

# Eaton 278856

Catalog Number: 278856

Eaton Moeller series xEffect - FAZ MCB. FAZ, 3-pole, tripping characteristic: C, rated current In: 0.5 A

## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller series xEffect - FAZ MCB	278856
<b>Model Code</b>	<b>EAN</b>
FAZ-C0,5/3	4015082788568
<b>Product Length/Depth</b>	<b>Product Height</b>
80 mm	75.5 mm
<b>Product Width</b>	<b>Product Weight</b>
54 mm	0.332 kg
<b>Compliances</b>	<b>Certifications</b>
UL CSA09 (with supplementary protector only)	CSA-C22.2 No. 235
RoHS conform	IEC/EN 60947-2
	UL (Category Control Number QVNU2, QVNU8)
	IEC/EN 60898
	CSA (Class No. 3215-30)
	CSA (File No. 204453)
	North America (UL recognized, CSA certified)
	CE marking
	UL 1077
	UL (File No. E177451)
	EN45545-2
	IEC 61373

## Product specifications

Rated operational current for specified heat dissipation (In)

0.5 A

### 10.11 Short-circuit rating

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

Voltage rating (IEC/EN 60898-1)

415 VAC

### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

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

10 kA

### 10.12 Electromagnetic compatibility

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

### Mounting Method

Top-hat rail IEC/EN 60715

### Current limiting class

3

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

10 kA

### Amperage Rating

0.5 A

### 10.2.5 Lifting

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

Terminal capacity of screw terminals for main cable

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

### Frequency rating - max

60 Hz

### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

### 10.8 Connections for external conductors

Is the panel builder's responsibility.

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

15 kA

Number of poles (total)

## Resources

Certification reports

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

Characteristic curve

122U024

122U051

122U023

KL\_FAZ\_trip\_B\_C\_D

122U025

[eaton-mcb-tripping-characteristic-xeffect-faz-characteristic-curve-002.eps](#)

[eaton-mcb-xeffect-faz-characteristic-curve.eps](#)

[eaton-xeffect-faz-mcb-characteristic-curve.jpg](#)

[eaton-mcb-xeffect-faz-characteristic-curve-002.eps](#)

[eaton-mcb-current-xeffect-faz-characteristic-curve-002.eps](#)

[eaton-mcb-current-xeffect-faz-characteristic-curve.eps](#)

122U026

Drawings

1220DIM-56

[eaton-mcb-xeffect-faz-dimensions-003.eps](#)

[eaton-xeffect-faz-mcb-dimensions-003.jpg](#)

Mas\_FAZ\_3

FAZ\_i2t\_C

122I085

[eaton-xeffect-faz-mcb-3d-drawing-002.jpg](#)

[eaton-mcb-faz-xeffect-faz-3d-drawing-003.eps](#)

[eaton-xeffect-faz-mcb-3d-drawing-010.jpg](#)

FAZ\_idl\_C

FAZ\_idl\_C\_60947

[eaton-xeffect-faz-mcb-3d-drawing-009.jpg](#)

eCAD model

DA-CE-ETN.FAZ-C0,5\_3

Installation instructions

IL019140ZU

mCAD model

DA-CS-faz\_3p

DA-CD-faz\_3p

Wiring diagrams

3

[eaton-mcb-xeffect-faz-wiring-diagram-003.eps](#)

#### Terminal protection

[eaton-xpole-mm4-6-m-mcb-wiring-diagram-005.jpg](#)

Finger and hand touch safe, DGUV VS3, EN 50274

PLS\_3P

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

122S102

15 kA

#### Special features

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

#### Ambient operating temperature - max

75 °C

#### Heat dissipation per pole, current-dependent

0 W

#### Built-in depth

70.5 mm

#### Rated switching capacity (IEC/EN 60898-1)

10 kA

#### Features

Additional equipment possible

#### Lifespan, electrical

10000 operations

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

10 kA

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

1 mm<sup>2</sup>

#### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### Number of poles

Three-pole

#### 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.

#### Selectivity class

3

#### 10.5 Protection against electric shock

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

#### Terminal capacity (control cable)

25 mm<sup>2</sup> (1x)

#### Used with

FAZ

Miniature circuit breaker

#### Mounting position

As required

#### Equipment heat dissipation, current-dependent

3.5 W

#### Tripping characteristic

C

#### Frequency rating - min

50 Hz

#### 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

Branch circuits, not as BCPD

Switchgear for industrial and advanced commercial applications

xEffect - Switchgear for industrial and advanced commercial applications

#### 10.3 Degree of protection of assemblies

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

#### Voltage type

AC

#### Number of poles (protected)

3

#### Frame

45 mm

#### Terminals (top and bottom)

Twin-purpose terminals

Heat dissipation capacity

0 W

Release characteristic

C

Width in number of modular spacings

3

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.

Enclosure width

80 mm

Voltage rating

240 V AC / 415 V AC

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

Connectable conductor cross section (solid-core) - max

25 mm<sup>2</sup>

Degree of protection

UL/CSA Type: -

IP20

IP20 (IEC)

IP40 (when fitted)

Overvoltage category

III

Pollution degree

2

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Connectable conductor cross section (multi-wired) - min

1 mm<sup>2</sup>

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

4 kV

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

440 VAC

#### 10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

#### Voltage rating at DC

60 V DC (per pole)

#### Admissible back-up fuse - max

125 A gL/gG

#### Voltage rating (UL)

480Y/277 V

#### Rated switching capacity (IEC/EN 60947-2)

15 kA

#### Voltage rating (UL CSA 13)

480 Y/277 V AC

#### Connectable conductor cross section (multi-wired) - max

25 mm<sup>2</sup>

#### Mounting width per pole

17.5 mm

#### Type

FAZ

Miniature circuit breaker

#### 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.

#### Operational switching capacity

7.5 kA

#### Breaking capacity

10 kA (UL1077)

#### Direction of incoming supply

As required

#### Rated operational voltage (Ue) - max

400 V

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

7.5 kA

Mounting width

17.5 mm

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

7.5 kA

Rated insulation voltage (Ui)

440 V



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