

# Eaton 286591

Catalog Number: 286591

Eaton Moeller series xPole - PL6 MCB. PL6, 3-pole, tripping characteristic: B, rated current  $I_n$ : 25 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	286591
<b>Model Code</b>	<b>EAN</b>
PL6-B25/3	4015082865917
<b>Product Length/Depth</b>	<b>Product Height</b>
85 mm	73 mm
<b>Product Width</b>	<b>Product Weight</b>
53.1 mm	0.36 kg
<b>Compliances</b>	
RoHS conform	

## Type

Miniature circuit breaker  
PL6

## Special features

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

## Application

Switchgear for residential and commercial applications  
xPole - Switchgear for residential and commercial applications

## Amperage Rating

25 A

## Features

Additional equipment possible

### 10.10 Temperature rise

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

### 10.11 Short-circuit rating

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

### 10.12 Electromagnetic compatibility

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

### 10.13 Mechanical function

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

### 10.2.2 Corrosion resistance

Meets the product standard's requirements.

#### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

#### 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

## Catalogs

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

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

[eaton-xpole-pl6-mcb-catalog-ca019069en-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](#)

## mCAD model

[pls\\_3p.stp](#)

[pls\\_3p.dwg](#)

## Wiring diagrams

[eaton-xpole-mm4-6-m-mcb-wiring-diagram-005.jpg](#)

elect. effects

Meets the product standard's requirements.

#### 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

#### 10.2.5 Lifting

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

#### 10.2.6 Mechanical impact

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

#### 10.2.7 Inscriptions

Meets the product standard's requirements.

#### 10.3 Degree of protection of assemblies

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

#### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

#### 10.5 Protection against electric shock

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

#### 10.6 Incorporation of switching devices and components

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

#### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

#### 10.8 Connections for external conductors

Is the panel builder's responsibility.

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### Pollution degree

2

#### Used with

PL6

Miniature circuit breaker

Degree of protection

IP20

Equipment heat dissipation, current-dependent

9.4 W

Rated impulse withstand voltage (Uimp)

4 kV

Tripping characteristic

B

Ambient operating temperature - max

75 °C

Ambient operating temperature - min

-25 °C

Built-in depth

70.5 mm

Connectable conductor cross section (multi-wired) - max

25 mm<sup>2</sup>

Connectable conductor cross section (multi-wired) - min

1 mm<sup>2</sup>

Connectable conductor cross section (solid-core) - max

25 mm<sup>2</sup>

Connectable conductor cross section (solid-core) - min

1 mm<sup>2</sup>

Current limiting class

3

Frequency rating - max

60 Hz

Frequency rating - min

50 Hz

Heat dissipation capacity

0 W

Heat dissipation per pole, current-dependent

0 W

Width in number of modular spacings

3

Voltage type

AC

Overvoltage category

III

Number of poles

Three-pole

Release characteristic

B

Number of poles (protected)

3

Number of poles (total)

3

Rated insulation voltage (U<sub>i</sub>)

440 V

Rated operational current for specified heat dissipation (I<sub>n</sub>)

25 A

Rated operational voltage (U<sub>e</sub>) - max

400 V

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

6 kA

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

6 kA

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

0 kA

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

0 kA

Rated switching capacity (IEC/EN 60898-1)

6 kA

Static heat dissipation, non-current-dependent

0 W

Power loss

8.8 W



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