Residual current circuit breaker (RCCB), 25A, 2p, 30mA, type A



Part no. PFIM-25/2/003-A-MW

235424

EL Number (Norway) 1609311

(Norway)	
Product name	Eaton Moeller series xPole - PFIM Type AC, A, U, R RCCB
Part no.	PFIM-25/2/003-A-MW
EAN	4015082354244
Product Length/Depth	80 millimetre
Product height	76 millimetre
Product width	35 millimetre
Product weight	0.189 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 61008
Product Tradename	xPole - PFIM Type AC, A, U, R
Product Type	RCCB
Product Sub Type	None
Globally Marketable	Yes
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	30 mA
Sensitivity type	Pulse-current sensitive
Impulse withstand current	Partly surge-proof 250 A
Туре	PFIM Residual current circuit breakers Type A
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	0.03 A
Rated fault current - max	0.03 A
Frequency rating	50 Hz
Short-circuit rating	63 A (max. admissible back-up fuse)
Leakage current type	A
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
2	1000 Operations
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
Degree of protection	DIN rail IP20, IP40 with suitable enclosure
begree or protection	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 mm² (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	0° C
Climatic proofing	25-55 °C / 90-95% relative humidity according to IEC 60068-2
Rated operational current for specified heat dissipation (In)	25 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	2 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
Ambient operating temperature max	
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 b observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Accessories required	Z-HK 248432
Features	Additional equipment possible
i catules	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

Residual current circuit breakers
PFIM
Type A
KLV-TC-2 276240 (Compact enclosure)
Z-FW/LP 248296 (Remote control and automatic switching device)
Z-RC/AK-2MU 285385 (sealing cover set)

Technical data ETIM 8.0

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@ss10.0.1-27-14-22-01 [AAB906014])

Rated voltage V 230 Rated current A 25 Rated fault current A 0.03 Rated insulation voltage Uin V 440 Rated impulse withstand voltage Uimp kV 4 Mounting method DIN rail Leakage current type No No Selective protection No No Short-circuit breaking capacity (lcw) KA 10 Surge current capacity KA 0.25 Voltage type Yes Yes With interlocking device Yes 50 Hz Frequency Yes 50 Hz Additional equipment possible Yes 120 Degree of protection (IP) Yes 120 With in number of modular spacings Yes 25 - 55 Bull-in depth mm 70.5 Ambient temperature during operating "C 25 - 55 Connectable conductor cross section multi-wired mm 1.5 - 16 Connectable conductor cross section solid-core mm 1.5	(ecl@ss10.0.1-27-14-22-01 [AAB906014])		
Rated current A 25 Rated fault current A 0.03 Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Mounting method kV 4 Leakage current type A No Selective protection No No Short-time delayed tripping kA 10 Surge current capacity (low) kA 0.25 Voltage type KA 0.25 With interlocking device Yes Yes Frequency 50 Hz Yes Additional equipment possible Yes Yes Degree of protection (IP) IP20 IP20 With in number of modular spacings IP20 IP20 Bull-in depth mm 70.5 Ambient temperature during operating "C 25-55 Pollution degree 25-55 IP20 Connectable conductor cross section solid-core mm 15-16 Connectable conductor cross section solid-core mm <	Number of poles		2
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Rated insulation voltage Uin V 440 Rated impulse withstand voltage Uimp kV 4 Mounting method KD A Leakage current type C A Selective protection No No Short-time delayed tripping KA 10 Short-circuit breaking capacity (lcw) KA 10 Surge current capacity KA 0.25 Voltage type AC Vers With interlocking device Yes Vers Frequency Yes Vers Additional equipment possible Yes Personance Degree of protection (IP) IP20 IP20 Width in number of modular spacings IP20 IP20 Bull-in depth IP20 IP20 Ambient temperature during operating *C 25-55 Pollution degree 2 25-55 Connectable conductor cross section solid-core IP20 IP20 Connectable conductor cross section solid-core IP20 IP20	Rated current	Α	25
Rated impulse withstand voltage Uimp kV 4 Mounting method Part of DIN rail A Leakage current type A A Selective protection No No Short-time delayed tripping No No Short-circuit breaking capacity (lcw) KA 10 Surge current capacity KA 0.25 Voltage type AC Ves Voltage type Yes Ves Additional equipment possible Yes Percuency Additional equipment possible Yes Percuency Vidith in number of modular spacings Yes Percuence of protection (IP) Yes Width in number of modular spacings Image: Protection of the	Rated fault current	Α	0.03
Mounting method Leakage current type Selective protection Short-time delayed tripping Short-circuit breaking capacity (Icw) Short-circuit breaking capacity (Icw) Surge current capacity Voltage type Voltage type Voltage type Voltage type AC With interlocking device Frequency Additional equipment possible Degree of protection (IP) Voltage type Voltage type Voltage type Voltage type Voltage type AC AC AC Voltage type AC	Rated insulation voltage Ui	V	440
Leakage current type Selective protection Short-time delayed tripping Short-circuit breaking capacity (lcw) Short-circuit breaking capacity (lcw) Short-circuit breaking capacity (lcw) Surge current capacity Voltage type Voltage type With interlocking device Frequency Additional equipment possible Degree of protection (IP) With in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Midditional equipment possible 1.5 - 16 1.5 - 35	Rated impulse withstand voltage Uimp	kV	4
Selective protection Short-time delayed tripping Short-circuit breaking capacity (Icw) Short-circuit breaking capacity (Icw) Surge current capacity Voltage type With interlocking device Frequency Additional equipment possible Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Connectable conductor cross section multi-wired Connectable conductor cross section solid-core No No No No No No No No No N	Mounting method		DIN rail
Short-time delayed tripping Short-circuit breaking capacity (Icw) Short-circuit breaking capacity (Icw) Surge current capacity Voltage type Voltage	Leakage current type		A
Short-circuit breaking capacity (Icw) Surge current capacity Voltage type With interlocking device Frequency Additional equipment possible Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Connectable conductor cross section multi-wired Connectable conductor cross section solid-core KA 0.25 AC Yes 50 Hz Yes 1P20 1P20 2 2 5 - 55 2 Connectable conductor cross section multi-wired Mm² 1.5 - 16 Connectable conductor cross section solid-core Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai Mai	Selective protection		No
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With interlocking device Frequency So Hz Additional equipment possible Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Connectable conductor cross section multi-wired Connectable conductor cross section solid-core With interlocking device Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Surge current capacity	kA	0.25
Frequency Additional equipment possible Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating Pollution degree Connectable conductor cross section solid-core Frequency So Hz Yes Pollution Pol Degree Pollution So To	Voltage type		AC
Additional equipment possible Degree of protection (IP) Width in number of modular spacings Built-in depth mm 70.5 Ambient temperature during operating Connectable conductor cross section solid-core Yes Pollution P20 2 2 Connectable conductor cross section solid-core mm² 1.5 - 35	With interlocking device		Yes
Degree of protection (IP) Width in number of modular spacings Built-in depth Ambient temperature during operating °C -25 - 55 Pollution degree Connectable conductor cross section multi-wired Connectable conductor cross section solid-core mm² 1.5 - 35	Frequency		50 Hz
Width in number of modular spacings Built-in depth mm 70.5 Ambient temperature during operating °C -25 - 55 Pollution degree Connectable conductor cross section multi-wired mm² 1.5 - 16 Connectable conductor cross section solid-core mm² 1.5 - 35	Additional equipment possible		Yes
Built-in depth mm 70.5 Ambient temperature during operating °C -25 - 55 Pollution degree 2 Connectable conductor cross section multi-wired mm² 1.5 - 16 Connectable conductor cross section solid-core mm² 1.5 - 35	Degree of protection (IP)		IP20
Ambient temperature during operating °C -25 - 55 Pollution degree 2 Connectable conductor cross section multi-wired mm² 1.5 - 16 Connectable conductor cross section solid-core mm² 1.5 - 35	Width in number of modular spacings		2
Pollution degree 2 Connectable conductor cross section multi-wired mm² 1.5 - 16 Connectable conductor cross section solid-core mm² 1.5 - 35	Built-in depth	mm	70.5
Connectable conductor cross section multi-wired mm² 1.5 - 16 Connectable conductor cross section solid-core mm² 1.5 - 35	Ambient temperature during operating	°C	-25 - 55
Connectable conductor cross section solid-core mm² 1.5 - 35	Pollution degree		2
	Connectable conductor cross section multi-wired	mm²	1.5 - 16
Explosion-proof No	Connectable conductor cross section solid-core	mm²	1.5 - 35
	Explosion-proof		No