

Residual current circuit breaker (RCCB), 25A, 2p, 300mA, type AC

Part no. PFIM-25/2/03-MW
235392

General specifications		
Product name		Eaton Moeller series xPole - PFIM Type AC, A, U, R RCCB
Part no.		PFIM-25/2/03-MW
EAN		4015082353926
Product Length/Depth		80 millimetre
Product height		76 millimetre
Product width		35 millimetre
Product weight		0.181 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		Two-pole
Tripping time		Non-delayed
Amperage Rating		25 A
Rated short-circuit strength		10 kA
Fault current rating		300 mA
Sensitivity type		AC current sensitive
Impulse withstand current		Partly surge-proof 250 A
Type		PFIM Residual current circuit breakers Type AC
Technical Data - Electrical		
Voltage rating		230 V AC
Rated operational voltage (Ue) - max		230 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		63 A (max. admissible back-up fuse)
Leakage current type		AC
Rated residual making and breaking capacity		500 A
Admissible back-up fuse overload - max		25 A gG/gL
Rated short-time withstand current (Icw)		10 kA
Surge current capacity		0.25 kA
Test circuit range		196 V AC - 264 V AC
Pollution degree		2
Lifespan, electrical		4000 operations
Technical Data - Mechanical		
Frame		45 mm
Width in number of modular spacings		2
Built-in width (number of units)		35 mm (2 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 IP20, IP40 with suitable enclosure
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)	25 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	1.3 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	55 °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	Additional equipment possible Residual current circuit breaker
Fitted with:	Interlocking device
Special features	Maximum operating temperature is 55 °C: Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C Tripping signal contact for subsequent installation Z-NHK 248434
Used with	KLV-TC-2 276240 (Compact enclosure) Z-FW/LP 248296 (Remote control and automatic switching device)

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) (ecl@ss13-27-14-22-01 [AAB906019])			
Number of poles			2
Rated voltage	V		230
Rated current	A		25
Rated fault current	A		0.3
Rated insulation voltage U_i	V		440
Rated impulse withstand voltage U_{imp}	kV		4
Power loss	W		1.3
Mounting method			DIN rail
Leakage current type			AC
Selective protection			No
Short-time delayed tripping			No
Short-circuit breaking capacity (I_{cw})	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			2
Built-in depth	mm		70.5
Ambient temperature during operating	°C		-25 - 55
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