## DATASHEET - PFL6-16/1N/B/003



RCD/MCB combination, 16 A, 30 mA, MCB trip characteristic: B, 1p+N, RCD trip characteristic: AC



Part no. PFL6-16/1N/B/003 Catalog No. 286431

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Basic function  Number of poles  1 pole+N  Tripping characteristic  Application  Rated current  In A 16  Bated switching capacity according to IEC/EN 61009				
Tripping characteristic  Application  Rated current  B  Switchgear for residential and commercial applications  1	Basic function			Combined RCD/MCB devices
Application Switchgear for residential and commercial applications  Rated current In A 16	Number of poles			1 pole+N
Rated current In A 16	Tripping characteristic			В
, , , , , , , , , , , , , , , , , , ,	Application			Switchgear for residential and commercial applications
Rated switching capacity according to IEC/EN 61009	Rated current	In	Α	16
Titation of the first of the fi	Rated switching capacity according to IEC/EN 61009		kA	6
Rated fault current I $_{\Delta N}$ A 0.03	Rated fault current	$I_{\Delta N}$	Α	0.03
Type AC	Туре			Type AC
Tripping s non-delayed	Tripping		s	non-delayed
Product range PFL6	Productrange			PFL6
Sensitivity AC current sensitive	Sensitivity			AC current sensitive
Impulse withstand current Partly surge-proof 250 A	Impulse withstand current			Partly surge-proof 250 A

## **Technical data**

**Electrical** 

Sensitivity	AC current sensitive

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

Design verification as per IEG/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	16
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	3.2
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 8.0**

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Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)		
Electric engineering, automation, process control engineering / Electrical installa [AFZ810015])	ition, device / Residual	current protection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07
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	А	16
Rated fault current	А	0.03
Leakage current type		AC
Current limiting class		3
Rated short-circuit breaking capacity according to EN 61009	kA	6
Rated short-circuit breaking capacity according to IEC 60947-2	kA	0
Rated short-circuit breaking capacity Icn according to EN 61009-1	kA	6
Disconnection characteristic		Undelayed
Surge current capacity	kA	0.25
Voltage type		AC
Frequency		50 Hz
Release characteristic		В
Concurrently switching neutral conductor		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	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
Connectable conductor cross section multi-wired	mm²	1 - 25