Specifications

Eaton 236077

Eaton Moeller series xPole - PKN6/M RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 10A, 30mA, MCB C, 1-phase+N, RCCB trip type: AC

General specifications

PRODUCT NAME	Eaton Moeller series xPole - PKN6/M RCBO - residual-current circuit breaker with overcurrent protection
CATALOG NUMBER	236077
MODEL CODE	PKNM-10/1N/C/003-MW
EAN	4015082360771
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	35 mm
PRODUCT WEIGHT	0.209 kg
COMPLIANCES	CE Marked RoHS conform
CERTIFICATIONS	CE
GLOBAL CATALOG	236077
PRODUCT TYPE	RCBO - Residual-current circuit breaker with overcurrent protection

Powering Business Worldwide

Product specifications

AMPERAGE RATING	10 A
VOLTAGE RATING	230 V
SURGE CURRENT CAPACITY	0.25 kA
VOLTAGE TYPE	AC
WIDTH IN NUMBER OF MODULAR SPACINGS	2
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.
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 be evaluated.
10.2.6 MECHANICAL	Does not apply, since the

Resources

CATALOGS	eaton-xpole-pknm-rcbo-catalog-ca019041en-en-us.pdf eaton-xpole-pkn6-rcbo-catalog-ca019043en-en-us.pdf
CHARACTERISTIC CURVE	eaton-xpole-pkn6-m-characteristic-curve-005.jpg
DECLARATIONS OF CONFORMITY	eaton-rcbo-residual-current-circuit-breaker-with-overcurrent-protection-declaration-of-conformity-eu250083en.pdf
DRAWINGS	eaton-xpole-pkn6-m-dimensions.jpg eaton-xpole-pkn6-m-3d-drawing.jpg
ECAD MODEL	ETN.PKNM-10_1N_C_003-MW
INSTALLATION INSTRUCTIONS	eaton-mcb-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	eaton-rcd-with-overcurrent-protection-3d-models-fk9051.stp eaton-rcbo-mcad-drawings-fk9051.dwg
PEP ECO-PASSPORT	eaton-rcd-with-overcurrent-protection-pep-eato-00114-v0101-en.pdf
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 236077
WIRING DIAGRAMS	eaton-xeffect-rcbo-fl6-7-wiring-diagram.eps

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	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	PKNM
RATED CURRENT	10 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	10 A
RATED SWITCHING CAPACITY (IEC/EN 61009)	10 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
AMBIENT OPERATING	40 °C

TEMPERATURE - MAX	
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
FAULT CURRENT RATING	0.03 A
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
NUMBER OF POLES (PROTECTED)	1
NUMBER OF POLES (TOTAL)	2
RATED OPERATIONAL VOLTAGE (UE) - MAX	230 V
RATED SWITCHING CAPACITY	10 kA
BASIC FUNCTION	Combined RCD/MCB devices
MOUNTING METHOD	DIN rail
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	2.5 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
DEGREE OF PROTECTION	IP20
TRIPPING	Non-delayed
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
IMPULSE WITHSTAND CURRENT	Partly surge-proof, 250 A
LEAKAGE CURRENT TYPE	AC
RELEASE CHARACTERISTIC	C
SENSITIVITY TYPE	Type AC, AC current sensitive.
FREQUENCY RATING	50 Hz
RATED INSULATION VOLTAGE (UI)	440 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 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm²
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009)	10 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1)	10 kA
NUMBER OF POLES	Single-pole + N
DISCONNECTION CHARACTERISTIC	Undelayed
TYPE	RCBO
APPLICATION	Switchgear for residential and commercial applications

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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