DATASHEET - PKN6-6/1N/C/03-MW



RCD/MCB, 6A, 300mA, miniature circuit-breaker trip curve C, 1pole+N, residual current circuit-breaker trip characteristic: AC



Part no. Catalog No. PKN6-6/1N/C/03-MW 236447

Similar to illustration

Delivery program

Basic function			Combined RCD/MCB devices
Number of poles			1 pole+N
Tripping characteristic			C
Application			Switchgear for residential and commercial applications
Rated current	I _n	А	6
Rated switching capacity according to IEC/EN 61009		kA	6
Rated fault current	$I_{\Delta N}$	А	0.3
Туре			Туре АС
Tripping		s	non-delayed
Product range			PKN6
Sensitivity			AC current sensitive
Impulse withstand current			Partly surge-proof 250 A

Technical data

Electrical

Sensitivity	AC current sensitive

Design verification as per IEC/EN 61439

Design vernication as per icc/civ 01459			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	1.9
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
			0
IEC/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])

Number of protected polesImage: space of protected polesImage: space of protected polesRated voltageV30Rated inclusion voltage UinV40Rated inclusion voltage UinV40Rated function voltage UinV40Rated function voltage UinV0Rated function voltage Uin voltage UinV0Rated function voltage Uin voltage UinV0Rated function voltage Uin voltage UinV0Rated short-circuit breaking capacity EC 60947-2VNRated short-circuit breaking capacity EC 60947-2VNRobic on circuit breaking capacity EC 60947-2VNStore cortage voltage V			
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Lakage urm type Lakage urm typ	Rated current	А	6
Current limit class Image: section of the	Rated fault current	А	0.3
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Disconnection characteristicImage: Content capacityImage: Content capacitySurge current capacityKADisconnection capacityVoltage typeKAContent capacityFrequencyContent capacityContent capacityRelease characteristicContent capacityVoltage typeConcurrently switching N-neutralManage typeVoltage typeVith interlocking deviceManage typeVoltage typeOutro dage categoryContent capacitySoldaPollution degreeContent capacitySoldaNumber of modular spacingsManage typeSoldaSuitable for flush-mounted installationContent capacityNoAnti-nuisance tripping versionContent capacityNoDigree of protection (IP)Content capacityNoSundeble conductor cross section solid-coreContent capacityNoSundeble conductor cross section solid-coreSolda capacityNoSundeble conductor capacitySolda capacityNo <tr< td=""><td>Rated short-circuit breaking capacity IEC 60947-2</td><td>kA</td><td>0</td></tr<>	Rated short-circuit breaking capacity IEC 60947-2	kA	0
Surge current capacity A 25 Surge current capacity KA C Voltage type KA C Frequency SUrge current capacity SUrge current capacity SUrge current capacity Release characteristic C SUrge current capacity SUrge current capacity SUrge current capacity SUrge current capacity SURGE CURRENT CURR	Rated short-circuit breaking capacity Icn acc. EN 61009-1	kA	6
Voltage type AC Frequency 50 Hz Release characteristic 50 Hz Concurrently switching N-neutral C With interlocking device No Over voltage category 64 P P Pollution degree 3 Anbient temperature during operating 64 P P With innumber of modular spacings 64 P P Suitable for flush-mounted installation 65 Anti-nuisance tripping version 64 P P Degree of protection (IP) More Suitable conductor cross section solid-core mare	Disconnection characteristic		
Frequency 50 Hz Release characteristic 60 Hz Concurrently switching N-neutral 7 Hs With interlocking device No Over voltage category 60 Hz Pollution degree 7 Hs Ambient temperature during operating 7 Hs With in number of modular spacings 7 Hs Built-in depth mm Suitable for flush-mounted installation Mm Anti-nuisance tripping version Mo Degree of protection (IP) Mm ² Longence the protection solid-core mm ² Manage conductor cross section solid-core mm ²	Surge current capacity	kA	0.25
Release characteristic Image: Characteristic Release characteristic Image: Characteristic Release c	Voltage type		AC
Concurrently switching N-neutral Mes With interlocking device No Over voltage category 3 Pollution degree 2 Ambient temperature during operating Pol With in number of modular spacings Mes Built-in depth Mes Stable for flush-mounted installation Mes Anti-nuisance tripping version Mes Degree of protection (IP) Mes Stable conductor cross section solid-core mmes Mes Immes Mes Immes Mes Immes Stable conductor cross section solid-core Immes	Frequency		50 Hz
With interlocking deviceNoOver voltage category3Pollution degree2Ambient temperature during operatingCVidth in number of modular spacingsCBuilt-in depthMSutable for flush-mounted installationCAnti-nuisance tripping versionCDegree of protection (IP)MRunde temperature during operatingMMNoM	Release characteristic		C
Over voltage category 3 Pollution degree 2 Ambient temperature during operating °C 25 - 40 Width in number of modular spacings M 9 Built-in depth M 9 Suitable for flush-mounted installation M 9 Anti-nuisance tripping version M M Degree of protection (IP) Imm² 125	Concurrently switching N-neutral		Yes
Pollution degreePollution degreePollu	With interlocking device		No
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Width in number of modular spacings Image: Spacing Spaci	Pollution degree		2
Built-in depthmm69.5Suitable for flush-mounted installationMMAnti-nuisance tripping versionMMDegree of protection (IP)IP20Connectable conductor cross section solid-coremm²1.25	Ambient temperature during operating	°C	-25 - 40
Suitable for flush-mounted installation Mo Anti-nuisance tripping version Mo Degree of protection (IP) IP20 Connectable conductor cross section solid-core mm² 1-25	Width in number of modular spacings		2
Anti-nuisance tripping version Mo Degree of protection (IP) IP20 Connectable conductor cross section solid-core mm² 1-25	Built-in depth	mm	69.5
Degree of protection (IP) IP20 Connectable conductor cross section solid-core mm² 1 - 25	Suitable for flush-mounted installation		No
Connectable conductor cross section solid-core mm ² 1 - 25	Anti-nuisance tripping version		No
	Degree of protection (IP)		IP20
Connectable conductor cross section multi-wired mm ² 1 - 25	Connectable conductor cross section solid-core	mm ²	1 - 25
	Connectable conductor cross section multi-wired	mm ²	1 - 25