Specifications



Photo is representative





Eaton 102187

Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. FAZ-NA, 2-pole, tripping characteristic: D, rated current In: 10 A, Switchgear for export to North America (UL-listed)

General specifications

PRODUCT NAME	Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB
CATALOG NUMBER	102187
MODEL CODE	FAZ-D10/2-NA
EAN	4015081020638
PRODUCT LENGTH/DEPTH	105 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	35.4 mm
PRODUCT WEIGHT	0.243 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947-2 UL 489 UL 489, CSA C22.2 No. 5 CSA (File No. 204453) CE marking CSA-C22.2 No. 5-09 Specially designed for North America, suitable as BCPD CSA (Class No. 1432-01) IEC 60947-2 North America (UL listed, CSA certified) UL (Category Control Number DIVQ) UL (File No. E235139) EN45545-2 IEC 61373

Powering Business Worldwide

Delivery program

APPLICATION	• Feeder circuits, branch circuits • Switchgear for export to North America (UL-listed)
NUMBER OF POLES	Two-pole
NUMBER OF POLES (TOTAL)	2
NUMBER OF POLES (PROTECTED)	2
TRIPPING CHARACTERISTIC	D
RELEASE CHARACTERISTIC	D
AMPERAGE RATING	10 A
TYPE	• FAZ-NA • Miniature circuit breaker

Technical data - electrical

VOLTAGE TYPE	AC
VOLTAGE RATING	277 V AC / 480 V AC
VOLTAGE RATING AT DC	60 V DC
VOLTAGE RATING (IEC/EN 60947-2)	415 V
VOLTAGE RATING (UL)	480Y/277 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	415 V
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)	15 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 230 V	0 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V	0 kA
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
SELECTIVITY CLASS	3
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
LIFESPAN, ELECTRICAL	20000 operations
DIRECTION OF INCOMING SUPPLY	As required

Technical data - mechanical

FRAME	45 mm
ENCLOSURE WIDTH	105 mm
WIDTH IN NUMBER OF MODULAR SPACINGS	2
BUILT-IN DEPTH	70.5 mm
MOUNTING WIDTH PER POLE	17.7 mm
MOUNTING WIDTH	17.7 mm
MOUNTING METHOD	Top-hat rail IEC/EN 60715
MOUNTING POSITION	As required
DEGREE OF PROTECTION	IP20 (IEC) IP40 (when fitted) UL/CSA Type: - IP20
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 PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TIGHTENING TORQUE	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 2.4 Nm (21 lb-in) for AWG 18 - AWG 12 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm

Design verification as per IEC/EN - technical data

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	10 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	3 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
FUNCTIONS	Current limiting circuit breaker
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-NA

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

BROCHURES	eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf
CATALOGUES	eaton-xeffect-faz-na-rt-mcb-catalog-ca003032en-en-us.pdf
CHARACTERISTIC CURVE	eaton-xeffect-faz-na,-mcb-dimensions-005.jpg eaton-xeffect-faz-na,-mcb-3d-drawing-009.jpg eaton-xeffect-faz-na,-mcb-3d-drawing-010.jpg eaton-xeffect-faz-na,-mcb-characteristic-curve.jpg eaton-xeffect-faz-na,-mcb-characteristic-curve-002.jpg eaton-mcb-xeffect-faz-na,-characteristic-curve-003.eps eaton-mcb-xeffect-faz-na,-characteristic-curve-004.eps
DRAWINGS	eaton-xeffect-faz-na,-mcb-dimensions.jpg eaton-mcb-xeffect-faz-na,-3d-drawing-003.eps
ECAD MODEL	ETN.FAZ-D10_2-NA
INSTALLATION INSTRUCTIONS	IL019133ZU
MCAD MODEL	faz_na_2p.dwg faz_na_2p.stp
PEP ECO-PASSPORT	eaton-mcb-declaration-of-conformity-eu250394en.pdf
WIRING DIAGRAMS	eaton-mcb-xeffect-faz-na,-wiring-diagram-003.eps eaton-xpole-mmc4-6-m-mcb-wiring-diagram-003.jpg

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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