

Eaton 241054

Catalog Number: 241054

Eaton Moeller series xEffect - FAZ-T MCB. FAZ-T, 1-pole+N, tripping characteristic: D, rated current In: 6 A



General specifications

Product Name	Catalog Number
Eaton Moeller series xEffect - FAZ-T MCB	241054
	EAN
	4015082410544
Product Length/Depth	Product Height
80 mm	75.5 mm
Product Width	Product Weight
36 mm	0.197 kg
Compliances	Certifications
RoHS conform	IEC/EN 60947-2
	EN45545-2
	IEC 61373

Product specifications

Used with

FAZ-T

Miniature circuit breaker

Type

FAZ-T

Miniature circuit breaker

Special features

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

Application

Switchgear for industrial and advanced commercial applications
xEffect - Switchgear for industrial and advanced commercial applications

Amperage Rating

6 A

Features

Concurrently switching N-neutral
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.

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures

Resources

Brochures

[eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf](#)

Catalogs

[eaton-xeffect-faz-t-mcb-catalog-ca003035en-en-us.pdf](#)

Characteristic curve

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

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

Declarations of conformity

[DA-DC-03_FAZT](#)

Drawings

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

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

[eaton-xeffect-faz-t-mcb-3d-drawing-007.jpg](#)

[eaton-xeffect-faz-t-mcb-3d-drawing-004.jpg](#)

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

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

eCAD model

[DA-CE-ETN.FAZT-D6_1N](#)

Installation instructions

[IL019140ZU](#)

mCAD model

[faz_1pn_2p.stp](#)

[faz_1pn_2p.dwg](#)

PEP Eco-passport

[EATO-00047-V01.01-EN](#)

Wiring diagrams

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

[eaton-mcb-xeffect-faz-wiring-diagram-005.eps](#)

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.

Frame

45 mm

Frequency rating

50 Hz / 60 Hz

Pollution degree

2

Mounting Method

Quick attachment with 3 latch positions for top-hat rail IEC/EN
60715

Degree of protection

IP20

Equipment heat dissipation, current-dependent

1.6 W

Rated impulse withstand voltage (Uimp)

4 kV

Busbar material thickness

0.8 mm (except N 0.5 SU)

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

Terminals (top and bottom)

Twin-purpose terminals

Tripping characteristic

D

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)

230 VAC

Width in number of modular spacings

2

Voltage rating (IEC/EN 60947-2)

240 V AC / 415 V AC

Voltage type

AC

Mounting position

As required

Lifespan, mechanical

10000 operations

Overvoltage category

III

Number of poles

Single-pole + N

Lifespan, electrical

4000 operations

Release characteristic

D

Mounting width

17.5 mm

Mounting width per pole

17.5 mm

Number of poles (protected)

1

Number of poles (total)

2

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

240 VAC

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

60 VDC

Rated insulation voltage (Ui)

440 V

Rated operational current for specified heat dissipation (In)

6 A

Rated operational voltage (Ue) - max

240 V

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

15 kA

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

15 kA

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

25 kA

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

25 kA

Rated switching capacity (IEC/EN 60947-2)

25 kA

Static heat dissipation, non-current-dependent

0 W

Terminal capacity

1 mm² - 25 mm²

Tightening torque

Max. 2.4 Nm

Power loss

1.6 W



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