

Earth-fault release, 0.3-1A AC/DC sensitive, 4p



**Part no.**                    **NZM2-4-XFIA**  
**292346**

<b>General specifications</b>		
Product name		Eaton Moeller series NZM release
Part no.		NZM2-4-XFIA
EAN		4015082923464
Product Length/Depth		132 millimetre
Product height		103 millimetre
Product width		140 millimetre
Product weight		2.03 kilogram
Compliances		IEC RoHS conform
Certifications		IEC/EN 60947-2 annex B IEC/EN 60947-2
Product Tradename		NZM
Product Type		Accessories
Product Sub Type		Release
<b>Delivery program</b>		
Application		In three- and single-phase systems
Type		Accessory Earth-fault releases
Number of poles		Four-pole
Features		Sealable, setting buttons
Special features		Core-balance principle with AC/DC sensitivity (in range 0 - 100 kHz) For 4 pole NZM2-4 circuit-breakers and N2-4 switch-disconnectors Internal power supply Us = 50 - 400 V
Frame		96 mm NZM2
Used with		NZM2-4 N2-4 Four-pole
<b>Technical Data - Electrical</b>		
Sensitivity type		Sensitive to AC/DC (type B)
Voltage rating		50 - 400 V AC (independent of mains voltage)
Voltage rating at DC		50 V DC (dependent on mains voltage)
Rated operating voltage (Ue) - max		400 V
Rated control supply voltage (Us) at AC, 50 Hz - min		50 V
Rated control supply voltage (Us) at AC, 50 Hz - max		400 V
Rated control supply voltage (Us) at AC, 60 Hz - min		50 V
Rated control supply voltage (Us) at AC, 60 Hz - max		400 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		250 A
Rated fault current - min		0.3 A
Rated fault current - max		1 A
Fault current detection range		With AC voltage: 0 - 100 kHz With pulsed DC voltage: 50 Hz
Frequency rating		50 Hz
Power on-delay time - min		100 ms
Power on-delay time - max		100 ms
<b>Technical Data - Mechanical</b>		
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		Core-balance principle with AC/DC sensitivity (in range 0 - 100 kHz) For 4 pole NZM2-4 circuit-breakers and N2-4 switch-disconnectors Internal power supply Us = 50 - 400 V
Lifespan, mechanical		≥ 2000 operations
<b>Technical Data - Mechanical - Terminals</b>		
Terminal capacity (solid/flexible conductor)		As NZM2 standard connection with ferrules As NZM2 standard terminal without ferrules
<b>Design verification as per IEC/EN 61439 - technical data</b>		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		70 °C
<b>Design verification as per IEC/EN 61439</b>		
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.
<b>Additional information</b>		
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		50 - 400
Rated control supply voltage AC 60 Hz	V		50 - 400
Rated control supply voltage DC	V		0 - 0
Rated fault current	A		0.3 - 1
Max. power on-delay time	ms		100
Delay adjustable			Yes
Max. rated operation voltage Ue	V		400