

Specifications

Photo is representative

Eaton 278774

Eaton Moeller series xEffect - FAZ MCB. FAZ, 2-pole, tripping characteristic: D, rated current In: 3.5 A

General specifications

PRODUCT NAME	Eaton Moeller series xEffect - FAZ MCB
CATALOG NUMBER	278774
MODEL CODE	FAZ-D3,5/2
EAN	4015082787745
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	36 mm
PRODUCT WEIGHT	0.225 kg
COMPLIANCES	UL CSA09 (with supplementary protector only) RoHS conform
CERTIFICATIONS	UL 1077 CSA (Class No. 3215-30) UL (Category Control Number QVNU2, QVNU8) IEC/EN 60947-2 CSA (File No. 204453) North America (UL recognized, CSA certified) UL (File No. E177451) CE marking CSA-C22.2 No. 235 IEC/EN 60898 EN45545-2 IEC 61373

Delivery Programme

APPLICATION

- Branch circuits, not as BCPD
- Switchgear for industrial and advanced commercial applications
- xEffect - Switchgear for industrial and advanced commercial applications

NUMBER OF POLES	Two-pole
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NUMBER OF POLES (TOTAL)	2
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NUMBER OF POLES (PROTECTED)	2
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TRIPPING CHARACTERISTIC	D
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RELEASE CHARACTERISTIC	D
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AMPERAGE RATING	3.5 A
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TYPE	• FAZ • Miniature circuit breaker
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Technical data - electrical

VOLTAGE TYPE	AC
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VOLTAGE RATING	240 V AC / 415 V AC
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VOLTAGE RATING (UL CSA 13)	480 Y/277 V AC; 96 V DC
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RATED OPERATIONAL VOLTAGE (UE) - MAX	400 V
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RATED INSULATION VOLTAGE (UI)	440 V
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RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
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FREQUENCY RATING - MIN	50 Hz
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FREQUENCY RATING - MAX	60 Hz
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RATED SWITCHING CAPACITY (IEC/EN 60947-2)	15 kA
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RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 230 V	10 kA
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RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V	10 kA
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RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V	15 kA
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RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V	15 kA
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OVERVOLTAGE CATEGORY	III
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POLLUTION DEGREE	2
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Technical data - mechanical

**WIDTH IN NUMBER OF
MODULAR SPACINGS** 2

BUILT-IN DEPTH 70.5 mm

DEGREE OF PROTECTION IP20 (IEC)
UL/CSA Type: -
IP20

**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

Design verification as per IEC/EN 61439 - technical data

**RATED OPERATIONAL
CURRENT FOR SPECIFIED
HEAT DISSIPATION (IN)** 3.5 A

**HEAT DISSIPATION PER
POLE, CURRENT-
DEPENDENT** 0 W

**EQUIPMENT HEAT
DISSIPATION, CURRENT-
DEPENDENT** 2.6 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	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	Is the panel builder's responsibility.

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 Miniature circuit breaker

INSULATING MATERIAL

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

CATALOGUES	eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf
CHARACTERISTIC CURVE	eaton-xeffect-faz-mcb-characteristic-curve.jpg
DECLARATIONS OF CONFORMITY	DA-DC-03 FAZ-DU DA-DC-03 FAZ-B-C-D
DRAWINGS	eaton-xeffect-faz-mcb-dimensions-002.jpg eaton-xeffect-faz-mcb-3d-drawing-003.jpg eaton-mcb-faz-xeffect-faz-3d-drawing-002.eps eaton-xeffect-faz-mcb-3d-drawing-012.jpg eaton-xeffect-faz-mcb-3d-drawing-011.jpg
ECAD MODEL	DA-CE-ETN.FAZ-D3,5 2
INSTALLATION INSTRUCTIONS	eaton-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	eaton-faz_mcb_2p-3d-model.stp eaton-faz_mcb_2p-drawing.dwg
PEP ECO-PASSPORT	EATO-00047-V01.01-EN
WIRING DIAGRAMS	eaton-mcb-xeffect-faz-wiring-diagram-002.eps eaton-xpole-mmc4-6-m-mcb-wiring-diagram-003.jpg

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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