Specifications

Eaton 279142

Catalog Number: 279142

Eaton Moeller series xEffect - FAZ-DC MCB. FAZ-DC, 2-pole, tripping characteristic: C, rated current In: 25 A, Switchgear for DC applications



General specifications

Product Name
Eaton Moeller series xEffect - FAZ-DC MCB

Catalog Number
279142

EAN
4015082791421

Product Length/Depth
80 mm

Product Height
75.5 mm

Product Width
36 mm

Product Weight
0.231 kg

Compliances
RoHS conform

Certifications
IEC/EN 60947-2
EN45545-2
IEC 61373

Powering Business Worldwide

Delivery program

Application

Switchgear for DC applications

Number of poles

Two-pole

Number of poles (total)

2

Number of poles (protected)

2

Tripping characteristic

C

Release characteristic

C

Amperage Rating

25 A

Type

FAZ-DC

Miniature circuit breaker

Technical data - electrical

Voltage type

DC

Voltage rating at DC

250 V DC (per pole)

Rated operational voltage (Ue) - max

250 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)

10 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

10 kA

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

10 kA

Admissible back-up fuse - max

100 A gL/gG

Selectivity class

3

Overvoltage category

III

Pollution degree

2

Lifespan, electrical

10000 operations

Direction of incoming supply

Polarity dependent

Technical data - mechanical

Frame

45 mm

Enclosure width

80 mm

Width in number of modular spacings

2

Built-in depth

70.5 mm

Mounting width per pole

17.5 mm

Mounting width

17.5 mm

Mounting Method

Top-hat rail IEC/EN 60715

Mounting position

As required

Degree of protection

IP40 (when fitted)

IP20

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 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

Busbar material thickness

0.8 mm - 2 mm

Design verification as per IEC/EN 61439 - technical data

Rated operational current for specified heat dissipation (In)

25 A

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

6.4 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

Additional information

Current limiting class

3

Features

Additional equipment possible

Special features

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

Used with

FAZ-DC

Miniature circuit breaker

Resources

Brochures

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

Catalogs

eaton-xeffect-faz-dc-mcb-catalog-ca003030en-en-us.pdf

Characteristic curve

eaton-xeffect-faz-dc-mcb-characteristic-curve-002.jpg

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.

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

Declarations of conformity

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

DA-DC-03_FAZ-DC

Drawings

eaton-xeffect-faz-dc-mcb-dimensions-002.jpg

eaton-mcb-xeffect-faz-dimensions-002.eps

eCAD model

ETN.FAZ-C25_2-DC.edz

Installation instructions

IL019140ZU

mCAD model

faz_1pn_2p.dwg

faz_1pn_2p.stp

Wiring diagrams

eaton-xeffect-faz-dc-mcb-wiring-diagram-002.jpg



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