

# Eaton 132747

Catalog Number: 132747

Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. Miniature circuit breaker (MCB), 32 A, 1p, characteristic: B, ring tongue

General specifications



Product Name	Catalog Number
Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB	132747
	EAN
	4015081296965
Product Length/Depth	Product Height
105 mm	75.5 mm
Product Width	Product Weight
17.7 mm	0.13 kg
Compliances	Certifications
RoHS conform	CSA (File No. 204453)
	IEC 60947-2
	North America (UL listed, CSA certified)
	CE marking
	IEC/EN 60947-2
	CSA-C22.2 No. 5-09
	UL (Category Control Number DIVQ)
	UL (File No. E235139)
	CSA (Class No. 1432-01)
	UL 489, CSA C22.2 No. 5
	UL 489
	Specially designed for North America, suitable as BCPD
	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

Single-pole

### Number of poles (total)

1

### Number of poles (protected)

1

### Tripping characteristic

B

### Release characteristic

B

### Amperage Rating

32 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)

254 V

### Voltage rating (UL)

277 V

### Rated operational voltage (Ue) - max

240 V

### Rated insulation voltage (Ui)

440 V

### Rated impulse withstand voltage (Uimp)

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

1

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

IP40 (when fitted)

IP20

UL/CSA Type: -

IP20 (IEC)

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: 4 Nm (36 lb-in) for AWG 6

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

32 A

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

3.4 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-xeffect-faz-na,-mcb-dimensions-002.jpg](#)

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

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

### Declarations of conformity

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

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

### Drawings

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

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

### eCAD model

[DA-CE-ETN.FAZ-B32\\_1-RT](#)

### Installation instructions

[IL019133ZU](#)

### mCAD model

[faz\\_na\\_1p.stp](#)

[faz\\_na\\_1p.dwg](#)

### Wiring diagrams

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

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



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