Specifications

# Eaton 190792

## Catalog Number: 190792

Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. Miniature circuit breaker (MCB), 63 A, 3p, characteristic: C, NA




### General specifications

**Product Name**
Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB

**Catalog Number**
190792

**EAN**
4015081930623

**Product Length/Depth**
105 mm

**Product Height**
75.5 mm

**Product Width**
53.1 mm

**Product Weight**
0.382 kg

**Compliances**
RoHS conform

**Certifications**
CE marking
IEC 60947-2
UL 489
CSA (File No. 204453)
North America (UL listed, CSA certified)
IEC/EN 60947-2
CSA-C22.2 No. 5-09
UL (File No. E235139)
Specially designed for North America, suitable as BCPD
UL (Category Control Number DIVQ)
UL 489, CSA C22.2 No. 5
CSA (Class No. 1432-01)
EN45545-2
IEC 61373

Powering Business Worldwide

## Delivery program

### Application

Feeder circuits, branch circuits
Switchgear for export to North America (UL-listed)
xEffect - Switchgear for industrial and advanced commercial applications

### Number of poles

Three-pole

### Number of poles (total)

3

### Number of poles (protected)

3

### Tripping characteristic

C

### Release characteristic

C

### Amperage Rating

63 A

### Type

FAZ-NA
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)

240 V AC / 415 V AC

### Voltage rating (UL)

240 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

### Operational switching capacity

7.5 kA

### Breaking capacity

10 kA (UL489)

### 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

10 kA

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

14 kA

### Admissible back-up fuse - max

125 A gL/gG

### Selectivity class

3

### Overvoltage category

III

### Pollution degree

2

### Lifespan, electrical

min. 6000 operations (UL)

min. 1500 operations

### Direction of incoming supply

As required

## Technical data - mechanical

### Frame

45 mm

### Enclosure width

105 mm

### Width in number of modular spacings

3

### Built-in depth

60 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)

IP40 (when fitted)

UL/CSA Type: -

IP20

### Terminals (top and bottom)

Lift terminal / ring-tongue

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

1 mm²

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

25 mm²

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

1 mm²

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

25 mm²

### Terminal capacity of screw terminals for main cable

10 mm² (2x)

### Terminal capacity (control cable)

25 mm² (1x)

### Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

### Contact position indicator color

Red / green

### 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

### Lifespan, mechanical

10000 operations

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

### Rated operational current for specified heat dissipation (In)

63 A

### Heat dissipation per pole, current-dependent

0 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

### Ambient operating temperature (UL) - min

-5 °C

### Ambient operating temperature (UL) - max

40 °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.

## Additional information

### Accessories required

Z-IHK-NA 113895

### Current limiting class

3

### Features

Additional equipment possible

### Fitted with:

Z-IS/SPE-1TE 274418

### Functions

Current limiting circuit breaker

### Internal resistance at room temperature (single-pole, 50 Hz)

1.2 m Ω

### Special features

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

### 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.

### 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.

Tripping signal contact for subsequent installation Z-NHK 248434

### Suitable for

Flush-mounted installation

### Used with

FAZ-XAA-NA110-415V AC 102036 (Shunt trip release) FAZ-XAA-NA12-110V AC 102037 (Shunt trip release)
Miniature circuit breaker
FAZ-NA
FAZ-XAA-NA110-415V AC 102036 (Shunt trip release)
FAZ-XAA-NA12-110V AC 102037 (Shunt trip release)

## Resources

### Brochures

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

### Catalogs

eaton-xeffect-faz-na-rt-mcb-catalog-ca003032en-en-us.pdf

### Characteristic curve

eaton-xeffect-faz-na,-mcb-3d-drawing-003.jpg

eaton-mcb-xeffect-faz-na,-characteristic-curve.eps

eaton-xeffect-faz-na,-mcb-3d-drawing-007.jpg

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

eaton-mcb-xeffect-faz-na,-characteristic-curve-002.eps

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-NA

### Drawings

eaton-xeffect-faz-na,-mcb-dimensions.jpg

### eCAD model

ETN.FAZ-C63_3-NA.edz

### Installation instructions

IL019133ZU

### mCAD model

DA-CD-faz_na_3p

DA-CS-faz_na_3p

Wiring diagrams

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

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