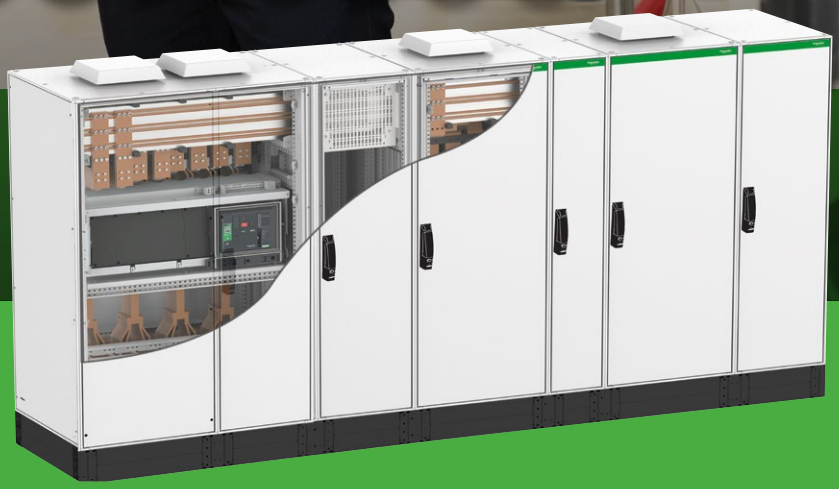
PrismaSeT 6300

Catalogue 2021
Cubicles up to 6300 A



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Overview

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PrismaSeT - Reliable, Easily connected

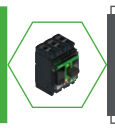
The new PrismaSeT switchboard is the market forerunner with built-in cloud connectivity, allowing instant access to smart alarm system, energy usage analysis, trends, and preventative maintenance plans.

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

PowerLogic HeatTag
- Cable Overheating Alert

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

ComPacT NSX
- With wireless Auxiliary Contact



New 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.eps

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 630A - IP30, IP40, IP41, IP43, IP55

160 A

250 A

630 A

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

PrismaSeT G

- Schools
- Small shops
- Hotels, etc.

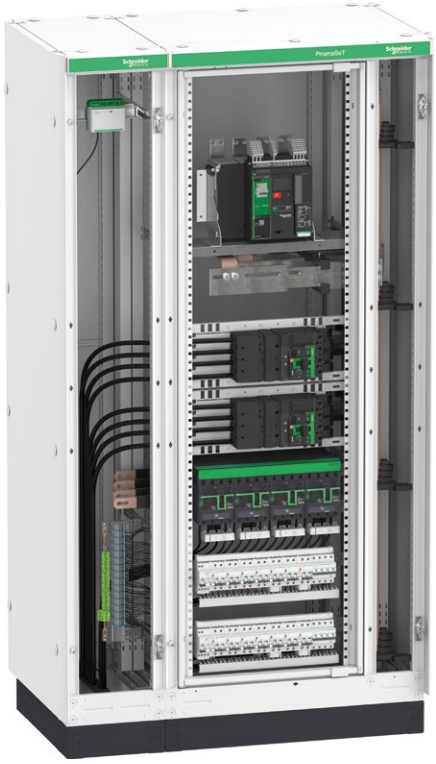
Pack

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

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

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

PrismaSeT P



Energy management has never been simpler

Smart Panels connect you to energy savings in three steps.

1. Measure

Embedded and stand-alone metering & control capabilities

- Embedded and stand-alone metering
- Control capabilities

2. Connect

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

3. Act

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

Tested, Validated, Documented Smart Panels architecture

Smart Panels have been certified via Schneider Electric's "TVDA" quality process

Tested in performance labs by experts, in the most common configuration

Validated full functional compatibility of devices

Documented, with user guide, predefined CAD panel designs & wiring diagrams

PrismaSeT 6300: Electrical switchboards from 630 A...

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

PB503767.eps

PB503769.eps

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 your Spacial SF 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 Ie: 6300 A
- Rated peak withstand current Ipk: 220 kÂ
- Rated short-time withstand current Icw: 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 epoxy-polyester powder.
- 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: IP55 up to 4000 A and IP54 up to 6300 A.
- Degree of protection against mechanical impacts: IK10 with door.
- Enclosures dimensions:
  - four widths:
    - W300 and W500: busbar or cable compartment
    - W700 and W1200: device compartment
  - three depths:
    - D500
    - D600 (up to 4000 A and only for enclosures with W700 and W300)
    - D800
  - 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 equirements 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 catalogue;
- 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 catalogue, all the documentation for switchboard design and mounting, calculation and design software, etc.

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

Standards and Certifications

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Standards

Regional standardization systems

Standards and tested switchboards

IEC international standards

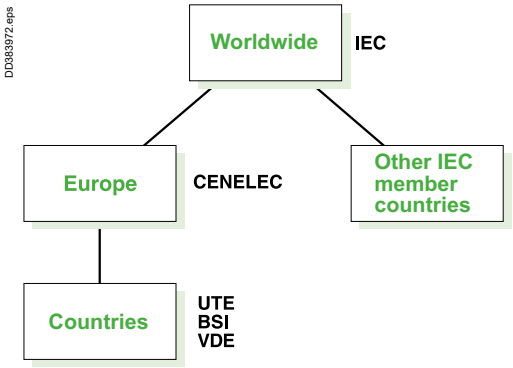
IEC member countries

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



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

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.

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.

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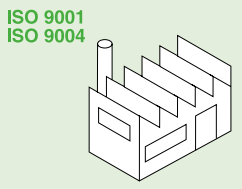

Design and manufacture.

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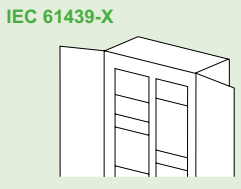

Switchgear and controlgear assemblies.

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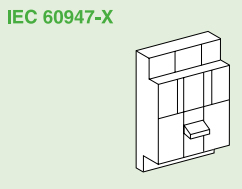

Switchgear and controlgear.

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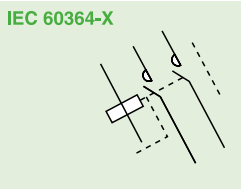

Installation.

Management standards

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

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

Installation standards

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

Product standards

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

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

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

Selection Guide

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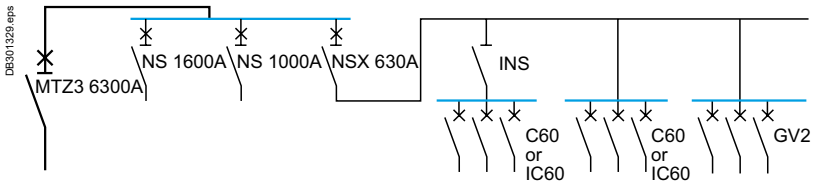
D

Select a cubicle configuration

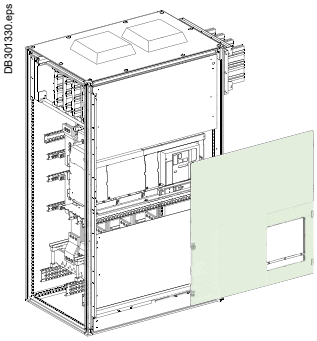
Starting with the electrical diagram: IP54 switchboard



Install the incomer

PrismaSeT 6300 Functional Units

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



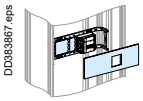
Incoming Cables Connection

Devices		Withdrawable device	
		MTZ3 6300 4P	
Mounting		**Front connection with cables**	**Front connection with Canalis Interface**
Number of devices per row		1	1
No. of vertical modules		38	38
Mounting Plate		**LVS03509**	**LVS03509**
Front Plates [No. of vertical modules]	upstream	**LVS03708** [11]	**LVS03706** [4] **+ LVS03708** [11]
	with cut-out	**LVS03707** [12]	**LVS03707** [12]
	downstream	**LVS03706** [4] **+ LVS03708** [11]	**LVS03708** [11]
Cross rails required to support mounting plate and must be mabe connections		4 x set of **NSYSUCR90120** 2 x set of **NSYSUCR9080** 2 x set of **NSYSUCR40120**	4 x set of **NSYSUCR90120** 2 x set of **NSYSUCR9080** 2 x set of **NSYSUCR40120**
Support for cross rails and bars		2 x **LVS04678**	2 x **LVS04694** + **LVS04678**
Interface		-	**LVS04739**
Cover		-	**LVS04871 + LVS04861**
Links on horizonal busbars Linergy LGYE 6300A		Must be made	Must be made

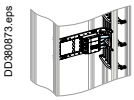
Install functional units up to 3200 A

PrismaSeT P Functional Units

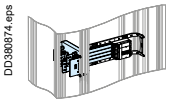
1. Installation



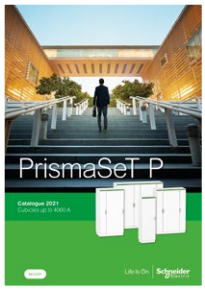
2. Lynergy LGY BB conn.



3. Connection with vertical BB must be made



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



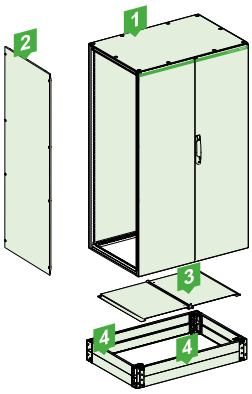
Determine the size of the switchboard:

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

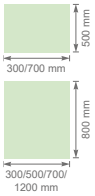
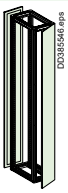
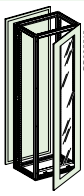
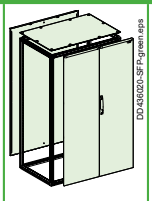
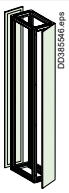
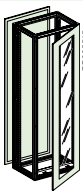
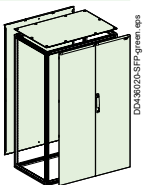
Select a cubicle configuration

Select the enclosures

PrismaSeT 6300 cubicles

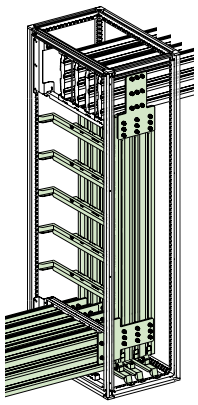


Switchboard 1 - Enclosure for the MTZ3 installation, W = 1200, D = 800

Mounting	Enclosures for front connection							
								
Width (mm)	**300**	**500**	**700**	**1200**	**300**	**500**	**700**	**1200**
	Depth 500 mm				**Depth 800 mm**			
Assembled enclosure plain door	NSYSF20350ED	-	NSYSFP20750ED	-	NSYSF20380ED	NSYSF20580ED	NSYSFP20780ED	NSYSF2012802DED
Assembled enclosure glazed door	-	-	NSYSFP20750TED	-	-	-	NSYSFP20780TED	-
Uprights for Linergy LGY mounting	NSYSFPAED	-	-	-	NSYSFPAED + NSYSUCR40200	-	-	-
Additional flanges for 5000 to 6300 A	-	-	-	-	-	LVS03598 (2 flanges are included)	LVS06569 (1 flange is included)	LVS03599 (2 flanges are included)
Additional intermidiary uprights for Linergy 6300A	-	-	-	-	-	LVS03589 (2 uprights are included)	LVS03589 (2 uprights are included)	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

D

Functional Units

Contents

Circuit breakers E-2
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

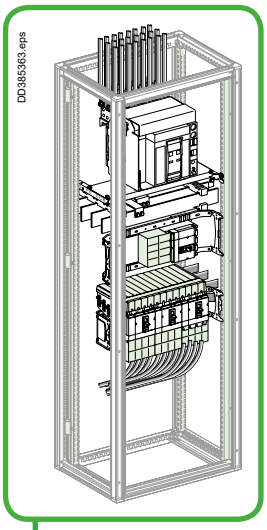
- Source changeover systems ComPacT/MasterPacT

- Source changeover systems ComPacT INS

- FuPacT from 32 to 1250 A

- Acti9

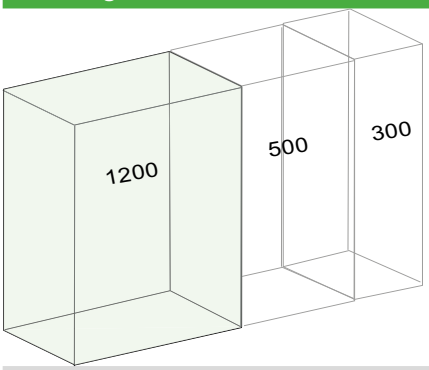
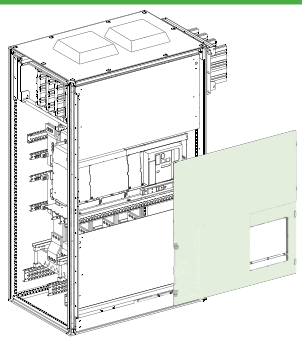
- Accessories

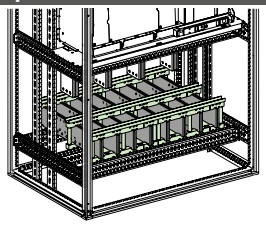


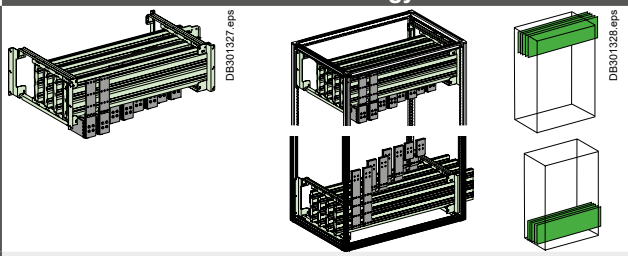
For more informations, see the catalogue PrismaSeT P - DESW024EN.

MasterPacT MTZ3 40b to 63

Dedicated cubicle - W=1200 Cables connection
Withdrawable

Mounting		Front connection
		
Devices		**Withdrawable device**
		MTZ3 40-63
Number of devices per row		1
Number of vertical modules		38
Mounting plate		**LVS03509**
Front plates [No. of vertical modules]	Upstream	**LVS03708** [11]
	with cut-out	**LVS03707** [12]
	downstream	**LVS03706** [4] **+ LVS03708** [11]
Cross rails required for mounting plate support		2 x **set of NSYSUCR90120** (4 pieces) 1 x **set of NSYSUCR9080** (2 pieces)

Connection	Upstream on incomer
	
Devices	**Withdrawable device**
	MTZ3 40-63
Type of terminals	Top & bottom rear vertical connections supplied with the device, needs to be replaced by **3 x set of 87233 for 3P** device (12 pieces) or **4 x set of 87233 for 4P** device (16 pieces) (1) (3)
Connection	must be made (2)
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)
Support for cross rails	2 x **LVS04678**

Distribution	Links on horizontal busbars Linergy LGYE 6300 A
	
Devices	**Withdrawable device**
	MTZ3 40-63
Type of terminals	Top & bottom rear vertical connections supplied with the device, needs to be replaced by **3 x set of 87233 for 3P** device (12 pieces) or **4 x set of 87233 for 4P** device (16 pieces) (1) (3)
Connection	must be made (2)

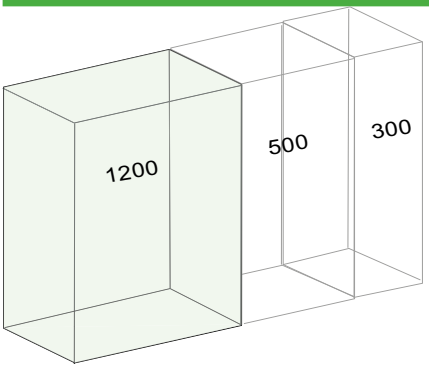
(1) 3 x set of 87233 for 3P device (12 pieces) or 4 x set of 87233 for 4P device (16 pieces), represent the total required quantity for the replacement of both top and bottom device connections.
For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200A.
Select downstream plain front plate (**03806**).
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.
(3) 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.

MasterPacT MTZ3 40 to 63

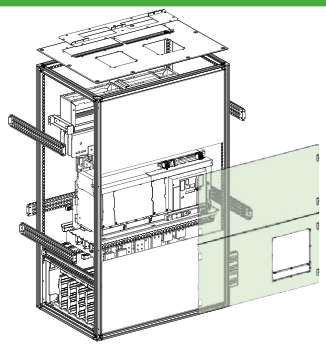
Dedicated cubicle - W=1200 Canalis connection

Withdrawable

Mounting



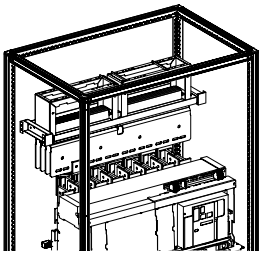
Front connection



Devices		Withdrawable device
		MTZ3 40-63
Number of devices per row		1
Number of vertical modules		38
Mounting plate		**LVS03509**
Front plates [No. of vertical modules]	Upstream	**LVS03706** [4] **+ LVS03708** [11]
	with cut-out	**LVS03707** [12]
	downstream	**LVS03708** [11]
Cross rails required for mounting plate support		4 x **NSYSUCR90120** 2 x **NSYSUCR9080** 2 x **NSYSUCR40120**

Connection

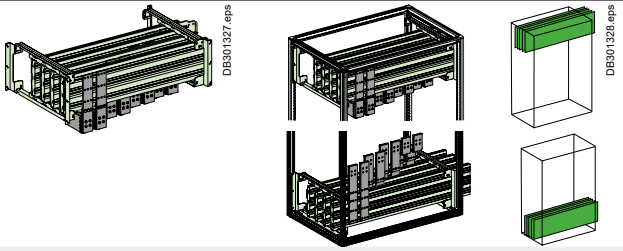
Upstream on incomer



Devices		Withdrawable device					
		MTZ3 40b		**MTZ3 50**		**MTZ3 63**	
Type of terminals		Vertical rear connections supplied with the device					
Canalis support		must be made (2)					
Canalis interface (4)		3P	4P	3P	4P	3P	4P
		LVS04739		**LVS04739**		**LVS04739**	
Front connection	Bar supports	2 x **LVS04694** + LVS**04678**					
	Extension bars	must be made (2)					
	Canalis Cover	**LVS04871** + **LVS04861**					

Distribution

Links on horizontal busbars Linergy LGYE 6300 A



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

(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) Connection to be made according to the busbar drawings supplied by Schneider Electric.
(3) 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.
(4) To tight the screxs of the Canalis interface use the special tool 87808.

Enclosures

Contents

Enclosures F-2

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

Accessories F-12

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

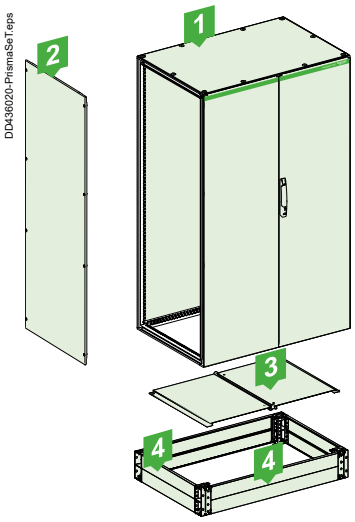
F

1200 mm width switchboard

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

Parts list for switchboard 1 (depth 800)

1	**NSYSF2012802DED**	PrismaSeT 6300 - Enclosure for MTZ3 - double door - 2000x1200x800 mm - RAL9003
2	**NSY2SP208ED**	PrismaSeT 6300 - 2 side panels - 2000x800mm - RAL9003
3	**NSYEC128**	Spacial SF plain cable gland plate - fixed by clips - 1200x800 mm
4	**NSYSPF12200**	Spacial SF/SM front plinth - 200x1200 mm
4	**NSYSPS8200**	Spacial SF/SM side panel plinth - 200x800 mm



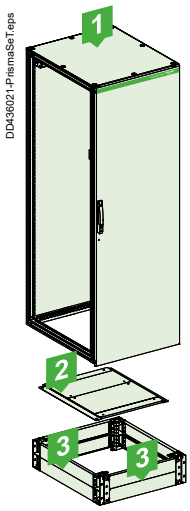
Switchboard 1 - Enclosure for the MTZ3 installation, W = 1200, D = 800

700 mm width switchboard

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

Parts list for switchboard 2 (depth 800)

1	**NSYSFP20780ED**	PrismaSeT 6300 - Enclosure PrismaSeT FU - plain door - 2000x700x800 mm - RAL9003
2	**NSYEC781**	Spacial SF 1 entry cable gland plate - fixed by clips - 700x800 mm
3	**NSYSPF7200**	Spacial SF/SM front plinth - 200x700 mm
3	**NSYSPS8200**	Spacial SF/SM side panel plinth - 200x800 mm



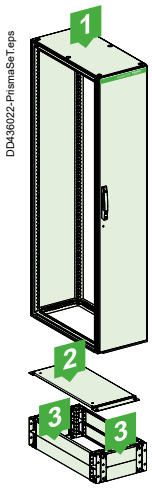
Switchboard 2 - Enclosure for the functional units, W = 700

500 mm width switchboard

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

Parts list for switchboard 3 (depth 800)

1	**NSYSF20580ED**	PrismaSeT 6300 - Enclosure LGYE6300 busbar - plain door - 2000x500x800 mm - RAL9003
2	**NSYEC581**	Spacial SF 1 entry cable gland plate - fixed by clips - 500x800 mm
3	**NSYSPF5200**	Spacial SF/SM front plinth - 200x500 mm
3	**NSYSPS8200**	Spacial SF/SM side panel plinth - 200x800 mm



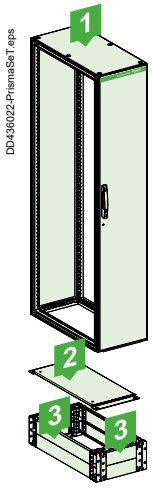
Switchboard 3 - Enclosure for vertical LGYE 6300 installation, W = 500, D = 800

300 mm width switchboard

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

Parts list for switchboard 4 (depth 800)

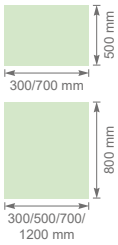
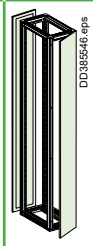
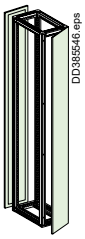
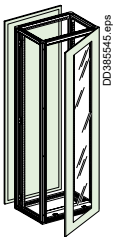
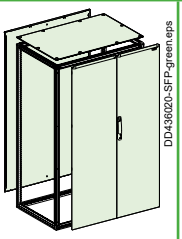
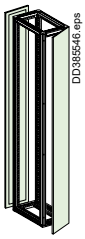
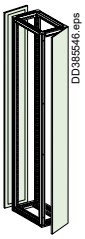
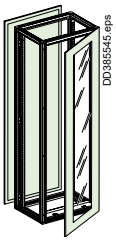
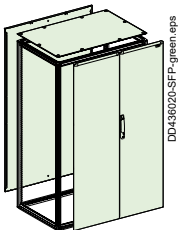
1	**NSYSF20380ED**	PrismaSeT 6300 - Enclosure busbar/cables - plain door - 2000x300x800 mm - RAL9003
2	**NSYEC381**	Spacial SF 1 entry cable gland plate - fixed by clips - 300x800 mm
3	**NSYSPF3200**	Spacial SF/SM front plinth - 200x300 mm
3	**NSYSPS8200**	Spacial SF/SM side panel plinth - 200x800 mm

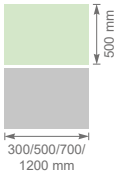
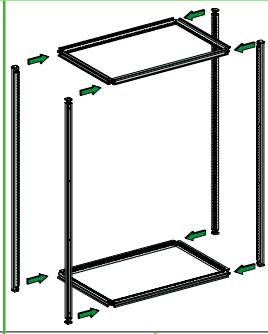


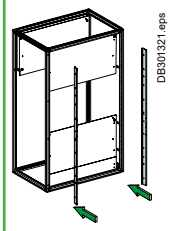
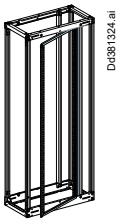
Switchboard 4 - Enclosure for vertical busbar installation or cable management, W = 300

Enclosures

Frameworks

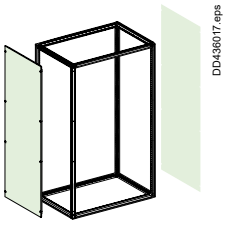
Mounting	Enclosures for front connection							
								
Width (mm)	**300**	**500**	**700**	**1200**	**300**	**500**	**700**	**1200**
	Depth 500 mm				**Depth 800 mm**			
Assembled enclosure plain door	**NSYSF20350ED**	-	**NSYSFP20750ED**	-	**NSYSF20380ED**	**NSYSF20580ED**	**NSYSFP20780ED**	**NSYSF2012802DED**
Assembled enclosure glazed door	-	-	**NSYSFP20750TED**	-	-	-	**NSYSFP20780TED**	-
Uprights for Linergy LGY mounting	**NSYSFPAED**	-	-	-	**NSYSFPAED +** **NSYSUCR40200**	-	-	-
Additional flanges for 5000 to 6300 A	-	-	-	-	-	**LVS03598** (2 flanges are included)	**LVS06569** (1 flange is included)	**LVS03599** (2 flanges are included)
Additional intermidiary uprights for Linergy 6300A	-	-	-	-	-	**LVS03589** (2 uprights are included)	**LVS03589** (2 uprights are included)	**LVS06500 +** **NSYVR18** (2 uprights are included)

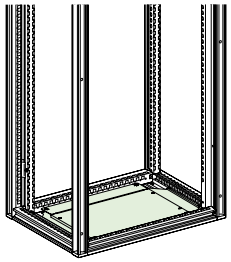
Mounting	Additional enclosure for rear							
								
Vertical uprights	NSYSFV20ED	NSYSFV20ED	NSYSFV20ED	NSYSFV20ED	-	-	-	-
Bottom and top frame with roof	NSYSFC35ED	NSYSFC55ED	NSYSFC75ED	NSYSFC125ED	-	-	-	-
Characteristics	▪ Cubicles can be combined side-by-side and back-to-back. ▪ Can be equipped with side panels (see next page).							

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

Enclosures

IP55 side panels

Mounting	Side panels							
								
Dimensions (mm)	**W = 300**	**W = 500**	**W = 700**	**W = 1200**	**W = 300**	**W = 500**	**W = 700**	**W = 1200**
Dimensions (mm)	**D = 500**				**D = 800**			
Side panels	**NSY2SP205ED**				**NSY2SP208ED**			
Characteristics	Supplied with quarter-turn fasteners.							

Mounting	Gland plates			
				
Dimensions (mm)	W = 300 mm	W = 500 mm	W = 700 mm	W = 1200 mm
D500	**NSYEC351**	**NSYEC551**	**NSYEC751**	**NSYEC125**
D800	**NSYEC381**	**NSYEC581**	**NSYEC781**	**NSYEC128**

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

F

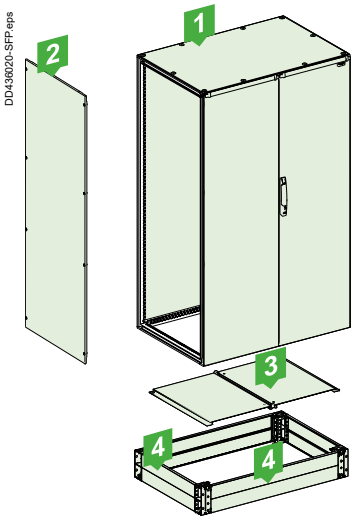
1200 mm width switchboard

For incomer switchboard with front connections.

- assembled Enclosure
- side panels = set of two panels
- gland plates (plain)
- plinth

Parts list for switchboard 1 (depth 800)

1	**NSYSF2012802D**	Spacial SF enclosure without mounting plate - assembled - 2000x1200x800 mm
2	**NSY2SP208**	Spacial SF external fixing side panels - 2000x800 mm
3	**NSYEC128**	Spacial SF plain cable gland plate - fixed by clips - 1200x800 mm
4	**NSYSPF12200**	Spacial SF/SM front plinth - 200x1200 mm
4	**NSYSPS8200**	Spacial SF/SM side panel plinth - 200x800 mm



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

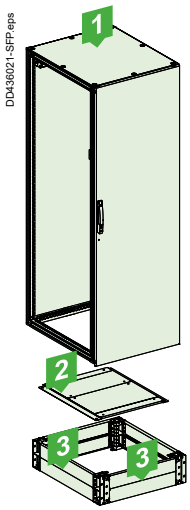
700 mm width switchboard

For switchboard with front connections.

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

Parts list for switchboard 2 (depth 800)

1	**NSYSFP20780G**	PrismaSeT 6300 - Enclosure PrismaSet FU - plain door - 2000x700x800mm - RAL7035
2	**NSYEC781**	Spacial SF 1 entry cable gland plate - fixed by clips - 700x800 mm
3	**NSYSPF7200**	Spacial SF/SM front plinth - 200x700 mm
3	**NSYSPS8200**	Spacial SF/SM side panel plinth - 200x800 mm



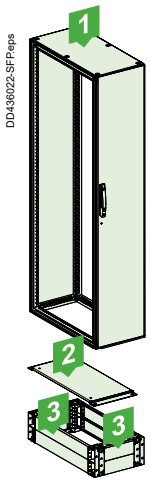
Switchboard 2 - Enclosure for the functional units, W = 700

500 mm width switchboard

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

Parts list for switchboard 3 (depth 800)

1	**NSYSF20580**	Spacial SF enclosure without mounting plate - assembled - 2000x500x800 mm
2	**NSYEC581**	Spacial SF 1 entry cable gland plate - fixed by clips - 500x800 mm
3	**NSYSPF5200**	Spacial SF/SM front plinth - 200x500 mm
3	**NSYSPS8200**	Spacial SF/SM side panel plinth - 200x800 mm



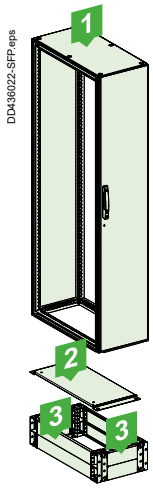
Switchboard 3 - Enclosure for vertical LGYE 6300 installation, W = 500, D = 800

300 mm width switchboard

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

Parts list for switchboard 4 (depth 800)

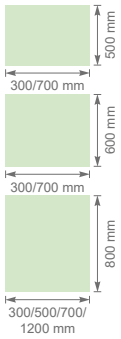
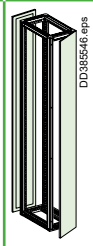
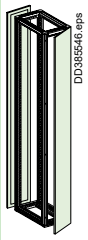
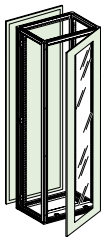
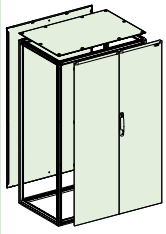
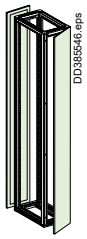
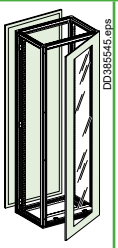
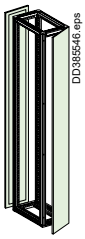
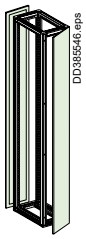
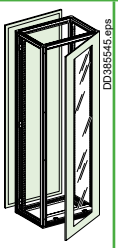
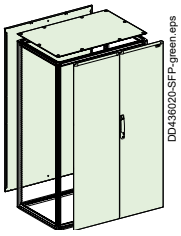
1	**NSYSF20380**	Spacial SF enclosure without mounting plate - assembled - 2000x300x800 mm
2	**NSYEC381**	Spacial SF 1 entry cable gland plate - fixed by clips - 300x800 mm
3	**NSYSPF3200**	Spacial SF/SM front plinth - 200x300 mm
3	**NSYSPS8200**	Spacial SF/SM side panel plinth - 200x800 mm

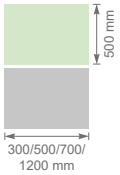
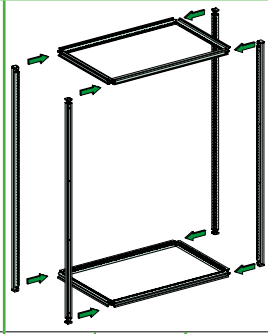


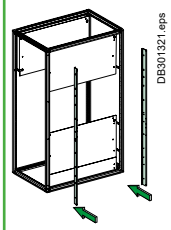
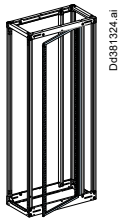
Switchboard 4 - Enclosure for vertical busbar installation or cable management, W = 300

Enclosures

Frameworks

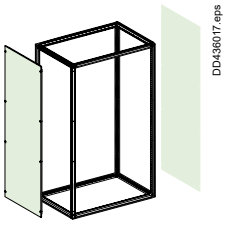
Mounting	Enclosures for front connection									
										
Width (mm)	**300**	**500**	**700**	**1200**	**300**	**700**	**300**	**500**	**700**	**1200**
	Depth 500 mm				**Depth 600 mm**		**Depth 800 mm**			
Assembled enclosure plain door	NSYSF20350	-	NSYSFP20750G	-	NSYSF20360	NSYSFP20760G	NSYSF20380	NSYSF20580	NSYSFP20780G	NSYSF2012802D
Assembled enclosure glazed door	-	-	NSYSFP20750TG	-	-	NSYSFP20760TG	-	-	NSYSFP20780TG	-
Uprights for Linergy LGY mounting	NSYSFPAED	-	-	-	NSYSFPAED + NSYSUCR40200	-	NSYSFPAED + NSYSUCR40200	-	-	-
Additional flanges for 5000 to 6300 A	-	-	-	-	-	-	-	**LVS03598** (2 flanges are included)	**LVS06569** (1 flange is included)	**LVS03599** (2 flanges are included)
Additional intermidiary uprights for Linergy 6300A	-	-	-	-	-	-	-	**LVS03589** (2 uprights are included)	**LVS03589** (2 uprights are included)	**LVS06500 + NSYVR18** (2 uprights are included)

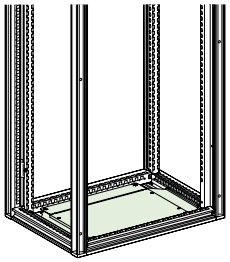
Mounting	Additional enclosure for rear									
										
Vertical uprights	NSYSFV20	NSYSFV20	NSYSFV20	NSYSFV20	-	-	-	-	-	-
Bottom and top frame with roof	NSYSFC35	NSYSFC55	NSYSFC75	NSYSFC125	-	-	-	-	-	-
Characteristics	▪ Cubicles can be combined side-by-side and back-to-back. ▪ Can be equipped with side panels (see next page).									

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

Enclosures

IP55 side panels

Mounting	Side panels									
										
Dimensions (mm)	**W = 300**	**W = 500**	**W = 700**	**W = 1200**	**W = 300**	**W = 700**	**W = 300**	**W = 500**	**W = 700**	**W = 1200**
Dimensions (mm)	**D = 500**				**D = 600**		**D = 800**			
Side panels	**NSY2SP205**				**NSY2SP206**		**NSY2SP208**			
Characteristics	Supplied with quarter-turn fasteners.									

Mounting	Gland plates			
				
Dimensions (mm)	W = 300 mm	W = 500 mm	W = 700 mm	W = 1200 mm
D500	**NSYEC351**	**NSYEC551**	**NSYEC751**	**NSYEC125**
D600	**NSYEC361**	-	**NSYEC761**	-
D800	**NSYEC381**	**NSYEC581**	**NSYEC781**	**NSYEC128**

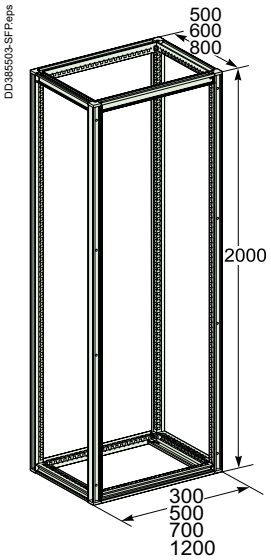
Note: Gland plates with 1 cable entry for W300/500/700 mm. No cable entry for W1200 mm.

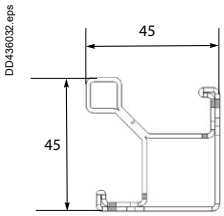
F

Enclosures
Dimensions

Dimensions

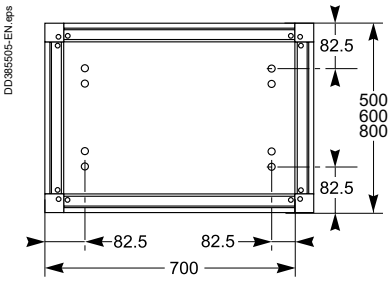
Frameworks





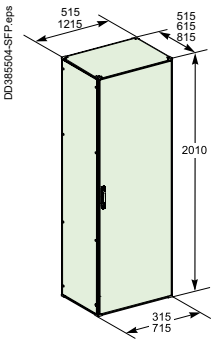
Fixing to floor

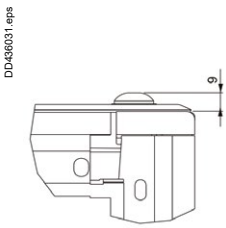
Without plinth



Cubicle with cover panels

Height

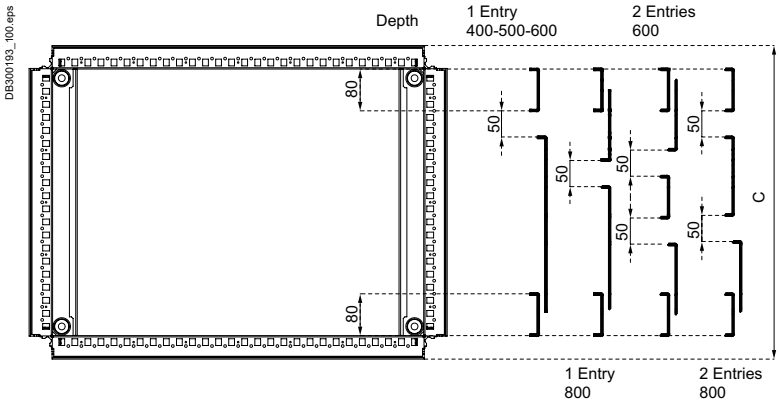




Enclosures
Dimensions

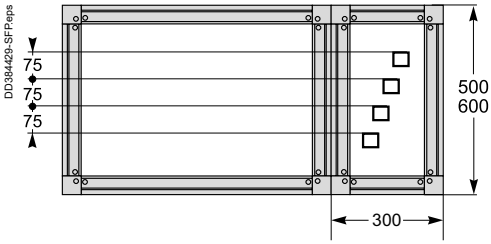
Dimensions

Gland plates

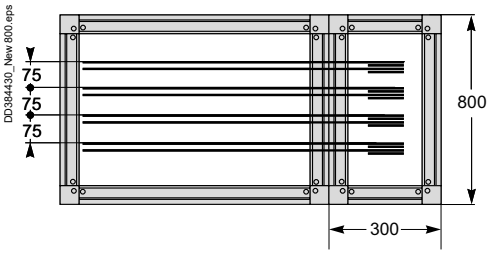


Busbars mounting, lateral vertical busbars

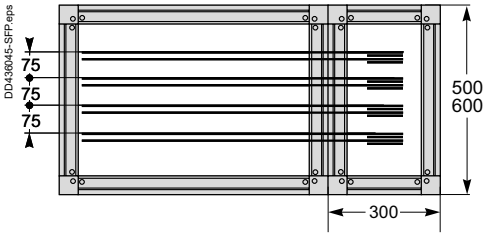
1600 A



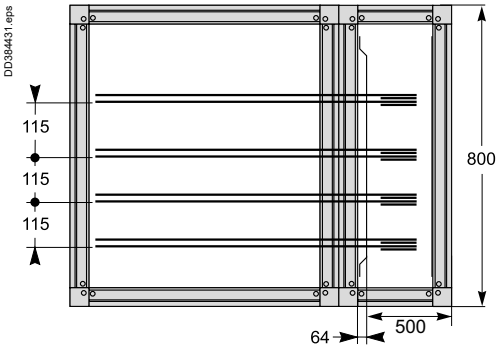
2500 A - up to 4000 A



2000 A



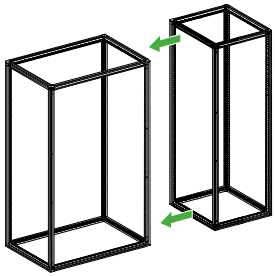
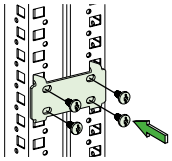
>4000 A - up to 6300 A

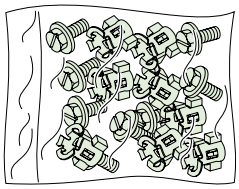


F

Accessories

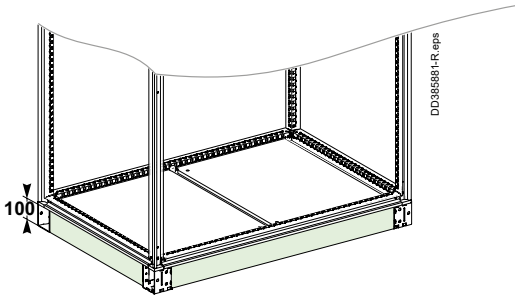
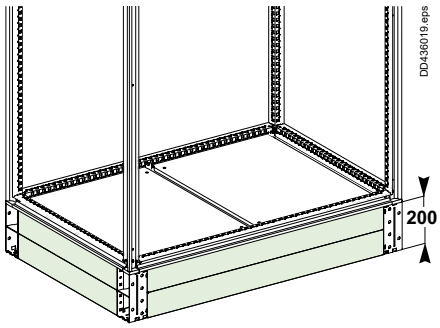
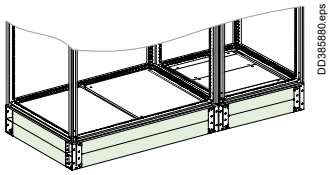
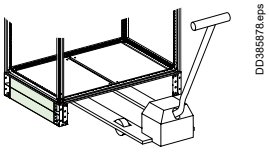
Coupling kit

	Coupling kit
	 DD385879.eps  DD385877.eps
Type	**Side-by-side or back-to-back**
Cat. no.	**NSYSFBK19**
Characteristics	Back-to-back association must be shipped individually and combined during on-site installation. Back-to-back combination: D800 - D500

	Accessories
	 Dd381327.eps
Type	**Commodities**
	Fixing screws and nuts
Cat. no.	**LVS08921**
Characteristics	Set of 20 screws

Accessories

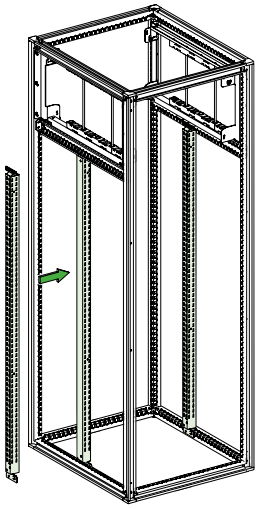
Plinth

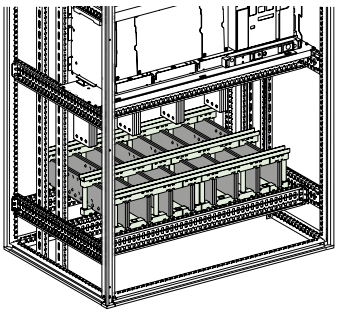
Mounting		Plinth H = 100 mm				Plinth H = 200 mm			
									
Dimensions (mm)		**W = 300**	**W = 500**	**W = 700**	**W = 1200**	**W = 300**	**W = 500**	**W = 700**	**W = 1200**
Front and rear cross-pieces	D = 500, 600 and 800	**NSYSPF3100**	**NSYSPF5100**	**NSYSPF7100**	**NSYSPF12100**	**NSYSPF3200**	**NSYSPF5200**	**NSYSPF7200**	**NSYSPF12200**
Lateral cross-pieces	D = 500	**NSYSPS5100**	**NSYSPS5100**	**NSYSPS5100**	**NSYSPS5100**	**NSYSPS5200**	**NSYSPS5200**	**NSYSPS5200**	**NSYSPS5200**
	D = 600	**NSYSPS6100**	-	**NSYSPS6100**	-	**NSYSPS6200**	-	**NSYSPS6200**	-
	D = 800	**NSYSPS8100**	**NSYSPS8100**	**NSYSPS8100**	**NSYSPS8100**	**NSYSPS8200**	**NSYSPS8200**	**NSYSPS8200**	**NSYSPS8200**
Characteristics		The plinth is made up of two catalogue numbers: ▪ one catalogue number comprising four corner posts + two cross-pieces (front and rear), that can be used in side-by-side combinations or stacked to form a plinth 200 mm high (maximum) ▪ one catalogue number comprising two side plates (500, 600 or 800 mm). Each catalogue number is supplied with the necessary hardware.							
Examples		 Side-by-side combination of two cubicles with a plinth.				 The front and rear cross-pieces can be easily removed for a pallet-mover.			

F

Accessories

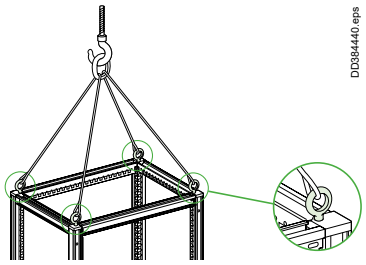
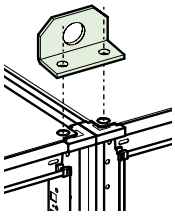
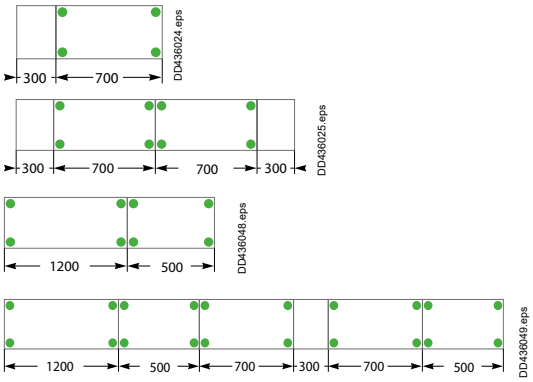
Vertical Column Support

Mounting	Vertical Column Support							
	 DD436038.eps							
Width (mm)	300	500	700	1200	300	500	700	1200
	Depth 500 mm				Depth 800 mm			
Cat. no.	-	-	-	-	-	LVS03589	LVS03589	-
Characteristics	▪ It is required only when horizontal LGYE 6300 busbar exist in the enclosure							

Mounting	Busbar Support Bracket							
	 DD436039.eps							
Width (mm)	300	500	700	1200	300	500	700	1200
	Depth 500 mm				Depth 800 mm			
Cat. no.	-	-	-	LVS04631	-	-	-	LVS04631

Accessories

Installation accessories

Mounting	Lifting rings	Lifting brackets
		
Cat. no.	**NSYSFEB**	**NSYSFELB**
Characteristics	▪ Set of four lifting rings screwed to the framework. ▪ Use a set of lifting rings for each framework containing devices. ▪ When two cubicles with devices have been combined, use a lifting beam. ▪ can be installed and removed without removing the roof ▪ even if they are left attached, the switchboard conserves its original degree of protection.  Positions of the lifting rings for two combined cubicles containing devices. In this case, a liftingbeam must be used.	▪ Made up of four blocks under the framework ▪ Suitable for all types of cubicles, whatever the width and depth ▪ Increases the stability of the cubicle during mounting of devices ▪ Makes possible cubicle handling using a pallet mover or a forklift ▪ Protects the front, side and rear cover panels during handling ▪ Can be reused.

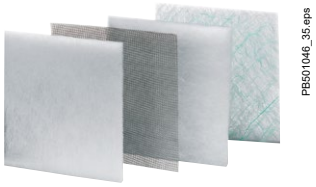
Accessories

Ventilation accessories

Others

Forced-air ventilation		560 m³/hr (1)	850 m³/hr (1)
Cat. no.		**NSYCVF560M230PF**	**NSYCVF850M230PF**
Unimpeded throughput via filter (m³/hr)	50 Hz	562	838
	60 Hz	586	803
Throughput via outlet grill (m³/hr)	50 Hz	473	718
	60 Hz	477	568
Power drawn (W) (max. intensity (A))		68/85 (0.52/0.370)	150/195 (0.65/0.85)
Noise level (dB (A))		59/59	76/75
External dimensions (cutting)		336 x 316 x 161 (291 x 291)	336 x 316 x 162 (291 x 291)
Weight (kg)		3.2	4.1
Operating temperature		-15...+60 °C	-15...+60 °C

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

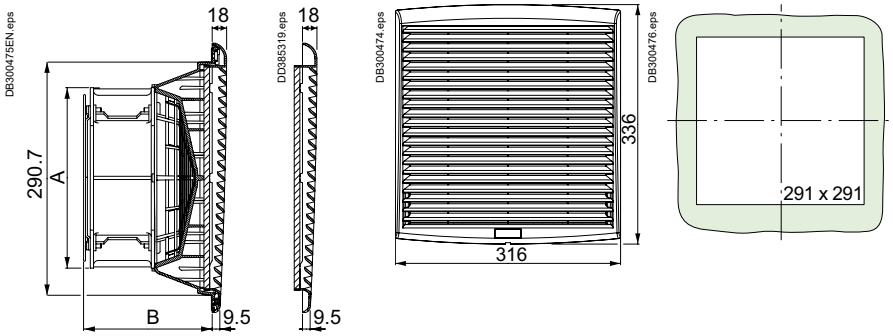
Filters for outlet grill		
		
G2 M1 standard filters	**NSYCAF291**	**NSYCAF291**
G3 M1 fine filters	**NSYCAF291T**	**NSYCAF291T**
Characteristics	Set of 5 (for replacement) Synthetic filters	

(1) For application 6300 A use this references.
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	**NSYCVF560M230PF**
280	192	**NSYCVF850M230PF**

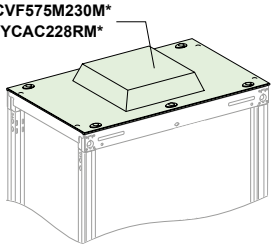
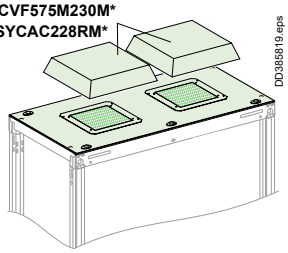
NSYCVF560M230PF - NSYCVF850M230PF



Accessories

Roof installation

Others

Roof ventilation	Width 500 and 700	Width 1200
	NSYCVF575M230M* or NSYCAC228RM* 	2 x NSYCVF575M230M* or 2 x NSYCAC228RM* 
Forced ventilation top hood with fan		
Catalogue numbers	**NSYCVF575M230MF** (RAL7035 Grey) / **NSYCVF575M230MB** (RAL9003 White)	
Characteristics	**Fan characteristics** ▪ Power: 575 W ▪ Input voltage: 230 V ▪ Throughput via outlet grill: □ with 1 outlet grill: 350 m³/hr □ Free with filter: 575 m³/hr □ Finishing parts: painted with epoxy-polyester resin ▪ Noise level: 64 dB.	
Natural ventilation top hood without fan		
Catalogue numbers	**NSYCAC228RMF** (RAL7035 Grey) / **NSYCAC228RMB** (RAL9003 White)	
Characteristics	▪ Material: steel ▪ Finishing parts: painted with epoxy-polyester resin ▪ IP54 ▪ Fixing to the top by means of caged nuts and special screws	
Air-flow cross section = 304 cm² without electrical fan		2 x 304 cm²

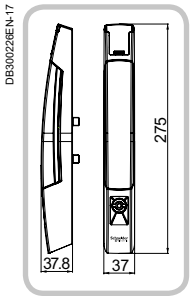
F

Accessories

Door handles and locks

Others

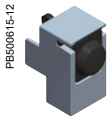
Locking system



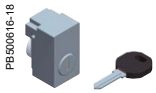
Characteristics	Handle for shape inserts and cylindrical barrels
	Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
Material	Handle: polyamide 6 with 30 % fibreglass, RAL 9005 colour
Mechanical protection rating	IK10
Fire resistance	650°C
Supply	Standard handle and fixing elements (insert not included)
References	
	NSYSFHS1

Accessories

Shape inserts



Push button



Cylindrical barrels

Shape inserts	References
6-mm square insert	**NSYINS61**
Female 6-mm square insert	**NSYINS6G1**
7-mm square insert	**NSYINS71**
8-mm square insert	**NSYINS81**
Female 8-mm square insert	**NSYINS8G1**
8-mm square insert with slot	**NSYINS8H1**
6.5-mm triangular insert	**NSYINT61**
7-mm triangular insert	**NSYINT71**
8-mm triangular insert	**NSYINT81**
9-mm triangular insert	**NSYINT91**
10-mm triangular insert	**NSYINT101**
10-mm keyless hexagonal insert	**NSYINH31**
3-mm double-bar insert	**NSYINDB31**
5-mm double-bar insert	**NSYINDB51**
Daimler Benz insert	**NSYINBENZ1**
Fiat insert	**NSYINFIAT1**
Keyless USA slot insert	**NSYINUSA1**
Keyless 2 x 4 slot insert	**NSYIN241**
Crown insert	**NSYINCW1**
Push button	**Reference**
Push button	**NSYINPULS1**

Cylindrical barrels	References
405E key lock	**NSYIN405E1**
421E key lock	**NSYIN421E1**
455 key lock	**NSYIN4551**
1242E key lock	**NSYIN1242E1**
1332E key lock	**NSYIN1332E1**
2124E key lock	**NSYIN2124E1**
2131A key lock	**NSYIN2131A1**
2132A key lock	**NSYIN2132A1**
2331A key lock	**NSYIN2331A1**
2433A key lock	**NSYIN2433A1**
2452E key lock	**NSYIN2452E1**
3113A key lock	**NSYIN3113A1**
3122E key lock	**NSYIN3122E1**
3123A key lock	**NSYIN3123A1**
3131A1 key lock	**NSYIN3131A1**
3133A key lock	**NSYIN3133A1**
3422E key lock	**NSYIN3422E1**
3432E key lock	**NSYIN3432E1**
6101 key lock	**NSYIN6101**
EDF1300 key lock	**NSYINF1301**
EDF1400 key lock	**NSYINF1401**
Michelin 8079 keyless lock	**NSYINICHEL8791**
Michelin 8133 keyless lock	**NSYINICHEL8131**
Michelin 8376 keyless lock	**NSYINICHEL8371**
E1 keyless lock	**NSYINE11**

Linergy Distribution Systems

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Lateral profiles up to 1600 A G-5
Lateral profiles up to 6300 A G-6
Lateral flat busbars up to 3200 A G-8
Rear profiles up to 1600 A G-9
Rear flat busbars up to 1600 A G-10
Accessories G-11

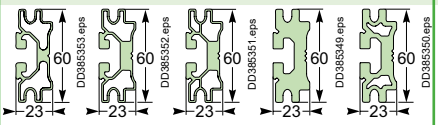
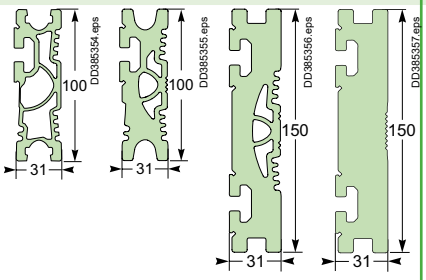
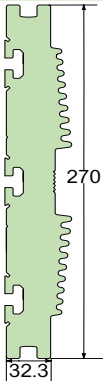
G

Linergy LGYE

Horizontal profiles up to 6300 A

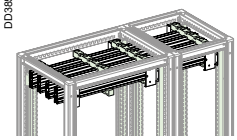
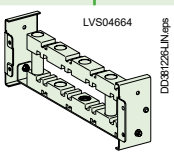
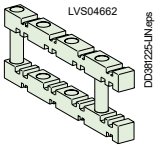
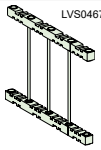
Power busbars

Linergy LGYE profiles

Installation		Up to 1600 A					Up to 4000 A				Up to 6300 A
Linergy profiles											
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A	6300 A
Permissible current for an ambient temperature of 35 °C around the switchboard (1)	IP ≤ 31	630 A	800 A	1000 A	1250 A	1650 A	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
Catalogue 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

Busbar supports

Installation		Up to 1600 A	Up to 4000 A		Up to 6300 A
	Fixed support				
	Free support				
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 — Number of supports depending on Icw (kA rms/1 s)	≤ 15	1*			-
	≤ 25	1*			-
	≤ 30	1*			-
	≤ 40	1*			-
	≤ 50	1*			-
	≤ 60	1*			-
	≤ 65	1 + 1			-
	≤ 75	1 + 1			-
	≤ 85	1 + 1			-
	≤ 100	-	1 + 1		-
Catalogue numbers	Fixed support	**LVS04664**	**LVS04664 + LVS04671 (order 1 per support)**	**LVS04664 + LVS04646 (sold in lots of 12 spacers)**	-
	Free support	**LVS04662**	**LVS04662 + LVS04671 (order 1 per support)**	**LVS04662 + LVS04646 (sold in lots of 12 spacers)**	-

Linergy LGYE
Horizontal profiles up to 6300 A

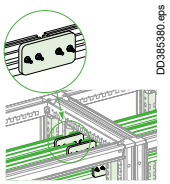
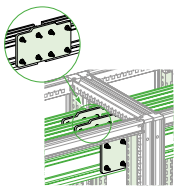
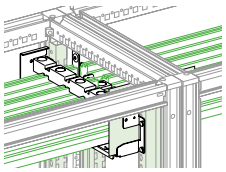
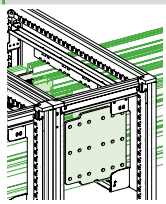
Power busbars

Busbar supports

Installation			Up to 1600 A	Up to 4000 A		Up to 6300 A
In cubicle: PrismaSeT 6300 W500	Number of supports depending on Icw (kA rms/1 s)	≤ 15	-			2*
		≤ 25	-			2*
		≤ 30	-			2*
		≤ 40	-			2*
		≤ 50	-			2*
		≤ 60	-			2*
		≤ 65	-			2*
		≤ 75	-			2*
		≤ 85	-			2*
		≤ 100	-	2 + 1		2*
	Catalogue 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 Icw (kA rms/1 s)	≤ 15	2			-
		≤ 25	2			-
		≤ 30	2			-
		≤ 40		2		-
		≤ 50		2	2	-
		≤ 60	-	2+1		-
		≤ 65	-	2+1		-
		≤ 75	-	2+1		-
		≤ 85	-	2+1		-
		≤ 100	-	-	2+2	2+2
	Catalogue 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 Icw (kA rms/1 s)	≤ 15	-			**2**
		≤ 25	-			**2**
		≤ 30	-			**2**
		≤ 40	-			**2**
		≤ 50	-			**2+3**
		≤ 60	-			**2+3**
		≤ 65	-			**2+3**
		≤ 75	-			**2+3**
		≤ 85	-			**2+3**
		≤ 100	-			**2+3**
	Catalogue numbers	Fixed support	-			**LVS04660 + NSYSUCR6580**
		Free support	-			**LVS04675**

Note: ** no free support with vertical busbar cubicle*

Linergy LGYE profiles

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	 DD385380.eps		 DD385381.eps			 DD385382.eps				
Catalogue 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 LVS**04624** is compulsory when installing jointed Linergy LGYE 4P busbars and must be fitted where the frames meet. When installed at the bottom of a cubicle, the busbar must be partitioned.									Busbar should be partitioned properly and linked using **LVS04625** with torque (28 Nm). Sold with shrinkable nuts M8 + insert studs

G

Linergy BS

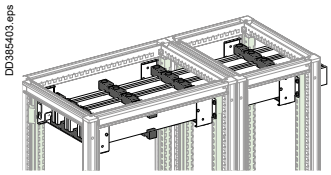
Horizontal flat busbars up to 4000 A

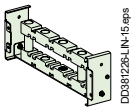
Power busbars

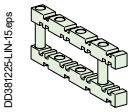
Flat busbars

Installation in PrismaSeT 6300		Up to 1600 A				Up to 4000 A					
Copper bar, 2000 mm length											
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1800 A	2050 A	2300 A	2820 A	3300 A	3760 A
	IP > 31	750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A	2900 A	3340 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of busbars per phase		1	1	2	2	1	2	2	2	2	2
Total number of vertical modules (50 mm)		3									4
Cat. no.		LVS04536	LVS04538	LVS04536	LVS04538	LVS04548	LVS04545	LVS04546	LVS04548	LVS04550	LVS04552

Busbar supports

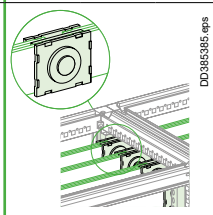
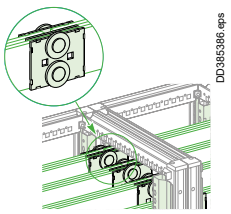
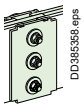






In cubicle: PrismaSeT 6300 W700 with 75 mm distance between bars	Characteristics		2 fixed supports for PrismaSeT 6300 700 wide frame are compulsory. 1 fixed support for 300 wide frame are compulsory. If more supports are needed, add free supports.								
	Number of supports depending on Icw (kA rms/1 s)	≤ 15	2								
		≤ 25	2+1	2							
		≤ 30	2+1		2						
		≤ 40	2+1				2				
		≤ 50	-	2+1					2		
		≤ 60	-				2+1				
		≤ 65	-				2+1				
		≤ 75	-				2+2	2+1			
		≤ 85	-				-		2+1		
	Cat. no.	Fixed support	**LVS04664**				**LVS04664**			**LVS04664 + LVS04671**	
		Free support	**LVS04662**				**LVS04662**			**LVS04662 + LVS04671**	
In duct: PrismaSeT 6300 W300 with 75 mm distance between bars	Number depending on Icw (kA rms/1 s)	≤ 30	1								
		≤ 50	1+1				1				
		≤ 85	-				1+1				
	Cat. no. depending on depth	Fixed support	**NSYBHS500 (D500) NSYBHS600 (D600) or NSYBHS800 (D800)**				**NSYBHS500 (D500) NSYBHS600 (D600) or NSYBHS800 (D800)**			**NSYBHS800 (D800) + LVS04671**	
		Free support	**LVS04662**				**LVS04662**			**LVS04662 + LVS04671**	
In cubicle: PrismaSeT 6300 W700 with 115 mm distance between bars	Number depending on Icw (kA rms/1 s)	≤ 30	-				2				
		≤ 40					2+1		2		
		≤ 60					2+1				
		≤ 75					2+2		2+1		
		≤ 85					-	2+2	2+1		
	Cat. no.	Fixed support					**NSYBHS800L**			**NSYBHS800L + LVS04671 (fixings)**	
		Free support					**LVS04678**			**LVS04678 + LVS04671 (fixings)**	
In duct: PrismaSeT 6300 W300 with 115 mm distance between bars	Number depending on Icw	≤ 50	-				1				
		≤ 85					2				
	Cat. no.	Fixed support					**NSYBHS800L**			**NSYBHS800L + LVS04671 (fixings)**	
		Free support					**LVS04678**			**LVS04678 + LVS04671 (fixings)**	

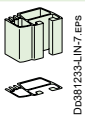
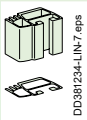
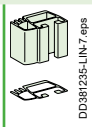
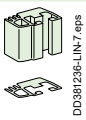
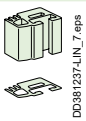
Joints

Installation in PrismaSeT 6300	Up to 1600 A				Up to 4000 A					
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase				
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with self-breaking lock nut	LVS04640			LVS04641						
										
Cat. no.	LVS04640	LVS04641	LVS04640	LVS04641	LVS04641	LVS04640	LVS04640	LVS04641	LVS04641	LVS04643

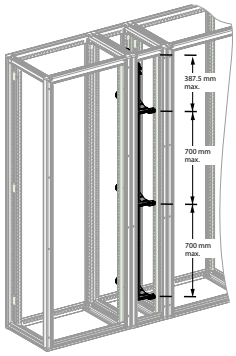
Note: When installed at the bottom of a cubicle, the busbar must be partitioned.

Linergy LGY
Lateral profiles up to 1600 A

Linergy LGY profiles

		Up to 1600 A (single busbar)				
In PrismaSeT 6300 duct		**W300**				
Linergy profile, 1670 mm length		 DD381233-LIN-7.EPS	 DD381234-LIN-7.eps	 DD381235-LIN-7.eps	 DD381236-LIN-7.eps	 DD381237-LIN_7.eps
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		**LVS04502**	**LVS04503**	**LVS04504**	**LVS04505**	**LVS04506**

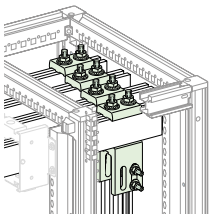
Busbar supports



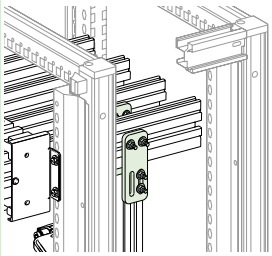
DD385383.eps

		DD380741.eps Fixed support LVS04651				
Characteristics		DD380742-LIN-12.eps An end stop must be fitted on the bottom support: LVS01109 (sold in lots of 12)				
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 Linergy BS horizontal busbar

		 DD385409.eps		
Characteristics		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**		
	10 mm thick, Width > 80 mm	**LVS04636 + LVS04642** **LVS04638 + LVS04642**		

Connections to the Linergy LGYE horizontal busbar

	 DD385387.eps ≤ 1600 A
Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.
Cat. no.	**LVS04602 (vertical connection)** **LVS04603 (vertical shifted connection)** (1)

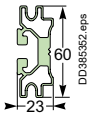
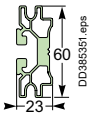
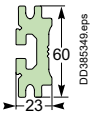
(1) Dedicated connection LVS04603 for Linergy LGYE busbar in 150 mm duct with horizontal jointing.

G

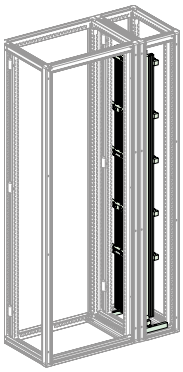
Linergy LGYE
Lateral profiles up to 6300 A

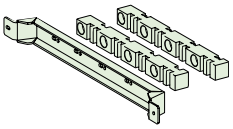
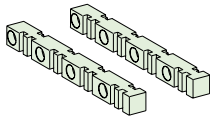
Power busbars

Linergy LGYE profiles

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

Busbar supports



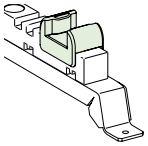
				
		Fixed support for current ratings less then 4000A: NSYBVS500	Fixed Support for 4000A and above 6300A: LVS04654	Free support up to 4000A: LVS04662
Characteristics		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).		
Number depending on Icw (kA rms/1 s)	≤ 30	3		
	≤ 40	-	3+2	
	≤ 50	-		3+2
	≤ 60	-		3+2
	≤ 65	-		
	≤ 75	-		
	≤ 85	-		
	≤ 100	-		

Cat. no. of supports depending on distance between bars and duct depth	PrismaSeT 6300 duct 75 mm = HBB <6300 A distance between bars	W300, D500	**NSYBVS500 (fixed) + LVS04662 (free) + NSYAS500 (bottom)** (1)
		W300, D600	**NSYBVS600 (fixed) + LVS04662 (free) + NSYAS600 (bottom)** (1)
		W300, D800	**NSYBVS800 (fixed) + LVS04662 (free) + NSYAS800 (bottom)** (1)
	PrismaSeT 6300 duct 115 mm = HBB 6300 A distance between bars	W300, D800	**LVS04649 (fixed) + LVS04678 (free) + LVS04648 (bottom)** (1)
		W500, D800	**LVS04654 (fixed) + LVS04655 (bottom)**

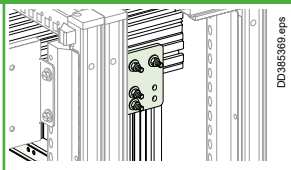
(1) If using a 100 x 10 bars, add a pack of screws ref. LVS04671 for each fixed support and free support.

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

Wedging busbars in position

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

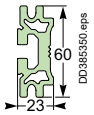
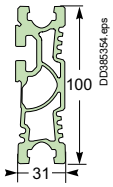
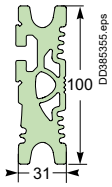
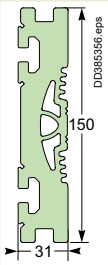
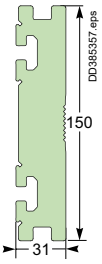
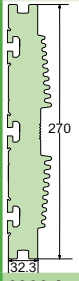
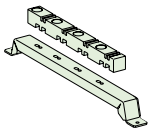
Connections to the Linergy LGYE horizontal busbar

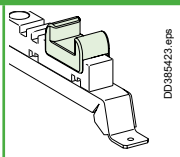
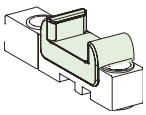
	 2000/2500 A
Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.
Cat. no.	**LVS04604 (short connection)** **LVS04605 (long connection)**

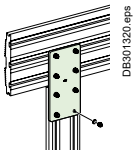
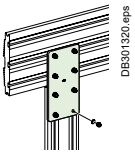
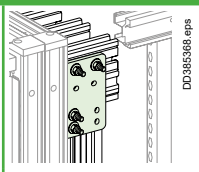
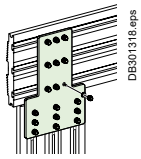
Linergy LGYE

Lateral profiles up to 6300 A

Power busbars

					W500
					
1600 A	**2000 A**	**2500 A**	**3200 A**	**4000 A**	**6300 A**
1480 A	1650 A	2100 A	2800 A	3620	5550*
1650 A	2000 A	2440 A	3200 A	3350	6300**
			1625 mm		1690 mm
LVS04564	**LVS04565**	**LVS04566**	**LVS04509**	**LVS04510**	**LVS04582**
					500 mm
					
		Bottom Support for current ratings less then 4000A: NSYAS500		Bottom Support for 4000A and above 6300A: LVS04655	
					-
	3				-
	3				-
			3		-
3+2					-
3+4			3+2		-
3+4					-
		3+6			6 / 5***

	 Wedge fitted on bottom support	 Wedge fitted on bottom support
	LVS04659 (pack of 12 replacement stops)	**LVS04655 (Included with busbar support kit)**

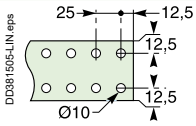
	 2500 A	 3200/4000 A	 3200/4000 A	 6300 A
	3*LVS04639 (3P) 4*LVS04639 (4P)	**3*LVS04622 (3P) 4*LVS04622 (4P)**	**LVS04607 + 1*LVS04633 (3P) 1*LVS04633 (4P) + LVS04633**	**3*LVS04627 (3P) 4*LVS04627 (4P)**

Linergy BS

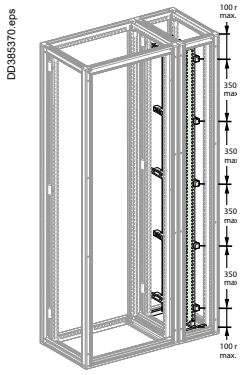
Lateral flat busbars up to 3200 A

Power busbars

Flat busbars

		Up to 1600 A				Up to 3200 A						
In PrismaSeT 6300 duct		**W300 D500/800**				**W300 D500/800**						
Pre-slotted copper, 1675 mm length												
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3200 A
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Number of busbars per phase		1		2		1			2			
Cat. no.		LVS04516	LVS04518	LVS04516	LVS04518	LVS04525	LVS04526	LVS04528	LVS04525	LVS04526	LVS04528	LVS04550 (1)

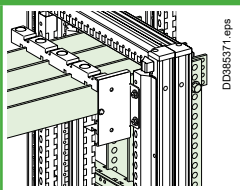
Busbar supports

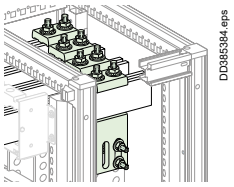


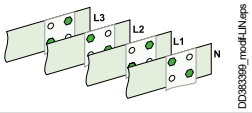
Description		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.										
Number of supports depending on Icw (kA rms/1 s)	≤ 15	3				3						
	≤ 25	3+2			3	3						
	≤ 30	3+2				3+2					3	
	≤ 40	3+4		3+2		3+2						
	≤ 50		3+4			3+2						
	≤ 60					3+4					3+2	
	≤ 65					3+4					3+2	
	≤ 75						3+6		3+4			
	≤ 85									3+4		
Cat. no. of supports depending on distance between bars and duct depth	PrismaSeT 6300 duct 75 mm distance between bars — W300, D500	**NSYBVS500 (fixed) + LVS04662 (free) + NSYAS500 (bottom)** (2)										
	PrismaSeT 6300 duct 75 mm distance between bars — W300, D500	**NSYBVS600 (fixed) + LVS04662 (free) + NSYAS600 (bottom)** (2)										
	PrismaSeT 6300 duct 75 mm distance between bars — W300, D800	**NSYBVS800 (fixed) + LVS04662 (free) + NSYAS800 (bottom)** (2)										
	PrismaSeT 6300 duct 115 mm distance between bars — W300, D800	**NSYBVS800L (fixed) + LVS04678 (free) + NSYAS800L (bottom)** (2)										

(1) Copper bar without holes.
*(2) If using a 100 x 10 bars, add a pack of screws ref. **LVS04671** for each fixed support and free support.*

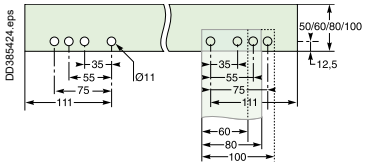
Connections to the Linergy BS horizontal busbar



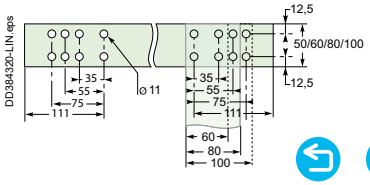


Characteristics		For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(3) 				References LVS04636, LVS04637, LVS04638 are supplied individually: 1 connection per phase. Reference LVS04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.						
		1 vertical bar per phase		2 vertical bars per phase		1 vertical bar per phase			2 vertical bars per phase			
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Cat. no. of the connection piece depending on horizontal busbar size	≤ 80 mm	**LVS04645**				**LVS04636**		LVS04637	**LVS04637**			**LVS04645**
	> 80 mm	**LVS04645**				**LVS04636 + LVS04642**		LVS04637 + LVS04642	**LVS04637 + LVS04642** **LVS04638 + LVS04642**			**LVS04645**

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



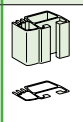
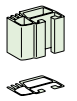
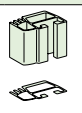
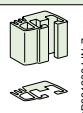
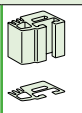
Drill hole dimensions for 10 mm thick horizontal busbars.



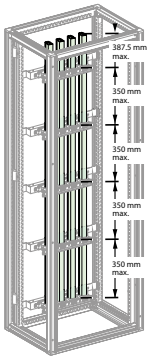
Linergy LGY
Rear profiles up to 1600 A

Power busbars

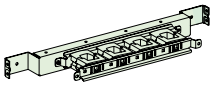
Linergy LGY profiles

		Up to 1600 A				
At the rear of a PrismaSeT 6300 cubicle		W700				
Linergy profile, 1670 mm length		 DD381233-LIN-7.eps	 DD381234-LIN-7.eps	 DD381235-LIN-7.eps	 DD381236-LIN-7.eps	 DD381237-LIN_7.eps
		630 A	800 A	1000 A	1250 A	1600 A
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		LVS04502	LVS04503	LVS04504	LVS04505	LVS04506

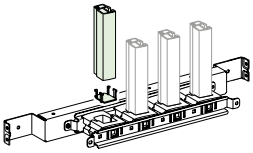
Busbar supports



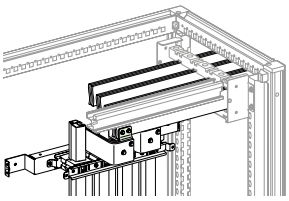
DD385374.eps


DD381242-LIN.eps

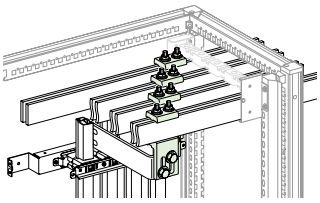
Fixed support LVS04652

Number depending on Icw (kA rms/1 s)	≤ 25	3				
	≤ 30		4			
	≤ 40			5		
	≤ 50				7	
Characteristics		 DD381243-LIN.eps An end stop must be fitted on the bottom support LVS01109 (sold in lots of 12)				
Cat. no.		LVS04652				

Connections to the Linergy BS horizontal flat busbar


DD385372.eps

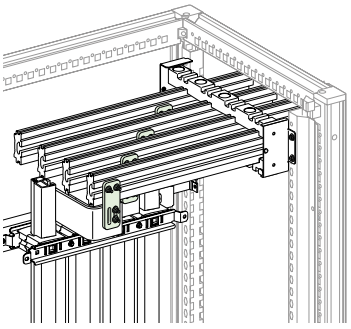
LVS04635 connection to 5 mm thick horizontal busbar


DD385373.eps

LVS04636 connection to 10 mm thick horizontal busbar

Characteristics			Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Cat. no. according to horizontal busbar size	5 mm thick		LVS04635
	10 mm thick	Width ≤ 80 mm	LVS04636
		Width > 80 mm	LVS04636 + LVS04642

Connections to the Linergy LGYE horizontal flat busbar


DD385375.eps

LVS04602 connection to the Linergy LGYE horizontal flat busbar

Characteristics	Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Cat. no.	LVS04602

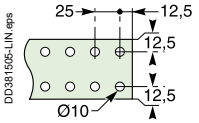
G

Linergy BS

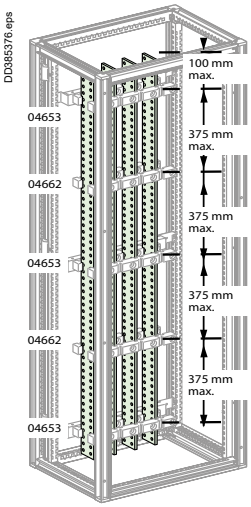
Rear flat busbars up to 1600 A

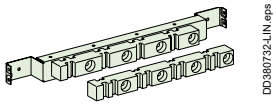
Power busbars

Flat busbars

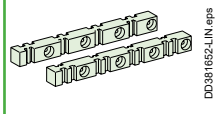
		Up to 1600 A					
At the rear of a PrismaSeT 6300 cubicle		**W700**					
Pre-slotted copper, 1670 mm length							
		800 A	**1000 A**	**1400 A**	**1000 A**	**1200 A**	**1600 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	-	-	-
	IP > 31	750 A	900 A	1250 A	1080 A	1250 A	1600 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2	1		
Cat. no		**LVS04516**	**LVS04518**	**LVS04516**	**LVS04525**	**LVS04526**	**LVS04528**

Busbar supports

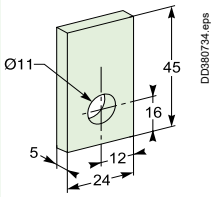




Fixed busbar support LVS04653



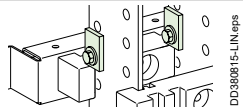
Busbar free support LVS04662



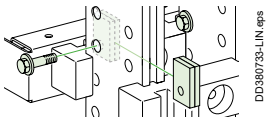
Mounting chocks LVS04669

Characteristics

3 fixed supports ref. LVS04653 are compulsory to keep the busbar vertical.
If more than 3 supports are needed, use free support ref. LVS04662 (in addition).
Metal shim ref. LVS04669 (sold in lots of 100), 5 mm thick, is screwed onto the busbar.
It rests on a fixed support and is used to wedge the busbar in position.



Wedging: 1 busbar/phase

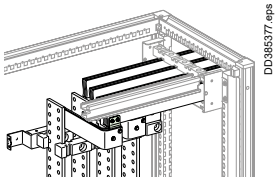


Wedging: 2 busbars/phase

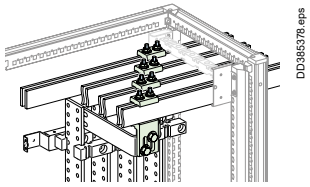
Number depending on Icw (kA rms/1 s)						
≤ 15	3				3	
≤ 25	3+2				3	
≤ 30	3+2				3+2	
≤ 40	3+4		3+2		3+2	
≤ 50		3+4			3+2	
≤ 60					3+4	
≤ 65					3+4	
≤ 75						3+6
≤ 85						

Cat. no. **LVS04653 (fixed) + LVS04662 (free) + LVS04669 (spacer)**

Connections to the Linergy BS horizontal flat busbar



LVS04635 connection to horizontal busbar
5 mm thick



LVS04636 connection to horizontal busbar
10 mm thick

Characteristics

For part of the connection, flexible insulated busbars are needed.
References LVS04635, LVS04636 are supplied individually = 1 connection per phase.
Reference LVS04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.

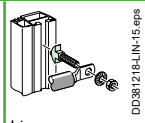
Cat. no. according to horizontal busbar size			
	5 mm thick		**LVS04635**
	10 mm thick	Width ≤ 80 mm	**LVS04636** (1)
		Width > 80 mm	**LVS04636 + LVS04642** (1)

(1) To be made.

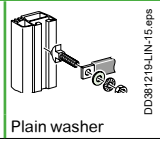
Linergy
Accessories

Power busbars

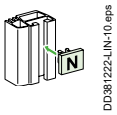
Accessories



Linergy screw



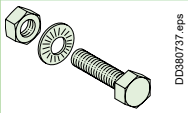
Plain washer



Identification

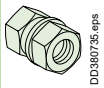
Linergy screw	Characteristics		Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.
	Cat. no.	25 mm length	see the table "Connections on Linergy LGYE & LGY" below
		39 mm length	
Steel plain washers	Characteristics		M8 sold in lots of 20
	Cat. no.	ext. Ø20 mm	**LVS04772**
		ext. Ø24 mm	**LVS04773**
		ext. Ø28 mm	**LVS04774**
Brass plain washers	Characteristics		M8 sold in lots of 20 for connection of y 25 mm² lugs to Linergy
	Cat. no.	ext. Ø20 mm	**LVS04775**
Identification	Characteristics		12 clip-on supports + N, L1, L2, L3, PE, PEN labels
	Cat. no.		**LVS04794**
	Characteristics		Linergy LGYE busbar screw plate kit after sales service
	Cat. no.		**LVS01130**

M8 bolts



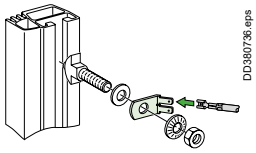
Linergy BS, 20 bolts 8.8 class	Characteristics		Set of 20 bolts + 20 nuts + 40 contact washers.
	Cat. no.	M8 x 20	**LVS04782**
		M8 x 25	**LVS04783**
		M8 x 30	**LVS04784**
		M8 x 35	**LVS04785**
		M8 x 40	**LVS04786**
		M8 x 45	**LVS04787**
		M8 x 50	**LVS04788**

Torque nuts



20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Cat. no.	**LVS04759**

Voltage tap-offs



20 M10 voltage tap-offs for two 6.35 mm tab connectors	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. LVS04775) between the busbar and the lug.
	Cat. no.	**LVS04229**

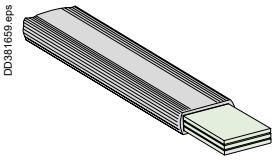
Connections on Linergy LGYE & LGY

InA (A)		Connection on Linergy	Utilisation	Cat no.	
0 to 630	Cable Insulated flexible bar	Use the 25 mm Linergy screw	Recommended	**LVS04766**	
		Use the 39 mm Linergy screw	Possible	**LVS04767** (1)	
800 to 1250	5 mm thick bar	Use the 25 mm Linergy screw	Recommended	**LVS04766**	
		Use the 39 mm Linergy screw	Possible	**LVS04767** (1)	
		Use the flate plate screw with 2 studs	Possible	**LVS04768**	
1600 to 2500	5 or 10 mm thick bar	Use the flate plate screw with 2 studs	Recommended	**LVS04768**	
		Use the 39 mm Linergy screw	Possible	**LVS04767** (1)	
3200 to 4000	10 mm thick bar	Use the flate plate screw with 3 screw plates	Recommended	**LVS04769**	
4000 to 6300	10 mm thick bar	Use the flate plate screw with 3 studs	Recommended	**LVS04770**	

*(1) **LVS04767** is only compatible with Linergy LGY.*

G

Insulated flexible bars



Secondary distribution

The insulated flexible bars are tested in a type-tested switchboard environment. Their design takes into account the switchboard architecture where they are often in close proximity to a protection device (circuit breaker or fuse) with significant heat losses.
The sizes for the flexible bars indicated below take into account the heat losses of Schneider Electric devices in a PrismaSeT switchboard.

Characteristics

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

Connection between device and busbars

The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.
The bar sizes indicated below take into account the derating curves of devices.

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

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

Functional Partitioning

Contents

Partitioning H-2

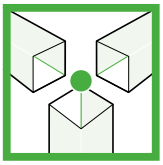
Form 1 partitioning H-3
Form 2 partitioning H-4
Form 3b partitioning H-6
Form 4 partitioning H-7

H

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.

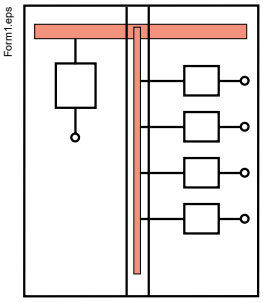
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

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.

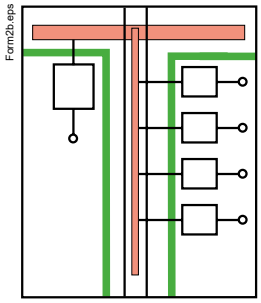
Form 1



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

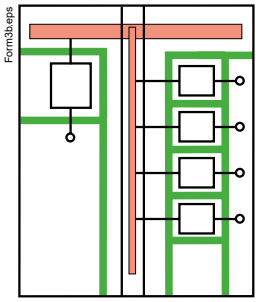
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

Form 2b



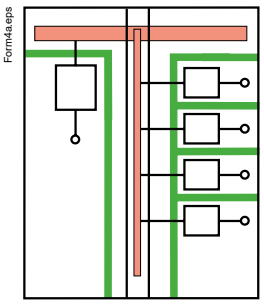
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

Form 3b *



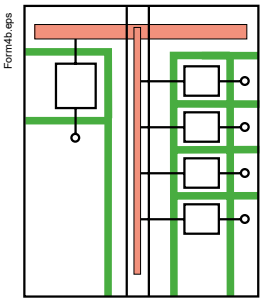
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

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.

Form 1 partitioning

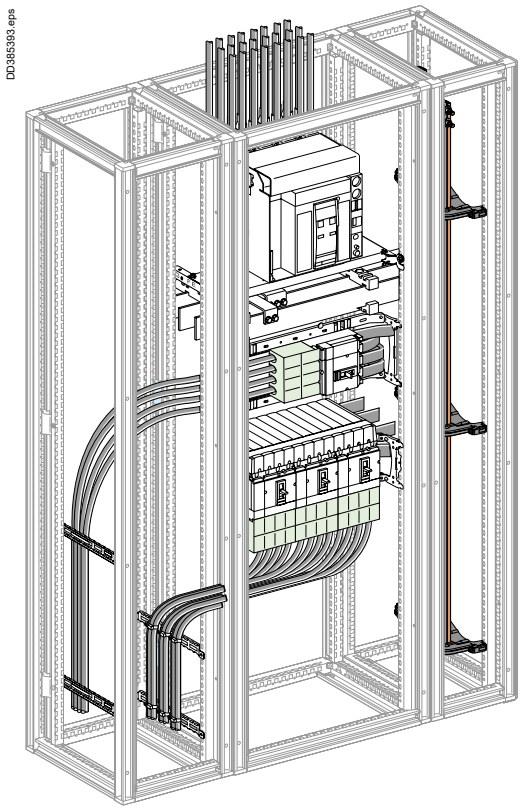
Presentation

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.



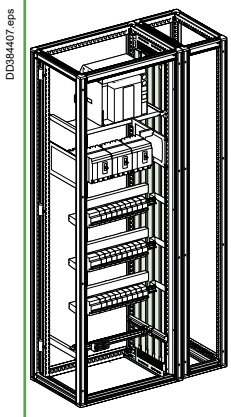
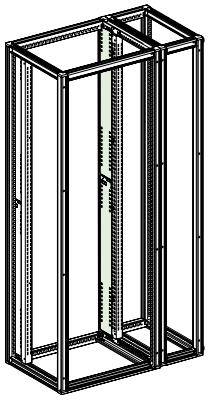
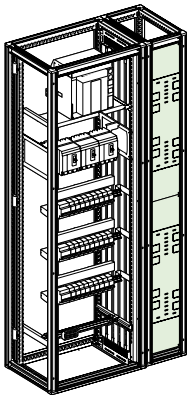
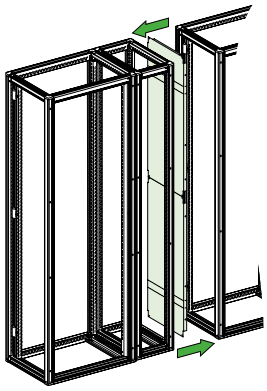
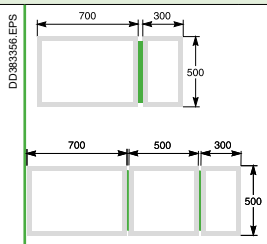
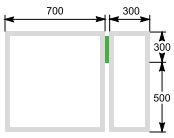
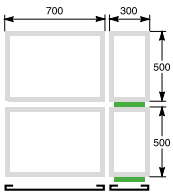
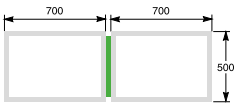
The protection of life and property is ensured by the systematic installation of terminal shields on ComPacT NSX circuit breakers and on ComPacT INS and INV switch-disconnectors (see the pages on the functional units).

H

Form 2 partitioning

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

Lateral partitioning

					
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 mm², while maintaining the degree of protection IP2X compliance with standard IEC 60695.2.1 concerning withstand to fire.	▪ This kit enables passage of the connection between a device > 1600 A (NW, INS) and lateral vertical busbars. ▪ It is made up of an insulated plate (six modules H 300 mm) that can be cut as required, supplied with supports and the necessary hardware.	▪ For the PrismaSeT 6300 system switchboards 800 mm depth (500 + 300), a partitioning extension for 300 mm depth is required.	▪ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends. ▪ Rear protection, a barrier is required at the rear of the busbar compartment in cubicles that are 800, 1000 and 1300 mm deep.	▪ Metal partition, used to separate two adjacent cubicles. ▪ It is made up of two panels, each 850 mm high. ▪ The top and bottom ends have knock-outs for horizontal busbars. ▪ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.
Cat. no.	**D500: LVS06545**	**LVS04924**	**D600: LVS06541** **D800: LVS06543**	**W300: LVS06540** **W500: LVS04990**	**D500: LVS06555** **D600: LVS04911 + LVS06541** **D800: LVS04911 + LVS06543** **D800: LVS04979** (1)

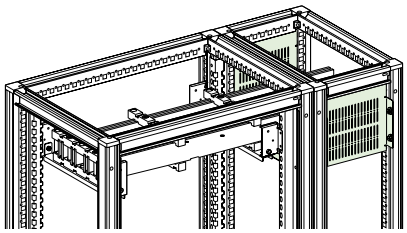
(1) For W1200 and W500 enclosures.

Form 2 partitioning

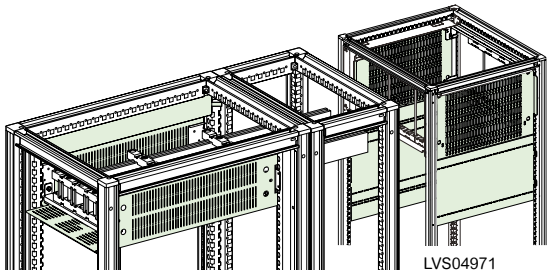
Form partitioning

Partitioning of horizontal busbars

DD384412.eps



DD384411.eps



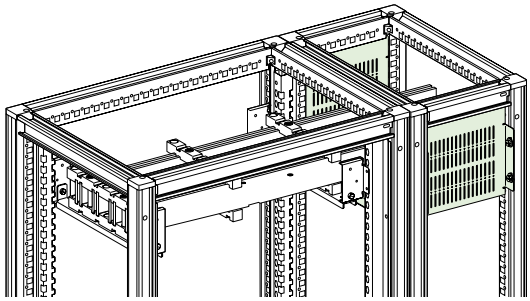
LVS04971

	W300			W700		
Designation	▪ Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard. ▪ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle. ▪ The space required for the busbars is not increased.					
For Depth	D500	D600	D800	D500	D600	D800
Cat. no. for 3M busbar	**LVS06560**	**LVS06561**	**LVS06563**	**LVS06570**	**LVS06570**	**LVS06570**
Cat. no. for 4M busbar	**LVS06568**	**LVS06568**	**LVS06568**	**LVS06567**	**LVS06567**	**LVS06567**
Cat. no. for 7M busbar	-	-	**LVS04969**	-	-	**LVS04971** (1)

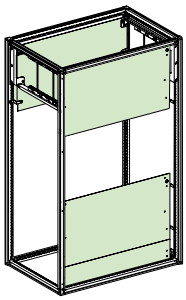
(1) Depending on circuit breaker connection to horizontal or vertical busbar, use the equivalent parts. For more details please refer to the detailed Instruction Sheet.
Note: *when the busbars are at the bottom of the cubicle, gland plates are mandatory.*

Partitioning of horizontal busbars

DD384412.eps



DB301332.eps



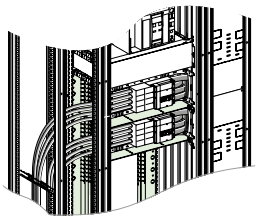
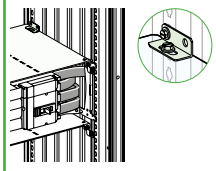
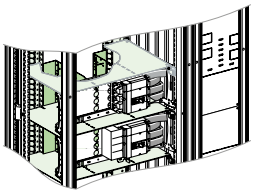
	W500		W1200	
Designation	▪ Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard. ▪ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle. ▪ The space required for the busbars is not increased.		▪ Set of four barriers (front and rear). ▪ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle and to partition the MTZ3 copper connections. ▪ The space required for the busbars is not increased.	
For Depth	D500	D800 or D800+D500	D500	D800 or D800+D500
Cat. no. for 3M busbar	**NA**	-	**NA**	-
Cat. no. for 7M busbar	-	**LVS04970**	-	**LVS04972**

H

Form 3b partitioning

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

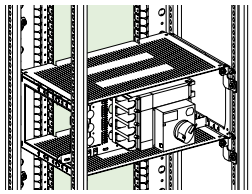
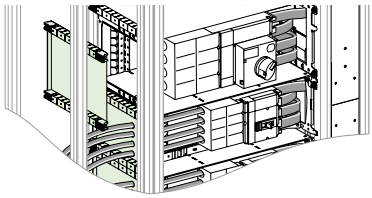
- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

	Front connection			Rear connection	
	DD384420.eps 	DD384422.eps 	DD384421.eps 		
	Horizontal metal partition, W650 mm	**Rear support for partitions, W650 mm**	**6 universal angle brackets**	**Rear connection**	
Characteristics	▪ A horizontal metal partition can be used to physically separate functional units from one another.	▪ It is fixed at the rear by a support (two uprights) secured to the framework (500 mm deep) or to the intermediate uprights (800 mm deep frameworks).	▪ A set of brackets can be used to install partial Form 3 partitioning in the cubicle. ▪ It does not take up any useful space in the switchboard.	▪ Vertical partitions (two cat. no. per functional unit) 3 to 4 modules	5 to 6 modules
Cat. no.	**LVS04901**	**LVS04943**	**LVS03583**	**LVS04955**	**LVS04956**

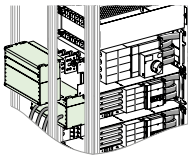
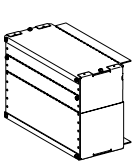
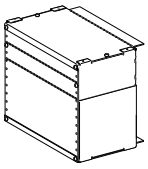
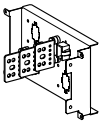
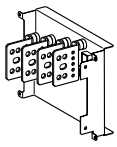
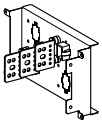
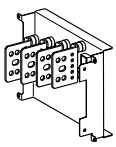
Form 4 partitioning

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

Form 4a partition

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

Form 4b partition

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

H

Additional Information

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After-sales accessories I-2
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Designing vertical busbars - Linergy LGY I-5
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After-sales accessories

Spare parts

RAL 9003 Doors

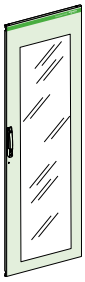
Plain door

DB301334.eps

PrismaSeT 6300 - plain door H2000 W700 RAL 9003	**NSYSFD207ED**
PrismaSeT 6300 - plain door H2000 W700 RAL 9003	**NSYSFD203ED**

Transparent door

DB301335.eps



PrismaSeT 6300 - transparent door H2000 W700 RAL 9003	**NSYSFD207TED**

RAL 7035 Doors

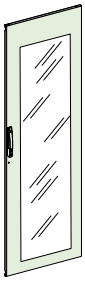
Plain door

DB301339.eps

PrismaSeT 6300 - plain door H2000 W700 RAL 7035	**NSYSFD207G**
PrismaSeT 6300 - plain door H2000 W700 RAL 7035	**NSYSFD203**

Transparent door

DB301340.eps



PrismaSeT 6300 - transparent door H2000 W700 RAL 7035	**NSYSFD207TG**

SE Green Signature

Plain sticker

DB301336.eps

PrismaSeT 6300 - SE Green signature for W300 RAL 7035 enclosures	**NSYSFSEGS300**
PrismaSeT 6300 - SE Green signature for W500 RAL 7035 enclosures	**NSYSFSEGS500**
PrismaSeT 6300 - SE Green signature for W700 RAL 7035 enclosures	**NSYSFSEGS700**
PrismaSeT 6300 - SE Green signature for W1200 RAL 7035 enclosures	**NSYSFSEGS1200**

Designing horizontal busbars
Linergy LGYE

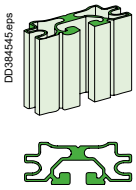
Permissible current and selection of Linergy LGYE busbars
Up to 6300 A

Linergy LGYE section

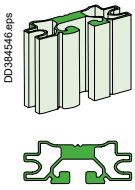
Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGYE 630	680	580	650	550	630	530	590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

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

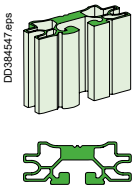
Note: * No need to have fan for 500 and 300 mm cable duct.
** Ask to Schneider Electric.



Section 630 A.
Cat. No. LVS04560.



Section 800 A.
Cat. No. LVS04561.



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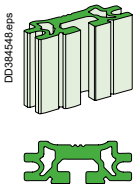
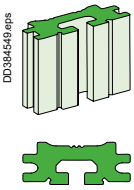
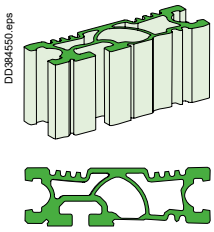


Section 1250 A.
Cat. No. LVS04563.



Section 1600 A.
Cat. No. LVS04564.



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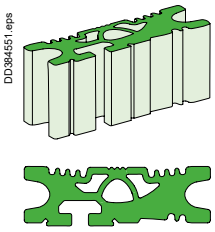
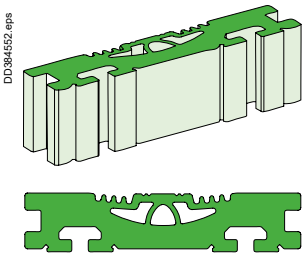
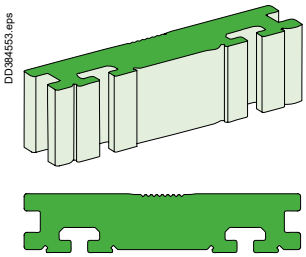


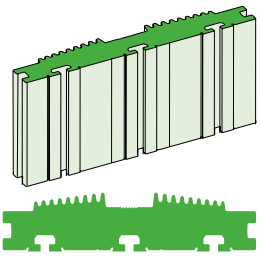
Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.



Section 4000 A.
Cat. No. LVS04568.



Section 6300 A.
Cat. No. LVS04582.

Designing horizontal busbars
Linergy BS

Permissible current and selection of horizontal busbar

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

Up to 1600 A

Linergy BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 60 x 5	890	840	850	790	800	750	760	700	710	650	660	▪
1 Linergy BS bar, 80 x 5	1130	1050	1080	990	1000	900	970	870	910	810	860	▪
2 Linergy BS bars, 60 x 5	1580	1420	1500	1350	1400	1250	1350	1180	1260	1090	1180	▪
2 Linergy BS bars, 80 x 5	2010	1820	1920	1720	1800	1600	1720	1510	1610	1390	1510	▪

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

Up to 3200 A

Linergy BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 50 x 10	1330	1220	1260	1160	1200	1080	1130	1010	1060	940	990	▪
1 Linergy BS bar, 60 x 10	1550	1400	1470	1320	1400	1250	1320	1160	1240	1070	1160	▪
1 Linergy BS bar, 80 x 10	1990	1800	1890	1700	1800	1600	1700	1500	1600	1390	1500	▪
2 Linergy BS bars, 50 x 10	2270	2090	2160	1980	2050	1850	1930	1740	1810	1610	1690	▪
2 Linergy BS bars, 60 x 10	2550	2270	2420	2140	2300	2000	2170	1870	2030	1720	1900	▪
2 Linergy BS bars, 80 x 10	3110	2820	2970	2660	2820	2500	2660	2330	2500	2160	2330	▪
2 Linergy BS bars, 100 x 10	3650	3280	3490	3100	3300	2900	3130	2720	2950	2510	2750	▪
2 Linergy BS bars, 120 x 10	4160	3760	3960	3550	3760	3340	3560	3100	3340	2880	3120	▪

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

Example:
Two 50 x 10 mm bars can be used for a 2160 A current with an IP ≤ 31 and an ambient temperature of 30 °C around the switchboard.
Where possible, use of 10 mm bars is worthwhile in terms of the In/Isc:
- gain in time during switchboard mounting given, where applicable, the lesser number of bars installed
- for short-circuits, the rigidity of the bars means fewer busbar supports.

Recommendation:
Use 5 mm bars for In ≤ 1600 A and low Icw values (40 kA rms).
Use 10 mm bars for In > 1600 A and medium to high Icw values (> 40 kA rms).

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

Designing vertical busbars
Linergy LGY

Permissible current and selection of Linergy LGY busbars

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

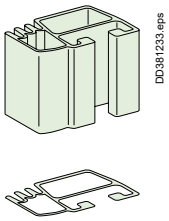
Up to 3200 A

Linergy LGY section

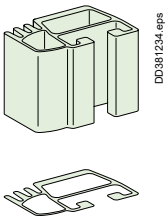
Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGY 630	750	680	710	630	680	590	630	550	590	530	550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

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

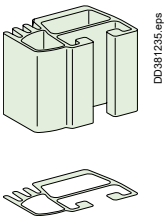
Example:
A Linergy LGY channelled bar can be used for a 1650 A current with an IP ≤ 31 and an ambient temperature around the switchboard of 35 °C.



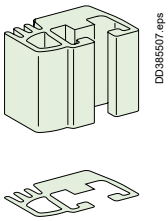
Section 630 A.
Cat. No. LVS04502.



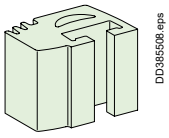
Section 800 A.
Cat. No. LVS04503.



Section 1000 A.
Cat. No. LVS04504.



Section 1250 A.
Cat. No. LVS04505.



Section 1600 A.
Cat. No. LVS04506.

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

Designing vertical busbars
Linergy LGYE

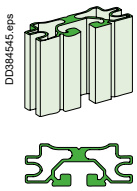
Permissible current and selection of Linergy LGYE busbars

Up to 4000 A

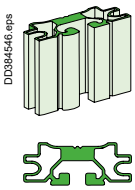
Linergy LGYE section

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

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



Section 630 A.
Cat. No. LVS04560.



Section 800 A.
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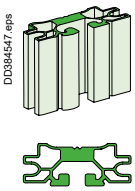
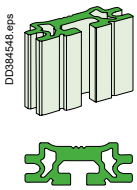
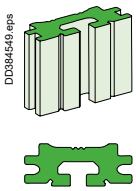


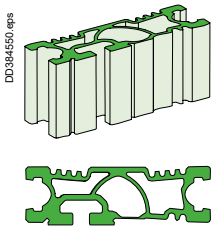
Section 1000 A.
Cat. No. LVS04562.



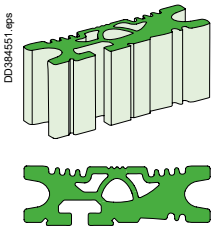
Section 1250 A.
Cat. No. LVS04563.



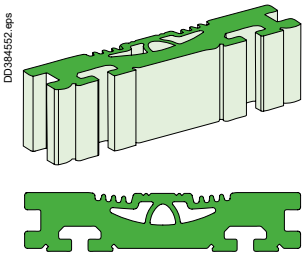
Section 1600 A.
Cat. No. LVS04564.



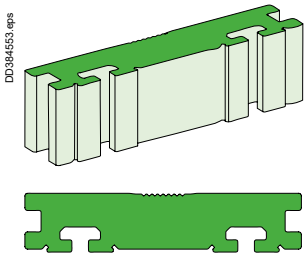
Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.



Section 4000 A.
Cat. No. LVS04568.

Designing vertical busbars
Linergy BS

Permissible current and selection of vertical busbar

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

Up to 1600 A

Linergy BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 60 x 5	890	840	850	790	800	750	760	700	710	650	660	▪
1 Linergy BS bar, 80 x 5	1130	1050	1080	990	1000	900	970	870	910	810	860	▪
2 Linergy BS bars, 60 x 5	1580	1420	1500	1350	1400	1250	1350	1180	1260	1090	1180	▪
2 Linergy BS bars, 80 x 5	2010	1820	1920	1720	1800	1600	1720	1510	1610	1390	1510	▪

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

Up to 3200 A

Linergy BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 50 x 10	1330	1220	1260	1160	1200	1080	1130	1010	1060	940	990	▪
1 Linergy BS bar, 60 x 10	1550	1400	1470	1320	1400	1250	1320	1160	1240	1070	1160	▪
1 Linergy BS bar, 80 x 10	1990	1800	1890	1700	1800	1600	1700	1500	1600	1390	1500	▪
1 Linergy BS bar, 100 x 10	2370	2150	2260	2030	2150	1900	2030	1780	1900	1650	1780	▪
2 Linergy BS bars, 50 x 10	2270	2090	2160	1980	2050	1850	1930	1740	1810	1610	1690	▪
2 Linergy BS bars, 60 x 10	2550	2270	2420	2140	2300	2000	2170	1870	2030	1720	1900	▪
2 Linergy BS bars, 80 x 10	3110	2820	2970	2660	2820	2500	2660	2330	2500	2160	2330	▪
2 x 1 Linergy BS bar, 80 x 10	3540	3200	3370	3020	3200	2820	3020	2650	2840	2450	2650	▪
2 Linergy BS bars, 100 x 10	3650	3280	3490	3100	3300	2900	3130	2720	2950	2510	2750	▪
2 Linergy BS bars, 120 x 10	4160	3760	3960	3550	3760	3340	3560	3100	3340	2880	3120	▪

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

Example
Two 80 x 10 mm bars can be used for a 2820 A current with an IP ≤ 31 and an ambient temperature of 35°C around the switchboard.
Two 80 x 10 mm bars installed separately in two busbar compartments can be used for a 3200 A current with an IP ≤ 31 and an ambient temperature of 35°C around the switchboard.

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

Designing rear busbars

Linergy LGYE, Linergy BS

Permissible current and selection of vertical busbar

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

Up to 1600 A

Linergy LGY section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGY 630	750	680	710	630	680	590	630	550	590	530	550	▪
Linergy LGY 800	920	840	880	800	840	760	800	720	760	680	720	▪
Linergy LGY 1000	1140	1040	1090	990	1040	950	990	900	950	850	900	▪
Linergy LGY 1250	1410	1290	1350	1230	1290	1170	1230	1100	1170	1050	1100	▪
Linergy LGY 1600	1800	1650	1720	1580	1650	1480	1580	1390	1480	1320	1390	▪

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

Up to 1600 A

Linergy BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 60 x 5	890	840	850	790	800	750	760	700	710	650	660	▪
1 Linergy BS bar, 80 x 5	1130	1050	1080	990	1000	900	970	870	910	810	860	▪
2 Linergy BS bars, 60 x 5	1580	1420	1500	1350	1400	1250	1350	1180	1260	1090	1180	▪
2 Linergy BS bars, 80 x 5	2010	1820	1920	1720	1800	1600	1720	1510	1610	1390	1510	▪

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

Up to 3200 A

Linergy BS bars, 10 mm thick

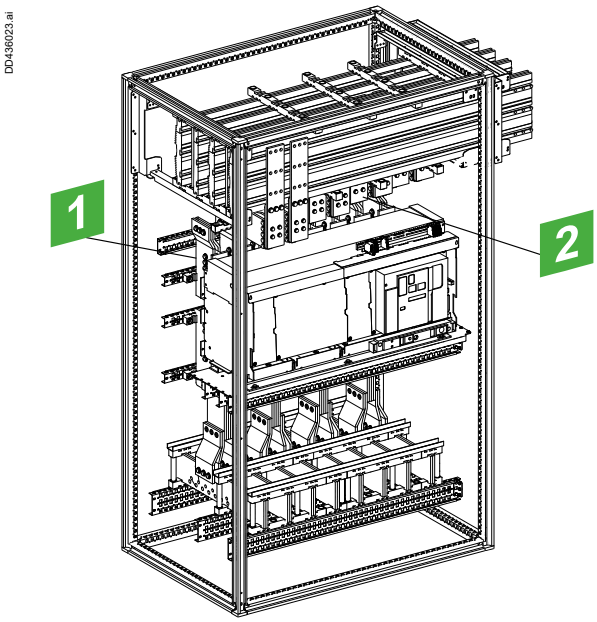
Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 50 x 10	1330	1220	1260	1160	1200	1080	1130	1010	1060	940	990	▪
1 Linergy BS bar, 60 x 10	1550	1400	1470	1320	1400	1250	1320	1160	1240	1070	1160	▪
1 Linergy BS bar, 80 x 10	1990	1800	1890	1700	1800	1600	1700	1500	1600	1390	1500	▪
2 Linergy BS bars, 80 x 10	2270	2090	2160	1980	2050	1850	1930	1740	1810	1610	1690	▪
2 Linergy BS bars, 60 x 10	2550	2270	2420	2140	2300	2000	2170	1870	2030	1720	1900	▪
2 Linergy BS bars, 80 x 10	3110	2820	2970	2660	2820	2500	2660	2330	2500	2160	2330	▪

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

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

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

Dedicated cubicle
Linergy LGYE
Connections drawings supplied by
Schneider Electric



Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31*	IP ≤ 31	IP > 31*	IP ≤ 31	IP > 31*	IP ≤ 31	IP > 31*	IP ≤ 31	IP > 31*	IP ≤ 31	IP > 31*
MTZ3 63/ NW63	Size per phase	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	
	I (A)	5450	6300	5325	6300	5200	6300	5025	6300	4825	6300	4650	6300
MTZ3 50/ NW50	Size per phase	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	
	I (A)	5000	5000	5000	5000	5000	5000	5000	5000	4825	5000	4650	5000
MTZ3 40/ NW40b	Size per phase	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	4b 120x10(1) 4b 80x10(2)	
	I (A)	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000

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

Canalis connection

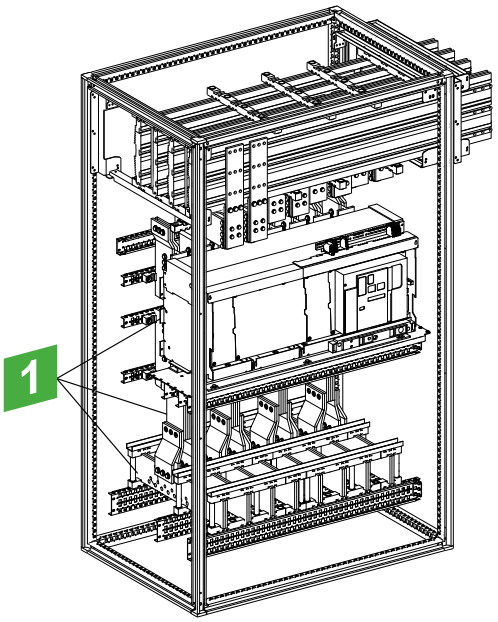
For Canalis connections, apply the appropriate derating coefficient K.

Device	NW40b	NW50	NW63
Derating coefficient K	1.0	0.98	0.95

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

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

Dedicated cubicle
Linergy LGYE
Connections drawings supplied by
Schneider Electric



Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31*	IP ≤ 31	IP > 31*	IP ≤ 31	IP > 31*	IP ≤ 31	IP > 31*	IP ≤ 31	IP > 31*	IP ≤ 31	IP > 31*
MTZ3 63/ NW63	Size per phase	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	
	I (A)	5450	6300	5325	6300	5200	6300	5025	6300	4825	6300	4650	6300
MTZ3 50/ NW50	Size per phase	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	
	I (A)	5000	5000	5000	5000	5000	5000	5000	5000	4825	5000	4650	5000
MTZ3 40/ NW40b	Size per phase	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	4b 120x10	
	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.

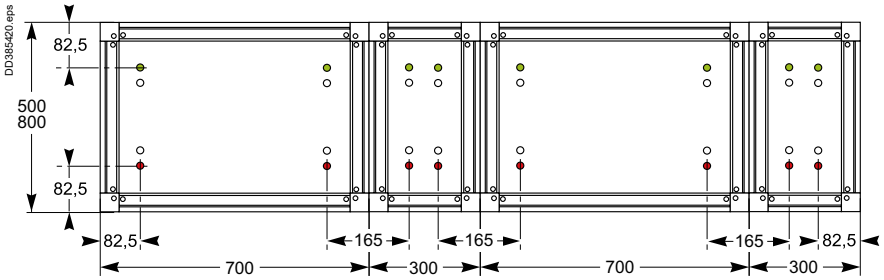
Ground fastening

Seismic application 3G withstand

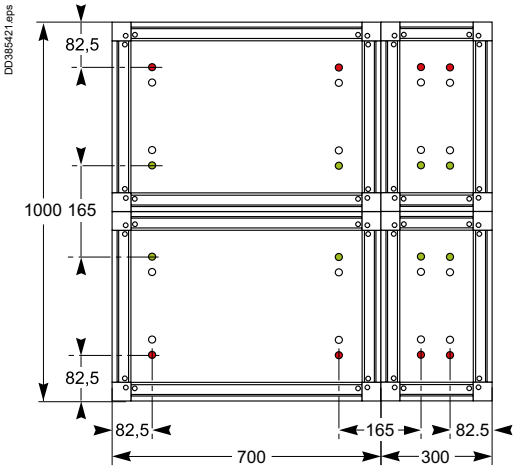
		1600 A configuration		3200 A configuration	
		PrismaSeT 6300	Busbar duct	PrismaSeT 6300	Busbar duct
Nominal dimensions	Height	2000	2000	2000	2000
	Width	700	300	700	300
	Depth	500	500	800	800
Additional dummy load (kg)		350	350	450	450
Seismic plinth H100 mm - Cat. no.		**NSYS5GPC75**	**NSYS5GPC35**	**NSYS5GPC78**	**NSYS5GPC38**

Note: *incoming by pre-frabricated busbar truncking is forbidden for seismic application.*

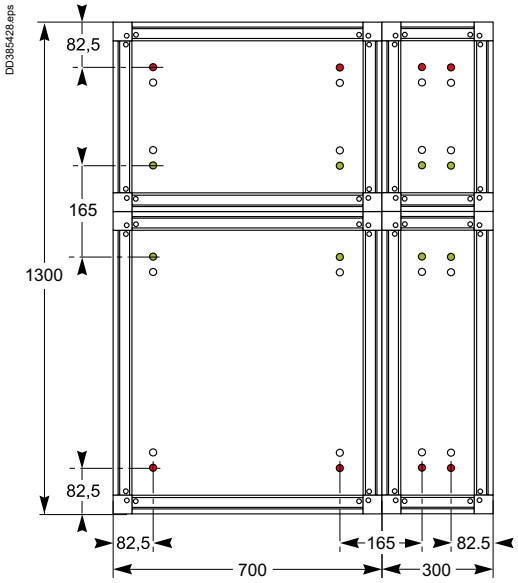
- Front connection (example: device cubicle W700 mm + compartment W300 mm)



- Rear connection D1000
(example: device cubicle + compartment D500 + D500 mm)



- Rear connection D1300
(example: device device cubicle + compartment D800 + D500 mm)

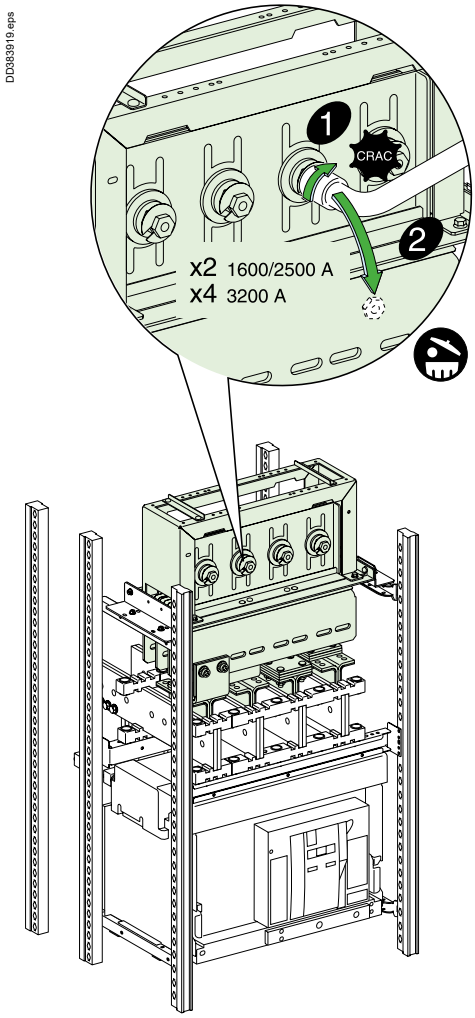


● compulsory fixing point
● optional fixing point

- 8.8-class screws: screw M10 TH
+ washers (external Ø 25 mm, thickness 3 mm)
+ CS contact washers Ø 10 mm.

Connection of busbar trunking

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.

Notes

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