Specifications

# Eaton 240890

## Catalog Number: 240890

Eaton Moeller series xEffect - FAZ-T MCB. FAZ-T, 3-pole, tripping characteristic: C, rated current In: 6 A




### General specifications

**Product Name**
Eaton Moeller series xEffect - FAZ-T MCB

**Catalog Number**
240890

**EAN**
4015082408909

**Product Length/Depth**
80 mm

**Product Height**
75.5 mm

**Product Width**
54 mm

**Product Weight**
0.33 kg

**Compliances**
RoHS conform

**Certifications**
IEC/EN 60947-2
EN45545-2
IEC 61373

Powering Business Worldwide

## Product specifications

### Used with

Miniature circuit breaker
FAZ-T

### Type

FAZ-T
Miniature circuit breaker

### Special features

Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity

### Application

Switchgear for industrial and advanced commercial applications
xEffect - Switchgear for industrial and advanced commercial applications

### Amperage Rating

6 A

### Features

Additional equipment possible

### 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.

## Resources

### Brochures

eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf

### Catalogs

eaton-xeffect-faz-t-mcb-catalog-ca003035en-en-us.pdf

### Characteristic curve

eaton-xeffect-faz-mcb-characteristic-curve.jpg

eaton-mcb-characteristic-xeffect-faz-t-characteristic-curve.eps

### Declarations of conformity

DA-DC-03_FAZT

### Drawings

eaton-mcb-xeffect-faz-t-dimensions.eps

eaton-xeffect-faz-mcb-dimensions-003.jpg

eaton-xeffect-faz-t-mcb-3d-drawing.jpg

eaton-xeffect-faz-t-mcb-3d-drawing-003.jpg

eaton-mcb-faz-xeffect-faz-3d-drawing-003.eps

eaton-xeffect-faz-t-mcb-3d-drawing-006.jpg

### eCAD model

DA-CE-ETN.FAZT-C6_3

### Installation instructions

IL019140ZU

### mCAD model

faz_3p.dwg

faz_3p.stp

### PEP Eco-passport

EATO-00047-V01.01-EN

### Wiring diagrams

eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg

eaton-mcb-xeffect-faz-wiring-diagram-003.eps

### 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.

### Frame

45 mm

Frequency rating

50 Hz / 60 Hz

Pollution degree

2

Mounting Method

Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715

Degree of protection

IP20

Equipment heat dissipation, current-dependent

4.4 W

Rated impulse withstand voltage (Uimp)

4 kV

Busbar material thickness

0.8 mm (except N 0.5 SU)

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

Terminals (top and bottom)

Twin-purpose terminals

Tripping characteristic

C

Ambient operating temperature - max

75 °C

Ambient operating temperature - min

-25 °C

Built-in depth

70.5 mm

Connectable conductor cross section (multi-wired) - max

25 mm²

Connectable conductor cross section (multi-wired) - min

1 mm²

Connectable conductor cross section (solid-core) - max

25 mm²

Connectable conductor cross section (solid-core) - min

1 mm²

Current limiting class

3

Enclosure width

80 mm

Frequency rating - max

60 Hz

Frequency rating - min

50 Hz

Heat dissipation capacity

0 W

Heat dissipation per pole, current-dependent

0 W

Direction of incoming supply

As required

Voltage rating (IEC/EN 60898-1)

400 VAC

Width in number of modular spacings

3

Voltage rating (IEC/EN 60947-2)

440 V

Voltage type

AC

Mounting position

As required

Lifespan, mechanical

10000 operations

Overvoltage category

III

Number of poles

Three-pole

Lifespan, electrical

4000 operations

Release characteristic

C

Mounting width

17.5 mm

Mounting width per pole

17.5 mm

Number of poles (protected)

3

Number of poles (total)

3

Operational voltage (IEC/EN 60947-2) - max

440 VAC

Operational voltage at DC (EC/EN 60947-2) - max

60 VDC

Rated insulation voltage (Ui)

440 V

Rated operational current for specified heat dissipation (In)

6 A

Rated operational voltage (Ue) - max

440 V

Rated service short-circuit breaking capacity (IEC/EN 60898-1)

7.5 kA

Rated service short-circuit breaking capacity (IEC/EN 60947-2)

12.5 kA

Rated short-circuit breaking capacity (EN 60898) at 230 V

15 kA

Rated short-circuit breaking capacity (EN 60898) at 400 V

15 kA

Rated short-circuit breaking capacity (IEC 60947-2) at 230 V

25 kA

Rated short-circuit breaking capacity (IEC 60947-2) at 400 V

25 kA

Rated switching capacity (IEC/EN 60898-1)

15 kA

Rated switching capacity (IEC/EN 60947-2)

25 kA

Rated switching capacity (IEC/EN 60947-2) at max voltage rating

25 kA

Static heat dissipation, non-current-dependent

0 W

Terminal capacity

1 mm² - 25 mm²

Tightening torque

Max. 2.4 Nm

Power loss

4.4 W

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