

Eaton 170441

Eaton Moeller series xEffect - FRCmM Type AC, A, U, R RCCB. Residual current circuit breaker (RCCB), 100A, 2p, 100mA, type S/A

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PRODUCT NAME	Eaton Moeller series xEffect - FRCmM Type AC, A, U, R RCCB
CATALOG NUMBER	170441
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	35 mm
PRODUCT WEIGHT	0.202 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 61008 EN45545-2 IEC 61373



USED WITH	Residual current circuit breakers Type S/A FRCmM
AMPERAGE RATING	100 A
FEATURES	Selective protection Residual current circuit breaker 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.	Meets the product
EFFECTS	standard's requirements.
	standard's requirements. Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV)	Meets the product

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10.2.7 INSCRIPTIONS Meets the product standard's requirements	
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10.3 DEGREE OF PROTECTION OF ASSEMBLIESDoes not apply, since the entire switchgear needs be evaluated.	
10.4 CLEARANCES AND Meets the product standard's requirements	5.
10.5 PROTECTIONDoes not apply, since theAGAINST ELECTRICentire switchgear needsSHOCKbe evaluated.	
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS Does not apply, since the entire switchgear needs be evaluated.	
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS Is the panel builder's responsibility.	
10.8 CONNECTIONS FOR Is the panel builder's responsibility.	
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH Is the panel builder's responsibility.	
10.9.3 IMPULSE 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 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 IE 60068-2	
EQUIPMENT HEAT DISSIPATION, CURRENT- 13.6 W DEPENDENT	
RATED IMPULSE WITHSTAND VOLTAGE 4 kV (UIMP)	
DATED CHORT TIME	
RATED SHORT-TIME WITHSTAND CURRENT 10 kA (ICW)	

BUILT-IN WIDTH (NUMBER OF UNITS)	35 mm (2 SU)
BUSBAR MATERIAL THICKNESS	0.8 mm - 2 mm
SHORT-CIRCUIT RATING	100 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 - 250 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 mm²
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	9.4 W
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, IP40 with suitable enclosure IP20

IMPULSE WITHSTAND CURRENT	5 kA (8/20 μs) surge-proof
NUMBER OF POLES	Two-pole
LEAKAGE CURRENT TYPE	A
LIFESPAN, ELECTRICAL	4000 operations
ТҮРЕ	FRCmMResidual current circuit breakersType S/A
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
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)	100 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	240 V
RATED RESIDUAL MAKING AND BREAKING CAPACITY	1000 A
STATIC HEAT	0 W

DISSIPATION, NON- CURRENT-DEPENDENT	
SURGE CURRENT CAPACITY	5 kA
WIDTH IN NUMBER OF MODULAR SPACINGS	2
VOLTAGE RATING (IEC/EN 60947-2)	240 V AC
VOLTAGE TYPE	AC
TERMINAL CAPACITY (SOLID WIRE)	1.5 mm² - 35 mm²
TRIPPING TIME	Selective switch off 40 ms delayed - selective switch off
RATED SHORT-CIRCUIT STRENGTH	10 kA with back-up fuse
TIGHTENING TORQUE	2 Nm - 2.4 Nm
TERMINAL CAPACITY (STRANDED CABLE)	16 mm² (2x)
RAL-NUMBER	7035
COLOR	Gray

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