

Eaton 286572

Catalog Number: 286572

Eaton Moeller series xPole - PL6 MCB. PL6, 2-pole, tripping characteristic: C, rated current In: 50 A, rated switching capacity IEC/EN 60898-1: 6 kA

General specifications

Product Name	Catalog Number
Eaton Moeller series xPole - PL6 MCB	286572
Model Code	EAN
PL6-C50/2	4015082865726
Product Length/Depth	Product Height
85 mm	73 mm
Product Width	Product Weight
35.4 mm	0.24 kg
Compliances	
RoHS conform	

Product specifications

Rated operational current for specified heat dissipation (In)

50 A

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.4 Clearances and creepage distances

Meets the product standard's requirements.

Rated short-circuit breaking capacity (EN 60898) at 230 V

6 kA

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Current limiting class

3

Rated short-circuit breaking capacity (EN 60898) at 400 V

6 kA

Amperage Rating

50 A

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

Frequency rating - max

60 Hz

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.8 Connections for external conductors

Is the panel builder's responsibility.

Rated short-circuit breaking capacity (IEC 60947-2) at 400 V

0 kA

Number of poles (total)

2

Rated short-circuit breaking capacity (IEC 60947-2) at 230 V

0 kA

Special features

Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity

Resources

Catalogs

[eaton-miniature-circuit-breaker-xpole-pl6-catalog-ca20190212-en-us.pdf](#)

[eaton-xpole-pl6-mcb-catalog-ca019069en-en-us.pdf](#)

[eaton-xpole-protective-devices-catalog-ca019014en-en-us.pdf](#)

Certification reports

[DA-DC-03_PL6](#)

Characteristic curve

[eaton-xpole-mm4-6-m-mcb-characteristic-curve-002.jpg](#)

[Kl_I7_c](#)

Drawings

[eaton-xpole-pl6-mcb-dimensions.jpg](#)

[Mas_CLS](#)

[eaton-xpole-pl6-mcb-3d-drawing-002.jpg](#)

[PL6_i2t_c](#)

Installation instructions

[IL019140ZU](#)

Wiring diagrams

[eaton-xpole-mm4-6-m-mcb-wiring-diagram-003.jpg](#)

[PLS_2P](#)

Ambient operating temperature - max

75 °C

Heat dissipation per pole, current-dependent

0 W

Built-in depth

70.5 mm

Rated switching capacity (IEC/EN 60898-1)

6 kA

Features

Additional equipment possible

Connectable conductor cross section (solid-core) - min

1 mm²

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

Number of poles

Two-pole

Ambient operating temperature - min

-25 °C

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

Used with

Miniature circuit breaker

PL6

Equipment heat dissipation, current-dependent

9.9 W

Tripping characteristic

C

Frequency rating - min

50 Hz

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be

evaluated.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

Static heat dissipation, non-current-dependent

0 W

Application

Switchgear for residential and commercial applications

xPole - Switchgear for residential and commercial applications

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

Voltage type

AC

Number of poles (protected)

2

Heat dissipation capacity

0 W

Release characteristic

C

Width in number of modular spacings

2

10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

Connectable conductor cross section (solid-core) - max

25 mm²

Degree of protection

IP20

Overvoltage category

III

Pollution degree

2

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Connectable conductor cross section (multi-wired) - min

1 mm²

Rated impulse withstand voltage (U_{imp})

4 kV

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

Connectable conductor cross section (multi-wired) - max

25 mm²

Type

Miniature circuit breaker

PL6

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.7 Inscriptions

Meets the product standard's requirements.

Rated operational voltage (U_e) - max

400 V

Rated insulation voltage (U_i)

440 V



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