

# Eaton 102208

Catalog Number: 102208

Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. FAZ-RT, 2-pole, tripping characteristic: C, rated current In: 13 A

### General specifications



#### Product Name

Eaton Moeller series xEffect - FAZ-NA,  
FAZ-RT MCB

#### Catalog Number

102208

#### EAN

4015081020843

#### Product Length/Depth

105 mm

#### Product Height

75.5 mm

#### Product Width

35.4 mm

#### Product Weight

0.247 kg

#### Compliances

RoHS conform

#### Certifications

IEC/EN 60947-2

UL (Category Control Number DIVQ)

UL 489

North America (UL listed, CSA certified)

CSA-C22.2 No. 5-09

CSA (File No. 204453)

CSA (Class No. 1432-01)

UL (File No. E235139)

UL 489, CSA C22.2 No. 5

IEC 60947-2

Specially designed for North America,  
suitable as BCPD

CE marking

EN45545-2

IEC 61373

## Delivery program

### Application

Feeder circuits, branch circuits  
Switchgear for industrial and advanced commercial applications  
xEffect - Switchgear for industrial and advanced commercial applications

### Number of poles

Two-pole

### Number of poles (total)

2

### Number of poles (protected)

2

### Tripping characteristic

C

### Release characteristic

C

### Amperage Rating

13 A

### Type

FAZ-RT  
Miniature circuit breaker

## Technical data - electrical

### Voltage type

AC

### Voltage rating

277 V AC / 480 V AC

### Voltage rating at DC

60 V DC

### Voltage rating (IEC/EN 60947-2)

440 V

### Voltage rating (UL)

480Y/277 V

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

415 V

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

440 V

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

4 kV

### Frequency rating - min

50 Hz

### Frequency rating - max

60 Hz

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

15 kA

### Breaking capacity

10 kA (UL489)

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

0 kA

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

0 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

### Selectivity class

3

### Overvoltage category

III

Pollution degree

2

Lifespan, electrical

20000 operations

Direction of incoming supply

As required

## Technical data - mechanical

Frame

45 mm

Enclosure width

105 mm

Width in number of modular spacings

2

Built-in depth

70.5 mm

Mounting width per pole

17.7 mm

Mounting width

17.7 mm

Mounting Method

Top-hat rail IEC/EN 60715

Mounting position

As required

Degree of protection

IP20 (IEC)

IP20

UL/CSA Type: -

IP40 (when fitted)

Terminals (top and bottom)

Twin-purpose terminals

Connectable conductor cross section (solid-core) - min

1 mm<sup>2</sup>

Connectable conductor cross section (solid-core) - max

25 mm<sup>2</sup>

Connectable conductor cross section (multi-wired) - min

1 mm<sup>2</sup>

Connectable conductor cross section (multi-wired) - max

25 mm<sup>2</sup>

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

Tightening torque

Max. 2.4 Nm

UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8

UL: 4 Nm (36 lb-in) for AWG 6  
UL: 2.4 Nm (21 lb-in) for AWG 18 - AWG 12

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

Rated operational current for specified heat dissipation (I<sub>n</sub>)

13 A

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

4.7 W

Static heat dissipation, non-current-dependent

0 W

Heat dissipation capacity

0 W

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

75 °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.

## Additional information

Current limiting class

3

Features

Additional equipment possible

Functions

Current limiting circuit breaker

Special features

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

Used with

FAZ-RT

Miniature circuit breaker

## Resources

Brochures

[eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf](#)

Catalogs

[eaton-xeffect-faz-na-rt-mcb-catalog-ca003032en-en-us.pdf](#)

### 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.

### 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.

### Characteristic curve

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

[eaton-xeffect-faz-na,-mcb-dimensions-005.jpg](#)

[eaton-xeffect-faz-na,-mcb-characteristic-curve-002.jpg](#)

[eaton-xeffect-faz-na,-mcb-3d-drawing-006.jpg](#)

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

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

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

### Declarations of conformity

[DA-DC-03\\_FAZ-RT](#)

[DA-DC-03\\_FAZ-B-C-D](#)

### Drawings

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

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

### eCAD model

[DA-CE-ETN.FAZ-C13\\_2-RT](#)

### Installation instructions

[IL019133ZU](#)

### mCAD model

[faz\\_na\\_2p.stp](#)

[faz\\_na\\_2p.dwg](#)

### Wiring diagrams

[eaton-xpole-mm4-6-m-mcb-wiring-diagram-002.jpg](#)

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



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Dublin 4, Ireland  
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