Earth-fault release, 0.03-3A, 3p, right



Part no. NZM1-XFIR 104605

General specifications	
Product name	Eaton Moeller series NZM release
Part no.	NZM1-XFIR
EAN	4015081044153
Product Length/Depth	220 millimetre
Product height	80 millimetre
Product width	105 millimetre
Product weight	1.6 kilogram
Compliances	IEC
	RoHS conform
Certifications	IEC/EN 60947-2 IEC/EN 60947-2 annex B
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release
Delivery program	
Application	In three-phase systems
Туре	Accessory Earth-fault releases
Number of poles	Three-pole
Features	Sealable, setting buttons
Special features	Earth-fault release to IEC/EN 60947-2 Not UL/CSA approved Suitable for use in three-phase systems Pulse-current sensitive type A according to core-balance principle For 3 pole NZM1 circuit-breakers and N1 switch-disconnectors Supply voltage-dependent Ue = 200 $-$ 415 V 50/60 Hz Control knobs, sealable. Fitted on the right side up to In = 160 A at ICu = 50 kA
Frame	45 mm NZM1
Used with	N(S)1 Three-pole NZM1
Technical Data - Electrical	
Sensitivity type	Pulse-current sensitive as per core-balance principle (type A)
Voltage rating	200 - 415 V AC, min. 80 V AC for detection of fault currents type A/AC (dependent or mains voltage)
Rated operating voltage (Ue) - max	415 V
Rated control supply voltage (Us) at AC, 50 Hz - min	200 V
Rated control supply voltage (Us) at AC, 50 Hz - max	415 V
Rated control supply voltage (Us) at AC, 60 Hz - min	200 V
Rated control supply voltage (Us) at AC, 60 Hz - max	415 V
Rated control supply voltage (Us) at DC - min	0 V
Rated control supply voltage (Us) at DC - max	0 V
Current rating - min	15 A
Current rating - max	160 A
Rated fault current - min	0.03 A
Rated fault current - max	3 A
Fault current detection range	50/60 Hz
Frequency rating	50 Hz / 60 Hz
Power on-delay time - min	30 ms
Power on-delay time - max	30 ms
Technical Data - Mechanical	
Mounting Method	On the right side
Mounting position	Vertical and 90° in all directions

Degree of protection	IP20 (operating component area)	
Shock resistance	20 g (half-sinusoidal shock 20 ms)	
Special features	Earth-fault release to IEC/EN 60947-2 Not UL/CSA approved Suitable for use in three-phase systems Pulse-current sensitive type A according to core-balance principle For 3 pole NZM1 circuit-breakers and N1 switch-disconnectors Supply voltage-dependent Ue = 200 $-$ 415 V 50/60 Hz Control knobs, sealable. Fitted on the right side up to In = 160 A at ICu = 50 kA	
Lifespan, mechanical	20000 operations	
Technical Data - Mechanical - Terminals		
Terminal capacity (solid/flexible conductor)	As NZM1 standard terminal with ferrules As NZM1 standard terminal without ferrules	
Design verification as per IEC/EN 61439 - technical data		
Ambient operating temperature - min	-5 °C	
Ambient operating temperature - max	40 °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	200 - 415
Rated control supply voltage AC 60 Hz	V	200 - 415
Rated control supply voltage DC	V	0 - 0
Rated fault current	Α	0.03 - 3
Max. power on-delay time	ms	30
Delay adjustable		Yes
Max. rated operation voltage Ue	V	415