Product specifications

Eaton 132681

Catalog Number: 132681

Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. Miniature circuit breaker (MCB), 7 A, 1p, characteristic: B UL

General specifications

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

Catalog Number
132681

Model Code
FAZ-B7/1-NA

EAN
4015081296309

Product Length/Depth
105 mm

Product Height
75.5 mm

Product Width
17.7 mm

Product Weight
0.121 kg

Compliances
RoHS conform

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

Powering Business Worldwide

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Type

FAZ-NA
Miniature circuit breaker

Special features

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

Application

Feeder circuits, branch circuits
Switchgear for export to North America (UL-listed)

Amperage Rating

7 A

Voltage rating

277 V AC / 480 V AC

Features

Additional equipment possible

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.

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.

Resources

Brochures

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

Catalogs

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

Certification reports

DA-DC-03_FAZ-NA

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

Characteristic curve

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

eaton-xeffect-faz-na,-mcb-dimensions-002.jpg

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

Drawings

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

eCAD model

DA-CE-ETN.FAZ-B7_1-NA

Installation instructions

IL019133ZU

mCAD model

faz_na_1p.dwg

faz_na_1p.stp

Wiring diagrams

eaton-mcb-xeffect-faz-na,-wiring-diagram.eps

eaton-xpole-mmc4-6-m-mcb-wiring-diagram-002.jpg

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.

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.

Frame

45 mm

Pollution degree

2

Used with

FAZ-NA

Miniature circuit breaker

Mounting Method

Top-hat rail IEC/EN 60715

Degree of protection

IP20

IP40 (when fitted)

UL/CSA Type: -

IP20 (IEC)

Equipment heat dissipation, current-dependent

2 W

Rated impulse withstand voltage (Uimp)

4 kV

Breaking capacity

10 kA (UL489)

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

Terminals (top and bottom)

Twin-purpose terminals

Tripping characteristic

B

Ambient operating temperature - max

75 °C

Ambient operating temperature - min

-25 °C

Built-in depth

70.5 mm

Connectable conductor cross section (multi-wired) - max

25 mm²

Connectable conductor cross section (multi-wired) - min

1 mm²

Connectable conductor cross section (solid-core) - max

25 mm²

Connectable conductor cross section (solid-core) - min

1 mm²

Current limiting class

3

Enclosure width

105 mm

Frequency rating - max

60 Hz

Frequency rating - min

50 Hz

Heat dissipation capacity

0 W

Heat dissipation per pole, current-dependent

0 W

Direction of incoming supply

As required

Width in number of modular spacings

1

Voltage rating (IEC/EN 60947-2)

254 V

Voltage rating (UL)

277 V

Voltage rating at DC

60 V DC

Voltage type

AC

Mounting position

As required

Overvoltage category

III

Number of poles

Single-pole

Functions

Current limiting circuit breaker

Lifespan, electrical

20000 operations

Release characteristic

B

Mounting width

17.7 mm

Selectivity class

3

Mounting width per pole

17.7 mm

Number of poles (protected)

1

Number of poles (total)

1

Rated insulation voltage (Ui)

440 V

Rated operational current for specified heat dissipation (In)

7 A

Rated operational voltage (Ue) - max

240 V

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

Rated switching capacity (IEC/EN 60947-2)

15 kA

Static heat dissipation, non-current-dependent

0 W

Tightening torque

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

Power loss

2 W

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Dublin 4, Ireland
Eaton.com

Eaton.com/socialmedia