

**RCD/MCB combination, 10 A, 30 mA, MCB trip characteristic: B, 1p+N,
RCD trip characteristic: AC**

**Part no. PFL6-10/1N/B/003
286429**

Similar to illustration

General specifications		
Product name		Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection
Part no.		PFL6-10/1N/B/003
EAN		4015082864293
Product Length/Depth		86 millimetre
Product height		75 millimetre
Product width		37 millimetre
Product weight		0.225 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
Delivery program		
Application		Switchgear for residential and commercial applications
Product range		PFL6
Basic function		Combined RCD/MCB devices
Number of poles		Single-pole + N
Number of poles (protected)		1
Number of poles (total)		2
Tripping characteristic		B
Release characteristic		B
Rated current		10 A
Fault current rating		0.03 A
Sensitivity type		Type AC, AC current sensitive.
Type		RCBO
Technical Data - Electrical		
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		AC
Rated switching capacity		6 kA
Rated switching capacity (IEC/EN 61009)		6 kA
Rated short-circuit breaking capacity (EN 60947-2)		0 kA
Rated short-circuit breaking capacity (EN 61009)		6 kA
Rated short-circuit breaking capacity (EN 61009-1)		6 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
Technical Data - Mechanical		
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
Design verification as per IEC/EN 61439 - technical data		
Rated operational current for specified heat dissipation (I _n)		10 A
Heat dissipation per pole, current-dependent		0 W
Equipment heat dissipation, current-dependent		2.5 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
Design verification as per IEC/EN 61439		
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.
Additional information		
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	V		230
Rated insulation voltage U _i	V		440
Rated impulse withstand voltage U _{imp}	kV		4
Rated current	A		10
Rated fault current	A		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 I _{cn} according to EN 61009-1	kA	6
Disconnection characteristic		Undelayed
Surge current capacity	kA	0.25
Voltage type		AC
Frequency		50 Hz
Release characteristic		B
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	mm ²	1 - 25
Connectable conductor cross section multi-wired	mm ²	1 - 25