



Earth-fault release, 300mA, 4p, bottom

Part no. **NZM1-4-XFI300U**
104613

General specifications		
Product name		Eaton Moeller series NZM release
Part no.		NZM1-4-XFI300U
EAN		4015081044238
Product Length/Depth		180 millimetre
Product height		80 millimetre
Product width		120 millimetre
Product weight		0.9 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
Type		Accessory Earth-fault releases
Number of poles		Four-pole
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 4 pole NZM1-4 circuit-breakers and N1-4 switch-disconnectors Supply voltage-dependent $U_e = 200 - 415\text{ V } 50/60\text{ Hz}$ Control knobs, sealable. Bottom mounting up to 100 A
Frame		NZM1 45 mm
Used with		Four-pole NZM1-4 N1-4
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 on mains voltage)
Rated operating voltage (U_e) - max		415 V
Rated control supply voltage (U_s) at AC, 50 Hz - min		200 V
Rated control supply voltage (U_s) at AC, 50 Hz - max		415 V
Rated control supply voltage (U_s) at AC, 60 Hz - min		200 V
Rated control supply voltage (U_s) at AC, 60 Hz - max		415 V
Rated control supply voltage (U_s) at DC - min		0 V
Rated control supply voltage (U_s) at DC - max		0 V
Current rating - min		15 A
Current rating - max		100 A
Rated fault current - min		0.3 A
Rated fault current - max		0.3 A
Fault current detection range		50/60 Hz
Frequency rating		50 Hz / 60 Hz
Power on-delay time - min		300 ms
Power on-delay time - max		300 ms
Technical Data - Mechanical		
Mounting Method		Bottom

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 4 pole NZM1-4 circuit-breakers and N1-4 switch-disconnectors Supply voltage-dependent Ue = 200 – 415 V 50/60 Hz Control knobs, sealable. Bottom mounting up to 100 A
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.

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	A	0.3 - 0.3
Max. power on-delay time	ms	300
Delay adjustable		No
Max. rated operation voltage Ue	V	415