

# 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:



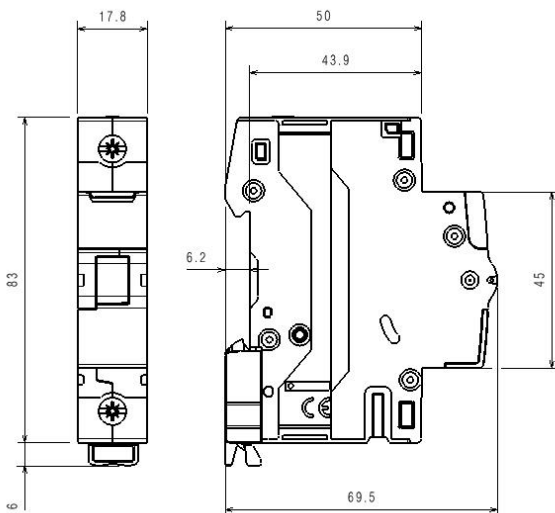
## 2. RANGE:

**Polarity:**  
1P

**Rated currents:**  
In = 63A

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

## 3. OVERALL DIMENSIONS:



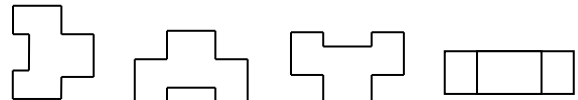
## 4. PREPARATION - CONNECTION

### 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 HX<sup>3</sup> 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).

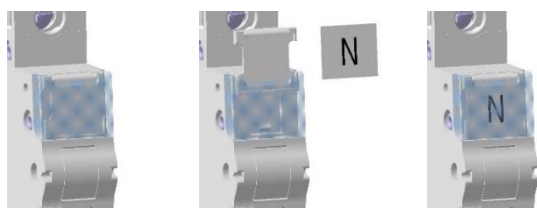
## 4. PREPARATION - CONNECTION *(continued)*

### Connection:

Cross section	Copper cables	
	Without ferrule	With ferrule
Rigid cable	1 x 1.5 mm <sup>2</sup> to 35 mm <sup>2</sup> 2 x 1.5 mm <sup>2</sup> to 16 mm <sup>2</sup>	-
Flexible cable	1 x 1.5 mm <sup>2</sup> to 25 mm <sup>2</sup> 2 x 1.5 mm <sup>2</sup> to 10 mm <sup>2</sup>	1 x 1.5 mm <sup>2</sup> to 25 mm <sup>2</sup>

### 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:

. U<sub>imp</sub> = 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  
. Frequency range: 5 ÷ 100 Hz; duration 90 minutes  
. Displacement ( 5 ÷ 13,2 Hz ): 1mm  
. Acceleration ( 13,2 ÷ 100 Hz ): 0,7g ( g = 9,81m/s<sup>2</sup> )

## 5. GENERAL CHARACTERISTICS *(continued)*

### Power dissipated (at In):

1,9 W

### Rated short-time with stand current IEC/EN 60947-1:

I<sub>cs</sub> = 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 1<sup>st</sup> 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