

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

Part no. **PF7-100/4/03**
102927

Product name	Eaton Moeller series xPole - PF6/7 RCCB
Part no.	PF7-100/4/03
EAN	4015081027729
Product Length/Depth	80 millimetre
Product height	71 millimetre
Product width	70 millimetre
Product weight	0.32 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 61008
Product Tradename	xPole - PF6/7
Product Type	RCCB
Product Sub Type	None
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	AC current sensitive
Impulse withstand current	Partly surge-proof 250 A
Type	PF7 Residual current circuit breakers Type AC
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	AC
Rated residual making and breaking capacity	500 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	184 V AC - 440 V AC
Pollution degree	2
Lifespan, electrical	4000 operations
Frame	45 mm
Width in number of modular spacings	4
Built-in width (number of units)	70 mm (4 SU)
Built-in depth	69.5 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
Rated operational current for specified heat dissipation (In)		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
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.
Accessories required		Z-HK 248432
Features		Additional equipment possible Residual current circuit breaker
Fitted with:		Interlocking device IS/SPE-1TE 101911
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		KLV-TC-4 276241 (Compact enclosure) Z-FW/LP 248296 (Remote control and automatic switching device) Z-RC/AK-4TE 101062 (sealing cover set) Residual current circuit breakers

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

Number of poles		4
Rated voltage	V	400
Rated current	A	100
Rated fault current	A	0.3
Rated insulation voltage U_i	V	440
Rated impulse withstand voltage U_{imp}	kV	4
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		4
Built-in depth	mm	69.5
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
Explosion-proof		No