

# Eaton 286509

Catalog Number: 286509

Eaton Moeller series xPole - PF6/7 RCCB. PF6, 4 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

Product Name	Catalog Number
Eaton Moeller series xPole - PF6/7 RCCB	286509
	Model Code
	PF6-40/4/01
EAN	Product Length/Depth
4015082865092	80 mm
Product Height	Product Width
71 mm	70 mm
Product Weight	Compliances
.32 kg	RoHS conform
Certifications	
IEC/EN 61008	

#### 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

DIN rail

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

#### 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 - 440 V AC

#### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

#### Tripping time

Non-delayed

#### Fitted with:

Interlocking device

IS/SPE-1TE 101911

#### Rated residual making and breaking capacity

500 A

#### Frequency rating

50 Hz

## 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

Four-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

KLK-TC-4 276241 (Compact enclosure) Z-FW/LP 248296  
(Remote control and automatic switching device) Z-RC/AK-4TE  
101062 (sealing cover set)  
Type AC  
Residual current circuit breakers  
PF6

#### Equipment heat dissipation, current-dependent

8.4 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)

70 mm (4 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

4

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 / 400 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

400 V

Rated insulation voltage (Ui)

440 V



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