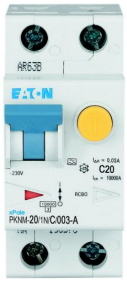
Specifications



Photo is representative





Eaton 236249

Eaton Moeller series xPole - PKN6/M RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 20A, 30mA, C-LS-Char, 1N pole, FI-Char: A

General specifications	
PRODUCT NAME	Eaton Moeller series xPole - PKN6/M RCBO - residual-current circuit breaker with overcurrent protection
CATALOG NUMBER	236249
MODEL CODE	PKNM-20/1N/C/003-A-MW
EAN	4015082362492
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	35 mm
PRODUCT WEIGHT	0.193 kg
COMPLIANCES	CE Marked RoHS conform
CERTIFICATIONS	CE

Additional information

CURRENT LIMITING CLASS	3
FEATURES	Concurrently switching N-neutral

Delivery program

AMPERAGE RATING	20 A
APPLICATION	Switchgear for residential and commercial applications
BASIC FUNCTION	Combined RCD/MCB devices
FAULT CURRENT RATING	0.03 A
NUMBER OF POLES	Single-pole + N
NUMBER OF POLES (PROTECTED)	1
NUMBER OF POLES (TOTAL)	2
PRODUCT RANGE	PKNM
RATED CURRENT	20 A
RELEASE CHARACTERISTIC	C
SENSITIVITY TYPE	Type A, pulse-current sensitive
TRIPPING CHARACTERISTIC	C
TYPE	RCBO

Design verification as per IEC/EN 61439

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 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.

Design verification as per IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	4.7 W
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	20 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W

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.

Technical data - electrical

DISCONNECTION CHARACTERISTIC	Undelayed
FREQUENCY RATING	50 Hz
IMPULSE WITHSTAND CURRENT	Partly surge-proof, 250 A
LEAKAGE CURRENT TYPE	A
POLLUTION DEGREE	2
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	230 V
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)	0 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1)	10 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009)	10 kA
RATED SWITCHING CAPACITY	10 kA
RATED SWITCHING CAPACITY (IEC/EN 61009)	10 kA
SURGE CURRENT CAPACITY	0.25 kA
TRIPPING	Non-delayed
VOLTAGE RATING	230 V
VOLTAGE TYPE	AC

Technical data - mechanical

BUILT-IN DEPTH	70 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm²
DEGREE OF PROTECTION	IP20
MOUNTING METHOD	DIN rail
WIDTH IN NUMBER OF MODULAR SPACINGS	2

Resources

DECLARATIONS OF CONFORMITY	eaton-rcd-overcurrent-protection-rcbo-declaration-eu260079en.pdf
ECAD MODEL	ETN.PKNM-20_1N_C_003-A-MW
INSTALLATION INSTRUCTIONS	eaton-mcb-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	eaton-rcd-with-overcurrent-protection-3d-models-fk9051.stp
PEP ECO-PASSPORT	eaton-rcd-with-overcurrent-protection-pep-eato-00114-v0101-en.pdf
WIRING DIAGRAMS	eaton-xeffect-rcbo-fl6-7-wiring-diagram.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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