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



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



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

286470 Catalog No.

Similar to illustration

Design verification as per IEC/EN	61439
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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
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 b 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 kV 4 Rated current A 32 Rated fauth current A 0.03 Rated fauth current AC AC Current limiting class A 6 Rated short-circuit breaking capacity according to EN 61009 kA 6 Rated short-circuit breaking capacity according to EN 61009-1 kA 0 Rated short-circuit breaking capacity lon according to EN 61009-1 kA 0.25 Rated short-circuit breaking capacity lon according to EN 61009-1 kA 0.25 Rated short-circuit breaking capacity lon according to EN 61009-1 kA 0.25 Rated short-circuit breaking capacity lon according to EN 61009-1 kA 0.25 Rated short-circuit breaking capacity lon according to EN 61009-1 kA 0.25 Rated short-circuit breaking capacity lon according to EN 61009-1 kA 0.25 Rated short-circuit breaking capacity lon according to EN 61009-1 kA 0.25 Rated short-circuit breaking capacity lon according to EN 61009-1 kA 0.25 Rated short-circuit breaking capacity lon according to EN 61009-1 kA 0.25<			
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Acted 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 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-circui	Rated impulse withstand voltage Uimp	kV	4
Lee kage current type Current limiting class Cated short-circuit breaking capacity according to EN 61009 Cated short-circuit breaking capacity according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking capacity lcn according to EN 61009-1 Cated short-circuit breaking ca	Rated current	Α	32
Auternt limiting class Asted short-circuit breaking capacity according to EN 61009 Asted short-circuit breaking capacity according to IEC 60947-2 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according to EN 61009-1 Asted short-circuit breaking capacity lon according	Rated fault current	Α	0.03
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Asted short-circuit breaking capacity according to EC 60947-2 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 Asted short-circuit breaking capacity Icn according to EN 61009-1 According to EN	Current limiting class		3
Asted short-circuit breaking capacity Icn according to EN 61009-1 As Disconnection characteristic Concurrently switching neutral conductor As Disconnection characteristic As Disconnection characteristic Concurrent capacity As Disconnection characteristic As Disconnection characterist	Rated short-circuit breaking capacity according to EN 61009	kA	6
Disconnection characteristic Surge current capacity Moltage type Moltage tereorety switching neutral conductor Moltage targory Moltage category Moltage type category Moltage category Moltage type category Moltage category Moltage type category Moltage type category Moltage category Mol	Rated short-circuit breaking capacity according to IEC 60947-2	kA	0
Surge current capacity AC Voltage type AC Frequency Release characteristic Concurrently switching neutral conductor With interlocking device No Over voltage category Pollution degree Ambient temperature during operating With in number of modular spacings Suilt-in depth Filsh-mounted installation Anti-nuisance tripping version Degree of protection (IP) Connectable conductor cross section solid-core MA AC C AC C C C C C C C C C	Rated short-circuit breaking capacity Icn according to EN 61009-1	kA	6
AC 10 10 10 10 10 10 10 10 10 10 10 10 10	Disconnection characteristic		Undelayed
Frequency Release characteristic Concurrently switching neutral conductor With interlocking device No Over voltage category Pollution degree Ambient temperature during operating With in number of modular spacings Built-in depth In unmaterial dept	Surge current capacity	kA	0.25
Release characteristic Concurrently switching neutral conductor With interlocking device No Over voltage category Collution degree Ambient temperature during operating Concurrently switching neutral conductor "C 25 - 40 With in number of modular spacings Suilt-in depth Mind the memorature during operating Mind the in number of modular spacings Suilt-in depth Mind the memorature during operating Mind the memorature during operating Mind the mumber of modular spacings Suilt-in depth Mind the memorature during operating Mind the memorature during operating Mind the mumber of modular spacings Suilt-in depth Mind the memorature during operating Mind the mumber of modular spacings Mind the mumber of modular spacings Suilt-in depth Mind the mumber of modular spacings Mind the memorature during operating operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the memorature during operating the mumber of modular spacings Mind the mumber of modular spacings Mind the mumber o	Voltage type		AC
Concurrently switching neutral conductor With interlocking device No Over voltage category Collution degree Combinent temperature during operating Collution number of modular spacings Collution depth Control of protection (IP) Connectable conductor cross section solid-core Yes No No 1 2 Connectable conductor cross section solid-core No Yes No 1 0 0 0 0 0 0 0 0 0 0 0 0	Frequency		50 Hz
With interlocking device Over voltage category Pollution degree Ambient temperature during operating or 2-25 - 40 Width in number of modular spacings Built-in depth Flush-mounted installation Anti-nuisance tripping version Overgree of protection (IP) Connectable conductor cross section solid-core No No No Poly Pol	Release characteristic		С
Over voltage category	Concurrently switching neutral conductor		Yes
Pollution degree 2 Ambient temperature during operating °C -25 - 40 Width in number of modular spacings 2 Suilt-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 **C*** -25 - 40 **Nidth in number of modular spacings** **Built-in depth** **mm** **69.5* **Iush-mounted installation** **Anti-nuisance tripping version** **No** **Degree of protection (IP)* **Connectable conductor cross section solid-core** **mm** **Incomparity of the protection of the protection solid-core* **mm** **Incomparity of the protection of the	Over voltage category		3
Width in number of modular spacings 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 No IP20 The section solid-core IP20 The section solid-core The section solid-core The section solid-core in mm²	Width in number of modular spacings		2
Anti-nuisance tripping version No Degree of protection (IP) Connectable conductor cross section solid-core mm² 1 - 25	Built-in depth	mm	69.5
Degree of protection (IP) Connectable conductor cross section solid-core 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
The state of the s	Connectable conductor cross section multi-wired	mm²	1 - 25