# **DATASHEET - NZM1-XAL24AC/DC**



# Shunt release, 24VAC/DC

Part no. NZM1-XAL24AC/DC Catalog No. 259736

EL-Nummer (Norway)

4358725

Similar to illustration



#### **Delivery program**

- control / programm			
Product range			Accessories
Accessories			Shunt release
Accessories			Shunt releases
Standard/Approval			UL/CSA, IEC
Construction size			NZM1
Description			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.
Connection type			with 3 m connection cable instead of screw termination
Auxiliary contacts			without auxiliary contact
Rated control voltage	Us	V	24 V AC/DC
For use with			NZM1(-4), N(S)1(-4)

#### **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 <sub>s</sub>		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		$\text{mm}^2$	
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**

Meets the product standard's requirements.
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Does not apply, since the entire switchgear needs to be evaluated.
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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.

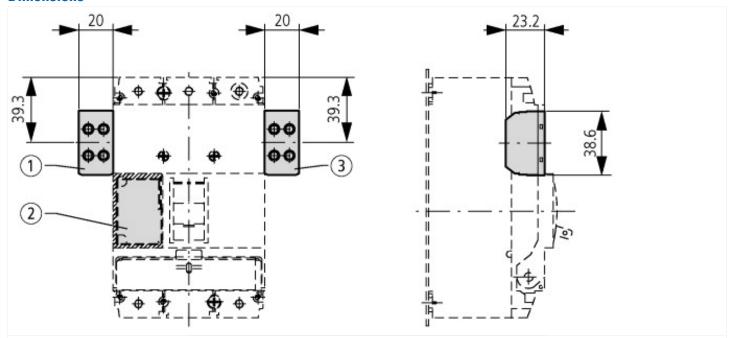
# **Technical data ETIM 7.0**

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	24 - 24	
		AC/DC	
	Α	0	
	Α	0	
		Screw connection	
		0	
		0	
		0	
		Yes	
		Yes	
		No	
		No	
		h technology / Circuit bre V V V	

# **Approvals**

• •	
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**



①
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 https://es-assets.eaton.com/DOCUMENTATION/AWA\_INSTRUCTIONS/IL01203002Z2010\_11.pdf