

Eaton 187435

Eaton Moeller series xEffect - FRCmM Type F RCCB. Residual current circuit breaker (RCCB), 80A, 4p, 100mA, type S/F

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PRODUCT NAME	Eaton Moeller series xEffect - FRCmM Type F RCCB
CATALOG NUMBER	187435
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	70 mm
PRODUCT WEIGHT	0.381 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 62423 EN45545-2 IEC 61373 IEC/EN 61008



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USED WITH	FRCmM Type S/F Residual current circuit breakers
AMPERAGE RATING	80 A
FEATURES	Residual current circuit breaker Additional equipment possible Selective protection
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	Does not apply, since the

10.2.7 INSCRIPTIONS Meets the product standard's requirements. 10.3 DEGREE OF PROTECTION OF ASSEMBLIES 10.4 CLEARANCES AND CREEPAGE DISTANCES 10.5 PROTECTION AGAINST ELECTRIC SHOCK BOOK BOOK BOOK BOOK BOOK BOOK BOOK B	IMPACT	entire switchgear needs to
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WITHSTAND VOLTAGE (UIMP) RATED SHORT-TIME WITHSTAND CURRENT (ICW) ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX 4 kV 4 kV 80 A gG/gL	DISSIPATION, CURRENT-	18.8 W
WITHSTAND CURRENT 10 kA (ICW) ADMISSIBLE BACK-UP 80 A gG/gL	WITHSTAND VOLTAGE	4 kV
FUSE OVERLOAD - MAX 80 A gG/gL	WITHSTAND CURRENT	10 kA
RIII T-IN WIDTH 70 mm (4 CLI)		
BUILT-IN WIDTH 70 mm (4 SU)		80 A gG/gL

(NUMBER OF UNITS)	
BUSBAR MATERIAL THICKNESS	0.8 mm - 2 mm
SHORT-CIRCUIT RATING	80 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	40 °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 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	35 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1.5 mm²
FAULT CURRENT RATING	100 mA
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT	4.7 W
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX	60 °C
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN	-35 ℃
CONTACT POSITION INDICATOR COLOR	Red / green
MOUNTING POSITION	As required
LIFESPAN, MECHANICAL	20000 operations
DEGREE OF PROTECTION	IP20, IP40 with suitable enclosure IP20

IMPULSE WITHSTAND CURRENT	5 kA (8/20 μs) surge-proof
NUMBER OF POLES	Four-pole
LEAKAGE CURRENT TYPE	Other
LIFESPAN, ELECTRICAL	4000 operations
ТҮРЕ	FRCmMResidual current circuit breakersType S/F
SPECIAL FEATURES	 Current test marks as per inscription Maximum operating temperature is 75 °C: Starting at 40 °C, the max. permissible continuous current decreases by 1.2% for every 1 °C
APPLICATION	 Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications
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 - MAX	0.1 A
RATED FAULT CURRENT - MIN	0.1 A
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	80 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	240 V
RATED RESIDUAL	800 A

0 W
5 kA
4
240 V AC / 415 V AC
AC
1.5 mm² - 35 mm²
Selective switch off 40 ms delayed - selective switch off
10 kA with back-up fuse
2 Nm - 2.4 Nm
16 mm² (2x)
7035

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
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information.





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