

# Eaton 286518

Catalog Number: 286518

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



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller series xPole - PL6 MCB	286518
<b>Model Code</b>	<b>EAN</b>
PL6-B6/1	4015082865184
<b>Product Length/Depth</b>	<b>Product Height</b>
85 mm	73 mm
<b>Product Width</b>	<b>Product Weight</b>
17.7 mm	0.12 kg
<b>Compliances</b>	
RoHS conform	

## Product specifications

### Rated operational current for specified heat dissipation (In)

6 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

6 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)

1

### 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.jpg](#)

### Drawings

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

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

### Installation instructions

[IL019140ZU](#)

### Wiring diagrams

[eaton-xpole-mm4-6-m-mcb-wiring-diagram-002.jpg](#)

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 mm<sup>2</sup>

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

Number of poles

Single-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.

Equipment heat dissipation, current-dependent

1.8 W

Tripping characteristic

B

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)

1

Heat dissipation capacity

0 W

Release characteristic

B

Width in number of modular spacings

1

Power loss

1.8 W

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 mm<sup>2</sup>

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 mm<sup>2</sup>

Rated impulse withstand voltage (Uimp)

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 mm<sup>2</sup>

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 (Ue) - max

230 V

Rated insulation voltage (Ui)

440 V



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