Eaton 102242

Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB. FAZ-NA, 3-pole, tripping characteristic: C, rated current In: 4 A, Switchgear for export to North America (UL-listed)

PRODUCT NAME	Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB
CATALOG NUMBER	102242
PRODUCT LENGTH/DEPTH	105 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	53.1 mm
PRODUCT WEIGHT	0.369 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	UL 489 CSA Std. C22.2 No. 235 CSA-C22.2 No. 5-09 IEC 60947-2 UL (Category Control Number DIVQ) CE marking IEC/EN 60947-2 CSA (File No. 204453) UL 489, CSA C22.2 No. 5 North America (UL listed, CSA certified) CSA (Class No. 1432-01) UL (File No. E235139) Specially designed for North America, suitable as BCPD EN45545-2 IEC 61373
CATALOG NOTES	Positioned for medium inrush startup currents to provide protection for small transformers and pilot devices.

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USED WITH	Miniature circuit breaker FAZ-NA
AMPERAGE RATING	4 A
VOLTAGE RATING	277 V AC / 480 V AC
FEATURES	Additional equipment possible
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

CHARACTERISTIC CURVE	eaton-xeffect-faz-na,-mcb-dimensions-003.jpg
	eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg eaton-mcb-xeffect-faz-na,-wiring-diagram-002.eps
	eaton-mcb-xeffect-faz-na,-3d-drawing-002.eps

	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 INSULATING MATERIAL	Is the panel builder's responsibility.
FRAME	45 mm
POLLUTION DEGREE	2
MOUNTING METHOD	Top-hat rail IEC/EN 60715
DEGREE OF PROTECTION	UL/CSA Type: - IP40 (when fitted) IP20 IP20 (IEC)
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	4.3 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
BREAKING CAPACITY	10 kA (UL489)
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND BOTTOM)	Twin-purpose terminals
TRIPPING CHARACTERISTIC	C
AMBIENT OPERATING	75 °C

TEMPERATURE - MAX	
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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
CURRENT LIMITING CLASS	3
ENCLOSURE WIDTH	105 mm
FREQUENCY RATING - MAX	60 Hz
FREQUENCY RATING - MIN	50 Hz
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
DIRECTION OF INCOMING SUPPLY	As required
WIDTH IN NUMBER OF MODULAR SPACINGS	3
VOLTAGE RATING (IEC/EN 60947-2)	440 V
VOLTAGE RATING (UL)	480Y/277 V
VOLTAGE RATING AT DC	60 V DC
VOLTAGE TYPE	AC
MOUNTING POSITION	As required
OVERVOLTAGE CATEGORY	III
NUMBER OF POLES	Three-pole
FUNCTIONS	Current limiting circuit breaker

LIFESPAN, ELECTRICAL	20000 operations
RELEASE CHARACTERISTIC	C
TYPE	• FAZ-NA • Miniature circuit breaker
SPECIAL FEATURES	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
APPLICATION	• Feeder circuits, branch circuits • Switchgear for export to North America (UL-listed)
MOUNTING WIDTH	17.7 mm
SELECTIVITY CLASS	3
MOUNTING WIDTH PER POLE	17.7 mm
NUMBER OF POLES (PROTECTED)	3
NUMBER OF POLES (TOTAL)	3
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	4 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	415 V
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
RATED SWITCHING CAPACITY (IEC/EN 60947-2)	15 kA
STATIC HEAT	0 W

DISSIPATION, NON-CURRENT-DEPENDENT	
TIGHTENING TORQUE	UL: 2.4 Nm (21 lb-in) for AWG 18 - AWG 12 Max. 2.4 Nm UL: 4 Nm (36 lb-in) for AWG 6 UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8
POWER LOSS	4.5 W

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
:

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