### Shunt release, 24VAC/DC

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

**EL-Nummer** (Norway)

4358723



**Delivery program** 

Accessories Accessories Stunt release Stunt releases Stundard/Approval Construction size Description Consection type Auxiliary contacts Rated control voltage  Accessories Shunt releases 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. With terminal block on the left-hand switch side without auxiliary contact Without auxiliary contact Shunt releases	Don'tory program			
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Auxiliary contacts without auxiliary contact  Rated control voltage U <sub>s</sub> V 24 V AC/DC	Description			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
Rated control voltage Us V 24 V AC/DC	Connection type			with terminal block on the left-hand switch side
	Auxiliary contacts			without auxiliary contact
For use with NZM1(-4), N(S)1(-4)	Rated control voltage	$U_{s}$	V	24 V AC/DC
	For use with			NZM1(-4), N(S)1(-4)

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## **Technical data**

#### **Shunt 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	∞
Minimum command time		ms	10 15
Terminal capacities		mm <sup>2</sup>	
Solid or flexible conductor, with ferrule		mm <sup>2</sup>	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 IEC/EN 61439**

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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	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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

# **Technical data ETIM 8.0**

Low-voltage industrial components (EG000017) / Shunt release (for power circ	uit breaker) (EC00	1023)			
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])					
Rated control supply voltage Us at AC 50HZ		V	24 - 24		
Rated control supply voltage Us at AC 60HZ		V	24 - 24		
Rated control supply voltage Us at DC		V	12 - 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		
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		