

# Eaton 286497

Catalog Number: 286497

Eaton Moeller series xPole - PF6/7 RCCB. PF6, 2 pole, In: 40 A, Icn: 6 kA, IΔN: 0.1 A, Type AC, AC current sensitive, Partly surge-proof 250 A, residential and commercial

## General specifications

|  |                             |
|--|-----------------------------|
| <b>Product Name</b>                        | <b>Catalog Number</b>       |
| Eaton Moeller series xPole - PF6/7<br>RCCB | 286497                      |
|  | <b>Model Code</b>           |
|  | PF6-40/2/01                 |
| <b>EAN</b>                                 | <b>Product Length/Depth</b> |
| 4015082864972                              | 80 mm                       |
| <b>Product Height</b>                      | <b>Product Width</b>        |
| 71 mm                                      | 35 mm                       |
| <b>Product Weight</b>                      | <b>Compliances</b>          |
| .22 kg                                     | RoHS conform                |
| <b>Certifications</b>                      |                             |
| IEC/EN 61008                               |                             |

## Product specifications

Rated operational current for specified heat dissipation (In)  
40 A

### 10.11 Short-circuit rating

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

Permitted storage and transport temperature - min  
-35 °C

### 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.

### Mounting Method

Quick attachment with 2 latch positions for DIN-rail IEC/EN  
60715  
DIN rail

### Amperage Rating

40 A

### 10.2.5 Lifting

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

### Rated fault current - max

.1 A

### Test circuit range

184 V AC - 250 V AC

### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

### Tripping time

Non-delayed

### Fitted with:

IS/SPE-1TE 101911  
Interlocking device

### Rated residual making and breaking capacity

500 A

### Frequency rating

50 Hz

## Resources

### Application notes

[eaton-rcd-application-guide-br019003en-en-us.pdf](#)

### Catalogs

[eaton-xpole-pf7-rcb-catalog-ca019032en-en-us.pdf](#)

[eaton-xpole-pf6-rcb-catalog-ca019034en-en-us.pdf](#)

### Certification reports

[DA-DC-03\\_Pf6](#)

### Drawings

[eaton-circuit-breaker-xeffect-frcmm-rcb-dimensions.jpg](#)

[FRCmM\\_Conn\\_1](#)

[eaton-xpole-pf6/7-rcb-3d-drawing.jpg](#)

### Installation instructions

[IL019140ZU](#)

### Wiring diagrams

[PF7\\_2P](#)

[eaton-xpole-pf6/7-rcb-wiring-diagram.jpg](#)

[Mas\\_PFIM](#)

## 10.8 Connections for external conductors

Is the panel builder's responsibility.

### Fault current rating

100 mA

### Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

### Special features

Maximum operating temperature is 60 °C: Starting at 40 °C, the max. permissible continuous current decreases by 2.5% for every 1 °C

Tripping signal contact for subsequent installation Z-NHK  
248434

### Sensitivity type

AC current sensitive

### Ambient operating temperature - max

60 °C

### Heat dissipation per pole, current-dependent

0 W

### Climatic proofing

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

### Built-in depth

69.5 mm

### Short-circuit rating

63 A (max. admissible back-up fuse)

### Features

Residual current circuit breaker

Additional equipment possible

### Lifespan, electrical

4000 operations

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

1.5 mm<sup>2</sup>

## 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

### Number of poles

Two-pole

### Terminal capacity (solid wire)

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

### 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.

#### Rated short-circuit strength

6 kA

#### 10.5 Protection against electric shock

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

#### Used with

Type AC

Residual current circuit breakers

PF6

KLV-TC-2 276240 (Compact enclosure)

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

Z-RC/AK-2TE 285385 (sealing cover set)

#### Equipment heat dissipation, current-dependent

5.4 W

#### 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

Residual current circuit breaker for residential and commercial applications

xPole - 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

#### Terminal capacity (stranded cable)

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

#### Leakage current type

AC

#### Frame

45 mm

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

35 mm (2 SU)

#### Terminals (top and bottom)

Open mouthed/lift terminals

#### Heat dissipation capacity

0 W

#### Impulse withstand current

Partly surge-proof 250 A

#### Width in number of modular spacings

2

#### Busbar material thickness

0.8 mm - 2 mm

#### 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.

#### Lifespan, mechanical

20000 operations

#### Voltage rating

230 V AC

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

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

35 mm<sup>2</sup>

#### Degree of protection

IP20, IP40 with suitable enclosure

IP20

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

6 kA

#### Accessories required

Z-HK 248432

#### Pollution degree

2

#### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Connectable conductor cross section (multi-wired) - min

1.5 mm<sup>2</sup>

Rated impulse withstand voltage (Uimp)

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.

Connectable conductor cross section (multi-wired) - max

16 mm<sup>2</sup>

Type

PF6

Residual current circuit breakers

Type AC

#### 10.2.2 Corrosion resistance

Meets the product standard's requirements.

#### 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.

Surge current capacity

.25 kA

Permitted storage and transport temperature - max

60 °C

Admissible back-up fuse overload - max

25 A gG/gL

Rated fault current - min

.1 A

Rated operational voltage (Ue) - max

230 V

Rated insulation voltage (Ui)

440 V



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