DATASHEET - PFL6-6/1N/C/003

Part no.

Catalog No.



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

PFL6-6/1N/C/003

286464



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	In	А	6
Rated switching capacity according to IEC/EN 61009		kA	6
Rated fault current	$I_{\Delta N}$	А	0.03
Туре			Туре АС
Tripping		s	non-delayed
Product range			PFL6
Sensitivity			AC current sensitive
Impulse withstand current			Partly surge-proof 250 A

AC current sensitive

Technical data

Electrical

Sensitivity	
oononing	

chnical 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
C/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])

Numer of protection protecti			
Reted voltageImage: Normal Sector	Number of poles (total)		2
Retain suitan valueg Uing V 40 Retain suitan valueg Uing V 4 Retain suitan valueg Uing V 4 Retain suitan valueg Uing V 4 Retain suitan valueg Uing A 6 Retain suitan valueg Uing A 03 Retain suitan valueg Uing A 0 Current Type A 0 Retain suitan valueg apacity acc. EN 61009 KA 0 Retain suitan valueg apacity ICE 00047-2 KA 0 Retain suitan valueg apacity ICE 00047-2 KA 0 Surge current capacity KA 0 Concurrent yaacteristic KA 0 Concurrent yaacteristic Surge Current capacity Surge Current capacity Concurent yaacteristic Surge Current cap	Number of protected poles		1
Reted inpulse withstand voltage Ump I I Reted fault current I I Reted fault current I I Reted fault current I I Current timing class I I Reted short-circuit breaking capacity acc. EN 61009 I I Reted short-circuit breaking capacity ICE 00047-2 I I Reted short-circuit breaking capacity ICE 00047-2 I I Surge current capacity I I I Nates short-circuit breaking capacity ICE 00047-2 I I Surge current capacity I I I Surge current capacity I I I Outge type I I I Surge current capacity I I I Relas acharacteristic I I I Concurrent yswitching N-neutral I I I Neither Indepresent I I I Relas acharacteristic I I I Concurrent yswitching N-neutral I I I Neither Indepresent I I I Relas acharacteristic I I I Concurrent yswitching N-neutral	Rated voltage	V	230
Reted currentImage: A general set of the	Rated insulation voltage Ui	V	440
Retafuid current 03 Retafuid current 03 Lakage current type 0 Current limiting class 3 Retaf short-circuit breaking capacity LGC 60947-2 KA Rated short-circuit breaking capacity LGC 60947-2 KA Disconnection characteristic C Strage current capacity LGC 60947-2 KA Nage current capacity LGC 60947-2 KA Vidage type KA Strage current capacity LGC 60947-2 KA Vidage type S Strage current capacity LGC 60947-2 KA Vidage type S Vidage type S Releade characteristic S Routeneet control of the control of	Rated impulse withstand voltage Uimp	kV	4
Lakage current typeALakage current typeACurrent limiting class3Rede short-circuit breaking capacity LGC 60947-2MRed short-circuit breaking capacity LGC 60947-2MSurge current capacity LGC 60947-2M <td< td=""><td>Rated current</td><td>А</td><td>6</td></td<>	Rated current	А	6
Current limiting classImage: state short-circuit breaking capacity LCC 60947-2KAImage: state short-circuit breaking capacity LCC 60947-2Red short-circuit breaking capacity LCC 60947-2KAImage: state short-circuit breaking capacity LCC 60947-2Red short-circuit breaking capacity LCC 60947-2KAImage: state short-circuit breaking capacity LCC 60947-2Surge current capacity LCC 60947-2KAImage: state short-circuit breaking capacity LCC 60947-2Surge current capacity LCC 60947-2KAImage: state short-circuit breaking capacity LCC 60947-2Surge current capacity LCC 60947-2KAImage: state short-circuit breaking capacity LCC 60947-2Vidage typeKAImage: state short-circuit breaking capacity LCC 60947-2Release characteristicKAImage: state short-circuit breaking capacity LCC 60947-2Notin tentered uring operatingKAImage: state short-circuit breaking capacity LCC 60947-2Nation temperature during operatingKAImage: state short-circuit breaking capacity LCC 60947-2Nation temperature during operatingKAImage: state short-circuit breaking capacity LCC 60947-2Nation temperature during operatingKAImage: state short-circuit breaking capacity LCC 60947-2Nation temperature during operatingKAImage: state short-circuit breaking capacity LCC 60947-2Nation temperature during operating capacity LCC 60947-2Nmage: state short-circuit breaking capacity LCC 60947-2Nation temperature during operating capacity LCC 60947-2Nmage: state short-circuit breaking capacity LCC 60947-2Nation temperature during operating capacity	Rated fault current	А	0.03
Rate shor-circuit breaking capacity acc. EN 61009 KA 6 Rated shor-circuit breaking capacity IC 60047-2 KA 0 Rated shor-circuit breaking capacity IC 60047-2 KA 0 Disconnection characteristic C C Surge current capacity C C Vidage type C C Release characteristic C C Concurrently switching N-neutral C C Vidage type S S Outron degree C S Notit interporting operating C S Vidati in number of modular spacings C S Suitable for flush-mounted installation S S Anti-insigne tripping version C S Digree of not (IP) F S S Rate of the conductor cross section solid-core S S S	Leakage current type		AC
Rated short-circuit breaking capacity IC 60947-2 KA Image: Construct of Constr	Current limiting class		3
Rated short-circuit breaking capacity Lon acc. EN 61009-1 Image: All and an antipact of the state of the	Rated short-circuit breaking capacity acc. EN 61009	kA	6
Disconnection characteristicImage of the second	Rated short-circuit breaking capacity IEC 60947-2	kA	0
Surge current capacity Image in the second sec	Rated short-circuit breaking capacity Icn acc. EN 61009-1	kA	6
Voltage type A Frequency 50 Hz Release characteristic C Concurrently switching N-neutral M With interlocking device M Over voltage category M Pollution degree M Ambient temperature during operating M Vitti hinumber of modular spacings M Suitable for flush-mounted installation M Anti-nuisance tripping version M Degree of protection (IP) M Concutable conductor cross section solid-core M M m M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M	Disconnection characteristic		
Frequency 64 64 Release characteristic 64 64 Concurrently switching N-neutral 64 64 With interlocking device 76 76 Over voltage category 64 6 Pollution degree 64 6 Ambient temperature during operating 64 76 Vidth in number of modular spacings 64 70 Suitable for flush-mounted installation 76 76 Anti-nuisance tripping version 76 76 Degree of protection (P) 76 70 Connectable conductor cross section solid-core 70 72	Surge current capacity	kA	0.25
Release characteristic Image: Release characteristic C Concurrently switching N-neutral Image: Release characteristic Ves With interlocking device Image: Release characteristic No Over voltage category Image: Release characteristic Sector Pollution degree Image: Release characteristic Sector Sector Ambient temperature during operating Image: Release characteristic Sector Sector Vidth in number of modular spacings Image: Release characteristic Sector Sector Suitable for flush-mounted installation Image: Release characteristic No Anti-nuisance tripping version Image: Release characteristic No Degree of protection (IP) Image: Release characteristic No Concurrent of modular spacings Image: Release characteristic No Sector of protection (IP) Image: Release characteristic No Concurrent of modular spacing solid-core Image: Release characteristic No Sector of protection (IP) Image: Release characteristic No Sector of the conductor cross section solid-core Image: Release characteristic No	Voltage type		AC
Concurrently switching N-neutral Main With interlocking device Mo Over voltage category Mo Pollution degree Mo Ambient temperature during operating Mo With in number of modular spacings Mo Built-in depth Mo Stable for flush-mounted installation Mo Anti-nuisance tripping version Mo Degree of protection (IP) Mo Stable conductor cross section solid-core Mo	Frequency		50 Hz
With interlocking deviceMoOver voltage categoryGGGPollution degreeCGCAmbient temperature during operatingG°C25 40With in number of modular spacingsGMm69.5Built-in depthMm69.5SolSuitable for flush-mounted installationGMmNoAnti-nuisance tripping versionGMm100Degree of protection (IP)ImmImm120Suitable conductor cross section solid-coreImm125	Release characteristic		C
Over voltage category 3 Pollution degree 3 Ambient temperature during operating °C 25 - 40 Width in number of modular spacings 6 7C 3 Buit-in depth mm 9.5 3 Suitable for flush-mounted installation M 9.5 No Degree of protection (IP) PO PO PO Connectable conductor cross section solid-core mm ² 1.25 1.25	Concurrently switching N-neutral		Yes
Pollution degree Image: Constraint of the system of the	With interlocking device		No
Ambient temperature during operating°C°25 - 40Width in number of modular spacings62Buit-in depthmm69.5Suitable for flush-mounted installationFNoAnti-nuisance tripping versionMmNoDegree of protection (IP)P20P20Connectable conductor cross section solid-coremm²1.25	Over voltage category		3
Width in number of modular spacings2Built-in depthmm69.5Suitable for flush-mounted installationMMAnti-nuisance tripping versionMMDegree of protection (IP)Mm²1.25	Pollution degree		2
Built-in depth mm 69.5 Suitable for flush-mounted installation M M Anti-nuisance tripping version M M Degree of protection (IP) M IP20 Connectable conductor cross section solid-core mm² 1.25	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 No 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