DATASHEET - NZM1-XA24AC/DC



Shunt release, 24VAC/DC

Part no. NZM1-XA24AC/DC 259708 Catalog No.

EL-Nummer (Norway)

4358723





Delivery program Product range Accessories Shunt release Accessories Shunt releases Accessories Standard/Approval UL/CSA, IEC Construction size NZM1 Description Switches are tripped by a voltage pulse or by the application of uninterrupted If the shunt trip is live, contact with the circuit breaker's primary contacts is

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 U_{S}

prevented when switched on. Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.

with terminal block on the left-hand switch side

without auxiliary contact

24 V AC/DC

NZM1(-4), N(S)1(-4)

Technical data

Shunt release

For use with

Connection type

Auxiliary contacts

Rated control voltage

Siluili release			
Rated control voltage	U_s	V	
AC	U_s	V AC	24 - 24
DC	U_s	V DC	24 - 24
Frequency		Hz	50/60/200/400, DC
Operating range			
AC	$x U_s$		0.7 - 1.1
DC	$x U_s$		0.7 - 1.1
Power consumption			
Pick-up AC/DC		VA/W	2.5
Power consumption Pick-up = Sealing		VA/W	2.5
Maximum opening delay (response time until opening of the main contacts)		ms	20
Maximum duty factor		ms	00
Minimum command time		ms	10 15
Terminal capacities		mm^2	
Solid or flexible conductor, with ferrule		mm ²	1 x (0,75 - 2,5) 2 x (0,75 - 2,5)
		AWG	1 x (18 14) 2 x (18 14)

Design verification as per IFC/FN 61439

bosign vermoution as per 120/214 01703		
IEC/EN 61439 design verification		
10.2 Strength of materials and parts		
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects $ \frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left($	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 Insulation properties	
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.

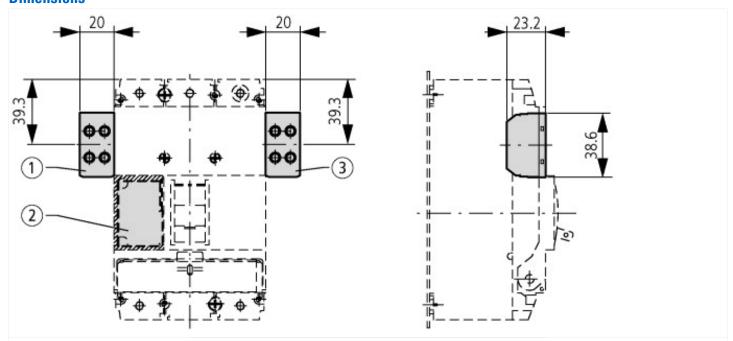
Technical data ETIM 7.0

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@ss10.0.1-27-37-04-18 [AKF016013])				
	V	24 - 24		
	V	24 - 24		
	V	12 - 24		
		AC/DC		
	Α	0		
	Α	0		
		Screw connection		
		0		
		0		
		0		
		Yes		
		Yes		
		No		
		No		
		h technology / Circuit bre V V V		

Approvals

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Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL Category Control No.	DIHS
CSA File No.	022086
CSA Class No.	1437-01
North America Certification	UL listed, CSA certified

Dimensions



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NZM1-XA(HIV)
NZM1-XU(HIV)(20)
NZM1-XHIV
②
NZM1-XA(HIV)(L)
NZM1-XU(V)(HIV)(L)(20)
NZM1-XHIV(L)
③
NZM1-XHIVR

Additional product information (links)

IL01203002Z (AWA1230-1914) Shunt release, Undervoltage release, Early-make auxiliary contact

IL01203002Z (AWA1230-1914) Shunt release, Undervoltage release, Early-make auxiliary contact ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01203002Z2010_11.pdf