

# Eaton 102871

Catalog Number: 102871

Eaton Moeller series xPole - PFIM Type AC, A, U, R RCCB.  
Residual current circuit breaker (RCCB), 100A, 4p, 300mA, type A

## General specifications



Product Name	Catalog Number
Eaton Moeller series xPole - PFIM Type AC, A, U, R RCCB	102871
	EAN
	4015081027163
Product Length/Depth	Product Height
80 mm	76 mm
Product Width	Product Weight
70 mm	0.381 kg
Compliances	Certifications
RoHS conform	IEC/EN 61008
Model Code	
PFIM-100/4/03-A	

## Termékjellemzők

### Used with

Residual current circuit breakers

Type A

PFIM

KLV-TC-4 276241 (Compact enclosure)

Z-FW/LP 248296 (Remote control and automatic switching device)

Z-RC/AK-4MU 101062 (sealing cover set)

### Type

PFIM

Residual current circuit breakers

Type A

### Special features

Maximum operating temperature is 60 °C:  
Starting at 40 °C, the max. permissible continuous current decreases by 1.2% for every 1 °C  
Tripping signal contact for subsequent installation Z-NHK 248434

### Application

Residual current circuit breaker for residential and commercial applications  
xPole - Switchgear for residential and commercial applications

### Amperage Rating

100 A

### Voltage rating

230 V AC / 400 V AC

### Features

Residual current circuit breaker  
Additional equipment possible

### Accessories required

Z-HK 248432

## Források

eCAD model

ETN.PFIM-100\_4\_03-A.edz

Katalógusok

eaton-xpole-pfim-x-rccb-catalog-ca019029en-en-us.pdf

Megfelelőségi nyilatkozatok

DA-DC-03\_PFI

Rajzok

eaton-circuit-breaker-xeffect-frcmm-rccb-dimensions.jpg

eaton-xpole-pf67-rccb-3d-drawing.jpg

Telepítési útmutató

IL019140ZU

IL019172ZU

#### 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 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.

#### Fitted with:

Interlocking device

#### Frame

45 mm

#### Frequency rating

50 Hz

#### Pollution degree

2

#### Mounting Method

Quick attachment with 2 latch positions for DIN-rail IEC/EN

60715

DIN rail

#### Climatic proofing

25-55 °C / 90-95% relative humidity according to IEC 60068-2

#### Equipment heat dissipation, current-dependent

18.8 W

#### Rated impulse withstand voltage (U<sub>imp</sub>)

4 kV

#### Rated short-time withstand current (I<sub>cw</sub>)

10 kA

#### Admissible back-up fuse overload - max

63 A gG/gL

#### Built-in width (number of units)

70 mm (4 SU)

#### Busbar material thickness

0.8 mm - 2 mm

#### Short-circuit rating

100 A (max. admissible back-up fuse)

#### Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

#### Terminals (top and bottom)

Open mouthed/lift terminals

#### Test circuit range

196 V AC - 456 V AC

#### Ambient operating temperature - max

60 °C

#### Ambient operating temperature - min

-25 °C

#### Built-in depth

70.5 mm

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

16 mm<sup>2</sup>

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

1.5 mm<sup>2</sup>

#### Connectable conductor cross section (solid-core) - max

35 mm<sup>2</sup>

#### Connectable conductor cross section (solid-core) - min

1.5 mm<sup>2</sup>

#### Fault current rating

300 mA

#### Heat dissipation capacity

0 W

#### Heat dissipation per pole, current-dependent

0 W

#### Permitted storage and transport temperature - max

60 °C

#### Permitted storage and transport temperature - min

-35 °C

#### Lifespan, mechanical

20000 operations

#### Degree of protection

IP20, IP40 with suitable enclosure

IP20

Impulse withstand current

Partly surge-proof 250 A

Number of poles

Four-pole

Leakage current type

A

Lifespan, electrical

4000 operations

Sensitivity type

Pulse-current sensitive

Rated fault current - max

0.3 A

Rated fault current - min

0.3 A

Rated insulation voltage (Ui)

440 V

Rated operational current for specified heat dissipation (In)

100 A

Rated operational voltage (Ue) - max

400 V

Rated residual making and breaking capacity

1000 A

Static heat dissipation, non-current-dependent

0 W

Surge current capacity

0.25 kA

Width in number of modular spacings

4

Voltage type

AC

Terminal capacity (solid wire)

1.5 mm<sup>2</sup> - 35 mm<sup>2</sup>

Tripping time

Non-delayed

Rated short-circuit strength

10 kA

Terminal capacity (stranded cable)

16 mm<sup>2</sup> (2x)

RAL-number

7035

Power loss

18.8 W



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