ5CA062D	Yellow
		Long	6.9	3.9	26	18	1 x 100	DZ5CA063		-	
10	8	Medium	8.4	4.9	22	12	1 x 100	DZ5CA102	Brown	DZ5CA102D	Red
		Long	8.4	4.9	28	18	1 x 100	DZ5CA103		-	
16	6	Medium	9.6	6.2	24	12	1 x 100	DZ5CA162	White	DZ5CA162D	Blue
		Long	9.6	6.2	28	18	1 x 100	DZ5CA163		-	
25	4	Medium	12	7.7	30	18	1 x 100	DZ5CA253	Black	DZ5CA253D	Yellow
35	2	Medium	13.5	8.7	30	16	1 x 20	DZ5CA352	Red	DZ5CA352D	Red
		Long	13.5	8.7	39	25	1 x 20	DZ5CA353		-	
50	0	Medium	16	11	36	20	1 x 20	DZ5CA502	Blue	DZ5CA502D	Blue
		Long	16	11	40	25	1 x 20	DZ5CA503		-	

Twin conductor cable ends (in dispenser pack)											
2 x 0.75	20	Medium	2.8x5	2	15	8	5 x 100	AZ5DE007 <sup>(2)</sup>	Blue	AZ5DE007D <sup>(1)</sup>	Grey
2 x 1	18	Medium	3.4x5.4	2.25	15	8	5 x 100	AZ5DE010 <sup>(2)</sup>	Red	AZ5DE010D <sup>(1)</sup>	Red
2 x 1.5	16	Medium	3.6x6.6	2.5	15	8	5 x 100	AZ5DE015 <sup>(2)</sup>	Black	AZ5DE015D <sup>(1)</sup>	Black
2 x 2.5	14	Medium	4.2x7.8	3.2	18.5	10	5 x 50	AZ5DE025 <sup>(2)</sup>	Grey	AZ5DE025D <sup>(1)</sup>	Blue

Twin conductor cable ends (packed in 1 plastic bag)											
2 x 0.5	22	Medium	2.5x4.7	1.7	15	8	1 x 1000	AZ5DE005 <sup>(2)</sup>	White		
2 x 0.75	20	Medium	2.8x5	2	15	8	1 x 1000	AZ5DE0071 <sup>(2)</sup>	Blue		
2 x 1	18	Medium	3.4x5.4	2.25	15	8	1 x 1000	AZ5DE0101 <sup>(2)</sup>	Red		
2 x 1.5	16	Medium	3.6x6.6	2.5	15	8	1 x 1000	AZ5DE0151 <sup>(2)</sup>	Black		
2 x 2.5	14	Medium	4.2x7.8	3.2	18.5	10	1 x 500	AZ5DE0255 <sup>(2)</sup>	Grey		

Single conductor uninsulated cable ends										
Conductor c.s.a.		Type	Dimensions				Sold in lots of	Unit reference DIN 46228-1		
mm <sup>2</sup>	AWG		Ø b	Ø b1	c	c1		Reference		
0.75	20	Medium	2.3	1.2	--	8	10 x 100	DZ5CE007N		
1	18	Medium	2.5	1.4	--	8	10 x 100	DZ5CE010N		
1.5	16	Medium	2.8	1.7	--	8	10 x 100	DZ5CE015N		
2.5	14	Medium	3.4	2.2	--	10	10 x 100	DZ5CE025N		
4	12	Medium	4	2.8	--	12	1 x 100	DZ5CE040		
		Long	4.7	3.5	--	18	1 x 100	DZ5CE060L		
10	8	Medium	5.8	4.5	--	18	1 x 100	DZ5CE100		
		Medium	7.5	5.8	--	18	1 x 100	DZ5CE160		

(1) UL certified products.  
(2) cCSAus certified products.



# Functional Partitioning

## Main distribution

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<b>Forms partitioning</b>	
Presentation	D-118
<b>Partitioning</b>	<b>D-119</b>
<b>Other partitions</b>	<b>D-123</b>

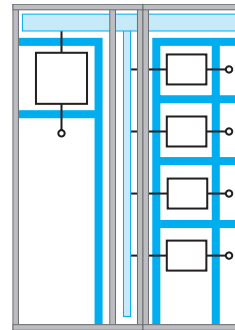
## Forms partitioning

### Presentation

#### What are the forms?

- The forms are metal partitions or molded material, removable by using tools or keys, which ensure the protection of operators against direct contact with power conductors when working on low voltage switchboards.
- They also protect internal elements of the switchboard against external aggressions (dust, pests, water ...).
- These forms are graduated from 1 to 4, with indices "a" or "b". Their use contributes to the level of service continuity required by the user.
- Forms have a cumulative effect (a higher form integrates the characteristics of the forms that precede it).
- The choice of a form is the subject to an agreement between the manufacturer and the user.
- The electrical panel must comply with the degree of protection IP 2X, according to standard IEC 61439-1 & 2.

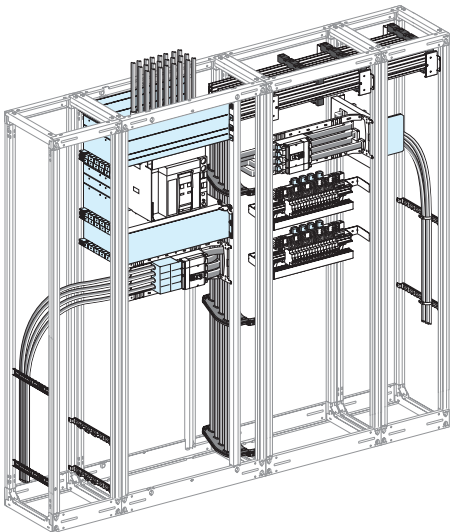
Form 4b



PrismaSeT P Internal Arc Linergy LGYE 66 kA application requires Form 4b.

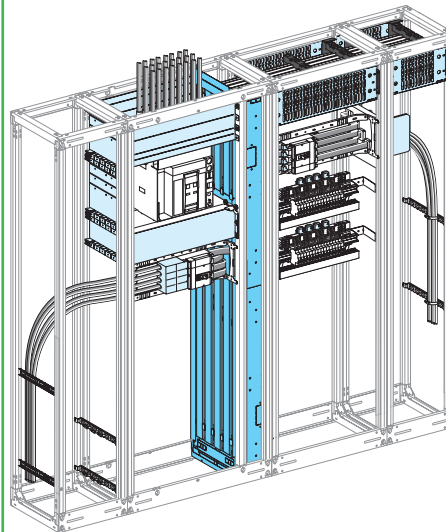
Form 1

No internal separation



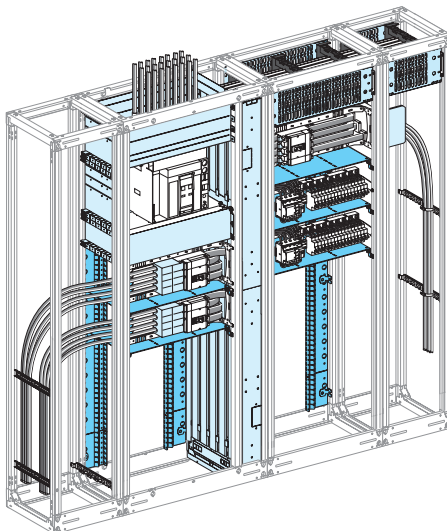
Form 2

Separation between horizontal busbars, vertical busbars, and functional units



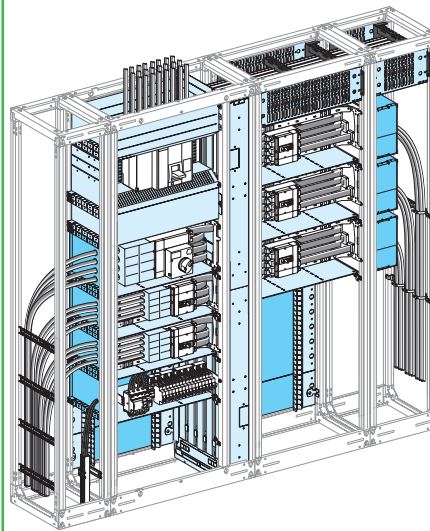
Form 3

Form 2 + separation of functional units from one another



Form 4

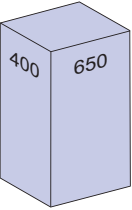
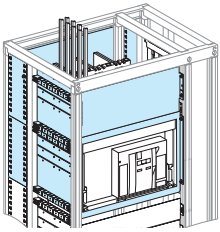
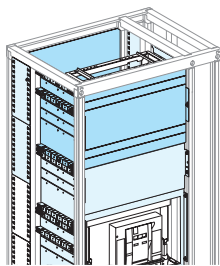
Form 3 + separation of the terminals of the functional units from one another

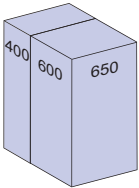
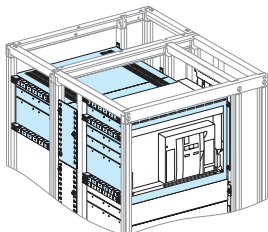
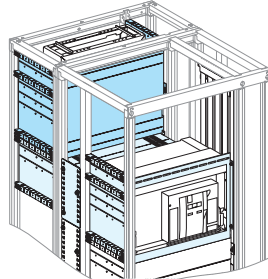


# Partitioning

Covering the supply terminals on the incoming device

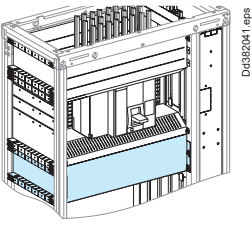
Main distribution

	Front connection with cables	Canalis front connection
 <p>MTZ2 Only</p>	 <p>D61382019.eps</p>	 <p>D61382020.eps</p>
<b>Devices</b>	<b>Withdrawable device</b>	<b>Withdrawable device</b>
	<b>MasterPact</b>	<b>MasterPact</b>
	<b>MTZ2</b>	<b>MTZ2</b>
Cover	<b>LVS04861</b>	<b>LVS04861</b>
Canalis additional cover	-	<b>LVS04871</b>

	Rear connection with cables	Canalis rear connection
 <p>MTZ2 Only</p>	 <p>D61382021.eps</p>	 <p>D61382022.eps</p>
<b>Devices</b>	<b>Withdrawable device</b>	<b>Withdrawable device</b>
	<b>MasterPact</b>	<b>MasterPact</b>
	<b>MTZ2</b>	<b>MTZ2</b>
Cover	<b>LVS04863</b>	<b>LVS04863</b>
Canalis additional cover	-	<b>LVS04871</b>

D

## Covering of the connection between an incoming device and lateral busbars

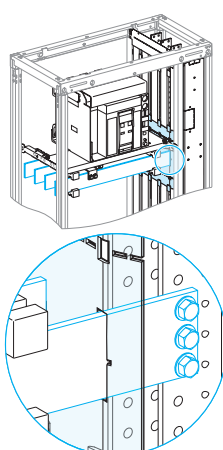
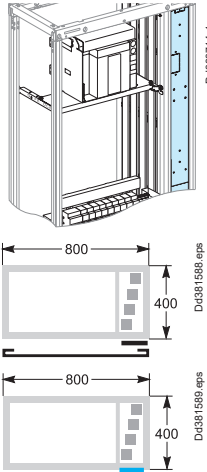
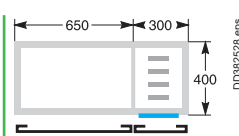
 <p>D61382041.eps</p>	
	<b>MasterPact MTZ2</b>
Cover with copper connection	<b>LVS04926</b>
Additional cover	<b>LVS04927</b>
Cover with Linergy LGYE connection	<b>LVS04925</b>
Additional cover	<b>LVS04928</b>
Form partition depth	<b>600</b>

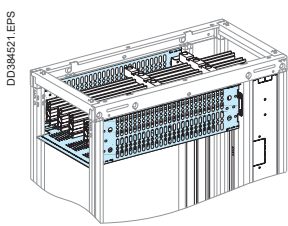
**Note:** Cubicle depth based on the depth of the incoming device.

## 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.

	Restoration kit / Side barrier	Front or rear barrier	
	 <p style="text-align: right; font-size: small;">D0385402.eps</p>	 <p style="text-align: right; font-size: small;">D038714-1.eps</p>	 <p style="text-align: right; font-size: small;">D0382528.eps</p>
		<p>800</p> <p>400</p> <p>800</p> <p>400</p> <p style="font-size: x-small;">D0381588.eps</p> <p style="font-size: x-small;">D0381589.eps</p>	<p>650</p> <p>300</p> <p>400</p> <p style="font-size: x-small;">D0382528.eps</p>
		<b>W = 150 mm</b>	<b>W = 300 mm</b>
<b>Characteristics</b>	<ul style="list-style-type: none"> <li>■ This kit enables passage of the connection between a device &gt; 1600 A (MTZ2, INS-INV) and lateral vertical busbars.</li> <li>■ 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.</li> <li>■ Has to be used with MTZ2 interlocking mounting plate.</li> </ul>	<p>Can be installed in the front and rear of the busbar compartment. Protects against direct contact with the busbars.</p> <ul style="list-style-type: none"> <li>■ For 800 mm cubicles :                             <ul style="list-style-type: none"> <li>□ The door is systematically supplied with a barrier.</li> <li>□ The cover frame is supplied with a wicket door, W = 150 mm, on which devices can be mounted. A front barrier is indispensable.</li> </ul> </li> <li>■ A barrier is required at the rear of the busbar compartment in cubicles that are 600, 800 and 1000 mm deep.</li> </ul>	
<b>Catalog number</b>	<b>LVS04924</b>	<b>LVS04921</b>	<b>LVS04920</b>



### Horizontal partitioning

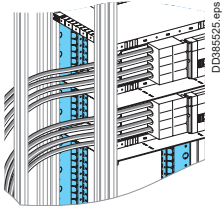
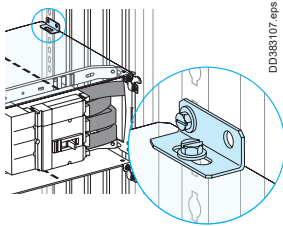
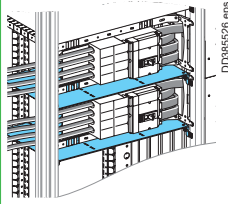
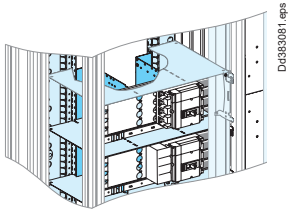
- Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.
- The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.
- The space required for the busbars is not increased.

Linergy LGYE			
		Top position	
In		≤ 2500 A	≥ 3200 A
Nb of module		3	4
<b>D400</b>			
Cover	W = 300	<b>LVS04973</b>	<b>LVS04963</b>
	W = 400	<b>LVS04974</b>	<b>LVS04964</b>
	W650	<b>LVS04976</b>	<b>LVS04966</b>
	W650 + 150	<b>LVS04976</b>	<b>LVS04966</b>
	W800	<b>LVS04978</b>	<b>LVS04968</b>
<b>D600</b>			
Cover	W = 300	<b>LVS04983</b>	<b>LVS04963</b>
	W = 400	<b>LVS04984</b>	<b>LVS04964</b>
	W650	<b>LVS04986</b>	<b>LVS04966</b>
	W650 + 150	<b>LVS04986</b>	<b>LVS04966</b>
	W800	<b>LVS04988</b>	<b>LVS04968</b>

**Note:** When the busbars are at the bottom of the cubicle, gland plates are mandatory > page D-19.

**Note:** To protect horizontal busbars installed at the bottom of the cubicle, the slotted horizontal panel must be replaced by a plain barrier.(LVS04915 or LVS04919) and add a free support LVS04662.

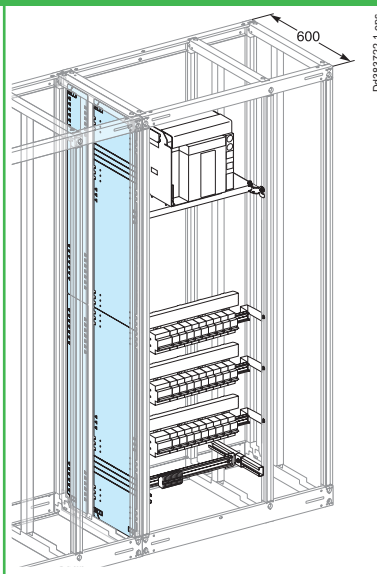
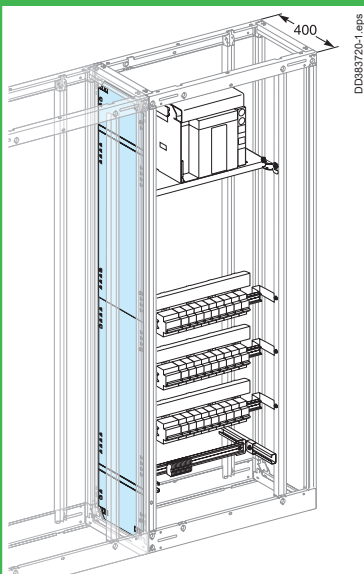
## Main distribution

	Front connection			Rear connection	
					
	<b>Rear support for partitions W = 650 mm</b>	<b>6 universal angle brackets</b>	<b>Horizontal metal partition W = 650 mm</b>	<b>Rear connection</b>	
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)	
				3 to 4 modules	5 to 6 modules
Catalog numbers	<b>LVS04943</b>	<b>LVS03583</b>	<b>LVS04901</b>	<b>LVS04955</b>	<b>LVS04956</b>





### Inter-cubicle partition



**D400**

**D600**

<b>Characteristics</b>	<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>	
<b>Catalog numbers</b>	<b>LVS04911</b>	<b>LVS04911 + LVS04931</b>



# Additional Information

## Contents

## Spare parts

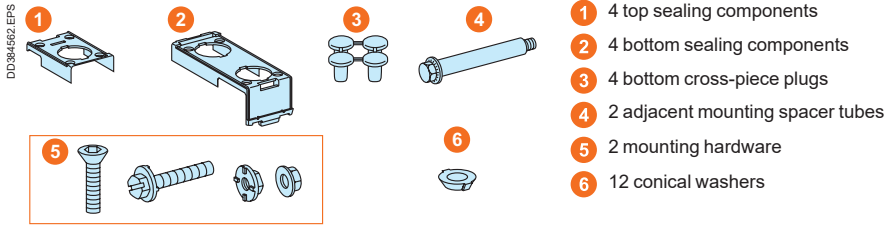
	<b>After-sales accessories</b>	<b>D-126</b>
<hr/>		
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	<b>Designing vertical busbars</b>	
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	Linergy LGYE	D-132
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	Prefabricated connections for MasterPact MTZ1 06-16	D-134
	Prefabricated connections for ComPacT NS630b to NS1000	D-135
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	<b>Designing connections between a device and busbars</b>	
	Dedicated cubicle - W = 400 mm	D-161

D

### Framework accessories

#### Framework accessories

LVS01104



### Front-plate accessories

#### 10 sets of 2 grips quarter turn

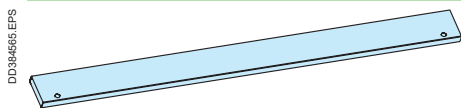
LVS01094



### Accessory

#### Plain wicket door, W = 150 mm

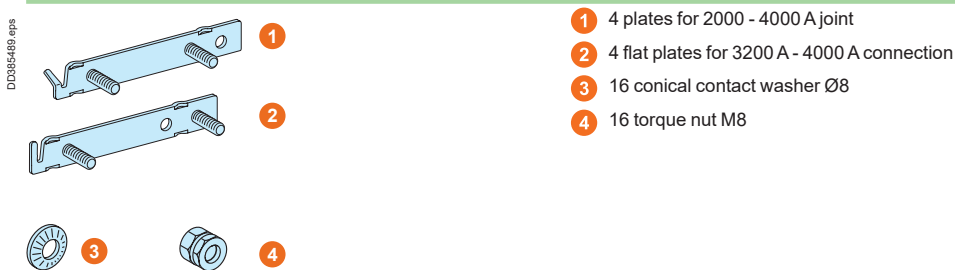
LVS01110



### Linergy LGYE busbar accessories

#### Linergy LGYE connection screwplate kit

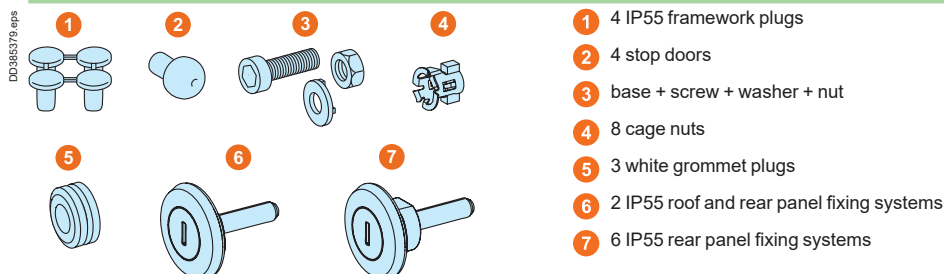
LVS01130



### Rear accessories

#### Accessories IP55

LVS01101

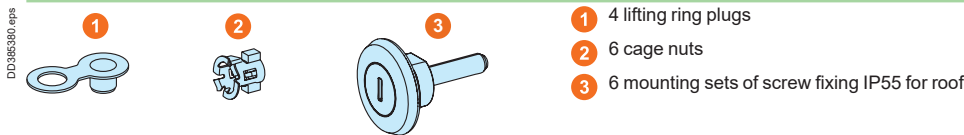


### Spare parts

#### Accessories for IP55 side panel LVS01102

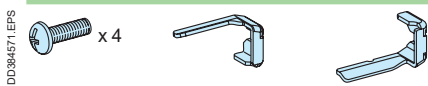


#### Accessories for IP55 roof LVS01103



#### Front plate support frames

##### Front plate support striker kit for LVS08564 - LVS08566 LVS01123



#### Side-by-side combination kit

	PrismaSeT P/Prisma P Beige	PrismaSeT P/PrismaSeT PH
	<p>DD332926 eps</p>	<p>DD383847 eps</p>
Catalog number	LVS01199	LVS01198
Characteristics	<ul style="list-style-type: none"> <li>To add a PrismaSeT P cubicle to an existing Prisma P Beige installation, use the combination kit and a 400 mm wide frame.</li> </ul> <p>DD385279 eps</p>	<ul style="list-style-type: none"> <li>PrismaSeT PH/PrismaSeT P side-by-side combination kit</li> </ul> <p><b>Note:</b> When combining PrismaSeT PH and PrismaSeT P IP55 enclosures, use the IP55 sealing kit for side-by-side combinations (LVS08717) together with the side-by-side combination kit (LVS01198).</p> <p>DD385279 eps</p>

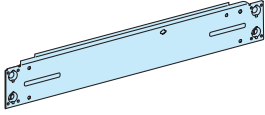


### Spare parts

#### Framework accessories

##### Framework accessories

DD394572.EPS



Frame bottom cross-member W400 to use with LVS08564

**LVS01119** <sup>(1)</sup>

Frame bottom cross-member W650 to use with LVS08566

**LVS01120** <sup>(1)</sup>

Frame bottom cross-member W150+650 to use with LVS08566

**LVS01121** <sup>(1)</sup>

Frame bottom cross-member W650+150 to use with LVS08566

**LVS01122** <sup>(1)</sup>

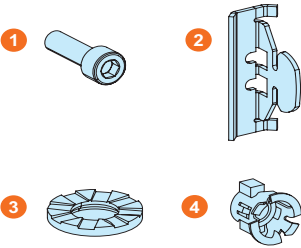
<sup>(1)</sup> Spare parts on stock in RAL 9003 only.

#### Door accessories

##### Reinforced door striker

**LVS01114**

DD435801.EPS



**1** 4 screws MSC HXG SK M6 x 20

**2** 4 door strike stoppers

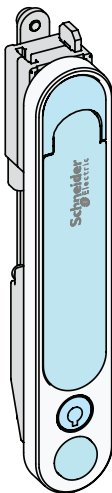
**3** 4 washers

**4** 4 captive nuts for frame

##### PrismaSeT P rotary handle spare parts

**LVS01219**

nm2131101\_1.EPS



**1** Handle housing block

**2** P adapter link part

**3** Screw, pan head, M5x8

**4** The key of 405

**5** 1 crosshead screw

**6** Omega fix part

**7** Driver block

**8** Hex locking screw, M6x10

**9** Self tapping screw, pan head, ST3.5x15



# Designing horizontal busbars

## Linergy LGYE

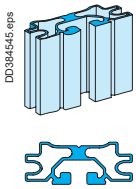
### Electrical characteristics

#### Permissible current and selection of Linergy LGYE busbars Up to 3200 A

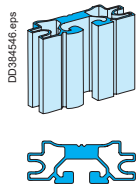
##### Linergy LGYE section

Type of bars	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
<b>Size per phase</b>	<b>IP ≤ 31</b>	<b>IP ≤ 31</b>	<b>IP ≤ 31</b>	<b>IP ≤ 31</b>	<b>IP ≤ 31</b>	<b>IP ≤ 31</b>
Linergy LGYE 630	680	650	630	590	550	520
Linergy LGYE 800	860	830	800	750	700	660
Linergy LGYE 1000	1080	1040	1000	940	880	830
Linergy LGYE 1250	1350	1300	1250	1170	1100	1020
Linergy LGYE 1600	1730	1690	1650	1550	1450	1350
Linergy LGYE 2000	2200	2100	2000	1900	1810	1720
Linergy LGYE 2500	2640	2540	2440	2310	2240	2120
Linergy LGYE 3200	3400	3300	3200	3040	2890	2750

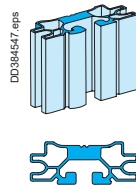
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



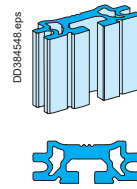
Section 630 A.  
Cat. No. LVS04560.



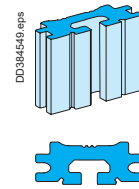
Section 800 A.  
Cat. No. LVS04561.



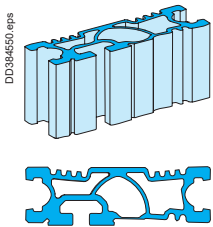
Section 1000 A.  
Cat. No. LVS04562.



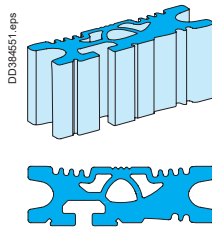
Section 1250 A.  
Cat. No. LVS04563.



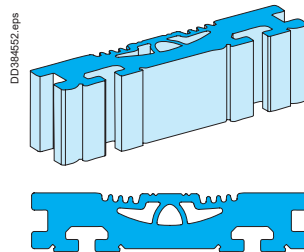
Section 1600 A.  
Cat. No. LVS04564.



Section 2000 A.  
Cat. No. LVS04565.



Section 2500 A.  
Cat. No. LVS04566.



Section 3200 A.  
Cat. No. LVS04567.

# Designing vertical busbars

## Linergy LGY

### Electrical characteristics

#### Permissible current and selection of Linergy LGY busbars

The goal is to optimise busbar size according to the installation and operating criteria.

#### Up to 3200 A

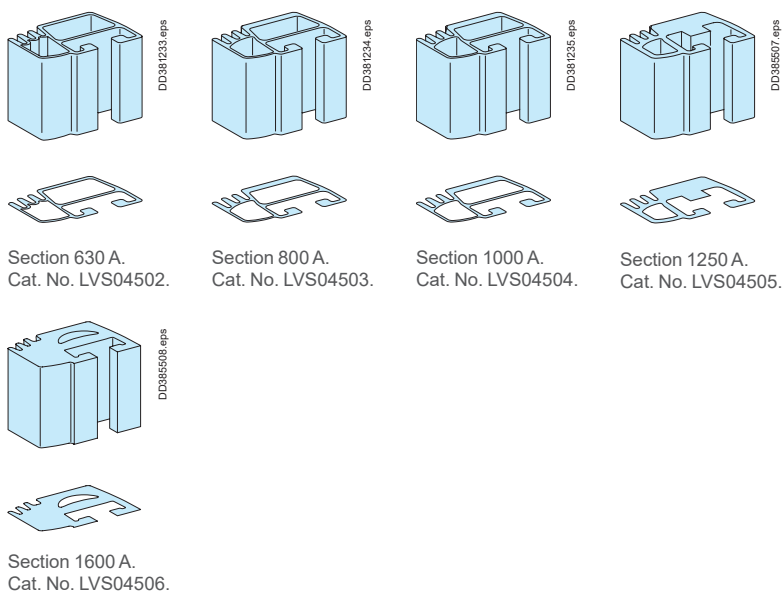
#### Linergy LGY section

Type of bars	Permissible current (A)					
	Ambient temperature around the switchboard					
	25 °C IP ≤ 31	30 °C IP ≤ 31	35 °C IP ≤ 31	40 °C IP ≤ 31	45 °C IP ≤ 31	50 °C IP ≤ 31
Linergy LGY 630	750	710	680	630	590	550
Linergy LGY 800	920	880	840	800	760	720
Linergy LGY 1000	1140	1090	1040	990	950	900
Linergy LGY 1250	1410	1350	1290	1230	1170	1100
Linergy LGY 1600	1800	1720	1650	1580	1480	1390
Linergy LGY 2000 (2 x 1000)	2200	2100	2000	1900	1820	1720
Linergy LGY 2500 (2 x 1250)	2740	2620	2500	2380	2260	2120
Linergy LGY 3200 (2 x 1600)	3480	3340	3200	3060	2920	2780

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Example:

A Linergy 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 PrismaSeT P switchboards.



# Designing vertical busbars

## Linerger LGYE

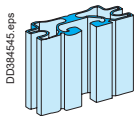
### Electrical characteristics

Up to 3200 A

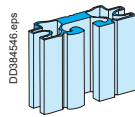
Linerger LGYE section

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
Linerger LGYE 630	680	650	630	590	550	520
Linerger LGYE 800	860	830	800	750	700	660
Linerger LGYE 1000	1080	1040	1000	940	880	830
Linerger LGYE 1250	1350	1300	1250	1170	1100	1020
Linerger LGYE 1600	1730	1690	1650	1550	1450	1350
Linerger LGYE 2000	2200	2100	2000	1900	1810	1720
Linerger LGYE 2500	2640	2540	2440	2310	2240	2120
Linerger LGYE 3200	3400	3300	3200	3040	2890	2750

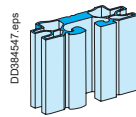
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



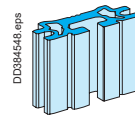
Section 630 A.  
Cat. No. LVS04560.



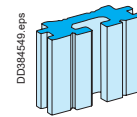
Section 800 A.  
Cat. No. LVS04561.



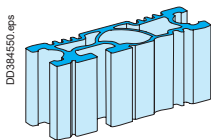
Section 1000 A.  
Cat. No. LVS04562.



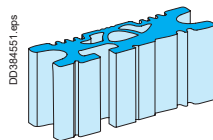
Section 1250 A.  
Cat. No. LVS04563.



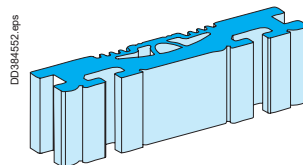
Section 1600 A.  
Cat. No. LVS04564.



Section 2000 A.  
Cat. No. LVS04565.



Section 2500 A.  
Cat. No. LVS04566.



Section 3200 A.  
Cat. No. LVS04567.

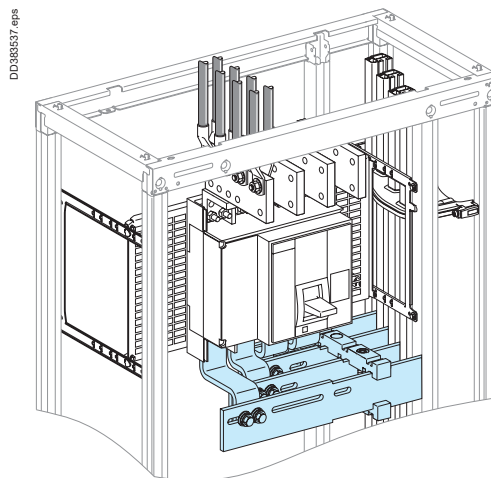
# Designing connections between a device and busbars

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
- Lineray 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
NS630b	3P cat. no. LVS04485	630	630	630	630	630	630
	4P cat. no. LVS04486						
NS800	3P cat. no. LVS04485	800	800	800	800	800	800
	4P cat. no. LVS04486						
NS1000	3P cat. no. LVS04485	1000	1000	1000	1000	1000	1000
	4P cat. no. LVS04486						
NS1250	3P cat. no. LVS04485	1250	1250	1250	1250	1250	1200
	4P cat. no. LVS04486						
NS1600	3P cat. no. LVS04487	1600	1600	1550	1500	1450	1400
	4P cat. no. LVS04488						

■ 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
NS630b	3P cat. no. LVS04477	630	630	630	630	630	630
	4P cat. no. LVS04478						
NS800	3P cat. no. LVS04477	800	800	800	800	800	800
	4P cat. no. LVS04478						
NS1000	3P cat. no. LVS04477	1000	1000	1000	1000	1000	1000
	4P cat. no. LVS04478						
NS1250	3P cat. no. LVS04477	1250	1250	1250	1250	1250	1200
	4P cat. no. LVS04478						
NS1600	3P cat. no. LVS04491	1560	1520	1480	1430	1380	1330
	4P cat. no. LVS04492						

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

# Designing connections between a device and busbars

## Prefabricated connections for MasterPact MTZ1 06-16

### Electrical characteristics

MasterPact MTZ1 06 to 16

MasterPact MTZ1 06 to 16

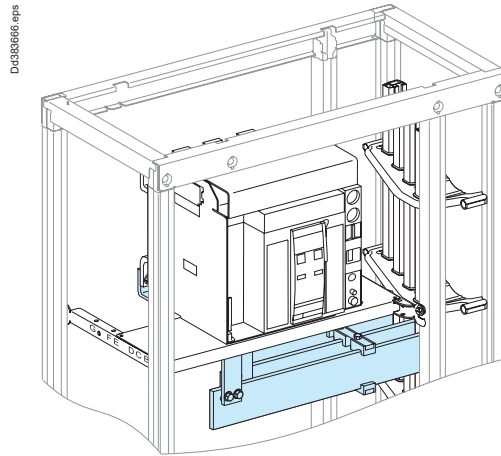
Vertical mounting

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 MTZ1 06/16, 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
MTZ1 06	3P cat. no. <b>LVS04475</b> 4P cat. no. <b>LVS04476</b>	630	630	630	630	630	630
MTZ1 08	3P cat. no. <b>LVS04475</b> 4P cat. no. <b>LVS04476</b>	800	800	800	800	800	800
MTZ1 10	3P cat. no. <b>LVS04475</b> 4P cat. no. <b>LVS04476</b>	1000	1000	1000	1000	1000	1000
MTZ1 12	3P cat. no. <b>LVS04475</b> 4P cat. no. <b>LVS04476</b>	1250	1250	1250	1250	1250	1200
MTZ1 16	3P cat. no. <b>LVS04489</b> 4P cat. no. <b>LVS04490</b>	1600	1600	1570	1520	1470	1420

■ 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
MTZ1 06	3P cat. no. <b>LVS04477</b> 4P cat. no. <b>LVS04478</b>	630	630	630	630	630	630
MTZ1 08	3P cat. no. <b>LVS04477</b> 4P cat. no. <b>LVS04478</b>	800	800	800	800	800	800
MTZ1 10	3P cat. no. <b>LVS04477</b> 4P cat. no. <b>LVS04478</b>	1000	1000	1000	1000	1000	1000
MTZ1 12	3P cat. no. <b>LVS04477</b> 4P cat. no. <b>LVS04478</b>	1250	1250	1250	1250	1250	1200
MTZ1 16	3P cat. no. <b>LVS04491</b> 4P cat. no. <b>LVS04492</b>	1560	1520	1480	1430	1380	1330

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

# Designing connections between a device and busbars

## Prefabricated connections for ComPacT NS630b to NS1000

### Electrical characteristics

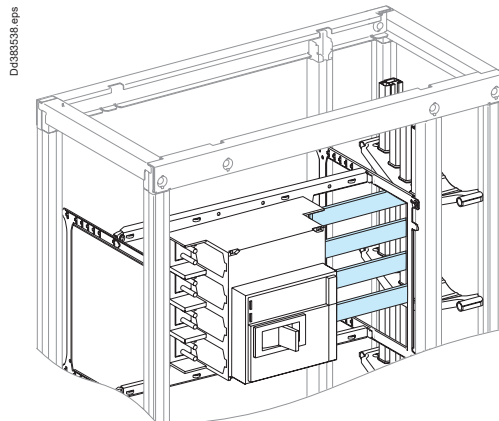
#### ComPacT NS630b to NS1000

##### Horizontal mounting

Front or rear connection

Left or right incoming

Lineray 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
NS630b	3P cat. no. <b>LVS04473</b>	630	630	630	630	630	630
	4P cat. no. <b>LVS04474</b>						
NS800	3P cat. no. <b>LVS04473</b>	800	800	800	800	800	800
	4P cat. no. <b>LVS04474</b>						
NS1000	3P cat. no. <b>LVS04473</b>	1000	1000	1000	1000	1000	1000
	4P cat. no. <b>LVS04474</b>						

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.



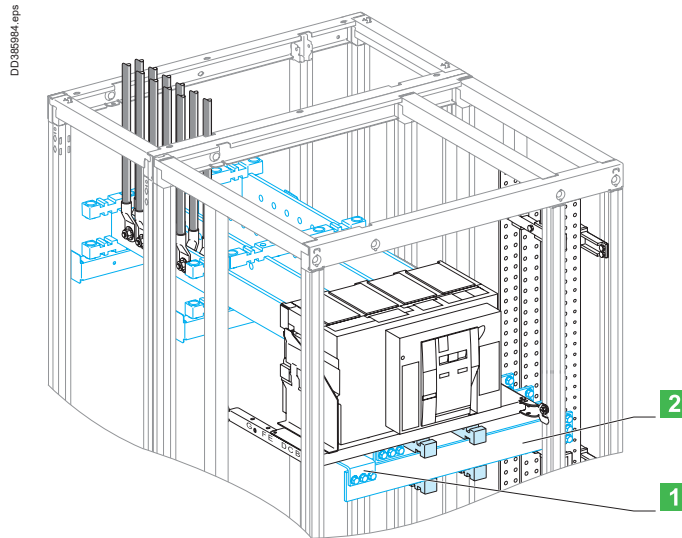
# Designing connections between a device and busbars

Fixed MasterPact 08-16

## Electrical characteristics

MasterPact MTZ2 08 to 16  
 MasterPact MTZ2 08 to 16  
 Fixed

Vertical busbars on the left or right  
 Linergy LGY, LGYE 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 MTZ2 08/16, 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 <sup>(1)</sup>					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	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
	I (A)	1600	1600	1600	1570	1520	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
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	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
	I (A)	1600	1600	1600	1570	1520	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 PrismaSet P switchboards.

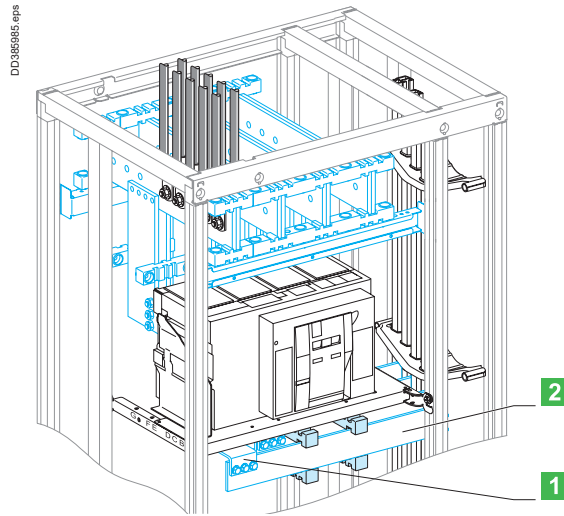
# Designing connections between a device and busbars

Fixed MasterPact 08-32

## Electrical characteristics

MasterPact MTZ2 08 to 32  
MasterPact MTZ2 08 to 32  
Fixed

Vertical busbars on the left or right  
Linergy LGYE, LGY 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 MTZ2 08/32, 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					
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	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
	I (A)	1600	1600	1600	1570	1520	1470
MTZ2 20	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
	I (A)	2000	2000	2000	2000	2000	1950
MTZ2 25	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
	I (A)	2500	2500	2500	2500	2500	2460
MTZ2 32	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
	I (A)	3200	3170	3080	3000	2910	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					
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	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
	I (A)	1600	1600	1600	1570	1520	1470
MTZ2 20	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
	I (A)	2000	2000	2000	2000	2000	1950
MTZ2 25	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
	I (A)	2500	2500	2500	2500	2500	2460
MTZ2 32	Size per phase	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10
	I (A)	3200	3170	3080	3000	2910	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 PrismaSeT P switchboards.

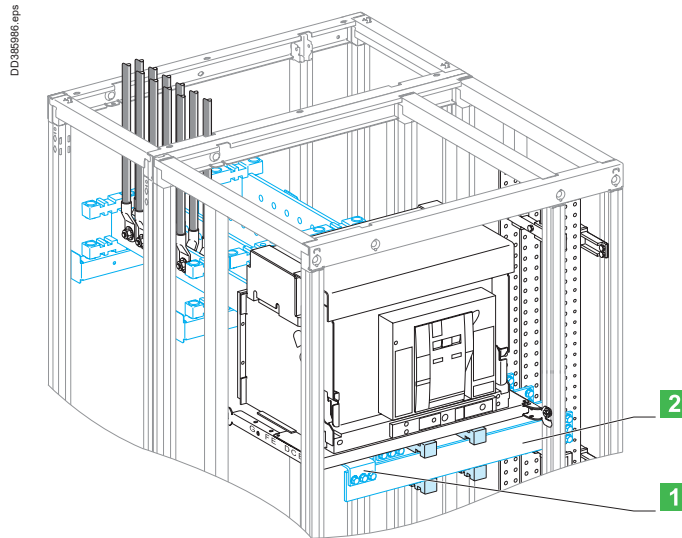
# Designing connections between a device and busbars

Drawout MasterPact 08-16

## Electrical characteristics

MasterPact MTZ2 08 to 16  
MasterPact MTZ2 08 to 16  
Drawout

Vertical busbars on the left or right  
Linergy LGY, LGYE 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 MTZ2 08/16, 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 <sup>(1)</sup>					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1250	1230	1200
MTZ2 16	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
	I (A)	1560	1520	1480	1430	1380	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
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1250	1230	1200
MTZ2 16	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
	I (A)	1560	1520	1480	1430	1380	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 PrismaSet P switchboards.

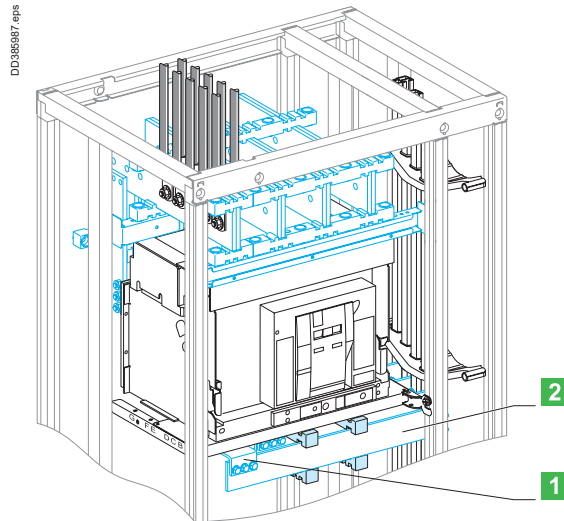
# Designing connections between a device and busbars

Drawout MasterPact 08-32

## Electrical characteristics

### MasterPact MTZ2 08 to 32 MasterPact MTZ2 08 to 32 Drawout

Vertical busbars on the left or right  
Linergy LGYE, LGY 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 MTZ2 08/32, 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
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1210	1180	1140
MTZ2 16	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
	I (A)	1560	1520	1480	1430	1380	1330
MTZ2 20	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
	I (A)	2000	2000	2000	1950	1900	1830
MTZ2 25	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
	I (A)	2470	2410	2350	2280	2210	2140
MTZ2 32	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
	I (A)	2960	2890	2820	2730	2630	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
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1210	1180	1140
MTZ2 16	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
	I (A)	1560	1520	1480	1430	1380	1330
MTZ2 20	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
	I (A)	2000	2000	2000	1950	1900	1830
MTZ2 25	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
	I (A)	2470	2410	2350	2280	2210	2140
MTZ2 32	Size per phase	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10
	I (A)	2960	2890	2820	2730	2630	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 PrismaSeT P switchboards.

# Designing connections between a device and busbars

## Dedicated cubicle

Fixed MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32

MasterPact MTZ2 08 to 32

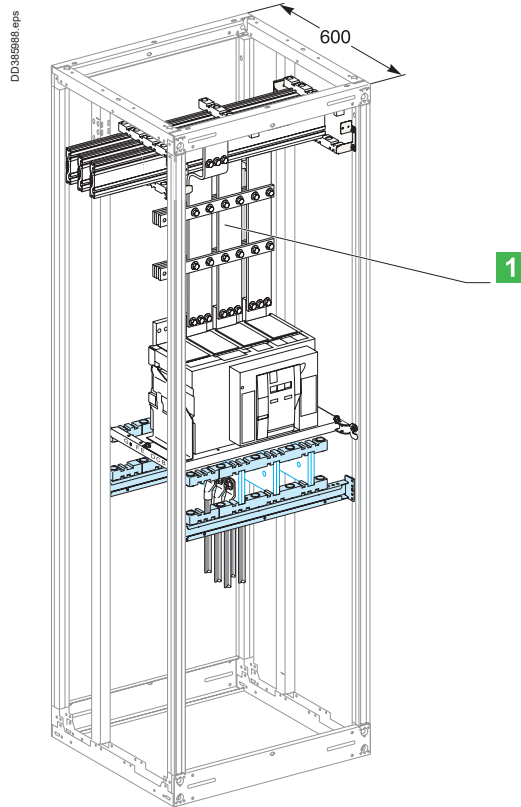
Fixed

Dedicated cubicle

Lineray LGYE busbar

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					
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	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
	I (A)	1600	1600	1600	1570	1520	1470
MTZ2 20	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
	I (A)	2000	2000	2000	2000	2000	1950
MTZ2 25	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
	I (A)	2500	2500	2500	2500	2500	2460
MTZ2 32	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
	I (A)	3200	3170	3080	3000	2910	2820

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

# Designing connections between a device and busbars

## Dedicated cubicle

Drawout MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32

MasterPact MTZ2 08 to 32

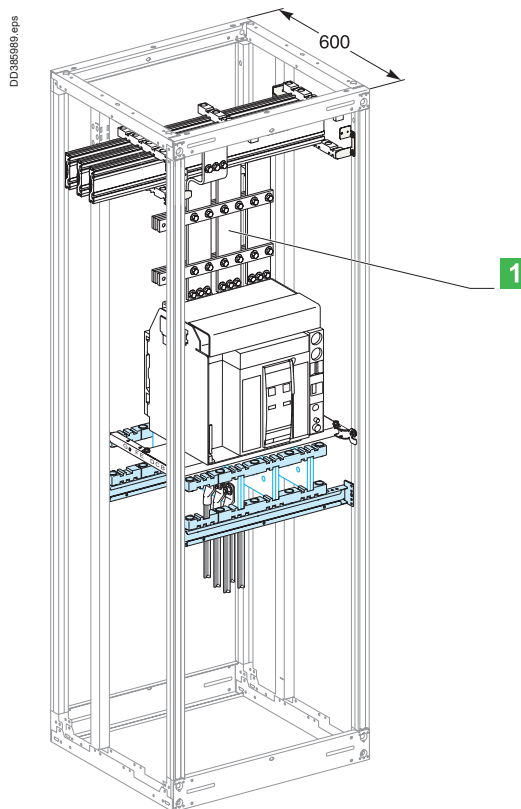
Drawout

Dedicated cubicle

Lineray LGYE busbar

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
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1210	1180	1140
MTZ2 16	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
	I (A)	1560	1520	1480	1430	1380	1330
MTZ2 20	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
	I (A)	2000	2000	2000	1950	1900	1830
MTZ2 25	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
	I (A)	2470	2410	2350	2280	2210	2140
MTZ2 32	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
	I (A)	2960	2890	2820	2730	2630	2530

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

# Designing connections between a device and busbars

Horizontal, fixed

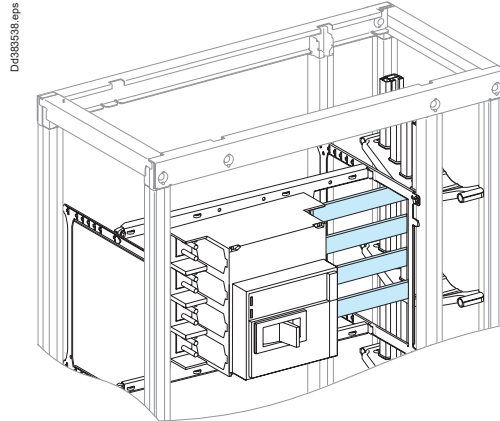
ComPacT NS630b to NS1000

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
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
	I (A)	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
	I (A)	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
	I (A)	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
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
	I (A)	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
	I (A)	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
	I (A)	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 PrismaSeT P switchboards.

## Designing connections $\leq 630$ A

### Device connections

### Electrical characteristics

#### Flexible copper bars with an insulating sheath

#### Switchboards that comply with standard IEC 61439-1 and 2

It is imperative to use the values indicated below that have been validated for the installation of devices in PrismaSeT 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.

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

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## Designing connections $\leq 630$ A

ComPacT circuit breakers NSX100 to NSX630

Insulated flexible copper bars <sup>(1)</sup>

Electrical characteristics

### ComPacT NSX100 to NSX630

Insulated flexible copper bars (withstand temperature = 125 °C)

We recommend insulated flexible copper bars for ComPacT NSX connections from 100 to 630 A

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
<b>IP <math>\leq 31</math></b>							
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 <sub>nc</sub> (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 <sub>nc</sub> (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (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 <sub>nc</sub> (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 <sub>nc</sub> (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (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 <sub>nc</sub> (A)	400	400	400	390	380	370
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 <sub>nc</sub> (A)	630	615	600	585	570	550

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

**(1)** We recommend insulated flexible copper bars instead of copper cables for all NSX100 to NSX630 connection.

## Designing connections $\leq 630$ A

ComPacT circuit breakers NSX100 to NSX250

Copper cable

### Electrical characteristics

#### 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.).

- Switchboard internal temperature 60 °C
- Connections using copper cables

The withstand temperature of insulating material of cable = 105 °C.

The withstand voltage of insulating material of cable  $\geq 1000$  V.

### ComPacT NSX100 to NSX250

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
<b>IP <math>\leq 31</math></b>							
NSX100 TMD-TMG	Size per phase	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
	I <sub>nc</sub> (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>
	I <sub>nc</sub> (A)	125	125	125	122	119	115
NSX160 TMD-TMG	Size per phase	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
	I <sub>nc</sub> (A)	160	160	160	156	152	148
NSX250 TMD-TMG	Size per phase	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
	I <sub>nc</sub> (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
	I <sub>nc</sub> (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
	I <sub>nc</sub> (A)	160	160	160	160	160	160
NSX250 STR	Size per phase	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
	I <sub>nc</sub> (A)	250	245	237	230	225	220

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

**Note:** Schneider Electric recommends connecting ComPacT NSX400/630 circuit breakers with insulated flexible bars or rigid bars > page D-144.

D

Designing connections  $\leq 630$  A

ComPacT circuit breakers NSXm up to 160

Copper cable

Electrical characteristics

## ComPacT NSXm up to 160

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
<b>IP <math>\leq</math> 31</b>							
NSXm100	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	I <sub>nc</sub> (A)	100	100	96	94	90	87
NSXm125	Size per phase (mm <sup>2</sup> )	70	70	70	70	70	70
	I <sub>nc</sub> (A)	125	125	120	117	113	109
NSXm160	Size per phase (mm <sup>2</sup> )	95	95	95	95	95	95
	I <sub>nc</sub> (A)	160	155	149	144	139	133

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

# Designing cable connections

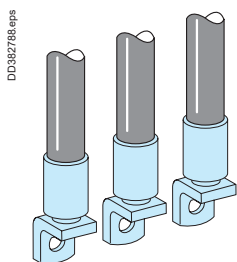
## Tubular lugs

### 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-INS-INV250 supplied via the top or the bottom, cat. no. LVS04066 and LVS04067	150 mm <sup>2</sup>	240 mm <sup>2</sup>	185 mm <sup>2</sup>
In-duct incoming connection block for ComPacT NSX630 supplied via the top or the bottom cat. no. LVS04076	240 mm <sup>2</sup>	300 mm <sup>2</sup>	300 mm <sup>2</sup>



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#### Narrow bimetal lugs

##### Cat. no. selection

Cat. no.	Cable size (mm <sup>2</sup> )	Quantity
<b>Lugs for aluminium cable <sup>(1)</sup></b>		
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 MTZ1 /MTZ2 devices.

	Cable size (mm <sup>2</sup> )	Quantity
<b>Size and number of cables</b>		
Copper lugs	300	12
Bimetal lugs	240	12

(1) Supplied with 2 or 3 interphase barriers.



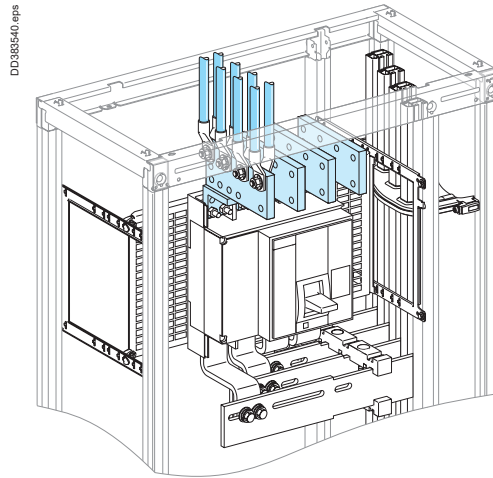
## Designing customer connections

Prefabricated connections for ComPacT NS630b to NS1600

### Electrical characteristics

#### 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
NS630b 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	630	630	630	630	630	630
NS800 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	800	800	800	800	800	800
NS1000 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	1000	1000	1000	1000	1000	1000
NS1250 3P réf. <b>33642 + 33644</b> 4P réf. <b>33643 + 33645</b>	1250	1250	1250	1250	1250	1200
NS1600 3P réf. <b>33642 + 33644</b> 4P réf. <b>33643 + 33645</b>	1600	1600	1550	1500	1450	1400

■ 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
NS630b 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	630	630	630	630	630	630
NS800 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	800	800	800	800	800	800
NS1000 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	1000	1000	1000	1000	1000	1000
NS1250 3P réf. <b>33642 + 33644</b> 4P réf. <b>33643 + 33645</b>	1250	1250	1250	1250	1250	1200
NS1600 3P réf. <b>33642 + 33644</b> 4P réf. <b>33643 + 33645</b>	1560	1520	1480	1430	1380	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 PrismaSeT P switchboards.

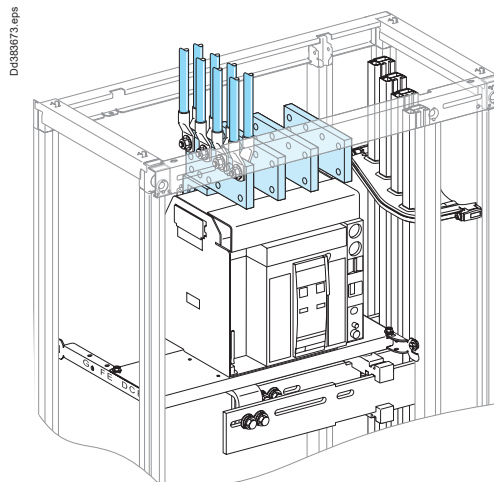
# Designing customer connections

## Prefabricated connections for MasterPact 06-16

### Electrical characteristics

#### MasterPact MTZ1 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 MTZ1 06/16, 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
MTZ1 06 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	630	630	630	630	630	630
MTZ1 08 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	800	800	800	800	800	800
MTZ1 10 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	1000	1000	1000	1000	1000	1000
MTZ1 12 3P réf. <b>33642 + 33644</b> 4P réf. <b>33643 + 33645</b>	1250	1250	1250	1250	1250	1200
MTZ1 16 3P réf. <b>33642 + 33644</b> 4P réf. <b>33643 + 33645</b>	1600	1600	1570	1520	1470	1420

■ 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
MTZ1 06 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	630	630	630	630	630	630
MTZ1 08 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	800	800	800	800	800	800
MTZ1 10 3P cat. no. <b>33642</b> 4P cat. no. <b>33643</b>	1000	1000	1000	1000	1000	1000
MTZ1 12 3P réf. <b>33642 + 33644</b> 4P réf. <b>33643 + 33645</b>	1250	1250	1250	1250	1250	1200
MTZ1 16 3P réf. <b>33642 + 33644</b> 4P réf. <b>33643 + 33645</b>	1560	1520	1480	1430	1380	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 PrismaSeT P switchboards.

# Designing customer connections

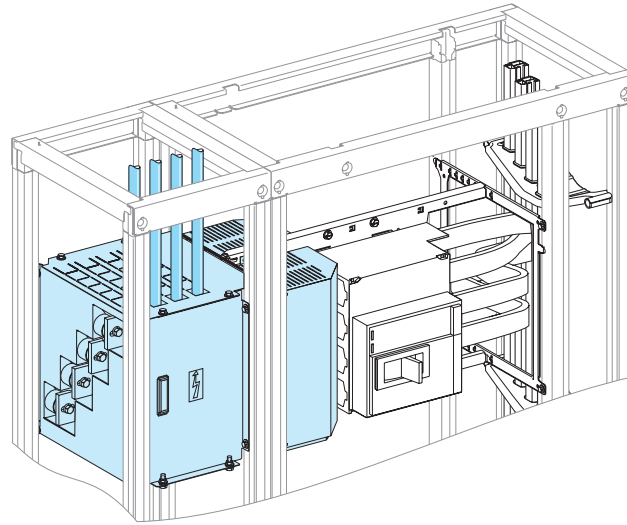
## Connection transfer assembly for fixed ComPacT NS630b to NS1000

### Electrical characteristics

#### ComPacT NS630b to NS1000, fixed

- Horizontal mounting
- Front or rear connection
- Installation on the left or right

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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
NS630b	3P cat. no. LVS04483	630	630	630	630	630	630
	4P cat. no. LVS04484						
NS800	3P cat. no. LVS04483	800	800	800	800	800	800
	4P cat. no. LVS04484						
NS1000	3P cat. no. LVS04483	1000	1000	1000	1000	1000	1000
	4P cat. no. LVS04484						

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

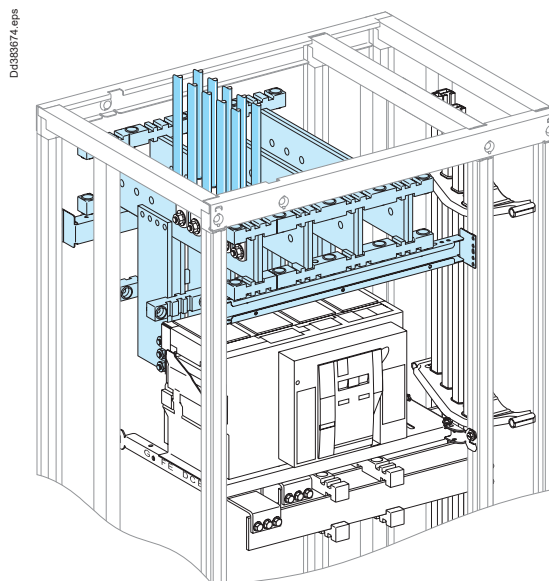
# Designing customer connections

## Fixed MasterPact 08-16

### Electrical characteristics

#### MasterPact MTZ2 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 MTZ1 06/16, 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 > [page D-147](#).

### 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
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	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
	I (A)	1600	1600	1600	1570	1520	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 PrismaSeT P switchboards.

# Designing customer connections

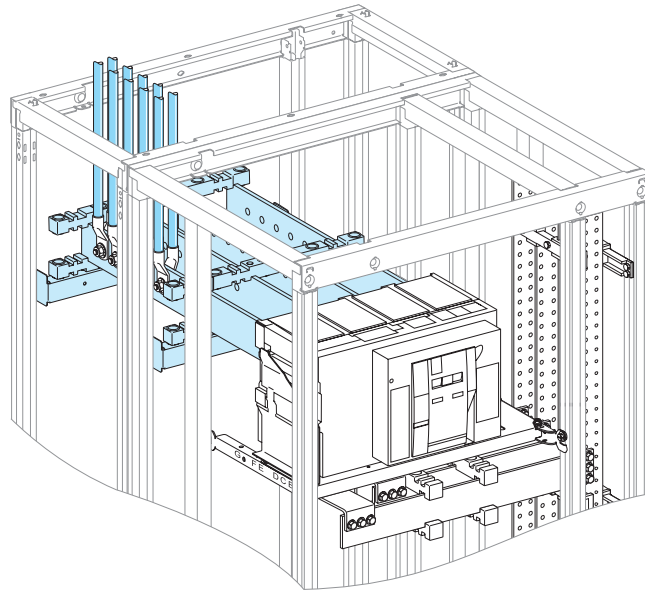
## Fixed MasterPact 08-32

### Electrical characteristics

#### MasterPact MTZ2 08 to 32 Fixed

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric

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#### 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
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1250	1250	1250
MTZ2 16	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
	I (A)	1600	1600	1600	1570	1520	1470
MTZ2 20	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
	I (A)	2000	2000	2000	2000	2000	1950
MTZ2 25	Size per phase	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10
	I (A)	2500	2500	2500	2500	2500	2460
MTZ2 32	Size per phase	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10
	I (A)	3200	3170	3080	3000	2910	2820

■ 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	MTZ2 08	MTZ2 10	MTZ2 12	MTZ2 16	MTZ2 20	MTZ2 25	MTZ2 32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

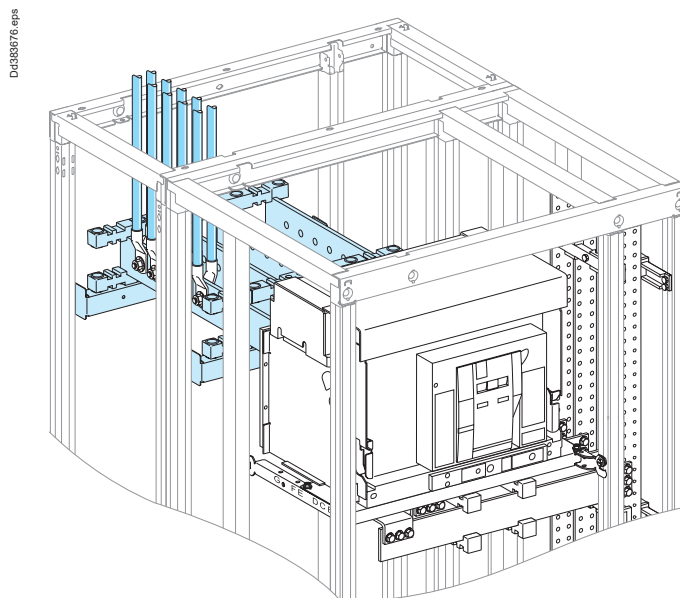
# Designing customer connections

## Drawout MasterPact 08-16

### Electrical characteristics

#### MasterPact MTZ2 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 MTZ1 08/16, 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 > [page D-147](#).

### 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
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1250	1230	1200
MTZ2 16	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
	I (A)	1560	1520	1480	1430	1380	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 PrismaSeT P switchboards.

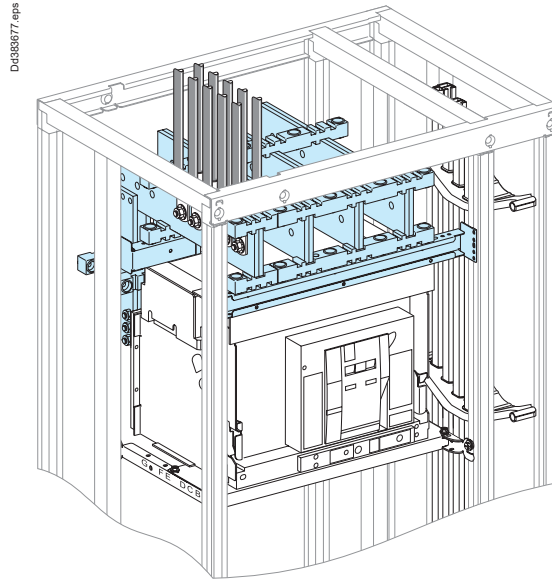
# Designing customer connections

## MasterPact 08-32 withdrawable

### Electrical characteristics

#### MasterPact MTZ2 08 to 32 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
MTZ2 08	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
	I (A)	800	800	800	800	800	800
MTZ2 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ2 12	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
	I (A)	1250	1250	1250	1210	1180	1140
MTZ2 16	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
	I (A)	1560	1520	1480	1430	1380	1330
MTZ2 20	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
	I (A)	2000	2000	2000	1950	1900	1830
MTZ2 25	Size per phase	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10
	I (A)	2470	2410	2350	2280	2210	2140
MTZ2 32	Size per phase	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10
	I (A)	2960	2890	2820	2730	2630	2530

■ 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	MTZ2 08	MTZ2 10	MTZ2 12	MTZ2 16	MTZ2 20	MTZ2 25	MTZ2 32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

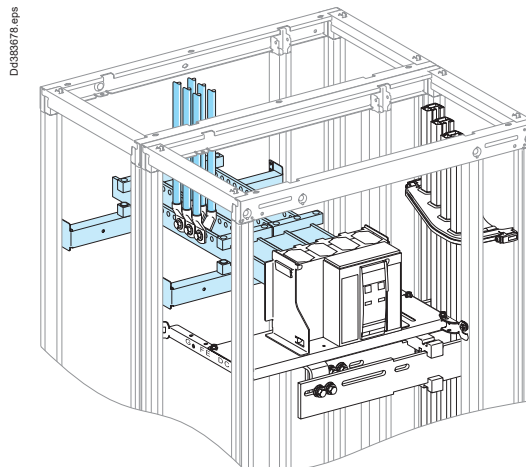
# Designing customer connections

## Fixed MasterPact 06-16

### Electrical characteristics

#### MasterPact MTZ1 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 MTZ1 06/16, 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 > [page D-147](#).



### Customer connection

#### Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C IP ≤ 31	30 °C IP ≤ 31	35 °C IP ≤ 31	40 °C IP ≤ 31	45 °C IP ≤ 31	50 °C IP ≤ 31
MTZ1 06	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
	I (A)	630	630	630	630	630	630
MTZ1 08	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
	I (A)	800	800	800	800	800	800
MTZ1 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ1 12	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
	I (A)	1250	1250	1250	1250	1250	1250
MTZ1 16	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
	I (A)	1600	1600	1570	1520	1470	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 IP ≤ 31	30 °C IP ≤ 31	35 °C IP ≤ 31	40 °C IP ≤ 31	45 °C IP ≤ 31	50 °C IP ≤ 31
MTZ1 06	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
	I (A)	630	630	630	630	630	630
MTZ1 08	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
	I (A)	800	800	800	800	800	800
MTZ1 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ1 12	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
	I (A)	1250	1250	1250	1250	1250	1230
MTZ1 16	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10
	I (A)	1600	1600	1570	1520	1470	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	MTZ1 06b	MTZ1 10	MTZ1 16
Derating coefficient K	1	1	0,98

Note: The values indicated above have been validated for PrismaSeT P switchboards.

# Designing customer connections

## Drawout MasterPact 06-16

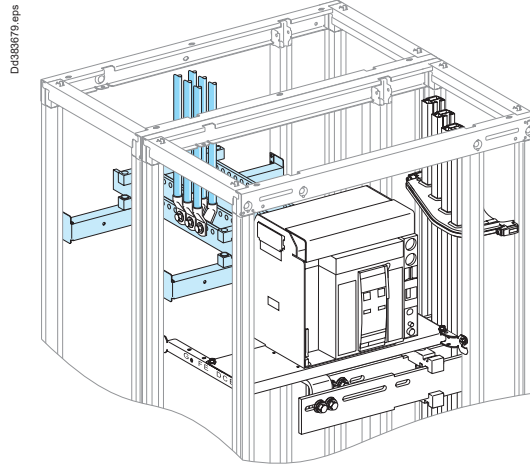
### Electrical characteristics

#### MasterPact MTZ1 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 MTZ1 06/16, 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 > [page D-147](#).

### 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
MTZ1 06	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
	I (A)	630	630	630	630	630	630
MTZ1 08	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
	I (A)	800	800	800	800	800	800
MTZ1 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ1 12	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
	I (A)	1250	1250	1250	1250	1230	1180
MTZ1 16	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
	I (A)	1560	1520	1480	1430	1380	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
MTZ1 06	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
	I (A)	630	630	630	630	630	630
MTZ1 08	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
	I (A)	800	800	800	800	800	800
MTZ1 10	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
	I (A)	1000	1000	1000	1000	1000	1000
MTZ1 12	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
	I (A)	1250	1250	1250	1250	1210	1160
MTZ1 16	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10
	I (A)	1560	1520	1480	1430	1380	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	MTZ1 06	MTZ1 08	MTZ1 10	MTZ1 12	MTZ1 16
Derating coefficient K	1	1	1	1	0,98

Note: The values indicated above have been validated for PrismaSeT P switchboards.

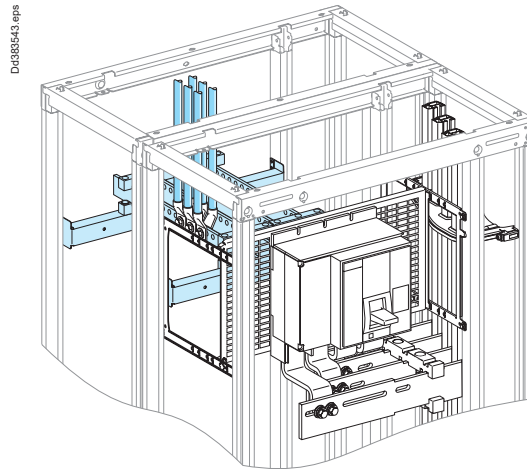
# Designing customer connections

## Fixed ComPacT NS630b to NS1600

### 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 > [page D-147](#).



#### Customer connection

##### Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C IP ≤ 31	30 °C IP ≤ 31	35 °C IP ≤ 31	40 °C IP ≤ 31	45 °C IP ≤ 31	50 °C 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
	I (A)	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
	I (A)	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
	I (A)	1000	1000	1000	1000	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
	I (A)	1250	1250	1250	1250	1250	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
	I (A)	1600	1600	1550	1500	1450	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 IP ≤ 31	30 °C IP ≤ 31	35 °C IP ≤ 31	40 °C IP ≤ 31	45 °C IP ≤ 31	50 °C 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
	I (A)	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
	I (A)	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
	I (A)	1000	1000	1000	1000	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
	I (A)	1250	1250	1250	1250	1230	1180
NS1600	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10
	I (A)	1600	1600	1550	1500	1450	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 PrismaSeT P switchboards.

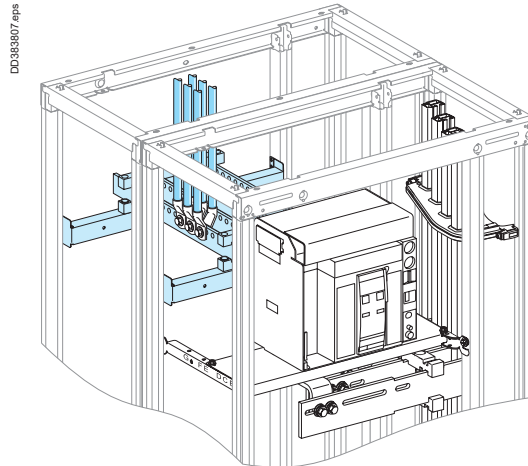
# Designing customer connections

## Withdrawable ComPacT NS630b to NS1600

### Electrical characteristics

#### 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 > [page D-147](#).

### Customer connection

#### Flat bars, 5 mm thick

Device		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C IP ≤ 31	30 °C IP ≤ 31	35 °C IP ≤ 31	40 °C IP ≤ 31	45 °C IP ≤ 31	50 °C 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
	I (A)	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
	I (A)	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
	I (A)	1000	1000	1000	1000	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
	I (A)	1250	1250	1250	1250	1230	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
	I (A)	1560	1520	1480	1430	1380	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 IP ≤ 31	30 °C IP ≤ 31	35 °C IP ≤ 31	40 °C IP ≤ 31	45 °C IP ≤ 31	50 °C 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
	I (A)	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
	I (A)	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
	I (A)	1000	1000	1000	1000	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
	I (A)	1250	1250	1250	1250	1210	1160
NS1600	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10
	I (A)	1560	1520	1480	1430	1380	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 PrismaSeT P switchboards.

# Designing customer connections

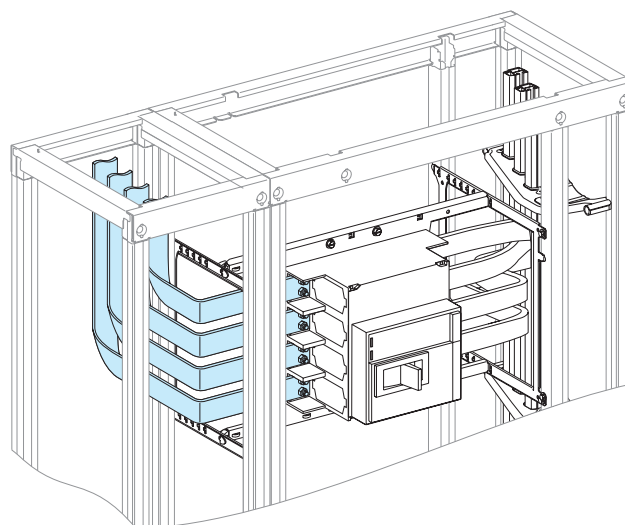
## Fixed ComPacT NS630b to NS1000 Horizontal mounting

### Electrical characteristics

#### ComPacT NS630b to NS1000

- Horizontal mounting
- Front connection
- Incoming via top or bottom
- Installation on the left or right

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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
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
	I (A)	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
	I (A)	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
	I (A)	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
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
	I (A)	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
	I (A)	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
	I (A)	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 PrismaSeT P switchboards.

## Designing busbars

FuPact GS, 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 GS/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
Linergy LGYE 630	650	630	590	550	530	460
Linergy LGYE 800	840	800	760	720	680	640
Linergy LGYE 1000	1040	990	950	900	850	800
Linergy LGYE 1250	1290	1230	1170	1100	1050	980
Linergy LGYE 1600	1580	1480	1390	1320	1250	1180
Linergy LGYE 2000	1900	1820	1720	1620	1520	1420
Linergy LGYE 2500	2290	2190	2070	1960	1880	1780
Linergy LGYE 3200	3060	2920	2780	2640	2500	2360
Linergy LGYE 4000	3320	3240	3140	2970	2800	2650

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Lateral Linergy LGY busbars

##### FuPact GS/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
Linergy LGY 630	680	630	590	550	530	460
Linergy LGY 800	840	800	760	720	680	640
Linergy LGY 1000	1040	990	950	900	850	800
Linergy LGY 1250	1290	1230	1170	1100	1050	980
Linergy LGY 1600	1580	1480	1390	1320	1250	1180
Linergy LGY 2000 (2 x 1000)	1900	1820	1720	1620	1520	1420
Linergy LGY 2500 (2 x 1250)	2380	2260	2120	2020	1900	1780
Linergy LGY 3200 (2 x 1600)	3060	2920	2780	2640	2500	2360

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

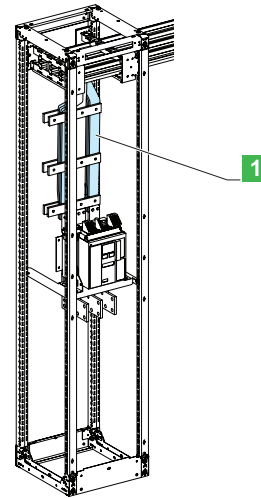
# Designing connections between a device and busbars

## Dedicated cubicle - W = 400 mm

Electrical characteristics

Fixed MasterPacT / MTZ1 06 to 16  
Fixed ComPacT NS630b to NS1600

Dedicated cubicle  
Linergy LGYE busbar  
Connections drawings supplied by Schneider Electric



1 Connection



### Connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature (°C)					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
Fixed NS, MTZ1/NT		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS 630, NT 630 & MTZ1 630	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Fixed I (A)	630	630	630	630	630	630
NS 800, NT 800 & MTZ1 800	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Fixed I (A)	800	800	800	800	800	800
NS 1000, NT 1000 & MTZ1 1000	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Fixed I (A)	1000	1000	980	960	940	920
NS 1250, NT 1250 & MTZ1 1250	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Fixed I (A)	1240	1200	1160	1125	1085	1040
NS 1600, NT 1600 & MTZ1 1600	Size per phase	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10
	Fixed I (A)	1525	1490	1450	1415	1375	1330

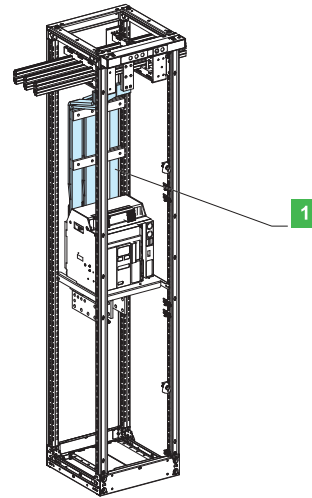
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Designing connections between a device and busbars  
 Dedicated cubicle - W = 400 mm

Electrical characteristics

Drawout MasterPacT / MTZ1 06 to 16  
 Drawout ComPacT NS630b to NS1600

Dedicated cubicle  
 Linergy LGYE busbar  
 Connections drawings supplied by Schneider Electric



1 Connection

Connection

Flat bars, 10 mm thick

Device		Permissible current (A)					
		Ambient temperature (°C)					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
Drawout NS, MTZ1/NT		IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31	IP ≤ 31
NS 630, NT 630 & MTZ1 630	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Drawout A (l)	630	630	630	630	630	630
NS 800, NT 800 & MTZ1 800	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Drawout A (l)	800	800	800	800	800	800
NS 1000, NT 1000 & MTZ1 1000	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Drawout A (l)	1000	1000	980	960	940	920
NS 1250, NT 1250 & MTZ1 1250	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10
	Drawout A (l)	1230	1190	1155	1115	1075	1030
NS 1600, NT 1600 & MTZ1 1600	Size per phase	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10
	Drawout A (l)	1515	1480	1440	1400	1355	1315

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



# PrismaSeT P

## 800 V AC

### PrismaSeT P 800 V AC

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PrismaSeT P 800 V AC

Coming soon...





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