DATASHEET - PFL7-16/1N/B/003-A-DE



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



Part no.

PFL7-16/1N/B/003-A-DE 263535

Similar to illustration

Product name	Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection
Part no.	PFL7-16/1N/B/003-A-DE
EAN	4015082635350
Product Length/Depth	72 millimetre
Product height	82 millimetre
Product width	35.4 millimetre
Product weight	0.203 kilogram
Compliances	CE Marked RoHS conform
Certifications	CE
Product Tradename	xPole - PFL6/7
Product Type	RCBO - Residual-current circuit breaker with overcurrent protection
Product Sub Type	None
Application	Switchgear for residential and commercial applications
Product range	PFL7
Basic function	Combined RCD/MCB devices
Number of poles	Single-pole + N
Number of poles (protected)	1
Number of poles (total)	2
Tripping characteristic	В
Release characteristic	В
Rated current	16 A
Fault current rating	0.03 A
Sensitivity type	Type A, pulse-current sensitive
Туре	RCBO
Voltage type	AC
Voltage rating	230 V
Rated operational voltage (Ue) - max	230 V
Rated insulation voltage (Ui)	440 V
Rated impulse withstand voltage (Uimp)	4 kV
Impulse withstand current	Partly surge-proof, 250 A
Frequency rating	50 Hz
Leakage current type	A
Rated switching capacity	10 kA
Rated switching capacity (IEC/EN 61009)	10 kA
Rated short-circuit breaking capacity (EN 60947-2)	0 kA
Rated short-circuit breaking capacity (EN 61009)	10 kA
Rated short-circuit breaking capacity (EN 61009-1)	10 kA
Rated short-circuit breaking capacity (IEC 60947-2)	0 kA
Surge current capacity	0.25 kA
Disconnection characteristic	Undelayed
Tripping	Non-delayed
Pollution degree	2

Width in number of modular spacings	2
Built-in depth	69.5 mm
Degree of protection	IP20
Connectable conductor cross section (solid-core) - min	1 mm ²
Connectable conductor cross section (solid-core) - max	25 mm ²
Connectable conductor cross section (multi-wired) - min	1 mm ²
Connectable conductor cross section (multi-wired) - max	25 mm ²
Rated operational current for specified heat dissipation (In)	16 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	3.2 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - max	40 °C
Ambient operating temperature - min	-25 °C
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.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.6 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.
10.9.2 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.
Current limiting class	3
Features	Concurrently switching N-neutral

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 ٧ 230 Rated insulation voltage Ui ٧ 440 Rated impulse withstand voltage Uimp kV 4 А Rated current 16 Rated fault current А 0.03 Leakage current type А Current limiting class 3

Rated short-circuit breaking capacity lac according to EK 60097-2 KA 0 Rated short-circuit breaking capacity lac according to EK 6009-1 KA 10 Disconnection characteristic Indelayed Indelayed Surge current capacity KA 25 Voltage type Sold Sold Frequency Sold Sold Release characteristic Sold Sold Concurrent syniching neutral conductor Sold Sold Vith interlocking device Sold Sold Pollution degree Sold Sold Rubit interperture during operating Sold Sold With in number of modular spacings Sold Sold Built-in depth Sold Sold Sold Rubit number of modular spacings Sold Sold Sold Rubit number of modular spacings Sold Sold Sold Rubit number of modular spacings Sold Sold </th <th></th> <th></th> <th></th>			
Rede short-circuit breaking capacity Icn according to EN 61009-1 KA Idelayed Disconnection characteristic Valoage type Valoage type Valoage type Voltage type KA 05 Surge current capacity Surge curre	Rated short-circuit breaking capacity according to EN 61009	kA	10
Disconnection characteristic Image: Marce Market Mark	Rated short-circuit breaking capacity according to IEC 60947-2	kA	0
ka ka ka Voltage type KA Ø2 Voltage type KA Ø2 Frequency KA Ø2 Release characteristic KA Ø2 Concurrently switching neutral conductor KA Ø2 With interlocking device KA Ø3 Over voltage category Voltage type No Pollution degree Voltage type Ø2 With in number of modular spacings Managet type YE Buil-in degth Managet type YE Russence tripping version Managet type YE Degree of protection (IP) Managet type No Connectable conductor cross section solid-core Managet type YE	Rated short-circuit breaking capacity Icn according to EN 61009-1	kA	10
Voltage type AC Frequency 6H 5H 5H Release characteristic 5H 5H 5H Concurrently switching neutral conductor Feedow 5H 5H With interlocking device Feedow 5H 5H Over voltage category Feedow 5H 5H Pollution degree Feedow 5H 5H Anbient temperature during operating Feedow 5H 5H Built-in depth Feedow 5H 5H Fush-mounted installation Feedow 5H 5H Anti-nuisance tripping version Feedow Feedow 5H Degree of protection (IP) Feedow Feedow 5H Connectable conductor cross section solid-core Feedow 125 5H	Disconnection characteristic		Undelayed
Frequency Image: Construction of the sector of the sec	Surge current capacity	kA	0.25
Release characteristic B B Release characteristic F B Concurrently switching neutral conductor Ves Ves With interlocking device No S Over voltage category S S Pollution degree C S S Ambient temperature during operating C S S With in number of modular spacings C S S Built-in depth Mm S S Fush-mounted installation Mm S S Anti-nuisance tripping version Mm S No Degree of protection (IP) mm Mm S Rune acteur on space (S) mm No S Rune acteur on space (S) Mm S S	Voltage type		AC
Concurrently switching neutral conductor File File With interlocking device No Over voltage category 3 Pollution degree 2 Ambient temperature during operating File With in number of modular spacings File Built-in depth File Fush-mounted installation File Anti-nuisance tripping version File Degree of protection (IP) File Concurted le conductor cross section solid-core File	Frequency		50 Hz
With interlocking deviceNoOver voltage category3Pollution degree2Ambient temperature during operating°CVidth in number of modular spacings°CBuilt-in depth9Fush-mounted installationMmmAnt-inuisance tripping versionMinDegree of protection (IP)Imm²Indext125	Release characteristic		В
Over voltage categorySSSPollution degreeC22Ambient temperature during operatingC22Witch in number of modular spacingsC92Buit-in depthmm69.55Fush-mounted installationCNNoAnti-nuisance tripping versionCN120Degree of protection (IP)mm²125125	Concurrently switching neutral conductor		Yes
Pollution degree 2 Ambient temperature during operating °C 25 - 40 Width in number of modular spacings 6 °C 2 Built-in depth mm 89.5 80.5 Flush-mounted installation M No No Polgree of protection (IP) mm ² 125	With interlocking device		No
Ambient temperature during operating°C25 - 40Width in number of modular spacings°C2Buit-in depthmm69.5Fush-mounted installationCNoAnti-nuisance tripping versionCFDegree of protection (IP)IP20Connectable conductor cross section solid-coremm²1.25	Over voltage category		3
Width in number of modular spacings mm 2 Built-in depth mm 69.5 Flush-mounted installation M M Anti-nuisance tripping version M M Degree of protection (IP) Mm ² 1.25	Pollution degree		2
Built-in depthmm69.5Flush-mounted installationNoNoAnti-nuisance tripping versionMNoDegree of protection (IP)MIP20Connectable conductor cross section solid-coremm²1.25	Ambient temperature during operating	°C	-25 - 40
Flush-mounted installation Mo Anti-nuisance tripping version Mo Degree of protection (IP) Mo Connectable conductor cross section solid-core mm ²	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 mm ²	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