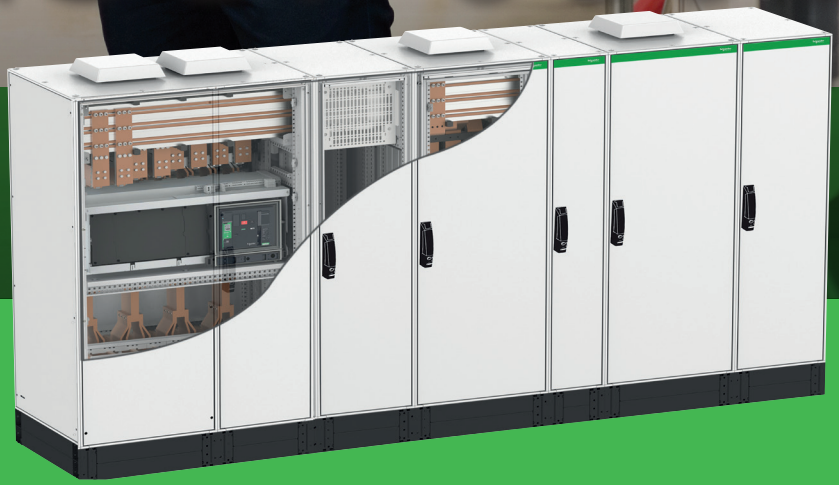
PrismaSeT 6300

Catalog 2026
Cubicles up to 6300 A

Version 6.0



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B

PrismaSeT - Reliable, Easily Connected

The new PrismaSeT switchboard is the market forerunner with built-in cloud connectivity, allowing instant access to smart alarm system, energy usage analysis, trends, and preventative maintenance plans.

Built-in cloud connectivity allows users to be notified of the round-the-clock electrical distribution as well as voltage loss if any. This maximizes efficiency and power availability, while creating the basis for future innovations. The PrismaSeT switchboard also allows easy wireless integration of sensors.

PowerLogic HeatTag
- Cable Overheating Alert



The PowerLogic HeatTag sensor is a revolutionary new product designed for fire prevention in switchboards. It uses proactive heating detection technology to drastically reduce the risk of fire.

ComPacT NSX
- With wireless Auxiliary Contact



New ComPacT NSX circuit breaker redefines and enhances customer experience through seamless connectivity along with game-changing user interface.

Acti9 AFDD Connect
- Arc Fault detection on Load cables



Acti9 AFDD Connect is most advanced protection available with all-in-one function providing connectivity and diagnostics.

PowerLogic PowerTag
- From 1 to 6300 A



PowerTag Energy is a wireless communication energy sensor that provides precise, real-time data on energy, currents, power, voltage, and power factor.



TOC

Wireless Sensor for Early Detection of Overheating Cables



SMT10020

HeatTag is a smart sensor for early detection of overheating wire connections or overheating cables. HeatTag helps prevent electrical switchboards from being damaged, by analyzing gas and particles in the air and sending alerts before any smoke or insulator browning.

Standards

The HeatTag smart sensor complies with the following standards:

- IEC 61010-1:2017 UL/CSA/EU CENELEC deviations
- IEC/EN 61326-1b FCC Part 15B and 15C
- ETSI/EN 300328
- ETSI/EN 301489-1
- IEEE 802.15.4

Note:

Do not use HeatTag as a safety device. HeatTag does not replace the fire protection devices of the building.

Presentation

HeatTag smart sensor:

- Sends three levels of alert depending on the severity of the situation it detects.
- Helps prevent potential fire damage by analyzing gas and micro-particles emitted by cable sheaths when overheating.
- Measures temperature and humidity.
- Communicates with all Schneider Electric EcoStruxure panel servers or gateways.
- Is integrated in EcoStruxure solutions.

The HeatTag sensor must be installed only in non-forced air ventilated switchboards. It must be mounted on a DIN rail.
During the first 30 minutes after commissioning, HeatTag can generate an alert for test. It then takes another 8 hours for HeatTag to define its nominal environment and to be fully operational. Each time the HeatTag sensor is powered on, these 30-minute and 8-hour sequences are repeated.

Operation

Paired with Schneider Electric panel servers or gateways, HeatTag reports:

- Alerts
- Air quality index
- Temperature and humidity measurement
- Self-diagnosis information

Air Quality

HeatTag provides an air quality index, ranging from 0 to 10, and displays the air quality evolution trend in a table.

When the air quality index is equal or above 10, HeatTag sends an alert. It has detected abnormal cable sheath heating in the switchboard.

Detection Alert

An alert is triggered when HeatTag detects abnormal cable sheath heating in the switchboard, which can be caused by:

- One or more loose connections (too high contact resistance)
- A poorly sized cable compared to the rated current
- Overcurrent and poorly regulated protective equipment
- Alerts are triggered with three severity levels:
- Low level: a cable is slowly overheating in the installation, you must plan a maintenance visit of the installation.
- Medium level: a cable is overheating in the installation, you must go quickly to the installation for maintenance.
- High level: a cable overheats very quickly, you must check the installation immediately.
- The orange application led flashes when HeatTag sends an alert to the panel servers or gateways.

Temperature

HeatTag provides a temperature value with a 30 second default transmission period. The transmission period can be increased by the system in case of high wireless data traffic.

Humidity

The HeatTag provides a humidity rate with a 30 second default transmission period. The transmission period can be increased by the system in case of high wireless data traffic.

Self-Diagnosis

HeatTag carries out two types of diagnosis:

- A minor alert is sent when the fan rpm is 80% of its nominal rpm, which means fan clogging.
- A major alert is sent when HeatTag is faulty. In this case it cannot report measures at all, nor reports incorrect measures.

PrismaSeT G: Enclosures up to 630 A
IP30, IP40, IP41, IP43, IP55





160 A

250 A

630 A

- Schools
- Small shops
- Hotels, etc.

Pack 250



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

PrismaSeT G



PrismaSeT P: Cubicles up to 4000 A IP30, IP31, IP55

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



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

PrismaSeT P





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 6300: Electrical switchboards from 4000 A...

The PrismaSeT 6300 functional system can be used for all types of low-voltage distribution switchboards up to 6300 A in harsh environments.

PB503874.ai
PB503877(2).ai





Switchboard design is very simple

1. A metal structure

Made up of one or more pre-assembled frameworks combined side-by-side or back-to-back.

2. A distribution system

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

3. Complete functional units

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

Each functional unit contributes to a function in the switchboard.

The functional units are modular and are arranged rationally.

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

The components of the PrismaSeT 6300 and those of the functional units in particular have been designed and tested taking into account device characteristics.

This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.

Advantages of PrismaSeT 6300 system switchboards

1. A dependable electrical installation

The total compatibility of Schneider Electric devices with the PrismaSeT 6300 system is a key advantage in ensuring a high level of installation dependability.

2. An upgradeable electrical installation

Thanks to modular design, PrismaSeT 6300 switchboards can be modified easily to integrate new functional units as needed or to be combined with the PanelSeT SFN Control Panel cabinets.

3. Total safety for personnel

Work in a switchboard must be carried out by authorised persons in compliance with all applicable safety regulations.

To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible.

Additional internal protection (partitions, barriers) is available to create form 2, 3 or 4 separation to protect against direct contacts with live parts.

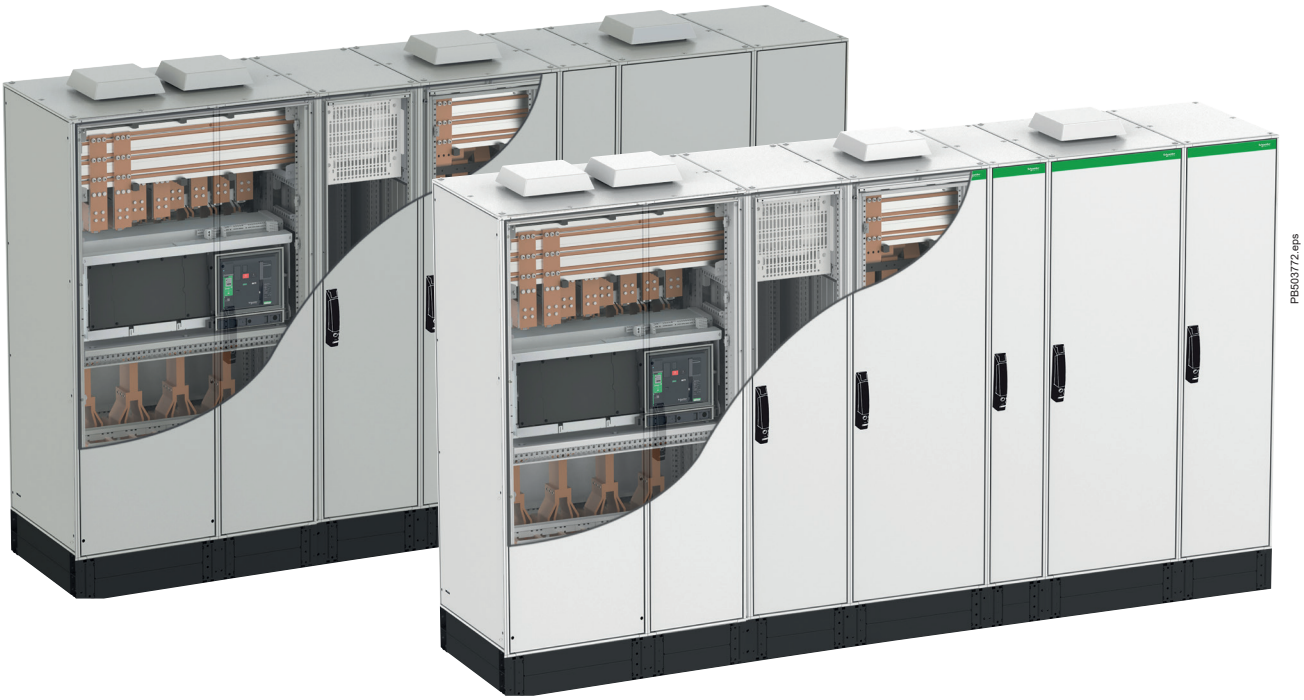
Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in PrismaSeT 6300 enclosures.

4. Connected solution up to 4000 A

- Fire prevention
- Power availability
- Energy management

...up to 6300 A

Use of the components in the PrismaSeT 6300 functional system ensures the creation of switchboards complying with standard IEC 61439-1&2.



Electrical characteristics

- Rated insulation level of main busbars: 1000 V
- Rated operational current (Ie): 6300 A
- Rated peak withstand current (Ipk): 220 kA
- Rated short-time withstand current (Icw): 100 kA rms/1 second
- Frequency: 50/60 Hz.

Mechanical characteristics

- Steel sheet metal.
- Structured finish.
- 2 options:
  - Grey color RAL 7035 and white color RAL 9003 inside (for the PrismaSeT references)
  - White color RAL 9003 outside and inside.
- Can be dismantled.
- Can be combined side-by-side and back-to-back.
- Degree of protection.
- Degree of protection against mechanical impacts.
- Enclosures dimensions:
  - four widths:
    - W300 and W500: busbar or cable compartment
    - W700 and W1200: device compartment
  - one depth:
    - D800: front connection up to 6300 A
  - height: 2000 mm
- Indoor cubicles.

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

The switchboard, central to the electrical installation

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

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

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

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

A switchboard must comply with the requirements of standard IEC 61439-1 and 2 to guarantee the safety and reliability of the installation.

Managers of installations, fully aware of the professional and legal liabilities weighing on their company and on themselves, demand a high level of safety for the electrical installation.

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

The Schneider Electric solution

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

PrismaSeT tested switchboards

The conformity of the switchboard has been tested and proven.

A Prisma**SeT** switchboard is:

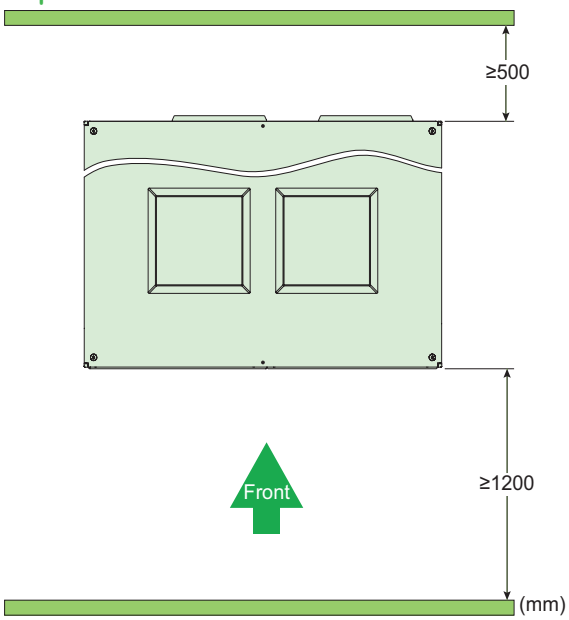
- Made up of Schneider Electric low-voltage devices and components that all comply with the applicable standards.
- Based on configurations in our catalog.
- Made up of Prisma**SeT** and Linergy mechanical and electrical components that have been subjected to the verification of original equipment manufacturer.
- Mounted and wired by a panelbuilder in compliance with professional standards.
- Subjected to individual verification.

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

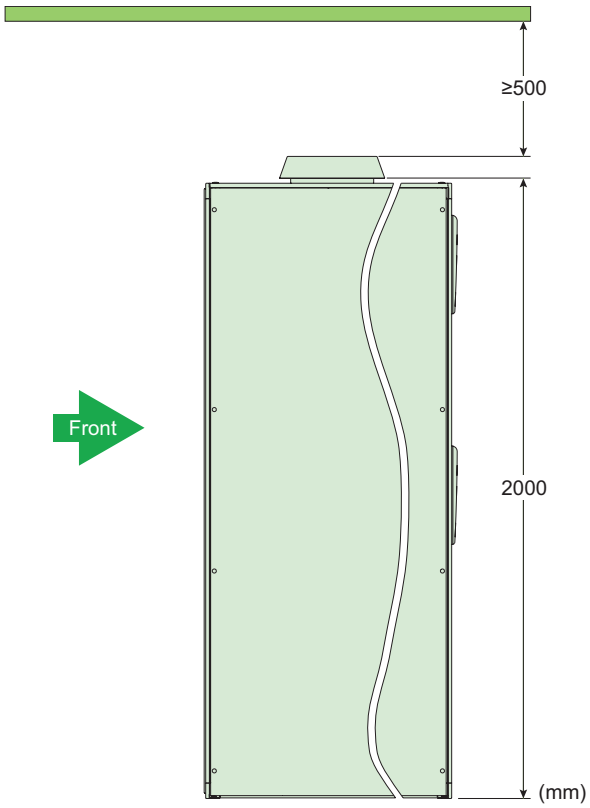
Panelbuilders can demonstrate conformity with standard IEC 61439-1 and 2 by presenting the declarations or certificates of conformity for type tests carried out by independent laboratories (ASEFA, ASTA, KEMA, etc.) and supplied by Schneider Electric. The panelbuilder is responsible for the individual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

Minimum Distance Around the Switchboard

Top View



Side View



Standards and Certifications

Contents

Standards and tested switchboards C-2

Regional standardization systems C-2
Standards types C-3

C

Standards
Regional standardization systems



Standards and tested switchboards

IEC international standards

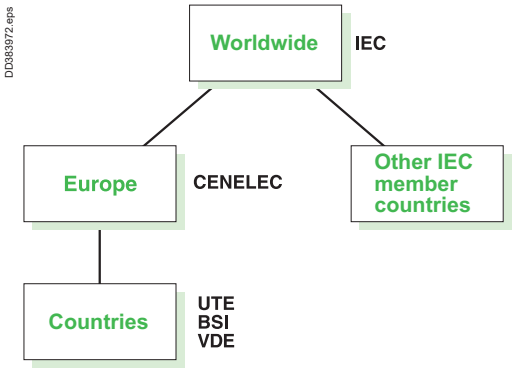
IEC member countries

Argentina	Luxemburg
Australia	Malaysia
Austria	Mexico
Belarus	Netherlands
Belgium	New Zealand
Brazil	Norway
Bulgaria	Pakistan
Canada	Poland
China	Portugal
Croatia	Rumania
Czech Rep.	Russia
Denmark	Singapore
Egypt	Slovakia
Finland	Slovenia
France	South Africa
Germany	Spain
Greece	Sweden
Hungary	Switzerland
India	Thailand
Indonesia	Turkey
Iran	Ukraine
Ireland	United Kingdom
Israel	United States
Italy	
Japan	
Korea (Rep. of)	

The IEC (International Electrotechnical Commission) is a worldwide organisation for standardisation comprising all national electrotechnical committees (IEC National Committees).

The object of the IEC is to promote international cooperation on all questions concerning standardisation in the electrical and electronic fields.
To that end, the IEC publishes International Standards.
Their preparation is entrusted to technical committees and any IEC National Committee interested in the subject dealt with may participate in the preparatory work.

Local standards



In Europe
The IEC documents are first studied by CENELEC, which establishes:
- either a European standard (EN), often identical to the IEC standard, which then becomes the applicable national standard in all the member countries
- or, in the event of differences, a harmonisation document (HD).

Other IEC member countries
Each country is autonomous and can accept the IEC standard as the national standard, with or without modifications.
Even though they are IEC members, countries such as Japan and the United States continue to develop their own standardisation systems.

Countries without a standardisation system
It is possible to refer to an IEC standard in the framework of a project.

CEI / IEC
Commission Electrotechnique Internationale
CENELEC
Comité Européen de Normalisation ELECtrotechnique
UTE
Union Technique de l'Électricité
VDE
Verband der Elektrotechnik, Elektronik und Informationstechnik e.v. (German electrotechnical, electronics and computer technology standardisation organisation)
BSI
British Standards Institution

Standards
Standards types

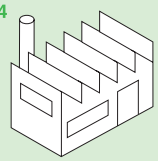


Standards and tested switchboards

The different types of standards

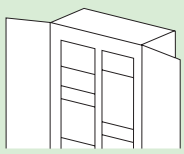
There are different types of standards, including:
- management standards
- installation standards
- product standards.

Dd381775.eps



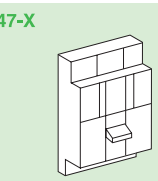
Design and manufacture.

Dd381776[Converted].eps



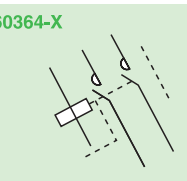
Switchgear and controlgear assemblies.

Dd381777.eps



Switchgear and controlgear.

Dd381778.eps



Installation.

Management standards

ISO 9004: Quality-management systems - guidelines for performance improvements.
Used in setting up a quality-management system.

ISO 9001: Quality management systems - requirements.
Used for certification audits.
ISO 14004: Environmental-management systems.
General guidelines on the principles, systems and supporting techniques.
ISO 14001: Environmental-management systems.
Specification with guidance for use
- The majority of Schneider Electric development centres and factories are certified ISO 9001 and ISO 14001.

Installation standards

The set of IEC 60364-X standards defines the main principles and rules on:
- determining general characteristics of installations
- protection
- selection and installation of equipment
- verification and maintenance of installations.

Product standards

They apply to devices or assemblies and are aimed at ensuring correct operation and safety of the concerned products.
- standards on low-voltage switchgear and controlgear:
  - IEC 60947-1: general rules
  - IEC 60947-2: circuit breakers
  - IEC 60947-3: switches and disconnectors
  - IEC 60947-4: contactors
  - IEC 62208: empty enclosures.
- standards on low-voltage switchgear and controlgear assemblies:
  - IEC 61439-1: general rules
  - IEC 61439-2: power switchgear and controlgear assemblies
  - IEC 61439-3: distribution boards
  - IEC 61439-4: assemblies for construction sites
  - IEC 61439-5: assemblies for power distribution
  - IEC 61439-6: busbar trunking systems.

Regulations in a given country may make certain standards legally binding and may also create additional safety requirements.

In addition to providing proof of the conformity of its quality-management system, a product manufacturer can demonstrate the quality of products by providing proof that the design and manufacture comply with the requirements in the applicable standard.
Proof of conformity may be a declaration by the manufacturer or a certificate supplied by an independent organisation.

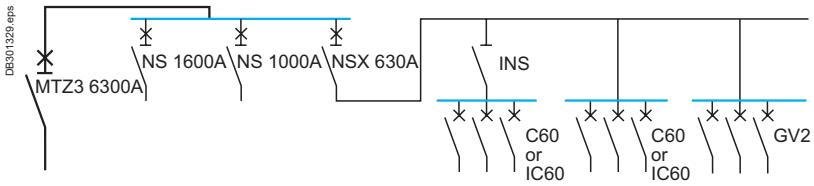
Selection Guide

Contents

Selection guide D-2
Select a cubicle configuration D-2

D

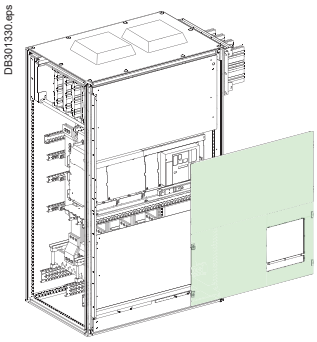
Starting with the electrical diagram: IP54 switchboard



Install the incomer

PrismaSeT 6300 Functional Units

1 Define incoming cables connection
2 Mount incomer device
3 Linergy LGYE 6300 connection

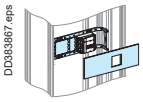


Incoming Cables Connection			
Devices		**Withdrawable device**	
		MTZ3 6300 4P	
Mounting		**Front connection with cables**	**Front connection with Canalis Interface**
Number of devices per row		1	1
No. of vertical modules		38	38
Mounting Plate		**LVS03509**	**LVS03509**
Front Plates [No. of vertical modules]	upstream	**LVS03708** [13]	**LVS03708** [13]
	with cut-out	**LVS03707** [12]	**LVS03707** [12]
	downstream	**LVS03708** [13]	**LVS03708** [13]
Cross rails required to support mounting plate and connections must be made		2 x set of **NSYSUCR90120** 2 x set of **NSYSUCR9080** 2 x set of **NSYSUCR40120** 1 x set of **NSYSUCR65120** 1 x set of **NSYSUCR6580** **LVS04631**	2 x set of **NSYSUCR9080** 2 x set of **NSYSUCR40120** 1 x set of **NSYSUCR65120** 1 x set of **NSYSUCR6580**
Support for cross rails and bars		3 x **LVS04678**	3 x **LVS04678**
Interface		–	3P / 4P
			LVMZ1207 / **LVMZ1208**
Links on horizontal busbars Linergy LGYE 6300A		Must be made	Must be made

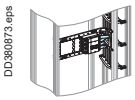
Install functional units up to 3200 A

PrismaSeT P Functional Units

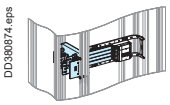
1 Installation



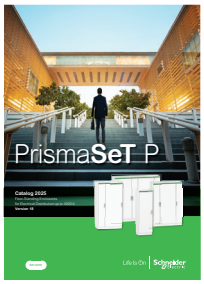
2 Lynergy LGY BB connection



3 Connection with vertical BB must be made



See PrismaSeT P catalog (DESW024EN) to design the functional units up to 4000 A

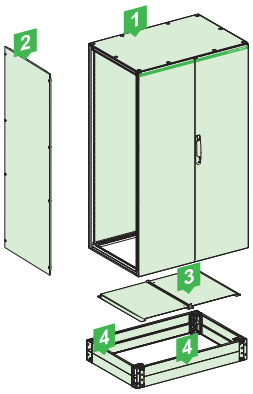


Determine the size of the switchboard:

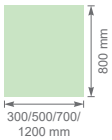
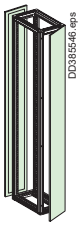
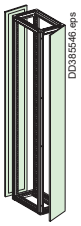
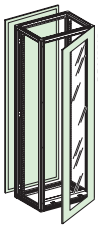
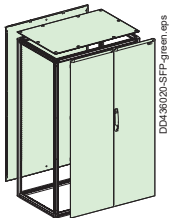
- Count the number of modules occupied
- Determine the number of cubicles
- Order the additional plain front plates

Select the enclosures

PrismaSeT 6300 cubicles



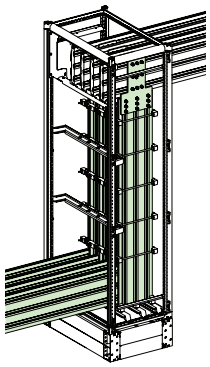
Switchboard 1 - Enclosure for the MTZ3 installation, W = 1200, D = 800

Mounting	Enclosures for front connection			
				
Width (mm)	**300**	**500**	**700**	**1200**
	Depth 800 mm			
Assembled enclosure plain door	**NSYSFN20380ED**	**NSYSFN20580ED**	**NSYSFPN20780ED**	**NSYSFN201280DED**
Assembled enclosure glazed door	**–**	**–**	**NSYSFPN20780TED**	**–**
Uprights for Linergy LGY mounting	**NSYSFPAED + NSYSUCR40200**	**–**	**–**	**–**
Additional flanges for 5000 to 6300 A	**–**	**LVS03598 (2 flanges are included)**	**LVS06569 (1 flange is included)**	**LVS03599 (2 flanges are included)**
Additional intermediary uprights for Linergy 6300A	**–**	**LVS03589 (2 uprights are included)**	**LVS03589 (2 uprights are included)**	**NSYVR18 (2 uprights are included)**

D

Plan the distribution system

Linergy distribution systems



Permissible current and selection of Linergy LGYE busbars
Up to 6300 A
Linergy LGYE section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	**IP ⩽ 31**	**IP > 31**	**IP ⩽ 31**	**IP > 31**	**IP ⩽ 31**	**IP > 31**	**IP ⩽ 31**	**IP > 31**	**IP ⩽ 31**	**IP > 31**	**IP ⩽ 31**	**IP > 31**
Linergy LGYE 630	680	580	650	550	630	530	590	500	550	470	520	▪
Linergy LGYE 800	860	740	830	710	800	680	750	630	700	600	660	▪
Linergy LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	▪
Linergy LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	▪
Linergy LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	▪
Linergy LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	▪
Linergy LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	▪
Linergy LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	▪
Linergy LGYE 4000	3800	3510	3710	3430	3620	3350	3450	3180	3280	3020	3120	▪
Linergy LGYE 6300 *	5800	5490	5680	5370	5550	5250	5410	5120	5270	4990	5130	4860
Linergy LGYE 6300 (Forced Ventilation)	▪	6300	▪	6300	▪	6300	▪	6300	▪	6300	▪	6300

Functional Units

Contents

Circuit breakers E-3

Dedicated cubicle - W=1200 Cables connection E-3
Dedicated cubicle - W=1200 Canalis connection E-4
Dedicated cubicle - W=1200+500 or 500+1200 Coupling E-5

Switchgears

Upgradeable functional units

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

- MasterPacT MTZ3
  From 4000 to 6300 A



- MasterPacT MTZ2
  From 800 to 4000 A



- MasterPacT MTZ1
  From 600 to 1600 A



- ComPacT NSX
  up to 630 A



- ComPacT NS
  from 630b to 1600 A



- ComPacT NS
  up to 3200 A



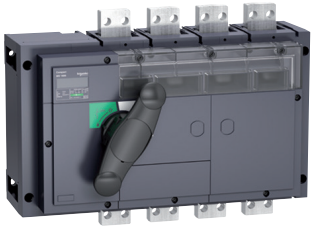
- EasyPact
  from 100 to 630 A



- ComPacT INS-INV250-630 A



- ComPacT INS-INV630-2500 A



- Source changeover systems ComPacT/MasterPacT



- Source changeover systems ComPacT INS

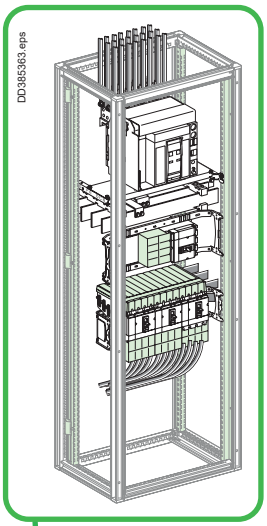


- FuPacT
  from 32 to 1250 A



- Acti9

- Accessories

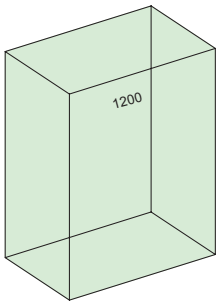
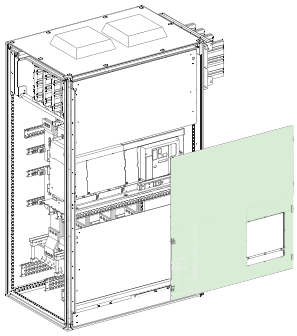


For more information, see the catalog PrismaSeT P - DESW024EN.

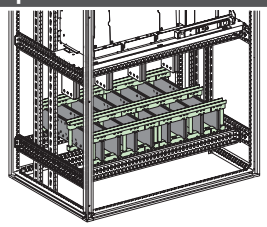
MasterPacT MTZ3 40b to 63

Dedicated cubicle - W=1200 Cables connection

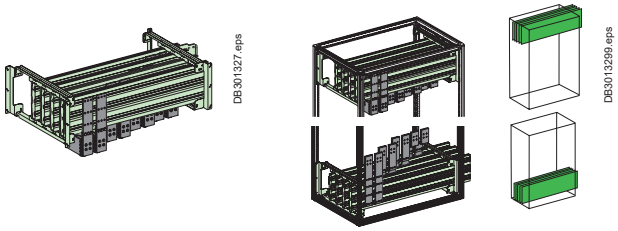
Withdrawable

Mounting		Front connection
		

Devices		Withdrawable device
		MTZ3 40-63
Number of devices per row		1
Number of vertical modules		38
Mounting plate		**LVS03509**
Front plates [No. of vertical modules]	Upstream	**LVS03708** [13]
	with cut-out	**LVS03707** [12]
	downstream	**LVS03708** [13]
Cross rails required for mounting plate support		1 x set of **NSYSUCR9080** (2 pieces)

Connection	Upstream on incomer
	

Devices	Withdrawable device
	MTZ3 40-63
Type of terminals	Top & bottom rear vertical connections supplied with the device, needs to be replaced by 3 x set of **87233** for 3P device (12 pieces) or 4 x set of **87233** for 4P device (16 pieces) (1) (2)
Connection	must be made (3)
Connections cross bar support	**LVS04631**
Cross rails required to support the connections to be made	2 x set of **NSYSUCR90120** (4 pieces)
	1 x set of **NSYSUCR9080** (2 pieces)
	2 x set of **NSYSUCR40120** (4 pieces)

Distribution	Links on horizontal busbars Linergy LGYE 6300 A
	

Devices	Withdrawable device
	MTZ3 40-63
Type of device terminal pad	3 x set of **87233** for 3P device (12 pieces) (1) (2) 4 x set of **87233** for 4P device (16 pieces) (1) (2)
Connection	must be made (3)
Cross rails required to support the connections to be made	1x set of **NSYSUCR65120**
	1x set of **NSYSUCR6580**
Support for cross rails	3x **LVS04678**

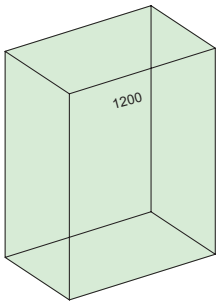
(1) This represents the total required quantity for the replacement of existing pad on the device for both top and bottom device connection.
(2) Do not throw away top & bottom connections supplied with the device. They will need to be used as connection links to the must be made connections.
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

MasterPacT MTZ3 40b to 63

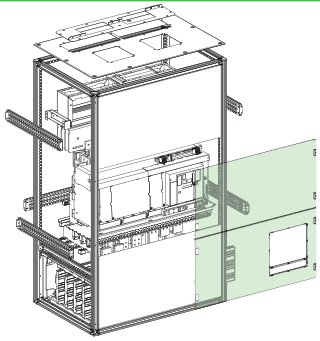
Dedicated cubicle - W=1200 Canalis connection

Withdrawable

Mounting



Front connection

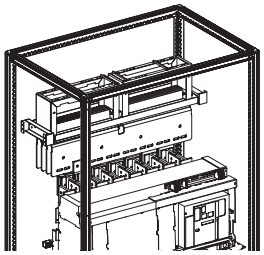


Devices		Withdrawable device
		MTZ3 40-63
Number of devices per row		1
Number of vertical modules		38
Mounting plate		**LVS03509**
Front plates [No. of vertical modules]	Upstream	**LVS03708** [13]
	with cut-out	**LVS03707** [12]
	downstream	**LVS03708** [13]
Cross rails required for mounting plate support		2 x **NSYSUCR9080**

Connection



Upstream on incomer

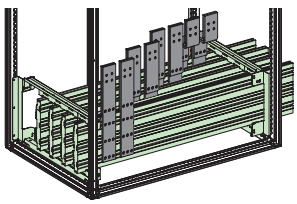


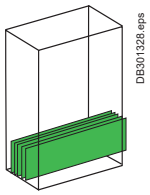
Devices		Withdrawable device	
		MTZ3 63	
Type of terminals		Top & bottom rear vertical connections supplied with the device, needs to be replaced by 3 x **set of 87233** for 3P device (12 pieces) or 4 x **set of 87233** for 4P device (16 pieces) (1) (2)	
Canalis support		1x **set of NSYSUCR6580**	
Canalis interface bracket		**LVS04739**	
Canalis interface (4)		3P	4P
		LVMZ1207	**LVMZ1208**
Front connection	Extension bars	must be made (3)	

Distribution



Links on horizontal busbars Linergy LGYE 6300 A





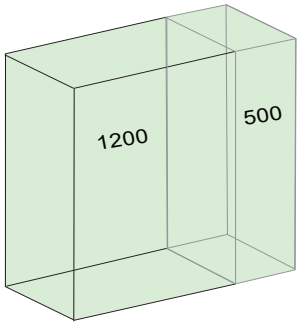
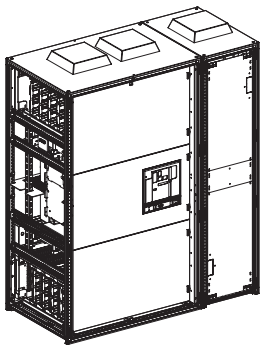
Devices	Withdrawable device
	MTZ3 40-63
Type of device terminal pad	**3 x set of 87233 for 3P** device (12 pieces) (1) (2) **4 x set of 87233 for 4P** device (16 pieces) (1) (2)
Connection	must be made (3)
Cross rails required to support the connections to be made	1x **set of NSYSUCR65120**
	1x **set of NSYSUCR6580**
Support for cross rails	3x **LVS04678**

(1) This represents the total required quantity for the replacement of existing pad on the device for both top and bottom device connection.
(2) Do not throw away top & bottom connections supplied with the device.They will need to be used as connection links to the must be made connections.
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.
(4) To tighten the screws of the Canalis interface use the special tool 87808.

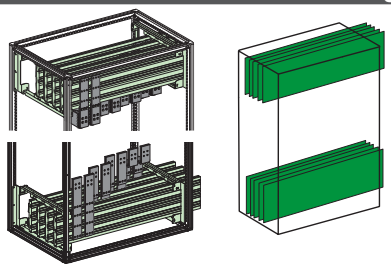
MasterPacT MTZ3 40b to 63

Dedicated cubicle - W=1200+500 or 500+1200 Coupling

Withdrawable

Mounting	Front connection
	

Devices		Withdrawable device
		MTZ3 40-63
Number of devices per row		1
Number of vertical modules		38
Mounting plate		**LVS03509**
Front plates [No. of vertical modules]	Upstream	**LVS03708** [13]
	with cut-out	**LVS03707** [12]
	downstream	**LVS03708** [13]
Cross rails required for mounting plate support		1 x set of **NSYSUCR9080** (2 pieces)

Distribution	Links on horizontal busbars Linergy LGYE 6300 A
	

Devices	Withdrawable device
	MTZ3 40-63
Type of device terminal pad	**3 x set of 87233 for 3P** device (12 pieces) (1) (2) **4 x set of 87233 for 4P** device (16 pieces) (1) (2)
Connection	must be made (3)
Cross rails required to support the connections to be made	2 x **set of NSYSUCR65120** 2 x **set of NSYSUCR6580**
Support for cross rails	6 x **LVS04678**

(1) This represents the total required quantity for the replacement of existing pad on the device for both top and bottom device connection.
(2) Do not throw away top & bottom connections supplied with the device.They will need to be used as connection links to the must be made connections.
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Enclosures

Contents

Enclosures F-2

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PrismaSeT 6300 - IP55 side panels F-5
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Coupling kit F-12
Plinth F-13
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Installation accessories F-15
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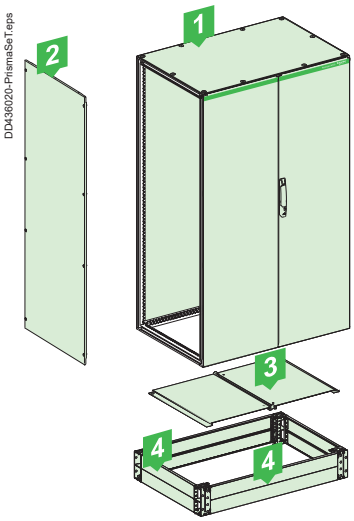
F

1200 mm width switchboard

For incomer switchboard with front connections.
- assembled enclosure
- side panels = set of two panels
- gland plates (plain)
- plinth

Parts list for switchboard 1 (depth 800)

1	**NSYSFN201280DED**	PrismaSeT 6300 - Enclosure for MTZ3 - double door - 2000x1200x800 mm - RAL9003
2	**NSY2SPN208ED**	PrismaSeT 6300 - 2 side panels - 2000x800mm - RAL9003
3	**NSYEC128**	PanelSeT SFN plain cable gland plate - fixed by clips - 1200x800 mm
4	**NSYSPF12200**	PanelSeT SFN/SM front plinth - 200x1200 mm
4	**NSYSPS8200**	PanelSeT SFN/SM side panel plinth - 200x800 mm



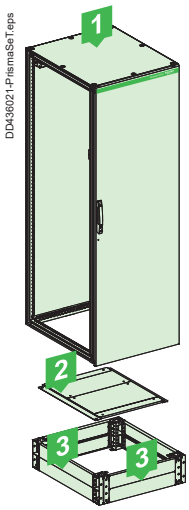
Switchboard 1 - Enclosure for the MTZ3 installation, W = 1200, D = 800

700 mm width switchboard

For switchboard with front connections.
- assembled enclosure
- transparent door or plain door
- gland plates (1 entry).

Parts list for switchboard 2 (depth 800)

1	**NSYSFPN20780ED**	PrismaSeT 6300 - Enclosure PrismaSeT FU - plain door - 2000x700x800 mm - RAL9003
2	**NSYEC781**	PanelSeT SFN 1 entry cable gland plate - fixed by clips - 700x800 mm
3	**NSYSPF7200**	PanelSeT SFN/SM front plinth - 200x700 mm
3	**NSYSPS8200**	PanelSeT SFN/SM side panel plinth - 200x800 mm



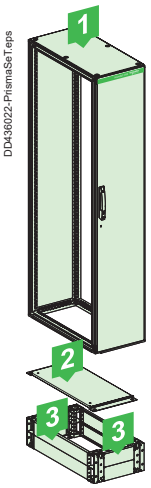
Switchboard 2 - Enclosure for the functional units, W = 700

500 mm width switchboard

Made up of single cubicle used for vertical busbars (above 4000 A) or cable chamber.
Front connections are possible
- assembled enclosure
- gland plates (1 entry)
- plinth

Parts list for switchboard 3 (depth 800)

1	**NSYSFN20580ED**	PrismaSeT 6300 - Enclosure LGYE6300 busbar - plain door - 2000x500x800 mm - RAL9003
2	**NSYEC581**	PanelSeT SFN 1 entry cable gland plate - fixed by clips - 500x800 mm
3	**NSYSPF5200**	PanelSeT SFN/SM front plinth - 200x500 mm
3	**NSYSPS8200**	PanelSeT SFN/SM side panel plinth - 200x800 mm



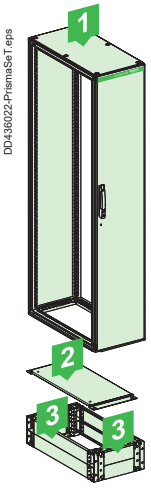
Switchboard 3 - Enclosure for vertical LGYE 6300 installation, W = 500, D = 800

300 mm width switchboard

Made up of single cubicle used for vertical busbars (up to 4000 A) or cable chamber.
Front connections are possible.
- assembled Enclosure
- gland plates (1 entry).

Parts list for switchboard 4 (depth 800)

1	**NSYSFN20380ED**	PrismaSeT 6300 - Enclosure busbar/cables - plain door - 2000x300x800 mm - RAL9003
2	**NSYEC381**	PanelSeT SFN 1 entry cable gland plate - fixed by clips - 300x800 mm
3	**NSYSPF3200**	PanelSeT SFN/SM front plinth - 200x300 mm
3	**NSYSPS8200**	PanelSeT SFN/SM side panel plinth - 200x800 mm

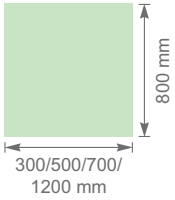
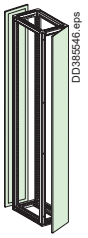
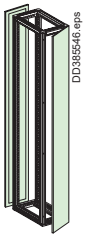
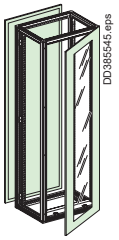
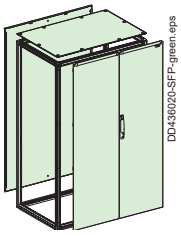


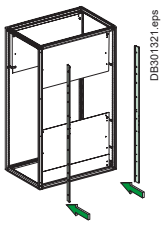
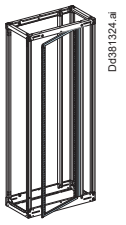
Switchboard 4 - Enclosure for vertical busbar installation or cable management, W = 300

F

Enclosures

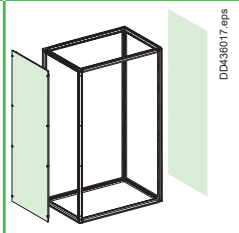
Frameworks

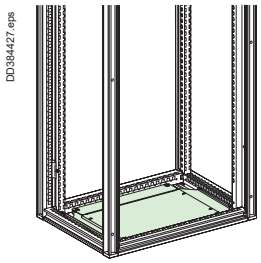
Mounting	Enclosures for front connection			
				
Width (mm)	**300**	**500**	**700**	**1200**
	Depth 800 mm			
Assembled enclosure plain door	**NSYSFN20380ED**	**NSYSFN20580ED**	**NSYSFPN20780ED**	**NSYSFN201280DED**
Assembled enclosure transparent door	–	–	**NSYSFPN20780TED**	–
Uprights for Linergy LGY mounting	**NSYSFPAED + NSYSUCR40200**	–	–	–
Additional flanges for 5000 to 6300 A	–	**LVS03598** (2 flanges are included)	**LVS06569** (1 flange is included)	**LVS03599** (2 flanges are included)
Additional intermidiary uprights for Linergy 6300A	–	**LVS03589** (2 uprights are included)	**LVS03589** (2 uprights are included)	**LVS06500 + NSYVR18** (2 uprights are included)

Mounting	Fixed front plate support uprights for W1200	Hinged front plate frame support W700
		
Width (mm)	**1200**	**700**
Cat. no.	**LVS03591**	**LVS08566**
Characteristics	–	▪ Reversible for left or right-hand opening. ▪ Secured at two points.

Enclosures

IP55 side panels

Mounting	Side panels			
				
Dimensions (mm)	**W = 300**	**W = 500**	**W = 700**	**W = 1200**
Dimensions (mm)	**D = 800**			
Side panels	**NSY2SPN208ED**			
Characteristics	Supplied with quarter-turn fasteners.			

Mounting	Gland plates			
				
Dimensions (mm)	**W = 300 mm**	**W = 500 mm**	**W = 700 mm**	**W = 1200 mm**
D800	**NSYEC381**	**NSYEC581**	**NSYEC781**	**NSYEC128**

Note: Gland plates with 1 cable entry for W300/500/700 mm. No cable entry for W1200 mm.

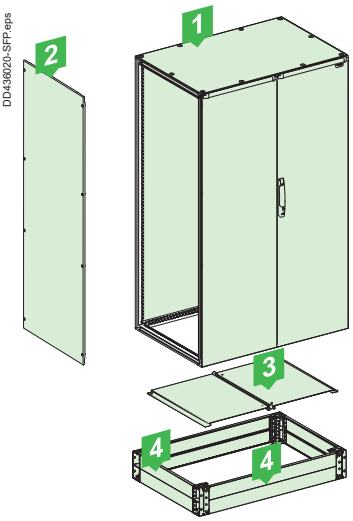
F

1200 mm width switchboard

For incomer switchboard with front connections.
- assembled enclosure
- side panels = set of two panels
- gland plates (plain)
- plinth

Parts list for switchboard 1 (depth 800)

1	**NSYSFN2012802D**	PanelSeT SFN enclosure without mounting plate - assembled - 2000x1200x800 mm
2	**NSY2SPN208**	PanelSeT SFN external fixing side panels - 2000x800 mm
3	**NSYEC128**	PanelSeT SFN plain cable gland plate - fixed by clips - 1200x800 mm
4	**NSYSPF12200**	PanelSeT SFN/SM front plinth - 200x1200 mm
4	**NSYSPS8200**	PanelSeT SFN/SM side panel plinth - 200x800 mm



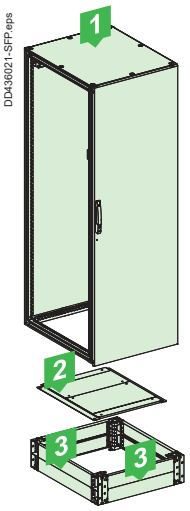
Switchboard 1 - Enclosure for the MTZ3 installation, W = 1200, D = 800

700 mm width switchboard

For switchboard with front connections.
- assembled enclosure
- transparent door or plain door
- gland plates (1 entry)
- plinth

Parts list for switchboard 2 (depth 800)

1	**NSYSFPN20780G**	Prisma**SeT** 6300 - Enclosure Prisma**SeT** FU - plain door - 2000x700x800mm - RAL7035
2	**NSYEC781**	PanelSeT SFN 1 entry cable gland plate - fixed by clips - 700x800 mm
3	**NSYSPF7200**	PanelSeT SFN/SM front plinth - 200x700 mm
3	**NSYSPS8200**	PanelSeT SFN/SM side panel plinth - 200x800 mm



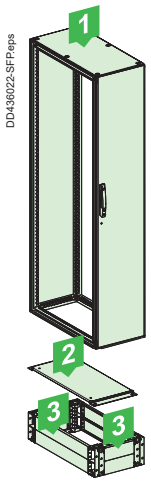
Switchboard 2 - Enclosure for the functional units, W = 700

500 mm width switchboard

Made up of single cubicle used for vertical busbars (above 4000 A) or cable chamber.
Front connections are possible
- assembled enclosure
- gland plates (1 entry)
- plinth

Parts list for switchboard 3 (depth 800)

1	**NSYSFN20580**	PanelSeT SFN enclosure without mounting plate - assembled - 2000x500x800 mm
2	**NSYEC581**	PanelSeT SFN 1 entry cable gland plate - fixed by clips - 500x800 mm
3	**NSYSPF5200**	PanelSeT SFN/SM front plinth - 200x500 mm
3	**NSYSPS8200**	PanelSeT SFN/SM side panel plinth - 200x800 mm



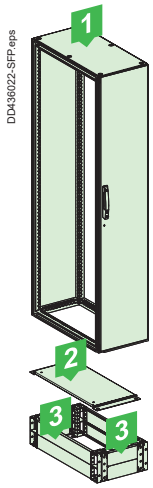
Switchboard 3 - Enclosure for vertical LGYE 6300 installation, W = 500, D = 800

300 mm width switchboard

Made up of single cubicle used for vertical busbars (up to 4000 A) or cable chamber.
Front connections are possible.
- assembled Enclosure
- gland plates (1 entry)
- plinth

Parts list for switchboard 4 (depth 800)

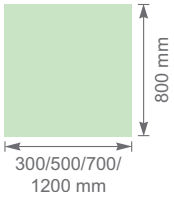
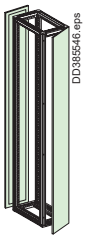
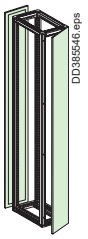
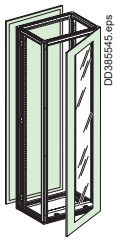
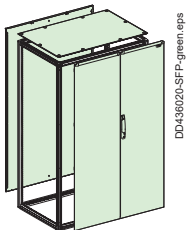
1	**NSYSFN20380**	PanelSeT SFN enclosure without mounting plate - assembled - 2000x300x800 mm
2	**NSYEC381**	PanelSeT SFN 1 entry cable gland plate - fixed by clips - 300x800 mm
3	**NSYSPF3200**	PanelSeT SFN/SM front plinth - 200x300 mm
3	**NSYSPS8200**	PanelSeT SFN/SM side panel plinth - 200x800 mm

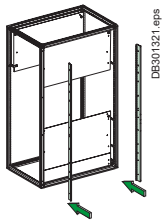
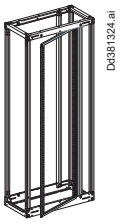


Switchboard 4 - Enclosure for vertical busbar installation or cable management, W = 300

F

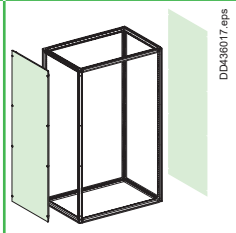
Enclosures
Frameworks

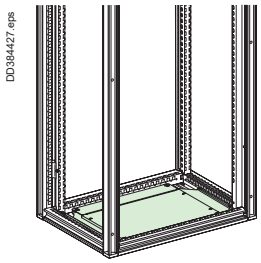
Mounting	Enclosures for front connection			
				
Width (mm)	**300**	**500**	**700**	**1200**
	Depth 800 mm			
Assembled enclosure plain door	**NSYSFN20380**	**NSYSFN20580**	**NSYSFPN20780G**	**NSYSFN2012802D**
Assembled enclosure transparent door	**–**	**–**	**NSYSFPN20780TG**	**–**
Uprights for Linergy LGY mounting	**NSYSFPAED + NSYSUCR40200**	**–**	**–**	**–**
Additional flanges for 5000 to 6300 A	**–**	**LVS03598** (2 flanges are included)	**LVS06569** (1 flange is included)	**LVS03599** (2 flanges are included)
Additional intermidiary uprights for Linergy 6300A	**–**	**LVS03589** (2 uprights are included)	**LVS03589** (2 uprights are included)	**LVS06500 + NSYVR18** (2 uprights are included)

Mounting	Fixed front plate support uprights for W1200	Hinged front plate frame support W700
		
Width (mm)	**1200**	**700**
Cat. no.	**LVS03591**	**LVS08566**
Characteristics	**–**	▪ Reversible for left or right-hand opening. ▪ Secured at two points.

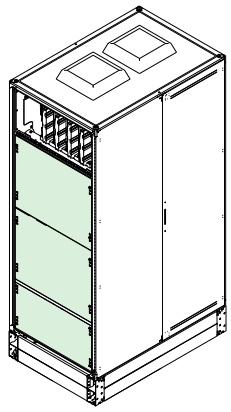
Enclosures

IP55 side panels

Mounting	Side Panels			
				
Dimensions (mm)	**W = 300**	**W = 500**	**W = 700**	**W = 1200**
Dimensions (mm)	**D = 800**			
Side panels	**NSY2SPN208**			
Characteristics	Supplied with quarter-turn fasteners.			

Mounting	Gland plates			
				
Dimensions (mm)	**W = 300 mm**	**W = 500 mm**	**W = 700 mm**	**W = 1200 mm**
D800	**NSYEC381**	**NSYEC581**	**NSYEC781**	**NSYEC128**

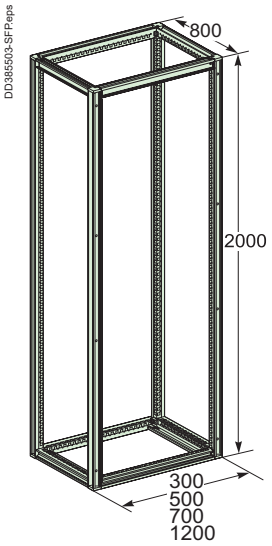
Note: Gland plates with 1 cable entry for W300/500/700 mm. No cable entry for W1200 mm.

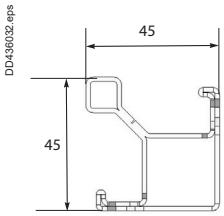
	Description	Catalog Number
	Inter-column partition	**LVS04979**

- Systematically install partitions at each end of the switchboard.
- A column added to an existing switchboard must receive an inter-column partition at its left.
- It gives way to the horizontal busbar.
- It can be installed between any compartment or cubicle in order to partition specific areas in the switchboard.

Dimensions

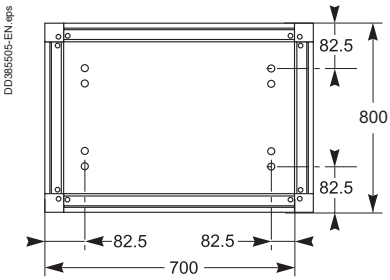
Frameworks





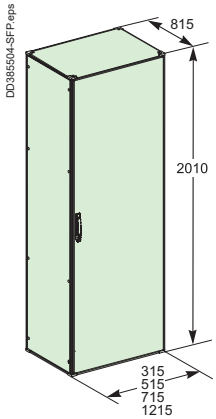
Fixing to floor

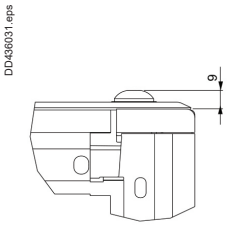
Without plinth



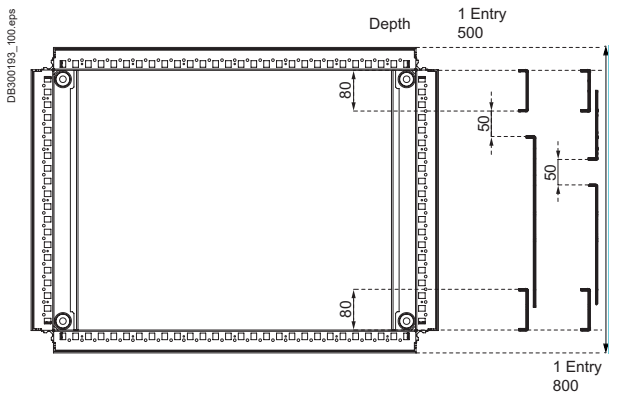
Cubicle with cover panels

Height



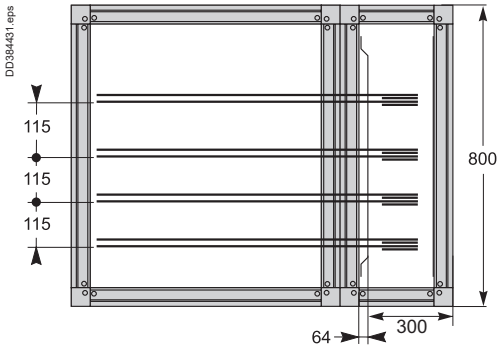


Gland plates

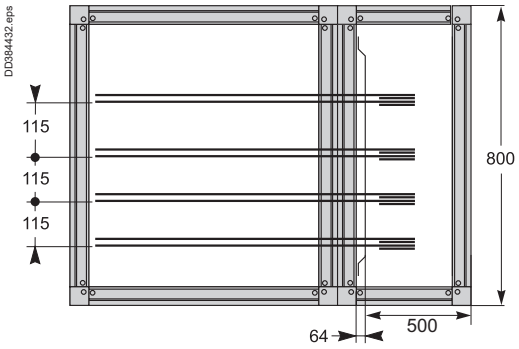


Busbars mounting, lateral vertical busbars

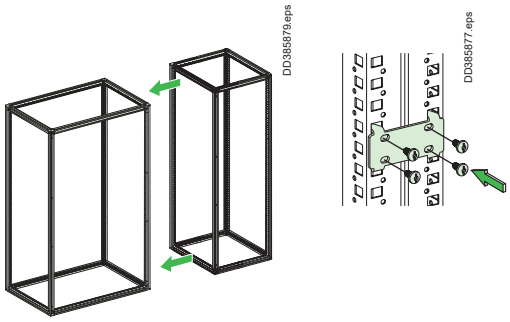
2500 A to 6300 A

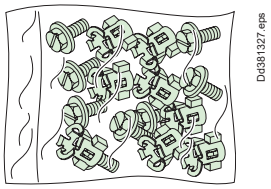


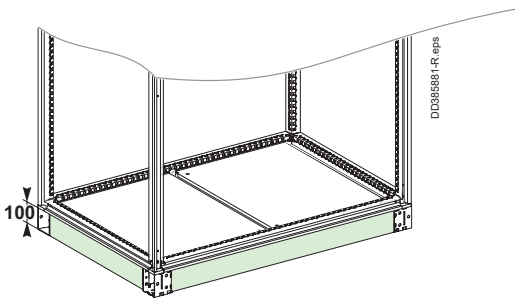
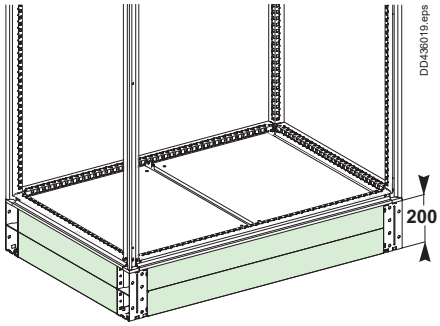
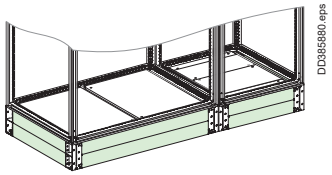
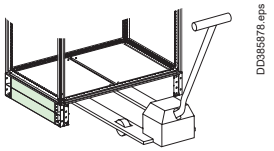
>4000 A - up to 6300 A



F

	Coupling kit
	
Type	**Side-by-side**
Cat. no.	**NSYSFBK19**

	Accessories
	
Type	**Commodities**
	Fixing screws and nuts
Cat. no.	**LVS08921**
Characteristics	Set of 20 screws

Mounting		Plinth H = 100 mm				Plinth H = 200 mm			
									
Dimensions (mm)		**W = 300**	**W = 500**	**W = 700**	**W = 1200**	**W = 300**	**W = 500**	**W = 700**	**W = 1200**
Front and rear cross-pieces	D=800	**NSYSPF3100**	**NSYSPF5100**	**NSYSPF7100**	**NSYSPF12100**	**NSYSPF3200**	**NSYSPF5200**	**NSYSPF7200**	**NSYSPF12200**
Lateral cross-pieces	D = 800	**NSYSPS8100**	**NSYSPS8100**	**NSYSPS8100**	**NSYSPS8100**	**NSYSPS8200**	**NSYSPS8200**	**NSYSPS8200**	**NSYSPS8200**
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. Each catalog number is supplied with the necessary hardware.							
Examples		 Side-by-side combination of two cubicles with a plinth.				 The front and rear cross-pieces can be easily removed for a pallet-mover.			

⚠ WARNING

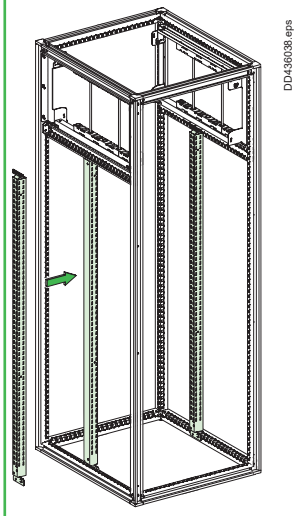


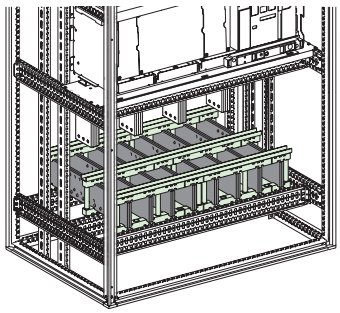
TIP OVER HAZARD

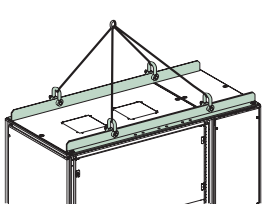
- Read and apply user instructions before work:
  - Secure the product in place.
  - Secure the product if removing the securing bolts or moving the product.
  - Use appropriate lifting equipment.
- Use trained personnel only, who know and understand the user instructions.

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

F

Mounting	Vertical Column Support			
				
Width (mm)	**300**	**500**	**700**	**1200**
	Depth 800 mm			
Cat. no.	**–**	**LVS03589**	**LVS03589**	**–**
Characteristics	▪ It is mandatory only when the horizontal LGYE 6300 busbar is inside the column.			

Mounting				
				
Width (mm)	**300**	**500**	**700**	**1200**
	Depth 800 mm			
Cat. no.	**–**	**–**	**–**	**LVS04631**

Mounting	Lifting bar
	 PD3917295.eps **⚠ WARNING** **HAZARD OF DROPPING** ● Use strong slings with a valid use-by date when lifting with cranes. ● Attach the slings to the 4 lifting rings of the lifting bar of the cubicles. ● Secure the plinth of floor standing enclosure using the fasteners. **Failure to follow these instructions can result in death, serious injury, or equipment damage.**
Cat. no.	**NSYSFTB16**
Characteristics	▪ Set of bars for lifting and transporting enclosures suites. ▪ They are fixed to the structure of the enclosure, in the axis of the uprights. ▪ Material: Steel.

F

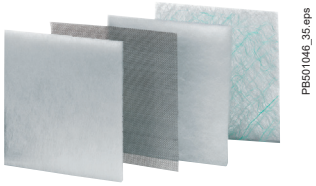
Accessories

Ventilation accessories

Others

Forced-air ventilation		560 m³/hr	850 m³/hr
			
Cat. no.		**NSYCVF560M230PF**	**NSYCVF850M230PF**
Unimpeded throughput via filter (m³/hr)	50 Hz	562	838
	60 Hz	586	803
Throughput via outlet grill (m³/hr)	50 Hz	473	718
	60 Hz	477	568
Power drawn (W) (max. intensity (A))		68/85 (0.52/0.370)	150/195 (0.65/0.85)
Noise level (dB (A))		59/59	76/75
External dimensions (cutting)		336 x 316 x 161 (291 x 291)	336 x 316 x 162 (291 x 291)
Weight (kg)		3.2	4.1
Operating temperature		-15...+60 °C	-15...+60 °C

Outlet grill		
Cat. no.	**NSYCAG291LPF**	**NSYCAG291LPF**

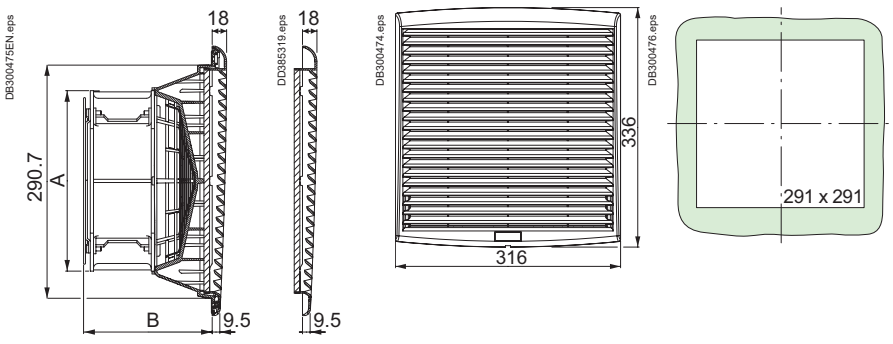
Filters for outlet grill		
		
G2 M1 standard filters	**NSYCAF291**	**NSYCAF291**
G3 M1 fine filters	**NSYCAF291T**	**NSYCAF291T**
Characteristics	Set of 5 (for replacement) Synthetic filters	

Note: For other usage voltage like 50V or 110V, see Universal Enclosures catalog, cat. no. UEMKCAT001EN and UEMKCAT002EN.

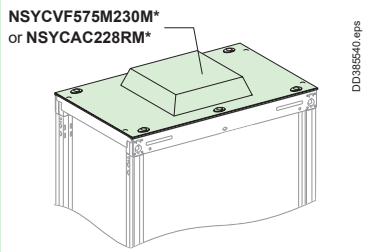
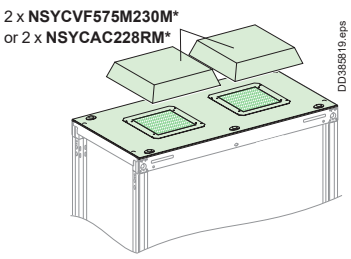
Dimensions

NSYCVF560M230PF - NSYCVF850M230PF

A	B	Cat. no.
225	160.5	**NSYCVF560M230PF**
280	192	**NSYCVF850M230PF**



Others

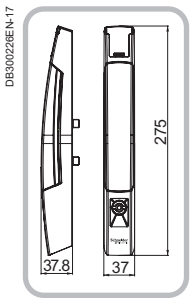
Roof ventilation	Width 500 and 700	Width 1200
		
Forced ventilation top hood with fan		
Catalog numbers	**NSYCVF575M230MF** (RAL7035 Grey) / **NSYCVF575M230MB** (RAL9003 White)	
Characteristics	**Fan characteristics** ▪ Power: 575 W ▪ Input voltage: 230 V ▪ Throughput via outlet grill: □ with 1 outlet grill: 350 m^3/hr □ Free with filter: 575 m^3/hr □ Finishing parts: painted with epoxy-polyester resin ▪ Noise level: 64 dB.	
Natural ventilation top hood without fan		
Catalog numbers	**NSYCAC228RMF** (RAL7035 Grey) / **NSYCAC228RMB** (RAL9003 White)	
Characteristics	▪ Material: steel ▪ Finishing parts: painted with epoxy-polyester resin ▪ IP54 ▪ Fixing to the top by means of caged nuts and special screws	
Air-flow cross section = 304 cm^2 without electrical fan		2 x 304 cm^2

F

Others

Locking system



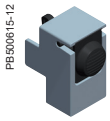


Characteristics	Handle for shape inserts and cylindrical barrels
	Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
Material	Handle: polyamide 6 with 30 % fibreglass, RAL 9005 colour
Mechanical protection rating	IK10
Fire resistance	650°C
Supply	Standard handle and fixing elements (insert not included)
References	
	NSYSFNHS1

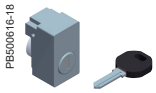
Accessories



Shape inserts



Push button



Cylindrical barrels

Shape inserts	References
6-mm square insert	**NSYINS61**
7-mm square insert	**NSYINS71**
8-mm square insert	**NSYINS81**
6.5-mm triangular insert	**NSYINT61**
7-mm triangular insert	**NSYINT71**
8-mm triangular insert	**NSYINT81**
9-mm triangular insert	**NSYINT91**
3-mm double-bar insert	**NSYINDB31**
5-mm double-bar insert	**NSYINDB51**

Push button	Reference
Push button	**NSYINPULS1**

Cylindrical barrels	References
405E key lock	**NSYIN405E1**
421E key lock	**NSYIN421E1**
455 key lock	**NSYIN4551**
1242E key lock	**NSYIN1242E1**
2131A key lock	**NSYIN2131A1**
2132A key lock	**NSYIN2132A1**
2433A key lock	**NSYIN2433A1**
3113A key lock	**NSYIN3113A1**
EDF1300 key lock	**NSYINF1301**
Michelin 8133 keyless lock	**NSYINICHEL8131**
Michelin 8376 keyless lock	**NSYINICHEL8371**
E1 keyless lock	**NSYINE11**

Linergy Distribution Systems

Contents

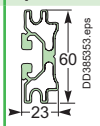
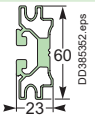
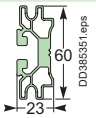
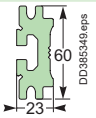
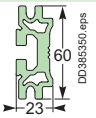
Power busbars G-2

Horizontal profiles LGYE up to 6300 A G-2
Lateral profiles LGYE up to 6300 A G-4
Accessories G-6

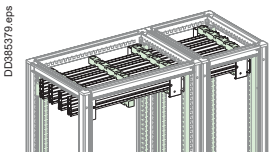
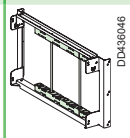
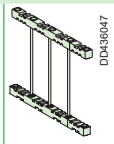
Linergy LGYE
Horizontal profiles up to 6300 A

Power busbars

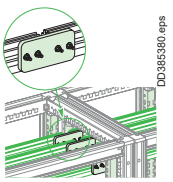
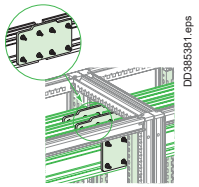
Linergy LGYE profiles

Installation		Up to 1600 A				
Linergy profiles						
		630 A	800 A	1000 A	1250 A	1600 A
Permissible current for an ambient temperature of 35 °C around the switchboard (1)	IP < 31	630 A	800 A	1000 A	1250 A	1650 A
	IP > 31	530 A	680 A	850 A	1050 A	1480 A
Number of profiles per phase		1				
Total number of vertical modules (50 mm)		3				
Catalog numbers	960 mm	–				
	1160 mm	–				
	1360 mm	–				
	1690 mm	–				
	2000 mm	LVS04560	LVS04561	LVS04562	LVS04563	LVS04564

Busbar supports

Installation			Up to 6300 A	
				
			Fixed support **LVS04660**	Free support **LVS04675**
Characteristics			Two fixed supports for 500 mm, 700 mm, and 1200 mm wide PrismaSeT 6300 frameworks and one fixed support for 300 mm wide PrismaSeT 6300 frameworks are mandatory. If more supports are required, use free supports.	
In cubicle: PrismaSeT 6300 W1200 or W700 busbar supports	Number of supports depending on Icw (KA rms/1 s)	≤ 15	2	
		≤ 25	2	
		≤ 30	2	
		≤ 40	–	2
		≤ 50	–	2
		≤ 60	–	2 + 1
		≤ 65	–	2 + 1
		≤ 75	–	2 + 1
		≤ 85	–	2 + 1
		≤ 100	–	
In cubicle: PrismaSeT 6300 W500	Number of supports depending on Icw (kA rms/1 s)	≤ 50	1	
		≤ 85	1 + 1	
		≤ 100	–	
	Catalog numbers	Fixed support	LVS04664	
		Free support	LVS04662	

Joints

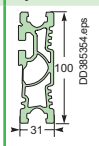
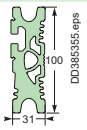
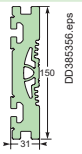
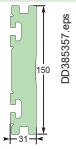
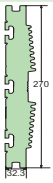
Installation		Up to 1600 A				
		630 A	800 A	1000 A	1250 A	1600 A
Linergy profiles						
Catalog numbers		3 x LVS04620 (3P) 4 x LVS04620 + LVS04624 (4P)				
Note		Reference LVS04624 is compulsory when installing jointed Linergy LGYE 4P busbars and must be fitted where the frames meet. When installed at the bottom of a cubicle, the busbar must be partitioned.				

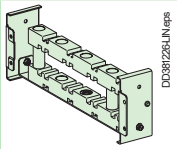
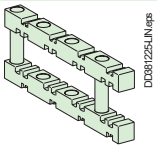
(1) With forced ventilation.
(2) With natural ventilation.
(3) Without form 2 partitioning of horizontal busbars.
(4) **LVS04671**: Mounting hardware for bars or profile H = 100 or 120 mm. Contains 2 threaded rods and 4 insulators.
(5) **LVS04646**: Mounting hardware for bars or profile H = 150 mm. Contains 2 threaded rods and 2 insulators. Note: For accessories > page G-6.

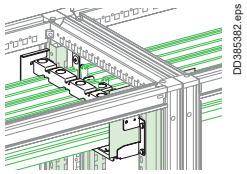
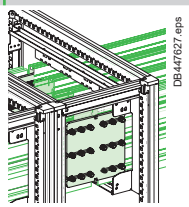
Note: Busbar supports are specified as “fixed + free.” The first number indicates fixed supports, and the second number indicates free supports.

Linergy LGYE
Horizontal profiles up to 6300 A

Power busbars

	Up to 4000 A				Up to 6300 A
					
	2000 A	**2500 A**	**3200 A**	**4000 A**	**6300 A**
	2000 A	2440 A	3200 A	3620 A	5200 A [2]
	1650 A	2100 A	2800 A	3350 A	6300 A [1]
	1				1
	3		4		7 [3]
	–				**LVS04569**
	–				**LVS04580**
	–				**LVS04581**
	–				**LVS04582**
	LVS04565	**LVS04566**	**LVS04567**	**LVS04568**	–

		
	Fixed support **LVS04664**	Free support **LVS04662**
	2	
	2 + 3	
	1 + 1	
	LVS04664 + LVS04671 [4] **(hardware)**	**LVS04664 + LVS04646** [5] **(hardware)**
	LVS04662 + LVS04671 [4] **(hardware)**	**LVS04662 + LVS04646** [5] **(hardware)**

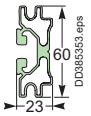
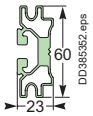
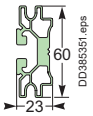
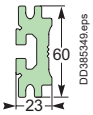
	Up to 4000 A				Up to 6300 A
	2000 A	**2500 A**	**3200 A**	**4000 A**	**6300 A**
					
	3 x LVS04621 (3P) 4 x LVS04621 + LVS04624 (4P)		**3 x LVS04623 (3P) 4 x LVS04623 + LVS04624 (4P)**		**3 x LVS04625 (3P) 4 x LVS04625 (4P)**
					Busbar should be partitioned properly and linked using LVS04625 with torque (28 Nm). Sold with shrinkable nuts M8 + insert studs

G

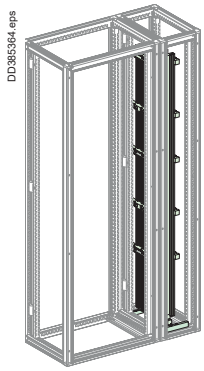
Linergy LGYE
Lateral profiles up to 6300 A

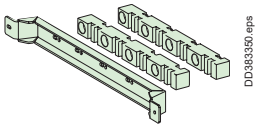
Power busbars

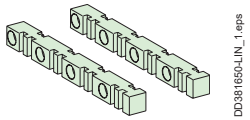
Linergy LGYE profiles

		Up to 6300 A			
In PrismaSeT 6300 duct		**W300**			
Linergy profile, 2000 mm length for all the ratings except 6300 A: 1625 mm length					
		630 A	**800 A**	**1000 A**	**1250 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	530 A	680 A	850 A	1050 A
	IP > 31	630 A	800 A	1000 A	1250 A
Length to cut for side mounting		1675 mm			
Number of profiles per phase		1			
Cat. no.		**LVS04560**	**LVS04561**	**LVS04562**	**LVS04563**
Width of duct		**300 mm**			

Busbar supports







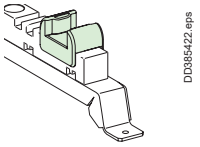
		Fixed support for current ratings less than 4000A: LVS04649	Fixed Support for 4000A and above 6300A: LVS04654	Free support up to 4000A: LVS04678
Number depending on Icw (kA rms/1 s)	≤ 30	3 (2)		
	≤ 40	–	3 (2) +2 (3)	
	≤ 50	–		3 (2) +2 (3)
	≤ 60	–		3 (2) +2 (3)
	≤ 65	–		
	≤ 75	–		
	≤ 85	–		
	≤ 100	–		

Cat. no. of supports depending on distance between bars and duct depth	Duct 115 mm = HBB up to 4000 A distance between bars	W300, D800	**LVS04649 (fixed) + LVS04678 (free) + LVS04648 (bottom)** (1)
	Duct 115 mm = HBB up to 6300 A distance between bars	W500, D800	**LVS04654 (fixed) + LVS04655 (bottom)**

(1) If using a 100 x 10 bars, add a pack of screws ref. LVS04671 for each fixed support and free support, (2) for fixed support, (3) for free support.

Note: * without forced cooling. ** with forced cooling. *** for bottom LGYE HBB connection.

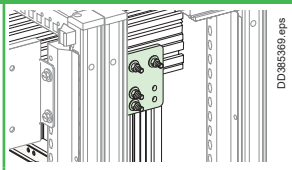
Wedging busbars in position



Wedge fitted on bottom support

Characteristics	The bottom support is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.
Cat. no.	**LVS04658 (pack of 12 stops)**

Connections to the Linergy LGYE horizontal busbar



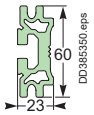
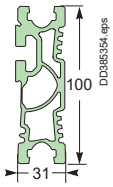
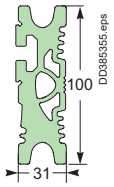
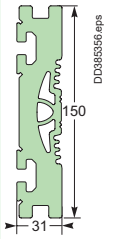
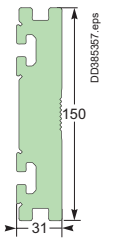
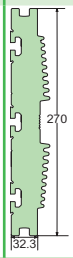
2000/2500 A

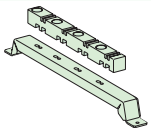
Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.
Cat. no.	**LVS04604 (short connection)** **LVS04605 (long connection)**

Note: Busbar supports are specified as “fixed + free.” The first number indicates fixed supports, and the second number indicates free supports.

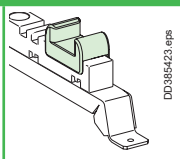
Linergy LGYE
Lateral profiles up to 6300 A

Power busbars

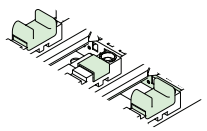
						W500
						
	1600 A	**2000 A**	**2500 A**	**3200 A**	**4000 A**	**6300 A**
	1480 A	1650 A	2100 A	2800 A	3620	5200*
	1650 A	2000 A	2440 A	3200 A	3350	6300**
				1625 mm		1690 mm
	LVS04564	**LVS04565**	**LVS04566**	**LVS04509**	**LVS04510**	**LVS04582**
						500 mm



			Bottom Support for current ratings less than 4000A: NSYAS500		Bottom Support for 4000A and above 6300A: LVS04655	
						2 (2) +2 (3)
		3 (2)				2 (2) +2 (3)
		3 (2)				2 (2) +2 (3)
				3 (2)		2 (2) +2 (3)
	3 (2) +2 (3)					2 (2) +2 (3)
	3 (2) +4 (3)			3 (2) +2 (3)		2 (2) +2 (3)
	3 (2) +4 (3)					2 (2) +3 (3)
			3 (2) +6 (3)			2 (2) +3 (3)

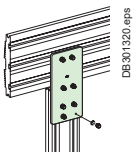


Wedge fitted on bottom support

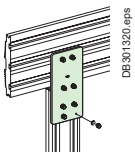


Wedge fitted on bottom support

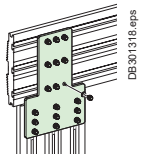
		LVS04659 (pack of 12 replacement stops)				**LVS04655 (Included with busbar support kit)**



2000/2500 A



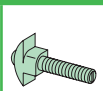
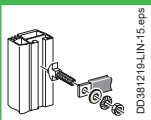
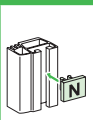
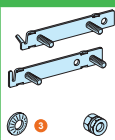
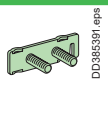
3200/4000 A



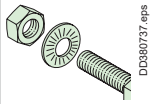
6300 A

	3*LVS04639 (3P) 4*LVS04639 (4P)	**3*LVS04622 (3P) 4*LVS04622 (4P)**	**3*LVS04627 (3P) 4*LVS04627 (4P)**

Accessories

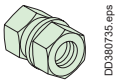
	 DD385390.eps		 DD381219-LIN-15.eps				 DD381222-LIN-10.eps	 DD385488.eps	 DD385391.eps	 DD385392.eps
	Linergy connection hardware		Steel flat washers			Brass flat washers	Markers	Screwplate		
Cat. no.	**LVS04766**	**LVS04767**	**LVS04772**	**LVS04773**	**LVS04774**	**LVS04775**	**LVS04794**	**LVS01130**	**LVS04768**	**LVS04769**
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 mm² 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

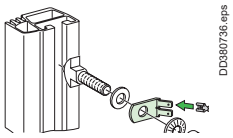
Linergy BS, 20 bolts class 8.8	Characteristics		Set of 20 bolts + 20 nuts + 40 contact washers.
	Catalog numbers	M8 x 20	**LVS04782**
		M8 x 25	**LVS04783**
		M8 x 30	**LVS04784**
		M8 x 35	**LVS04785**
		M8 x 40	**LVS04786**
		M8 x 45	**LVS04787**
		M8 x 50	**LVS04788**

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.
	Catalog numbers	**LVS04759**

Voltage tap-offs


DD380736.eps

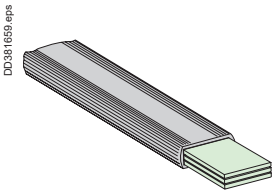
20 Voltage tap-offs M10 pour 2 clips 6.35	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. LVS04775) between the busbar and the lug.
	Catalog numbers	**LVS04229**

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.

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 Prisma**SeT** 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 (1)	**LVS04743**
NSX400	32 x 5	**LVS04751**
NSX630	32 x 8 (2)	**LVS04753**
NSX100 ELCB	20 x 2	**LVS04742**
NSX160/250 ELCB	20 x 3 (1)	**LVS04743**
NSX400 ELCB	32 x 5	**LVS04751**
NSX630 ELCB	32 x 8 (2)	**LVS04753**
INS125/160	20 x 2	**LVS04742**
INS250	20 x 3	**LVS04743**
INS400	32 x 5	**LVS04751**
INS630	32 x 6	**LVS04752**
FM 200 A Linergy	20 x 3	**LVS04743**
FC 3P Linergy	32 x 8 (2) (3) (4)	**LVS04753**
FC 4P Linergy	32 x 8 (2) (3) (4)	**LVS04753**
Fupact 250	24 x 5	**LVS04746**
Fupact 400	32 x 5	**LVS04751**
Fupact 630	32 x 8 (2)	**LVS04753**
Easypact CVS100	20 x 2	**LVS04742**
Easypact CVS160/250	20 x 3 (1)	**LVS04743**
Easypact CVS400	32 x 5	**LVS04751**
Easypact CVS630	32 x 8 (2)	**LVS04753**

(1) To connect a ComPacT NSX250 and NSX150 ELCB to Linergy BW busbars, use a 24 x 5 mm flexible bar (**LVS04746**).
(2) The insulated flexible bars is not compatible with Form 2 partitioning (**LVS04922**). In this case, use the form 2 restoration kit **LVS04924**.
(3) In case of use of 32 x 6 insulated flexible bar, please contact Schneider Electric.
(4) Max length 500 mm per connection.

Functional Partitioning

Contents

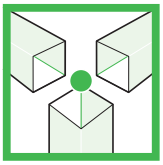
Partitioning H-2

Form 1 partitioning H-3
Form 2 partitioning H-4
Form 3b partitioning H-6
Form 4 partitioning H-7

PrismaSeT 6300 functional system

The forms according to IEC 61439-1&2

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



In most installations, PrismaSeT 6300 cubicles do not require partitioning. In this case, the switchboard is a Form 1.

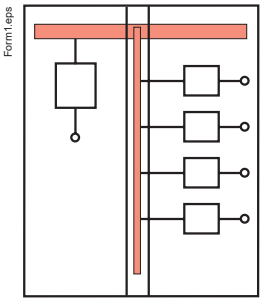
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

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

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

What is more, PrismaSeT 6300 offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a and 4b electrical switchboards. Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-1&2.

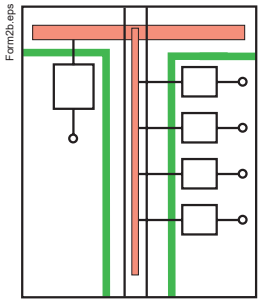
Form 1



In most installations, PrismaSeT 6300 cubicles do not require partitioning.
In this case, the switchboard is a Form 1.

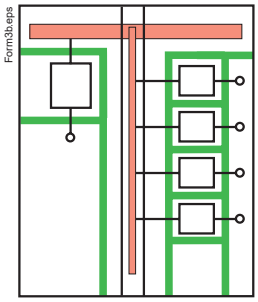
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

Form 2b



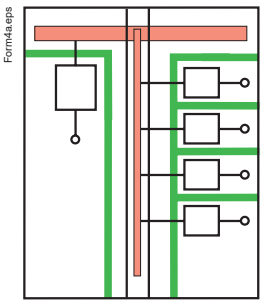
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

Form 3b *



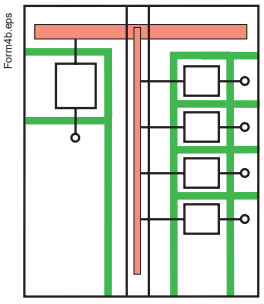
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

Form 4a *



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

Form 4b *



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

Note: * Is not included from 4000A to 6300A.

Presentation

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

In most installations, Prisma**SeT** 6300 cubicles do not require partitioning. In this case, the switchboard is a Form 1.

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

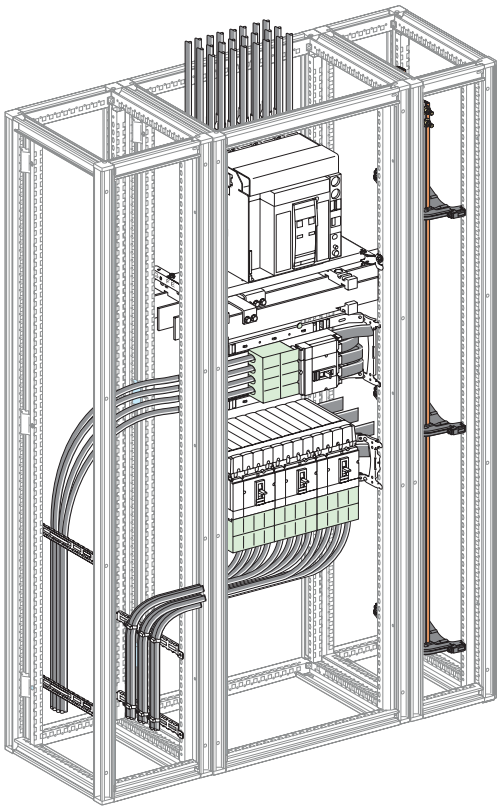
The protection of life and property is a standard feature due to:

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

What is more, Prisma**SeT** 6300 offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a & 4b electrical switchboards.

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

DD385393.eps



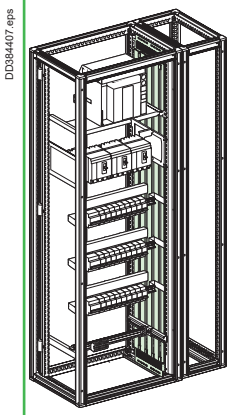
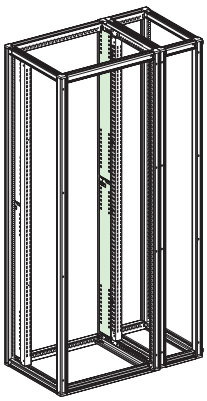
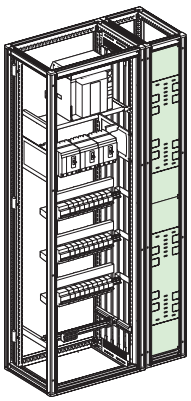
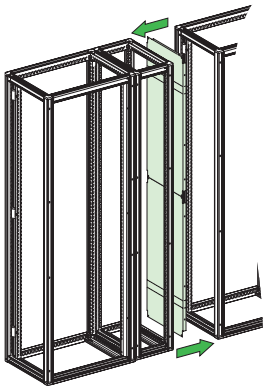
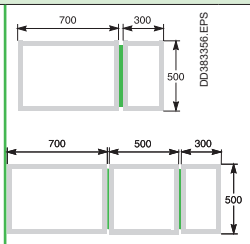
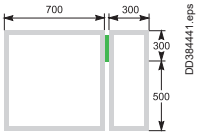
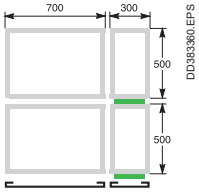
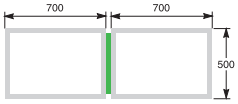
The protection of life and property is ensured by the systematic installation of terminal shields on ComPacT NSX circuit breakers and on ComPacT INS and INV switch-disconnectors (see the pages on the functional units).

H

Form 2 partitioning

Separation of busbars from the functional units:
- protection against contact with live parts upstream of the outgoing circuits
- protection against penetration of foreign solid bodies.

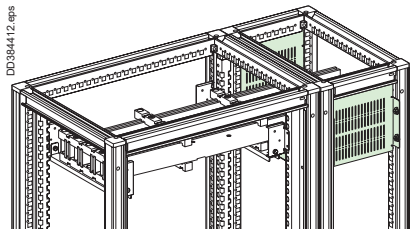
Lateral partitioning

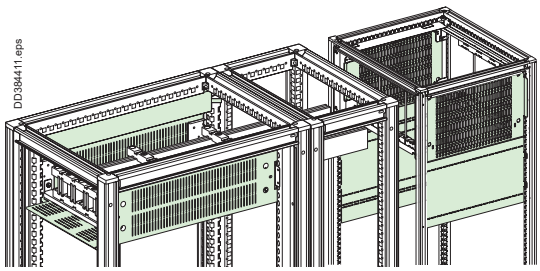
	 DD384407.eps		 DD384408.eps	 DD384409.eps	 DD384410.eps
Schemes					
	 DD383356.EPS		 DD384441.eps	 DD383360.EPS	 DD383362.EPS
Characteristics	▪ Vertical barrier made of insulating slats. ▪ Can be installed on both sides of Linergy and flat busbars. ▪ The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm², while maintaining the degree of protection IP2X compliance with standard IEC 60695.2.1 concerning withstand to fire.	▪ This kit enables passage of the connection between a device > 1600 A (NW, INS) and lateral vertical busbars. ▪ It is made up of an insulated plate (six modules H 300 mm) that can be cut as required, supplied with supports and the necessary hardware.	▪ For the PrismaSeT 6300 system switchboards 800 mm depth (500 + 300), a partitioning extension for 300 mm depth is required.	▪ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends. ▪ Rear protection, a barrier is required at the rear of the busbar compartment in cubicles that are 800, 1000 and 1300 mm deep.	▪ Metal partition, used to separate two adjacent cubicles. ▪ It is made up of two panels, each 850 mm high. ▪ The top and bottom ends have knock-outs for horizontal busbars. ▪ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.
Cat. no.	**D500: LVS06545**	**LVS04924**	**D800: LVS06543**	**W300: LVS06540** **W500: LVS04990**	**D500: LVS06555** **D800: LVS04911 + LVS06543** **D800: LVS04979** (1)

(1) For W1200 and W500 enclosures.

Form partitioning

Partitioning of horizontal busbars



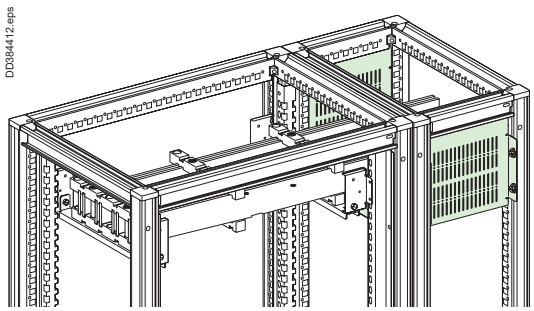


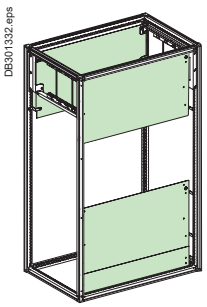
LVS04971

	W300		W700	
Designation	▪ Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard. ▪ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle. ▪ The space required for the busbars is not increased.			
For Depth	D500	D800	D500	D800
Cat. no. for 3M busbar	**LVS06560**	**LVS06563**	**LVS06570**	**LVS06570**
Cat. no. for 4M busbar	**LVS06568**	**LVS06568**	**LVS06567**	**LVS06567**
Cat. no. for 8M busbar	**–**	**LVS04969**	**–**	**LVS04971** (1)

(1) Depending on circuit breaker connection to horizontal or vertical busbar, use the equivalent parts. For more details please refer to the detailed Instruction Sheet.
Note: when the busbars are at the bottom of the cubicle, gland plates are mandatory.

Partitioning of horizontal busbars





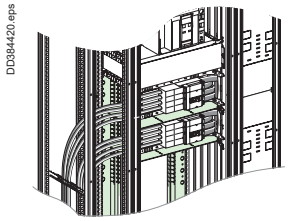
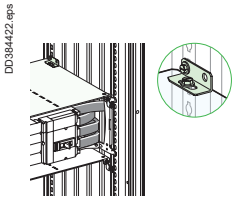
	W500		W1200	
Designation	▪ Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard. ▪ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle. ▪ The space required for the busbars is not increased.		▪ Set of four barriers (front and rear). ▪ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle and to partition the MTZ3 copper connections. ▪ The space required for the busbars is not increased.	
For Depth	D500	D800	D500	D800
Cat. no. for 8M busbar	**–**	**LVS04970**	**–**	**LVS04972**

H

Form 3b partitioning

Separation of busbars from the functional units and separation of all functional units from one another.
Separation of the terminals for external conductors from the functional units, but not from each other.

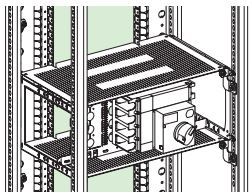
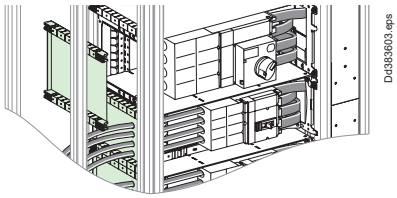
- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

	Front connection		
			
	Horizontal metal partition, W650 mm	**Rear support for partitions, W650 mm**	**6 universal angle brackets**
Characteristics	▪ A horizontal metal partition can be used to physically separate functional units from one another.	▪ It is fixed at the rear by a support (two uprights) secured to the framework (500 mm deep) or to the intermediate uprights (800 mm deep frameworks).	▪ A set of brackets can be used to install partial Form 3 partitioning in the cubicle. ▪ It does not take up any useful space in the switchboard.
Cat. no.	**LVS04901**	**LVS04943**	**LVS03583**

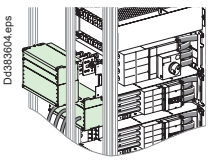
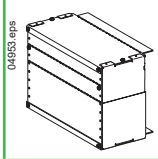
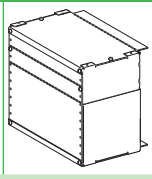
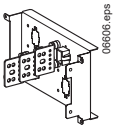
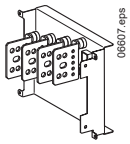
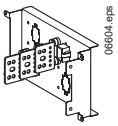
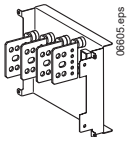
Form 4 partitioning

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

Form 4a partition

	For front connection		
	 DD386389.eps	 Dd383603.eps	
	Form 4a backplate (one cat. no. per cubicle)	**Form 4a gland plate**	
Characteristics	▪ A backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks.	▪ A plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.	
		3 or 4 modules	5 or 6 modules
Cat. no.	**LVS04946**	**LVS04951**	**LVS04952**

Form 4b partition

 Dd383604.eps	 04953.eps	 04954.eps	 06606.eps	 06607.eps	 06604.eps	 06605.eps	
			Connection transfer assembly, 3 to 5 modules, 250 A		**Connection transfer assembly, 4 to 6 modules, 630 A**		
Characteristics	▪ A cover with metallic gland plates that can be easily cut out on the side and bottom. It is available in two heights:		▪ Transfer assembly without connection to simplified the cable installation.		▪ Transfer assembly without connection to simplified the cable installation.		
	3 to 5 modules	4 to 6 modules	3P	4P	3P	4P	
Cat. no.	**LVS06600**	**LVS06601**	**LVS06606**	**LVS06604**	**LVS06607**	**LVS06605**	

H

Additional Information

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Designing vertical busbars - Linergy LGY I-4
Designing vertical busbars - Linergy LGYE I-5
Drawout MasterPact 40-63 I-6
Connection of busbar trunking I-7

Spare parts

SE Green Signature for RAL 7035 Enclosure

Plain sticker

DB301336.eps



PrismaSeT 6300 - SE Green signature for W300	**NSYSFSEGS300**
PrismaSeT 6300 - SE Green signature for W500	**NSYSFSEGS500**
PrismaSeT 6300 - SE Green signature for W700	**NSYSFSEGS700**
PrismaSeT 6300 - SE Green signature for W1200	**NSYSFSEGS1200**

Designing horizontal busbars
Linergy LGYE

Electrical characteristics

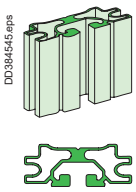
Permissible current and selection of Linergy LGYE busbars
Up to 6300 A

Linergy LGYE section

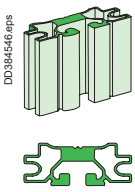
Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGYE 630	680	580	650	550	630	530	590	500	550	470	520	▪
Linergy LGYE 800	860	740	830	710	800	680	750	630	700	600	660	▪
Linergy LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	▪
Linergy LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	▪
Linergy LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	▪
Linergy LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	▪
Linergy LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	▪
Linergy LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	▪
Linergy LGYE 4000	3800	3510	3710	3430	3620	3350	3450	3180	3280	3020	3120	▪
Linergy LGYE 6300 *	5800	5490	5680	5370	5550	5250	5410	5120	5270	4990	5130	4860
Linergy LGYE 6300 (Forced Ventilation)	▪	6300	▪	6300	▪	6300	▪	6300	▪	**	▪	**

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

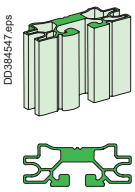
Note: * No need to have fan for 500 and 300 mm cable duct.
** Ask to Schneider Electric.



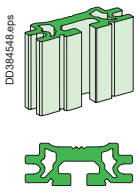
Section 630 A.
Cat. No. LVS04560.



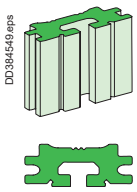
Section 800 A.
Cat. No. LVS04561.



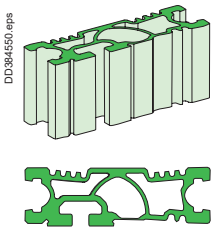
Section 1000 A.
Cat. No. LVS04562.



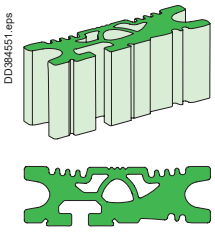
Section 1250 A.
Cat. No. LVS04563.



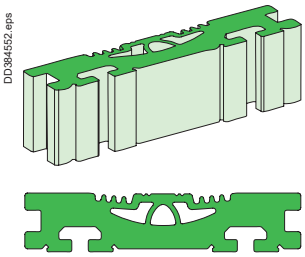
Section 1600 A.
Cat. No. LVS04564.



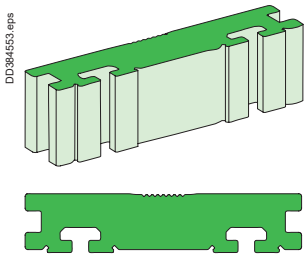
Section 2000 A.
Cat. No. LVS04565.



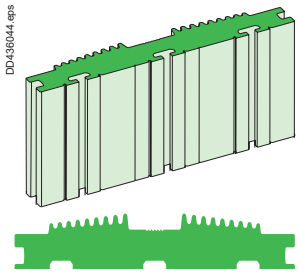
Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.



Section 4000 A.
Cat. No. LVS04568.



Section 6300 A.
Cat. No. LVS04582.

Designing vertical busbars
Linergy LGY

Permissible current and selection of Linergy LGY busbars

The goal is to optimise busbar size according to the installation and operating criteria.

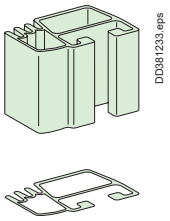
Up to 3200 A

Linergy LGY section

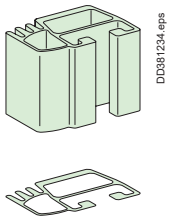
Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31
Linergy LGY 630	750	680	710	630	680	590	630	550	590	530	550	▪
Linergy LGY 800	920	840	880	800	840	760	800	720	760	680	720	▪
Linergy LGY 1000	1140	1040	1090	990	1040	950	990	900	950	850	900	▪
Linergy LGY 1250	1410	1290	1350	1230	1290	1170	1230	1100	1170	1050	1100	▪
Linergy LGY 1600	1800	1650	1720	1580	1650	1480	1580	1390	1480	1320	1390	▪
Linergy LGY 2000 (2 x 1000)	2200	2000	2100	1900	2000	1820	1900	1720	1820	1620	1720	▪
Linergy LGY 2500 (2 x 1250)	2740	2500	2620	2380	2500	2260	2380	2120	2260	2020	2120	▪
Linergy LGY 3200 (2 x 1600)	3480	3200	3340	3060	3200	2920	3060	2780	2920	2640	2780	▪

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

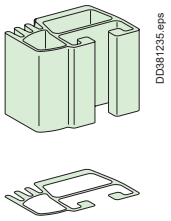
Example: A Linergy LGY channelled bar can be used for a 1650 A current with an IP ⩽ 31 and an ambient temperature around the switchboard of 35 °C.



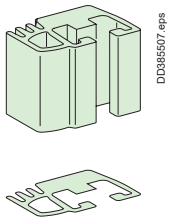
Section 630 A.
Cat. No. LVS04502.



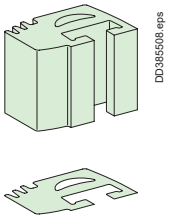
Section 800 A.
Cat. No. LVS04503.



Section 1000 A.
Cat. No. LVS04504.



Section 1250 A.
Cat. No. LVS04505.



Section 1600 A.
Cat. No. LVS04506.

Note: The values indicated above have been validated for Prisma**SeT** 6300 switchboards.

Designing vertical busbars
Linergy LGYE

Electrical characteristics

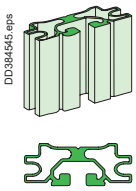
Permissible current and selection of Linergy LGYE busbars

Up to 6300 A

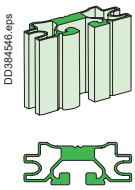
Linergy LGYE section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGYE 630	680	580	650	550	630	530	590	500	550	470	520	▪
Linergy LGYE 800	860	740	830	710	800	680	750	630	700	600	660	▪
Linergy LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	▪
Linergy LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	▪
Linergy LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	▪
Linergy LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	▪
Linergy LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	▪
Linergy LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	▪
Linergy LGYE 4000	3800	3510	3710	3430	3620	3350	3450	3180	3280	3020	3120	▪
Linergy LGYE 6000	5800	5490	5680	5370	5550	5250	5410	5120	5270	4990	5130	4860

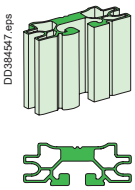
▪ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



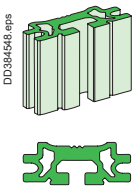
Section 630 A.
Cat. No. LVS04560.



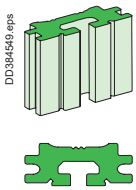
Section 800 A.
Cat. No. LVS04561.



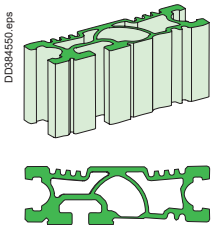
Section 1000 A.
Cat. No. LVS04562.



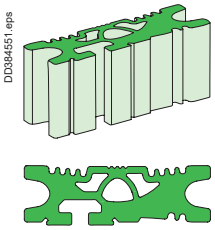
Section 1250 A.
Cat. No. LVS04563.



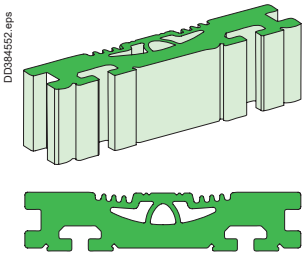
Section 1600 A.
Cat. No. LVS04564.



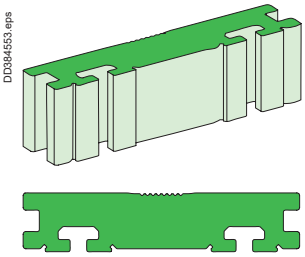
Section 2000 A.
Cat. No. LVS04565.



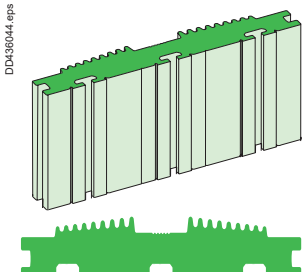
Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.



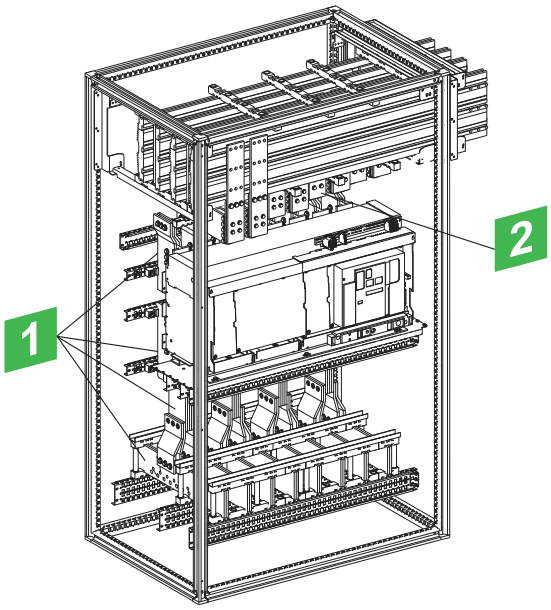
Section 4000 A.
Cat. No. LVS04568.



Section 6300 A.
Cat. No. LVS04582.

Designing connections between a device and busbars
Dedicated cubicle
Drawout MasterPacT 40-63

Dedicated cubicle
Linergy LGYE
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*
MTZ3 63/ NW63	Size per phase	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	
	I (A)	5450	6300	5325	6300	5200	6300	5025	6300	4825	6300	4650	6300
MTZ3 50/ NW50	Size per phase	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	
	I (A)	5000	5000	5000	5000	5000	5000	5000	5000	4825	5000	4650	5000
MTZ3 40/ NW40b	Size per phase	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	
	I (A)	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000

Note: * Solution for IP>31 is with forced cooling. Please contact Schneider Electric for details.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

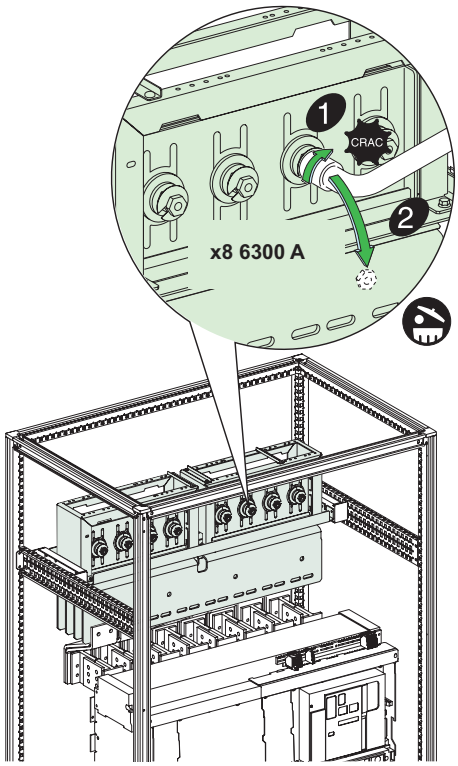
Device	NW40b	NW50	NW63
Derating coefficient K	1.0	0.98	0.95

Note: The values indicated above have been validated for PrismaSeT 6300 switchboards.

Practical information

PrismaSeT 6300 switchboards come equipped with a special interface that allows them to be directly connected to Canalis KT trunking.
The electrical connection between the Canalis KT trunking and the PrismaSeT 6300 switchboard is just as easy to carry out as jointing between two busbar trunking sections.
The Canalis KT interface is totally integrated in the PrismaSeT 6300 switchboard volume.
It comprises a Canalis KT joint block and interface/circuit breaker connection terminals.

DD383919.eps



Trunking connection via the top

- Dismantle the roof.
- Cut out a passage for the busbar trunking.
- Adjust the guides according to the KT width that will be connected.
- Unscrew the junction block screws.
- Ensure that the busbar trunking length to be connected to the switchboard is correctly supported and that it is not resting on the interface.
- Lower the element until it is in contact with the interface frame, without bearing on it.
- Tighten the junction torque nuts. When the head breaks, the torque of 60 Nm has
- been reached.

⚠ In certain cases, it is recommended to only tighten the 2 middle nuts to 60 Nm and the 2 outer nuts to 10 Nm.

- A red plastic washer that is ejected when the head breaks provides visual evidence that the joint tightening operation has been carried out correctly.
- For dismantling or maintenance operations, a second head is available on the nut and can be retightened using a conventional torque wrench. The recommended tightening torque is then 60 Nm.
- Reassemble the roof.

Sealing kit

- In order to retain the original IP index, use the roof sealing kit ordered with the busbar trunking. This kit guarantees an IP52 degree of protection at the trunking passage.
- The kit is installed by cutting out the roof of the PrismaSeT 6300 switchboard.

This cut-out, which is the same dimension for all Canalis KT busbar trunking ratings, is made using the template delivered with the sealing kit.

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