

Specifications



Eaton 196664

Eaton Moeller series RCBO - Residual-current circuit breaker with overcurrent protection. PKPM3, 3 pole, C, In: 20 A, 10 kA, I_{Δn}: 0.03 A

General specifications

PRODUCT NAME	Eaton Moeller series RCBO - Residual-current circuit breaker with overcurrent protection
CATALOG NUMBER	196664
MODEL CODE	PKPM3-20/3/C/003-Li/A
EAN	9010238800342
PRODUCT LENGTH/DEPTH	86 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	73 mm
PRODUCT WEIGHT	0.39 kg
COMPLIANCES	CE Marked RoHS conform
CERTIFICATIONS	CE

Product specifications

AMPERAGE RATING	20 A
VOLTAGE RATING	230 V
SURGE CURRENT CAPACITY	0.25 kA
VOLTAGE TYPE	AC
WIDTH IN NUMBER OF MODULAR SPACINGS	4
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.
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 be evaluated.

Resources

CHARACTERISTIC CURVE	eaton-PKPM-characteristic-curve.jpg
DECLARATIONS OF CONFORMITY	eaton-rcbo-residual-current-circuit-breaker-with-overcurrent-protection-declaration-of-conformity-eu250085en.pdf
DRAWINGS	eaton-xeffect-frbm6m-dimensions-003.jpg eaton-xeffect-frbm6m-wiring-diagram-004.jpg
INSTALLATION INSTRUCTIONS	eaton-mcb-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	eaton-rcd-with-overcurrent-protection-3d-models-rcbo-3pole-4mu.stp eaton-rcbo-mcad-drawings-rcbo-3pole-4mu.dwg
PEP ECO-PASSPORT	eaton-rcd-with-overcurrent-protection-pep-eato-00172-v0101-en.pdf

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 residential and commercial applications
PRODUCT RANGE	PKPM3
RATED CURRENT	20 A
RATED FAULT CURRENTS OF PRODUCT RANGE	10, 30, 100 MilliAmpere
RATED SWITCHING CAPACITY (IEC/EN 61009)	10 kA
TRIPPING CHARACTERISTIC	C
BUILT-IN DEPTH	69.5 mm
CURRENT LIMITING CLASS	3

RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)	0 kA
FRAME	45 mm
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND BOTTOM)	Twin-purpose
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
FAULT CURRENT RATING	0.03 A
NUMBER OF POLES (PROTECTED)	3
NUMBER OF POLES (TOTAL)	3
RATED OPERATIONAL VOLTAGE (UE) - MAX	400 V
RATED SWITCHING CAPACITY	10 kA
BASIC FUNCTION	Combined RCD/MCB devices
MOUNTING METHOD	DIN rail
CLIMATIC PROOFING	IEC/EN 61009
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	9.2 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
DEGREE OF PROTECTION (BUILT IN)	IP20, IP40 when fitted
DEGREE OF PROTECTION	IP20, IP40 when fitted IP20
TRIPPING	Non-delayed
OVERVOLTAGE CATEGORY	III
BUILT-IN WIDTH	70 mm
POLLUTION DEGREE	2
MATERIAL THICKNESS	2 mm
RATED NON-TRIPPING CURRENT	0.5 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)	10 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1)	10 kA
VOLTAGE RATING AT AC	230 V
NUMBER OF POLES	Three-pole
DISCONNECTION CHARACTERISTIC	Short-time delayed
LIFESPAN, ELECTRICAL	2000 operations
LIFESPAN, MECHANICAL	10000 operations
TYPE	RCBO
APPLICATION	xPole - Switchgear for residential and commercial applications
SELECTIVITY CLASS	3

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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