

# Eaton 112924

Catalog Number: 112924

Eaton Moeller series xPole - PF6/7 RCCB. PF6, 2 pole, In: 40 A, Icn: 6 kA, IΔN: 0.03 A, Type A, Pulse-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 RCCB	112924  EAN 4015081124626
<b>Product Length/Depth</b>	<b>Product Height</b>
80 mm	71 mm
<b>Product Width</b>	<b>Product Weight</b>
35 mm	0.22 kg
<b>Compliances</b>	<b>Certifications</b>
RoHS conform	IEC/EN 61008
<b>Model Code</b>	
PF6-40/2/003-A	

## Delivery program

### Application

Residual current circuit breaker for residential and commercial applications

xPole - Switchgear for residential and commercial applications

### Number of poles

Two-pole

### Tripping time

Non-delayed

### Amperage Rating

40 A

### Rated short-circuit strength

6 kA

### Fault current rating

30 mA

### Sensitivity type

Pulse-current sensitive

### Impulse withstand current

Partly surge-proof 250 A

### Type

PF6

Residual current circuit breakers

Type A

## Technical data - electrical

### Voltage rating

230 V AC

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

230 V

### Rated insulation voltage (U<sub>i</sub>)

440 V

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

4 kV

### Rated fault current - min

0.03 A

### Rated fault current - max

0.03 A

### Frequency rating

50 Hz

### Short-circuit rating

63 A (max. admissible back-up fuse)

### Leakage current type

A

### Rated residual making and breaking capacity

500 A

### Admissible back-up fuse overload - max

25 A gG/gL

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

6 kA

### Surge current capacity

0.25 kA

### Test circuit range

184 V AC - 250 V AC

### Pollution degree

2

### Lifespan, electrical

4000 operations

## Technical data - mechanical

## Design verification as per IEC/EN 61439 - technical data

**Frame**  
45 mm

**Width in number of modular spacings**  
2

**Built-in width (number of units)**  
35 mm (2 SU)

**Built-in depth**  
69.5 mm

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

**Degree of protection**  
IP20, IP40 with suitable enclosure  
IP20

**Terminals (top and bottom)**  
Open mouthed/lift terminals

**Terminal capacity (solid wire)**  
1.5 mm<sup>2</sup> - 35 mm<sup>2</sup>

**Connectable conductor cross section (solid-core) - min**  
1.5 mm<sup>2</sup>

**Connectable conductor cross section (solid-core) - max**  
35 mm<sup>2</sup>

**Terminal capacity (stranded cable)**  
16 mm<sup>2</sup> (2x)

**Connectable conductor cross section (multi-wired) - min**  
1.5 mm<sup>2</sup>

**Connectable conductor cross section (multi-wired) - max**  
16 mm<sup>2</sup>

**Terminal protection**  
Finger and hand touch safe, DGUV VS3, EN 50274

**Busbar material thickness**  
0.8 mm - 2 mm

**Lifespan, mechanical**  
20000 operations

**Permitted storage and transport temperature - min**  
-35 °C

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

**Heat dissipation per pole, current-dependent**  
0 W

**Equipment heat dissipation, current-dependent**  
5.8 W

**Static heat dissipation, non-current-dependent**  
0 W

**Heat dissipation capacity**  
0 W

**Ambient operating temperature - min**  
-25 °C

**Ambient operating temperature - max**  
60 °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

Permitted storage and transport temperature - max

60 °C

Climatic proofing

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

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.

[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.

## Additional information

[Accessories required](#)

Z-HK 248432

[Features](#)

Residual current circuit breaker

## Resources

[Application notes](#)

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

[Catalogs](#)

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

Additional equipment possible

**Fitted with:**

Interlocking device  
IS/SPE-1TE 101911

**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

**Used with**

Type A  
PF6  
Residual current circuit breakers  
KLV-TC-2 276240 (Compact enclosure)  
Z-FW/LP 248296 (Remote control and automatic switching device)  
Z-RC/AK-2TE 285385 (sealing cover set)

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

**Drawings**

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

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

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

**User guides**

[IL019140ZU](#)

**Wiring diagrams**

[PF7\\_2P](#)

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

[Mas\\_PFIM](#)



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