

Eaton 278554

Catalog Number: 278554

Eaton Moeller series xEffect - FAZ MCB. FAZ, 1-pole, tripping characteristic: C, rated current In: 5 A

General specifications

Product Name	Catalog Number
Eaton Moeller series xEffect - FAZ MCB	278554

Model Code	EAN
FAZ-C5/1	4015082785543

Product Length/Depth	Product Height
80 mm	75.5 mm

Product Width	Product Weight
17.7 mm	.111 kg

Compliances	Certifications
UL CSA09 (with supplementary protector only) RoHS conform	North America (UL recognized, CSA certified) IEC/EN 60947-2 UL (Category Control Number QVNU2, QVNU8) CE marking CSA (Class No. 3215-30) CSA (File No. 204453) CSA-C22.2 No. 235 IEC/EN 60898 UL (File No. E177451) UL 1077 EN45545-2 IEC 61373



Product specifications

Rated operational current for specified heat dissipation (In)

5 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.

Current limiting class

3

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

10 kA

Amperage Rating

5 A

10.2.5 Lifting

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

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)

1

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

15 kA

Special features

Resources

Certification reports

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

Characteristic curve

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

[KL_FAZ_trip_B_C_D](#)

Drawings

[Mas_FAZ_1](#)

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

[FAZ_idL_C](#)

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

[FAZ_idL_C_60947](#)

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

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

[FAZ_i2t_C](#)

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

[122I083](#)

eCAD model

[ETN.FAZ-C5_1](#)

Installation instructions

[IL019140ZU](#)

Specifications and datasheets

[Eaton Specification Sheet - 278554](#)

Wiring diagrams

[PLS_1P](#)

[eaton-xpole-mm4-6-m-mcb-wiring-diagram-002.jpg](#)

[eaton-mcb-xeffect-faz-wiring-diagram.eps](#)

[122S100](#)

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

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.

10.5 Protection against electric shock

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

Used with

FAZ

Miniature circuit breaker

Equipment heat dissipation, current-dependent

1.9 W

Tripping characteristic

C

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

Heat dissipation capacity

0 W

Release characteristic

C

Width in number of modular spacings

1

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.

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

IP20 (IEC)

UL/CSA Type: -

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 (U_{imp})

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 (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

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.

Breaking capacity

10 kA (UL1077)

Rated operational voltage (Ue) - max

230 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 insulation voltage (Ui)

440 V



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