XL³ 4000 and XL³ 6300 ENCLOSURES



LEGAL INFORMATION

Presentation pictures do not always include Personal Protective Equipment (PPE), but this is a legal and regulatory obligation that must be scrupulously respected.

In accordance with its continuous improvement policy, Legrand reserves the right to change the specifications and illustrations without notice. All illustrations, descriptions and technical information included in this document are provided as indications and cannot be held against Legrand. With its extensive ranges, the Legrand offer meets your quality standards and provides real freedom and simplicity of installation together with acknowledged reliability. The XL³ 4000 and XL³ 6300 enclosures are available in various widths, depths and heights so that it is easy for you to create the configuration you want. Enclosures can be joined side by side or back to back, and each panel can be replaced by a door to define the composition most suited to your requirements. Both these enclosures are designed so that they are fully modular, with no restrictions. Likewise, freedom of distribution has received particular attention: "standard" distribution (copper or aluminium busbars) or "optimised" distribution (aluminium busbars) which not only make for easy assembly, but also enable you to save time and space when installing them. The optimised system, with its patented connection, will ensure your maintenance and extension operations are safe and take less time. It will also be possible to meet the requirements of the various increased safety levels using these enclosures. This freedom thus enables different types of distribution to be used together in the same assembly.

These enclosures fit in perfectly with the whole range of XL³ enclosures, both in terms of appearance and installation method.

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SAFETY INSTRUCTIONS

General information

- Use only the products and accessories recommended by the Legrand Group in the catalogue, instructions, technical data sheets and all other documents provided by Legrand (hereinafter referred to as «the Documentation») in compliance with the installation rules.
- Improper installation and/or use may result in the risk of arcing in the enclosure, overheating or fire. The enclosures must be used under normal conditions, they must not be subjected to Voltage / Current / Temperature values other than those specified in the Documentation.
- Legrand declines all responsibility for any modification or repair of the equipment making up the enclosure that is not authorized by the Legrand Group, as well as any failure to comply with the rules and recommendations specified by Legrand in the Documentation. In addition, in the cases mentioned above, the warranty granted by Legrand will not be applicable.
- It is necessary to check that the characteristics of the products are appropriate for their environment and use during maintenance operations, and to refer to the Documentation. If you have any questions or require clarification, please contact Legrand Group.
- The installation, use and maintenance of the enclosures and their components must be carried out by qualified, trained and authorized personnel, in accordance with the regulations in force in each country.



RISK OF ELECTRIC SHOCK, BURNS AND EXPLOSION.

- People working on the installation must have the appropriate electrical authorizations for the work to be carried out.
- Wear the PPE (Personal Protective Equipment) necessary to work on live products.
- Respect the safety rules related to electrical work.
- Improper electrical and mechanical use of equipment can be dangerous and may result in personal injury or damage to property.
- Depending on the maintenance operations to be carried out, partial or total power cuts of the enclosure concerned should be planned before any work.
- When performing operations that involve access to the inside of the enclosure, be aware of the risk of burns before touching any products or metal parts.
- Before turning the power back on, make sure that there are no foreign bodies and that all physical protections have been put back in place (e.g.: screens, covers, shields).

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Any failure to strictly apply the procedures and to respect these recommendations, could lead to serious risk of accident, endangering people and property (in particular, without limitation, risk of burns, electric shocks, etc.).



The rules and recommendations in this document are based on our knowledge of the typical conditions of use of our products in the fields of application usually encountered. However, it is always the customer's responsibility to verify and validate that Legrand products are suitable for its installation and use.

The customer must ensure proper installation, maintenance and operation of the equipment to avoid any risk of injury to personnel or damage to property in the event of product failure, especially for applications that require a very high level of safety (e.g., those in which the failure of a component may endanger human life or health).

The rules for storage, handling, installation and maintenance and the appropriate precautions and warnings must be strictly observed and applied.

THE XL³ 4000 AND XL³ 6300 RANGES



Assembly consisting of two enclosures and an XL³ 4000 cable sleeve



XL³ 6300 enclosure

GENERAL CHARACTERISTICS

- IP 30/IK 07
- IP 55/IK 08 with door and seal for joining (XL³ 4000 only)
- Fire resistance: 750°/30 s
- Short-time withstand current lcw: up to 110 kA (with 4000 A busbar)
- Rated peak withstand current lpk: 240 kÂ
- 2 heights:
- 2 000 mm (XL³ 4000 only) - 2 200 mm
- Take devices up to 6300 A

- 3 types of faceplate (¹/₄ turn sealable, screw-mounting with or without hinges, with hinges and locks)
- Choice of distribution: standard or optmised, copper or aluminium
- Connection with Zucchini prefabricated busbars
- Internal or external cable sleeve (XL³ 4000)
- Separation form: up to 4b
- Increased safety level: up to IS 333
- Colour: RAL 7035 (RAL 7004 for the plinths)
- Conform to standard IEC 61439-1

You can choose a color among 197 colour shades: RAL only available for metal parts. If you have any questions on the technical possibilities and costs, please contact us at: support-technique-edia. fr-lgs@legrand.fr





THE XL³ 4000 AND XL³ 6300 RANGES

XL³ 4000 ENCLOSURES

ENCLOSURE	S	ROOF-BASE Assembly	STRUCTURAL Uprights	PLINTHS	FUNCTIONAL Uprights	FACEPLATE FIXED	SUPPORTS Pivoting	CROSSPIECES For Int. Cable Sleeves	FRONT Covers for Int. Cable Sleeves	REAR Panels	SIDE Panels	
Width x depth (mm)	Height (mm)											
	2000	0.005.07	0 205 00	0.005.17	0 205 12	0 205 58	0 205 68			0 205 42	0 205 41	
725 x 475	2200	0 205 04	0 208 50	0 205 14	0 208 52	0 208 55	-	-	-	0 208 58	0 208 57	
	2000	0 205 05	0 205 00	0 205 15	0 205 13	0 205 58	0 205 68	_	_	0 205 42	0 205 42	
725 x 725	2200		0 208 50		0 208 53	0 208 55	-			0 208 58	0 208 58	
	2000	0 205 06	0 205 00	0 205 18	0 205 13	0 205 58	0 205 68		_	0 205 42	0 205 43	
725 x 975	2200	0 203 00	0 208 50	0 203 10	0 208 53	0 208 55	-			0 208 58	0 208 59	
	2000	0 205 07	0 205 00	0 205 17	0 205 12	0 205 58	0 205 69			0 250 43	0 205 41	
975 x 475	2200	0 203 07	0 208 50	0 203 17	0 208 52	0 208 55	-			0 208 59	0 208 57	
(1)	2000	0 205 07	0 205 00	0 205 17	0 205 16	0 205 59	0 205 79	0 205 21	0 205 47	0 250 43	0 205 41	
975 x 475	2200	0 203 07	0 208 50	0 203 17	0 208 54	0 208 56	-	0 203 21	0 208 66	0 208 59	0 208 57	
	2000	0 205 08	0 205 00	0 205 18	0 205 13	0 205 58	0 205 69			0 250 43	0 205 42	
975 x 725	2200	0 205 08	0 208 50	0 205 18	0 208 53	0 208 55	-	-	-	0 208 59	0 208 58	
(1)	2000	0 205 08	0 205 00	0 205 18	0 205 16	0 205 59	0 205 79	0 205 22	0 205 47	0 250 43	0 205 42	
975 x 725	2200	0 205 08	0 208 50	0 205 18	0 208 54	0 208 56	-	0 205 22	0 208 66	0 208 59	0 208 58	
	2000	0 205 09	0 205 00	0 205 19	0 205 13	0 205 58	0 205 69			0 250 43	0 205 43	
975 x 975	2200	0 203 07	0 208 50	0 200 17	0 208 53	0 208 55	-	-	-	0 208 59	0 208 59	
(1)	2000	0.205.00	0 205 00	0.205.10	0 205 16	0 205 59	0 205 79	0.205.22	0 205 47	0 250 43	0 205 43	
975 x 975	2200	0 205 09	0 208 50	0 205 19	0 208 54	0 208 56	-	0 205 23	0 208 66	0 208 59	0 208 59	

(1) With internal cable sleeve

XL ³ 4000 CABLE SLEEVE	XL ³	4000	CABL	E SL	.EEV	'ES
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ENCLOSU	RES	ROOF-BASE Assembly	STRUCTURAL Uprights	PLINTHS	FRONT COVERS	REAR PANELS	SIDE PANELS	METAL DOOR
Width x depth (mm)	Height (mm)							
	2000	0.205.01	0 205 00		0 205 48	0 205 41	0 205 41	0 205 71
475 x 475	2200	0 205 01	0 208 50	0 205 11	0 208 67	0 208 57	0 208 57	0 208 65
	2000	0 205 02	0 205 00	0 205 14	0 205 48	0 205 41	0 205 42	0 205 71
475 x 725	2200	0 205 02	0 208 50	0 200 14	0 208 67	0 208 57	0 208 58	0 208 65
	2000	0 205 02	0 205 00	0 205 17	0 205 48	0 205 41	0 205 43	0 205 71
475 x 975	2200	0 205 03	0 208 50	020317	0 208 67	0 208 57	0 208 59	0 208 65

XL³ 6300 ENCLOSURES

ENCLOSURES		ROOF-BASE Assembly	STRUCTURAL Uprights	PLINTHS	FUNCTIONAL Uprights	FACEPLATE Supports	REAR PANELS	SIDE PANELS
Width x depth (mm)	Height (mm)							
1425 x 475	2200	0 211 33	0 211 36	0 211 30	0 211 37	0 208 55	0 211 41	0 208 57
1425 x 725	2200	0 211 34	0 211 36	0 211 31	0 211 37	0 208 55	0 211 41	0 208 58
1425 x 975	2200	0 211 35	0 211 36	0 211 32	0 211 37	0 208 55	0 211 41	0 208 59

DOORS									
CUR	VED	FL	AT						
METAL	GLASS	METAL	GLASS						
	* *		*						
0 205 54	0 205 64	0 205 74	0 205 84						
0 208 61	0 208 63	-	-						
0 205 54	0 205 64	0 205 74	0 205 84						
0 208 61	0 208 63	-	-						
0 205 54	0 205 64	0 205 74	0 205 84						
0 208 61	0 208 63	-	-						
0 205 57	0 205 67	0 205 77	0 205 87						
0 208 62	0 208 64	-	-						
0 205 57	0 205 67	0 205 77	0 205 87						
0 208 62	0 208 64	-	-						
0 205 57	0 205 67	0 205 77	0 205 87						
0 208 62	0 208 64	-	-						
0 205 57	0 205 67	0 205 77	0 205 87						
0 208 62	0 208 64	-	-						
0 205 57	0 205 67	0 205 77	0 205 87						
0 208 62	0 208 64	-	-						
0 205 57	0 205 67	0 205 77	0 205 87						
0 208 62	0 208 64	-	-						

ASSEMBLING THE ENCLOSURES

Assembling the structure

XL³ 4000 and 6300 enclosures and XL³ 4000 cable sleeves consist of a "roofbase" assembly, 4 structural uprights and rear and side panels.



The "roof-base" assembly is supplied with its screws.

Screws overview:



1 ASSEMBLING THE PLINTHS



The plinths of XL³ 4000 enclosures consist of 4 corner pieces and 4 side panels.



Turn the base upside down to access the plinth fixing points.



For bases whose width and depth are identical, the direction of the runners on the cable entry plate can be reversed.

Start by fixing the corner pieces at the 4 corners.



The corner pieces are drilled so that an 8 mm Allen key can be inserted (the handle supplied with the "Debro-lift" mechanism for DPX is suitable).



Fit the side panels as required, then turn the assembly upside down to fit the structural uprights.



Unlike the plinths of XL^3 4000 enclosures, which are supplied dismantled, the plinths of XL^3 6300 enclosures are one-piece, but they are fixed onto the enclosure in the same way.

2 MOUNTING THE STRUCTURAL UPRIGHTS

The structural uprights are supplied in sets of 4 and are common to all the enclosures and cable sleeves in their range.

- Cat. No 0 205 00 – XL³ 4000 height 2000 mm

- Cat. No 0 208 50 - XL³ 4000 height 2200 mm - Cat. No 0 211 36 - XL³ 6300 height 2200 mm



Push each upright onto the base and fix it using two M8 countersunk head screws without fully locking them.

The 2 painted uprights must be placed at the front of the structure (painted side of the base) ensuring that their perforated side is at the back.

3 MOUNTING THE ROOF



Insert the 2 pieces that make up the roof in the ends of the structural uprights.

The painted part and the rounded part of the roof must be placed at the front of the structures.



Attach the roof using M8 countersunk head screws then fully tighten all the structural assembly screws.

ASSEMBLING THE ENCLOSURES



Create the equipotential links from the roof and the plinth to the structure using the conductors and screws supplied with the "roof-base" assembly. The connection points for this are marked with the \pm symbol.

For earthing, use the connection points marked at the back of the enclosure, as those located at the front are reserved for mounting the faceplate support uprights.

XL³ 4000





The roof height spacers Cat. No 0 205 46 improve the ventilation of XL³ 4000 enclosures.

4 JOINING TWO STRUCTURES

IP 30

The outer sides of the structural uprights are pre-equipped with connection pieces for joining.

These pieces are also used for mounting the panels and doors.



Join the connection pieces of the 2 structures using the M6 screws in joining kit Cat. No 0 205 86.



The joining kit comprises 8 x M6 screws and a tool for holding the screws in place while they are tightened.



If the panel is to be moved or transported, the structure must be reinforced after joining using reinforcement plates Cat. Nos 0 205 88/89. (See page 76).



Example of reinforcement of a joined assembly A: 1 set of 2 L-shaped plates

- Cat. No 0 205 88
- B: 2 sets of 2 flat plates Cat. No 0 205 89





The modularity of the structure enables enclosures to be joined together side by side or back to back. Numerous configurations can therefore be created to meet the specific requirements of services areas.



The 4 fixing screws for the roof can be replaced by M12 lifting rings Cat. No 0 205 82. The height of the enclosure is then increased by 53 mm (see page 76).

■ IP 55

The joining operations are identical to those described for IP 30 protection. However a weatherproof seal Cat. No 0 205 85 must be inserted between the structures to be joined.



Apply the seal in one piece and ensure that it is attached at the bottom.

As the structural uprights are the same design, it is possible to join XL³ 6300 enclosures to XL³ 4000 enclosures of the same height, creating a uniform assembly.

5 MOUNTING THE FUNCTIONAL UPRIGHTS

The functional uprights are essential in enclosures. They take the fixing devices or plates for all Legrand devices: DX³ modular circuit breakers, DPX & DPX³ moulded case circuit breakers, DMX³ air circuit breakers, IS and optimised chassis, etc. Reduced-width functional uprights, for XL³ 4000 enclosures, optimise the wiring space, in particular in enclosures 475 mm deep. Only fixed version devices with front terminals can be mounted on this type of upright. All versions and configurations can be mounted on standard functional uprights.

[1] [2] [3]



- 1: XL³ 4000 reduced-width functional upright:
 - Cat. No 0 205 12 for enclosure height 2000 mm
 - Cat. No 0 208 52 for enclosure height 2200 mm
- 2: XL³ 4000 standard functional upright:
- Cat. No 0 205 13 for enclosure height 2000 mm
- Cat. No 0 208 53 for enclosure height 2200 mm
- 3: XL³ 6300 functional upright:
- Cat. No 0 211 37

XL³ 6300 and XL³ 4000 enclosures with no internal cable sleeve





Fix the functional uprights using the tapped holes provided.



The square shape cut-outs must be at the front.

ASSEMBLING THE ENCLOSURES

XL³ 4000 enclosure with internal cable sleeve

In 975 mm wide enclosures, the internal cable sleeve can be used to obtain a mounting area with 600 mm of usable space and a sleeve with 250 mm of usable space. This sleeve can be created on the right or left side of the structure.



Before installing the functional uprights, the enclosure must be fitted with two crosspieces which will be used to delimit the sleeve compartment and for fixing the functional uprights.



Crosspieces Cat. Nos 0 205 21/22/23 are supplied in pairs with their brackets and fixing screws.

Selection of crosspieces									
Enclosure	Cross	pieces							
depth (mm)	Cat. No	Length (mm)							
475	0 205 21	350							
725	0 205 22	600							
975	0 205 23	850							



Fix the mounting brackets onto the structure of the enclosure using the tapped holes.



Fix the crosspiece onto the brackets then insert four clip-nuts into the 5th and 9th holes in the crosspiece.



Fix the narrowest functional upright onto the separate crosspieces. The other upright is fixed directly to the structure of the enclosure.

6 MOUNTING THE FACEPLATE SUP-PORT FRAMES

Fixed frames Cat. Nos 0 205 58/59 and Cat. Nos 0 208 55/56



In enclosures without an internal cable sleeve, the two faceplate support uprights are fixed directly onto the structure of the enclosure.



In enclosures with an internal cable sleeve, the double upright is fixed onto separate crosspieces Cat. Nos 0 205 21/22/23. Pivoting frame Cat. Nos 0 205 68/69/79.

Pivoting frames Cat. Nos 0 205 68/69/79

Pivoting frames are only available for enclosures height 2000 mm. They con-sist of two crosspieces and two faceplate support uprights and are supplied dismantled. In enclosures without an internal cable sleeve, any direction of opening can be chosen. In enclosures with an internal cable sleeve, the hinges must be on the side opposite the sleeve.



Fit the door stopper on the side opposite the hinges.



Fix the lower hinge onto the front crosspiece of the enclosure, then place the frame (previously assembled) in position and fix the upper hinge.



The pivoting frame is locked using two screws. A retractable handle, supplied with the frame, is installed in the upper crosspiece for ease of opening when all the faceplates are in place.



The pivoting frames reduce the usable faceplate height to 1700 mm instead of 1800 mm with a

7 PARTIAL CHASSIS: CUTTING THE FUNCTIONAL UPRIGHTS

XL³ 4000 enclosures have been specially designed to have two separate compartments:

- One compartment for the functional units
- One compartment for the busbars For mounting 1600 A busbar supports, use enclosures at least 725 mm deep, and for mounting 4000 A busbar supports, use 925 mm deep enclosures. If there are size restrictions, it is possible to work with smaller depth enclosures, by cutting the functional uprights.
- Single partial chassis (busbar at top or bottom)



Example: busbar with supports Cat. Nos 0 373 22/23 for depth 475 mm The functional uprights will have 200 mm cut off for a 1600 A busbar and 300 mm for a 4000 A busbar.



Position the crosspieces on the structure of the enclosure (set of crosspieces Cat. No 0 205 31 for 475 mm depth and Cat. No 0 205 32 for 725 mm depth).



The functional uprights that have been cut are fitted on the separate crosspieces equipped with clip-nuts. Double partial chassis (transfer busbar)

 Double partial chassis (transfer busbar)



Two sets of crosspieces Cat. Nos 0 205 31/32 and an additional set of brackets Cat. No 0 205 30 are required to create a double partial chassis. The double partial chassis is only possible with reduced-width uprights Cat. No 0 205 12.

ASSEMBLING THE ENCLOSURES

Finishing the structure

1 OBTAINING IP PROTECTION LEVELS

IP 30

IP 30 protection is obtained without doors. The finish can be improved by using one of the finishing kits.

Width (mm)		Height		
		2000 mm	2200 mm	
	475	0 205 61	0 208 31	
XL ³ 4000	725	0 205 62	0 208 32	
	975	0 205 63	0 208 33	
XL ³ 6300	1450	-	0 211 48	



The finishing profiles clip onto the structure.





IP 55 protection is obtained by mounting a door (unless mounted on cable trough).



A perfect finish between the 2 joined enclosures



The finish between the doors is achieved by using strip Cat. No 0 205 65 for 2000 mm height and Cat. No 0 208 47 for 2200 mm height.

2 DIFFERENT TYPES OF FACEPLATE

There are three types of faceplate in the $\rm XL^3$ 4000 range.

1/4 turn faceplates

These are specifically for fixed 24-module wide devices (Ik3 < 25 kA).



Screw-mounting faceplates

These are specifically for fixed 24-module and 36-module wide devices. They can be mounted on hinges (on the left or the right) for ease of working.



Hinge Cat. No 0 209 59 for screw-mounting faceplate



■ Faceplates with hinges and locks These are specifically for plug-in and draw-out devices in the DPX/DPX³ range, and all the devices in the DMX³ range. Example: faceplate for DMX³



3 MOUNTING THE REAR AND SIDE PANELS

In addition to the faceplates, finishing an enclosure generally consists of adding a rear panel and two side panels.



The panels are fixed on the structural uprights using eight M6 screws.

4 MOUNTING THE FRONT COVERS ON CABLE SLEEVES

There are two types of cable sleeve in the XL³ 4000 range: internal cable sleeves and external cable sleeves.

Each cables leeve has a specific front cover: - Cat. No 0 205 47: front cover for internal cable sleeve (Cat. No 0 208 66 for height

- 2200 mm) - Cat. No 0 205 48: front cover for exter-
- nal cable sleeve (Cat. No 0 208 67 for height 2200 mm)

These two front covers are equipped with hinges and locks.

 Mounting the front cover on internal cable sleeves



Fit the hinges on the fixing lugs.



Fix the four "lug + hinge" assemblies on the back of the structural upright using clip-nuts and M6 screws.



Position of the lugs (mm)



On the side opposite the hinges, insert the 2 locks in the cut-outs on the front cover and fix them using the nuts provided.



Fix the front cover on the hinges using the countersunk head screws provided, then insert the plastic covers in the screw heads to complete the finish.



The internal fold on the panels makes them easier to install on the structure (the long fold indicates the top of the panel).

ASSEMBLING THE ENCLOSURES

 Mounting the front cover on external cable sleeves



The 2 additional lugs are used for attaching the locks and must be fixed on the structural upright of the cable sleeve, on the side opposite the hinges.

5 MOUNTING THE DOORS

There are four types of door for XL³ 4000 enclosures (flat metal, flat glass, rounded metal and Curved glass) available in two widths: 725 mm and 975 mm. For external cable sleeves, there is a 475 mm wide flat metal door.





Flat doors



Position of the lugs (mm)



Curved doors



The doors are fitted on the structural uprights using connection pieces. The connection pieces are also used for fixing panels and joining enclosures.



The doors are simply fixed on these pieces using four pins. They can be fitted on the left or the right hand side.



The connection pieces on the structural uprights can take either finishing panels or doors. It is therefore possible to fit doors on all 4 sides of enclosures. Total accessibility is therefore maintained whatever the configuration of the panel.



Curved doors increase the distance between the faceplate and the door by 40 mm in comparison with flat doors. They are specifically adapted for use when mounting devices on doors or for remote handles, equipment on faceplates, etc.

6 CREATING THE EQUIPOTENTIAL LINKS

The equipotential links of the roof and the base are described on page 10. The equipotentiality of the faceplates and panels is provided directly by the mounting components. The equipotential link of the doors is created automatically via the hinges. When electrical equipment with an operating voltage of more than 50 V is fitted on the door, the faceplates or the finishing panels, an additional equipotential link must be created. For this purpose all these parts have copper-plated M6 studs providing a reliable contact.



Use link cord Cat. No 0 373 85, length: 350 mm.



At one end the cord is fixed onto the structure of the enclosure using a clipnut and an M6 screw.



At the other end the cord is fixed on the stud on the door or on a faceplate.



Creating the equipotential link of a side panel.

ASSEMBLING THE ENCLOSURES

Connecting to Zucchini SCP busbars

SCP inlets Cat. Nos ZU6028100 OP/1002P/1004P/1006P/1007P -ZU60391004P/1006P/1007P are used for 4-pole connection up to 4000 A, between Zucchini prefabricated busbars and the main LV distribution board. They are mounted on the roof of XL³ 4000 enclosures. They can be positioned parallel or perpendicular to the front of the enclosure, depending on the type of connection. The roof must be drilled in accordance with the instructions, and reinforced using the set of crosspieces Cat. No 0 205 29.



The connection interface is fixed on the reinforcement crosspieces across the roof.

	MOUNTING OPTIONS									
			Dimensions of the XL ³ 4000 enclosure (mm)							
		725 x	(725 725 x		x 975	975 :	x 975			
Connection inter- face	In									
ZU60281000P	630 A	٠	-	٠	٠	٠	٠			
ZU60281002P	1000 A	•	-	•	•	•	•			
ZU60281004P	1250 A	•	-	•	•	•	•			
ZU60281006P	1600 A	•[1]	-	•[1]	•	•[1]	•			
ZU60281007P	2000 A	•[1]	-	•[1]	•	•[1]	•			
ZU60391004P	2500 A	-	-	-	-	•[1]	•			
ZU60391006P	3200 A	-	-	-	-	•	•			
ZU60391007P	4000 A	-	-	-	-	٠	٠			

(1) For optimised distribution kit (see p. 36)

Mounting the switchboard feed unit on XL³ 6300

Two switchboard feed units can be mount-ed on an XL3 6300 enclosure and connected via a copper busbar to supply a DMX^3 6300.





Optimised distribution

XL³ 4000 enclosures offer a great deal of freedom of choice for distribution. To meet various requirements, such as different ways of working, quick installation, ease of maintenance, continuity of service, etc. Legrand offers three types of solutions in terms of distribution:

- Optimised distribution
- Standard distribution
- Increased Safety (see specific Increased Safety workshop specifications)

XL³ 4000 enclosures give users freedom to organise the distribution. With VX³ busbars and HX³ optimised row distribution blocks, Legrand provides a complete, coherent system for horizontal and vertical distri-bution. This distribution system increases safety and assists with quick installation and optimisation of the space in the enclo-sure.



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1 DMX³ – SCP CONNECTION INTER-FACE CONNECTION KIT

Prefabricated connections for direct connection of the SCP switchboard feed units to the DMX³ with no bending or drilling

2 DMX³ CONNECTION KIT ON TRANS-FER BUSBAR

Prefabricated connections for direct connection of the DMX³ on the busbar with no bending or drilling

3 CONNECTION KIT FOR VX³ BUSBAR POWER SUPPLY

Prefabricated connections for direct connection of VX³ busbars

✓ VX³ BUSBARS, FROM 800 TO 3200 A Can be mounted in a cable sleeve, at the back of the enclosure or behind functional uprights

HX³ - OPTIMISED DISTRIBUTION BLOCK UP TO 400 A Both DPX³ - DX³ together on the same row

6 TINNED COPPER ALUMINIUM BUSBARS

Their surface treatment ensures electrolytic compatibility with copper and durability of the contacts. Their C-section enables connection without any drilling, using the special hammer head bolts and tap-off terminals.

7 CONNECTION KITS

Prefabricated connections for supplying 250 and 400 A HX³ row distribution blocks and protection devices without any bending or drilling.

BUSBARS AT THE BACK OF XL³ 4000 ENCLOSURES



1 POWER SUPPLY KITS									
via vertical main device	e in enclosure	via main horizontal busbar (fixing centres 75 mm)							
DPX ³ 630	DPX ³ 1600	aluminium copper		copper					
4 044 63	4 045 30 (800A max) 4 045 31 (800A m		4 045 31 (800A max)						
2 BUSBARS AT THE BACK OF ENCLOSURES									
Isolating support			4 044 60						
Isolating lug support			4 044 61						
Isolating rails	4 044 6	2							
Tinned copper alumini c-section busbars	um 800 A		4 044 33						

SIDE-MOUNTED BUSBARS BEHIND UPRIGHTS IN XL³ 4000 ENCLOSURES

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ی م	2
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SIDE-MOUNTED BUSBARS (ALIGNED BARS, FIXING CENTRES 75 MM)						
lating sup-	Enclosure depth 725 mm	0 373 66				
ť	Enclosure depth 975 mm	0 373 86				
ditional supp	0 373 50					
	800 A	0 373 54				
ned copper	1000 A	0 373 55				
minium section	1250 A	0 373 56				
busbars	1450 A	0 373 57				
	1750 A	0 373 58				
	BARS, FIXIN lating sup- t ditional suppo ned copper minium section	BARS, FIXING CENTRES 75 MM Lating sup- t Enclosure depth 725 mm Enclosure depth 975 mm ditional support 800 A 1000 A 1250 A 1450 A				

2	KITS FOR CONNECTION ON MAIN HORI- ZONTAL BUSBAR					
mr	ing centres 75 m copper or alu- nium	Fixing centres 125 mm copper				
0 373 82		4 045 45 (in 725 mm depth)				
		4 045 46 (in 975 mm depth)				

3 CONNECTION KIT						
Device in hori	zontal position		HX ³ row distribution block			
DPX ³ 160	DPX ³ 250	DPX ³ 630				
4 045 40	4 045 41	4 045 42	4 045 43			

SIDE-MOUNTED BUSBARS IN XL³ 4000 INTERNAL CABLE SLEEVE



1 BUSBARS IN CABLE SLEEVE (ALIGNED BARS, FIXING CENTRES 75 MM)					
Isolating	Enclosure depth 725 mm	0 373 66			
support	Enclosure depth 975 mm	0 373 86			
Addition	al support	0 373 50			
	800 A	0 373 54			
Tinned	1 000 A	0 373 55			
copper aluminiur		0 373 56			
C-sectio busbars		0 373 57			
	1 750 A	0 373 58			

2 KITS FOR CONNEC	KITS FOR CONNECTION ON MAIN HORI-					
ZONTAL BUSBAR	ZONTAL BUSBAR					
Fixing centres 75 mm copper or alu- minium	Fixing centres 125 mm copper					
0 373 82	4 045 45					
(1 bar/pole)	(in 725 mm depth)					
0 373 83	4 045 46					
(2 bars/pole)	(in 975 mm depth)					

3 CONNECTION KIT							
	Device in hor	HX ³ row distribution block					
Enclosure	DPX ³ 160	DPX ³ 250	DPX ³ 630	HA" FOW DISTRIBUTION DLOCK			
Depth 475 mm	4 045 50	4 045 51	4 045 52	4 045 53			
Depth 725 and 975 mm	4 045 60	4 045 61	4 045 62	4 045 63			

VX³ vertical optimised distribution in XL³ 4000 enclosures consists of c-section aluminium busbars and prefabricated con-nection kits. It is used to create distribution assemblies up to 3200 A with no bending or drilling of the bars. c-section aluminium busbar supports can be used for all types of assembly and are very easy to use:

- vertical mounting at the back of the enclosure
- vertical side-mounting behind upright (branch busbar)
- vertical side-mounting in internal or external cable sleeve (branch busbar)
- horizontal mounting (transfer or main busbar)

To optimise the space inside the enclosure, the aligned versions of these busbar supports have 75 mm fixing centres.

SUPPORTS FOR BUSBARS AT THE BACK OF THE ENCLOSURE (LIMITED TO 800 A)

- Cat.no 4 044 60 and Cat.No 4 044 61 for 725 mm width enclosure.



SUPPORTS FOR SIDE-MOUNTED BUS-BARS IN ENCLOSURES OR CABLE SLEEVES

- Cat.no 0 373 66 for enclosure depth 475 or 725 mm



- Cat.no 0 373 86 for enclosure depth 975 mm



It is possible to increase the strength of the busbars using additional supports Cat.no 0 373 50.



It is important to comply with the maximum distance between supports for every assembly in order to ensure that the busbars are held in place when subjected to electrodynamic forces.



MAXIMUM DISTANCES BETWEEN SUP-PORTS (MM)

				lpk (kA)									
				30	40	52	63	73	84	94	105	132	154
In(A)								lcw	(KA)				
IP ≤ 30	IP > 30	BUSBARS	SUPPORTS	15	20	25	30	35	40	45	50	60	70
800	630	4 044 33	4 044 60/61	1600	1000	800	700	600	600	500	500	400	400
		4 0 202 5 (0 373 66	1600	1000	800	700	600	600	500	500	-	-
		1 x 0 373 54	0 373 86	1600	1000	800	700	600	600	500	500	-	-
1000	800	4 0 202 55	0 373 66	1600	1000	800	700	600	600	500	500	-	-
		1 x 0 373 55	0 373 86	1600	1000	800	700	600	600	500	500	-	-
1250	1000		0 373 66	1600	1000	800	700	600	600	500	500	500	400
		1 x 0 373 56	0 373 86	1600	1000	800	700	600	600	500	500	500	400
1450	1250	4 0 000 50	0 373 66	1600	1000	800	700	600	600	500	500	500	400
		1 x 0 373 57	0 373 86	1600	1000	800	700	600	600	500	500	500	400
1750	1600	1 0 000 50	0 373 66	1600	1000	800	700	600	600	500	500	500	400
		1 x 0 373 58	0 373 86	1600	1000	800	700	600	600	500	500	500	400
3500	3200		2 x 0 373 66	1600	1000	800	700	600	600	500	500	500	400
		2 x 0 373 58	0 373 86 + 0 373 50	1600	1000	800	700	600	600	500	500	500	400

1 VERTICAL MOUNTING AT THE BACK OF ENCLOSURES

This type of mounting is used for distribution up to 800 A in order to connect 400 A row distribution blocks directly on the busbar (see page 30).

The busbar supports 4 044 60 and 4 044 61 are mounted directly on the functional uprights.









Fix the lug support Cat. No 4 044 60 between the functional uprights and position the busbars.



Fix the intermediate supports Cat. No 4 044 61 complying with the maximum distances.



Check that the bars are tightened correctly by retightening the screws on the supports.



This type of mounting is not possible with reduced-width functional upright Cat. No 0 205 12 and 0 208 52.

2 VERTICAL SIDE MOUNTING

"Compact" mounting behind the functional uprights

This type of mounting is the most advantageous in terms of the space it takes. It enables a vertical busbar up to 1600 A to be created without having to use a cable sleeve. The support is fixed to the rear of the functional upright.



The main busbar can be created independently using flat bars (with 1600 A supports Cat. No 0 373 22 or 4000 A supports Cat. No 0 373 24) or using single (1600 A) or double (3200 A) C-section alu-minium bars.



Fix the supports between the functional upright and the structural upright



Position the busbars and tighten the supports to ensure the bars are held in place. (Tightening torque: see page 29).





Connection between an aluminium busbar and a main busbar created using flat bars with single connection plates Cat. No 0 373 82.



Connection between an aluminium busbar and a double main busbar created using aluminium bars.



Legrand aluminium busbars are given a special protective treatment which prevents any surface oxidation and ensures electro-chemical compatibility between the surfaces that are in contact (galvanic effect). the electrical contacts must be made on the front of the busbars (flat contact surface).



Side-mounting in a cable sleeve

The busbar is placed in an internal or external cable sleeve. The supports will be fixed between the structural uprights of the cable sleeve for depths 475 or 725 mm or between the structural upright and an intermediate upright (Cat. No 0 205 20 or 0 208 51) for depth 975 mm.





Example of mounting support Cat. No 0 373 86 in 975 mm deep cable sleeve.



Busbar installed in cable sleeve.

3 HORIZONTAL MOUNTING

This is used for creating main busbars, generally placed at the top or the bottom of the enclosure, and also for creating transfer busbars, for supplying the main busbar from the main device.

It is created using the same busbar supports as for vertical mounting. The supports will be fixed in the same way as for vertical busbars, but will be placed horizontally (rotated 90°).





Supports Cat. Nos 0 373 66 and 0 373 68 can be doubled to create a busbar with a current of 3200 A max. If the branch busbar is also double, the connection will be made using large plates Cat. No 0 373 83.

4 JOINING THE SUPPORTS FOR DOUBLE BUSBARS

To create a double aluminium busbar, simply use joining kit Cat. No 0 373 77 to screw the busbar supports together. The 2 longest screws are used for the ends and the 3 shorter ones in the centre.



Example: Cat. No 0 373 66 + 0 373 50 + 0 373 77.



Joining kit + Cat. No 0 373 77.



Position the longest screws at the ends and assemble the supports.



The shortest screws are used to tighten the busbars.

Tightening torques the tightening torque of the five m8 screws used to hold the busbars in place must be 20 nm. the tightening torque of the four m6 screws used to fix the supports on the XL³ structure must be between 10 and 15 nm.



5 CONNECTING BUSBARS

To create a tap-off or an extension between two busbars, the aluminium busbars will be connected together using joining plates Cat. Nos 0 373 82 or 0 373 83. These plates will be fixed using hammer head bolts Cat. No 4 044 95. The choice and number of plates depend on the current carried by the busbars.



I(A)		
0 - 800 A	x 1	0 373 82 x 1
800 - 1600 A	x 1	0 373 82 x 2
1600 - 3200 A	x 2	0 373 83 x 1

The hammer head bolt is fixed in place by simply rotating it a quarter turn inside the busbar.

This system provides considerably flexibility of connection, as the hammer head bolt can be used in any position on the busbar.

The recommended tightening torque for the hammer head bolts is 20 N.m.

It is also possible to connect optimised aluminium busbars to 4000 A copper or aluminium main busbars with different fixing centres (125 mm) with the connection kits below.

KIT CAT. NO.	MAIN BUSBAR	POSITION OF VX ³ BUSBAR	ENCLO- SURE DEPTH (mm)
4 045 30	Aluminium	Back of enclosure 800 A	725
4 045 31	Copper	Back of enclosure 800 A	725
4 045 45	Copper	Side- mounted vertical 1600 A	725
4 045 46	Copper	Side- mounted vertical 1600 A	975





For fixing and connecting 1P, 2P, 3P and 4P

DX³ 1 module/pole and 1.5 module/pole circuit

breakers. A 1-module universal support base

(without connections) is used to insert control

devices in the row

SUPPORT BASES FOR DPX³ CIRCUIT BREAKERS For fixing and connecting 3P and 4P DPX³ 160 and 250 circuit breakers and rcBos.

400 A HX³ 4-pole row distribution blocks

The distribution block can be supplied directly via a VX³ busbar (with or without connection accessories, depending on the configuration) or via a head of row device.

- Rated voltage (Ue): 230/400 V±
- Rated frequency: 50/60 Hz
- Rated peak withstand current (lpk): 52 kÂ
- Insulation voltage (Ui): 1000 V
- Rated current: 250/400 A maximum (central power supply)
- Protection index: IP 20
- Maximum connection cross-section for the power supply module: flexible bars 32 x 4 mm

400 A HX³ row distribution blocks take bases for DPX³ 160 and 250 and for mod-ular circuit breakers. These distribution blocks are fixed on the functional uprights in 24-module enclosures, or 36-module enclosures with internal cable sleeve. The Legrand range of 400 A distribution blocks consists of two catalogue num-bers:

- Cat. No 4 044 83: row distribution block with direct connection on the 800 A VX³ busbar at the back of the enclosure.

- Cat. No 4 044 84: row distribution block without connections. This will be used with a side-mounting power supply module Cat. No 4 044 82, or supplied directly via a head of group protection device installed on the row distribution block. Which dis-tribution block is chosen will depend on the type of busbar installed.

800 A VX³ distribution at the back of the enclosure (see page 26)

In this particular case, distribution block Cat. No 4 044 83 will be used.



Position and fix the row distribution block on the functional uprights of the enclosure.



The row distribution blocks are preequipped with hammer head bolts. Tighten them to connect the block to the busbar tightening torque 20 N.m.

Distribution in a cable sleeve

Select row distribution block Cat. No 4 044 84 together with power supply module Cat. No. 4 044 82.



Position and fix the row distribution block on the functional uprights of the enclosure.



Position and lock the side-mounting power supplymodule for the row distribution block (Cat No. 4 044 82) on the side of the cable sleeve on which the busbar is located.



Then connect the power supply module to the busbar using the prefabricated connection kit (tightening torque 20 N.m.) Cat. Nos of the connection kits

- Cat. No 4 045 53: for side-mounting busbar in internal cable sleeve, enclosure depth 475 mm
- Cat. No 4 045 63: for side-mounting busbar in internal cable sleeve, enclosure depth 725 or 975 mm

Distribution behind upright

In this case, no side-mounting power supply module is required. The connection kit is fixed directly to the back of the row distribution block.



Cat. No of the connection kit Cat. No 4 045 43: for side-mounting busbar behind upright (enclosure depth 725 or 975 mm).

Direct power supply via head of group device

A device mounted on the row distribution block can be supplied directly via the bottom terminals in order to create head of group protection. In this case, the maximum current will be 250 A (limited by the DPX³ 250).



Tap-off from aluminium C-section busbars

The connection can be made via cables connected to the busbar by IPxxB 250 A tap-off terminals Cat. No 4 044 89. de repiquage 250 A IPxxB réf. 4 044 89.



Tightening torque 20 Nm



This terminal enables 2 conductors to be connected and provides IP XXB protection with the screw cover inserted.

7 EQUIPPING 400 A HX³ 7 ROW DISTRIBUTION BLOCKS

Mounting a DPX³

The circuit breakers are mounted on the HX³ distribution block using support bases. The four support bases for DPX³ enable automatic connection of 3P and 4P DPX³ 160 and DPX³ 250 A circuit breakers.

Support bases for DPX ³					
Device	DPX ³ 160	DPX ³ 250			
3P	4 045 00	4 045 02			
4P	4 045 01	4 045 03			



Support bases for DPX³ consist of a fixed part, a movable part, an anti-withdrawal kit and two terminal shields. They enable automatic connection of a DPX³ 160 or 250 (when off-load) to the row distribution block while energised.



When mounting a DPX³ 160, the upstream cage terminals must first be removed from the device.

A) MOUNTING THE CIRCUIT BREAKER ON THE BASE



Install the movable part of the base, inserting the conductive parts into the upstream terminals of the DPX³ circuit breaker.



Secure the device to the base using the fixing screws supplied with the base.



Make the upstream electrical connections with the screws supplied with the circuit breaker (no. 4 Allen key for DPX³160, tightening torque 7 N.m, and no. 5 Allen key for DPX³250, tightening torque 10 N.m).

B) INSTALLING THE ANTI-WITHDRAWAL KIT

The anti-withdrawal kit prevents a circuit breaker being withdrawn in the closed position.



Insert the spring...



...then assemble the two parts of the kit.



Fix the kit on the back of the movable part of the support base with the two screws supplied (tightening torque 1 N \cdot m).

C) FITTING THE TERMINAL SHIELD



Engage the rear part of the terminal shield then push it down at the front.



Lock the terminal shield by inserting the 2 sealed plugs.



For downstream connection of the DPX³, the downstream terminal shield must be removed.

D) MOUNTING THE DPX³ ON THE DISTRIBUTION BLOCK

The DPX³ equipped with a support base can be installed on the 400 A row distribution block while energised.



Position the fixed part of the support base on the row distribution block.



It is locked automatically.



Clip the DPX³ on this base in open position.



Lock the assembly with the top and bottom $\ensuremath{^{1\!\!\!/}}$ turn screws.

Mounting DX³ circuit breakers

Installing modular circuit breakers on the 400 A HX³ distribution block requires the use of support bases for DX³. They raise modular circuit breakers to the same height as DPX³, so that they can be installed together on the same row.

A) MOUNTING DX³ ON WIRED BASE

This type of base is used to connect modular devices with screw terminals and either 1 or 1.5 modules per pole depending on the Cat. No chosen.

The circuit breakers do not require any preparation.

Wired bases for DX ³						
Device	Connection	1 mod/ pole	1,5 mod/ pole			
	L1	4 045 24	4 045 18			
1P	L2	4 045 25	4 045 19			
IF	L3	4 045 26	4 045 20			
	Ν	4 045 23	4 045 17			
3P	L1, L2, L3	4 045 22	4 045 16			
4P	L1, L2, L3, N	4 045 21	4 045 15			



To prevent any risk of contact with live parts, the wires must be connected to the circuit breaker before the base is installed on the distri- bution block.



Connect the wires in the circuit breaker without installing it on the "rail" part of the support base.

Recommended tightening torque: 2.5 N·m for DX³ with 1 module/pole 5.5 N·m. for DX³ with 1.5 module/pole



Holding the circuit breaker with one hand, clip the base onto the row distribution block and lock it using the locking levers.

DX ³ devices compatible with modular bases						
Devices	Plug-in bases	Wired bases				
2P and 4P DX ³ -ID RCCBs – outgoing lines via the bottom	٠	•				
2P and 4P DX ³ RCBOs – protection of outgoing lines	•	•				
1P, 2P, 3P and 4P DX ³ circuit breakers – 1 module/pole	٠	•				
1P, 2P, 3P and 4P DX ³ circuit breakers – 1.5 modules/pole		•				



Engage the device in the same way as on a standard modular rail.



Complete the installation by locking the circuit breaker clips.
Installing support bases for DX³

A) MOUNTING DX³ CIRCUIT BREAKERS ON PLUG-IN BASE

Plug-in (wireless) bases for DX³ are intended for devices with 1 module per pole which are connected via the rear of the circuit breaker.

Plug-in bases for DX ³						
Device	Connection	1 mod/pole				
	L1	4 045 10				
1P	L2	4 045 11				
IP	L3	4 045 12				
	Ν	4 045 13				
3P	L1, L2, L3	4 045 09				
4P	L1, L2, L3, N	4 045 08				



The plug-in bases are supplied with the corresponding connection modules which must be installed first on the circuit breakers.



This enables the required phase to be selected. It is thus very easy to balance the phases on the whole row.

The connection module is fitted via the rear of the circuit breaker.



Position the upper part of the connection module (marked "Max 80") on the top of the circuit breaker then push it forward to engage the module pin in the device's plug-in mechanism. This mechanism ensures the contact pressure is correct. Then do the same for the other poles.



Then push on the circuit breaker to clip it onto the base, and lock it with the clips. Further circuit breakers can be added while energised but off-load (circuit breaker in open position).

Is is the case for all IS products.



Clip the base on the distribution block...



... then lock the assembly using the levers.



The circuit breaker is correctly installed once it is locked on the claws.

8 MOUNTING HX³ PLUG-IN 8 ROW DISTRIBUTION BLOCKS

80 and 125 A HX³ plug-in 4-pole row distribution blocks

Tool-free installation on 2-position aluminium \Box rails.

- Rated voltage (Ue): 230/400 v±
- Rated frequency: 50/60 Hz
- Permissible short-circuit current (Ipk): 25 kÂ
- Insulation voltage (ui): 690 v±
- Rated current:
 up to 125 A: direct connection on power supply module
 - up to 80 A: direct connection on modular device
- Protection index: IP 20
- Maximum connection cross-section of power supply module: 50 mm

The hX³ plug-in row distribution block is used for 4-pole distribution of DX³ devices (1 module per pole) up to 80 A by direct connection to a circuit breaker or 125 A with the power supply module. With its IP XXB insulation, devices can be safely connected and disconnected automatically while the block is energised. like the 250 or 400 A row distribution blocks, it provides total freedom to com-bine 1P+n, 1P, 2P, 3P and 4P DX³. It is mounted in XL³ 400 and XL³ 800 enclosures in the same way. hX³ Plug-in 24 modules – Cat. No 4 052 40 hX³ Plug-in 36 modules – Cat. No 4 052 41 125 A power supply module for hX³ Plug-in – Cat. No 4 052 42

Can be connected and disconnected while energised but the circuit must be off-load (circuit breaker open).



4-POLE POWER SUPPLY MODULE Supplied with the distribution block, for direct power supply of the block via screw terminals. Power can also be supplied direct by a head of row device via its upstream terminals.

CONNECTION MODULES

For mounting on legrand DX³ 1P+n, 2P, 3P and 4P circuit breakers, used for automatic connection to the distribution block. The phase to be connected is selected by the choice of connection module.

UP TO 80 A



Indirect power supply to the distribution block via a "head of row device"



Direct power supply to the distribution block via the terminals of one of the devices

UP TO 125 A



Direct power supply to the distribution block via power supply module Cat. No 4 052 42 fitted with its protective cover



Direct power supply to the distribution block via power supply module Cat. No 4 052 42 equipped with a device

- Installing connection modules
- A) 1P+N DEVICES 1 MODULE



For 1P+n circuit breakers with **automatic connection terminals**, the connection module can be installed without any tools, simply by pressing down on it.



For 1P + n circuit breakers with **screw terminals** the device's terminals must first be opened with a PZ2 screwdriver.

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Compatible modular devices	Connection modules
1P+n DnX ³ circuit breakers – 1 module – screw or automatic terminals	4 052 51
1P+n DX ³ RCBOs – protection of outgoing lines	(L1N, L2N, L3N)
2P and 4P DX ³ -ID RCCBs – incoming via the top/outgoing via the bottom	4 052 46/47/48/49
2P and 4P DX ³ RCBOs – protection of outgoing lines	(L1, L2, L3, N)
1P, 2P, 3P and 4P DX ³ circuit breakers – 1 module/pole	



Install the module in the same way as on automatic terminals so that the connection module's teeth are inserted in the circuit breaker terminals, then tighten to the correct torque (1.6 to $2 \text{ n} \cdot \text{m}$).

Devices with 1 module per pole



These are mounted in the same way as 250 and 400 A row distribution blocks (see page 35).

- Distribution block power supply
- A) CONNECTION TO THE POWER SUPPLY MODULE (UP TO 125 A)



cables up to 35 mm² can be connected to the power supply module. When its protective cover is removed, it can take a 4-pole device.

When the power supply module is equipped with a device, this device must never be removed while energised.

B) CONNECTION ON THE TERMINALS OF A DEVICE (UP TO 80 A)



To supply the distribution block directly via the terminals of one of the devices, first break off the protective caps on the connection modules.

9 VX³ OPTIMISED CONNECTION KITS

legrand offers a range of optimised connection kits for connecting protective devices to busbars with no bending or drilling.

DMX³/SCP connection interface connection kits

These kits are used for quick, easy connection of SCP switchboard feed units to the upstream terminals of size 1 DMX³. The kits are mounted in enclosures 725 mm and 975 mm deep.

KIT CAT. NO	NOMINAL CURRENT	SCP CAT.NO	DMX ³ 2500 VERSION
4 043 00	1600 A	ZU60281006P	Fixed
4 043 01	2000 A	ZU60281007P	Fixed
4 043 02	2500 A	ZU60391004P	Fixed
4 043 03	1600 A	ZU60281006P	Draw-out
4 043 04	2000 A	ZU60281007P	Draw-out
4 043 05	2500 A	ZU60391004P	Draw-out

It is essential that prefabricated busbar system incoming lines are mounted vertically. see the selection chart on page 18.





Connection kits for transfer

These kits are used for quick, easy connection of the downstream terminals of protective devices, such as DMX³, DMX³-I or DPX³ 1600, directly to the transfer busbar. The kits are also available for size 1 or 2, fixed or draw-out, supply inverter, etc. DMX³. To select the right kit, please refer to the following tables.

	DMX ³ 4000							
KIT CAT.NO	DMX ³ VERSION DMX ³ MAX. CURRENT		TRANSFER BUSBAR MAX. CURRENT	NO. OF BARS PER POLE				
4 043 60	Fixed	3200	3200	2				
4 043 61	Suply inverter - fixed	3200	3200	2				
4 043 62	Draw-out	3200	3200	2				
4 043 63	Inverter draw-out	3200	3200	2				

	DMX ³ 2500							
KIT CAT.NO	DMX ³ VERSION	DMX ³ MAX. CURRENT	TRANSFER BUSBAR MAX. CURRENT	NO. OF BARS PER POLE				
4 043 64	Fixed	2000 A	2500 A	2				
4 043 65	Suply inverter - fixed	2000 A	2500 A	2				
4 043 66	Draw-out	2500 A	2500 A	2				
4 043 67	Suply inverter draw-out	2500 A	2500 A	2				
4 043 68	Fixed	1600 A	1600 A	1				
4 043 69	Suply inverter - fixed	1600 A	1600 A	1				
4 043 70	Draw-out	1600 A	1600 A	1				
4 043 71	Suply inverter draw-out	1600 A	1600 A	1				

DPX ³ 1600							
KIT CAT.NO	DMX ³ VERSION	CONNECTION TYPE	ENCLOSURE DEPTH	NO. OF BARS PER POLE			
4 043 80	Fixed	Front terminals	475 mm *	1			
4 043 81	Fixed	Front terminals	725 / 975 mm	1			
4 043 82	Draw-out	Front terminals	725 / 975 mm	1			
4 043 83	Fixed	Rear terminals	725 / 975 mm	1			
4 043 84	Draw-out	Rear terminals	725 / 975 mm	1			

* partial chassis



connection kits for transfer supplied dismantled. Ex: Cat. No 4 043 63

Connection kits for protective devices

These kits are used to connect DPX³ 160, DPX³ 250 and DPX³ 630 protective devices with any nominal current and breaking capacity to 1600 A side-mounted busbars (1 bar/pole) with or without cable sleeve. The circuit breakers are mounted horizontally on their dedicated plates.





KIT CAT.NO	CIRCUIT BREAKER	BUSBAR MOUNTING TYPE	ENCLOSURE DEPTH (mm)
4 045 40	DPX ³ 160	Behind upright	725 / 975
4 045 41	DPX ³ 250	Behind upright	725 / 975
4 045 42	DPX ³ 630	Behind upright	725 / 975
4 045 50	DPX ³ 160	In internal sleeve	475
4 045 51	DPX ³ 250	In internal sleeve	475
4 045 52	DPX ³ 630	In internal sleeve	475
4 045 60	DPX ³ 160	In internal sleeve	725 / 975
4 045 61	DPX ³ 250	In internal sleeve	725 / 975
4 045 62	DPX ³ 630	In internal sleeve	725 / 975

Standard distribution

legrand standard distribution enables numerous different compositions of busbars to be created and the isolating supports provide high flexibility for installations up to 6300 A in both enclosures and cable sleeves with copper or aluminium bars.



XL ³ STANDARD DISTRIBUTION												
					Fla	at copper bars	5		C-3	section alı	ıminium ba	ars
	In max.		400 A	800 A	1000 A	1600 A	4000 A	6300 A		160	0 A 00	
	Su	pports		N							Æ	
Mounting			0 373 15	0 373 20	0 373 21	0 373 22/23	0 373 24/25	0 373 12/13	0 373 66	0 373 68	0 373 67	0 373 69
T		D: 475				•(5) + 0 205 51			•[5]			
TALL.	Horizontal main top or bottom	D: 725				• + 0 205 52	•[5]	•[5]	•[6]	•(5)		
MM	or gottom	D: 975				• + 0 205 53	•[1]	•[1]	•[1, 7]	•[7]		
H	Horizontal	D: 725				• + 0 205 51	•[4, 5]	•(4, 5)	•	•(5)		
ma the	transfer	D: 975				• + 0 205 52	•	•	•[1]	•		
	Side-	D: 475		• + 0 205 51	• + 0 205 51	• + 0 205 51			٠		•	
TAL	mounted vertical in cable	D: 725		• + 0 205 52	• + 0 205 52	• + 0 205 52	•	•	•[1]	•	•[1]	٠
MIN	sleeve	D: 975		• + 0 205 53	• + 0 205 53	• + 0 205 53	•[1]	•[1]	•[1]	•[1]	•[1]	•[1]
T	Side- mounted vertical in	D: 725		• + 0 205 51		• + 0 205 51			•			
A A	enclosure behind upright	D: 975		• + 0 205 52		• + 0 205 52	•	•	•[1]	•		
	-	W: 475		• + 0 205 51		•(2) + 0 205 51			•			
	Vertical at the back	W: 725	• + 0 373 14	• + 0 205 52		• + 0 205 52			•	•		
(mm)	W: 975		• + 0 205 53		• + 0 205 53			•	•[1]			
AA		W: 475		•[3] + 0 205 51		•(3) + 0 205 51	•(3) + 0 205 51	•(3) + 0 205 51				
	Horizontal at the back	W: 725		•(3) + 0 205 52		•(3) + 0 205 52	•(3) + 0 205 52	•(3) + 0 205 52				
(mm)		W: 975		•(3) + 0 205 53		•(3) + 0 205 53	•(3) + 0 205 53	•(3) + 0 205 53				

(1) With upright Cat. No 0 205 20 in cable sleeve

(2) Depth 725 mm minimum(3) Fixed supports only

(4) In additional cable sleeves

(5) Partial chassis

(6) With crosspieces Cat. No 0 205 52(7) With crosspieces Cat. No 0 205 53

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1 MOUNTING COPPER BUSBARS

■ In < 800 A: support Cat. No 0 373 20

Isolating supports Cat. No 0 373 20 are used to create sloping vertical busbars. They take flat bars up to 63 x 5 mm. They can be side-mounted in enclosures and cable sleeves (internal and external) or at the back of the enclo-sure, whatever the width and depth of the enclosure. They are fixed on mounting crosspieces Cat. Nos 0 205 51/52/53 (see page 44).



Isolating support Cat. No 0 373 20

support Cat. No 0 373 20: 4 mounting possibilities





P = 975 / 725 mm

Side-mounted in enclosure





P = 975 / 725 / 475 mm

Side-mounted in At the back of the external cable sleeve enclosure

SELECTION OF BARS							
Bi	ars	I (A)					
Cat.No	Cross-section (mm)	IP < 30	IP > 30				
0 374 18	25 x 5	330	270				
0 374 19	32 x 5	450	400				
0 374 40	50 x 5	700	630				
0 374 41	63 x 5	800	700				
0 374 34	18 x 4	245	200				

MAXIMUM DISTANCE (IN mm) BETWEEN SUPPORTS ACCORDING TO THE PEAK CURRENT (IPK)								
Ba	rs	0 374 18 25 x 5	0 374 19 32 x 5	0 374 40 50 x 5	0 374 41 63 x 5			
	10	800	900	-	-			
	15	600	600	700	800			
	20	450	500	600	700			
	25	350	400	500	550			
	30	300	350	400	450			
lpk (kÂ)	35	250	300	350	400			
трк (кај	40	200	250	275	300			
	45	200	200	225	250			
	50	150	150	200	200			
	60	125	125	150	150			
	70	100	100	150	150			
	80	-	-	100	100			



Fix the crosspiece on the uprights using the brackets provided.



Fix the support using the M6 screws (tightening torque 10 nm).



Fix the copper bars on the support (tightening torque 7 nm).



It is possible to fix a protective cover (not supplied) with the 2 screws provided.

■ In < 1000 A: support Cat. No 0 373 21 Isolating supports Cat. No 0 373 21 are used to create staggered vertical busbars. They take flat bars up to 80 x 5 mm and c-section bars up to 440 mm². They are mounted at the side, in internal and external cable sleeves (all depths), using crosspieces Cat. Nos 0 205 51/52/53 (see page 44).



Isolating support Cat. No 0 373 21

Support Cat. No 0 373 21



P = 975 / 725 / 475 mm

Side-mounted in internal or external cable sleeve

SELECTION OF BARS							
	Ba	irs	I (A)				
Туре	Cat. No	Section	IP < 30	IP > 30			
Plates	0 374 40	50 x 5 mm	700	630			
	0 374 41	63 x 5 mm	800	700			
	0 374 59	75 x 5 mm	950	850			
	0 374 43	80 x 5 mm	1000	900			
En C	0 374 60	155 mm ²	500	400			
	0 374 61	265 mm ²	800	630			
	0 374 62	440 mm ²	1250	1000			

DISTAN	DISTANCE MAXIMUM (EN mm) ENTRE LES SUPPORTS EN FONCTION DU COURANT DE CRÊTE (Ipk)								
lpk (kÂ)		Flat	bars		C-section bars				
	0 374 40 50 x 5	0 374 41 63 x 5	0 374 59 75 x 5	0 374 43 80 x 5	0 374 60 155 mm²	0 374 61 265 mm²	0 374 62 440 mm²		
10	1000	1200	1200	1200	1100	1600	1600		
15	800	900	1000	1000	800	1000	1300		
20	650	700	750	750	600	800	1000		
25	500	600	600	600	450	650	800		
30	400	500	550	550	400	550	700		
35	350	450	450	450	350	450	600		
40	300	350	400	400	300	400	550		
45	300	300	350	350	250	350	500		
50	250	250	300	300	250	300	450		
60	200	250	250	250	200	300	400		
70	150	200	200	200	150	250	350		
80	100	150	200	200		200	300		
90	100	150	200	200		200	250		
100	100	150	150	150		150	250		
110	100	100	150	150		150	200		
120	100	100	100	100		150	200		



Fix the crosspieces Cat. Nos 0 205 51/52/53 on the structure of the enclosure, then attach the clip-nuts.



Insert the bars then fix the movable part of the isolating supports (tightening torque 7 nm): flat bars Cat. Nos 0 374 40/41/43/59 ...



Fix the supports on the crosspieces using M6 screws (tightening torque 10 nm).

i

The connectors for bars are fixed onto flat copper bars or on C aluminium bars and are used for wiring the outgoing lines.



Cat. No 0 374 03 : 1 x 1.5 to 6 mm² + 2 x 6 to 16 mm²



Cat. No 0 374 05 : 4 x 1.5 to 6 mm² + 3 x 6 to 16 mm²



Cat. No 0 373 99 : ø10 x 4 x 6 to 35 mm² + ø8.9 x 2 x 6 to 35 mm²

■ In < 1600 A:

support Cat. Nos 0 373 22/23

Isolating supports Cat. Nos 0 373 22/23 take one or two flat bars per pole, up to 100 x 5 mm. They can be used to create numerous busbar configurations: - Main busbars at the top or bottom

- Transfer busbars
- Side-mounted vertical busbars in enclosure or cable sleeve (internal and
- external) - Vertical busbars at the back of the enclosure
- Horizontal main busbars at the back of the enclosure



Supports Cat. Nos 0 373 22/23: 5 mounting possibilities

Top or bottom horizontal main busbar^[1]



Transfer busbar



Fixed support Cat. No 0 373 22



Additional support Cat. No 0 373 23 used in addition to the fixed supports



Side-mounted vertical busbars





Vertical busbars at the back of the enclosure Main busbar at the back of the enclosure

(1) Mounting a top or bottom main busbar in a 475 mm depth enclosure requires the creation of a partial chassis (see page 13)

				SELECTIO	N OF BARS					
					I (A)				
Ba	ars		1 bar p	oer pole			2 bars p	per pole		
		Edge	wise	e Flat Edgewise						
Réf.	Cross sec- tion (mm)	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	
0 374 40	50 x 5	700	630	430	350	1150	1000	650	510	
0 374 41	63 x 5	800	700	500	400	1350	1150	770	590	
0 374 59	75 x 5	950	850	600	475	1500	1300	890	700	
0 374 43	80 x 5	1000	900	630	500	1650	1450	940	740	
0 374 46	100 x 5	1250	1050	750	580	1900	1600	1120	900	

		MAXIMUM DI	STANCE (IN mr	ACCORDING T	O THE PEAK CU	JRRENT (IPK)				
			1 bar per pole				2	bars per pol	е	
lpk (kÂ)	0 374 40 50 x 5	0 374 41 63 x 5	0 374 59 75 x 5	0 374 43 80 x 5	0 374 46 100 x 5	0 374 40 50 x 5	0 374 41 63 x 5	0 374 59 75 x 5	0 374 43 80 x 5	0 374 46 100 x 5
10	1000	1200	1200	1200	1200					
15	800	900	1000	1000	1200					
20	650	700	750	750	900					
25	500	600	600	600	700					
30	400	500	550	550	600	700	800			
35	350	450	450	450	550					
40	300	350	400	400	450	550	600	650	650	700
45	300	300	350	350	400					
50	250	250	300	300	350	450	500	500	500	550
60	200	250	250	250	300	350	400	400	400	450
70	150	200	250	250	250	250	350	350	350	400
80	100	150	200	200	200	250	300	300	300	300
90	100	150	200	200	200	200	250	300	300	300
100	100	150	150	150	150	200	200	250	250	250
110	100	100	150	150	150	150	200	200	200	200
120	100	100	100	100	100	150	150	200	200	200



Fix the crosspieces Cat. Nos 0 205 51/52/53 on the structure of the enclosure, then attach the clip-nuts.



Fix the supports on the crosspieces using M6 screws (tightening torque 10 nm).



Insert the bars then fix the movable part of the isolating supports (tightening torque 7 nm): flat bars Cat. Nos 0 374 40/41/43/46/59.

Additional support Cat. No 0 373 23



To withstand high short-circuit currents, the number of busbar supports must be increased. occasionally, due to their position, supports cannot be fixed on the frame. Additional supports have been developed for this situation. They are not fixed to the frame, but hold the bars in relation to one another to withstand the electrodynamic stresses which occur if there are short-circuits.



Crosspieces Cat. Nos 0 205 51/52/53 enable the position of the bars to be adjusted by 5 mm so that it is easier to connect a vertical busbar to a horizontal busbar.

∎ In < 4000 A:

supports Cat. Nos 0 373 24/25

Isolating supports Cat. Nos 0 373 24/25 take one to four 5 mm thick flat bars up to 120 x 5 or one to three 10 mm thick flat bars up to 125 x 10. They can be used to create numerous bus-bar configurations:

- Transfer busbars
- Main busbars at the top or the bottom
- Horizontal main busbars at the back of the enclosure
- Side-mounted vertical busbars in enclosure and cable sleeve (internal and external)



Supports Cat. Nos 0 373 24/25: 4 mounting possibilities



Top or bottom horizontal main busbar^[1]

Transfer busbar^[2]



Fixed support Cat. No 0 373 24.



Additional support Cat. No 0 373 25 used in addition to the fixed supports.



Side-mounted vertical busbars



Main busbar at the back of the enclosure

(1) Mounting a top or bottom main busbar in a 725 mm depth enclosure requires the creation of a partial chassis (see page 13)

(2) Mounting a transfer busbar in a 725 mm depth enclosure requires the creation of a partial chassis (see page 13) and the use of 2 internal or external cable sleeves.



Position the insulators on the supports according to the thickness of the copper bars.



Fix the supports on the uprights using 4 clip-nuts + screws (tightening torque 10 nm).



Adjust the depth of the busbar to connect it with the other busbars (tightening torque 20 nm).

SELECTION OF	5 MM THICK BA	RS								
Bars		I (A)								
		1 bar per pole	5			2 bars per po	le			
Cat.No	Cross-sec- tion (mm)	edgewise		flat		edgewise		flat		
		IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	
0 374 40	50 x 5	700	630	500	420	1180	1020	750	630	
0 374 41	63 x 5	800	700	600	500	1380	1180	750	630	
0 374 59	75 x 5	950	850	700	600	1600	1400	1000	850	
0 374 43	80 x 5	1000	900	750	630	1700	1480	1050	900	
0 374 46	100 x 5	1250	1050	850	700	2050	1800	1200	1050	
	125 x 5	1450	1270	1000	800	2500	2150	1450	1250	

pk (kÂ)	1 bar per p	ole				2 bars per	pole			
	50 x 5	63 x 5	75 x 5 80 x 5	100 x 5	125 x 5	50 x 5	63 x 5	75 x 5 80 x 5	100 x 5	125 x 5
10	1550	1700	1700	1700	1700	1700	1700	1700	1700	1700
15	1050	1200	1350	1550	1700	1550	1700	1700	1700	1700
20	800	900	1000	1150	1350	1200	1350	1500	1700	1700
25	650	750	800	950	1100	950	1100	1200	1400	1550
30	550	600	700	800	900	800	900	1000	1150	1300
35	450	550	600	650	800	700	800	900	1000	1150
40	400	450	550	600	700	600	700	800	900	1000
45	350	400	450	550	600	550	600	700	800	900
50	350	350	450	500	550	500	550	650	700	800
60	300	300	350	400	450	400	450	550	600	700
70	250	250	300	350	400	350	400	450	500	650
80		250	250	300	350	300	350	400	450	550
90			250	250	300	300	300	350	400	500
100				250	300	250	300	300	350	500
110				250	250	250	250	300	350	450
120					250		250	250	300	450
130					250			250	300	400
140								250	250	400
150									250	350
160									250	350
170										350
180										300
190										
200										
210										
220										

3 bars per po	le			4 bars per pol				
edgewise		flat		edgewise		flat		
IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	
1600	1380	1000	900	2020	1720	1120	1000	
1900	1600	1100	1000	2350	1950	1350	1200	
2200	1900	1250	1100	2700	2300	1600	1400	
2350	2000	1300	1150	2850	2400	1650	1450	
2900	2450	1600	1400	3500	2900	1900	1650	
3450	2900	1800	1600	4150	3450	2150	1950	

3 bars per p					4 bars per p				
50 x 5	63 x 5	75 x 5 80 x 5	100 x 5	125 x 5	50 x 5	63 x 5	75 x 5 80 x 5	100 x 5	125 x 5
-	-	-	-	-	-	-	-	-	-
1700	-	-	-	-	-	-	-	-	-
1550	1700	1700	1700	1700	1700	1700	1700	1700	1700
1250	1450	1600	1700	1700	1550	1700	1700	1700	1700
1050	1200	1350	1550	1700	1300	1500	1700	1700	1700
900	1050	1150	1300	1500	1150	1250	1450	1650	1700
800	900	1050	1150	1300	1000	1100	1300	1450	1650
700	800	900	1050	1200	900	1000	1150	1300	1450
650	750	850	950	1050	800	900	1050	1150	1350
550	600	700	800	900	650	750	850	1000	1100
450	550	600	700	750	600	650	750	850	950
400	450	550	600	700	500	600	650	750	850
350	400	500	550	600	450	500	600	650	750
350	400	450	500	550	400	450	550	600	700
300	350	400	450	500	350	450	500	550	600
300	300	350	400	450	350	400	450	550	550
250	300	350	350	400	300	350	400	500	550
250	250	300	350	400	300	350	400	450	500
250	250	300	350	350	300	300	350	400	450
	250	250	300	350	250	300	350	400	350
	250	250	300	350	250	300	300	350	300
		250	300	300	250	250	300	350	300
		250	250	300	250	250	300	300	250
			250	300		250	250	300	250
			250	250		250	250	250	200
			250	250			250	250	200

SELECTION	SELECTION OF 10 mm THICK BARS													
Bars	I (A)													
	1 bar per	pole			2 bars pei	r pole			3 bars pe	r pole				
Cross- section	Edge	ewise	FI	lat	Edge	ewise	FI	lat	Edge	ewise	F	lat		
(mm)	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30		
80 x 10	1460	1270	1150	950	2500	2150	1700	1500	3450	2900	2500	2000		
100 x 10	1750	1500	1350	1150	3050	2550	2000	1650	4150	3500	2900	2400		
120 x 10	2000	1750	1650	1450	3600	2920	2500	2000	4800	4000	3500	3000		

pk (kÂ)	1 bar per po	ole		2 bars per p	oole		3 bars per	oole	
	80 x 10	100 x 10	120 x 10	80 x 10	100 x 10	120 x 10	80 x 10	100 x 10	120 x 10
20	1700	1700	1700	1700	1700	1700	1700	1700	1700
25	1600	1700	1700	1700	1700	1700	1700	1700	1700
30	1350	1550	1700	1700	1700	1700	1700	1700	1700
35	1150	1300	1450	1700	1700	1700	1700	1700	1700
40	1050	1150	1300	1500	1700	1700	1700	1700	1700
45	900	1050	1150	1350	1550	1700	1700	1700	1700
50	850	950	1050	1200	1400	1550	1600	1700	1700
60	700	800	850	1000	1150	1300	1350	1550	1700
70	600	700	750	900	1000	1100	1150	1300	1500
80	550	600	650	750	900	1000	1000	1150	1300
90	500	550	600	700	800	900	900	1050	1100
100	450	500	550	600	700	800	850	900	950
110	400	450	500	550	650	750	750	800	800
120	350	400	450	550	600	650	700	750	750
130	350	350	400	500	550	600	650	700	700
140	300	350	400	450	500	600	600	650	650
150	300	350	350	450	500	550	550	650	600
160	250	300	350	400	450	500	550	600	500
170	250	300	300	350	450	500	500	500	500
180	250	300	300	350	400	450	500	450	450
190	250	250	300	350	400	450	450	400	400
200	200	250	300	300	350	400	450	400	400
210	200	250	250	300	350	350	400	350	350
220		250	250	300	350	300	350	300	300
230		200	250	300	300	300	300	300	300
240			200	250	300	250	300	250	250
250			200	250	300	250	250	250	250

In < 6300 A: supports Cat. Nos 0 373 12/13

Isolating supports Cat. Nos 0 373 12/13 take one to three 10 mm thick flat bars up to 200 mm height. They are used for creating transfer, vertical and side-mounted busbars in cable sleeves.



Position the insulators on the supports according to the thickness of the copper bars.



Fix the supports on the uprights using 4 clip-nuts + screws (tightening torque 10 nm).



Adjust the depth of the busbar to connect it with the other busbars (tightening torque 20 nm).

Supports Cat. Nos 0 373 12/13: 4 mounting possibilities



Bottom horizontal main busbar



P = 975 / 725 / 475 mm

Side-mounted in internal cable sleeve



Transfer busbar



To prevent contact between the bar and the side panel, position the bar in the centre of the last support.

	SELECTION OF 10 mm THICK BARS												
Dama							A)						
Bars	1 bar per pole 2 bars per pole 3 bars per pole								9				
Cross-	Edge	wise	Fl	.at	Edge	wise	Fl	.at	Edge	wise	Fl	at	
section (mm)	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	IP < 30	IP > 30	
200 x 10	3300	3000	2750	2400	5200	4800	3600	3250	7000	6400	5400	4800	

THE SUPPO	ORTS ACCORI	DING TO THE	PEAK
	200 X 10	200 X 10	200 X 10
lpk (kA)	1 BAR PER POLE	2 BARS PER POLE	3 BARS PER POLE
20	1700	1700	1700
25	1700	1700	1700
30	1550	1700	1700
35	1300	1450	1700
40	1150	1350	1700
45	1050	1150	1600
50	950	1050	1450
60	800	900	1250
70	700	800	1100
80	650	700	950
90	600	650	850
100	500	600	750
110	450	550	700
120	400	500	650
130	400	500	600
140	350	450	550
150	350	400	500
160	350	400	500
170	300	400	450
180	300	350	450
190	300	350	400
200	250	300	350
210	250	300	350
220	200	250	300
230	200	250	300
240		200	250



Supports Cat. Nos 0 373 12 and 0 373 24 enable the depth of the busbar to be adjusted so that it can be aligned with and connected to other busbars.



Additional supports Cat. Nos 0 373 13 and 0 373 25 hold the bars in relation to one another and maintain the maximum distances between supports when it is not possible to fix them on the enclosure frame.

2 MOUNTING ALUMINIUM BUSBARS

In addition to the copper standard distribution range, legrand offers the possibility of creating standard distribution with c-section aluminium bars. This range includes staggered supports in addition to the supports and bars for optimised distribution. It is therefore possible to create aluminium or mixed copper and aluminium standard distribution. In this section, only assemblies not covered in the optimised distribution section will be described.

Bar supports are available in "aligned ver-sion" for mounting behind uprights, at the back of enclosures or horizontally, and in "staggered version" for mounting in internal or external cable sleeves. (see optimised distribution section) These two versions are available with 75 mm fixing centres for mounting in enclosures depth 725 mm or 475 mm (with partial chassis) and with 125 mm fixing centres for mounting in enclosures depth 975 mm or 725 mm (with partial chassis).



Aligned support Cat. No 0 373 66



Cat. No 0 373 68





It is important to comply with the maximum distance between supports for every assembly in order to ensure that the busbars are held in position when subjected to electrodynamic forces.

Aligned version - Maximum distances between supports (mm)

								lpk	(KA)					
In		C-SECTION	SUPPORTS	30	40	52	63	73	84	94	105	132	154	
		BARS	SUPPORTS					lck	(kA)					
$IP \leq 30$	IP > 30			15	20	25	30	35	40	45	50	60	70	
800	630	1 0 202 5/	0 373 66	1600	1000	800	700	600	600	500	500	-	-	
800	630	1 x 0 373 54	0 373 68	1600	1000	800	600	500	500	400	400	-	-	
1000	800	1 x 0 373 55	0 373 66	1600	1000	800	700	600	600	500	500	-	-	
1000	800	1 X U 3/3 55	0 373 68	1600	1000	800	600	500	500	400	400	-	-	
1050	1000	1 x 0 272 E/	0 373 66	1600	1000	800	700	600	600	500	500	500	400	
1250	1000	1 x 0 373 56	0 373 68	1600	1000	800	600	500	500	400	400	400	300	
1450	1250	1 × 0 272 57	0 373 66	1600	1000	800	700	600	600	500	500	500	400	
1400	1250	1 x 0 373 57	0 373 68	1600	1000	800	600	500	500	400	400	400	300	
1750	1600	1 - 0 272 50	0 373 66	1600	1000	800	700	600	600	500	500	500	400	
1750	1600	1 x 0 373 58	0 373 68	1600	1000	800	600	500	500	400	400	400	300	
3500	3200			2 x 0 373 66	1600	1000	800	700	600	600	500	500	500	400
3500	3200	2 x 0 373 58	2 x 0 373 68	1600	1000	800	600	500	500	400	400	400	300	

Staggered version - Maximum distances between supports (mm)

								lpk	(KA)					
In		C-SECTION	SUPPORTS	30	40	52	63	73	84	94	105	132	154	
		BARS	SUPPORTS					lck	(kA)					
$IP \leq 30$	IP > 30			15	20	25	30	35	40	45	50	60	70	
800	630	1 x 0 373 54	0 373 67	1600	1000	800	700	600	600	500	500	-	-	
800	630	I X U 3/3 54	0 373 69	1600	1000	800	600	500	500	400	400	-	-	
1000	800	1 x 0 373 55	0 373 67	1600	1000	800	700	600	600	500	500	-	-	
1000	800	1 X U 3/3 55	0 373 69	1600	1000	800	600	500	500	400	400	-	-	
1250	1000	1 × 0 272 E/	0 373 67	1600	1000	800	700	600	600	500	500	500	400	
1200	1000	1 x 0 373 56	1 x 0 373 56	0 373 69	1600	1000	800	600	500	500	400	400	400	300
1450	1250	1 × 0 272 57	0 373 67	1600	1000	800	700	600	600	500	500	500	400	
1400	1250	1 x 0 373 57	0 373 69	1600	1000	800	600	500	500	400	400	400	300	
1750	1/00	4 0 202 50	0 373 67	1600	1000	800	700	600	600	500	500	500	400	
1750	1600	1 x 0 373 58	0 373 69	1600	1000	800	600	500	500	400	400	400	300	
2500	2200		2 x 0 373 67	1600	1000	800	700	600	600	500	500	500	400	
3500	00 3200 2 x 0 373 5 8	2 X U 3/3 58	2 x 0 373 69	1600	1000	800	600	500	500	400	400	400	300	

Vertical mounting at the back of the enclosure

This type of mounting is useful when the branch busbar cannot be side-mounted. Devices with rear terminals must then be connected. Busbar supports Cat. No 0 373 66 (75 mm fixing centres) can be mounted directly at the back of the cable sleeve or at the back of 725 or 975 mm depth enclosures using the intermediate upright Cat. No 0 205 20/208 51. Busbar supports Cat. No 0 373 68 (125 mm fixing centres) can be mounted directly at the back of 725 mm depth enclosures or at the back of 975 mm depth enclosures using the inter-mediate upright Cat. No 0 205 20/208 51.



The connection with the main horizontal busbar must be customised. The use of flexible bars is ideal for this.





Side-mounting in a cable sleeve

This type of mounting is particularly suitable for ease of connection. The aluminium busbar is placed in a cable sleeve. The staggered busbars provide excellent accessibility from the side for making connections. The supports can be fixed between the structural uprights of the sleeve or between the rear of the func-tional upright and the structural upright. It is also possible to use the intermediate upright Cat. No 0 205 20/208 51 to mount supports Cat. No 0 373 66 in 725 or 975 mm deep sleeves, or supports Cat. No 0 373 68 in 975 mm deep sleeves. The main busbar can be created independently using flat bars (with 1600 A supports Cat. No 0 373 22 or 4000 A supports Cat. No 0 373 24) or using single c-section aluminium bars (with 1600 A supports Cat. No 0 373 66) or double c-section aluminium bars (3200 A supports Cat. No 0 373 68).



The joining kit is not required when creating a double busbar in an external cable sleeve. Busbar supports Cat. Nos 0 373 67/69 are fixed head to tail either side of the sleeve.









As the fixing centres between busbars are the same (75 mm for supports Cat. Nos 0 373 22 and 0 373 66, 125 mm for supports Cat. Nos 0 373 24 and 0 373 68), connection is very easy using single con-nection plates (Cat. No 0 373 82) or double connection plates (Cat. No 0 373 83).



XL³ 4000 external cable sleeves can be used to mount a double aluminium busbar without any accessories. however only a single busbar can be mounted in internal cable sleeves.



Tightening torques

The tightening torque of the five M8 screws used to hold the busbars in place must be 20 nm. The tightening torque of the four M6 screws used to fix the supports on the XL³ structure must be between 10 and 15 nm.



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Notes	

MOUNTING DEVICES AND EQUIPMENT

With their comprehensive range of equip-ment, XL³ 4000 enclosures can take legrand breaking and protection devices and their accessories (add-on modules, motor-driven handles, etc.). DPX circuit breakers (fixed, plug-in and draw-out versions) can be installed vertically or horizontally in these enclosures.



For comprehensive details of the possible configurations and to select the corresponding fixing devices and faceplates, please consult the selection charts in the legrand general catalogue.

1 FIXING DEVICES INSTALLATION

The enclosure must be equipped with functional uprights, prior to the installa-tion of different fixing devices (see page 11).

2-position 3 rails and plates for fixed devices with front terminals and no rotary or motor-driven handle are mounted on the front of reducedwidth or standard functional uprights. Adjustable fixing devices for fixed DPX³ with front terminals equipped with a rota-ry or motor-driven handle, fixed DPX³ with rear terminals, and plug-in or draw-out DPX³, as well as plates for DPX³ supply inverters and plates for DMX³ devices, are mounted on the internal surface of standard uprights only. runners, at 50 mm intervals, are used to guide adjust-able plates. The oblong notches are used to lock the plates at the correct depth.



The standard functional uprights in Xl³ 4000 enclosures have 2 usable surfaces with numerous perforations.

Reduced-width upright



Front surface

Standard upright





The \bigcirc shaped holes are designed to take 1/4 turn clip-nuts. The Ø 6 mm holes on the front surface are used to fit the fixing bracket when the uprights are cut (see page 11). The uprights also have Ø 4.5 mm holes for fixing various products using selftapping screws.



Fitting the clip-nuts

Mounting 2-position rails

The position of the rail depends on the height and position of the associated faceplate. The centre of the rail attach-ment pieces corresponds to the axis of the faceplate. It is therefore very easy to determine the position for inserting the attachment pieces on the functional uprights. The top of the functional upright corresponds to the top of the 1st face-plate. This is the reference point or point 0. Example: mounting 2 rails and their faceplates at the top of the enclosure.

- 1st faceplate: height h1 = 300 mm Position of the attachment pieces of the 1st rail in relation to point 0 : 300/2 = 150 mm
- 2nd faceplate : height h2 = 200 mm Position of the attachment pieces of the 2nd rail in relation to the bottom of the 1st faceplate: 200/2 = 100 mm i.e. a total of : 300 + 100 = 400 mm from point 0



MOUNTING DEVICES EQUIPMENT

Mounting fixed plates

The fixing point for plates (for fixed devices with front terminals) always cor-responds to the axis of the associated faceplate. As with rails, it is easy to deter-mine the insertion point for the clip-nuts on the functional upright according to the height and position of the faceplate. The clip-nuts will be inserted in the inner-most holes. example: mounting 2 plates and their faceplates at the top of the enclosure.

- 1st faceplate: height h1 = 400 mm Position of the clip-nuts in relation to point 0: 400/2 = 200 mm.
- 2nd faceplate: height h2 = 300 mm Position of the clip-nuts in relation to the bottom of the 1st faceplate: 300/2 = 150 mm i.e. a total of: 400 + 150 = 550 mm from point 0.





The plates enable the device to be mounted facing either direction (incoming line on the right or left) with the same faceplate.





The plates have numerous cut-outs for feeding though conductors. seal Cat. No 0 202 40 (length 20 m) is used to protect the cables.

Mounting adjustable fixing devices and plates

Adjustable fixing devices are used for mounting all DPX³ devices vertically in all configurations (fixed, plug-in, drawout, front terminal, rear terminal, with or without add-on module mounted underneath, etc.). The adjustable plates are used for mounting all these devices horizontally.

Positioning in terms of height

The \triangleleft markings correspond to the axis of the faceplate, on the front of the devices. It is therefore easy to determine the vertical position of the device according to the height and position of the associated faceplate.



Positioning in terms of depth

The greater the depth of the device, the further back it must be positioned (rotary handles, motor-driven handles, etc).



Slide the plate to the required position.



Using a combination of uprights and spacers it is possible to have 6 adjustable positions in terms of depth, marked A to F on the above drawing.



XL Pro³ can be used to display the exact adjustment position for the proposed plate.

The locking springs of the fixing devices and plates can be fitted either way round, and are not factory-fitted. Their position depends on which way round the fixing device is mounted.



Fitting the springs.



Pressing the spring unlocks the plate.

MOUNTING DEVICES EQUIPMENT

Mounting plates for DMX^a

These plates are available for fixed and draw-out version DMX³, for 24 and 36 module enclosures. They consist of a plate and a strengthening crosspiece (Only one plate for the DMX³ 1600).

Mounting example - DMX³ 2500-4000: Start by fitting the 4 clip-nuts on either side: 1 on the faceplate support frame and 3 on each surface of the upright.





The clip-nuts are inserted at a distance of 25 mm for the draw-out version and 75 mm for the fixed version.

Fix the strengthening crosspiece on the rear and internal surfaces of the functional uprights using four M6 screws.



The plate is then fixed using eight M6 screws:

- 4 on the top of the strengthening crosspiece
- 2 on the front surfaces of the functional uprights
- 2 on the structural uprights of the enclosure



When there are two DMX³ in the same enclosure (for example, supply inverter), it is necessary to leave a space of 200 mm between the two faceplates. This space corresponds to the height required for the transfer busbar.







Then position 2 clip-nuts 50 mm above the screws.



Pre-position the support on the screws then allow it to slide until it stops.



Tighten the 6 screws on each upright.

MOUNTING DEVICES EQUIPMENT

Mounting plates for DPX³ supply inverters

Using the special plates, fixed, plug-in or draw-out version supply inverters, from the DPX³ 160 up to the DPX³ 1600, can be created, with manual or motor-driven handle.



The plates for supply inverters are supplied with all the parts for creating the mechanical interlock for the devices.



DPX³ 1600 supply inverter being mounted.

Plates Cat. Nos 0 206 86/87 for DPX³ 1600 are fixed either directly on the uprights (draw-out devices), or using the support provided (fixed devices).



Direct insertion of plate Cat. No 0 206 86 on the functional upright.



Locking the plate using M6 screws and clip-nuts.

Universal plates

The depth of solid plate Cat. No 0 205 40 can be adjusted. Mounted in an XL³ 4000 enclosure, height 2000 mm, width 725 mm, it enables the whole usable faceplate height to be used for mounting non-modular control and auto-mation products. This solid plate can be fixed at different depths.



Mounting the solid plate.

Perforated universal plates Cat. Nos 0 206 41/42 or solid universal faceplates Cat. Nos 0 206 43/44/45 or adjustable plate Cat. Nos 0 206 40/47/48/49/90 can be used for mounting any device at the back of the enclosure (maximum height available under faceplate: 145 mm).



Perforated plate.



Solid plate.



The perforated plates take M4 and M5 clip-nuts Cat. Nos 0 364 40/41.

2 MOUNTING DEVICES ON L RAILS

Indexed 2-positions \Box rails Cat. Nos 0 206 01/51 (capacity 24 and 36 modules respectively) are made of a particulary rifgid aluminium profile.

They can be used for mounting modular devices and DPX³ 160 and 250 moulded case circuits breakers.

Device for fixing on rail with «2 indexed positions» Cat. Nos 0 206 00/50.

Tool-free mounting:



1 - Fitting the attachment pieces on the functional uprights



2 - Clipping the rail onto the attachment pieces (2 positions)

It is also possible to use plates equipped with rails (Cat. Nos 0 206 11, 0 206 61 or 0 206 08). These enable DPX³, DX³, etc. products to be installed on the same rail using spacer Cat. No 0 262 99 or 4 052 26.



Adaptors for DPX³ 160 & 250

These adaptors are used for mounting fixed version DPX³ 160 and 250 vertically, directly on a rail. This provides a great deal of free-dom of choice and the ability to combine different products on the same row. To do this, the adaptor specific to each circuit breaker must be mounted first.

DPX ^ª 160	EARTH LEAKAGE MODULE	SIDE MOTOR- DRIVEN HANDLE	DPX [®] 250
4 210 68	with or without	with	4 210 69
4 210 71	without	without	4 210 72
4 210 73	with	without	4 210 74

To create a DPX³ 160 or 250 supply inverter, Cat. No 4 210 58 must be used.



MOUNTING DEVICES EQUIPMENT

3 MOUNTING DEVICES ON PLATES

Fixed plates

After fitting the clip-nuts on the plate [1], the following steps consist in inserting the cage nuts on the functional uprights [2], fix the devices on their plate [3] then hang [4] and lock with the screws provided [5] the plates on the functional uprights previously fitted with cage nuts.

[4] Scil When one plate can take various types of DPX³ 630 and 1600, the fixing holes are marked with numbers (the same numbers are always used for the same type of device).

Plates numbered 3 and 4 are dedicated for DPX 250 and DPX³ 630.

Plates that are specifically for one device only (e.g. : DPX³ 1600 or DPX³-IS) have no markings.

Adjustable plates

These plates are used for mounting DPX³ devices horizontally. They are specifically for one model of device.



Fix the device with its fixing screws in the tapped holes on the plate.





Mounting DMX³

Fixed or draw-out DMX³ devices are placed on the plate and fixed using screws and nuts (see page 64). Given the weight of the devices, the use of lifting equipment is strongly recommended.



Installing a draw-out DMX³ in its base.



4000 A assembly with DMX³ supply inverter at the supply end.

4 EQUIPMENTS ON DOORS AND REMOTE HANDLES

Front handles on doors

The rotary handles of DPX³ and DPX³-IS can be located remotely on curved doors only.



Remote rotary handle Cat. No 4 210 04 for DPX 3 250

Control and signalling devices on the door

50 mm deep osmoz control and signalling units can be mounted on metal curved doors with a distance of 94 mm between the faceplate and the door.



If the supply voltage of the control and signalling units is greater than 50 v, an equipotential link must be created with the door or the side panel using conductor Cat. No 0.373.85.



To feed through the conductors, use a solid faceplate fitted with a Plexo cable gland Cat. No 0 919 14 - ø 23 mm (see page 17).

MOUNTING DEVICES EQUIPMENT

5 XL PRO³ DESIGN SOFTWARE

XL PRO³ 6300 is intended for designers and builders of power distribution panels up to 6300 A.

It is ideal for the most demanding designs such as Increased safety, separation forms, or optimised or conventional distribution up to 6300 A.

XL PRO³ 6300 automatically determines the type of enclosure, calculates the costs, draws up the purchase order and draws the circuit and installation diagrams, etc.

And as any modifications you make are incorporated immediately, with XL Pro³ it is simplicity itself to design your distribution cabinets and enclosures.

Example of a design: XL PRO³ selects and adds the products that make up the panel, by selecting their characteristics. The characteristics of the catalogue num-bers and their accessories are shown as they are selected.



XL PRO³ automatically calculates which enclosures can take all the products used in the panel. This calculation takes into account the dimensions of the devices and their fixing devices, and the space required to connect them.

Depending on the type of enclosure cho-sen, XL PRO³ instantly calculates the overall dimensions and the total faceplate height used, while taking into account the number of enclosures required.

The preview module displays various views of the panel and can be used to make certain adjustments to it: dimensions of the enclosures and busbars, product layout, addition of accessories, etc.

All the documents contained in the study can be printed out to make up the folder.






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Notes	

WIRING AND CONNECTION

1 CABLE ENTRY

Cable entry apertures

The enclosures and cable sleeves in the XL³ 4000 range all have cable entry apertures at the bottom.

Sliding plates enable the size of the aperture to be adapted to the quantity of cables to be fed through.



For enclosures whose width is the same as the depth, the direction in which the aperture opens can be altered.

Plinths

The plinths consist of 4 corner pieces and 4 plinths. They are 100 mm high. The plinths can be removed for feeding through cables. They can be removed from one or more sides as required.



The plinths can be placed on top of one another (2 max.) for better spreading of the cables.

U cable trays

Cable trays Cat.Nos 0 464 69 and 0 464 70 can be vertically installed in the sleeves. Before, install 2 fixing crosspieces Cat.Nos 0 205 21/22/23 then fix your cable tray on the crosspieces using rails.



Other catalogue numbers are available for cable trays and rails on Legrand Cable Management catalogue.

Côtes des 2 réfs. de grilles guide-câbles

	Cat. No 0 464 69	Cat. No 0 464 70
Length	3000 mm	3000 mm
Overall width	218 mm	424 mm
Inside width	200 mm	400 mm
Overall depth	64 mm	64 mm
Inside depth	54 mm	54 mm



Fixing cables on the tray can be done using Colson rings of suitable length and width.

2 PROTECTIVE CONDUCTORS

As a general rule, the main terminal for the protective conductors in XL³ 4000 distribution assemblies is created using a copper bar fixed at the bottom of the enclosures. The following must be connected to this terminal:

- The main protective conductor
- Optionally, the protective conductor of the transformer
- The protective conductors of the load circuits
- The equipotential links

The minimum cross-section of this bar can be determined using the table below:

MINIMUM CROSS-SECTION OF THE PRO- TECTIVE CONDUCTOR ACCORDING TO THE CROSS-SECTION OF THE PHASE CONDUCTOR (ACCORDING TO EN 60439-1)			
Cross-section of the supply phase con- ductors S (mm²)	Minimum cross- section of the corresponding protective conductor SPE (mm²)		
S ≤ 16	S		
$16 \le S \le 35$	16		
$35 \le S \le 400$	S/2		
$400 \le S \le 800$	200		
S > 800	S/4		



Main terminal consisting of a copper or aluminium bar.



3 LINA 25 DUCTING

Fixing on supports

The ducting fixing supports can be used to mix various heights of lina 25 ducting together vertically and horizontally in one enclosure, while optimising the connection of devices.

- 24 modules: Cat. No 0 204 70
- 36 modules: Cat. No 0 205 70





Side for vertical mounting

WIRING AND CONNECTION





The ducting is fixed on the supports using the isolating rivets provided.



Additional isolating rivets, Cat. No 0 366 46, are available separately.



Supports Cat. No 0 204 70 are supplied with a profile to strengthen the horizontal ducting in 36-module enclosures.

Direct fixing on the functional uprights



Rivets Cat. No 0 200 80 are used to fix lina 25 ducting directly on the functional uprights.



Rivet Cat. No 0 200 80

4 OUTPUT TERMINAL BLOCK

■ Vertical terminal block in cable sleeve Use crosspieces Cat. Nos 0 205 21/22/23 according to the depth of the cable sleeve. The ____ rail is cut to the required size then fixed on the crosspieces using M6 clip-nuts Cat. No 0 200 92.



Horizontal terminal blocks in enclosures

Adjustable and inclinable terminal blocks Devices Cat. Nos 0 206 02/52 consist of a 2 rail and 2 supports, enabling the depth and slope of the rail to be adjusted. They are designed to create staggered terminal blocks at the top or bottom of 24-module or 36-module enclosures.



Fixed terminal blocks

Universal rails Cat. Nos 0 206 04 (24 modules) and 0 206 54 (36 modules), are fixed directly on the functional uprights at the top or bottom of the enclosure.



INSTALLING THE ENCLOSURES

Transport and handling

Enclosures can be handled using forklift trucks or via lifting rings Cat. No 0 205 82. Before carrying out any handling opera-tions, side-by side enclosures must be joined together using brackets Cat. No 0 205 88 (A) and joining plate Cat. No 0 205 89 (B).



Handling using a truck

This type of handling is only suitable for enclosures equipped with plinths that can be placed side by side. It will then be possible to remove the side panels of the plinths to insert the forks of the forklift truck. Of course, great care must be taken with this type of handling to avoid the enclosure toppling over. It is therefore recommended that the necessary precautions are taken.

Lifting

The lifting rings are generally used for lifting enclosures less than 2 m wide. Care must be taken to ensure that the angle formed by the cables is always better than 45°. It is also necessary to check that the maximum load permitted by the cables and the lifting equipment is adequate.





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Lifting panels with angled profiles

When the units which make up the panel are more than 2 m wide or when they contain components that are particularly heavy, the handling operations can be carried out using angled profiles. It is advisable to check that the cables and lifting equipment are suitable and to ensure that the angle formed by the cables remains less than 45°.



Fixing to the floor

Fixing the panel to the floor.

For panels that are to be fixed to the floor, the floor must be level with no uneven areas (its maximum slope must be 1‰, both lengthwise and widthwise in relation to the panel).

The panel must be fixed to the ground using expansion bolts: a 15 mm diameter drill must be used to make the holes in the floor into which the M8 bolts must then be inserted. For very wide panels, the operations can be made easier by fixing them using sliding bolts in the C-section metal profiles installed when the floor was laid.



INSTALLING THE ENCLOSURES

Dimensions

	DIMENSIONS (mm)		А	В
	WIDTH	DEPTH		
XL ³ 4000	475	475	392	392
		725		642
		975		892
	725 475	475	642	392
		725		642
		975		892
	975	475	892	392
		725		642
		975		892
XL ³ 6300	1425	475	1342	392
		725		642
		975		892

To obtain the dimensions of the plinth, add 80 mm to dimensions A and B.



B

Centre distances between the fixing points.

	DIMENSIONS		А	В	С	E	F
	WIDTH	DEPTH					
XL ³ 4000	475	475	1932 / 2132	475	475	100	300
		725		475	725	350	300
		975		475	975	600	300
	725	475	1932 / 2132	725	475	100	550
		725		725	725	350	550
		975		725	975	600	550
	975	475	1932 / 2132	975	475	100	800
		725		975	725	350	800
		975		975	975	600	800
XL ³ 6300	1425	475	2132	1425	475	100	1240
		725		1425	725	350	1240
		975		1425	975	600	1240

Internal distance between faceplate and door: Flat door 47 mm - curved door 87 mm.

External dimensions





The dimensions shown are for a structure comprising the roof/base and functional uprights. The dimensions relating to the thicknesses of the doors and the external panels must be added to these measure-ments, on the required sides, as indicated below:

- Sheet metal panels: 6.5 mm
- Glass or sheet metal doors: 6.5 mm
- Curved glass doors: add 53.5 mm

Example of the calculation of the total dimensions: external dimensions with curved door and rear panel for a 475 mm deep enclosure: C + 6.5 + 53.5

475 + 6.5 + 53.5 = 535 mm

Accessories

EQUI	PMENT AND ACCESSORIES FOR ENCLOSURES	24 MODULES	36 MODULES	
	Perforated plate (Height 200 mm)	0 206 41		
	Perforated plate (Height 400 mm)	0 206 42		
	Solid plate (Height 200 mm)	0 206 43		
	Solid plate (Height 400 mm)	0 206 44	0 206 46	
	Solid plate (Height 600 mm)	0 206 45		
	Adjustable solid plate (Height 100 mm)	0 206 40	0 206 90	
	Adjustable solid plate (Height 200 mm)	0 206 47	0 206 49	
	Adjustable solid plate (Height 400 mm)	0 206 48		
	Solid plate supplied with runners (Height 1800 mm)	0 205 40		
	Universal ∟r rail	0 206 04	0 206 54	
	Adjustable universal	0 206 02	0 206 52	
6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Clip-nuts for M6 screws (x 20)	0 20	00 92	
	M6 screws (x 50)	0 20	00 91	
	Equipotential link conductor	0 3'	73 85	
	Aerosol paint spray (400 ml) RAL 7035		0 200 98	
0- 0- 0- 0-	M12 lifting rings (x 4)		0 205 82	
BUTTY TOUT	Screws for structural joining	0 20	05 86	
4949 7777 7777	Flat reinforcement plates (x 2)	0 20)5 89	
	L-shaped reinforcement plates (x 2))5 88	
<u>_</u>	IP 55 sealing kit for use when joining enclosures (20 m)		0 205 85	
	Kit for joining plinths		05 10	
	Spacers for functional uprights (x2)	0 20	07 50	
THE FILL OF THE FI	Additional brackets for functional uprights (x2)	0 20	05 30	
@9 m j.).	Lighting kit	0 20)9 89	
	1/4 turn handle: - Position on the left: cam opening faces upward - Position on the right: cam opening faces downward	9 80)2 89	
0	1/4 turn handle: - Position on the left: cam opening faces downward - Position on the right: cam opening faces upward	9 80	02 90	
	Faceplate fixing kit (x4)	9 80)2 92	

	WIRING ACCESSORIES		
	Cable fining suggest	24 modules	0 204 35
ag	Cable fixing support	36 modules	0 204 36
		24 modules	0 205 70
			0 204 70
		25 x 60	0 362 02
	Lina 25 ducting (Width x Height mm)	40 x 60	0 362 07
		40 x 80	0 362 08
		60 x 60	0 362 12
		60 x 80	0 362 13
-	Isolating rivet for direct fixing on functional uprights		0 200 80
	Protective cable seal for cut-outs on plates		0 202 40

	ACCESSORIES FOR FACEPLATES	
•	Set of 2 hinges (for screw-mounting faceplate) Cat.No 0 209 59	0 209 59
	24-module smooth adjustable blanking plate Cat.No 0 200 51	0 200 51
	18-module separable blanking plate Cat.No 0 016 65	0 016 65
	Clip-on holder for adhesive labels Cat.No 0 203 99	0 203 99

ACCESSORIES FOR NATURAL VENTILATION	
Perforated faceplate for natural ventilation (H 200 mm, 24 mod) Cat.No 0 209 49	0 209 49
Ventilation panel for plinth (24 modules) Cat.No 0 205 44	0 205 44
Ventilation panel for plinth (36 modules) Cat.No 0 205 45	0 205 45
Spacers for raising the roof Cat.No 0 205 46	0 205 46

Notes		



All technical dat of the products inside this workshop specifications book are available on: www.legrand.com/ecatalogue/

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		2018	NEW	NEW	NEW
		2010	Plate Valena Life - 1 gang -	XL ³ S 630 distribution enclosures	Plate Valena Allure - 1 gang -
			white/chrome	with 24 modules wide - total 1724x604x249 mm and usable 1650x574x249 mm	aluminium

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