Specifications

Eaton 278581

Catalog Number: 278581

Eaton Moeller series xEffect - FAZ MCB. FAZ, 1-pole, tripping characteristic: D, rated current In: 12 A



General specifications

Product Name
Eaton Moeller series xEffect - FAZ MCB

Catalog Number
278581

EAN
4015082785819

Product Length/Depth
80 mm

Product Height
75.5 mm

Product Width
17.7 mm

Product Weight
0.11 kg

Compliances
UL CSA09 (with supplementary protector only)
RoHS conform

Certifications
CE marking
CSA-C22.2 No. 235
IEC/EN 60898
UL 1077
UL (Category Control Number QVNU2, QVNU8)
North America (UL recognized, CSA certified)
CSA (File No. 204453)
UL (File No. E177451)
CSA (Class No. 3215-30)
IEC/EN 60947-2
EN45545-2
IEC 61373

Powering Business Worldwide

Product specifications

Used with

FAZ

Miniature circuit breaker

Type

FAZ

Miniature circuit breaker

Special features

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

Application

Branch circuits, not as BCPD

Switchgear for industrial and advanced commercial applications

xEffect - Switchgear for industrial and advanced commercial applications

Amperage Rating

12 A

Voltage rating

240 V AC / 415 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.

Resources

Catalogs

eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf

Characteristic curve

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

Declarations of conformity

DA-DC-03_FAZ-DU

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

Drawings

eaton-xeffect-faz-mcb-dimensions.jpg

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

eaton-xeffect-faz-mcb-3d-drawing-012.jpg

eaton-xeffect-faz-mcb-3d-drawing-011.jpg

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

eCAD model

ETN.FAZ-D12_1.edz

Installation instructions

IL019140ZU

mCAD model

eaton-faz_mcb_1p-drawing.dwg

eaton-faz_mcb_1p-3d-model.stp

PEP Eco-passport

EATO-00047-V01.01-EN

Wiring diagrams

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

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

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.

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.

Pollution degree

2

Degree of protection

IP20

UL/CSA Type: -

IP20 (IEC)

Equipment heat dissipation, current-dependent

1.7 W

Rated impulse withstand voltage (Uimp)

4 kV

Tripping characteristic

D

Voltage rating (UL CSA 13)

277 V AC; 48 V DC

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

Frequency rating - max

60 Hz

Frequency rating - min

50 Hz

Heat dissipation capacity

0 W

Heat dissipation per pole, current-dependent

0 W

Width in number of modular spacings

1

Voltage type

AC

Overvoltage category

III

Number of poles

Single-pole

Release characteristic

D

Number of poles (protected)

1

Number of poles (total)

1

Rated insulation voltage (Ui)

440 V

Rated operational current for specified heat dissipation (In)

12 A

Rated operational voltage (Ue) - max

230 V

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

10 kA

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

10 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

Power loss

1.7 W



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