## DATASHEET - NZM2/3-XUHIV2024DC



Undervoltage release, 24VDC, +2early N/O

Part no. Catalog No.

NZM2/3-XUHIV2024DC 259659



Similar to illustration

Delivery program			
Product range			Accessories
Accessories			Undervoltage release
Accessories			Undervoltage release with early-make auxiliary contact
Standard/Approval			UL/CSA, IEC
Construction size			NZM2/3
Description			Undervoltage release with 2 early-make auxiliary contacts, e.g., for early-make connection of undervoltage release in main switch applications, as well as for interlock and load shedding circuits. 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. Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Cannot be used in conjunction with NZMXR remote operator. Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXA shunt release.
Connection type			Contacts 3.23 and 3.24 with separate 3 m connection cables
Auxiliary contacts			with two separate early-make auxiliary contacts
Rated control voltage	Us	V	24 V DC
For use with			NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)

#### **Technical data**

# Undervoltage release

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Rated control voltage	Us	V	
DC	Us	V DC	24 - 24
Rated control voltage	Us	V	24 V DC
Operating range			
Drop-out voltage		x U <sub>s</sub>	0.35 - 0.7
Pick-up voltage	x Uc		0.85 - 1.1
Power consumption			
AC			
Pick-up AC		VA	1.5
Sealing AC		VA	1.5
DC		x U <sub>s</sub>	
Pick-up DC		W	0.8
Sealing DC		W	0.8
Maximum opening delay (response time until opening of the main contacts)		ms	19
Minimum command time		ms	10 - 15
Terminal capacities			
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

Design vernication as per 120/214 01400	
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 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) / Under voltage coil (EC001022)

ic engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV- control supply voltage Us at AC 50HZ 0-0 control supply voltage Us at AC 60HZ V 0-0 control supply voltage Us at DC V 24-24 e type for actuating if electric connection er of contacts as normally open contact er of contacts as normally closed contact er of contacts as change-over contact	< 1 kV) / Undervoltage trip (ecl@ss10.0.1-27-37-04-17 [AKF015013])
control supply voltage Us at AC 60HZ     V     0 - 0       control supply voltage Us at DC     V     24 - 24       e type for actuating     DC     Screw of       of electric connection     2     0       er of contacts as normally closed contact     0     0	
control supply voltage Us at DC     V     24 - 24       e type for actuating     DC       of electric connection     Screw of       er of contacts as normally open contact     2       er of contacts as normally closed contact     0	
e type for actuating DC Screw of screw of screw of contacts as normally closed contact 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
if electric connection     Screw of       er of contacts as normally open contact     2       er of contacts as normally closed contact     0	
er of contacts as normally open contact 2 er of contacts as normally closed contact 0	
er of contacts as normally closed contact 0	onnection
· · · · · · · · · · · · · · · · · · ·	
er of contacts as change-over contact 0	
ed No	
le for power circuit breaker Yes	
le for off-load switch Yes	
le for motor safety switch No	
le 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

## Additional product information (links)

#### IL01208005Z (AWA1230-1915) Shunt release, Undervoltage release, Early-make auxiliary contact

IL01208005Z (AWA1230-1915) Shunt release, Undervoltage release, Early-make auxiliary contact

se, https://es-assets.eaton.com/DOCUMENTATION/AWA\_INSTRUCTIONS/IL01208005Z2018\_02.pdf