## Eaton 187408

Eaton Moeller series xEffect - FRCmM Type F RCCB. Residual current circuit breaker (RCCB), 25A, 4p, 30mA, type G/F

PRODUCT NAME	Eaton Moeller series xEffect - FRCmM Type F RCCB
CATALOG NUMBER	187408
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	70 mm
PRODUCT WEIGHT	0.352 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 62423 EN45545-2 IEC 61373 IEC/EN 61008



USED WITH	Residual current circuit breakers FRCmM Type G/F (ÖVE 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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Interlocking device
FRAME	45 mm
FREQUENCY RATING	50 Hz / 60 Hz
POLLUTION DEGREE	2
MOUNTING METHOD	Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 DIN rail
CLIMATIC PROOFING	25-55 °C / 90-95% relative humidity according to IEC 60068-2
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	3.1 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
BUILT-IN WIDTH (NUMBER OF UNITS)	70 mm (4 SU)
BUSBAR MATERIAL THICKNESS	0.8 mm - 2 mm
SHORT-CIRCUIT RATING	63 A (max. admissible back-up fuse)
STATUS INDICATION	White / blue
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND BOTTOM)	Twin-purpose terminals
TEST CIRCUIT RANGE	184 V AC - 440 V AC
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
BUILT-IN DEPTH	70.5 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	16 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1.5 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	35 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1.5 mm²
FAULT CURRENT RATING	30 mA
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT	3.275 W
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX	60 °C
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN	-35 °C
CONTACT POSITION	Red / green

INDICATOR COLOR	
MOUNTING POSITION	As required
LIFESPAN, MECHANICAL	20000 operations
DEGREE OF PROTECTION	IP20, IP40 with suitable enclosure IP20
IMPULSE WITHSTAND CURRENT	3 kA (8/20 μs) surge-proof
NUMBER OF POLES	Four-pole
LEAKAGE CURRENT TYPE	Other
LIFESPAN, ELECTRICAL	4000 operations
ТҮРЕ	<ul> <li>FRCmM</li> <li>Residual current circuit breakers</li> <li>Type G/F (ÖVE E 8601)</li> </ul>
SPECIAL FEATURES	<ul> <li>Current test marks as per inscription</li> <li>Maximum operating temperature is 55         °C: Starting at 40         °C, the max. permissible continuous current decreases by 3% for every 1 °C</li> </ul>
APPLICATION	<ul> <li>Switchgear for industrial and advanced commercial applications</li> <li>xEffect - Switchgear for industrial and advanced commercial applications</li> </ul>
FUNCTIONS	Short-time delayed tripping
SENSITIVITY TYPE	Pulse-current sensitive
RADIATION RESISTANCE	Frequency mix (10 Hz, 50 Hz, 1000 Hz) enhanced sensitivity
TERMINAL CAPACITY (CABLE)	M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, PZ2)

RATED FAULT CURRENT - 0.03 A  RATED FAULT CURRENT - 0.03 A  RATED INSULATION 440 V  RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)
MIN  RATED INSULATION VOLTAGE (UI)  RATED OPERATIONAL CURRENT FOR SPECIFIED 25 A
VOLTAGE (UI)  RATED OPERATIONAL CURRENT FOR SPECIFIED 25 A
CURRENT FOR SPECIFIED 25 A
RATED OPERATIONAL VOLTAGE (UE) - MAX
RATED RESIDUAL MAKING AND BREAKING 500 A CAPACITY
STATIC HEAT  DISSIPATION, NON-  CURRENT-DEPENDENT  0 W
SURGE CURRENT CAPACITY  3 kA
WIDTH IN NUMBER OF 4 MODULAR SPACINGS
<b>VOLTAGE RATING (IEC/EN</b> 60947-2) 240 V AC / 415 V AC
VOLTAGE TYPE AC
TERMINAL CAPACITY (SOLID WIRE) 1.5 mm <sup>2</sup> - 35 mm <sup>2</sup>
TRIPPING TIME 10 ms delayed
RATED SHORT-CIRCUIT  10 kA with back-up fuse
STRENGTH
TIGHTENING TORQUE 2 Nm - 2.4 Nm
SIRENGIH
TIGHTENING TORQUE 2 Nm - 2.4 Nm  TERMINAL CAPACITY  16 mm² (2x)

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
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