DATASHEET - PFL6-32/1N/C/003-A



RCD/MCB combination, 32 A, 30 mA, MCB trip characteristic: C, 1p+N, RCD trip characteristic: A



PFL6-32/1N/C/003-A Part no.

113104 Catalog No.

Similar to illustration

Design verification as per IEG/EN 01439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	32
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	6.6
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 switch gear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear 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 8.0

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 poles (total)		2		
Number of protected poles		1		
Rated voltage	V	230		

Rated impulse withstand voltage Uimp Rated current Rated current Rated current Rated short-circuit breaking capacity according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated short-circuit breaking capacity len according to EN 61009-1 Rated s			
Rated fault current Rated fault current Rated fault current type Current limiting class Current classific Current classific Current classific Currently switching neutral conductor Currently switching neutral currently switching neutral conductor Currently switching neu	Rated insulation voltage Ui	V	440
Asted fault current Leakage current type Current limiting class Rated short-circuit breaking capacity according to EN 61009 Rated short-circuit breaking capacity according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-	Rated impulse withstand voltage Uimp	kV	4
Leakage current type Current limiting class Rated short-circuit breaking capacity according to EN 61009 Rated short-circuit breaking capacity according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking cap	Rated current	Α	32
Current limiting class Rated short-circuit breaking capacity according to EN 61009 Rated short-circuit breaking capacity according to IEC 60947-2 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rated short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lcn according to EN 61009-1 Rate short-circuit breaking capacity lca according to EN 61009-1 Rate short-circuit breaking capacity load capacit	Rated fault current	Α	0.03
Asted short-circuit breaking capacity according to EN 61009	Leakage current type		A
Rated short-circuit breaking capacity according to EC 60947-2 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 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 Indiana. Rated short-circuit breaking Icn according to Indiana. Rated short-circuit breaking Icn according to Icn according to Icn according to Icn ac	Current limiting class		3
Rated short-circuit breaking capacity Icn according to EN 61009-1 kA 0.25 Voltage type KA 0.25 Voltage type AC Crequency Release characteristic Concurrently switching neutral conductor With interlocking device Over voltage category Pollution degree Ambient temperature during operating With in number of modular spacings Suilt-in depth Minumber of modular spacings Suilt-in depth Anti-nuisance tripping version Concurcetable conductor corse section solid-core mm² 1-25 Concurrention in the according to EN 61009-1 AC Undelayed Undelayed Undelayed Undelayed Octoor Undelayed Octoor Undelayed Octoor Undelayed Octoor AC CC CC CC CC Ves No No Octoor 69.5 No No Concurrention Polyo Polyo	Rated short-circuit breaking capacity according to EN 61009	kA	6
Disconnection characteristic Surge current capacity Voltage type Voltage type Voltage type Release characteristic Concurrently switching neutral conductor With interlocking device Over voltage category Pollution degree Ambient temperature during operating Vith in number of modular spacings Suilt-in depth Release chracteristic No Anti-nuisance tripping version Concurrently switching neutral conductor With in number of protection (IP) No No No No No No No No No N	Rated short-circuit breaking capacity according to IEC 60947-2	kA	0
Surge current capacity AC Frequency 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 Connectable conductor cross section solid-core RA AC AC AC C C C C C C AD No No No No No No No No No N	Rated short-circuit breaking capacity Icn according to EN 61009-1	kA	6
AC Frequency 50 Hz Release characteristic C Concurrently switching neutral conductor 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 69.5 Flush-mounted installation No Anti-nuisance tripping version No Degree of protection (IP) IP20 Connectable conductor cross section solid-core mm² 1 - 25	Disconnection characteristic		Undelayed
Frequency Release characteristic C Concurrently switching neutral conductor With interlocking device No Over voltage category Pollution degree Ambient temperature during operating C With in number of modular spacings S Suilt-in depth mm 69.5 Selush-mounted installation Anti-nuisance tripping version No Overgee of protection (IP) Connectable conductor cross section solid-core 50 Hz C C C C C C C C C C C C C C C C C C C	Surge current capacity	kA	0.25
Release characteristic Concurrently switching neutral conductor With interlocking device No Over voltage category Pollution degree Ambient temperature during operating CC -25 - 40 Width in number of modular spacings CI -25 - 40 Width in number of modular spacings CI -25 - 40 Width in depth CI -25 - 40 Width in temperature during operating CI -25 - 40 Width in number of modular spacings CI -25 - 40 Width in numb	Voltage type		AC
Concurrently switching neutral conductor With interlocking device No Over voltage category Pollution degree Ambient temperature during operating Concurrently switching neutral conductor CC -25 - 40 Width in number of modular spacings Built-in depth Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) Connectable conductor cross section solid-core Yes No Res No -25 - 40 Mm 69.5 No No -40 -40 -40 -40 -40 -40 -40 -40 -40 -40	Frequency		50 Hz
With interlocking device Dever voltage category Pollution degree Ambient temperature during operating "C -25 - 40 Width in number of modular spacings Built-in depth Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) Connectable conductor cross section solid-core No No No No Polyment defended on the protection (IP) Connectable conductor cross section solid-core No No No Polyment defended on the protection (IP) Polyment defended on the protection (IP) No Polyment defended on the protection (IP) Polyment defended on	Release characteristic		С
Over voltage category Connectable conductor cross section solid-core 2 3 3 3 2 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7	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 69.5 Flush-mounted installation No Anti-nuisance tripping version No Degree of protection (IP) IP20 Connectable conductor cross section solid-core mm² 1 - 25	With interlocking device		No
Ambient temperature during operating CC -25 - 40 Width in number of modular spacings 2 Built-in depth mm 69.5 Flush-mounted installation No Anti-nuisance tripping version Degree of protection (IP) Connectable conductor cross section solid-core mm² 1 - 25	Over voltage category		3
Width in number of modular spacings 2 Built-in depth mm 69.5 Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) Connectable conductor cross section solid-core mm² 1 - 25	Pollution degree		2
Built-in depth mm 69.5 Flush-mounted installation No Anti-nuisance tripping version No Degree of protection (IP) IP20 Connectable conductor cross section solid-core mm² 1 - 25	Ambient temperature during operating	°C	-25 - 40
Flush-mounted installation Anti-nuisance tripping version Degree of protection (IP) 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) Connectable conductor cross section solid-core No IP20 1 - 25	Built-in depth	mm	69.5
Degree of protection (IP) Connectable conductor cross section solid-core IP20 mm² 1 - 25	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	mm²	1 - 25
	Connectable conductor cross section multi-wired	mm²	1 - 25