128, av. du Maréchal-de-Lattre-de-Tassigny - 87045 LIMOGES Cedex
Tél. : 33(0)5 55 06 87 87
www.legrand.com

Metal distribution cabinet XL³ HP 160

Cat. Nos: 1CO2R24S/3R24S/4R24S/5R24S/6R24S/7R24S/8R24S 1CO6E24S/7E24S/8E24S - 1CO6E36S/7E36S/8E36S 1CO6RVI/7RVI/8RVI

1. GENERAL CHARACTERISTICS

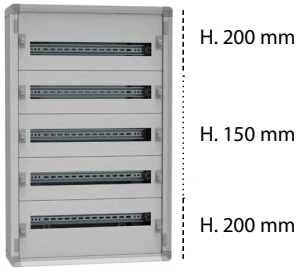
XL³ HP 160 cabinets allow energy distribution up to 160A.
Made of metal, they are supplied:
- Pre-equipped: removable chassis supplied with mounted rails and vertical wiring circulation strap (1 per row), brass bar for protective conductors, metal faceplates with 1/4 turn lock ;
- to be equipped: with functional uprights for rail mounting and brass bar support ;
- external cable sleeve: with 2 cut-out side panels for coupling with an XL³ HP 160 metal cabinet pre-equipped or to be equipped version (6/7/8 rows), 3 perforated metal supports for terminal blocks and earth bar, and 3 inclined 45° supports to be mounted.

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

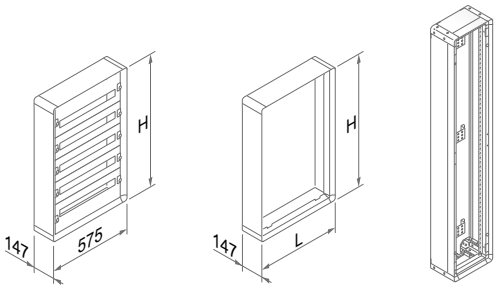
2. DIMENSIONS

■ 2.1 Faceplates details

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



■ 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					
1CO2R24S	450	400	575	126	10.9
1CO3R24S	600	550			13.4
1CO4R24S	750	700			16.3
1CO5R24S	900	850			19.0
1CO6R24S	1050	1000			21.6
1CO7R24S	1200	1150			24.5
1CO8R24S	1350	1300			27.2
To be equipped cabinets					
1CO6E24S	1050	1000	575	126	14.4
1CO6E36S	1050	1000	800		17.0
1CO7E24S	1200	1150	575		16.1
1CO7E36S	1200	1150	800		19.0
1CO8E24S	1350	1300	575		17.7
1CO8E36S	1350	1300	800		20.8
External cable sleeve Cat.Nos					
1CO6RVI	1050	1000	250	126	6.6
1CO7RVI	1200	1150			7.4
1CO8RVI	1350	1300			8.2

2. DIMENSIONS *(continued)*

■ 2.3 Doors

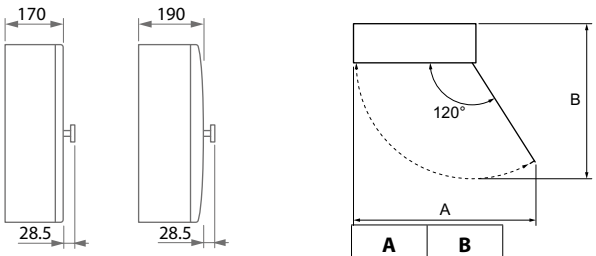
Doors are supplied with a 1/4 turn handle to be mounted, with shutter. Handles can be fitted with interchangeable barrels (to be ordered separately).

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



	A (mm)	B (mm)
24 modules	850	721
36 modules	1185	936
External cable sleeve	362	395

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 07 without door, IK 08 with door

■ 3.2 Material characteristics

Color: Grey RAL 7035, Epoxy polyester powder coating, 50/70 µm thickness
Galvanized steel rear panel th. 10/10 mm
Painted steel side/top/bottom panels th. 10/10 mm
Painted steel faceplate th. 10/10 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
Short-time withstand current (Icw):12.5 kA for 0.1 seconde
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			
1CO2R24S	94	77	71
1CO3R24S	108	89	81
1CO4R24S	122	100	92
1CO5R24S	138	113	104
1CO6R24S	158	130	119
1CO7R24S	171	141	129
1CO8R24S	187	154	141
To be equipped cabinets			
1CO6E24S	158	130	119
1CO6E36S	193	159	145
1CO7E24S	171	141	129
1CO7E36S	214	176	161
1CO8E24S	187	154	141
1CO8E36S	235	193	177

■ 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

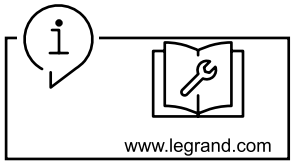
Compliant with NF EN / IEC 61439-2 and -3

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.