

Earth-fault release, 30mA, 4p



**Part no. NZM2-4-XFI30
292343**

General specifications	
Product name	Eaton Moeller series NZM release
Part no.	NZM2-4-XFI30
EAN	4015082923433
Product Length/Depth	132 millimetre
Product height	103 millimetre
Product width	140 millimetre
Product weight	2.504 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
Delivery program	
Application	In three- and single-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- and single-phase systems Pulse-current sensitive according to core-balance principle For 4 pole NZM2-4 circuit-breakers and N2-4 switch-disconnectors Supply voltage-dependent Ue = 280 – 690 V 50 Hz
Frame	96 mm NZM2
Used with	NZM2-4 Four-pole N2-4
Technical Data - Electrical	
Sensitivity type	Pulse-current sensitive as per core-balance principle (type A)
Voltage rating	280 - 690 V AC (independent of mains voltage)
Rated operating voltage (Ue) - max	690 V
Rated control supply voltage (Us) at AC, 50 Hz - min	280 V
Rated control supply voltage (Us) at AC, 50 Hz - max	690 V
Rated control supply voltage (Us) at AC, 60 Hz - min	0 V
Rated control supply voltage (Us) at AC, 60 Hz - max	0 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	0.03 A
Rated fault current - max	0.03 A
Fault current detection range	50 Hz
Frequency rating	50 Hz
Power on-delay time - min	30 ms
Power on-delay time - max	30 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)

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Lifespan, mechanical		≥ 2000 operations
Technical Data - Mechanical - Terminals		
Terminal capacity (solid/flexible conductor)		As NZM2 standard terminal without ferrules As NZM2 standard connection with ferrules
Design verification as per IEC/EN 61439 - technical data		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		70 °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	280 - 690
Rated control supply voltage AC 60 Hz	V	0 - 0
Rated control supply voltage DC	V	0 - 0
Rated fault current	A	0.03 - 0.03
Max. power on-delay time	ms	30
Delay adjustable		No
Max. rated operation voltage U _e	V	690