Shunt release, 24VAC/DC

Part no. NZM1-XAL24AC/DC

259736

EL Number 4358725

(Norway)



General specifications	
Product name	Eaton Moeller series NZM release
Part no.	NZM1-XAL24AC/DC
EAN	4015082597368
Product Length/Depth	37 millimetre
Product height	66 millimetre
Product width	32 millimetre
Product weight	0.044 kilogram
Compliances	UL/CSA IEC RoHS conform
Certifications	IEC60947 UL (File No. E140305) CSA certified UL (Category Control Number DIHS) CSA-C22.2 No. 5-09 UL listed CSA (File No. 22086) UL489 CSA (Class No. 1437-01) CE marking
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release
Delivery program	
Туре	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 NZMXHIV early-make auxiliary contact or NZMXU undervoltage release.
Frame	NZM1
Suitable for	Off-load switch
Used with	NZM1(-4), N(S)1(-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)	24 V DC 24 V AC
Rated control supply voltage	24 V AC/DC
Rated control supply voltage (Us) at AC, 50 Hz - min	24 V
Rated control supply voltage (Us) at AC, 50 Hz - max	24 V
Rated control supply voltage (Us) at AC, 60 Hz - min	24 V
Rated control supply voltage (Us) at AC, 60 Hz - max	24 V
Rated control supply voltage (Us) at DC - min	24 V
Rated control supply voltage (Us) at DC - max	24 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	00
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 3 m connection cable instead of screw termination
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 simultaneousl with NZMXHIV early-make auxiliary contact or NZMXU undervoltage release.
Technical Data - Mechanical - Terminals	
Terminal capacity (solid/flexible conductor)	0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) at shunt release 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (1x) 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		٧	24 - 24	
Rated control supply voltage AC 60 Hz		٧	24 - 24	
Rated control supply voltage DC		٧	24 - 24	
Voltage type for actuating			AC/DC	
Initial value of the undelayed short-circuit release - setting range		Α	0	
End value adjustment range undelayed short-circuit release		Α	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