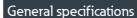
# Eaton 113100

## Catalog Number: 113100

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: A, PFL6





Eaton Moeller series xPole - PFL6/7

RCBO - residual-current circuit breaker

with overcurrent protection

Product Length/Depth

86 mm

**Product Width** 

37 mm

Compliances

CE Marked RoHS conform Catalog Number

113100

**EAN** 

4015081126453

**Product Height** 

75 mm

**Product Weight** 

0.225 kg

Certifications

CE

Model Code

PFL6-20/1N/C/003-A





## Delivery program

Application

Switchgear for residential and commercial applications

**Basic function** 

Combined RCD/MCB devices

**Product application** 

Switchgear for industrial and advanced commercial applications

Number of poles

Single-pole + N

Number of poles (protected)

1

Number of poles (total)

2

Release characteristic

С

Rated current

20 A

Fault current rating

0.03 A

Type

**RCBO** 

## Technical data - electrical

Voltage type

AC

Voltage rating

230 V

Rated operational voltage (Ue) - max

230 V

Rated insulation voltage (Ui)

440 V

Rated impulse withstand voltage (Uimp)

4 kV

Frequency rating

50 Hz

Leakage current type

Α

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

0 kA

Rated short-circuit breaking capacity (EN 61009)

6 kA

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

6 kA

Rated short-circuit breaking capacity (IEC 60947-2)

0 kA

Surge current capacity

0.25 kA

Disconnection characteristic

Undelayed

Overvoltage category

Ш

Pollution degree

2

## Technical data - mechanical

Width in number of modular spacings

2

Design verification as per IEC/EN 61439 - technical data

Rated operational current for specified heat dissipation (In)

20 A

Built-in depth

69.5 mm

Degree of protection

IP20

Connectable conductor cross section (solid-core) - min

1 mm<sup>2</sup>

Connectable conductor cross section (solid-core) - max

25 mm<sup>2</sup>

Connectable conductor cross section (multi-wired) - min

1 mm

Connectable conductor cross section (multi-wired) - max

25 mm<sup>2</sup>

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

4.7 W

Static heat dissipation, non-current-dependent

0 W

Heat dissipation capacity

0 W

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

40 °C

## Design verification as per IEC/EN 61439

#### 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 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

## Additional information

#### **Current limiting class**

3

#### **Features**

Concurrently switching N-neutral

## Resources

## Catalogues

eaton-xpole-pfl7-rcbo-catalog-ca019045en-en-us.pdf eaton-xpole-pfl6-rcbo-catalog-ca019046en-en-us.pdf

## Certification reports

DA-DC-03\_PFL

## Installation instructions

IL019140ZU

eaton-xpole-combined-mcb-rcd-device-rcbo-packaging-manual-multilingual.pdf

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.

#### 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.



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