

Insulating distribution cabinet XL³ HP 160

Cat. Nos: 1CO2R24SPL - 1CO3R24SPL - 1CO4R24SPL
1CO5R24SPL - 1CO6R24SPL - 1CO7R24SPL - 1CO8R24SPL
1CO3ER24SPL - 1CO4ER24SPL - 1CO5ER24SPL - 1CO6ER24SPL



1. GENERAL CHARACTERISTICS

XL³ HP 160 cabinets allow energy distribution up to 160A. Made of insulating material, they are delivered ready to install, equipped with:

- insulating faceplates with 1/4 turn lock
- Removable chassis supplied with mounted rails and vertical wiring circulation strap (1 per row)
- Automatic connection earth terminal block.

Available in versions from 2 to 8 rows of 24 modules or 3 to 6 rows with a 400 mm empty space, allowing installation of:

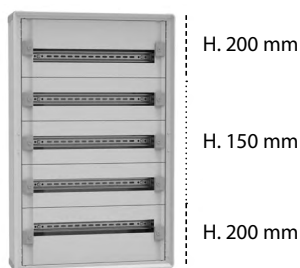
- Limited power connection kits (single/three-phase) Cat.No 1KTB424 or three-phase Cat.No 1KTB324, or
- Monitored power connection kits (Cat.No 1KTJ24), also used for vertical mounting of a DPX³160.

Can be fitted with flat metal doors, flat glass doors, or curved metal doors. Suitable for commercial and residential installations.

2. DIMENSIONS

2.1 Faceplates details

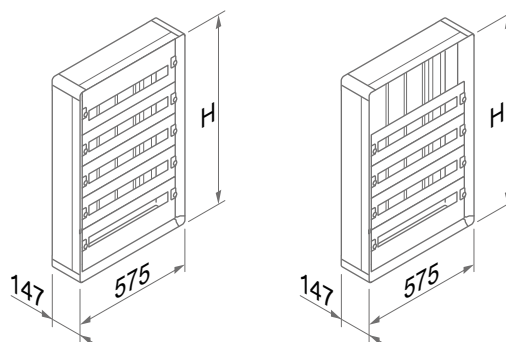
- Pre-equipped cabinets : top and bottom faceplates height 200 mm, intermediate faceplates height 150 mm.



- Pre-equipped cabinets with empty space : free space height 400 mm and faceplates height 150 mm



2.2 Cabinets dimensions and weights



Cat.Nos	Height (mm)	Usable height (mm)	Usable width (mm)	Usable depth under faceplate (mm)	Weight (kg)
Pre-equipped cabinets					
1CO2R24SPL	450	400	575	90,7	7,6
1CO3R24SPL	600	550	575	90,7	9,3
1CO4R24SPL	750	700	575	90,7	11,2
1CO5R24SPL	900	850	575	90,7	13,1
1CO6R24SPL	1050	1000	575	90,7	15,3
1CO7R24SPL	1200	1150	575	90,7	17,95
1CO8R24SPL	1350	1300	575	90,7	18,42
Pre-equipped cabinets with empty space					
1CO3ER24SPL	900	850	575	90,7	11,2
1CO4ER24SPL	1050	1000	575	90,7	13,15
1CO5ER24SPL	1200	1150	575	90,7	14,86
1CO6ER24SPL	1350	1300	575	90,7	16,8

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2. DIMENSIONS (continued)

2.3 Doors

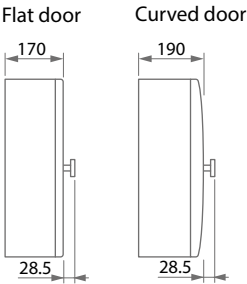
Doors are supplied with a 1/4 turn handle to be mounted, with shutter. Handles can be fitted with interchangeable barrels (to be ordered separately).

Flat metal door Flat glass door Curved metal door

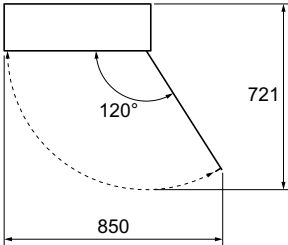


Distance between faceplate / flat metal door: 38 mm
Distance between faceplate / flat glass door: 34 mm
Distance between faceplate / curved metal door: 57 mm

2.4 Cabinets dimensions with door and handle



Door opening



3. TECHNICAL CHARACTERISTICS

3.1 Protection Index

IP 30 with faceplate and without door, IP 40 with door and IP 43 with door and gasket
IK 04 without door, IK 08 with door
Class II

3.2 Material characteristics

Color: Grey RAL 7035
Plastic Material
Rear panel: polystyrene, th. 2 mm
Side panels: PVC, th. 2 mm
Top and bottom panels: impact-resistant polystyrene, 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

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, all other surfaces are free.

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	IP43
Pre-equipped cabinets			
1CO2R24SPL	86	71	65
1CO3R24SPL	99	81	74
1CO4R24SPL	110	90	83
1CO5R24SPL	126	103	95
1CO6R24SPL	145	119	109
1CO7R24SPL	157	128	118
1CO8R24SPL	171	140	129
Pre-equipped cabinets with empty space			
1CO3ER24SPL	126	103	95
1CO4ER24SPL	145	119	109
1CO5ER24SPL	157	128	118
1CO6ER24SPL	171	140	129

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

Allow the construction of assemblies protected by total insulation (equivalent to Class II devices) in accordance 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.

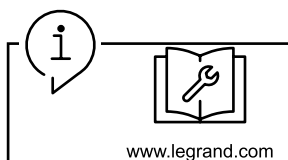
REACH

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.