# DATASHEET - PKN6-13/1N/C/03-MW



RCD/MCB, 13A, 300mA, miniature circuit-breaker trip curve C, 1pole+N, residual current circuit-breaker trip characteristic: AC



Part no. PKN6-13/1N/C/03-MW Catalog No. 236570

Similar to illustration

Delivery program			
Basic function			Combined RCD/MCB devices
Number of poles			1 pole+N
Tripping characteristic			С
Application			Switchgear for residential and commercial applications
Rated current	In	Α	13
Rated switching capacity according to IEC/EN 61009		kA	6
Rated fault current	$I_{\Delta N}$	Α	0.3
Туре			Type AC
Tripping		s	non-delayed
Product range			PKN6

#### **Technical data**

Impulse withstand current

#### **Electrical**

Sensitivity

Sensitivity	AC current sensitive
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AC current sensitive
Partly surge-proof 250 A

## **Design verification as per IEC/EN 61439**

Fechnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	13
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	3.1
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
			0
EC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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.

10.9 Insulation properties	
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.

### **Technical data ETIM 7.0**

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@ss10.0.1-27-14-22-07 [AFZ810015])

[A12010010]/			
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	13
Rated fault current		А	0.3
Leakage current type			AC
Current limiting class			3
Rated short-circuit breaking capacity acc. EN 61009		kA	6
Rated short-circuit breaking capacity IEC 60947-2		kA	0
Rated short-circuit breaking capacity Icn acc. EN 61009-1	I	kA	6
Disconnection characteristic			
Surge current capacity	I	kA	0.25
Voltage type			AC
Frequency			50 Hz
Release characteristic			С
Concurrently switching N-neutral			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	1	mm	69.5
Suitable for flush-mounted installation			No
Anti-nuisance tripping version			No
Degree of protection (IP)			IP20
Connectable conductor cross section solid-core	I	mm²	1 - 25
Connectable conductor cross section multi-wired	I	mm²	1 - 25