

Eaton 167882

Eaton Moeller series xEffect - FRCdM Type B, B+, Bfq RCCB, 63 A, 4p, 30 mA, type G/B+

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PRODUCT NAME	Eaton Moeller series xEffect - FRCdM Type B, B+, Bfq RCCB
CATALOG NUMBER	167882
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	70 mm
PRODUCT WEIGHT	0.32 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	ÖVE E 8601 VDE 0664-400 EN45545-2 IEC 61373 IEC/EN 61008 IEC/EN 62423



USED WITH	Type G/B+ (�VE E 8601) Residual current circuit- breakers, digital FRCdM
AMPERAGE RATING	63 A
FEATURES	Additional equipment possible Residual current circuitbreakers, digital 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	The device meets the requirements, provided
FUNCTION	the information in the instruction leaflet (IL) is observed.
	instruction leaflet (IL) is
FUNCTION 10.2.2 CORROSION	instruction leaflet (IL) is observed. Meets the product
10.2.2 CORROSION RESISTANCE 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF	instruction leaflet (IL) is observed. Meets the product standard's requirements. Meets the product
10.2.2 CORROSION RESISTANCE 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS	instruction leaflet (IL) is observed. Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements.
10.2.2 CORROSION RESISTANCE 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT 10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT.	instruction leaflet (IL) is observed. Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements.
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CHARACTERISTIC CURVE	eaton-current-xeffect- frcdm-rccb-characteristic- curve.jpg
	eaton-mcb-xeffect-frcdm- rccb-characteristic- curve.eps
000	eaton-xeffect-frcdm-rccb- wiring-diagram-002.jpg
	eaton-xeffect-frcdm-rccb- wiring-diagram.jpg
	eaton-current-xeffect- frcdm-rccb-wiring- diagram.jpg
0000	eaton-xeffect-digital- switchgear-brochure- br003004en-en-us.pdf
00	<u>eaton-current-xeffect-</u> <u>frcdm-rccb-dimensions.jpg</u>
000000	eaton-quality-standards- for-railway-applications- application-paper- ap003005en-en-us.pdf

IMPACT	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
POLLUTION DEGREE	2
LIFESPAN, MECHANICAL	20000 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	10 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
ADMISSIBLE BACK-UP FUSE	63 A gG/gL
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	10 kA

ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX	63 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
SWITCHING CAPACITY OF AUXILIARY CONTACT - MIN	10 μA, 10 mV DC
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND BOTTOM)	Twin-purpose terminals
TEST CIRCUIT RANGE	196 V AC - 264 V AC
AMBIENT OPERATING TEMPERATURE - MAX	60 °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	10 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT	0 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
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	B+
LIFESPAN, ELECTRICAL	4000 operations
ТҮРЕ	 Current test marks as per inscription Dry auxiliary contact: > 100,000 electrical switching operations per minute at 2 A 30 VDC resistive load Dry auxiliary contact: > 5 x 100,000 electrical switching operations per minute at 1 A 30 VDC resistive load Maximum operating temperature is 60 °C in accordance with the de-rating table
SPECIAL FEATURES	 FRCdM Residual current circuit-breakers, digital Type G/B+ (ÖVE E 8601)
APPLICATION	xEffect - Switchgear for industrial and advanced commercial applications
FUNCTIONS	Short-time delayed tripping
SENSITIVITY TYPE	All current sensitive
TERMINAL CAPACITY (CABLE)	M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, PZ2)
RATED FAULT CURRENT - MAX	0.03 A
RATED FAULT CURRENT - MIN	0.03 A
RATED INSULATION	440 V

VOLTAGE (UI)	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	63 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	415 V
RATED RESIDUAL MAKING AND BREAKING CAPACITY	630 A
RATED SWITCHING CAPACITY (RESISTIVE LOAD) OF AUXILIARY CONTACT AT 240 V AC	0.25 A
RATED SWITCHING CAPACITY (RESISTIVE LOAD) OF AUXILIARY CONTACT AT 30 V DC	2 A
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	0 W
SURGE CURRENT CAPACITY	3 kA
SWITCHING CURRENT OF AUXILIARY CONTACT - MAX	2 A
SWITCHING DUTY WITH RESISTIVE LOAD OF AUXILIARY CONTACT - MAX	60 W
SWITCHING VOLTAGE AT AC OF AUXILIARY CONTACT - MAX	240 V
SWITCHING VOLTAGE AT DC OF AUXILIARY CONTACT - MAX	220 V
VOLTAGE RATING - MAX	456 VAC
VOLTAGE RATING - MIN	50 VAC
WIDTH IN NUMBER OF MODULAR SPACINGS	4
VOLTAGE RATING (IEC/EN 60947-2)	240 V AC / 415 V AC
VOLTAGE TYPE	AC
TERMINAL CAPACITY (SOLID WIRE)	1.5 mm² - 35 mm²
TRIPPING TIME	Short time-delayed 10 ms delayed
RATED SHORT-CIRCUIT STRENGTH	10 kA
TIGHTENING TORQUE	2 Nm - 2.4 Nm
TERMINAL CAPACITY (STRANDED CABLE)	16 mm² (2x)

TERMINAL CAPACITY OF AUXILIARY CONTACT	0.25 mm² - 1.5 mm²
RAL-NUMBER	7035
COLOR	Gray

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