



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

Part no. ELR-5
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 (ecI@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