DATASHEET - NZM2/3-XA48AC/DC

Shunt release, 48VAC/DC

Part no. **NZM2/3-XA48AC/DC**
259756

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General specifications

Product name		Eaton Moeller series NZM release
Part no.		NZM2/3-XA48AC/DC
EAN		4015082597566
Product Length/Depth		42 millimetre
Product height		90 millimetre
Product width		30 millimetre
Product weight		0.064 kilogram
Compliances		UL/CSA IEC RoHS conform
Certifications		IEC60947 UL listed UL (File No. E140305) CSA-C22.2 No. 5-09 UL (Category Control Number DIHS) CSA certified CSA (File No. 22086) UL489 CSA (Class No. 1437-01) CE marking
Product Tradename		NZM
Product Type		Accessories
Product Sub Type		Release

Delivery program

Type		Accessory Shunt release
Special features		Switches are tripped by a voltage pulse or by the application of uninterrupted voltage. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
Frame		NZM2/3
Suitable for		Off-load switch
Used with		NZM3(-4), N(S)3(-4) NZM2(-4), N(S)2(-4)

Technical Data - Electrical

Voltage type		AC/DC
Voltage rating		0.7 - 1.1 x Us
Voltage rating at AC (x Us) - min		0.7
Voltage rating at AC (x Us) - max		1.1
Rated control voltage (relay contacts)		48 V AC 48 V DC
Rated control supply voltage		48 V AC/DC
Rated control supply voltage (Us) at AC, 50 Hz - min		48 V
Rated control supply voltage (Us) at AC, 50 Hz - max		48 V
Rated control supply voltage (Us) at AC, 60 Hz - min		48 V
Rated control supply voltage (Us) at AC, 60 Hz - max		48 V
Rated control supply voltage (Us) at DC - min		48 V
Rated control supply voltage (Us) at DC - max		48 V
Frequency rating		50 Hz / 60 Hz / 200 Hz / 400 Hz, DC (shunt release)
Pick-up power consumption (shunt release)		2.5 VA/W
Reaction time		20 ms
Time on duty - max		∞
Minimum command time - min		10 ms
Minimum command time - max		15 ms

Electric connection type		Screw connection

Technical Data - Mechanical

Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		0
Number of contacts (normally open contacts)		0
Connection type		With bolt connection
Special features		Switches are tripped by a voltage pulse or by the application of uninterrupted voltage. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.

Technical Data - Mechanical - Terminals

Terminal capacity (solid/flexible conductor)		0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) at shunt release 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) at shunt release

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) / Shunt release (for power circuit breaker) (EC001023)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Full load current trip (ecl@ss13-27-37-04-18 [AKF016018])		
Rated control supply voltage AC 50 Hz	V	48 - 48
Rated control supply voltage AC 60 Hz	V	48 - 48
Rated control supply voltage DC	V	48 - 48
Voltage type for actuating		AC/DC
Initial value of the undelayed short-circuit release - setting range	A	0
End value adjustment range undelayed short-circuit release	A	0
Power consumption	W	
Type of electric connection		Screw connection
Number of contacts as normally open contact		0
Number of contacts as normally closed contact		0
Number of contacts as change-over contact		0

Suitable for power circuit breaker		No
Suitable for off-load switch		Yes
Suitable for motor safety switch		No
Suitable for overload relay		No