Specifications

Photo is representative

Eaton 278523

Eaton Moeller series xEffect - FAZ MCB. FAZ, 1-pole, tripping characteristic: B, rated current In: 2 A

General specifications

PRODUCT NAME	Eaton Moeller series xEffect - FAZ MCB
CATALOG NUMBER	278523
EAN	4015082785239
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	17.7 mm
PRODUCT WEIGHT	0.113 kg
COMPLIANCES	UL CSA09 (with supplementary protector only) RoHS conform
CERTIFICATIONS	CSA (Class No. 3215-30) CSA (File No. 204453) UL (Category Control Number QVNU2, QVNU8) UL (File No. E177451) CE marking IEC/EN 60947-2 CSA-C22.2 No. 235 UL 1077 North America (UL recognized, CSA certified) IEC/EN 60898 EN45545-2 IEC 61373
CATALOG NOTES	For applications that require protection due to potential wiring damage at low fault conditions.
MODEL CODE	FAZ-B2/1

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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

Delivery programme

AMPERAGE RATING	2 A
APPLICATION	• Branch circuits, not as BCPD • Switchgear for industrial and advanced commercial applications • xEffect - Switchgear for industrial and advanced commercial applications
NUMBER OF POLES	Single-pole
NUMBER OF POLES (PROTECTED)	1
NUMBER OF POLES (TOTAL)	1
RELEASE CHARACTERISTIC	B
TRIPPING CHARACTERISTIC	B
TYPE	• FAZ • Miniature circuit breaker

Design verification to IEC/EN 61439

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	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	Does not apply, since the

Design verification to IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE - MAX	75 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	1.4 W
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	2 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W

AGAINST ELECTRIC SHOCK	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.

Technical data - electrical

BREAKING CAPACITY	10 kA (UL1077)
FREQUENCY RATING - MAX	60 Hz
FREQUENCY RATING - MIN	50 Hz
OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX	254 VAC
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	230 V
RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1) - ICS	7.5 kA
RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60947-2) - ICS	7.5 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1) - ICN AT 230 V	10 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)- ICN AT 400 V	10 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V	15 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU 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
VOLTAGE RATING	240 V AC / 415 V AC

Technical data - mechanical

BUILT-IN DEPTH	70.5 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm^2
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm^2
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm^2
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm^2
DEGREE OF PROTECTION	IP20 UL/CSA Type: - IP20 (IEC)
WIDTH IN NUMBER OF MODULAR SPACINGS	1

VOLTAGE RATING (IEC/EN 60898-1)	240 VAC
VOLTAGE RATING (UL CSA 13)	277 V AC; 48 V DC
VOLTAGE RATING (UL)	277 V
VOLTAGE TYPE	AC

Resources

CATALOGUES	eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf
CHARACTERISTIC CURVE	eaton-xeffect-faz-mcb-characteristic-curve.jpg
DECLARATIONS OF CONFORMITY	eaton-mcb-declaration-of-conformity-uk251436en.pdf eaton-mcb-declaration-of-conformity-eu250395en.pdf
DRAWINGS	eaton-xeffect-faz-mcb-dimensions.jpg eaton-xeffect-faz-mcb-3d-drawing-008.jpg eaton-xeffect-faz-mcb-3d-drawing-007.jpg eaton-mcb-faz-xeffect-faz-3d-drawing.eps eaton-xeffect-faz-mcb-3d-drawing.jpg
ECAD MODEL	ETN.FAZ-B2_1
INSTALLATION INSTRUCTIONS	eaton-mcb-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	eaton-non-selective-universal-mcb-mcad-3d-models-faz-xxx-1p.stp
PEP ECO-PASSPORT	eaton-non-selective-universal-mcb-pep-eato-00047-v0101-en.pdf eaton-solenoid-operated-bolt-on-mcb-pep-eato-00468-v0101-en.pdf
WIRING DIAGRAMS	eaton-mcb-xeffect-faz-wiring-diagram.eps eaton-xpole-mmc4-6-m-mcb-wiring-diagram-002.jpg

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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