## **DATASHEET - NZM1-XU24DC**



## Undervoltage release, 24 V DC

Part no. NZM1-XU24DC Catalog No. 259452

EL-Nummer (Norway)

4315547

Similar to illustration



Delivery program

Product range Accessories

Accessories Undervoltage release

Accessories Undervoltage releases

Standard/Approval UL/CSA, IEC

Construction size

NZM1

Description

Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% U<sub>S</sub>.

For use with emergency-stop devices in connection with an emergency-stop button.

When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on.

Undervoltage releases cannot be installed simultaneously with NZM...-XHIV...
early-make auxiliary contact or NZM...-XA... shunt release.

Connection type with terminal block on the left-hand switch side

Auxiliary contacts without auxiliary contact

Rated control voltage U<sub>s</sub> V 24 V DC

For use with NZM1(-4), N(S)1(-4)

# Technical data

$U_s$	V	
$U_s$	V DC	24 - 24
$U_{s}$	V	24 V DC
	$x  U_s$	0.35 - 0.7
x Uc		0.85 - 1.1
	VA	1.5
	VA	1.5
	x U <sub>s</sub>	
	W	0.8
	W	0.8
	ms	19
	ms	10 - 15
	U <sub>s</sub> U <sub>s</sub>	U <sub>s</sub> V DC U <sub>s</sub> V  x U <sub>s</sub> x U <sub>s</sub> vA  vA  x U <sub>s</sub> w  w  w  ms

#### **Terminal capacities**

Torriniar oupdottion	
Solid or flexible conductor, with ferrule	1 x (0,75 - 2,5) 2 x (0,75 - 2,5)
	1 x (18 14) 2 x (18 14)

## Design verification as per IEC/EN 61439

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.

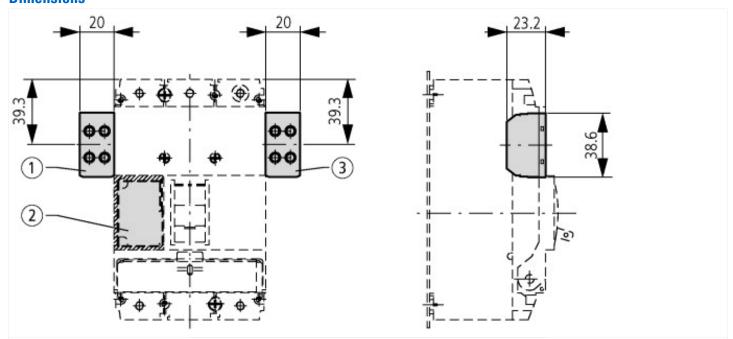
# Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Under voltage coil (EC001022)				
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Undervoltage trip (ecl@ss10.0.1-27-37-04-17 [AKF015013])				
Rated control supply voltage Us at AC 50HZ		V	0 - 0	
Rated control supply voltage Us at AC 60HZ		V	0 - 0	
Rated control supply voltage Us at DC		V	24 - 24	
Voltage type for actuating			AC	
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	
Delayed			No	
Suitable for power circuit breaker			No	
Suitable for off-load switch			Yes	
Suitable for motor safety switch			No	
Suitable for overload relay			No	

# 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

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