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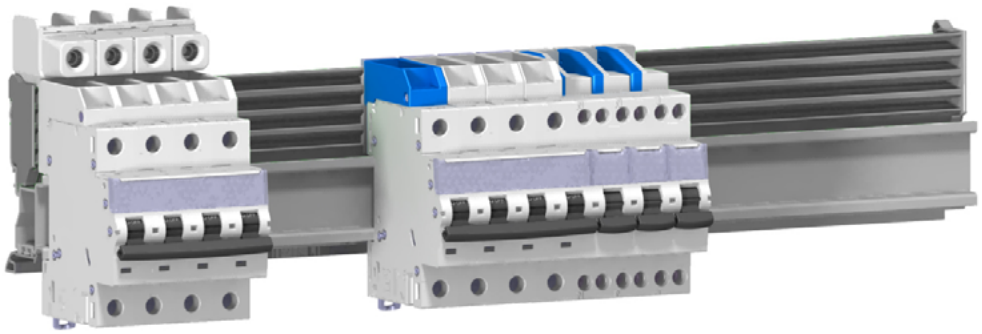
HX³ Horizontal Distribution Block with Automatic Connection, 80 or 125 A

Cat.Nos: 0RR125M24/36
0RR125L1/L2/L3/N/NL
0RR125ALM/ALP/ALR



1. GENERAL CHARACTERISTICS

Horizontal distribution systems: they allow three-phase or single-phase distribution without wiring modular devices, 1 module per pole, on 1 row
Connection and disconnection of devices are carried out automatically and safely, even when the distribution block is energized (off-load), thanks to the IPxxB insulation of the distribution block and the connection modules attached to the devices
Total freedom in the arrangement and combination of devices: 1P+N, 2P, 3P, 4P, residual current blocks, auxiliaries, and control devices. The phase to be connected is selected by choosing the connection module.
Installation in XL³ HP 160/630/6300 enclosures directly on the rail using the supplied spacer
Requires a front plate with a minimum height of 150 mm.
Under installation conditions, they comply with IS 223 at row level.

Caution: This system is designed for standard distribution networks. For specific applications (starters, pumps, compressors, etc.), please contact LEGRAND.

2. RANGE

Automatic connection distribution blocks:
Supplied with an aluminum spacer for direct mounting on rail ⊥
0RR125M24: length 24 modules
0RR125M36: length 36 modules

125 A supply module
Allows an operating current of 125 A.
Neutral on the left.
0RR125ALM: 4 modules

Connection modules:
Allow automatic connection and disconnection of modular devices on the row distribution block.
Phase selection is carried out by choosing the connection module.
0RR125L1: set of 10 L1 connection modules
0RR125L2: set of 10 L2 connection modules
0RR125L3: set of 10 L3 connection modules
0RR125N: set of 10 N connection modules
0RR125NLset of 3 L1N, L2N, L3N connection modules for 1P+N, 1-module devices, with screw terminals or automatic terminals

Protective cover
0RR125ALR : IP 40, 20 modules cuttable for rail mounting

3. TECHNICAL CHARACTERISTICS

3.1 Electrical characteristics

Operating current	125 A maximum (with supply module) 80 A maximum (without supply module)
Rated voltage and frequency	240 V / 415 V - 50 / 60 Hz with standard tolerances
Permissible short-circuit current (Icc)	25 kA at 415 V
Rated short-time withstand current (Icw)	6 kA for 0.1 s 2,5 kA for 0.3 s 2 kA for 1 s
Rated impulse withstand voltage (Uimp)	4kV according to IEC/NF 61439-2 and 61439-3
Maximum power dissipation at 125A (W)	17.4 W for the 24-module distribution block 26.4 W for the 36-module distribution block
Maximum power dissipation at 80 A (W)	7.1 W for the 24-module distribution block 10.8 W for the 36-module distribution block
Maximum power dissipation at 63 A (W)	0.87 W for the connection module
Insulation voltage (Ui)	500 V according to IEC/NF 61493-2 and 61439-3
Pollution degree	3

Higher calorific value:
24-module supply rail: 3.112 MJ
36-module supply rail: 4.738 MJ
Connection module (1P and 1P+N): 0.159 MJ
Supply module: 0.636 MJ

3.2 Mechanical characteristics

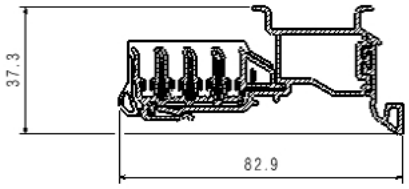
Material: halogen-free plastics.
Part marking complies with ISO 11469 and ISO 1043.
Degree of protection: Protection against solid objects and liquids: IP20 (according to IEC 529, EN 60529, and NF C 20-010)
Resistance to sinusoidal vibrations: according to IEC 60068-2-35.
- Axes: x, y, and z
- Frequency range: 5 to 100 Hz. Duration: 90 min.
- Displacement: 1 mm (5 to 13.2 Hz).
- Acceleration: 0.7 g with g = 9,81 m/s² (13.2 to 100 Hz).

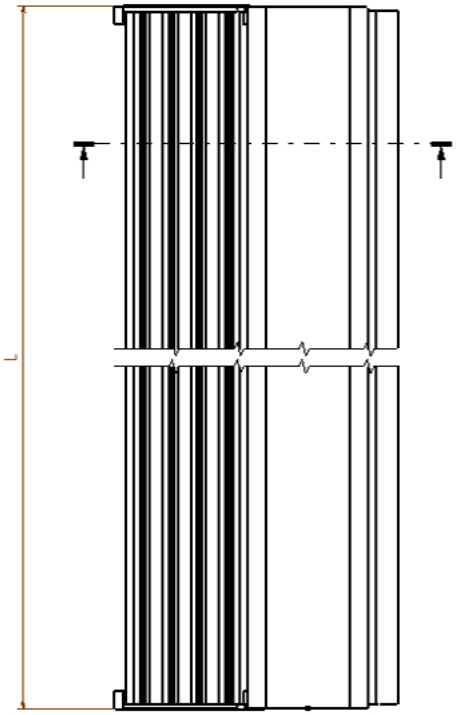
3.3 Resistance to climatic conditions

Ambient operating temperature: - 25 °C to + 70 °C
Ambient storage temperature: - 40 °C to + 70 °C.

4. DIMENSIONS

■ **4.1 Supply rails** (Cat.Nos 0RR125M24 and 0RR125M36)





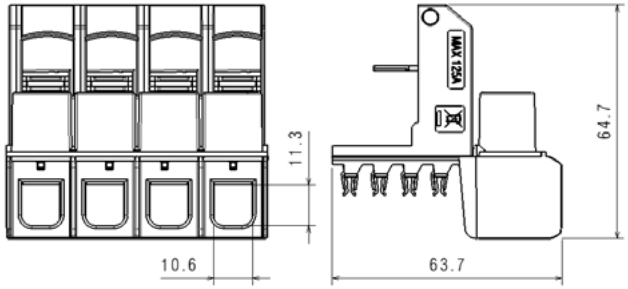
24 modules : L = 432 mm
36 modules : L = 652 mm

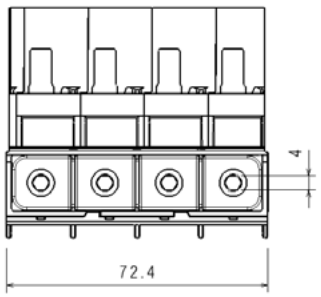
Weight
24 modules : 0.501 kg
36 modules : 0.675 kg

Packed volume:

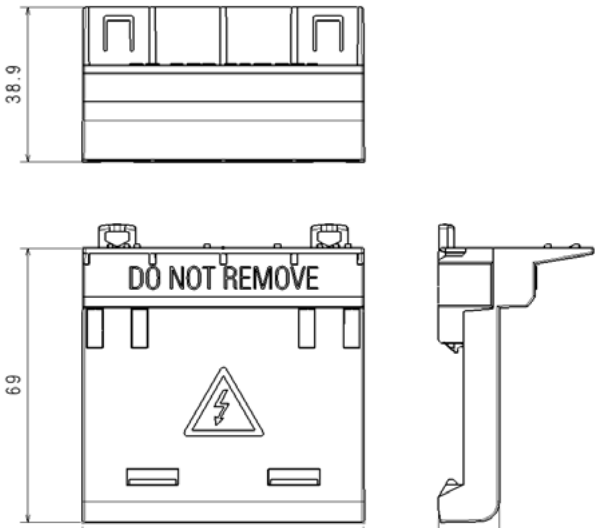
	Volume (dm³)	Packaging
24 modules	3.3	5
36 modules	4.8	5

■ **4.2 Supply module** (Cat.No 0RR125ALM)
Phase and neutral identification by pad printing (neutral on the left).





Phase protection module (supplied with the supply module)

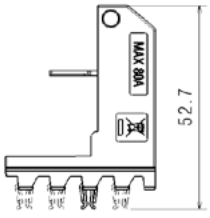


Weight (supply module + phase protection module): 0.173 kg

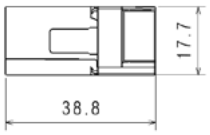
Packed volume:

	Volume (dm³)	Packaging
Supply module + phase protection module	0.75	1

■ **4.3 Connection modules**
1P connection module (Cat.Nos 0RR125L1/L2/L3/N)



Phase and neutral identification by pad printing



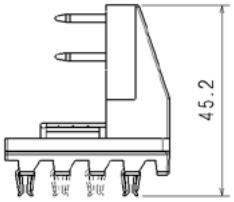
Weight: 0.010 kg

Packed volume:

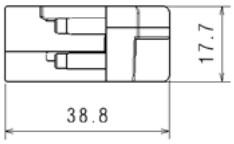
	Volume (dm³)	Packaging
1P connection module	0.75	10

4. DIMENSIONS *(continued)*

■ **4.3 Connection modules** ***(continued)***
1P+N connection module (Cat.No 0RR125NL)



Phase and neutral identification by pad printing (neutral on the left).



Weight: 0.019 kg

Packed volume:

	Volume (dm³)	Packaging
1P+N connection module Supplied in packs of 3	0.995	for 5 bags

■ **4.4 Protective cover** (Cat.No 0RR125ALR)
Weight: 0.046 kg
Packed volume: 22577,758 mm³

5. CONNECTION

■ **5.1 List of compatible modular devices**

Compatible modular devices	Connection modules
1P+N circuit breakers, 1 module, screw terminals	0RR125NL (L1N, L2N, L3N) neutral on the left
1P+N RCBOs for outgoing circuit protection	
1P+N RCCBs for outgoing circuit protection	
2P RCCBs for outgoing circuit protection	0RR125L1 0RR125L2 0RR125L3 0RR125N
4P RCCBs for outgoing circuit protection	
2P RCBOs for outgoing circuit protection	
4P RCBOs for outgoing circuit protection	
1P, 2P, 3P, 4P circuit breakers, 1 module/pole (1)	
Circuit breakers + add-on modules 2P et 4P	
Switch disconnectors	

(1) : Except products dedicated to the HX³ four-pole comb busbar.

■ **5.2 System supply**
- Direct supply via the supply module:
in this configuration, the operating current may be up to 125 A maximum.
- Indirect supply via the upstream row device:
the distribution block is protected by the upstream group device, and its operating current is limited by the rating of that device (80 A maximum).

6. STANDARDS AND REGULATIONS

Complies with standards: IEC/NF 61439 and Community Directives: 73/23/EEC + 93/68/EEC.

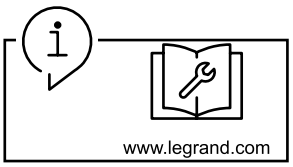
RoHS: Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

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

WEEE Directive (2012/19/EU): The sale of this product includes a contribution to the appointed environmental bodies of each European country in charge of handling, at the end of their life, the products falling within the scope of the EU Directive on Electrical and Electronic Equipment Waste.

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

7. OTHER INFORMATION



Instruction sheet: mounting information, available on e-catalog

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

PEP sheet: available on e-catalogue

XLPro 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..

XLPro 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.

For further technical information, please contact Legrand technical support.
Unless otherwise indicated, data reported in this document refers exclusively to test conditions according to product standards.

For different conditions of use of the product, inside electrical equipment or in any different installation context, refer to the regulatory requirements of the equipment, local regulations and design specifications of the system.