## Eaton 170926

Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 6A, 100mA, MCB trip type C, 3-phase+N, RCCB trip type: A

PRODUCT NAME	Eaton Moeller series xEffect - FRBm6/M RCBO - residual- current circuit breaker with overcurrent protection
CATALOG NUMBER	170926
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	70 mm
PRODUCT WEIGHT	0.446 kg
COMPLIANCES	CE Marked RoHS conform
CERTIFICATIONS	CE EN45545-2 IEC 61373

AMPERAGE RATING 6 A  VOLTAGE RATING 415 V - 415 V  SURGE CURRENT 0.25 kA  VOLTAGE TYPE AC  WIDTH IN NUMBER OF	
SURGE CURRENT CAPACITY  VOLTAGE TYPE  AC	
CAPACITY  VOLTAGE TYPE  AC	
WIDTH IN NUMBER OF	
MODULAR SPACINGS 4	
FEATURES Concurrently switching N-neutral	
The panel builder is responsible for the temperaturise calculation. Eaton will provide heat dissipation data for the devices.	re
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	
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	
<b>10.2.2 CORROSION</b> 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.	
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.	
<b>10.3 DEGREE OF</b> Does not apply, since the	
PROTECTION OF entire switchgear needs to be evaluated.	
<b>PROTECTION OF</b> entire switchgear needs to be	

xEffect FR RCCB FAZ%20MCB.pdf
eaton-xeffect-frbm6-rcbo-catalog- ca003015en-en-us.pdf
eaton-xeffect-frbm6m-characteristic- curve-002.jpg
eaton-xeffect-frbm6m-dimensions- 004.jpg
eaton-xeffect-frbm6m-wiring-diagram- 002.jpg

SHOCK	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.
OPERATING AMBIENT TEMPERATURE - MAX	40 °C
OPERATING AMBIENT TEMPERATURE - MIN	-25 °C
PRODUCT RANGE	FRBm6
RATED CURRENT	6 A
RATED FAULT CURRENTS OF PRODUCT RANGE	30, 100, 300 MilliAmpere
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 A
RATED SWITCHING CAPACITY (IEC/EN 61009)	6 kA
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	0 W
TRIPPING CHARACTERISTIC	С
BUILT-IN DEPTH	75.5 mm
CURRENT LIMITING CLASS	3
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)	0 kA
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
FAULT CURRENT RATING	0.1 A
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT	0 W
NUMBER OF POLES (PROTECTED)	4
NUMBER OF POLES	4

(TOTAL)	
(TOTAL)	
RATED OPERATIONAL VOLTAGE (UE) - MAX	415 V
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)	0 kA
RATED SWITCHING CAPACITY	6 kA
BASIC FUNCTION	Combined RCD/MCB devices
MOUNTING METHOD	DIN rail
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	4.8 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
DEGREE OF PROTECTION	IP20
OPERATING AMBIENT TEMPERATURE HINT	Keep in mind the derating at temperatures higher than 40 $^{\circ}$ C
TRIPPING	Non-delayed
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
IMPULSE WITHSTAND CURRENT	Partly surge-proof, 250 A
LEAKAGE CURRENT TYPE	A
RELEASE CHARACTERISTIC	С
SENSITIVITY TYPE	Pulse-current sensitive
FREQUENCY RATING	50 Hz
RATED INSULATION VOLTAGE (UI)	500 V
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI- WIRED) - MIN	1 mm²
CONNECTABLE	25 mm²
CONDUCTOR CROSS SECTION (MULTI- WIRED) - MAX	
SECTION (MULTI-	6 kA
SECTION (MULTI- WIRED) - MAX RATED SHORT-CIRCUIT BREAKING CAPACITY	
SECTION (MULTI-WIRED) - MAX  RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009)  RATED SHORT-CIRCUIT BREAKING CAPACITY	6 kA

CHARACTERISTIC	
ТҮРЕ	RCBO
APPLICATION	Switchgear for industrial and advanced commercial applications

PROJECT NAME:	_
PROJECT NUMBER:	
PREPARED BY:	
:	

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