Residual current circuit breaker (RCCB), 80A, 4p, 300mA, type AC



Part no. PFIM-80/4/03-MW 235420

Eaton Moeller series xPole - PFIM Type AC, A, U, R RCCB
PFIM-80/4/03-MW
4015082354206
80 millimetre
76 millimetre
70 millimetre
0.377 kilogram
RoHS conform
IEC/EN 61008
xPole - PFIM Type AC, A, U, R
RCCB
None
Residual current circuit breaker for residential and commercial applications xPole - Switchgear for residential and commercial applications
Four-pole
Non-delayed
80 A
10 kA
300 mA
AC current sensitive
Partly surge-proof 250 A
PFIM Residual current circuit breakers Type AC
230 V AC / 400 V AC
400 V
440 V
4 kV
0.3 A
0.3 A
50 Hz
80 A (max. admissible back-up fuse)
AC
800 A
50 A gG/gL
10 kA
0.25 kA
196 V AC - 456 V AC
2
4000 operations
45 mm
4
70 mm (4 SU)
70 mm (4 SU) 70.5 mm

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 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
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	80 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	11.4 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	0° 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 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	Type AC PFIM

Residual current circuit breakers KLV-TC-4 276241 (Compact enclosure) Z-FW/LP 248296 (Remote control and automatic switching device) Z-RC/AK-4MU 101062 (sealing cover set)

Technical data ETIM 9.0

Circuit breakers and fuses (FG00000) / Residual	

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])

(ecl@ss13-27-14-22-01 [AAB906019])					
Number of poles			4		
Rated voltage		V	400		
Rated current		Α	80		
Rated fault current		Α	0.3		
Rated insulation voltage Ui		V	440		
Rated impulse withstand voltage Uimp		kV	4		
Power loss		W	11.4		
Mounting method			DIN rail		
Leakage current type			AC		
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		mm²	1.5 - 16		
Connectable conductor cross section solid-core		mm²	1.5 - 35		
RAL-number (similar)			7035		
Explosion-proof			No		