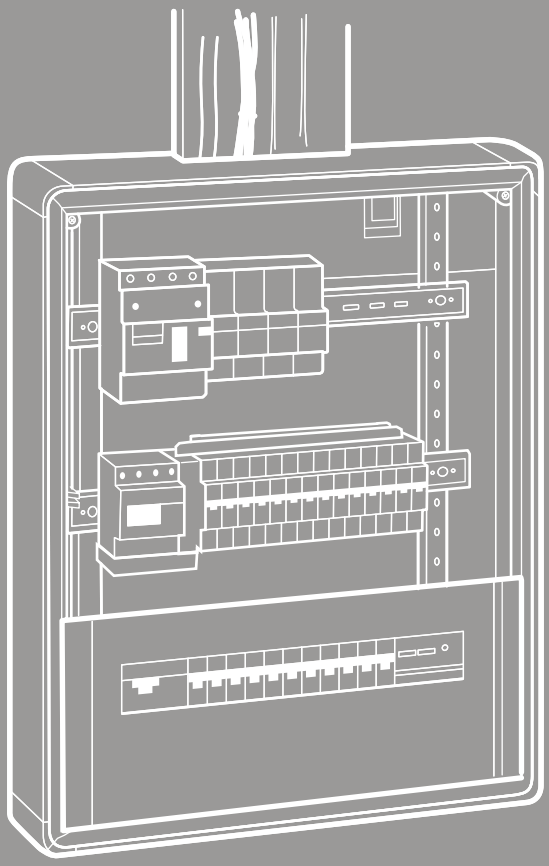
XL³ 160

Distribution enclosures



WORKSHOP SPECIFICATIONS

legrand®

www.legrand.fr

XL^3 160 enclosures are "fully modular", with 2 to 6 rows of 24 modules supplied ready to use (rails and faceplates fitted). They are available in 3 versions:

- Class II insulated enclosures, with 2 to 6 rows

- Metal enclosures, with 2 to 6 rows

- Flush-mounting enclosures, with 3 to 6 rows

Depending on the version, they incorporate DPX 125, DPX 160, Vistop 160 and single and 3-phase French electricity tariff plates.

XL^3 160 has been designed for ease of wiring and connection. These enclosures provide, amongst other things, a large amount of space for wiring, wide connection areas (200 mm top and bottom faceplates), a removable chassis, clever solutions for cable feedthrough and fixing, screws that are common to the whole range ... all with a modern design and finish.

Contents

Class II insulated enclosures

XL³ 160 insulated enclosures with dimensions optimised for distribution up to 160 A. These enclosures are divided into:
- "Fully modular" enclosures with 2 to 6 rows. These can take the DPX 125 and the Vistop 160 with no need for any accessories
- Enclosures with dedicated space and 3 or 4 modular rows, for integrating French tariff kits or the DPX 160.

XL³ 160 insulated enclosures have been designed to simplify wiring and connection:
- Side panels can be removed separately
- Removable chassis
- Frame can be dismantled

XL³ 160 also offers original solutions for holding and running the wiring, a large working area and a high-quality finish.

CHARACTERISTICS

Class II ⧈ insulated enclosure

Short-circuit resistance Ipk: 20 kÂ

IP 30, IP 40 with door and IP 43 with door and seal
IK 04, IK 07 with door

Conforming to standards IEC 60439-1 and 60439-3

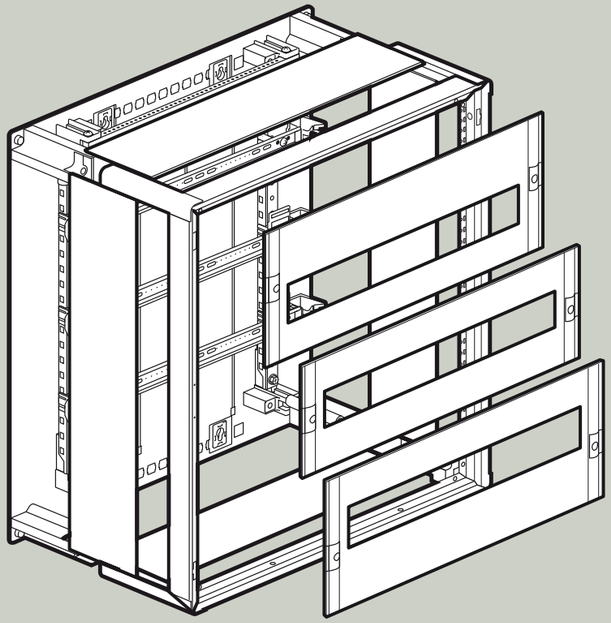
Fireproof according to IEC 60695-2-1-750°C/5s

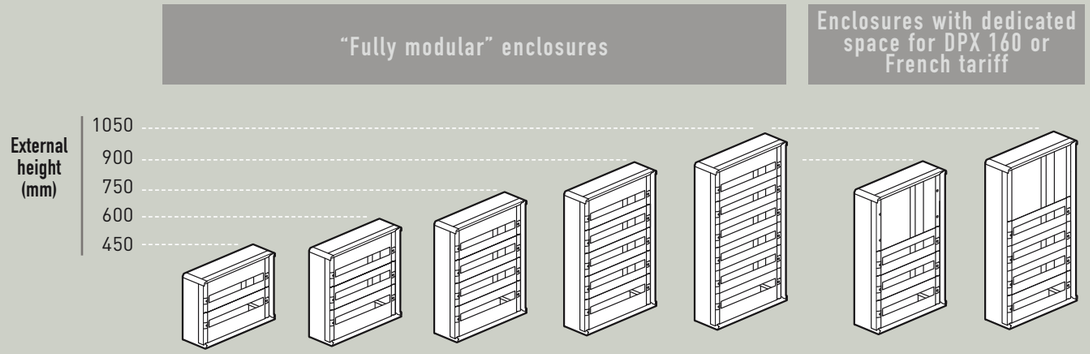
Suitable for installations in public buildings

Can take devices up to 160 A

Colour RAL 7035

Supplied complete with rails and faceplates, wire guide rings for vertical wiring and brass bar for protective conductors.





Cat. No.		200 52	200 53	200 54	200 55	200 56	200 95	200 96
Modular capacity		2 rows	3 rows	4 rows	5 rows	6 rows	3 rows	4 rows
Modules		48	72	96	120	144	72	96
Rounded door	solid	202 52	202 53	202 54	202 55	202 56	202 55	202 56
	glass	202 62	202 63	202 64	202 65	202 66	202 65	202 66
Flat door	solid	202 72	202 73	202 74	202 75	202 76	202 75	202 76
	glass	202 82	202 83	202 84	202 85	202 86	202 85	202 86

See accessories on page 36

Class II insulated enclosures (continued)

A PREPARING THE ENCLOSURES

XL³ 160 insulated enclosures are supplied fitted with ⊔ rails on removable chassis, faceplates, wire guide rings for vertical wiring, and a brass bar for connecting protective conductors. The cardboard packaging can be re-used for delivery to the site.

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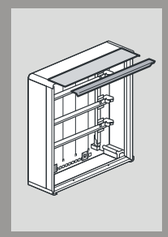
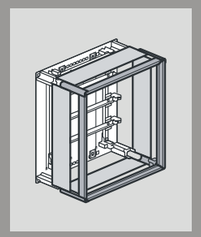
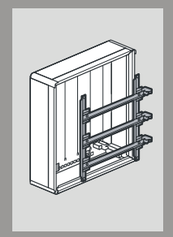
XL³ 160 offers you three possibilities, to suit your preferred way of working:



Remove the side panels individually



Remove the faceplate support frame and the side panels

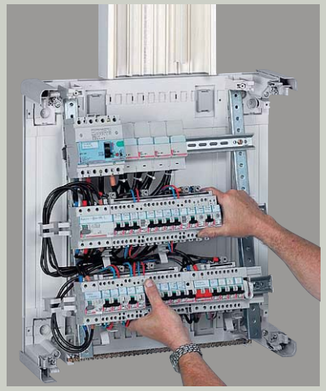


Remove the chassis

1. Wiring at the back of the enclosure

To obtain maximum access for wiring, XL³ 160 enclosures can be completely dismantled. Simply remove the faceplate support frame and all the side panels.

After removing the top and bottom faceplates, unscrew the 4 faceplate frame retaining screws



After completely removing the frame and the side panels, there is full access for wiring

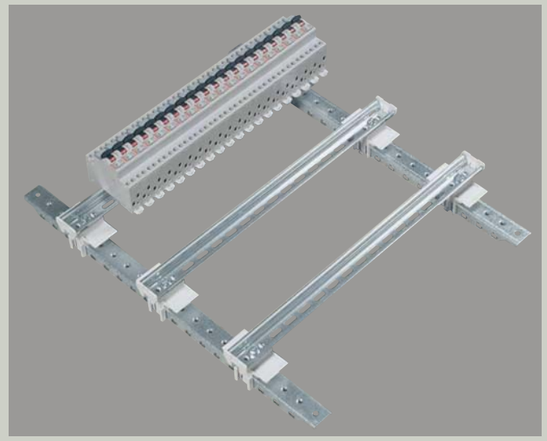
It is also possible to remove the side panels independently. In this case, it is not necessary to remove the faceplate support frame. Simply unscrew the side panel retaining screws.

Each side panel is held in place by 2 screws

2. Wiring on chassis only

The chassis can be removed from the enclosure so that the wiring can be carried out in the workshop while the enclosure may already be installed on site.

With the faceplates removed, the chassis can be removed from the enclosure after unscrewing the 4 retaining screws



It is very easy to work on the chassis when it is removed from the enclosure

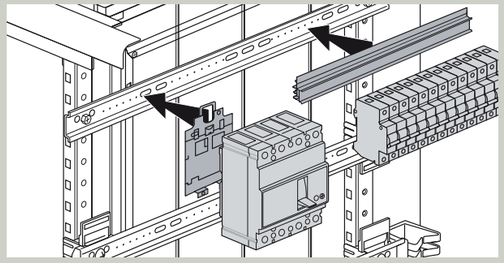
Class II insulated enclosures (continued)

B MOUNTING THE DEVICES

1. Fitting DPX units

DPX 125

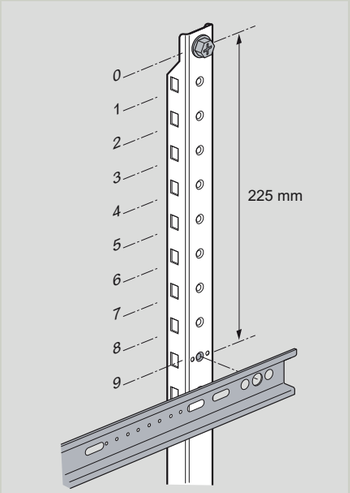
The DPX 125 is incorporated in the enclosures with no need for any additional accessories, apart from plate Cat. No. 262 08 for fixing the device on the ⊔ rail. A height spacer Cat. No. 262 99 can be mounted on the same rail so that Lexic devices or a modular distribution block can be installed next to the DPX.



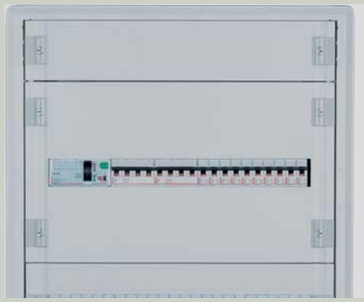
The DPX 125 is mounted in a low position on a rail: remove the isolating supports and refit the rail directly on the functional uprights using the two M6 x 10 screws provided

DPX 160

The DPX 160 can be incorporated in enclosures Cat. Nos 200 95/96 which have a dedicated 400 mm space, which is large enough for connecting the device. It is mounted on ⊔ rail Cat. No. 200 00 using plate Cat. No. 262 09. A 300 mm faceplate Cat. No. 203 60 is used for the DPX 160 itself, and a 100 mm solid faceplate Cat. No. 203 91 for ease of spreading the cables. In the same way as for the DPX 125, modular devices can be added to the rail.



Install rail Cat. No. 200 00 225 mm from the chassis attachment point (9th hole)



Install the 100 mm and 300 mm faceplates

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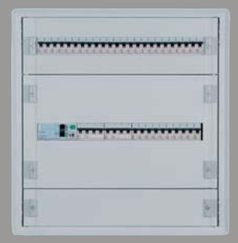
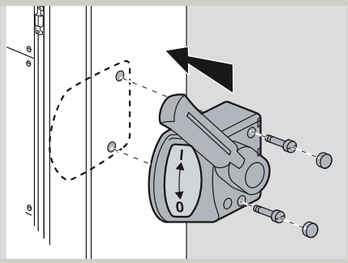


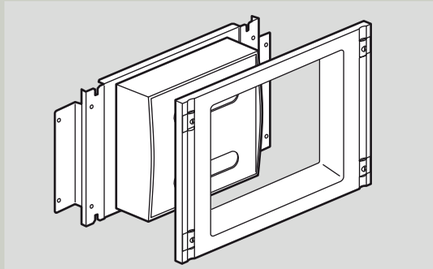
The enclosures can be turned upside down if the main device has to be mounted at the bottom of the panel

2. Fitting the Vistop 63 to 160 A

Vistops with side handle are supplied with the accessories required for locating the handle on the outside of the enclosure.



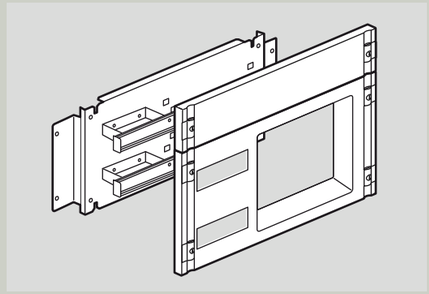
A template is provided for drilling the side panel



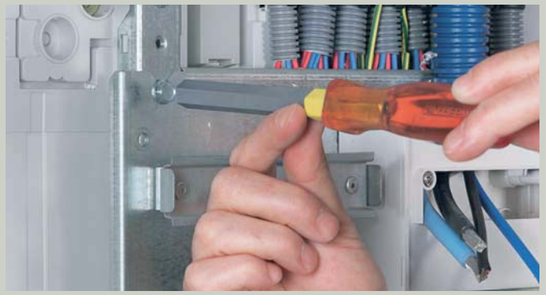
Kit Cat. No. 202 31 supplied with connection plate for MCB + 3-phase electronic meter

3. Fitting French electricity tariff kits

Enclosures with dedicated space, Cat. Nos 200 95 and 200 96 can take all French electricity tariff connection solutions using kits Cat. Nos 202 30 and 202 31. Kit Cat. No. 202 30 has two 2 x 8 module rails to optimise the space when installing modular devices next to the incoming MCB.



Kit Cat. No. 202 30 for subscriber MCB only (single phase 90 A or 3-phase 60 A) with plates Cat. Nos 011 91/92, or MCB + single phase meter with plates Cat. Nos 011 81/82



The plates are fixed on the chassis uprights:
- 4th and 14th holes for kit Cat. No. 202 30
- 1st and 13th holes for kit Cat. No. 202 31

Suitable doors according to the configuration				
Kit + plate	Flat doors		Rounded doors	
	solid	glass	solid	glass
202 30 + 011 81/91	●		●	●
202 30 + 011 82/92			●	●
202 31			●	●

Class II insulated enclosures (continued)

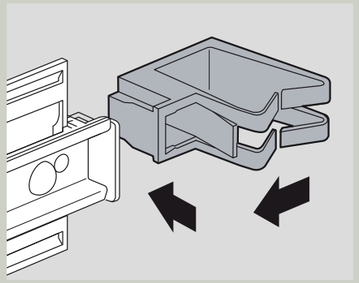
C WIRING AND CONNECTION

1. Wiring

Guide rings

XL³ 160 enclosures are equipped with guide rings for vertical wiring (1 per row). These rings can be mounted on the right or left. They simply clip onto the isolating supports of the ⊔ rails.

Holding vertical wiring in place



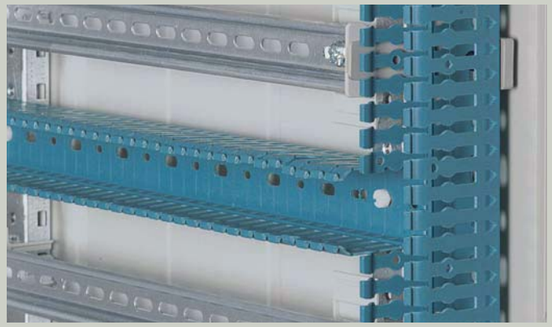
Insert the ring on the side of the support then push it towards the back

XL³ 160 enclosures take guide rings Cat. No. 200 94 for horizontal wiring. These rings fit directly under the rails.

Fitting a guide ring for horizontal wiring

Lina 25™ ducting

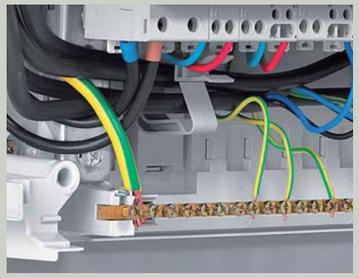
Supports Cat. No. 200 70 are used for installing Lina 25 vertical ducting (40 x 60). The supports clip on in the same way as the vertical wiring guide rings. The ducting is fixed using the isolating rivets provided.



XL³ 160 enclosures also take Lina 25 horizontal ducting: use isolating screws Cat. No. 367 74 to fix them directly on the uprights

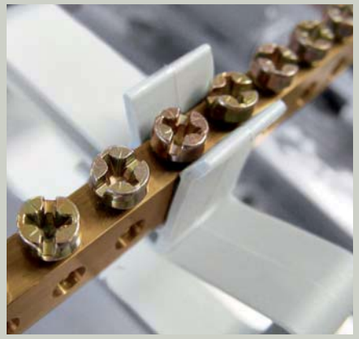
2. Protective conductors

XL³ 160 enclosures are supplied with a brass bar for protective conductors with 2 x 35 mm² holes and 36 x 10 mm² holes. As the enclosure is reversible, the bar can be placed at the top or the bottom.



Bar for protective conductors pre-installed in XL³ 160 enclosures

A second bar Cat. No. 373 00 can be installed either on the integrated supports, or on the guide rings Cat. No. 200 94



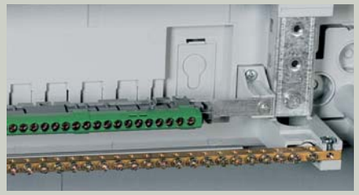
Guide rings Cat. No. 200 94 enable an additional brass bar Cat. No. 373 00 to be installed between the rows

It is also possible to use IP 2x terminal blocks for protective conductors (see below).

3. IP 2x distribution terminal blocks

Legrand IP 2x terminal blocks are installed on 12 x 2 flat bars Cat. No. 048 19, fixed either on the integrated isolating supports, or on supports Cat. No. 200 50. The positions provided at the back of the enclosure permit these bars to be installed horizontally or vertically, on the right or the left.

Screw the supports Cat. No. 200 50 on the back of the enclosures



Horizontal terminal block

Vertical terminal blocks

Class II insulated enclosures (continued)

4. Inserting and fixing cables

The upper and lower side panels of the enclosure can be cut in order to insert cables. Two guidelines are marked to give the cutting heights for 50 and 65 mm ducting

The side panels are easy to cut using a jigsaw

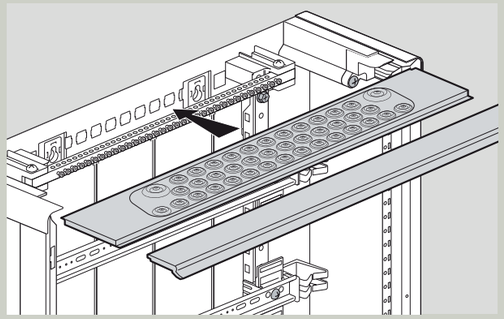


Plate Cat. No. 200 71 with knockout cable entries can be installed in the place of an upper or lower side panel

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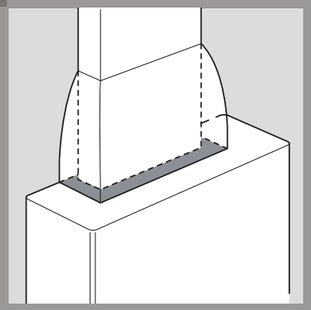


The DLP/enclosure joining strip Cat. No. 201 60 improves the finish and increases the cable spreading volume

The cables can be anchored at the back of the enclosures using Colson clamps.

Knocking out the feedthroughs

Anchoring the cables

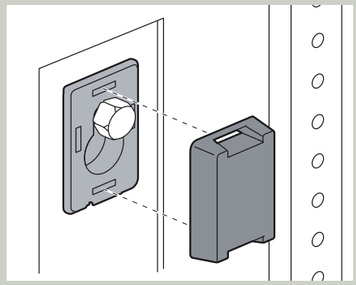
D INSTALLATION AND FINISHES

1. Fixing the enclosures

Internal fixings

Remove the isolating screw covers from the 4 internal fixing points on the enclosure, then knock out the keyhole-shaped holes. Fit the enclosure using four Ø 6 mm screws and washers.

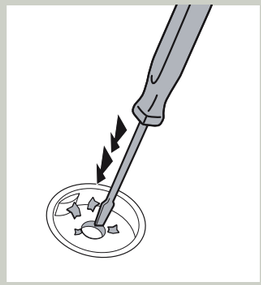
The keyhole shaped openings are used to attach and detach the enclosures



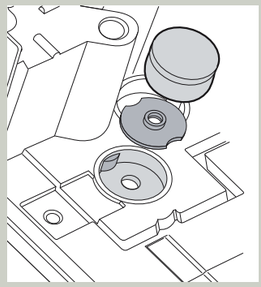
To comply with class II it is essential to put the isolating screw covers back in position

External fixings

Wall-mounting lugs Cat. No. 201 50 can be installed in a horizontal or vertical position.

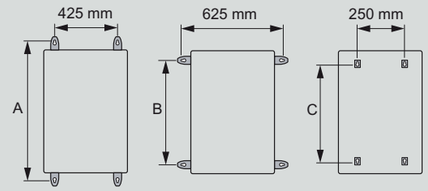


Knock out the holes corresponding to the position of the lugs



Place the special nut and the plastic cover in position then screw in the lug via the rear of the enclosure

Internal and external fixing centres



Enclosure	A (mm)	B (mm)	C (mm)
200 52	500	305	343
200 53	650	455	493
200 54	800	605	643
200 55/95	950	755	763
200 56/96	1100	905	943

Class II insulated enclosures (continued)

2. Faceplates and marking

The faceplates are locked using a sealable ¼ turn fastening.

The shape of the faceplates makes them easy to handle

Sealing the faceplate

As well as the label-holders on all Lexic devices, a self-adhesive marking strip Cat. No. 203 99 for 24-module faceplates is available as an accessory

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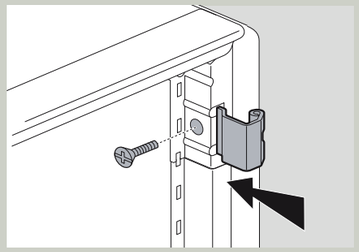
The door pins are designed to be inserted and removed without any tool

3. Fitting the doors

The doors can be fitted to open to the left or the right. Locations for the hinges and the door release are provided on both sides of the enclosure.



Remove the blanking plates then fit the hinges on the frame

The door release is fitted on the opposite side using 2 screws

When fitting the handle, it is essential to fit the metal bracket so that the door locks correctly

4. Achieving IP 43

IP 43 is achieved by fitting seal Cat. No. 201 30 around the door.

The seal must be fitted in the bottom of the door

5. Control and signalling units on door

If control and signalling units are to be fitted on the door, it is recommended that a control voltage of $U \leq 50$ V is used.

For class II installations, the cables supplying the control and signalling units must be treated as class II, and attached and protected using a continuous insulated sheath to prevent them being pulled out and becoming accidentally detached.

If the control voltage is greater than 50 V, the following two possibilities must be considered.
- Class II control and signalling units or similar (insulated body):
simply follow the wiring rules described above.
- Class I control and signalling units or metal body:
connect the door using an equipotential link conductor, and protect the circuits supplying the control and signalling units with devices providing protection against indirect contact.

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Signis control and signalling devices have a plastic insulated body and the contact blocks provide IP 2x protection

+ A wide range of finishes and accessories

All metal flat door

Flat glass door

All metal rounded door

Rounded glass door

Self-adhesive document holder Cat. No. 365 82

Class II insulated enclosures (continued)

E VERTICAL JOINING

The enclosures in the XL³ 160 range are not designed to be joined together, but can be combined vertically fairly simply.

Set of 2 joined enclosures, with meter and 3-phase incoming MCB at the supply end

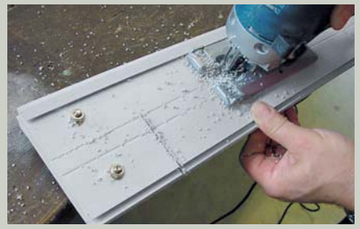
1. Mounting

Mark the cutting limits on the side panels of the enclosures to be joined together, and mark where the 4 holes are to be drilled.

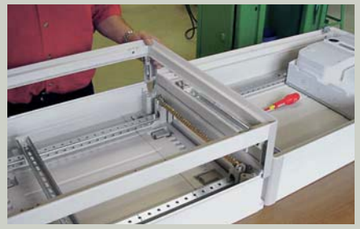
Use the terminal block supports as marking guides

Drill both sides at the same time (Ø 6.5 mm)

Cut the side panels to make the opening for inserting the wiring.



Refit the drilled and cut side panels. Then replace the faceplate support frames

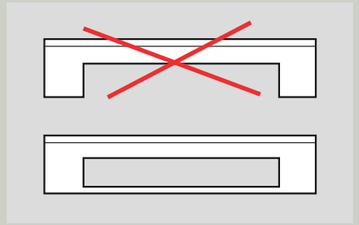


Place the 4 screws and 4 M6 nuts in position, but do not tighten them fully

Position the enclosures on their sides to align them perfectly, then carry out the final tightening

2. Complying with class II

If there are closed knockouts in the side panels, the enclosure is class II. If not, it is essential to create an insulated seal between the backs of the two enclosures.

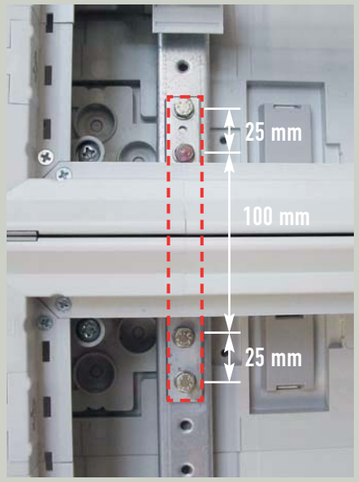


Space to be insulated with a seal on the rear of the enclosures

3. Reinforcing the combination

The joined unit can be reinforced using 2 pieces of flat bar: width 20 mm, length 170 mm.

Eight M6 x 20 screws and 8 washers are required for fitting them on the uprights of the enclosures



Flat bars strengthen the combination, joining the 2 chassis

Metal enclosures

XL³ 160 metal. Fully modular enclosures with dimensions optimised for distribution up to 160 A. They can take the DPX 125 and the Vistop 160 with no need for any accessories.

XL³ 160 has been designed for ease of wiring and connection:
- Side panels can be removed separately
- Removable chassis

XL³ 160 also offers original solutions for holding and running the wiring, a large working area and a high-quality finish.

CHARACTERISTICS

Class I metal enclosure

Short-circuit resistance Ipk: 35 kÂ

IP 30, IP 40 with door and IP 43 with door and seal
IK 07 to IK 08 with door

Conforming to standards IEC 60439-1 and 60439-3

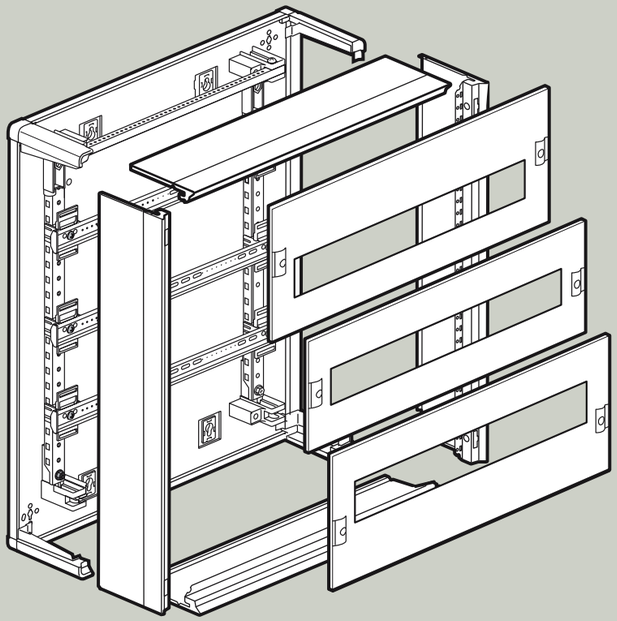
Fireproof according to IEC 60695-2-1-750°C/5 s

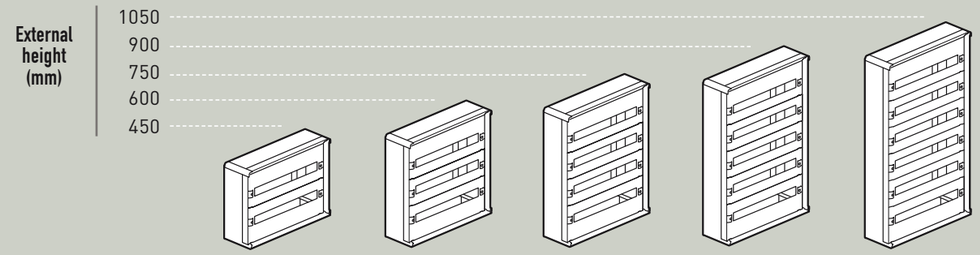
Suitable for installations in public buildings

Can take devices up to 160 A

Colour RAL 7035

Supplied complete with rails, faceplates, adjustable cable entry plate and brass bar for protective conductors.





Cat. No.		200 02	200 03	200 04	200 05	200 06
Modular capacity		2 rows	3 rows	4 rows	5 rows	6 rows
Modules		48	72	96	120	144
Rounded door	solid	202 52	202 53	202 54	202 55	202 56
	glass	202 62	202 63	202 64	202 65	202 66
Flat door	solid	202 72	202 73	202 74	202 75	202 76
	glass	202 82	202 83	202 84	202 85	202 86

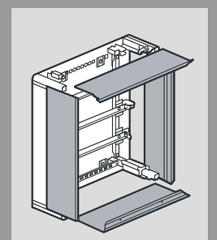
See accessories on page 36

Metal enclosures (continued)

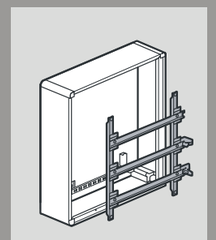
A PREPARING THE ENCLOSURES

XL³ 160 metal enclosures are supplied fitted with rails on removable chassis, faceplates, a cable entry plate and a brass bar for connecting protective conductors. The cardboard packaging can be re-used for delivery to the site.

XL³ 160 offers you two possibilities, to suit your preferred way of working:



Remove the side panels individually



Remove the chassis

1. Wiring at the back of the enclosure

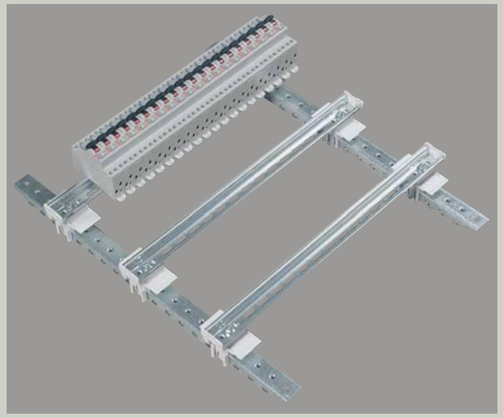
For ease of wiring, it is possible to remove all the side panels.

Remove the 2 front screws for the upper and lower side panels and the 2 side screws for the right and left side panels

2. Wiring on chassis only

The chassis can be removed from the enclosure so that the wiring can be carried out in the workshop while the enclosure may already be installed on site.

With the faceplates removed, the chassis can be removed from the enclosure after unscrewing the 4 retaining screws

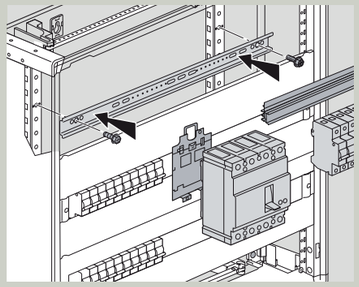


It is very easy to work on the chassis when it is removed from the enclosure

B MOUNTING THE DEVICES

1. Fitting the DPX 125

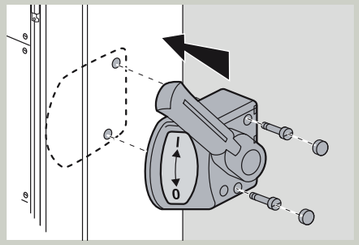
The DPX 125 is incorporated in the enclosures with no need for any additional accessories, apart from plate Cat. No. 262 08 for fixing the device on the ⊔ rail.
A height spacer Cat. No. 262 99 can be mounted on the same rail so that Lexic devices or a modular distribution block can be installed next to the DPX.



The DPX 125 is mounted in a low position on a rail: remove the isolating supports and refit the rail directly on the functional uprights with the two M6 x 10 screws provided

2. Fitting the Vistop 63 to 160 A

Vistops with side handle are supplied with the accessories required for locating the handle on the outside of the enclosure. A template is provided for drilling the side panel.



The handle is mounted directly on the side panel of the enclosures

Metal enclosures (continued)

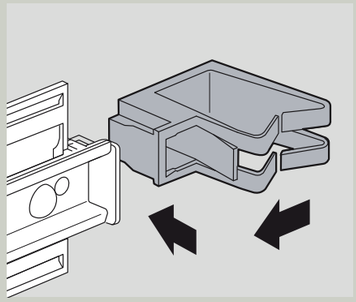
C WIRING AND CONNECTION

1. Wiring

Guide rings

XL³ 160 enclosures can take guide rings Cat. No. 200 93 for vertical wiring. These rings can be mounted on the right or left. They simply clip onto the isolating supports of the rails.

Holding vertical wiring in place



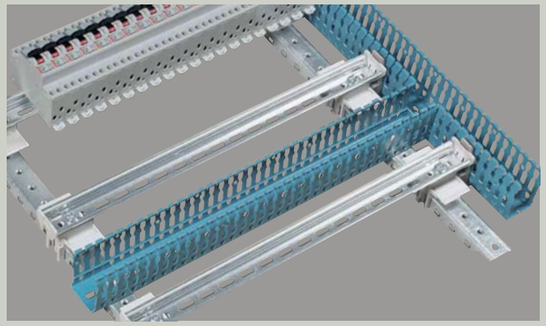
Insert the ring on the side of the support then push it towards the back

XL³ 160 enclosures take guide ring Cat. No. 200 94 for horizontal wiring. These rings fit directly under the rails.

Fitting a guide ring for horizontal wiring

Lina 25™ ducting

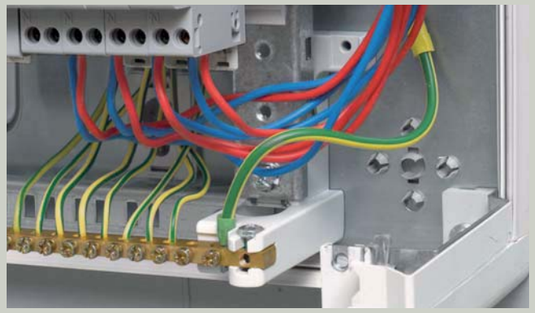
Supports Cat. No. 200 70 are used for installing Lina 25 vertical ducting (40 x 60). The supports clip onto the ⌙⌙ rail supports in the same way as the vertical wiring guide rings. The ducting is fixed using the isolating rivets provided.



XL³ 160 enclosures also take Lina 25 horizontal ducting: use isolating screws Cat. No. 367 74 to fix the ducting directly on the uprights

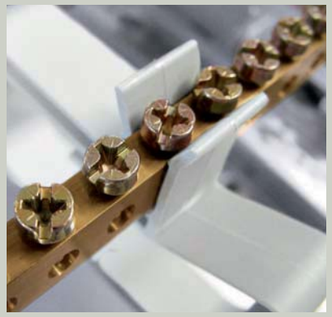
2. Protective conductors

XL³ 160 enclosures are supplied with a brass bar for protective conductors with 2 x 35 mm² holes and 36 x 10 mm² holes. As the enclosure is reversible, the bar can be placed at the top or the bottom.



The bar for protective conductors is connected to the metal back of the enclosure by a conductor supplied with the enclosure

A second bar Cat. No. 373 00 can be installed either on the integrated supports, or on the guide rings Cat. No. 200 94

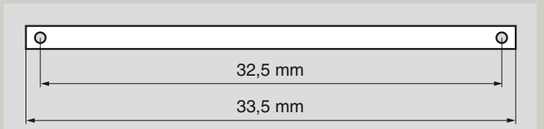


Guide rings Cat. No. 200 94 enable an additional brass bar Cat. No. 373 00 to be installed between the rows

It is also possible to use IP 2x terminal blocks for protective conductors (see below).

3. IP 2x distribution terminal blocks

XL³ 160 metal enclosures can take 1 or 2 flat bars 12 x 2 Cat. No. 048 19 for IP 2x terminal blocks.



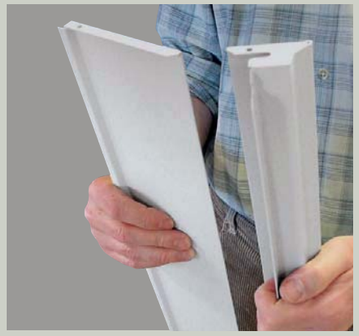
Cut and drill bar Cat. No. 048 19

Fix the bar on the plastic supports integrated at the back of the enclosure

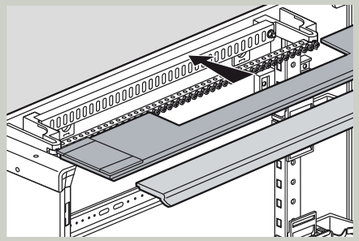
Metal enclosures (continued)

4. Inserting and fixing cables

The adjustable cable entry plate supplied with the metal enclosures is mounted after one of the upper or lower side panels has been cut.



Break the metal side panel along the pre-cut line



Insert the plate in the corner runners then re-fit the front part of the metal side panel

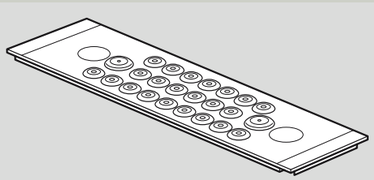
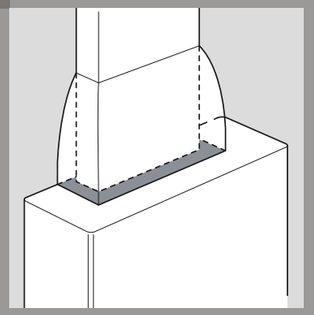
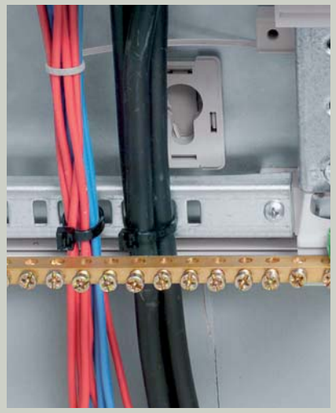


Plate Cat. No. 200 21 with knockout cable entries (22 x Ø 20 mm entries and 2 xØ 32 mm entries) is fitted in the same way



The DLP/enclosure joining strip Cat. No. 201 60 improves the finish and increases the cable spreading volume

The metal enclosures can take, at the top and the bottom, the special cable fixing support Cat. No. 200 35.



Anchoring the cables on support Cat. No. 200 35 using Colson clamps

D INSTALLATION AND FINISHES

1. Fixing the enclosures

Internal fixings

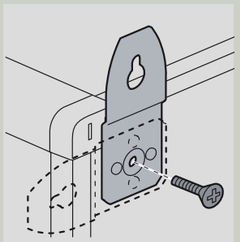
Each enclosure has 4 internal fixing points. Knock out the keyhole shaped holes. Fit the enclosure using four Ø 6 mm screws and washers.

The keyhole shaped openings are used to attach and detach the enclosures

External fixings

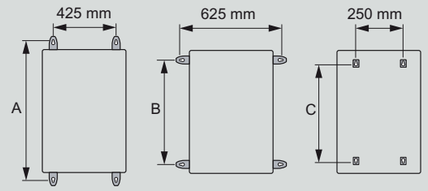
Wall-mounting lugs Cat. No. 201 00 can be installed in horizontal or vertical position.

Fitting the clip-nut



Screw on the lug in the required position

Internal and external fixing centres



Enclosure	A (mm)	B (mm)	C (mm)
200 02	500	305	343
200 03	650	455	493
200 04	800	605	643
200 05	950	755	793
200 06	1100	905	943

Metal enclosures (continued)

2. Faceplates and marking

The faceplates are locked using a sealable ¼ turn fastening. The equipotential link with the enclosure is obtained automatically by the ¼ turn locking rotary slider.

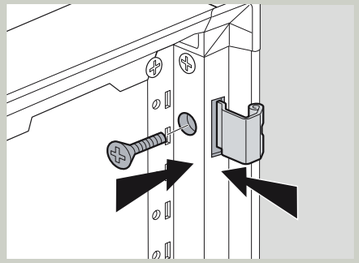
Rotary slider

Sealing the faceplate

As well as the label-holders on all Lexic devices, a self-adhesive marking strip Cat. No. 203 99 for 24-module faceplates is available as an accessory

3. Fitting the doors

The doors can be fitted to open to the left or the right. Locations for the hinges and the door release are provided on both sides of the enclosure.



Insert and fix the hinges in the slots on the side panels

The door release is fitted on the opposite side using 2 screws

When fitting the handle, it is essential to fit the metal bracket so that the door locks correctly

Rounded doors leave a 53 mm (glass) or 57 mm (metal) space in front of the faceplates and can therefore be used with Vistops with front handle. Solid rounded doors can take Signis control and signalling units and also allow the installation of a remote front handle for Vistops.

Signis devices and front handle on door

4. Achieving IP 43

IP 43 is achieved by fitting seal Cat. No. 201 30 around the door.

The seal must be fitted in the bottom of the door

5. Door equipotential link

The doors are equipped with studs for connecting the equipotential link conductor Cat. No. 373 85 when control and signalling units with voltage U > 50 V are fitted.

Make a notch in the plastic cover for the conductor to pass behind the hinge

Conductor Cat. No. 373 85 is clipped directly onto the faceplate support inside the enclosure

When the plastic cover is removed, up to 4 conductors can be inserted in the enclosure

Flush-mounting enclosures

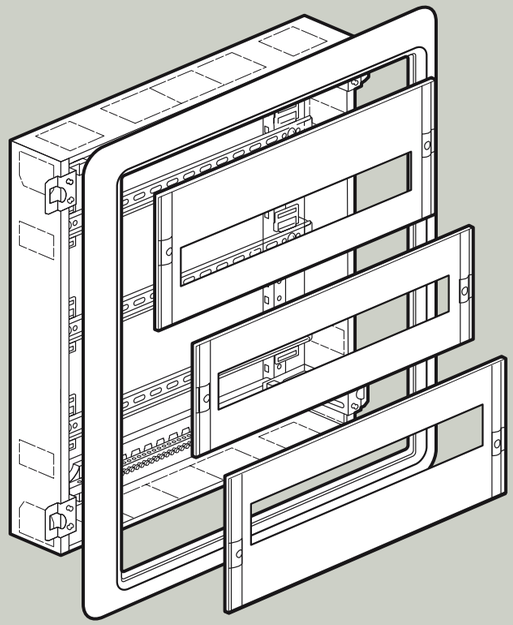
XL³ 160 flush-mounting enclosures with dimensions optimised for distribution up to 160 A.

These enclosures are divided into :
- "Fully modular" enclosures with 3 to 6 rows. These can take the DPX 125 with no need for any accessories
- Enclosures with dedicated space and 3 or 4 modular rows, for integrating the French tariff kit Cat. No. 202 30 and the DPX 160

XL³ 160 has been designed for ease of wiring and connection:
- Removable chassis
- Removable insulated finishing frame
- Adjustable flush-mounting box for the insertion of cables.
XL³ 160 also offers original solutions for holding and running the wiring, a large working area and a high-quality finish.

CHARACTERISTICS

IP 30, IP 40 with door
IK 04, IK 08 with door
Conforming to standards IEC 60439-1 and 60439-3
Fireproof according to IEC 60695-2-1-750°C/5s
Suitable for installations in public buildings
Can take devices up to 160 A
Colour RAL 7035
Supplied complete with rails, faceplates and brass bar for protective conductors



		"Fully modular" enclosures				Enclosures with dedicated space for DPX 160 or French tariff	
External height (mm)		1050 / 900 / 750 / 600					
Cat. No.		**200 13**	**200 14**	**200 15**	**200 16**	**200 25**	**200 26**
Modular capacity		3 rows	4 rows	5 rows	6 rows	3 rows	4 rows
Modules		72	96	120	144	72	96
Flat door	solid	202 73	202 74	202 75	202 76	202 75	202 76
	glass	202 83	202 84	202 85	202 86	202 85	202 86

See accessories on page 36

Flush-mounting enclosures (continued)

A PREPARING THE ENCLOSURES

XL³ 160 flush-mounting enclosures are supplied ready-assembled. They consist of a metal flush-mounting box, a removable chassis equipped with ⌴ rails, a faceplate support finishing frame and insulated faceplates.

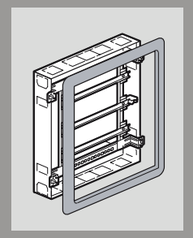
1. Wiring at the back of the enclosure

Removing the finishing frame provides a wide access area for wiring at the back of the enclosure.

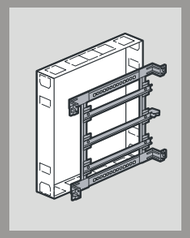
Remove the top and bottom faceplates to access the 4 faceplate support finishing frame retaining screws

+

XL³ 160 offers you two possibilities, to suit your preferred way of working:



Remove the faceplate support finishing frame



Remove the chassis

2. Remove the chassis

The chassis can be removed from the enclosure so that the wiring can be carried out in the workshop while the flush-mounting box may already be installed on site.

The 4 chassis retaining screws can be accessed when the finishing frame has been removed

B FLUSH MOUNTING

1. Fixing in a masonry wall

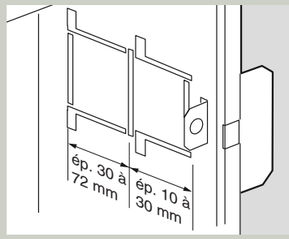
The hole in the wall must be at least 100 mm deep and be wide enough to allow the masonry anchors to be inserted. Enclosures can be fixed using plaster, adhesive mortar or cement, as required.

Pull up the masonry anchors

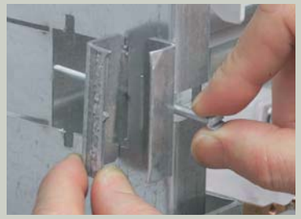
Open up the cable feedthroughs: wide pre-cut sections make this work easier

2. Mounting in a hollow partition

Installation in a hollow partition requires fixing accessory Cat. No. 200 10.

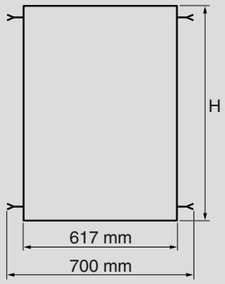


Cut out the holes for the mounting lugs according to the thickness of the wall



After cutting out the cable feedthroughs and placing the enclosure in position, place the mounting lugs in position and tighten them

Minimum flush-mounting dimensions



Enclosure	H (mm)
200 13	640
200 14	790
200 15/25	940
200 16/26	1090

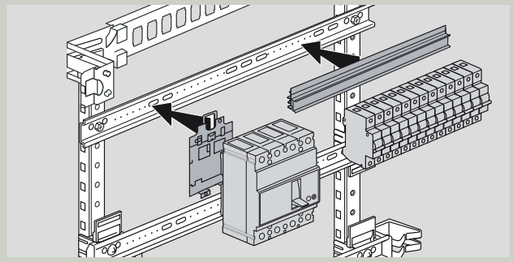
Flush-mounting enclosures (continued)

C MOUNTING THE DEVICES

1. Fitting DPX units

DPX 125

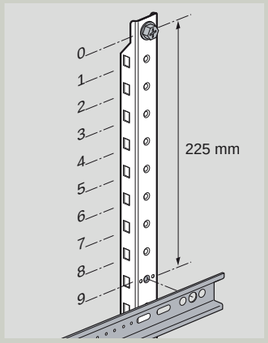
The DPX 125 is incorporated in the enclosures with no need for any additional accessories, apart from plate Cat. No. 262 08 for fixing the device on the ⊔ rail. A height spacer Cat. No. 262 99 can be mounted on the same rail so that modular devices or a modular distribution block can be installed next to the DPX.



The DPX 125 is mounted in a low position on a rail: remove the isolating supports and refit the rail directly on the functional uprights with the two M6 x 10 screws provided

DPX 160

The DPX 160 can be incorporated in enclosures Cat. Nos 200 95/96 which have a dedicated 400 mm space, which is large enough for connecting the device. It is mounted on ⊔ rail Cat. No. 200 00 using plate Cat. No. 262 09. A 300 mm faceplate Cat. No. 203 60 is used for the DPX 160 itself, and a 100 mm solid faceplate Cat. No. 203 91 for ease of spreading the cables. In the same way as for the DPX 125, modular devices can be added to the rail.

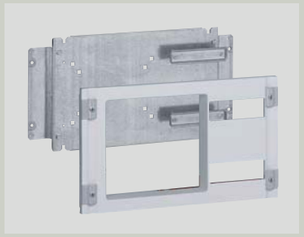


Install rail Cat. No. 200 00 225 mm from the chassis attachment point (9th hole)

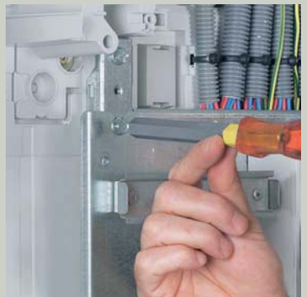
The enclosures are reversible. They can be turned upside down if the main device has to be mounted at the bottom of the panel.

2. Fitting French electricity tariff kits

Enclosures with dedicated space, Cat. Nos 200 95 and 200 96, can take the French electricity tariff connection kit Cat. No. 202 30. This kit has two 2 x 8 module ⊔ rails to optimise the space when installing modular devices next to the incoming MCB.



Kit Cat. No. 202 30 for subscriber MCB only (single phase 90 A or 3-phase 60 A) with plates Cat. Nos 011 91 / 92, or MCB + single phase meter with plates Cat. Nos 011 81 / 82



The plate in kit Cat. No. 202 30 fixes directly onto the uprights (4th and 14th holes)

WIRING AND CONNECTION

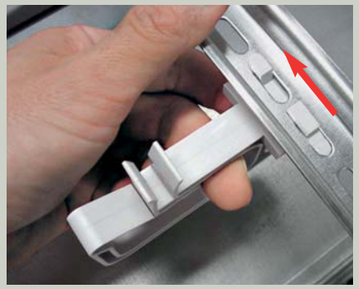
1. Wiring

Guide rings

XL³ 160 enclosures can take guide rings Cat. No. 200 93 for vertical wiring. These rings can be mounted on the right or left. They simply clip onto the ⊔ rail supports.

Holding vertical wiring in place

XL³ 160 enclosures take guide ring Cat. No. 200 94 for horizontal wiring. These rings fit directly under the rails.



Fitting a guide ring for horizontal wiring

Lina 25™ ducting

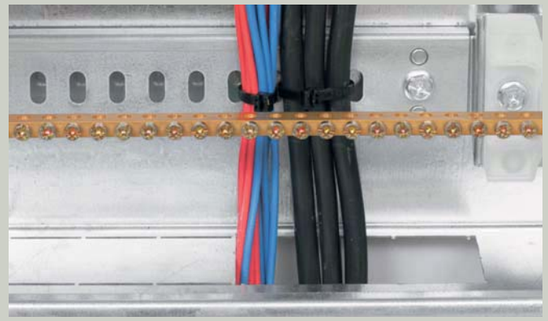
Supports Cat. No. 200 70 are used for installing Lina 25 vertical ducting (40 x 60).

The supports for Lina 25 ducting clip on in the same way as the vertical wiring guide rings.

XL³ 160 enclosures also take Lina 25 horizontal ducting: use isolating screws Cat. No. 367 74 to fix the ducting directly on the uprights

2. Fixing the cables

Flush-mounting enclosures are equipped with a special support at the top and bottom for fixing cables.

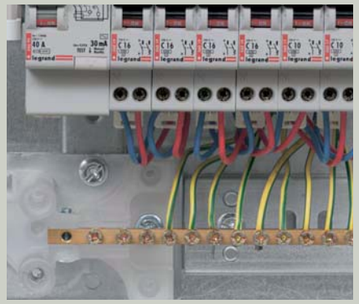


Anchoring the cables using Colson clamps

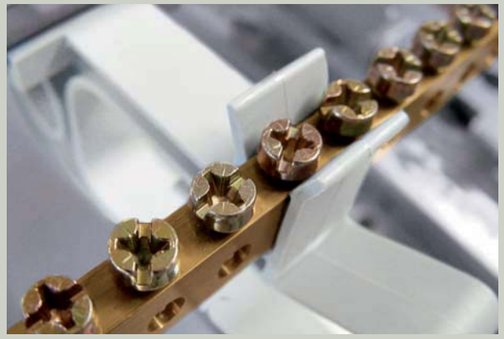
Flush-mounting enclosures (continued)

2. Protective conductors

XL³ 160 enclosures are supplied with a terminal block for protective conductors consisting of a brass bar with 2 x 35 mm² terminals and 36 x 10 mm² terminals. It can be installed at the top or the bottom on the supports integrated at the back of the enclosures.



Terminal block for protective conductors pre-installed in XL³ 160 enclosures

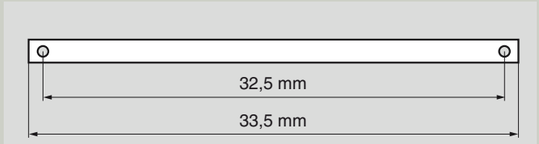


Horizontal wiring guide rings Cat. No. 200 94 enable an additional brass bar Cat. No. 373 00 to be installed between the rows

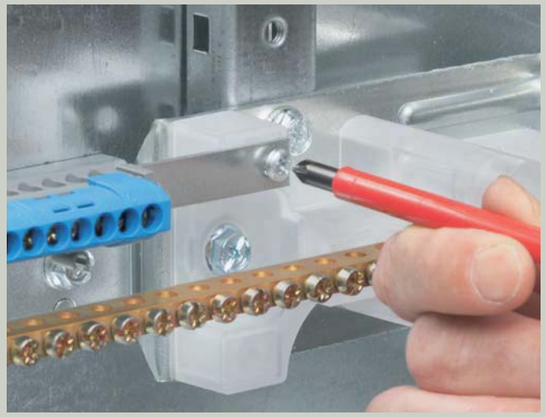
It is also possible to use IP 2x terminal blocks for protective conductors (see below).

3. IP 2x distribution terminal blocks

XL³ 160 flush-mounting enclosures can take flat bars 12 x 2 Cat. No. 048 19 for IP 2x terminal blocks.



Cutting out and drilling bars Cat. No. 048 19 to create a horizontal terminal block



The support integrated at the back of the enclosure is used to fix the bars both horizontally and vertically

D FINISHES

1. Faceplates and marking

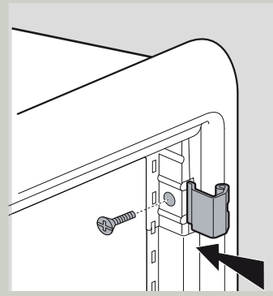
The faceplate support finishing frame ensures a perfect finish

The faceplates are locked using a ¼ turn fastening. Their shape makes them easy to handle

Sealing the faceplate

3. Fitting the doors

The doors can be fitted to open to the left or the right. Locations for the hinges and the door release are provided on both sides of the enclosure.



Remove the blanking plates then fit the hinges on the frame

The door release is fitted on the opposite side using 2 screws

When fitting the handle, it is essential to fit the metal bracket so that the door locks correctly

Distribution

SUPPLY BUSBARS, TERMINAL BLOCKS, DISTRIBUTION TERMINALS AND MODULAR DISTRIBUTION BLOCKS

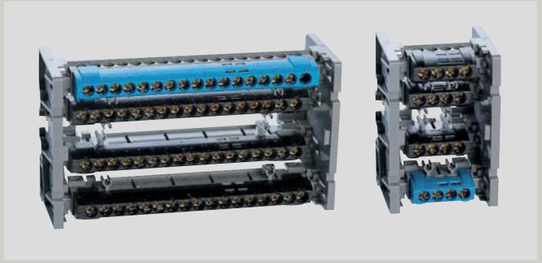
The Legrand distribution blocks for use in XL³ 160 enclosures meet the needs of a wide range of requirements, providing ease of use and maximum safety.

1. Lexic supply busbars

1, 2, 3 or 4-pole supply busbars can be connected directly and supply power to Lexic modular devices up to 90 A. They are a flexible solution, take up little space and are easy to adapt for distribution in rows. Lexic auto devices are used to connect supply busbars with no need for any tools (see opposite).

2. Distribution terminal blocks

Totally universal in their application, this type of terminal block can be used to distribute up to 100 A on between 4 and 33 outputs, depending on the catalogue number. The incoming cross-section is between 4 and 25 mm², and that of the outputs between 4 and 16 mm². These terminal blocks are fixed on a flat 12 x 2 bar or on a ⊔ rail.



By combining IP 2x terminal blocks with a support Cat. No. 048 10, you can create a 2P, 3P or 4P distribution block

3. Distribution terminals

These single pole distribution blocks are fixed directly in the terminals of DPX 125 and 160 devices and modular Vistop devices from 63 to 160 A. They are used for direct, simplified distribution for panels where the number of main circuits is limited.

6 x 35 mm² rigid outputs (25 mm² flexible) for distribution terminal Cat. No. 048 67

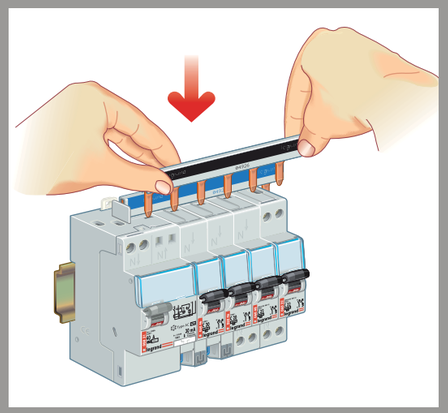
4. Modular distribution blocks

These combine compactness and high connection capacity. They clip onto the ⊔ rails. Legrand modular distribution blocks are totally isolated: they are used at the supply end of the panel up to 250 A or in subgroups of outputs in panels with a higher power rating.

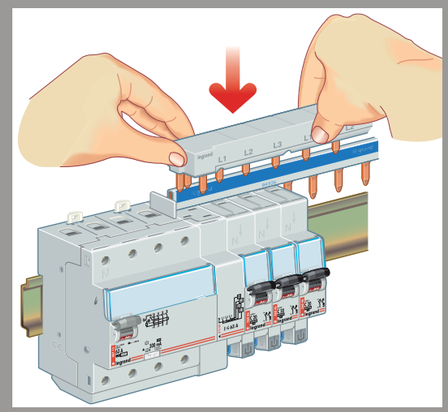
Modular single-pole distribution blocks: total isolation of poles in order to distribute between 125 and 250 A

Modular distribution blocks can take an additional IP 2x terminal block

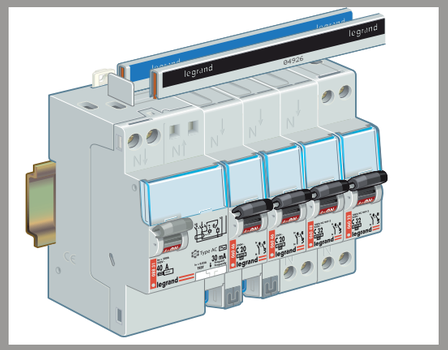
Distribution in rows using Lexic auto supply busbars: automatic connection of the single phase and 3-phase supply busbars with no screws, up to 63 A



Single phase power supply to a row using the phase/neutral reversible universal supply busbar



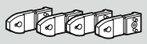
3-phase power supply to a row using the "three prong" type supply busbar



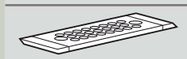
It is possible to mix screw connection and automatic terminal connection MCBs on the same row.

Appendices

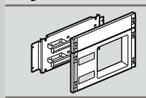
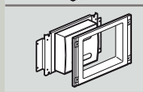
A ACCESSORIES

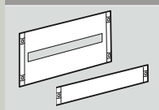
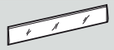
Fixing accessories		insulated	metal	flush mounting
	Wall mounting lugs	201 50	201 00	
	Fixing accessories for hollow partition			200 10

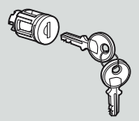
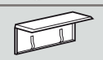
Terminal blocks		insulated	metal	flush mounting
	Supports for 12 x 2 flat bar	200 50		
	12 x 2 flat bar for IP 2x terminal block (1 m)	048 19	048 19	048 19
	Additional brass bar	373 00	373 00	373 00

Accessories for cable insertion		insulated	metal	flush mounting
	Adjustable cable entry plates		200 20	
	Plate with knockout cable entries	200 71	200 21	
	Cable fixing support		200 35	

Wiring accessories		insulated	metal	flush mounting
	Guide ring for vertical wiring	200 94	200 94	200 94
	Guide ring for horizontal wiring	200 93	200 93	200 93
	Support for Lina 25 ducting	200 70	200 70	200 70
	DLP finishing strip	201 60	201 60	

Equipment		insulated	metal	flush mounting
	Universal rail	200 00	200 00	200 00
	Rail height spacer	262 99	262 99	262 99
	French tariff kit for connection plates Cat. Nos 011 81/82/91/92	202 30		202 30
	French tariff kit for MCB + 3-phase meter	202 31		

Faceplates		insulated	metal	flush mounting
	Insulated faceplate for DPX 160 - H: 300 mm	203 60		
	Solid insulated faceplate H: 100 mm	203 91		
	24-module smooth adjustable blanking plate	200 51	200 51	200 51
	18-module blanking plate, separable by 1/2 module	016 65	016 65	016 65
	24-module adhesive label holder	203 99	203 99	203 99

Accessories for doors		insulated	metal	flush mounting
	Key barrels type 405	202 91	202 91	202 91
	Key barrels type 455	202 92	202 92	202 92
	Key barrels type 1242 E	202 93	202 93	202 93
	Key barrels type 2433 A	202 94	202 94	202 94
	Seal for IP 43 protection	201 30	201 30	201 30
	A4 flexible document holder	097 99	097 99	097 99
	Closed rigid document holder	365 82	365 82	365 82

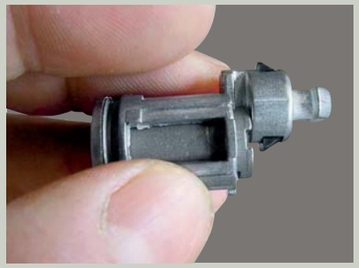
Appendices

B FITTING THE KEY BARRELS

The method differs according to the type of handle used.

Large handle (enclosures H = 1,500 mm)

Push in the 2 black clips to remove the blanking plate

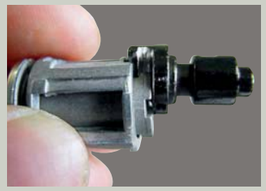


Combine the adaptor casing and barrel assembly with the aluminium coloured adaptor

Insert the assembled barrel in the body of the handle

Small handle (enclosures H < 1,500 mm)

Once the handle has been dismantled (M6 screw) the blanking plate is automatically released.



Combine the adaptor casing and barrel assembly with the black adaptor

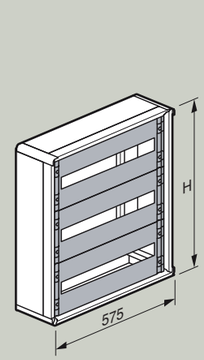
Insert the pin in the notch towards the front

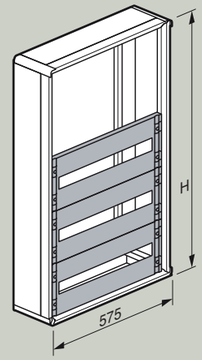
Insert the assembled barrel in the body of the handle

Refit the handle on its support

C DIMENSIONS

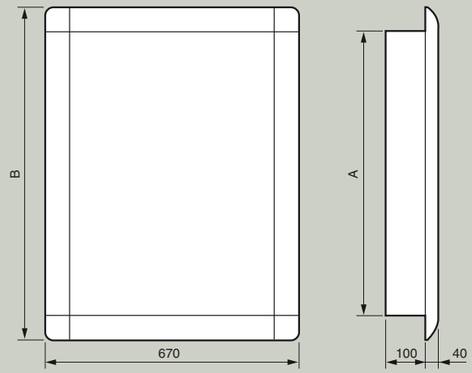
1. Insulated and metal enclosures



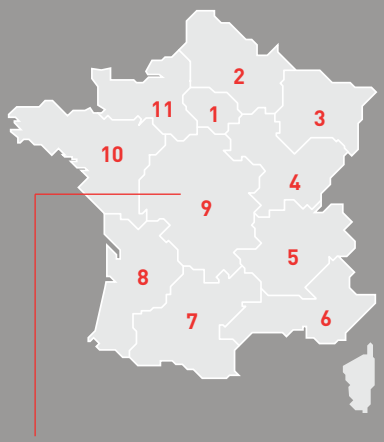


Wall-mounting enclosures insulated	metal	H (mm)
200 52	200 02	450
200 53	200 03	600
200 54	200 04	750
200 55 / 95	200 05	900
200 56 / 96	200 06	1050

2. Flush-mounting enclosures



Flush-mounting enclosures	A (mm)	B (mm)
200 13	640	695
200 14	790	845
200 15 / 25	940	995
200 16 / 26	1090	1145



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N°Azur Fax : 0 810 48 00 00
Prix appel local

Du lundi au vendredi de 8h à 18h.
Le samedi de 8h à 13h

EX 25041

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