

Eaton 278748

Catalog Number: 278748

Eaton Moeller series xEffect - FAZ MCB. FAZ, 2-pole, tripping characteristic: C, rated current In: 2 A



Photo is representative

General specifications

Product Name	Catalog Number
Eaton Moeller series xEffect - FAZ MCB	278748
Model Code	EAN
FAZ-C2/2	4015082787486
Product Length/Depth	Product Height
80 mm	75.5 mm
Product Width	Product Weight
36 mm	0.226 kg
Compliances	Certifications
UL CSA09 (with supplementary protector only)	UL (Category Control Number QVNU2, QVNU8)
RoHS conform	North America (UL recognized, CSA certified)
	CSA (File No. 204453)
	IEC/EN 60947-2
	CSA (Class No. 3215-30)
	UL (File No. E177451)
	CE marking
	IEC/EN 60898
	UL 1077
	EN45545-2
	IEC 61373

Product specifications

Used with

Miniature circuit breaker

FAZ

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

2 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

122U024

[KL_FAZ_trip_B_C_D](#)

[eaton-mcb-current-xeffect-faz-characteristic-curve-002.eps](#)

[eaton-xeffect-faz-mcb-characteristic-curve.jpg](#)

[eaton-mcb-xeffect-faz-characteristic-curve-002.eps](#)

122U051

[eaton-mcb-current-xeffect-faz-characteristic-curve.eps](#)

122U025

[eaton-mcb-tripping-characteristic-xeffect-faz-characteristic-curve-002.eps](#)

122U026

[eaton-mcb-xeffect-faz-characteristic-curve.eps](#)

122U023

Declarations of conformity

[DA-DC-03_FAZ-B-C-D](#)

Drawings

[eaton-mcb-xeffect-faz-dimensions-002.eps](#)

[Mas_FAZ_2](#)

1220DIM-55

[eaton-xeffect-faz-mcb-dimensions-002.jpg](#)

Drawings

122I084

[eaton-xeffect-faz-mcb-3d-drawing-009.jpg](#)

[FAZ_idl_C_60947](#)

[eaton-xeffect-faz-mcb-3d-drawing-002.jpg](#)

[FAZ_idl_C](#)

[eaton-xeffect-faz-mcb-3d-drawing-010.jpg](#)

[eaton-mcb-faz-xeffect-faz-3d-drawing-002.eps](#)

[FAZ_i2t_C](#)

eCAD model

[ETN.FAZ-C2_2](#)

Installation instructions

[IL019140ZU](#)

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.

mCAD model

eaton-cadenas-path-03-geo-faz_1pn_2p.3db

faz_1pn_2p.dwg

eaton-cadenas-side_view-faz_1pn_2p_side.pra

eaton-cadenas-front_view-faz_1pn_2p_front.pra

faz_1pn_2p.stp

PEP Eco-passport

EATO-00047-V01.01-EN

Wiring diagrams

eaton-xpole-mm4-6-m-mcb-wiring-diagram-003.jpg

122S101

PLS_2P

eaton-mcb-xeffect-faz-wiring-diagram-002.eps

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

Frame

45 mm

Pollution degree

2

Mounting Method

Top-hat rail IEC/EN 60715

Degree of protection

IP20

UL/CSA Type: -

IP20 (IEC)

IP40 (when fitted)

Equipment heat dissipation, current-dependent

2.8 W

Rated impulse withstand voltage (Uimp)

4 kV

Admissible back-up fuse - max

125 A gL/gG

Breaking capacity

10 kA (UL1077)

Busbar material thickness

0.8 mm - 2 mm

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

Terminals (top and bottom)

Twin-purpose terminals

Tripping characteristic

C

Voltage rating (UL CSA 13)

480 Y/277 V AC; 96 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

Enclosure width
80 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

Voltage rating (IEC/EN 60898-1)
415 VAC

Width in number of modular spacings
2

Voltage rating (UL)
480Y/277 V

Voltage rating at DC
60 V DC (per pole)

Voltage type
AC

Mounting position
As required

Overvoltage category
III

Number of poles

Two-pole

Lifespan, electrical

10000 operations

Release characteristic

C

Mounting width

17.5 mm

Selectivity class

3

Mounting width per pole

17.5 mm

Number of poles (protected)

2

Number of poles (total)

2

Operational switching capacity

7.5 kA

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

440 VAC

Rated insulation voltage (Ui)

440 V

Rated operational current for specified heat dissipation (In)

2 A

Rated operational voltage (Ue) - max

400 V

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

7.5 kA

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

7.5 kA

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 60898-1)

10 kA

Rated switching capacity (IEC/EN 60947-2)

15 kA

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

10 kA

Static heat dissipation, non-current-dependent

0 W

Terminal capacity (control cable)

25 mm² (1x)

Terminal capacity of screw terminals for main cable

10 mm² (2x)

Power loss

2.8 W



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