87045 LIMOGES Cedex
Telephone: +33 5 55 06 87 87 – FAX: +33 5 55 06 88 88

Neutral connector

Cat. N° (s): 4 063 40

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1. DESCRIPTION - USE:

. Neutral connector is used, instead of a terminal block, to connect the neutral wires in an installation where only phases are protected and/or switched.

Symbol:

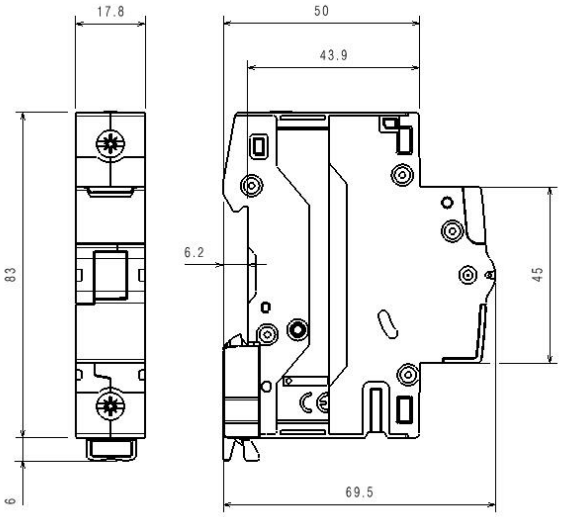
2. RANGE:

Polarity:
1P

Rated currents:
In = 63A

Rated voltage and frequency:
400 V ~, 50/60 Hz

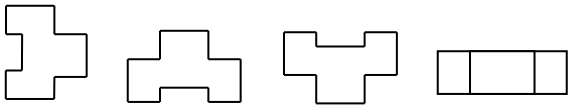
3. OVERALL DIMENSIONS:



4. PREPARATION - CONNECTION

Fixing:
. On 35 mm symmetric rail EN/IEC 60715

Operating positions:
.Vertical Horizontal Upside down On the side



Power supply:
. Either from the top or the bottom

Connection:
. Inputs and outputs via screw terminals
. The location of the terminals allows supplying by traditional HX³ pin busbar and fork busbar.

Terminal depth:
. 14 mm

Stripping length recommended:
. 11 mm

Screw head:
. Mixed, slotted and Pozidriv 2.

Tightening torque:
. Recommended: 2.5 Nm.
. Max: 3 Nm.

Required tools:
. For the terminals: Pozidriv n° 2 or flat screwdriver 5.5 mm (6 mm maximum).
. For fixing: flat screwdriver 5.5 mm (6 mm maximum).

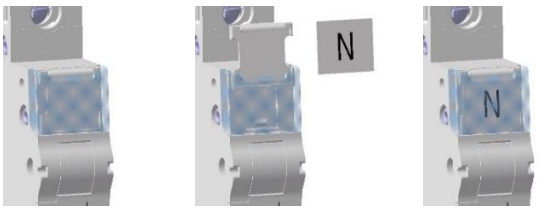
4. PREPARATION - CONNECTION *(continued)*

Connection:

Cross section	Copper cables	
	Without ferrule	With ferrule
Rigid cable	**1 x 1.5 mm² to 35 mm²** **2 x 1.5 mm² to 16 mm²**	-
Flexible cable	**1 x 1.5 mm² to 25 mm²** **2 x 1.5 mm² to 10 mm²**	**1 x 1.5 mm² to 25 mm²**

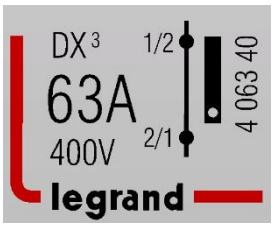
Labelling:

. Identification of the circuit by insertion of a label in the label holder.



5. GENERAL CHARACTERISTICS:

Marking on the front side:



5. GENERAL CHARACTERISTICS:

Minimum operating voltage and frequency:

. 12 V, 50/60 Hz

Rated impulse withstand voltage:

. Uimp = 6 kV

Pollution degree:

. 2 according to IEC/EN 60898-1
. 3 according to IEC/EN 60947-2

Resistance to environmental conditions:

. according to IEC/EN 60068-2-30 (55 °C, 90% RH)
. severity 2 (marine environment) in accordance with standard IEC/EN 60068-2-52

Enclosure material:

. Glow-wire test at 960 °C according to IEC/EN 60898-1 and IEC 60695-2-12
. Halogen-free

Average weight per pole:

. 0,075 kg

Ambient operating temperature:

. Min = -25 °C
. Max = +70 °C

Ambient storage temperature:

. Min = -40 °C
. Max = +70 °C

Degree of protection:

. Degree of protection in the terminals area:
IP 20 (in accordance with standards IEC/EN 30898-1 and IEC-EN 60529).
. Degree of protection of the remaining parts:
IP 40 (in accordance with standards IEC/EN 60529).
. Protection index against mechanical shocks:
IK 02 (in accordance with standards IEC/EN 62262).

Sinusoidal vibration resistance in accordance with IEC/EN 60068-2-6:

. Axis: x, y, z
. Frequence range: 5 ÷ 100 Hz; duration 90 minutes
. Displacement (5 ÷ 13,2 Hz): 1mm
. Acceleration (13,2 ÷ 100 Hz): 0,7g (g= 9,81m/s^2)

5. GENERAL CHARACTERISTICS *(continued)*

Power dissipated (at In):
1,9 W

Rated short-time with stand current IEC/EN 60947-1:
Icw = 1 kA

6. COMPLIANCE AND APPROVALS

Usage in special conditions:
. Category C compliant (testing temperature range from -25° C to +70° C, resistant to salt spray) in accordance with the classification defined in Appendix Q of standard IEC 60947-1

Respect for the environment – Compliance with European Union Directives:
. Compliance with Directive 2002/95/EC of 27/01/03 known as "RoHS" which provides for a restriction on the use of dangerous substances such as lead, mercury, cadmium, hexavalent chromium and polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) brominated flame retardants from 1st July 2006
. Compliance with the Directive 91/338/EEC of 18/06/91 and decree 94-647 of 27/07/04

Plastic materials:
. Halogen free plastic materials.
. Labelling of parts compliant with ISO 11469 and ISO 1043.

Packaging:
. Design and manufacture of packaging compliant with decree 98-638 of 20/07/98 and Directive 94/62/EC