

Residual current circuit breaker (RCCB), 100A, 4p, 300mA, type A

Part no. **PFIM-100/4/03-A**
102871
 EL Number **1609359**
 (Norway)

General specifications		
Product name		Eaton Moeller series xPole - PFIM Type AC, A, U, R RCCB
Part no.		PFIM-100/4/03-A
EAN		4015081027163
Product Length/Depth		80 millimetre
Product height		76 millimetre
Product width		70 millimetre
Product weight		0.381 kilogram
Compliances		RoHS conform
Certifications		IEC/EN 61008
Product Tradename		xPole - PFIM Type AC, A, U, R
Product Type		RCCB
Product Sub Type		None
Delivery program		
Application		Residual current circuit breaker for residential and commercial applications xPole - Switchgear for residential and commercial applications
Number of poles		Four-pole
Tripping time		Non-delayed
Amperage Rating		100 A
Rated short-circuit strength		10 kA
Fault current rating		300 mA
Sensitivity type		Pulse-current sensitive
Impulse withstand current		Partly surge-proof 250 A
Type		PFIM Residual current circuit breakers Type A
Technical Data - Electrical		
Voltage rating		230 V AC / 400 V AC
Rated operational voltage (Ue) - max		400 V
Rated insulation voltage (Ui)		440 V
Rated impulse withstand voltage (Uimp)		4 kV
Rated fault current - min		0.3 A
Rated fault current - max		0.3 A
Frequency rating		50 Hz
Short-circuit rating		100 A (max. admissible back-up fuse)
Leakage current type		A
Rated residual making and breaking capacity		1000 A
Admissible back-up fuse overload - max		80 A gG/gL
Rated short-time withstand current (Icw)		10 kA
Surge current capacity		0.25 kA
Test circuit range		196 V AC - 456 V AC
Pollution degree		2
Lifespan, electrical		4000 operations
Technical Data - Mechanical		
Frame		45 mm
Width in number of modular spacings		4
Built-in width (number of units)		70 mm (4 SU)
Built-in depth		70.5 mm
Mounting Method		Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715

		DIN rail
Degree of protection		IP20, IP40 with suitable enclosure IP20
Terminals (top and bottom)		Open mouthed/lift terminals
Terminal capacity (solid wire)		1.5 mm ² - 35 mm ²
Connectable conductor cross section (solid-core) - min		1.5 mm ²
Connectable conductor cross section (solid-core) - max		35 mm ²
Terminal capacity (stranded cable)		16 mm ² (2x)
Connectable conductor cross section (multi-wired) - min		1.5 mm ²
Connectable conductor cross section (multi-wired) - max		16 mm ²
Terminal protection		Finger and hand touch safe, DGUV VS3, EN 50274
Busbar material thickness		0.8 mm - 2 mm
Lifespan, mechanical		20000 operations
Permitted storage and transport temperature - min		-35 °C
Permitted storage and transport temperature - max		60 °C
Climatic proofing		25-55 °C / 90-95% relative humidity according to IEC 60068-2
Design verification as per IEC/EN 61439 - technical data		
Rated operational current for specified heat dissipation (I _n)		100 A
Heat dissipation per pole, current-dependent		0 W
Equipment heat dissipation, current-dependent		18.8 W
Static heat dissipation, non-current-dependent		0 W
Heat dissipation capacity		0 W
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		60 °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.
10.2.3.2 Verification of resistance of insulating materials to normal heat		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.
10.5 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.
10.9.2 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		
Accessories required		Z-HK 248432
Features		Residual current circuit breaker Additional equipment possible
Fitted with:		Interlocking device
Special features		Maximum operating temperature is 60 °C: Starting at 40 °C, the max. permissible continuous current decreases by 1.2% for every 1 °C Tripping signal contact for subsequent installation Z-NHK 248434

Used with		Residual current circuit breakers Type A PFIM KLV-TC-4 276241 (Compact enclosure) Z-FW/LP 248296 (Remote control and automatic switching device) Z-RC/AK-4MU 101062 (sealing cover set)
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Technical data ETIM 9.0

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)		
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ecI@ss13-27-14-22-01 [AAB906019])		
Number of poles		4
Rated voltage	V	400
Rated current	A	100
Rated fault current	A	0.3
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Power loss	W	18.8
Mounting method		DIN rail
Leakage current type		A
Selective protection		No
Short-time delayed tripping		No
Short-circuit breaking capacity (Icw)	kA	10
Surge current capacity	kA	0.25
Voltage type		AC
With interlocking device		Yes
Frequency		50 Hz
Additional equipment possible		Yes
Degree of protection (IP)		IP20
Width in number of modular spacings		4
Built-in depth	mm	70.5
Ambient temperature during operating	°C	-25 - 60
Pollution degree		2
Connectable conductor cross section multi-wired	mm ²	1.5 - 16
Connectable conductor cross section solid-core	mm ²	1.5 - 35
RAL-number (similar)		7035
Explosion-proof		No