

RCD/MCB combination, 6 A, 30 mA, MCB trip characteristic: B, 1p+N, RCD trip characteristic: A



**Part no.** PKNM-6/1N/B/003-A-MW  
236012

Similar to illustration

General specifications		
Product name		Eaton Moeller series xPole - PKN6/M RCBO - residual-current circuit breaker with overcurrent protection
Part no.		PKNM-6/1N/B/003-A-MW
EAN		4015082360122
Product Length/Depth		80 millimetre
Product height		75 millimetre
Product width		35 millimetre
Product weight		0.199 kilogram
Compliances		RoHS conform
Certifications		CE
Product Tradename		xPole - PKN6/M
Product Type		RCBO - Residual-current circuit breaker with overcurrent protection
Product Sub Type		None
Delivery program		
Application		Switchgear for residential and commercial applications
Product range		PKNM
Basic function		Combined RCD/MCB devices
Number of poles		Single-pole + N
Number of poles (protected)		1
Number of poles (total)		2
Tripping characteristic		B
Release characteristic		B
Amperage Rating		6 A
Rated current		6 A
Fault current rating		0.03 A
Sensitivity type		Type A, pulse-current sensitive
Type		RCBO
Technical Data - Electrical		
Voltage type		AC
Voltage rating		230 V
Rated operational voltage (Ue) - max		230 V
Rated insulation voltage (Ui)		440 V
Rated impulse withstand voltage (Uimp)		4 kV
Impulse withstand current		Partly surge-proof, 250 A
Frequency rating		50 Hz
Leakage current type		A
Rated switching capacity		10 kA
Rated switching capacity (IEC/EN 61009)		10 kA
Rated short-circuit breaking capacity (EN 60947-2)		0 kA
Rated short-circuit breaking capacity (EN 61009)		10 kA
Rated short-circuit breaking capacity (EN 61009-1)		10 kA
Rated short-circuit breaking capacity (IEC 60947-2)		0 kA
Surge current capacity		0.25 kA
Disconnection characteristic		Undelayed
Tripping		Non-delayed

Pollution degree			2
<b>Technical Data - Mechanical</b>			
Width in number of modular spacings			2
Built-in depth			70 mm
Degree of protection			IP20
Connectable conductor cross section (solid-core) - min			1 mm <sup>2</sup>
Connectable conductor cross section (solid-core) - max			25 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - min			1 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - max			25 mm <sup>2</sup>
<b>Design verification as per IEC/EN 61439 - technical data</b>			
Rated operational current for specified heat dissipation (In)			6 A
Heat dissipation per pole, current-dependent			0 W
Equipment heat dissipation, current-dependent			1.9 W
Static heat dissipation, non-current-dependent			0 W
Heat dissipation capacity			0 W
Ambient operating temperature - max			40 °C
Ambient operating temperature - min			-25 °C
<b>Design verification as per IEC/EN 61439</b>			
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.
10.2.3.3 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.
10.6 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.
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.
<b>Additional information</b>			
Current limiting class			3
Features			Concurrently switching N-neutral

## Technical data ETIM 9.0

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)			
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss13-27-14-22-07 [AFZ810020])			
Number of poles (total)			2
Number of protected poles			1
Rated voltage	V		230
Rated insulation voltage Ui	V		440
Rated impulse withstand voltage Uimp	kV		4
Rated current	A		6
Rated fault current	A		0.03
Leakage current type			A

Current limiting class		3
Power loss	W	
Rated short-circuit breaking capacity according to EN 61009	kA	10
Rated short-circuit breaking capacity according to IEC 60947-2	kA	0
Rated short-circuit breaking capacity Icn according to EN 61009-1	kA	10
Disconnection characteristic		Undelayed
Surge current capacity	kA	0.25
Voltage type		AC
Frequency		50 Hz
Release characteristic		B
Concurrently switching neutral conductor		Yes
With interlocking device		No
Over voltage category		3
Pollution degree		2
Ambient temperature during operating	°C	-25 - 40
Width in number of modular spacings		2
Built-in depth	mm	70
Flush-mounted installation		No
Anti-nuisance tripping version		No
Degree of protection (IP)		IP20
Connectable conductor cross section solid-core	mm <sup>2</sup>	1 - 25
Connectable conductor cross section multi-wired	mm <sup>2</sup>	1 - 25