DATASHEET - PKNM-16/1N/C/003-MW



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

Part no. **PKNM-16/1N/C/003-MW**
236212

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/C/003-MW
EAN	4015082362126
Product Length/Depth	80 millimetre
Product height	75 millimetre
Product width	35 millimetre
Product weight	0.193 kilogram
Compliances	RoHS conform CE Marked
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	C
Release characteristic	C
Amperage Rating	16 A
Rated current	16 A
Fault current rating	0.03 A
Sensitivity type	Type AC, AC 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	AC
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 mm^2
Connectable conductor cross section (multi-wired) - min		1 mm^2
Connectable conductor cross section (multi-wired) - max		25 mm^2

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 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.

Additional information

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	16

Rated fault current		A	0.03
Leakage current type			AC
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			C
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^2	1 - 25
Connectable conductor cross section multi-wired		mm^2	1 - 25

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