DATASHEET - NZM2-4-XFIA

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

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

Powering Business Worldwide

General specifications

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

Delivery program

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

Technical Data - Electrical

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

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			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
Technical Data - Mechanical - Terminals			
Terminal capacity (solid/flexible conductor)			As NZM2 standard connection with ferrules As NZM2 standard terminal without 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.
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	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