Product specifications

Eaton 278538

Catalog Number: 278538

Eaton Moeller series xEffect - FAZ MCB. FAZ, 1-pole, tripping characteristic: B, rated current In: 32 A

General specifications

Product Name	**Catalog Number**
Eaton Moeller series xEffect - FAZ MCB	278538
Model Code	**EAN**
FAZ-B32/1	4015082785383
Product Length/Depth	**Product Height**
80 mm	75.5 mm
Product Width	**Product Weight**
17.7 mm	0.118 kg

Compliances

UL CSA09 (with supplementary protector only)
RoHS conform

Certifications

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

Product specifications

Rated operational current for specified heat dissipation (In)

32 A

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Voltage rating (IEC/EN 60898-1)

240 VAC

10.4 Clearances and creepage distances

Meets the product standard's requirements.

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

10 kA

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Mounting Method

Top-hat rail IEC/EN 60715

Current limiting class

3

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

10 kA

Amperage Rating

32 A

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

Terminal capacity of screw terminals for main cable

10 mm² (2x)

Frequency rating - max

60 Hz

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.8 Connections for external conductors

Is the panel builder's responsibility.

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

15 kA

Number of poles (total)

Resources

Catalogs

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

Certification reports

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

Characteristic curve

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

eaton-mcb-tripping-characteristic-xeffect-faz-characteristic-curve-002.eps

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

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

eaton-mcb-current-xeffect-faz-characteristic-curve.eps

eaton-mcb-current-xeffect-faz-characteristic-curve-002.eps

Drawings

eaton-xeffect-faz-mcb-dimensions.jpg

eaton-mcb-xeffect-faz-dimensions.eps

eaton-xeffect-faz-mcb-3d-drawing-008.jpg

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

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

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

eCAD model

DA-CE-ETN.FAZ-B32_1

Installation instructions

IL019140ZU

mCAD model

DA-CD-faz_1p

DA-CS-faz_1p

PEP Eco-passport

EATO-00047-V01.01-EN

Specifications and datasheets

Eaton Specification Sheet - 278538

Wiring diagrams

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

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

1

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

Rated short-circuit breaking capacity (IEC 60947-2) at 230 V

15 kA

Special features

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

Ambient operating temperature - max

75 °C

Heat dissipation per pole, current-dependent

0 W

Built-in depth

70.5 mm

Rated switching capacity (IEC/EN 60898-1)

10 kA

Features

Additional equipment possible

Lifespan, electrical

10000 operations

Rated switching capacity (IEC/EN 60947-2) at max voltage rating

10 kA

Connectable conductor cross section (solid-core) - min

1 mm²

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

Number of poles

Single-pole

Ambient operating temperature - min

-25 °C

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

Selectivity class

3

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

Terminal capacity (control cable)

25 mm² (1x)

Used with

Miniature circuit breaker

FAZ

Mounting position

As required

Equipment heat dissipation, current-dependent

3.7 W

Tripping characteristic

B

Frequency rating - min

50 Hz

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

Static heat dissipation, non-current-dependent

0 W

Application

Branch circuits, not as BCPD

Switchgear for industrial and advanced commercial applications

xEffect - Switchgear for industrial and advanced commercial applications

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

Voltage type

AC

Number of poles (protected)

1

Frame

45 mm

Terminals (top and bottom)

Twin-purpose terminals

Heat dissipation capacity

0 W

Release characteristic

B

Width in number of modular spacings

1

Busbar material thickness

0.8 mm - 2 mm

Power loss

3.5 W

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.

Enclosure width

80 mm

Voltage rating

240 V AC / 415 V AC

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

Connectable conductor cross section (solid-core) - max

25 mm²

Degree of protection

IP20

IP40 (when fitted)

UL/CSA Type: -

IP20 (IEC)

Overvoltage category

III

Pollution degree

2

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Connectable conductor cross section (multi-wired) - min

1 mm²

Rated impulse withstand voltage (Uimp)

4 kV

Operational voltage (IEC/EN 60947-2) - max

254 VAC

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

Voltage rating at DC

60 V DC (per pole)

Admissible back-up fuse - max

125 A gL/gG

Voltage rating (UL)

277 V

Rated switching capacity (IEC/EN 60947-2)

15 kA

Voltage rating (UL CSA 13)

277 V AC; 48 V DC

Connectable conductor cross section (multi-wired) - max

25 mm²

Mounting width per pole

17.5 mm

Type

FAZ

Miniature circuit breaker

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.7 Inscriptions

Meets the product standard's requirements.

Operational switching capacity

7.5 kA

Breaking capacity

10 kA (UL1077)

Direction of incoming supply

As required

Rated operational voltage (Ue) - max

230 V

Rated service short-circuit breaking capacity (IEC/EN 60898-1)

7.5 kA

Mounting width

17.5 mm

Rated service short-circuit breaking capacity (IEC/EN 60947-2)

7.5 kA

Rated insulation voltage (Ui)

440 V

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