



Eaton 167122

Eaton Moeller series xEffect - FRCmM-NA
RCCB. Residual current circuit breaker
(RCCB), 25A, 2p, 300mA, type G/A, UL

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PRODUCT NAME	Eaton Moeller series xEffect - FRCmM-NA RCCB
CATALOG NUMBER	167122
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	35 mm
PRODUCT WEIGHT	0.1814 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	UL 1053 IEC 61008 EN 61008 ÖVE E 8601 EN45545-2 IEC 61373
CATALOG NOTES	Additionally protects against special forms of residual pulsating DC which have not been smoothed.

USED WITH	Residual current circuit breakers FRCmM-NA Type G/A (◆VE E 8601)
AMPERAGE RATING	25 A
FEATURES	Additional equipment possible Residual current circuit breaker
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 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.
FITTED WITH:	Interlocking device
FRAME	45 mm
FREQUENCY RATING	50 Hz / 60 Hz
POLLUTION DEGREE	2
LIFESPAN, MECHANICAL	10000 operations
MOUNTING METHOD	DIN rail Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
CLIMATIC PROOFING	25-55 °C / 90-95% relative humidity according to IEC 60068-2
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	1.3 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	10 kA
ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX	25 A gG/gL
AMBIENT HUMDITY	5 - 95 %

RANGE	
BUILT-IN WIDTH (NUMBER OF UNITS)	35 mm (2 SU)
SHORT-CIRCUIT RATING	Max. admissible back-up fuse: 63 A gG/gL, 70 A class J fuse (UL)
STATUS INDICATION	White / blue
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND BOTTOM)	Lift terminals
TEST CIRCUIT RANGE	184 V AC - 250 V AC, 196 V AC - 305 V AC (UL)
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
BUILT-IN DEPTH	70.5 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	16 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1.5 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	35 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1.5 mm ²
FAULT CURRENT RATING	300 mA
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0.65 W
OVERVOLTAGE TESTED - MAX	530 V
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX	60 °C
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN	-35 °C
CONTACT POSITION INDICATOR COLOR	Red / green
MOUNTING POSITION	As required
DEGREE OF PROTECTION	IP20 IP20, IP40 with suitable

	enclosure
IMPULSE WITHSTAND CURRENT	3 kA (8/20 µs) surge-proof
NUMBER OF POLES	Two-pole
LEAKAGE CURRENT TYPE	A
LIFESPAN, ELECTRICAL	4000 operations
TYPE	<ul style="list-style-type: none"> • Current test marks as per inscription • Maximum operating temperature is 55 °C: Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C • The maximum operating current of back-up fuse must not exceed the residual current circuit breaker's rated operational current
SPECIAL FEATURES	<ul style="list-style-type: none"> • FRCmM-NA • Residual current circuit breakers • Type G/A (ÖVE E 8601)
APPLICATION	Switchgear for export to North America (UL-listed)
FUNCTIONS	Short-time delayed tripping
PICK-UP CURRENT	200 mA
SENSITIVITY TYPE	Pulse-current sensitive
TERMINAL CAPACITY (CABLE)	M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, PZ2)
RATED FAULT CURRENT - MAX	0.3 A
RATED FAULT CURRENT - MIN	0.3 A
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	25 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	277 V

RATED RESIDUAL MAKING AND BREAKING CAPACITY	500 A
SURGE CURRENT CAPACITY	3 kA
WIDTH IN NUMBER OF MODULAR SPACINGS	2
VOLTAGE RATING (IEC/EN 60947-2)	240 V AC / 415 V AC
VOLTAGE RATING (UL)	480Y/277 V, 60 Hz
VOLTAGE TYPE	AC
TERMINAL CAPACITY (SOLID WIRE)	1.5 mm ² - 35 mm ²
TRIPPING TIME	10 ms delay at 50 Hz 8 ms delay at 60 Hz Short time-delayed
RATED SHORT-CIRCUIT STRENGTH	10 kA with back-up fuse 5 kA (UL, as per CSA)
TERMINAL CAPACITY (STRANDED CABLE)	16 mm ² (2x)
RAL-NUMBER	7035
COLOR	Gray

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