DATASHEET - PKNM-16/1N/B/003-A-MW



RCD/MCB combination, 16 A, 30 mA, MCB trip characteristic: B, 1p+N, RCD trip characteristic: A



Part no. PKNM-16/1N/B/003-A-MW 236205

Similar to illustration

General specifications	
Product name	Eaton Moeller series xPole - PKN6/M RCBO - residual-current circuit breaker with overcurrent protection
Part no.	PKNM-16/1N/B/003-A-MW
EAN	4015082362058
Product Length/Depth	80 millimetre
Product height	75 millimetre
Product width	35 millimetre
Product weight	0.193 kilogram
Compliances	CE Marked 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	В
Release characteristic	В
Rated current	16 A
Fault current rating	0.03 A
Sensitivity type	Type A, pulse-current sensitive
Туре	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
Technical Data - Mechanical	
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 ²
Connectable conductor cross section (solid-core) - max	25 mm²
Connectable conductor cross section (multi-wired) - min	1 mm²
Connectable conductor cross section (multi-wired) - max	25 mm²
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	16 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	3.2 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
Design verification as per IEC/EN 61439	
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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Additional information	
Current limiting class	3
Features	Concurrently switching N-neutral

Technical data ETIM 8.0

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)				
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protec				

ection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015]) Number of poles (total) 2 Number of protected poles Rated voltage ٧ 230 Rated insulation voltage Ui ٧ 440 Rated impulse withstand voltage Uimp kV 4 Rated current Α 16 Α Rated fault current 0.03 Leakage current type Α

Rated short-circuit breaking capacity according to EN 61009 Rated short-circuit breaking capacity according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to EN 61009-1 Rated short-circuit breaking capacity Icn according to Icn				
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Rated short-circuit breaking capacity Icn according to EN 61009-1 Disconnection characteristic Surge current capacity Voltage type Voltage type Release characteristic Concurrently switching neutral conductor With interlocking device Over voltage category Pollution degree Ambient temperature during operating Width in number of modular spacings Built-in depth Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) Width in under of modular spacings Pollution (IP) ARA 10 Undelayed Indelayed Indelay	Rated short-circuit breaking capacity according to EN 61009	k/	£Α	10
Disconnection characteristic Surge current capacity Voltage type Frequency Release characteristic Concurrently switching neutral conductor With interlocking device Over voltage category Pollution degree Ambient temperature during operating With in number of modular spacings Built-in depth Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) Undelayed Londauer ARA Londauer AC C B C C B C C S S Ves No 3 3 3 3 4 5 6 7 7 7 7 7 7 7 8 No No No No No No Pollution degree Pollution degree Pollution (IP) Pollution (IP) Pollution (IP) Pollution (IP) Pollution (IP) Pollution (IP)	Rated short-circuit breaking capacity according to IEC 60947-2	k/	:A	0
Surge current capacity Voltage type AC Frequency Release characteristic Concurrently switching neutral conductor With interlocking device Over voltage category Pollution degree Ambient temperature during operating With in number of modular spacings Built-in depth Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) KA 0.25 AC AC FU 50 Hz 50 Hz 8 8 4 7 es No 2 2 7 co -25 - 40 No No No No No No No No No N	Rated short-circuit breaking capacity Icn according to EN 61009-1	k/	:A	10
Voltage type Frequency Frequency Release characteristic Formular conductor With interlocking device With interlocking device Voltage category Pollution degree Ambient temperature during operating With in number of modular spacings Built-in depth Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) AC Vac B WC SO HZ Ves No No Ves No No 1 3 2 2 4 No No No No No IP20 IP20	Disconnection characteristic			Undelayed
Frequency Release characteristic Concurrently switching neutral conductor With interlocking device Over voltage category Pollution degree Ambient temperature during operating With in number of modular spacings Built-in depth Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) 50 Hz 50 Hz 50 Hz 50 Hz 50 Hz 60	Surge current capacity	k.	:A	0.25
Release characteristic Concurrently switching neutral conductor With interlocking device No Over voltage category Over voltage category 2 Ambient temperature during operating CC Width in number of modular spacings Billt-in depth mm 70 Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) B Yes No CC -25 - 40 2 Ambient temperature during operating mm 70 No IP20 IP20	Voltage type			AC
Concurrently switching neutral conductor With interlocking device Over voltage category Pollution degree Ambient temperature during operating width in number of modular spacings Built-in depth Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) Yes No No No Pollution degree No Pollution degree 1	Frequency			50 Hz
With interlocking device Over voltage category Pollution degree Ambient temperature during operating C 2 Width in number of modular spacings Built-in depth Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) No No No Polyment of Modular spacings No No Polyment of Modular spacings No Polyment of	Release characteristic			В
Over voltage category Over voltage category Pollution degree Ambient temperature during operating °C -25 - 40 Width in number of modular spacings Built-in depth mm 70 Anti-nuisance tripping version No Degree of protection (IP) 3 Anti-nuisance tripping version I 2 I 2 I 2 I 2 I 2 I 2 I 2 I	Concurrently switching neutral conductor			Yes
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	With interlocking device			No
Ambient temperature during operating °C -25 - 40 Width in number of modular spacings Built-in depth mm 70 Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) °C -25 - 40 2 1 1 1 1 1 1 1 1 1 1 1 1	Over voltage category			3
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	Pollution degree			2
Built-in depth mm 70 Flush-mounted installation No Anti-nuisance tripping version No Degree of protection (IP) IP20	Ambient temperature during operating	°(С	-25 - 40
Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) No IP20	Width in number of modular spacings			2
Anti-nuisance tripping version No Degree of protection (IP) IP20	Built-in depth	m	nm	70
Degree of protection (IP)	Flush-mounted installation			No
	Anti-nuisance tripping version			No
Connectable conductor cross section solid-core mm² 1 - 25	Degree of protection (IP)			IP20
	Connectable conductor cross section solid-core	m	nm²	1 - 25
Connectable conductor cross section multi-wired mm ² 1 - 25	Connectable conductor cross section multi-wired	m	nm²	1 - 25