DATASHEET - PFR-5-110AC

Earth-leakage circuit-breaker 0, 03-5 A, 110AC

Part no. **PFR-5-110AC**
116963

General specifications	
Product name	Eaton Moeller series NZM release
Part no.	PFR-5-110AC
EAN	4015081167036
Product Length/Depth	80 millimetre
Product height	45 millimetre
Product width	95 millimetre
Product weight	0.187 kilogram
Compliances	RoHS conform IEC
Certifications	IEC 755 IEC 1009 IEC 1008 IEC/EN 60947-2
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release
Delivery program	
Type	Accessory Residual current relays Voltage release
Features	Sealable, setting buttons 1 integrated changeover contact (relay contact)
Special features	Adjustable fault current and delay time Fault current early warning by flashing, red LED Pulse-current sensitive Integrated auxiliary contact (1 C/O) Ring-type transformer must also be ordered not UL/CSA approved
Frame	NZM1/2/3/4 45 mm
Technical Data - Electrical	
Sensitivity type	Pulse current sensitive, type A
Voltage rating of relay contact	250 V AC / 100 V DC
Rated operating voltage (Ue) - max	132 V
Rated control supply voltage (Us) at AC, 50 Hz - min	88 V
Rated control supply voltage (Us) at AC, 50 Hz - max	132 V
Rated control supply voltage (Us) at AC, 60 Hz - min	88 V
Rated control supply voltage (Us) at AC, 60 Hz - max	132 V
Rated control supply voltage (Us) at DC - min	0 V
Rated control supply voltage (Us) at DC - max	0 V
Current rating of relay contact	6 A
Rated fault current - min	0.03 A
Rated fault current - max	5 A
Power consumption	3 W
Delay time	0.02, 0.1, 0.3, 0.5, 1, 3, 5 ms
Power on-delay time - min	5000 ms
Power on-delay time - max	5000 ms
Technical Data - Mechanical	
Device width	85 mm
Mounting Method	Snap fixing, top-hat rail DIN 46277, IEC/EN 60715
Terminal protection	Finger/back-of-hand proof to BGV A2, VDE 106 part 100
Special features	Adjustable fault current and delay time Fault current early warning by flashing, red LED Pulse-current sensitive Integrated auxiliary contact (1 C/O) Ring-type transformer must also be ordered not UL/CSA approved
Technical Data - Mechanical - Terminals	
Terminals (top and bottom)	Box terminals

Terminal capacity (solid/flexible conductor)			0.75 mm^2 - 1.5 mm^2 (2x) with ferrules 0.75 mm^2 - 2.5 mm^2 (2x) solid, 0.75 mm^2 - 1.5 mm^2 (2x) flexible/with ferrules
Design verification as per IEC/EN 61439 - technical data			
Ambient operating temperature - min			-10 °C
Ambient operating temperature - max			50 °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			
Functions			Delay adjustable

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Residual current release for power circuit breaker (EC001021)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Fault current switch for circuit breakers (ecl@ss13-27-37-04-11 [AKF009018])		
Rated control supply voltage AC 50 Hz	V	88 - 132
Rated control supply voltage AC 60 Hz	V	88 - 132
Rated control supply voltage DC	V	0 - 0
Rated fault current	A	0.03 - 5
Max. power on-delay time	ms	5000
Delay adjustable		Yes
Max. rated operation voltage Ue	V	132