

Specifications



Photo is representative



Eaton 278757

Eaton Moeller series xEffect - FAZ MCB. FAZ, 2-pole, tripping characteristic: C, rated current In: 12 A

General specifications

PRODUCT NAME	Eaton Moeller series xEffect - FAZ MCB
CATALOG NUMBER	278757
MODEL CODE	FAZ-C12/2
EAN	4015082787578
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	36 mm
PRODUCT WEIGHT	0.222 kg
COMPLIANCES	UL CSA09 (with supplementary protector only) RoHS conform
CERTIFICATIONS	CSA-C22.2 No. 235 IEC/EN 60947-2 UL (File No. E177451) UL 1077 CSA (File No. 204453) IEC/EN 60898 UL (Category Control Number QVNU2, QVNU8) CE marking North America (UL recognized, CSA certified) CSA (Class No. 3215-30) EN45545-2 IEC 61373



Powering Business Worldwide

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
NUMBER OF POLES (TOTAL)	2
NUMBER OF POLES (PROTECTED)	2
TRIPPING CHARACTERISTIC	C
RELEASE CHARACTERISTIC	C
AMPERAGE RATING	12 A
TYPE	<ul style="list-style-type: none"> • FAZ • Miniature circuit breaker

Technical data - electrical

VOLTAGE TYPE	AC
VOLTAGE RATING	240 V AC / 415 V AC
VOLTAGE RATING (IEC/EN 60898-1)	415 VAC
VOLTAGE RATING (UL)	480Y/277 V
VOLTAGE RATING (UL CSA 13)	480 Y/277 V AC; 96 V DC
RATED OPERATIONAL VOLTAGE (UE) - MAX	400 V
OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX	440 VAC
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) AT MAX VOLTAGE RATING	10 kA
RATED SWITCHING CAPACITY (IEC/EN 60947-2)	15 kA
RATED SWITCHING CAPACITY (IEC/EN 60898-1)	10 kA
BREAKING CAPACITY	10 kA (UL1077)
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)	15 kA

Technical data - mechanical

**WIDTH IN NUMBER OF
MODULAR SPACINGS** 2

BUILT-IN DEPTH 70.5 mm

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

**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

60947-2) AT 230 V

**RATED SHORT-CIRCUIT
BREAKING CAPACITY (IEC
60947-2) AT 400 V** 15 kA

**OVERVOLTAGE
CATEGORY** III

POLLUTION DEGREE 2

Design verification as per IEC/EN 61439 - technical data

**RATED OPERATIONAL
CURRENT FOR SPECIFIED
HEAT DISSIPATION (IN)** 12 A

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

**EQUIPMENT HEAT
DISSIPATION, CURRENT-
DEPENDENT** 4.4 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	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-B-C-D](#)

DRAWINGS [eaton-xeffect-faz-mcb-dimensions-002.jpg](#)
[eaton-xeffect-faz-mcb-3d-drawing-009.jpg](#)
[eaton-xeffect-faz-mcb-3d-drawing-010.jpg](#)
[eaton-xeffect-faz-mcb-3d-drawing-002.jpg](#)
[eaton-mcb-faz-xeffect-faz-3d-drawing-002.eps](#)

ECAD MODEL [ETN.FAZ-C12 2.edz](#)

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-xpole-mmc4-6-m-mcb-wiring-diagram-003.jpg](#)
[eaton-mcb-xeffect-faz-wiring-diagram-002.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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