

# Eaton 286468

Catalog Number: 286468

Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 20A, 30mA, MCB trip curve C, 1pole+N, RCCB trip type: AC, PFL6

## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection	286468
	<b>Model Code</b>
	PFL6-20/1N/C/003
<b>EAN</b>	<b>Product Length/Depth</b>
4015082864682	86 mm
<b>Product Height</b>	<b>Product Width</b>
75 mm	37 mm
<b>Product Weight</b>	<b>Compliances</b>
.225 kg	CE Marked RoHS conform
<b>Certifications</b>	
CE	

## Product specifications

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

20 A

### 10.11 Short-circuit rating

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

### Rated switching capacity (IEC/EN 61009)

6 kA

### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

### 10.12 Electromagnetic compatibility

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

### Current limiting class

3

### Amperage Rating

20 A

### 10.2.5 Lifting

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

### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

### Rated short-circuit breaking capacity (EN 60947-2)

0 kA

### Frequency rating

50 Hz

### 10.8 Connections for external conductors

Is the panel builder's responsibility.

### Number of poles (total)

2

### Fault current rating

.03 A

### Sensitivity type

Type AC, AC current sensitive.

### Ambient operating temperature - max

40 °C

### Heat dissipation per pole, current-dependent

## Resources

### Catalogs

[eaton-xpole-pfl6-rcbo-catalog-ca019046en-en-us.pdf](#)

[eaton-xpole-pfl7-rcbo-catalog-ca019045en-en-us.pdf](#)

### Certification reports

[DA-DC-03\\_PFL](#)

### Characteristic curve

[PFL6\\_1N\\_i2t\\_c](#)

[eaton-xpole-pfl6-7-characteristic-curve-002.jpg](#)

### Drawings

[eaton-xpole-pkn6-m-dimensions.jpg](#)

[Mas\\_PKN](#)

[Ausloese\\_PKNM](#)

[eaton-xpole-pkn6-m-3d-drawing.jpg](#)

### Installation instructions

[IL019140ZU](#)

[eaton-xpole-combined-mcb-rcd-device-rcbo-packaging-manual-multilingual.pdf](#)

### Specifications and datasheets

[Eaton Specification Sheet - 286468](#)

### Wiring diagrams

[FL7](#)

[eaton-xeffect-frbm6/m-wiring-diagram.jpg](#)

0 W

#### Built-in depth

69.5 mm

#### Features

Concurrently switching N-neutral

#### 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 + N

#### 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.

#### Rated switching capacity

6 kA

#### Equipment heat dissipation, current-dependent

4.7 W

#### Tripping characteristic

C

#### 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

#### 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

Leakage current type

AC

Rated short-circuit breaking capacity (EN 61009-1)

6 kA

Tripping

Non-delayed

Operating ambient temperature - min

-25 °C

Heat dissipation capacity

0 W

Release characteristic

C

Impulse withstand current

Partly surge-proof, 250 A

Product range

PFL6

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.

Rated short-circuit breaking capacity (EN 61009)

6 kA

Operating ambient temperature - max

40 °C

Voltage rating

230 V

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 (U<sub>imp</sub>)

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.

Basic function

Combined RCD/MCB devices

Rated current

20 A

Connectable conductor cross section (multi-wired) - max

25 mm<sup>2</sup>

Type

RCBO

10.2.2 Corrosion resistance

Meets the product standard's requirements.

Surge current capacity

.25 kA

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 short-circuit breaking capacity (IEC 60947-2)

0 kA

Disconnection characteristic

Undelayed

Rated operational voltage (Ue) - max

230 V

Rated insulation voltage (Ui)

440 V



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