Specifications

# Eaton 278744

## Catalog Number: 278744

Eaton Moeller series xEffect - FAZ MCB. FAZ, 2-pole, tripping characteristic: C, rated current In: 0.75 A, rated switching capacity (IEC/EN 60947-2): 15 kA




### General specifications

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

**Catalog Number**
278744

**EAN**
4015082787448

**Product Length/Depth**
80 mm

**Product Height**
75.5 mm

**Product Width**
36 mm

**Product Weight**
0.223 kg

**Compliances**
UL CSA09 (with supplementary protector only)
RoHS conform

**Certifications**
CE marking
UL 1077
CSA (File No. 204453)
UL (File No. E177451)
North America (UL recognized, CSA certified)
IEC/EN 60898
CSA (Class No. 3215-30)
IEC/EN 60947-2
UL (Category Control Number QVNU2, QVNU8)
CSA-C22.2 No. 235
EN45545-2
IEC 61373

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## Product specifications

### Used with

Miniature circuit breaker
FAZ

### Type

FAZ
Miniature circuit breaker

### Special features

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

### Application

Branch circuits, not as BCPD
Switchgear for industrial and advanced commercial applications
xEffect - Switchgear for industrial and advanced commercial applications

### Amperage Rating

0.75 A

### Voltage rating

240 V AC / 415 V AC

### 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.

## Resources

### Catalogs

eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf

### Characteristic curve

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

### Declarations of conformity

DA-DC-03_FAZ-B-C-D

### Drawings

eaton-xeffect-faz-mcb-dimensions-002.jpg

eaton-xeffect-faz-mcb-3d-drawing-010.jpg

eaton-xeffect-faz-mcb-3d-drawing-009.jpg

eaton-mcb-faz-xeffect-faz-3d-drawing-002.eps

eaton-xeffect-faz-mcb-3d-drawing-002.jpg

### eCAD model

ETN.FAZ-C0,75_2.edz

### Installation instructions

IL019140ZU

### mCAD model

eaton-faz_mcb_2p-3d-model.stp

eaton-faz_mcb_2p-drawing.dwg

### PEP Eco-passport

EATO-00047-V01.01-EN

### Wiring diagrams

eaton-xpole-mmc4-6-m-mcb-wiring-diagram-003.jpg

eaton-mcb-xeffect-faz-wiring-diagram-002.eps

### 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.

Pollution degree

2

Degree of protection

UL/CSA Type: -

IP20

IP20 (IEC)

Equipment heat dissipation, current-dependent

2.6 W

Rated impulse withstand voltage (Uimp)

4 kV

Breaking capacity

10 kA (UL1077)

Tripping characteristic

C

Voltage rating (UL CSA 13)

480 Y/277 V AC; 96 V DC

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

Frequency rating - max

60 Hz

Frequency rating - min

50 Hz

Heat dissipation capacity

0 W

Heat dissipation per pole, current-dependent

0 W

Voltage rating (IEC/EN 60898-1)

415 VAC

Width in number of modular spacings

2

Voltage rating (UL)

480Y/277 V

Voltage type

AC

Overvoltage category

III

Number of poles

Two-pole

Release characteristic

C

Number of poles (protected)

2

Number of poles (total)

2

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

440 VAC

Rated insulation voltage (Ui)

440 V

Rated operational current for specified heat dissipation (In)

0.75 A

Rated operational voltage (Ue) - max

400 V

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

7.5 kA

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

7.5 kA

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

10 kA

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

10 kA

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

15 kA

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

15 kA

Rated switching capacity (IEC/EN 60898-1)

10 kA

Rated switching capacity (IEC/EN 60947-2)

15 kA

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

10 kA

Static heat dissipation, non-current-dependent

0 W

Power loss

5.6 W

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