Specifications



Photo is representative





Eaton 278861

Eaton Moeller series xEffect - FAZ MCB. FAZ, 3-pole, tripping characteristic: C, rated current In: 2 A

General specifications	
PRODUCT NAME	Eaton Moeller series xEffect - FAZ MCB
CATALOG NUMBER	278861
MODEL CODE	FAZ-C2/3
EAN	4015082788612
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	54 mm
PRODUCT WEIGHT	0.34 kg
COMPLIANCES	UL CSA09 (with supplementary protector only) RoHS conform
CERTIFICATIONS	CSA (File No. 204453) UL (Category Control Number QVNU2, QVNU8) North America (UL recognized, CSA certified) IEC/EN 60898 UL 1077 UL (File No. E177451) CE marking CSA-C22.2 No. 235 CSA (Class No. 3215-30) IEC/EN 60947-2 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	Three-pole
NUMBER OF POLES (TOTAL)	3
NUMBER OF POLES (PROTECTED)	3
TRIPPING CHARACTERISTIC	C
RELEASE CHARACTERISTIC	C
AMPERAGE RATING	2 A
TYPE	• FAZ • Miniature circuit breaker

Technical data - electrical

VOLTAGE TYPE	AC
VOLTAGE RATING	240 V AC / 415 V AC
VOLTAGE RATING AT DC	60 V DC (per pole)
VOLTAGE RATING (IEC/EN 60898-1)	415 VAC
VOLTAGE RATING (UL)	480Y/277 V
VOLTAGE RATING (UL CSA 13)	480 Y/277 V AC
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
OPERATIONAL SWITCHING CAPACITY	7.5 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	10 kA

60898) AT 400 V	
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V	15 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V	15 kA
ADMISSIBLE BACK-UP FUSE - MAX	125 A gL/gG
SELECTIVITY CLASS	3
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
LIFESPAN, ELECTRICAL	10000 operations
DIRECTION OF INCOMING SUPPLY	As required

Technical data - mechanical

FRAME	45 mm
ENCLOSURE WIDTH	80 mm
WIDTH IN NUMBER OF MODULAR SPACINGS	3
BUILT-IN DEPTH	70.5 mm
MOUNTING WIDTH PER POLE	17.5 mm
MOUNTING WIDTH	17.5 mm
MOUNTING METHOD	Top-hat rail IEC/EN 60715
MOUNTING POSITION	As required
DEGREE OF PROTECTION	IP20 UL/CSA Type: - IP40 (when fitted) IP20 (IEC)
TERMINALS (TOP AND BOTTOM)	Twin-purpose terminals
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm^2
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm^2
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm^2
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm^2
TERMINAL CAPACITY OF SCREW TERMINALS FOR MAIN CABLE	10 mm^2 (2x)
TERMINAL CAPACITY (CONTROL CABLE)	25 mm^2 (1x)
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
BUSBAR MATERIAL THICKNESS	0.8 mm - 2 mm

Design verification as per IEC/EN 61439 - technical data

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	2 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	4.1 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	Miniature circuit breaker FAZ

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-mcb-xeffect-faz-characteristic-curve-002.eps eaton-xeffect-faz-mcb-characteristic-curve.jpg eaton-mcb-tripping-characteristic-xeffect-faz-characteristic-curve-002.eps eaton-mcb-current-xeffect-faz-characteristic-curve-002.eps eaton-mcb-current-xeffect-faz-characteristic-curve.eps eaton-mcb-xeffect-faz-characteristic-curve.eps
DECLARATIONS OF CONFORMITY	eaton-mcb-declaration-of-conformity-eu250395en.pdf
DRAWINGS	eaton-mcb-xeffect-faz-dimensions-003.eps eaton-xeffect-faz-mcb-dimensions-003.jpg eaton-xeffect-faz-mcb-3d-drawing-010.jpg eaton-xeffect-faz-mcb-3d-drawing-002.jpg eaton-mcb-faz-xeffect-faz-3d-drawing-003.eps eaton-xeffect-faz-mcb-3d-drawing-009.jpg
ECAD MODEL	ETN.FAZ-C2_3
INSTALLATION INSTRUCTIONS	eaton-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	faz_3p.stp faz_3p.dwg
PEP ECO-PASSPORT	EATO-00047-V01.01-EN
WIRING DIAGRAMS	eaton-mcb-xeffect-faz-wiring-diagram-003.eps

	eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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