

**RCD/MCB combination, 25 A, 30 mA, MCB trip characteristic: C, 1p+N,  
RCD trip characteristic: AC**



**Part no. PFL6-25/1N/C/003  
286469**

Similar to illustration

Product name	Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection
Part no.	PFL6-25/1N/C/003
EAN	4015082864699
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
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	C
Release characteristic	C
Amperage Rating	25 A
Rated current	25 A
Fault current rating	0.03 A
Sensitivity type	Type AC, AC current sensitive.
Type	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	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
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 <sup>2</sup>
Connectable conductor cross section (solid-core) - max			25 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - min			1 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - max			25 mm <sup>2</sup>
Rated operational current for specified heat dissipation (I <sub>n</sub> )			25 A
Heat dissipation per pole, current-dependent			0 W
Equipment heat dissipation, current-dependent			4.8 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	V		230
Rated insulation voltage U <sub>i</sub>	V		440
Rated impulse withstand voltage U <sub>imp</sub>	kV		4
Rated current	A		25
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 <sub>cn</sub> according to EN 61009-1	kA	6
Disconnection characteristic		Undelayed
Surge current capacity	kA	0.25
Voltage type		AC
Frequency		50 Hz
Release characteristic		C
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 <sup>2</sup>	1 - 25
Connectable conductor cross section multi-wired	mm <sup>2</sup>	1 - 25