

# Eaton 236249

Catalog Number: 236249

Eaton Moeller series xPole - PKN6/M RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 20A, 30mA, C-LS-Char, 1N pole, FI-Char: A



## General specifications

|   |                             |
|---|-----------------------------|
| <b>Product Name</b>   | <b>Catalog Number</b>       |
| Eaton Moeller series xPole - PKN6/M RCBO - residual-current circuit breaker with overcurrent protection | 236249                      |
|   | <b>Model Code</b>           |
|   | PKNM-20/1N/C/003-A-MW       |
| <b>EAN</b>  | <b>Product Length/Depth</b> |
| 4015082362492   | 80 mm                       |
| <b>Product Height</b>   | <b>Product Width</b>        |
| 75 mm   | 35 mm                       |
| <b>Product Weight</b>   | <b>Compliances</b>          |
| 0.193 kg  | CE Marked                   |
|   | RoHS conform                |
| <b>Certifications</b>   |                             |
| CE  |                             |

**Type**

RCBO

**Application**

Switchgear for residential and commercial applications

**Amperage Rating**

20 A

**Voltage rating**

230 V

**Surge current capacity**

0.25 kA

**Voltage type**

AC

**Width in number of modular spacings**

2

**Features**

Concurrently switching N-neutral

**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-xpole-pknm-rcbo-catalog-ca019041en-en-us.pdf](#)

[eaton-xpole-pknm-110va-rcbo-catalog-ca019042en-en-us.pdf](#)

[eaton-xpole-pkn6-rcbo-catalog-ca019043en-en-us.pdf](#)

**Certification reports**

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

**Characteristic curve**

[eaton-xpole-pkn6-m-characteristic-curve-005.jpg](#)

**Drawings**

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

[eaton-xeffect-frbm6m-wiring-diagram.jpg](#)

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

**eCAD model**

[ETN.PKNM-20\\_1N\\_C\\_003-A-MW](#)

**Installation instructions**

[IL019140ZU](#)

#### 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.

#### Operating ambient temperature - max

40 °C

#### Operating ambient temperature - min

-25 °C

#### Product range

PKNM

Rated current

20 A

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

20 A

Rated switching capacity (IEC/EN 61009)

10 kA

Static heat dissipation, non-current-dependent

0 W

Tripping characteristic

C

Built-in depth

70 mm

Current limiting class

3

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

0 kA

Ambient operating temperature - max

40 °C

Ambient operating temperature - min

-25 °C

Fault current rating

0.03 A

Heat dissipation capacity

0 W

Heat dissipation per pole, current-dependent

0 W

Number of poles (protected)

1

Number of poles (total)

2

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

230 V

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

0 kA

Rated switching capacity

10 kA

## Basic function

Combined RCD/MCB devices

## Equipment heat dissipation, current-dependent

4.7 W

## Rated impulse withstand voltage (Uimp)

4 kV

## Degree of protection

IP20

## Tripping

Non-delayed

## Overvoltage category

III

## Pollution degree

2

## Impulse withstand current

Partly surge-proof, 250 A

## Leakage current type

A

## Release characteristic

C

## Sensitivity type

Type A, pulse-current sensitive

## Frequency rating

50 Hz

## Rated insulation voltage (Ui)

440 V

## 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<sup>2</sup>

## Connectable conductor cross section (multi-wired) - max

25 mm<sup>2</sup>

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

10 kA

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

10 kA

Number of poles

Single-pole + N

Disconnection characteristic

Undelayed



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