

Flush-mounting cabinet XL³ HP 160

Cat.Nos: 1CO2R24IPL - 1CO3R24IPL - 1CO4R24IPL - 1CO5R24IPL
1CO6R24IPL - 1CO7R24IPL - 1CO8R24IPL
1CO3ER24IPL - 1CO4ER24IPL - 1CO5ER24IPL - 1CO6ER24IPL



1. GENERAL CHARACTERISTICS

XL³ HP 160 cabinets allow energy distribution up to 160 A. Designed with insulating material and a metal flush-mounting box, the enclosures are delivered fully assembled, equipped with:

- Frame and insulating faceplate with 1/4 turn lock,
- Removable chassis supplied with mounted rails and vertical wiring circulation strap (1 per row),
- Brass bar for protective conductors (36 holes).

Available in versions from 2 to 8 rows of 24 modules or 3 to 6 rows with a 300 mm empty space, allowing installation of limited power connection kits (single/three-phase) Cat.No 1KTb424 or vertical mounting of a DPX³160.

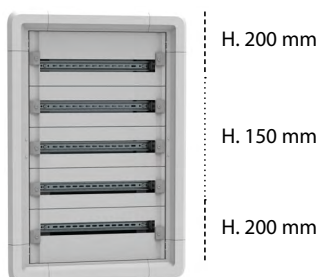
Can be fitted with flat metal doors, flat glass doors, or curved metal doors. Can be installed in dry partitions or masonry.

Suitable for commercial and residential installations.

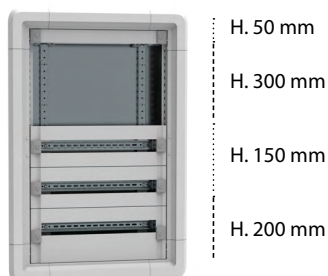
2. DIMENSIONS

■ 2.1 Faceplates details

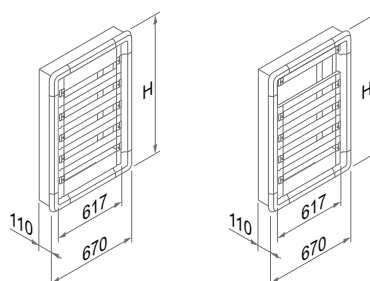
- Pre-equipped cabinets : top and bottom faceplates height 200 mm, intermediate faceplates height 150 mm.



- Pre-equipped cabinets with empty space : top faceplate height 50 mm, free space height 300 mm, bottom faceplate height 200mm and intermediate faceplates height 150 mm.



■ 2.2 Cabinets dimensions and weights



Cat.Nos	Front panel		Box		Weight (kg)
	Height (mm)	Width (mm)	Height (mm)	Width (mm)	
Pre-equipped cabinets					
1CO2R24IPL	545	670	490	617	9.66
1CO3R24IPL	695	670	640	617	11.47
1CO4R24IPL	845	670	790	617	13.26
1CO5R24IPL	995	670	940	617	15.08
1CO6R24IPL	1145	670	1090	617	17.62
1CO7R24IPL	1295	670	1240	617	18.59
1CO8R24IPL	1445	670	1390	617	20.40
Pre-equipped cabinets with empty space					
1CO3ER24IPL	995	670	940	617	15.08
1CO4ER24IPL	1145	670	1090	617	16.77
1CO5ER24IPL	1295	670	1240	617	18.59
1CO6ER24IPL	1445	670	1390	617	20.40

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2. DIMENSIONS (continued)

2.3 Doors

Doors are supplied with a 1/4 turn handle to be mounted, with shutter. Handles can be fitted with interchangeable barrels (to be ordered separately).

Flat metal door



Flat glass door



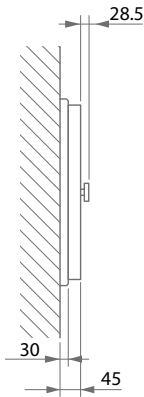
Curved metal door



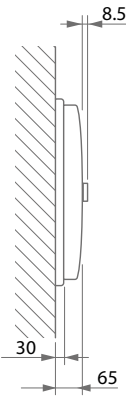
Distance between faceplate / flat metal door: 38 mm
Distance between faceplate / flat glass door: 34 mm
Distance between faceplate / curved metal door: 57 mm

2.4 Cabinets dimensions with door and handle

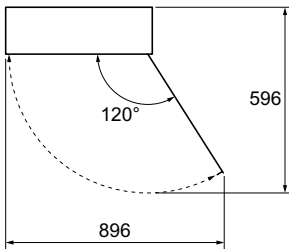
Flat door



Curved door



Door opening

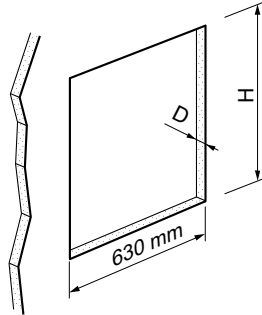


2.5 Flush-mounting dimensions

Minimum depth for flush-mounting: 110 mm

In dry partitions

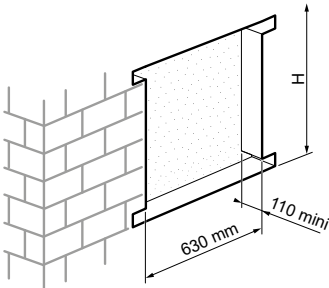
For flush-mounting in dry partitions, use kit Cat.No. 1KCE



D : wall depth between 10 and 72 mm

Cat.Nos	H (mm)
1CO2R24IPL	500
1CO3R24IPL	650
1CO4R24IPL	800
1CO5R24IPL 1CO3ER24IPL	950
1CO6R24IPL 1CO4ER24IPL	1100
1CO7R24IPL 1CO5ER24IPL	1250
1CO8R24IPL 1CO6ER24IPL	1400

In masonry



Cat.Nos	H (mm)
1CO2R24IPL	500
1CO3R24IPL	650
1CO4R24IPL	800
1CO5R24IPL 1CO3ER24IPL	950
1CO6R24IPL 1CO4ER24IPL	1100
1CO7R24IPL 1CO5ER24IPL	1250
1CO8R24IPL 1CO6ER24IPL	1400

3. TECHNICAL CHARACTERISTICS

3.1 Protection Index

IP 30 with faceplate and without door, IP 40 with door
IK 04 without door, IK 08 with door

3.2 Material characteristics

Color: Grey RAL 7035
Flush-mounting box: metal th. 10/10 mm
Frame: PVC, th. 2 mm
Faceplate: impact-resistant polystyrene, th. 3 mm
Metal door flat/curved th. 12/10 mm
Glass door th. 4 mm tempered glass and th. 12/10 mm metal frame

Halogen-free
Self-extinguishing: 750°C

3.3 Electrical characteristics

Rated operational voltage (Ue): 415 V AC - 50/60 Hz
Rated insulation voltage (Ui): 690 V AC - 50/60 Hz
Rated impulse withstand voltage (Uimp): up to 8 kV
Short-circuit current (Icc): 25 kA
Rated current (In): 160 A

3. TECHNICAL CHARACTERISTICS (continued)

■ 3.3 Electrical characteristics (continued)

Thermal dissipation table with a maximum admissible current of 160 A with Delta T 30 K.

Configuration: The rear surface is in contact with a wall, flush-mounted

Determination by testing of the maximum heat dissipation capacity of an enclosure according to IEC 61439-1 (section 10.10.4).

Determination by testing of the maximum heat dissipation capacity of an enclosure according to IEC 62208-1.

Cat.Nos	Thermal Dissipation Power(W)	
	IP30	IP40
Pre-equipped cabinets		
1CO2R24IPL	72	58
1CO3R24IPL	88	72
1CO4R24IPL	103	84
1CO5R24IPL	118	97
1CO6R24IPL	136	112
1CO7R24IPL	151	124
1CO8R24IPL	160	132
Pre-equipped cabinets with empty space		
1CO3ER24IPL	118	97
1CO4ER24IPL	136	112
1CO5ER24IPL	151	124
1CO6ER24IPL	160	132

■ 3.4 Mechanical characteristics

Permissible load: 40 N per row

■ 3.5 Climatic characteristics

Storage and installation temperature: - 10°C to + 70°C

Operating temperature: - 5°C to + 40° C

Must be installed under shelter

Corrosion resistance per IEC 61439

4. MAINTENANCE

Caution: For specific cleaning products, prior testing is required.

Surface cleaning with cloth.

Resistant to: hexane, methylated spirits, soapy water, diluted ammonia, 10% diluted bleach, glass cleaner, pre-impregnated wipes.

5. STANDARDS AND REGULATIONS

Compliant with NF EN / IEC 61439-2 and -3

RoHS

Absence, beyond the admitted thresholds, of substances prohibited by the 2011/65/EU Directive (RoHS), and modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

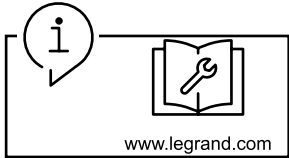
REACH

The substances identified as SVHC (Substances of Very High Concern) according to the REACH Regulation (1907/2006), if present in the products at a concentration above 0.1% weight by weight, are declared inside the European SCIP database. At the date of publication of this document none of the substance listed in the annex XIV is found in this product.

Packaging

Design and manufacture of packaging compliant with European Directive 94/62/CE

6. OTHER INFORMATION



Instruction sheet: detailed mounting procedures, available on e-catalog

Workshop book: mounting information, equipment, accessories and other information available on e-catalog

PEP: available on e-catalog

XLPro4 Calcul : Calculation notes creation software, addressed to installers, design office and maintenance operators. Definition of the electrical characteristics of a low voltage installation in compliance with the applicable standards.

XLPro4 Panels: Distribution panel design software, addressed to panelbuilders and electrical panel designers. Design of the electrical distribution of the panel, production of electrical diagrams, establishment of products and overall costing of the project.