

Shunt release, 60VAC/DC

Part no. **NZM2/3-XA60AC/DC**
259758

General specifications		
Product name		Eaton Moeller series NZM release
Part no.		NZM2/3-XA60AC/DC
EAN		4015082597580
Product Length/Depth		42 millimetre
Product height		90 millimetre
Product width		30 millimetre
Product weight		0.064 kilogram
Compliances		IEC UL/CSA RoHS conform
Certifications		CSA-C22.2 No. 5-09 UL (Category Control Number DIHS) UL (File No. E140305) UL489 CE marking UL listed CSA certified CSA (File No. 22086) CSA (Class No. 1437-01) IEC60947
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), N3(-4) NZM2(-4), N2(-4)
Technical Data - Electrical		
Voltage type		AC
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)		60 V DC 60 V AC
Rated control supply voltage		60 V AC/DC
Rated control supply voltage (Us) at AC, 50 Hz - min		60 V
Rated control supply voltage (Us) at AC, 50 Hz - max		60 V
Rated control supply voltage (Us) at AC, 60 Hz - min		60 V
Rated control supply voltage (Us) at AC, 60 Hz - max		60 V
Rated control supply voltage (Us) at DC - min		60 V
Rated control supply voltage (Us) at DC - max		60 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 mm ² - 2.5 mm ² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm ² - 2.5 mm ² (1x) at shunt release with ferrule 18 - 14 AWG (1x) at shunt release 18 - 14 AWG (2x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) at shunt release 0.75 mm ² - 2.5 mm ² (1x) for undervoltage releases, off-delayed with ferrule 0.75 mm ² - 2.5 mm ² (2x) at shunt release with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed
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	60 - 60
Rated control supply voltage AC 60 Hz		V	60 - 60
Rated control supply voltage DC		V	60 - 60
Voltage type for actuating			AC
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