



Eaton 196955

FRBmM-C20/2/003-G/A. RCD/MCB combination, 20 A, 30 mA, MCB trip characteristic: C, 2p, RCD trip characteristic: G/A



PRODUCT NAME	Eaton Moeller series xEffect - FRBmM RCBO - residual-current circuit breaker with overcurrent protection
CATALOG NUMBER	196955
PRODUCT LENGTH/DEPTH	86 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	37 mm
PRODUCT WEIGHT	0.25 kg
CERTIFICATIONS	EN45545-2 IEC 61373



Powering Business Worldwide

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AMPERAGE RATING	20 A
VOLTAGE RATING	230 V
SURGE CURRENT CAPACITY	3 kA
VOLTAGE TYPE	AC
WIDTH IN NUMBER OF MODULAR SPACINGS	2
FEATURES	Anti-nuisance tripping version
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.
10.2.4 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	Does not apply, since the

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CHARACTERISTIC CURVE	eaton-xeffect-frbm6m-characteristic-curve-003.jpg
PEP ECO-PASSPORT	eaton-rcc-with-overcurrent-protection-pep-eato-00173-v0101-en.pdf
□□□□□	eaton-mcb-rccb-rcbo-g9-il019140zu.pdf
□□□□	xEffect_FR_RCCB_FAZ%20MCB.pdf
	eaton-xeffect-frbm6m-3d-drawing-016.jpg
	eaton-xeffect-frbm6m-wiring-diagram-003.jpg
□□	eaton-xeffect-frbm6m-3d-drawing-008.jpg
	eaton-xeffect-frbm6m-dimensions-002.jpg

PROTECTION OF ASSEMBLIES	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	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
RATED CURRENT	20 A
BUILT-IN DEPTH	70 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	0.03 A
NUMBER OF POLES (PROTECTED)	2
NUMBER OF POLES (TOTAL)	2
RATED OPERATIONAL VOLTAGE (UE) - MAX	240 V
MOUNTING METHOD	DIN rail
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
DEGREE OF PROTECTION	IP20

