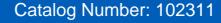
Eaton 102311



Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. FAZ-RT, 3-pole, tripping characteristic: D, rated current In: 20 A

General specifications

Product Name Catalog Number

Eaton Moeller series xEffect - FAZ-NA, 102311

FAZ-RT MCB

EAN

4015081021871

Product Length/Depth Product Height

105 mm 75.5 mm

Product Width Product Weight

53.1 mm 0.371 kg

Compliances Certifications

RoHS conform IEC 60947-2 UL 1077

CSA Std. C22.2 No.235 UL 489, CSA C22.2 No. 5

UL 489

CSA-C22.2 No. 5-09

North America (UL listed, CSA certified)

IEC/EN 60947-2

UL (Category Control Number DIVQ)
Specially designed for North America,

suitable as BCPD CE marking

UL (File No. E235139) CSA (File No. 204453)

CSA (Class No. 1432-01)

EN45545-2 IEC 61373





Catalog Notes

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

Three-pole

Number of poles (total)

3

Number of poles (protected)

3

Tripping characteristic

D

Release characteristic

D

Amperage Rating

20 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)

415 V

Voltage rating (UL)

480Y/277 V

Rated operational voltage (Ue) - max

415 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

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

Ш

Pollution degree

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

3

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

UL/CSA Type: -

IP40 (when fitted)

IP20

IP20 (IEC)

Terminals (top and bottom)

Twin-purpose terminals

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 protection

Finger and hand touch safe, DGUV VS3, EN 50274

Tightening torque

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

Max. 2.4 Nm

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

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

Design verification as per IEC/EN - technical data

Rated operational current for specified heat dissipation (In)

20 A

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

5.5 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

Industrial miniature circuit breakers UL 489

Catalogs

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.

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

Characteristic curve

eaton-xeffect-faz-na,-mcb-dimensions-003.jpg
eaton-xeffect-faz-na,-mcb-3d-drawing-010.jpg
eaton-mcb-xeffect-faz-na,-characteristic-curve-003.eps
eaton-xeffect-faz-na,-mcb-3d-drawing-009.jpg
eaton-xeffect-faz-na,-mcb-characteristic-curve-002.jpg
eaton-mcb-xeffect-faz-na,-characteristic-curve-004.eps
eaton-xeffect-faz-na,-mcb-characteristic-curve.jpg

Declarations of conformity

DA-DC-03_FAZ-RT

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

DA-DC-03_FAZ-DU

Drawings

eaton-xeffect-faz-na,-mcb-dimensions.jpg eaton-mcb-xeffect-faz-na,-3d-drawing-002.eps

eCAD model

ETN.FAZ-D20_3-RT

Installation instructions

IL019133ZU

mCAD model

DA-CD-faz_na_3p

DA-CS-faz_na_3p

Specifications and datasheets

Product Data Sheet - FAZ-D20/3-RT

Wiring diagrams

eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg eaton-mcb-xeffect-faz-na,-wiring-diagram-002.eps



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