Specifications

Eaton 120662

Eaton Moeller series xPole - mRB4/6 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 10A, 100mA, C-LS-Char, 3N pole, FI-Char: A

General specifications

PRODUCT NAME	Eaton Moeller series xPole - mRB4/6 RCBO - residual-current circuit breaker with overcurrent protection
CATALOG NUMBER	120662
MODEL CODE	mRB6-10/3N/C/01-A
EAN	4015081184927
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
GLOBAL CATALOG	120662

Powering Business Worldwide

Product specifications

VOLTAGE RATING	400 V
SURGE CURRENT CAPACITY	0.25 kA
VOLTAGE TYPE	AC
WIDTH IN NUMBER OF MODULAR SPACINGS	4
FEATURES	Concurrently switching N-neutral
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.
DEVICE HEIGHT	80 mm
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

Resources

CATALOGS	eaton-xpole-mrb4-rcbo-catalog-ca019058en-en-us.pdf eaton-xpole-mrb6-rcbo-catalog-ca019057en-en-us.pdf
CHARACTERISTIC CURVE	eaton-mcb-xpole-mrb4-6-characteristic-curve.eps Characteristics xPole mRB4/mRB6 3N
DECLARATIONS OF CONFORMITY	eaton-rcbo-residual-current-circuit-breaker-with-overcurrent-protection-declaration-of-conformity-eu250077en.pdf
DRAWINGS	eaton-xeffect-frbm6m-characteristic-curve-002.jpg eaton-xeffect-frbm6m-wiring-diagram-002.jpg eaton-mcb-xpole-mrb4-6-dimensions.eps eaton-xeffect-frbm6m-dimensions-004.jpg Dimensions xPole mRB4/mRB6 3N 3D Drawing xPole mRB4/mRB6 3N
ECAD MODEL	ETN.mRB6-10_3N_C_01-A.edz
INSTALLATION INSTRUCTIONS	eaton-xpole-combined-mcb-rcd-device-rcbo-packaging-manual-multilingual.pdf eaton-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	faz_3pn_4p.dwg faz_3pn_4p.stp
PEP ECO-PASSPORT	eaton-rcd-with-overcurrent-protection-pep-eato-00113-v0101-en.pdf
WIRING DIAGRAMS	eaton-mcb-xpole-mrb4-6-wiring-diagram.eps

	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 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	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.
MOUNTING STYLE	Tri-stable slide catch - enables removal from existing busbar combination
OPERATING AMBIENT TEMPERATURE - MAX	40 °C
OPERATING AMBIENT TEMPERATURE - MIN	-25 °C
PRODUCT APPLICATION	Switchgear for industrial and advanced commercial applications
PRODUCT RANGE	mRB6
RATED CURRENT	10 A
RATED CURRENT OF PRODUCT RANGE	6 - 25 Ampere
RATED FAULT CURRENTS OF PRODUCT RANGE	30, 100, 300 MilliAmpere
RATED OPERATIONAL	10 A

	Contact Sequence xPole mRB4/mRB6 3N

CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	
RATED SWITCHING CAPACITY (IEC/EN 60947-2)	6 kA
RATED SWITCHING CAPACITY (IEC/EN 61009)	6 kA
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W
TRIPPING CHARACTERISTIC	C
BUILT-IN DEPTH	70 mm
CURRENT LIMITING CLASS	3
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)	0 kA
FRAME	45 mm
TERMINAL PROTECTION	Busbar tag shroud to VBG4
TERMINALS (TOP AND BOTTOM)	Twin-purpose
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 (TOTAL)	4
RATED OPERATIONAL VOLTAGE (UE) - MAX	400 V
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)	0 kA
RATED SWITCHING CAPACITY	6 kA
BACK-UP FUSE	100 Ampere gL
BASIC FUNCTION	Combined RCD/MCB devices

MOUNTING METHOD	DIN rail
CLIMATIC PROOFING	IEC 68-2: 25 °C - 55 °C at 90 % - 95 % humidity
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	8.2 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
DEGREE OF PROTECTION (BUILT IN)	IP40
DEGREE OF PROTECTION	IP20
OPERATING AMBIENT TEMPERATURE HINT	Keep in mind the derating at temperatures higher than 40 °C
SOLID TERMINAL CAPACITIES	1 - 25 Square Millimeter
STANDARDS	IEC/EN 61009
TRIPPING	Non-delayed
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
MATERIAL THICKNESS	2 mm
RATED NON-TRIPPING CURRENT	0.5 x IΔn
IMPULSE WITHSTAND CURRENT	Partly surge-proof, 250 A
LEAKAGE CURRENT TYPE	A
RELEASE CHARACTERISTIC	C
SENSITIVITY TYPE	Type A, pulse-current sensitive
FREQUENCY RATING	50 Hz
RATED INSULATION VOLTAGE (UI)	500 V
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm^2
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm^2
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm^2

CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm^2
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009)	6 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1)	6 kA
VOLTAGE RATING AT AC	230 V / 400 V
NUMBER OF POLES	Three-pole + N
DISCONNECTION CHARACTERISTIC	Undelayed
TYPE	RCBO
APPLICATION	Switchgear for residential and commercial applications
SELECTIVITY CLASS	3

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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