



# PrismaSeT 6300

**Catalog 2024**  
Cubicles up to 6300 A

**Version 04**



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**Schneider**  
Electric

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# Overview



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B



# Prisma**SeT** - Reliable, Easily connected

The new Prisma**SeT** 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 Prisma**SeT** 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 Com**PacT** 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.





# 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 damages 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.



B

- 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.

PB603874.ai

PB603877(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 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.



PB503771.eps

PB503772.eps

B



## Electrical characteristics

- Rated insulation level of main busbars: 1000 V
- Rated operational current  $I_e$ : 6300 A
- Rated peak withstand current  $I_{pk}$ : 220 kA
- Rated short-time withstand current  $I_{cw}$ : 100 kA rms/1 second
- Frequency: 50/60 Hz.



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



## 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.



# 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 PrismaSeT 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 PrismaSeT and Linergy mechanical and electrical components that have been subjected to the verification of original equipment manufacturer;
- mounted and wired by a panelbuilder in compliance with professional standards;
- subjected to the individual verification.

Schneider Electric makes available to the panelbuilder everything required to create tested PrismaSeT 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.





# Standards and Certifications





<b>Standards and tested switchboards</b>	<b>C-2</b>
Regional standardization systems	C-2
Standards types	C-3



# 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).

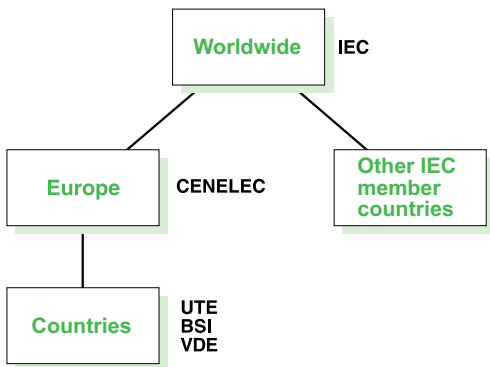
The object of the IEC is to promote international cooperation on all questions concerning standardisation in the electrical and electronic fields.

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

DD083872 eps



#### 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

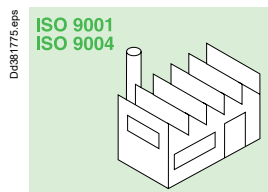


## Standards and tested switchboards

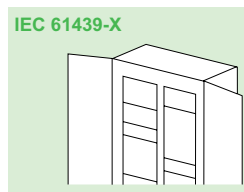
## The different types of standards

There are different types of standards, including:

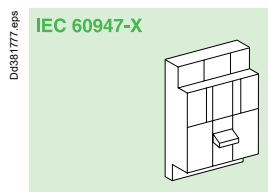
- management standards
- installation standards
- product standards.



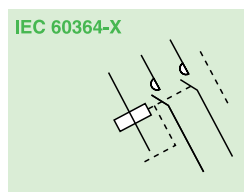
Design and manufacture.



Switchgear and controlgear assemblies.



Switchgear and controlgear.



Installation.

## Management standards

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

**ISO 9001:** Quality management systems - requirements. Used for certification audits.

**ISO 14004:** Environmental-management systems. General guidelines on the principles, systems and supporting techniques.

**ISO 14001:** Environmental-management systems.

Specification with guidance for use

- The majority of Schneider Electric development centres and factories are certified ISO 9001 and ISO 14001.

## Installation standards

The set of IEC 60364-X standards defines the main principles and rules on:

- determining general characteristics of installations
- protection
- selection and installation of equipment
- verification and maintenance of installations.

## Product standards

They apply to devices or assemblies and are aimed at ensuring correct operation and safety of the concerned products.

- standards on low-voltage switchgear and controlgear:

- IEC 60947-1: general rules
- IEC 60947-2: circuit breakers
- IEC 60947-3: switches and disconnectors
- IEC 60947-4: contactors
- IEC 62208: empty enclosures.

- standards on low-voltage switchgear and controlgear assemblies:

- IEC 61439-1: general rules
- IEC 61439-2: power switchgear and controlgear assemblies
- IEC 61439-3: distribution boards
- IEC 61439-4: assemblies for construction sites
- IEC 61439-5: assemblies for power distribution
- IEC 61439-6: busbar trunking systems.

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

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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



Selection guide

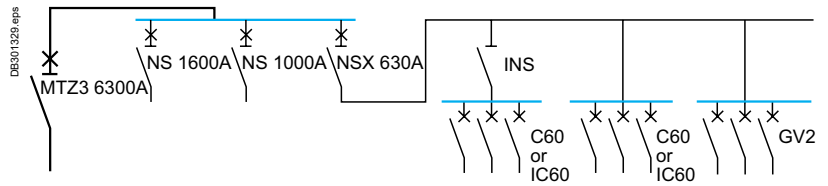
Select a cubicle configuration

D-2

D-2

D

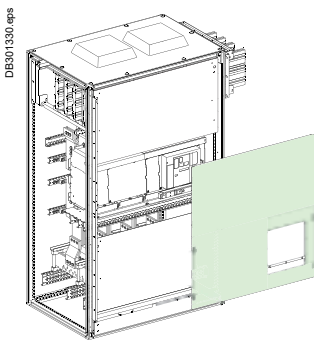
Starting with the electrical diagram:  
 IP54 switchboard



Install the incomer

**PrismaSeT 6300 Functional Units**

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



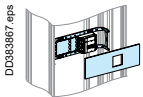
**Incoming Cables Connection**

Devices	Withdrawable device	
	<b>MTZ3 6300 4P</b>	
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	<b>LVS03509</b>	<b>LVS03509</b>
Front Plates	upstream	<b>LVS03708 [13]</b>
[No. of vertical modules]	with cut-out	<b>LVS03707 [12]</b>
	downstream	<b>LVS03708 [13]</b>
Cross rails required to support mounting plate and must be made connections	2 x set of <b>NSYSUCR90120</b> 2 x set of <b>NSYSUCR9080</b> 2 x set of <b>NSYSUCR40120</b> 1 x set of <b>NSYSUCR65120</b> 1 x set of <b>NSYSUCR6580</b> <b>LVS04631</b>	2 x set of <b>NSYSUCR9080</b> 2 x set of <b>NSYSUCR40120</b> 1 x set of <b>NSYSUCR65120</b> 1 x set of <b>NSYSUCR6580</b>
Support for cross rails and bars	3 x <b>LVS04678</b>	3 x <b>LVS04678</b>
Interface	-	3P <b>LVMZ1207</b> 4P <b>LVMZ1208</b>
Links on horizontal busbars Linergy LGYE 6300A	Must be made	Must be made

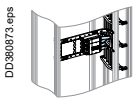
Install functional units up to 3200 A

**PrismaSeT P Functional Units**

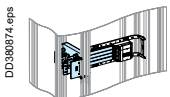
- 1 Installation



- 2 Lynergy LGY BB conn.



- 3 Connection with vertical BB must be made



See **PrismaSeT P** catalog (DESW024EN) to design the functional units up to 3200 A



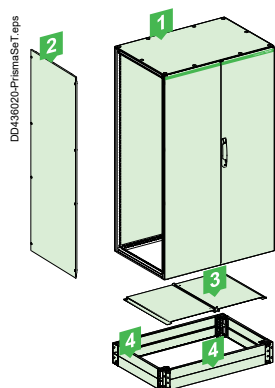
**Determine the size of the switchboard:**

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



Select the enclosures

### PrismaSeT 6300 cubicles

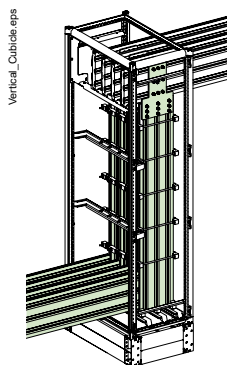


Switchboard 1 - Enclosure for the MTZ3 installation, W = 1200, D = 800

Mounting	Enclosures for front connection			
	300	500	700	1200
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)

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



### Circuit breakers

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	<b>E-3</b>
Dedicated cubicle - W=1200 Cables connection	E-3
Dedicated cubicle - W=1200 Canalis connection	E-4

E

# 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

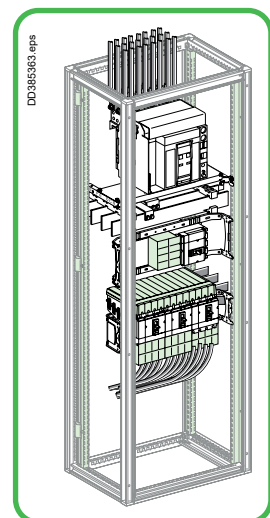


- FuPacT from 32 to 1250 A



- Acti9

Accessories



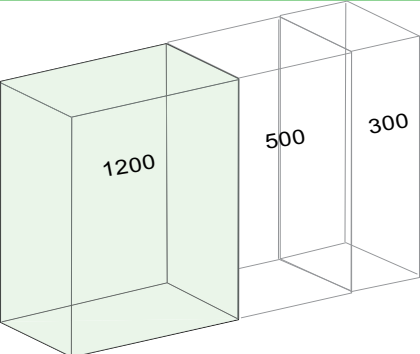
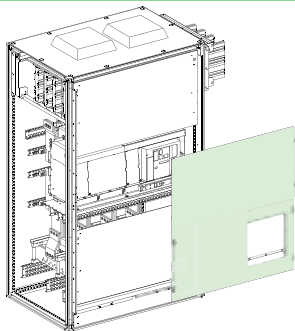
For more informations, see the catalog Prisma**SeT** P - DESW024EN.




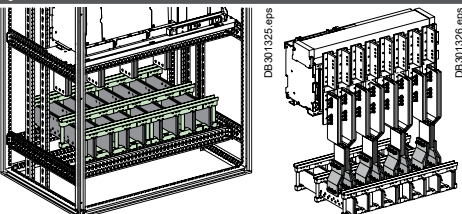
# MasterPacT MTZ3 40b to 63


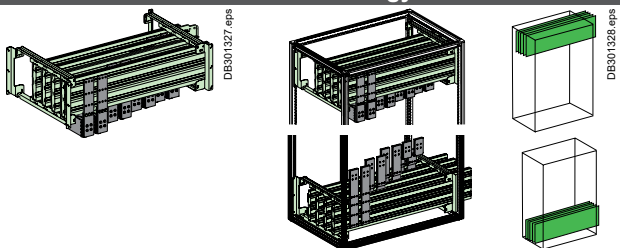
Dedicated cubicle - W=1200 Cables connection  
 Withdrawable

Circuit breakers

Mounting		Front connection	
			

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

Connection		Upstream on incomer	
			
<b>Devices</b>		<b>Withdrawable device</b>	
		<b>MTZ3 40-63</b>	
Type of terminals		Top & bottom rear vertical connections supplied with the device, needs to be replaced by <b>3 x set of 87233 for 3P device (12 pieces) or 4 x set of 87233 for 4P device (16 pieces) (1) (2)</b>	
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	
			
<b>Devices</b>		<b>Withdrawable device</b>	
		<b>MTZ3 40-63</b>	
Type of terminals		Top & bottom rear vertical connections supplied with the device, needs to be replaced by <b>3 x set of 87233 for 3P device (12 pieces) or 4 x set of 87233 for 4P device (16 pieces) (1) (2)</b>	
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) 3 x set of 87233 for 3P device (12 pieces) or 4 x set of 87233 for 4P device (16 pieces), represent the total required quantity for the replacement of both top and bottom device connections.  
 (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.

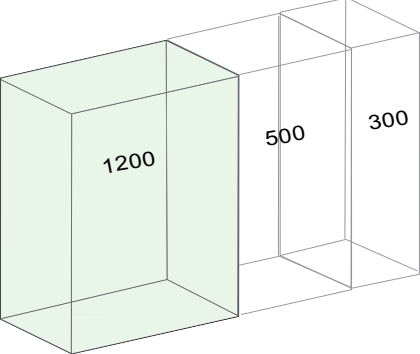
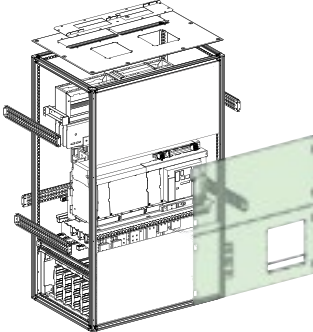



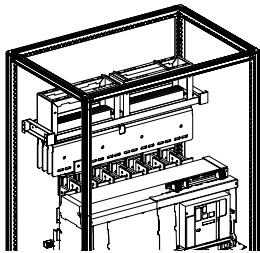
# MasterPacT MTZ3 40b to 63


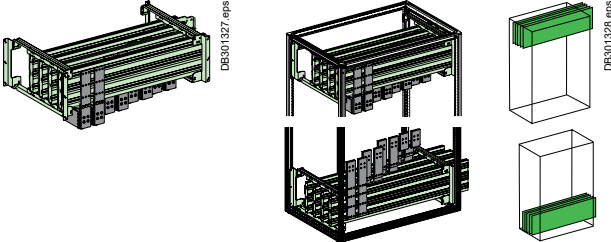
Dedicated cubicle - W=1200 Canalis connection

Withdrawable

Circuit breakers

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

Connection		Upstream on incomer
		
<b>Devices</b>		<b>Withdrawable device</b>
		<b>MTZ3 63</b>
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 (4)		3P LVMZ1207      4P LVMZ1208
Front connection	Extension bars	must be made (3)

Distribution		Links on horizontal busbars Linergy LGYE 6300 A
		
<b>Devices</b>		<b>Withdrawable device</b>
		<b>MTZ3 40-63</b>
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)
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) 3 x set of 87233 for 3P device (12 pieces) or 4 x set of 87233 for 4P device (16 pieces), represent the total required quantity for the replacement of both top and bottom device connections.
- (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 tight the screws of the Canalis interface use the special tool 87808.



# Enclosures





<b>Enclosures</b>		<b>F-2</b>
	PrismaSeT 6300 - Enclosures RAL 9003	F-2
	PrismaSeT 6300 - Frameworks	F-4
	PrismaSeT 6300 - IP55 side panels	F-5
	PrismaSeT 6300- Enclosures RAL 7035	F-6
	PrismaSeT 6300- Frameworks	F-8
	PrismaSeT 6300- IP55 side panels	F-9
	Dimensions	F-10
<b>Accessories</b>		<b>F-12</b>
	Coupling kit	F-12
	Plinth	F-13
	Vertical column support	F-14
	Installation accessories	F-15
	Ventilation accessories	F-16
	Roof installation	F-17
	Door handles and locks	F-18

### Enclosures

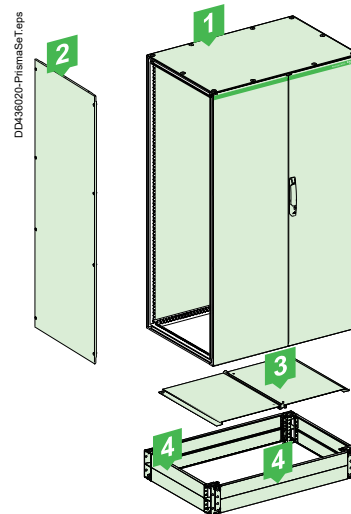
#### 1200 mm width switchboard

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)

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



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

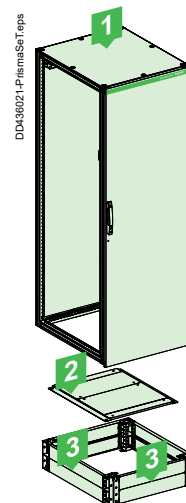
#### 700 mm width switchboard

For switchboard with front connections.

- assembled enclosure
- transparent door or plain door
- gland plates (1 entry).

##### Parts list for switchboard 2 (depth 800)

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



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

### 500 mm width switchboard

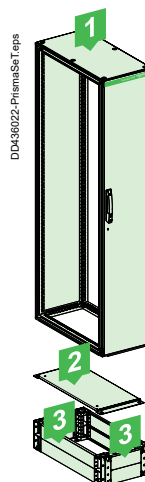
Made up of single cubicle used for vertical busbars (above 4000 A) or cable chamber.

Front connections are possible

- assembled enclosure
- gland plates (1 entry)
- plinth

#### Parts list for switchboard 3 (depth 800)

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



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

### 300 mm width switchboard

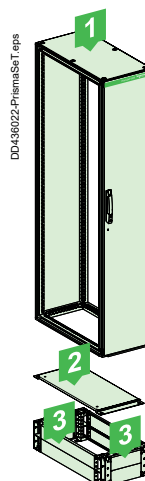
Made up of single cubicle used for vertical busbars (up to 4000 A) or cable chamber.

Front connections are possible.

- assembled Enclosure
- gland plates (1 entry).

#### Parts list for switchboard 4 (depth 800)

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



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



Enclosures  
Frameworks

Enclosures

Mounting	Enclosures for front connection			
<b>Width (mm)</b>	<b>300</b>	<b>500</b>	<b>700</b>	<b>1200</b>
	<b>Depth 800 mm</b>			
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 intermediary uprights for Linergy 6300A	-	LVS03589 (2 uprights are included)	LVS03589 (2 uprights are included)	LVS06500 + NSYVR18 (2 uprights are included)

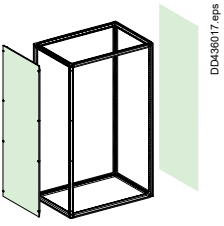
Mounting	Fixed front plate support uprights for W1200	Hinged front plate frame support W700
<b>Width (mm)</b>	<b>1200</b>	<b>700</b>
Cat. no.	LVS03591	LVS08566
Characteristics	-	<ul style="list-style-type: none"> <li>Reversible for left or right-hand opening.</li> <li>Secured at two points.</li> </ul>

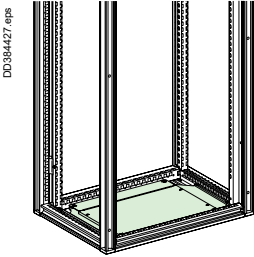


# Enclosures

## IP55 side panels

### Enclosures

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.



Enclosures

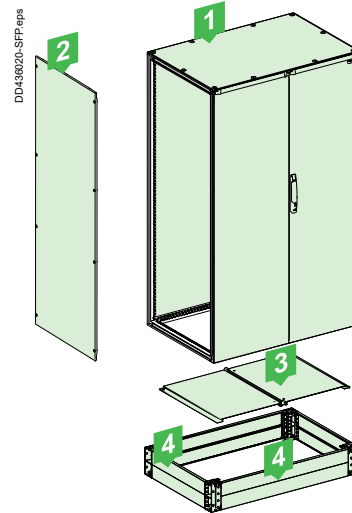
1200 mm width switchboard

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)

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



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

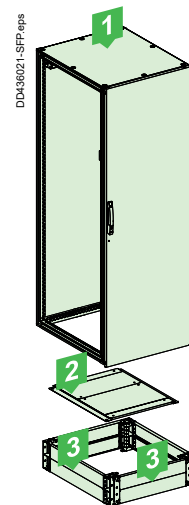
700 mm width switchboard

For switchboard with front connections.

- assembled enclosure
- transparent door or plain door
- gland plates (1 entry)
- plinth

Parts list for switchboard 2 (depth 800)

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



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



### 500 mm width switchboard

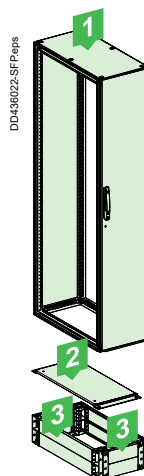
Made up of single cubicle used for vertical busbars (above 4000 A) or cable chamber.

Front connections are possible

- assembled enclosure
- gland plates (1 entry)
- plinth

#### Parts list for switchboard 3 (depth 800)

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



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

### 300 mm width switchboard

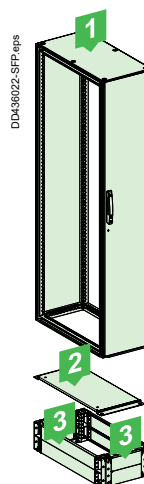
Made up of single cubicle used for vertical busbars (up to 4000 A) or cable chamber.

Front connections are possible.

- assembled Enclosure
- gland plates (1 entry)
- plinth

#### Parts list for switchboard 4 (depth 800)

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



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



Enclosures  
Frameworks

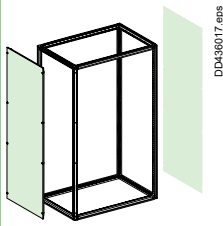
Enclosures

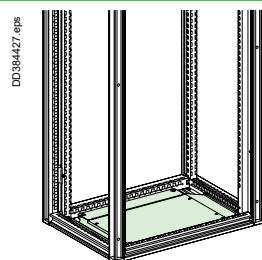
Mounting	Enclosures for front connection			
<b>Width (mm)</b>	<b>300</b>	<b>500</b>	<b>700</b>	<b>1200</b>
	<b>Depth 800 mm</b>			
Assembled enclosure plain door	NSYSFN20380	NSYSFN20580	NSYSFPN20780G	NSYSFN2012802D
Assembled enclosure transparent door	-	-	NSYSFPN20780TG	-
Uprights for Linergy LGY mounting	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 intermediary 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		
<b>Width (mm)</b>	<b>1200</b>	<b>700</b>		
Cat. no.	LVS03591	LVS08566		
Characteristics	-	<ul style="list-style-type: none"> <li>Reversible for left or right-hand opening.</li> <li>Secured at two points.</li> </ul>		

# Enclosures

## IP55 side panels

### Enclosures

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.

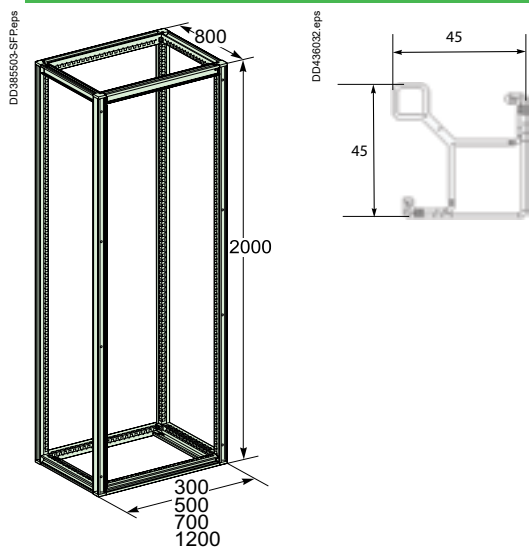


# Enclosures

## Dimensions

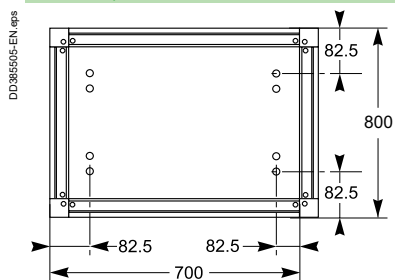
### Dimensions

#### Frameworks



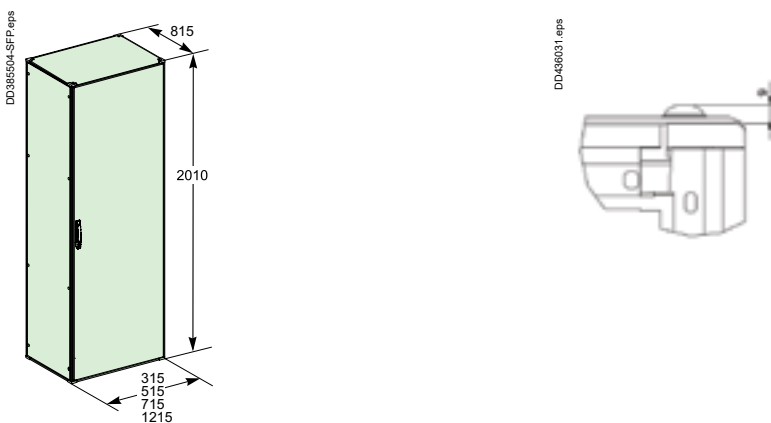
#### Fixing to floor

Without plinth



#### Cubicle with cover panels

Height

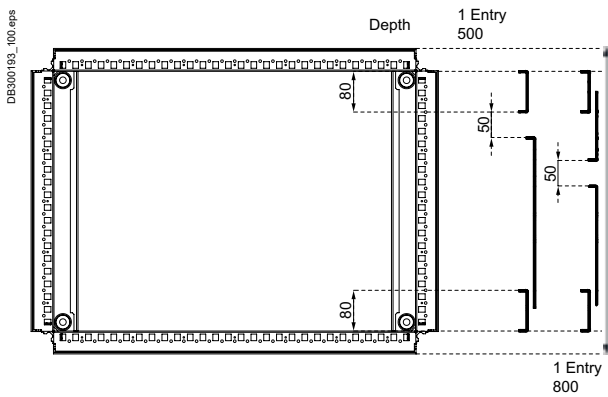


# Enclosures

## Dimensions

### Dimensions

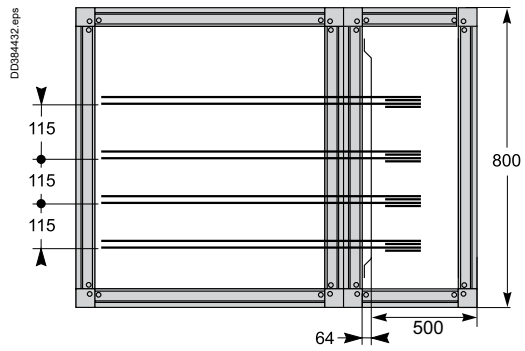
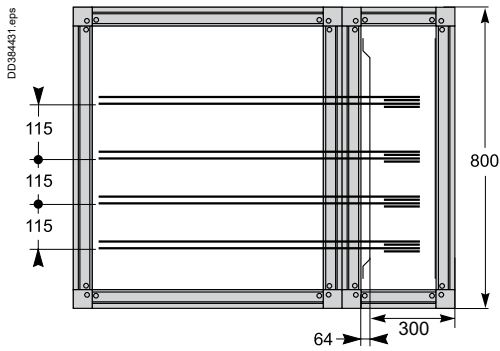
#### Gland plates



#### Busbars mounting, lateral vertical busbars

2500 A to 6300 A

>4000 A - up to 6300 A



# Accessories

## Coupling kit

Enclosures

Coupling kit	
<b>Type</b>	<b>Side-by-side</b>
Cat. no.	NSYSFBK19

Accessories	
<b>Type</b>	<b>Commodities</b>
	<b>Fixing screws and nuts</b>
Cat. no.	LVS08921
Characteristics	Set of 20 screws



Accessories

Plinth

Enclosures

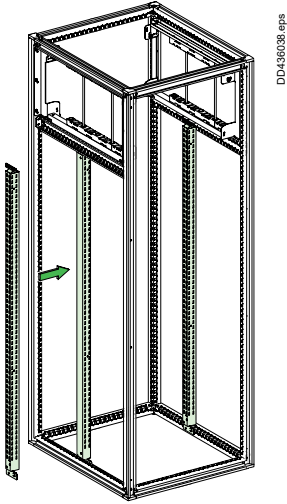
Mounting		Plinth H = 100 mm				Plinth H = 200 mm			
Dimensions (mm)		W = 300	W = 500	W = 700	W = 1200	W = 300	W = 500	W = 700	W = 1200
Front and rear cross-pieces	D=800	NSYS PF3100	NSYS PF5100	NSYS PF7100	NSYS PF12100	NSYS PF3200	NSYS PF5200	NSYS PF7200	NSYS PF12200
Lateral cross-pieces	D = 800	NSYS PS8100	NSYS PS8100	NSYS PS8100	NSYS PS8100	NSYS PS8200	NSYS PS8200	NSYS PS8200	NSYS PS8200
Characteristics	The plinth is made up of two catalog numbers: <ul style="list-style-type: none"> <li>one catalog number comprising four corner posts + two cross-pieces (front and rear), that can be used in side-by-side combinations or stacked to form a plinth 200 mm high (maximum)</li> <li>one catalog number comprising two side plates.</li> </ul> Each catalog number is supplied with the necessary hardware.								
Examples	<p>Side-by-side combination of two cubicles with a plinth.</p>		<p>The front and rear cross-pieces can be easily removed for a pallet-mover.</p>						

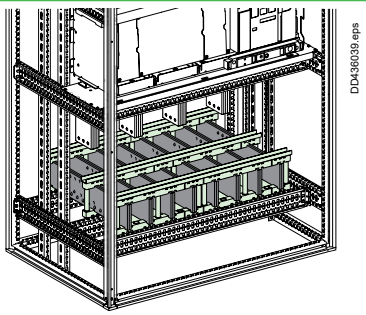


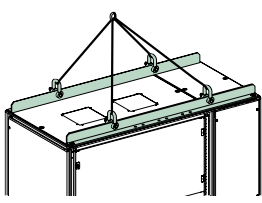
# Accessories

## Vertical Column Support

Enclosures

Mounting				
Vertical Column Support				
				
<b>Width (mm)</b>	300	500	700	1200
	<b>Depth 800 mm</b>			
Cat. no.	-	LVS03589	LVS03589	-
Characteristics	<ul style="list-style-type: none"> <li>It is mandatory only when the horizontal LGYE 6300 busbar is inside the column.</li> </ul>			

Mounting				
				
<b>Width (mm)</b>	300	500	700	1200
	<b>Depth 800 mm</b>			
Cat. no.	-	-	-	LVS04631



Mounting	Lifting bar
	
Cat. no.	<b>NSYSFTB16</b>
Characteristics	<ul style="list-style-type: none"> <li>▪ Set of bars for lifting and transporting enclosures suites.</li> <li>▪ They are fixed to the structure of the enclosure, in the axis of the uprights.</li> <li>▪ Material: Steel.</li> </ul>



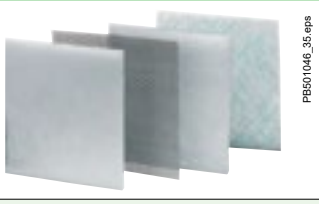
Accessories

Ventilation accessories

Others

Forced-air ventilation		560 m <sup>3</sup> /hr	850 m <sup>3</sup> /hr
			
Cat. no.		<b>NSYCVF560M230PF</b>	<b>NSYCVF850M230PF</b>
Unimpeded throughput via filter (m <sup>3</sup> /hr)	50 Hz	562	838
	60 Hz	586	803
Throughput via outlet grill (m <sup>3</sup> /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.	<b>NSYCAG291LPF</b>	<b>NSYCAG291LPF</b>

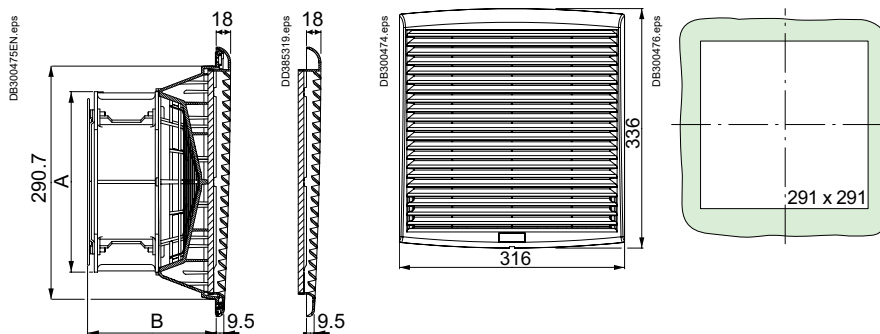
Filters for outlet grill		
		
G2 M1 standard filters	<b>NSYCAF291</b>	<b>NSYCAF291</b>
G3 M1 fine filters	<b>NSYCAF291T</b>	<b>NSYCAF291T</b>
Characteristics	Set of 5 (for replacement) Synthetic filters	

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

Dimensions

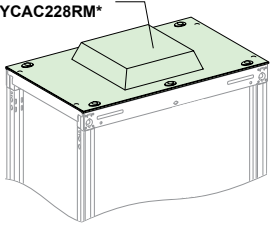
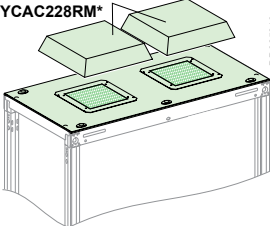
A	B	Cat. no.
225	160.5	<b>NSYCVF560M230PF</b>
280	192	<b>NSYCVF850M230PF</b>

NSYCVF560M230PF - NSYCVF850M230PF



Accessories  
Roof installation

Others

Roof ventilation	Width 500 and 700	Width 1200
	<p data-bbox="424 349 580 389">NSYCVF575M230M* or NSYCAC228RM*</p>  <p data-bbox="767 360 783 439" style="writing-mode: vertical-rl; transform: rotate(180deg);">DD385540.eps</p>	<p data-bbox="866 349 1043 389">2 x NSYCVF575M230M* or 2 x NSYCAC228RM*</p>  <p data-bbox="1198 360 1214 439" style="writing-mode: vertical-rl; transform: rotate(180deg);">DD385819.eps</p>
<b>Forced ventilation top hood with fan</b>		
Catalog numbers	NSYCVF575M230MF (RAL7035 Grey) / NSYCVF575M230MB (RAL9003 White)	
Characteristics	<p data-bbox="424 667 596 689"><b>Fan characteristics</b></p> <ul style="list-style-type: none"> <li data-bbox="424 689 564 712">▪ Power: 575 W</li> <li data-bbox="424 712 612 734">▪ Input voltage: 230 V</li> <li data-bbox="424 734 676 757">▪ Throughput via outlet grill:</li> <li data-bbox="424 757 580 779">□ with 1 outlet grill: 350 m<sup>3</sup>/hr</li> <li data-bbox="424 779 644 801">□ Free with filter: 575 m<sup>3</sup>/hr</li> <li data-bbox="424 801 852 824">□ Finishing parts: painted with epoxy-polyester resin</li> <li data-bbox="424 824 596 846">▪ Noise level: 64 dB.</li> </ul>	
<b>Natural ventilation top hood without fan</b>		
Catalog numbers	NSYCAC228RMF (RAL7035 Grey) / NSYCAC228RMB (RAL9003 White)	
Characteristics	<ul style="list-style-type: none"> <li data-bbox="424 929 564 952">▪ Material: steel</li> <li data-bbox="424 952 868 974">▪ Finishing parts: painted with epoxy-polyester resin</li> <li data-bbox="424 974 485 996">▪ IP54</li> <li data-bbox="424 996 963 1019">▪ Fixing to the top by means of caged nuts and special screws</li> </ul>	
Air-flow cross section = 304 cm <sup>2</sup> without electrical fan	2 x 304 cm <sup>2</sup>	

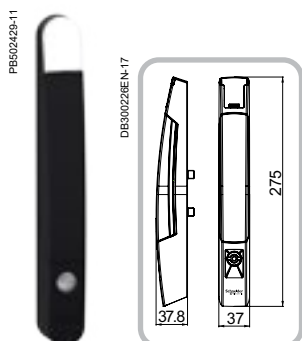


# Accessories

## Door handles and locks

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)
<b>References</b>	<b>NSYSFNHS1</b>

Accessories																																																									
<p>Shape inserts</p> <p>Push button</p> <p>Cylindrical barrels</p>	<table border="1"> <thead> <tr> <th>Shape inserts</th> <th>References</th> <th>Cylindrical barrels</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>6-mm square insert</td> <td><b>NSYINS61</b></td> <td>405E key lock</td> <td><b>NSYIN405E1</b></td> </tr> <tr> <td>7-mm square insert</td> <td><b>NSYINS71</b></td> <td>421E key lock</td> <td><b>NSYIN421E1</b></td> </tr> <tr> <td>8-mm square insert</td> <td><b>NSYINS81</b></td> <td>455 key lock</td> <td><b>NSYIN4551</b></td> </tr> <tr> <td>6.5-mm triangular insert</td> <td><b>NSYINT61</b></td> <td>1242E key lock</td> <td><b>NSYIN1242E1</b></td> </tr> <tr> <td>7-mm triangular insert</td> <td><b>NSYINT71</b></td> <td>2131A key lock</td> <td><b>NSYIN2131A1</b></td> </tr> <tr> <td>8-mm triangular insert</td> <td><b>NSYINT81</b></td> <td>2132A key lock</td> <td><b>NSYIN2132A1</b></td> </tr> <tr> <td>9-mm triangular insert</td> <td><b>NSYINT91</b></td> <td>2433A key lock</td> <td><b>NSYIN2433A1</b></td> </tr> <tr> <td>3-mm double-bar insert</td> <td><b>NSYINDB31</b></td> <td>3113A key lock</td> <td><b>NSYIN3113A1</b></td> </tr> <tr> <td>5-mm double-bar insert</td> <td><b>NSYINDB51</b></td> <td>EDF1300 key lock</td> <td><b>NSYINF1301</b></td> </tr> <tr> <td><b>Push button</b></td> <td><b>Reference</b></td> <td></td> <td></td> </tr> <tr> <td>Push button</td> <td><b>NSYINPULS1</b></td> <td>Michelin 8133 keyless lock</td> <td><b>NSYINICHEL8131</b></td> </tr> <tr> <td></td> <td></td> <td>Michelin 8376 keyless lock</td> <td><b>NSYINICHEL8371</b></td> </tr> <tr> <td></td> <td></td> <td>E1 keyless lock</td> <td><b>NSYINE11</b></td> </tr> </tbody> </table>	Shape inserts	References	Cylindrical barrels	References	6-mm square insert	<b>NSYINS61</b>	405E key lock	<b>NSYIN405E1</b>	7-mm square insert	<b>NSYINS71</b>	421E key lock	<b>NSYIN421E1</b>	8-mm square insert	<b>NSYINS81</b>	455 key lock	<b>NSYIN4551</b>	6.5-mm triangular insert	<b>NSYINT61</b>	1242E key lock	<b>NSYIN1242E1</b>	7-mm triangular insert	<b>NSYINT71</b>	2131A key lock	<b>NSYIN2131A1</b>	8-mm triangular insert	<b>NSYINT81</b>	2132A key lock	<b>NSYIN2132A1</b>	9-mm triangular insert	<b>NSYINT91</b>	2433A key lock	<b>NSYIN2433A1</b>	3-mm double-bar insert	<b>NSYINDB31</b>	3113A key lock	<b>NSYIN3113A1</b>	5-mm double-bar insert	<b>NSYINDB51</b>	EDF1300 key lock	<b>NSYINF1301</b>	<b>Push button</b>	<b>Reference</b>			Push button	<b>NSYINPULS1</b>	Michelin 8133 keyless lock	<b>NSYINICHEL8131</b>			Michelin 8376 keyless lock	<b>NSYINICHEL8371</b>			E1 keyless lock	<b>NSYINE11</b>
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# Lineryg Distribution Systems



<b>Power busbars</b>	<b>G-2</b>
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Lateral profiles LGY up to 1600 A	G-4
Lateral profiles LGYE up to 6300 A	G-6
Accessories	G-8

Linergy LGYE

Horizontal profiles up to 6300 A

Power busbars

Linergy LGYE profiles												
Installation		Up to 1600 A					Up to 4000 A				Up to 6300 A	
Linergy profiles												
		<b>630 A</b>	<b>800 A</b>	<b>1000 A</b>	<b>1250 A</b>	<b>1600 A</b>	<b>2000 A</b>	<b>2500 A</b>	<b>3200 A</b>	<b>4000 A</b>	<b>6300 A</b>	
Permissible current for an ambient temperature of 35 °C around the switchboard (1)	IP y 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3620 A	5200 A (2)	
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A	6300 A (1)	
Number of profiles per phase		1					1				1	
Total number of vertical modules (50 mm)		3					3				4	7 (3)
Catalog numbers		960 mm	-									LVS04569
		1160 mm	-									LVS04580
		1360 mm	-									LVS04581
		1690 mm	-									LVS04582
		2000 mm	LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04565	LVS04566	LVS04567	LVS04568	-

Note: (1) With forced ventilation  
 (2) With Natural Ventilation  
 (3) Without form 2 partitioning of horizontal busbars

Busbar supports												
Installation		Up to 1600 A			Up to 4000 A			Up to 6300 A				
	Fixed support											
	Free support	LVS04664			LVS04664			LVS04660				
		LVS04662			LVS04662			LVS04675				
Characteristics		2 fixed supports for 1200 wide frame 2 fixed supports for PrismaSeT 6300 700 wide frame are compulsory. 1 fixed support for 300 wide frame are compulsory. 2 fixed support for 500 wide frame are compulsory. If more supports are needed, add free supports.										
Distance between phases		For all the busbar below 4000A: 75mm for 6300A: 115mm										
In cubicle: PrismaSeT 6300 W300 (kA rms/1 s)	Number of supports	y 15	1*									-
	depending on l <sub>cw</sub>	y 25	1*									-
	(kA rms/1 s)	y 30	1*									-
		y 40	1*									-
		y 50	1*									-
		y 60	1*									-
		y 65	1 + 1									-
		y 75	1 + 1									-
	y 85	1 + 1									-	
	y 100	-					1 + 1			-		
Installation		Up to 1600 A			Up to 4000 A			Up to 6300 A				



# Linergy LGYE

Horizontal profiles up to 6300 A

## Power busbars

Busbar supports						
In cubicle: PrismaSeT 6300 W500	Number of supports depending on I <sub>cw</sub> (kA rms/1 s)	y 15	-		2*	
		y 25	-		2*	
		y 30	-		2*	
		y 40	-		2*	
		y 50	-		2*	
		y 60	-		2*	
		y 65	-		2*	
		y 75	-		2*	
		y 85	-		2*	
		y 100	-	2 + 1		2*
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 (order 1 per support)	LVS04664 + LVS04646 (sold in lots of 12 spacers)	LVS04660 + NSYSUCR6580	
	Free support	LVS04662	LVS04662 + LVS04671 (order 1 per support)	LVS04662 + LVS04646 (sold in lots of 12 spacers)	LVS04675	
In cubicle: PrismaSeT 6300 W700	Number of supports depending on I <sub>cw</sub> (kA rms/1 s)	y 15	2		-	
		y 25	2		-	
		y 30	2		-	
		y 40		2		-
		y 50		2	2	-
		y 60	-		2+1	-
		y 65	-		2+1	-
		y 75	-		2+1	-
		y 85	-		2+1	-
		y 100	-		-	2+2
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 (order 1 per support)	LVS04664 + LVS04646 (sold in lots of 12 spacers)	LVS04660 + NSYSUCR6580	
	Free support	LVS04662	LVS04662 + LVS04671 (order 1 per support)	LVS04662 + LVS04646 (sold in lots of 12 spacers)	LVS04675	
In cubicle: PrismaSeT 6300 W1200	Number of supports depending on I <sub>cw</sub> (kA rms/1 s)	y 15	-		2	
		y 25	-		2	
		y 30	-		2	
		y 40	-		2	
		y 50	-		2+3	
		y 60	-		2+3	
		y 65	-		2+3	
		y 75	-		2+3	
		y 85	-		2+3	
		y 100	-		2+3	
Catalog numbers	Fixed support	-	-	-	LVS04660 + NSYSUCR6580	
	Free support	-	-	-	LVS04675	

Note: \* no free support with vertical busbar cubicle



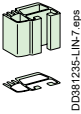
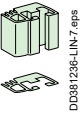

Joints										
Installation	Up to 1600 A					Up to 4000 A				Up to 6300 A
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A	6300 A
Linergy profiles										
Catalog numbers	3 x LVS04620 (3P) 4 x LVS04620 + LVS04624 (4P)					3 x LVS04621 (3P) 4 x LVS04621 + LVS04624 (4P)		3 x LVS04623 (3P) 4 x LVS04623 + LVS04624 (4P)		3 x LVS04625 (3P) 4 x LVS04625 (4P)
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.									Busbar should be partitioned properly and linked using LVS04625 with torque (28 Nm). Sold with shrinkable nuts M8 + insert studs



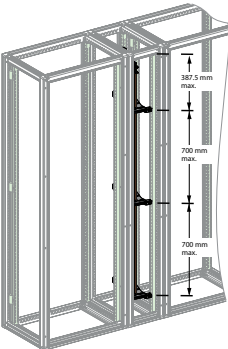

Lineryy LGY

Lateral profiles up to 1600 A

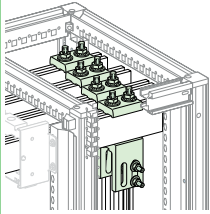
Power busbars

Lineryy LGY profiles		Up to 1600 A (single busbar)				
In PrismaSeT 6300 duct Lineryy profile, 1670 mm length		W300				
		 DD381233-LIN-7 eps	 DD381234-LIN-7 eps	 DD381235-LIN-7 eps	 DD381236-LIN-7 eps	 DD381237-LIN-7 eps
		<b>630 A</b>	<b>800 A</b>	<b>1000 A</b>	<b>1250 A</b>	<b>1600 A</b>
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		LVS04502	LVS04503	LVS04504	LVS04505	LVS04506

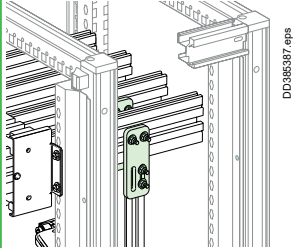
Busbar supports

	 Fixed support LVS04651		An end stop must be fitted on the bottom support: LVS01109 (sold in lots of 12)			
	Characteristics					
Number depending on Icw (kA rms/1 s)	≤ 25	3				
	≤ 30	-	3			
	≤ 40	-	-	3		
	≤ 50	-	-	-	4	
	≤ 60	-	-	-	5	
	≤ 65	-	-	-	-	5
	≤ 75	-	-	-	-	7
	≤ 85	-	-	-	-	8
Cat. no.		LVS04651 (set of 2 upright adapters NSYSFPAED for installation in PrismaSeT 6300 cubicle)				

Connections to the Lineryy BS horizontal busbar

		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no according to horizontal busbar size	5 mm thick	LVS04634	LVS04635
	10 mm thick	Width ≤ 80 mm	LVS04636
		Width > 80 mm	LVS04636 + LVS04642 LVS04638 + LVS04642

Connections to the Lineryy LGYE horizontal busbar

		≤ 1600 A
Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.
Cat. no.		LVS04602 (vertical connection) LVS04603 (vertical shifted connection) <sup>(1)</sup>

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



Linergy LGYE

Lateral profiles up to 6300 A

Power busbars

Linergy LGYE profiles		Up to 6300 A			
<b>In PrismaSeT 6300 duct</b> Linergy profile, 2000 mm length for all the ratings except 6300 A: 1625 mm length		<b>W300</b>			
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A
	IP > 31	530 A	680 A	850 A	1050 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 <sup>(2)</sup>		
	≤ 40	-		
	≤ 50	3 <sup>(2)</sup> + 2 <sup>(3)</sup>		
	≤ 60	-		
	≤ 65	-		
	≤ 75	-		
	≤ 85	-		
	≤ 100	-		
<b>Cat. no. of supports depending on distance between bars and duct depth</b>	Duct 115 mm = HBB up to 4000 A distance between bars	W300, D800	LVS04649 (fixed) + LVS04678 (free) + LVS04648 (bottom) <sup>(1)</sup>	
	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			
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			
Characteristics		2000/2500 A	
		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no.		LVS04604 (short connection) LVS04605 (long connection)	



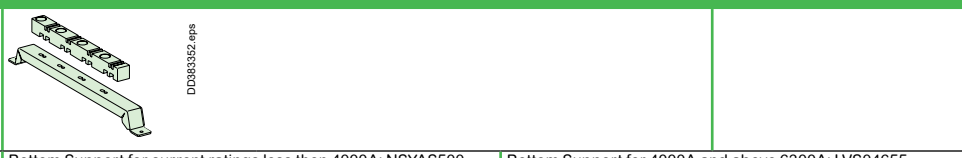
Linergy LGYE

Lateral profiles up to 6300 A

Power busbars

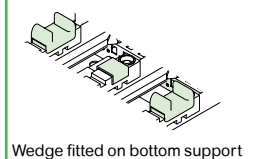
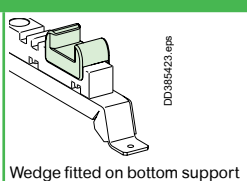
<b>1600 A</b>	<b>2000 A</b>	<b>2500 A</b>	<b>3200 A</b>	<b>4000 A</b>	<b>6300 A</b>
1480 A	1650 A	2100 A	2800 A	3620	5200*
1650 A	2000 A	2440 A	3200 A	3350	6300**
			1625 mm		1690 mm

<b>LVS04564</b>	<b>LVS04565</b>	<b>LVS04566</b>	<b>LVS04509</b>	<b>LVS04510</b>	<b>LVS04582</b>
					<b>500 mm</b>

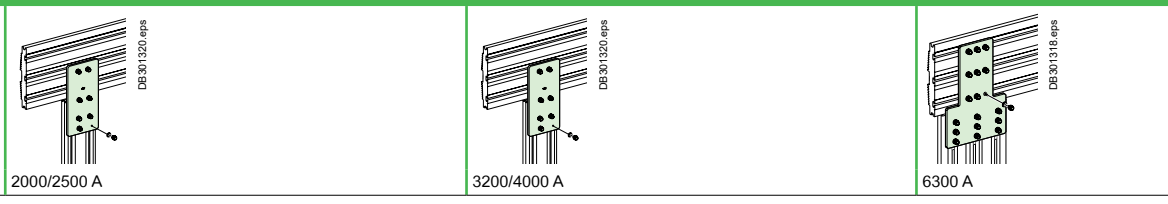


Bottom Support for current ratings less then 4000A: NSYAS500 | Bottom Support for 4000A and above 6300A: LVS04655

	3 <sup>(2)</sup>				-
	3 <sup>(2)</sup>				-
			3 <sup>(2)</sup>		-
3 <sup>(2)</sup> +2 <sup>(3)</sup>					-
3 <sup>(2)</sup> +4 <sup>(3)</sup>			3 <sup>(2)</sup> +2 <sup>(3)</sup>		-
3 <sup>(2)</sup> +4 <sup>(3)</sup>					-
		3 <sup>(2)</sup> +6 <sup>(3)</sup>			2 <sup>(2)</sup> +3 <sup>(3)</sup>


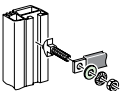


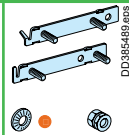

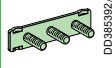


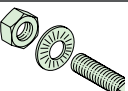
**LVS04659 (pack of 12 replacement stops)** | **LVS04655 (Included with busbar support kit)**




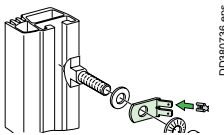
3*LVS04639 (3P) 4*LVS04639 (4P)	3*LVS04622 (3P) 4*LVS04622 (4P)	3*LVS04627 (3P) 4*LVS04627 (4P)
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Accessories										
										
Cat. no.	<b>LVS04766</b>	<b>LVS04767</b>	<b>LVS04772</b>	<b>LVS04773</b>	<b>LVS04774</b>	<b>LVS04775</b>	<b>LVS04794</b>	<b>LVS01130</b>	<b>LVS04768</b>	<b>LVS04769</b>
Characteristics	L 25 mm	L 39 mm	20 mm ext. Ø	24 mm ext. Ø	28 mm ext. Ø	20 mm ext. Ø		2 studs	2 studs	3 studs
	Set of 20: 20 bolts + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.		M8 set of 20			M8 sold in lots of 20 for connection of ≤ 25 mm <sup>2</sup> lugs to Linergy	12 clip-on supports + N, L1, L2, L3, PE, PEN labels	Linerger 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		
		
Linerger BS, 20 bolts class 8.8	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers.
	<b>Catalog numbers</b>	<b>LVS04782</b>
		<b>LVS04783</b>
		<b>LVS04784</b>
		<b>LVS04785</b>
		<b>LVS04786</b>
		<b>LVS04787</b>
		<b>LVS04788</b>

Torque nuts		
		
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by the manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	<b>Catalog numbers</b>	<b>LVS04759</b>

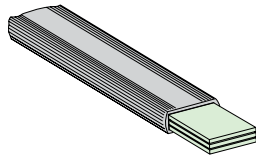
Voltage tap-offs		
		
20 Voltage tap-offs M10 pour 2 clips 6.35	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. LVS04775) between the busbar and the lug.
	<b>Catalog numbers</b>	<b>LVS04229</b>

 Connections on Linergy LGYE & LGY

InA (A)		Connecting to Linergy LGYE	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.

DD301659 eps



### Secondary distribution

The insulated flexible bars are tested in a type-tested switchboard environment. Their design takes into account the switchboard architecture where they are often in close proximity to a protection device (circuit breaker or fuse) with significant heat losses.

The sizes for the flexible bars indicated below take into account the heat losses of Schneider Electric devices in a PrismaSeT switchboard.

#### Characteristics

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

#### Connection between device and busbars

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

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

Devices	Size (mm)	Catalog number
NSX100	20 x 2	LVS04742
NSX160/250	20 x 3 (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.

G



# Functional Partitioning



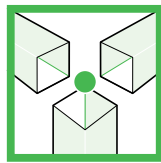
<b>Partitioning</b>	<b>H-2</b>
Form 1 partitioning	H-3
Form 2 partitioning	H-4
Form 3b partitioning	H-6
Form 4 partitioning	H-7



# 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.

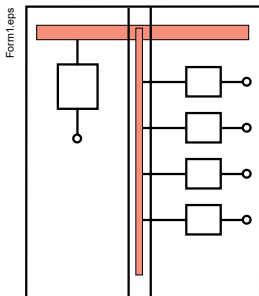
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

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).

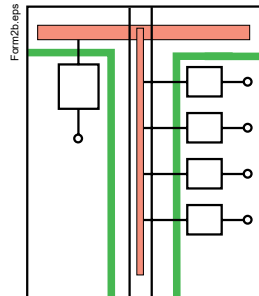
What is more, PrismaSeT 6300 offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a and 4b electrical switchboards. Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-1&2.

### Form 1



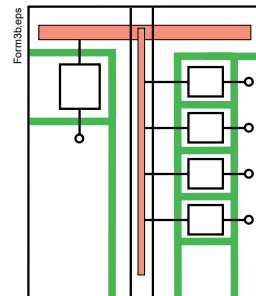
In most installations, PrismaSeT 6300 cubicles do not require partitioning. In this case, the switchboard is a Form 1. Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

### Form 2b



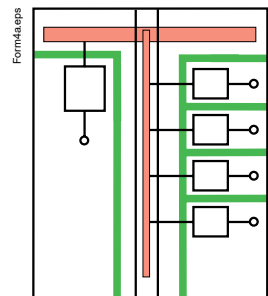
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

### Form 3b \*



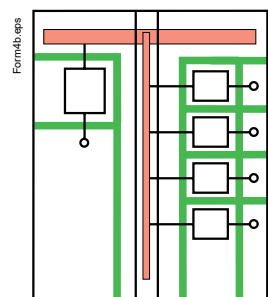
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

### 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.

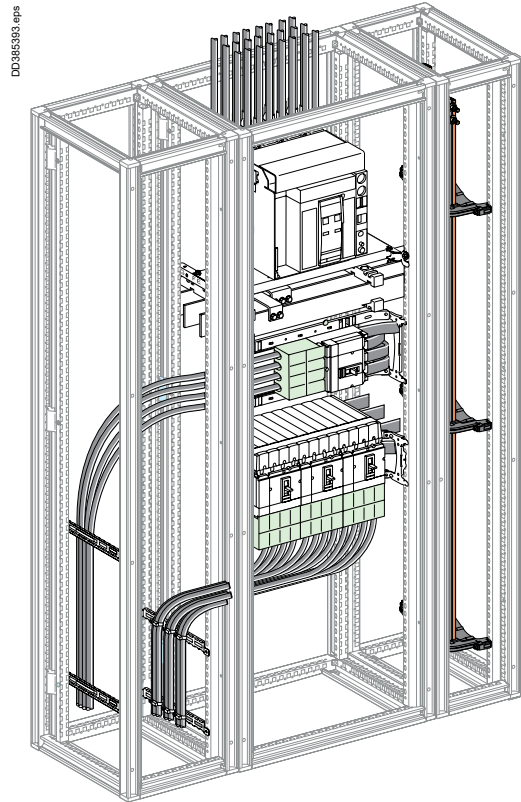
In most installations, PrismaSeT 6300 cubicles do not require partitioning. In this case, the switchboard is a Form 1. Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

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.

What is more, PrismaSeT 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.



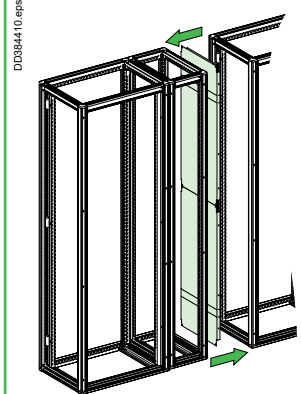
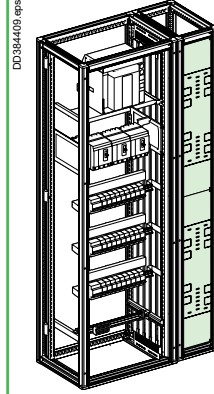
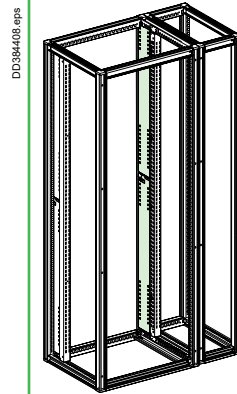
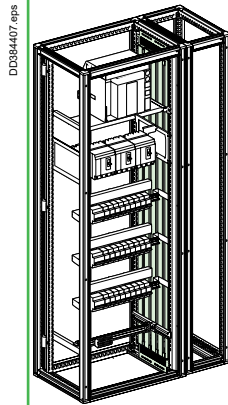
The protection of life and property is ensured by the systematic installation of terminal shields on ComPacT NSX circuit breakers and on ComPacT INS and INV switch-disconnectors (see the pages on the functional units).

## Form 2 partitioning

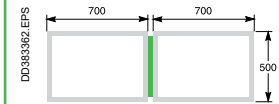
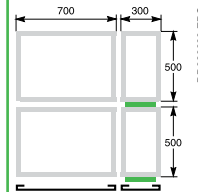
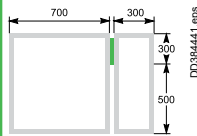
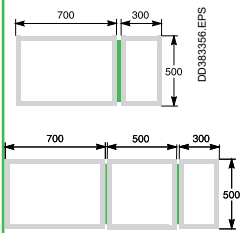
Separation of busbars from the functional units:

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

### Lateral partitioning



### Schemes



### 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 mm<sup>2</sup>, 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

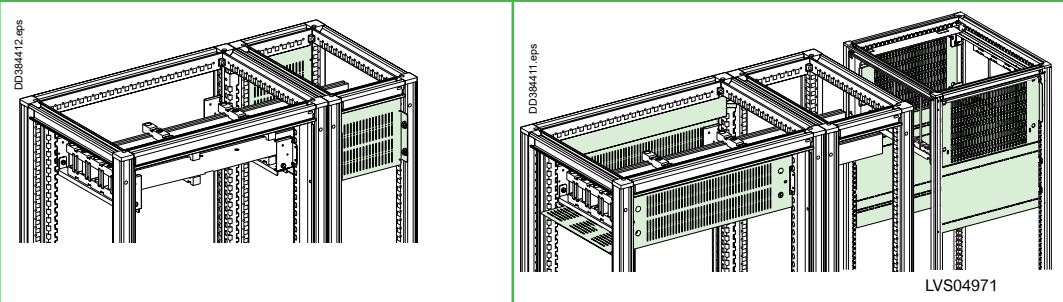
D800: LVS06543

W300: LVS06540  
W500: LVS04990

D500: LVS06555  
D800: LVS04911 + LVS06543  
D800: LVS04979 (1)

(1) For W1200 and W500 enclosures.

### Partitioning of horizontal busbars

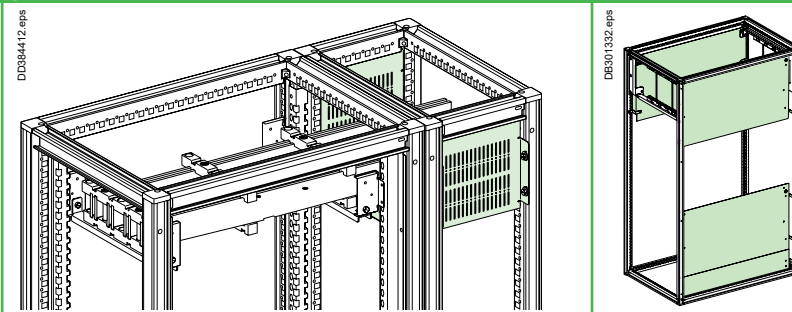


	W300		W700	
<b>Designation</b>	<ul style="list-style-type: none"> <li>Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.</li> <li>The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.</li> <li>The space required for the busbars is not increased.</li> </ul>			
<b>For Depth</b>	D500	D800	D500	D800
<b>Cat. no. for 3M busbar</b>	LVS06560	LVS06563	LVS06570	LVS06570
<b>Cat. no. for 4M busbar</b>	LVS06568	LVS06568	LVS06567	LVS06567
<b>Cat. no. for 8M busbar</b>	-	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	
<b>Designation</b>	<ul style="list-style-type: none"> <li>Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.</li> <li>The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.</li> <li>The space required for the busbars is not increased.</li> </ul>			
<b>For Depth</b>	D500	D800	D500	D800
<b>Cat. no. for 8M busbar</b>	-	LVS04970	-	LVS04972





# Form 3b partitioning

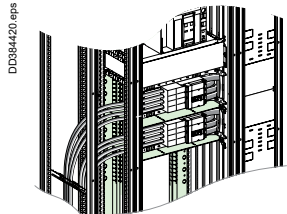
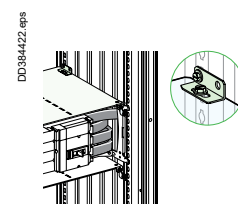

## Form partitioning

### Form 3b partitioning

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

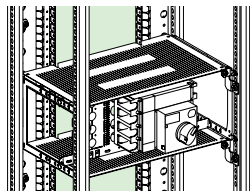
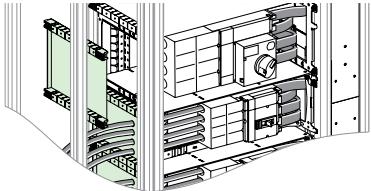
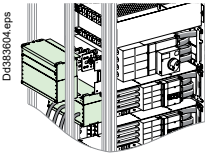
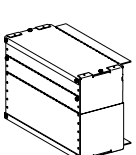
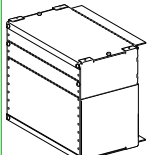
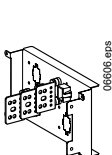
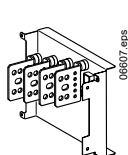
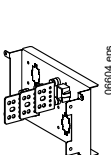
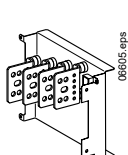
Separation of the terminals for external conductors from the functional units, but not from each other.

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

Front connection			
			
	<b>Horizontal metal partition, W650 mm</b>	<b>Rear support for partitions, W650 mm</b>	<b>6 universal angle brackets</b>
Characteristics	<ul style="list-style-type: none"> <li>▪ A horizontal metal partition can be used to physically separate functional units from one another.</li> </ul>	<ul style="list-style-type: none"> <li>▪ 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).</li> </ul>	<ul style="list-style-type: none"> <li>▪ A set of brackets can be used to install partial Form 3 partitioning in the cubicle.</li> <li>▪ It does not take up any useful space in the switchboard.</li> </ul>
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			
			
	<b>Form 4a backplate (one cat. no. per cubicle)</b>	<b>Form 4a gland plate</b>	
Characteristics	<ul style="list-style-type: none"> <li>▪ A backplate (one cat. no. per cubicle) made up of two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks.</li> </ul>	<ul style="list-style-type: none"> <li>▪ A plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.</li> </ul>	
Cat. no.	LVS04946	LVS04951	LVS04952
Form 4b partition			
			
			
			
		<b>Connection transfer assembly, 3 to 5 modules, 250 A</b>	<b>Connection transfer assembly, 4 to 6 modules, 630 A</b>
Characteristics	<ul style="list-style-type: none"> <li>▪ A cover with metallic gland plates that can be easily cut out on the side and bottom. It is available in two heights:</li> </ul>	<ul style="list-style-type: none"> <li>▪ Transfer assembly without connection to simplified the cable installation.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Transfer assembly without connection to simplified the cable installation.</li> </ul>
Cat. no.	LVS06600	LVS06601	LVS06602
		LVS06606	LVS06607
		LVS06604	LVS06605



# Additional Information



<b>Additional information</b>	<b>I-2</b>
After-sales accessories	I-2
Designing horizontal busbars - Linergy LGYE	I-3
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	<b>NSYSFSEGS300</b>
PrismaSeT 6300 - SE Green signature for W500	<b>NSYSFSEGS500</b>
PrismaSeT 6300 - SE Green signature for W700	<b>NSYSFSEGS700</b>
PrismaSeT 6300 - SE Green signature for W1200	<b>NSYSFSEGS1200</b>



# Designing horizontal busbars

## Linery LGYE

### Electrical characteristics

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

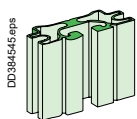
Linery LGYE section

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

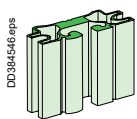
• Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

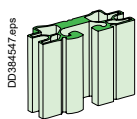
\*\* Ask to Schneider Electric.



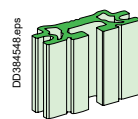
Section 630 A.  
Cat. No. LVS04560.



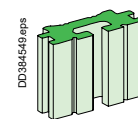
Section 800 A.  
Cat. No. LVS04561.



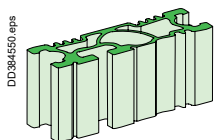
Section 1000 A.  
Cat. No. LVS04562.



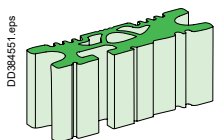
Section 1250 A.  
Cat. No. LVS04563.



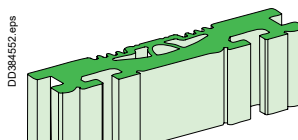
Section 1600 A.  
Cat. No. LVS04564.



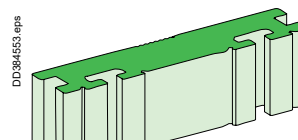
Section 2000 A.  
Cat. No. LVS04565.



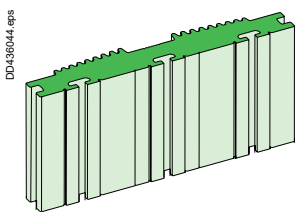
Section 2500 A.  
Cat. No. LVS04566.



Section 3200 A.  
Cat. No. LVS04567.



Section 4000 A.  
Cat. No. LVS04568.



Section 6300 A.  
Cat. No. LVS04582.

# Designing vertical busbars

## LinerGY LGY

### Electrical characteristics

#### Permissible current and selection of Linergy LGY busbars

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

#### Up to 3200 A

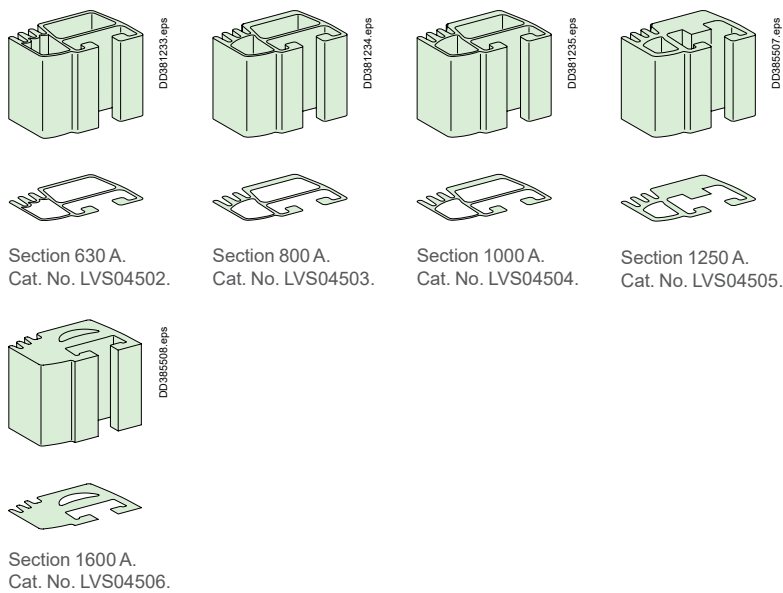
#### LinerGY LGY section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		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.



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

# Designing vertical busbars

## Linery LGYE

### Electrical characteristics

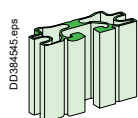
#### Permissible current and selection of Linery LGYE busbars

Up to 6300 A

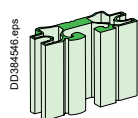
Linery LGYE section

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

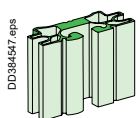
\* Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



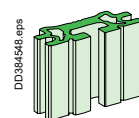
Section 630 A.  
Cat. No. LVS04560.



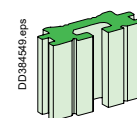
Section 800 A.  
Cat. No. LVS04561.



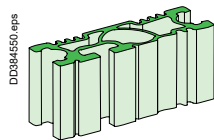
Section 1000 A.  
Cat. No. LVS04562.



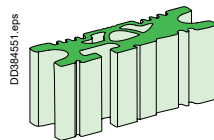
Section 1250 A.  
Cat. No. LVS04563.



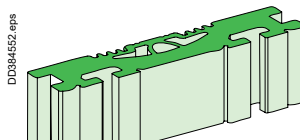
Section 1600 A.  
Cat. No. LVS04564.



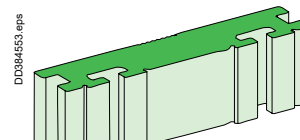
Section 2000 A.  
Cat. No. LVS04565.



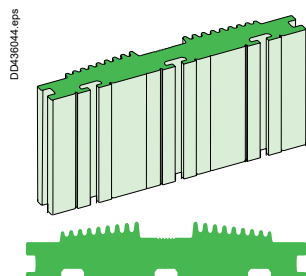
Section 2500 A.  
Cat. No. LVS04566.



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

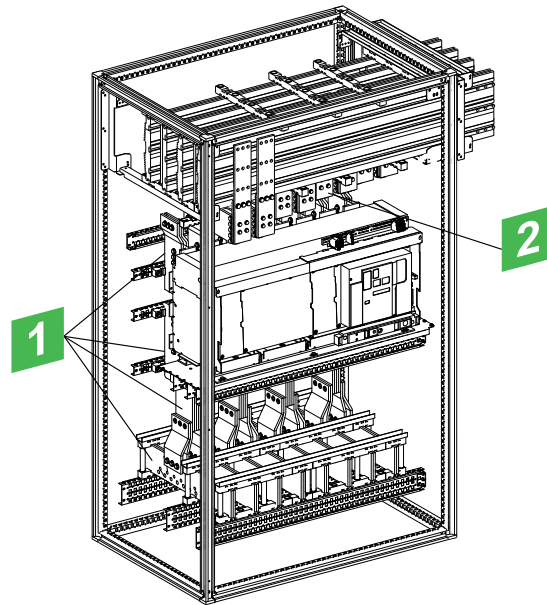
## Dedicated cubicle

### Drawout MasterPacT 40-63

## Electrical characteristics

Dedicated cubicle  
 Linergy LGYE  
 Connections drawings supplied by  
 Schneider Electric

DD436023.ai



### 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 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)
		4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	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 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)
		4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	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 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)	4b 120x10(1)
		4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	4b 80x10(2)	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.

#### Trunking connection via the top

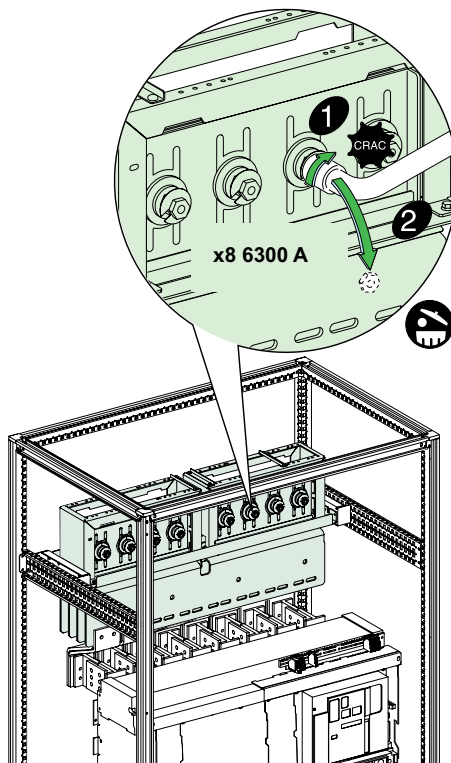
- Dismantle the roof.
- Cut out a passage for the busbar trunking.
- Adjust the guides according to the KT width that will be connected.
- Unscrew the junction block screws.
- Ensure that the busbar trunking length to be connected to the switchboard is correctly supported and that it is not resting on 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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