### **DATASHEET - NZM4-XU600AC**



Undervoltage release, 600VAC

Part no. NZM4-XU600AC Catalog No. 266196



Similar to illustration

**Delivery program** 

Product range Accessories Accesories Acc	Delivery program			
Accessories Standard/Approval Construction size Description When the control voltage releases Connection type Auxiliary contacts Rated control voltage  Vu dervoltage releases UL/CSA, IEC  NZM4  Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% Us. 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 NZMXHIV early-make auxiliary contact or NZMXA shunt release.  With bolt connection without auxiliary contact without auxiliary contact	Product range			Accessories
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Rated control voltage Us V 600 V 50/60 Hz	Connection type			With bolt connection
	Auxiliary contacts			without auxiliary contact
For use with NZM4(-4), N(S)4(-4)	Rated control voltage	$U_s$	V	600 V 50/60 Hz
	For use with			NZM4(-4), N(S)4(-4)

# Technical data Undervoltage release

Olluci voltage Telease			
Rated control voltage	$U_s$	V	
AC	$U_s$	V AC	600 - 600
Rated control voltage	$U_{s}$	V	600 V 50/60 Hz
Operating range			
Drop-out voltage		$x U_s$	0.35 - 0.7
Pick-up voltage	x Uc		0.85 - 1.1
Power consumption			
AC			
Pick-up AC		VA	3.6
Sealing AC		VA	3.6
DC		$x U_s$	
Pick-up DC		W	2.5
Sealing DC		W	2.5
Maximum opening delay (response time until opening of the main contacts)		ms	23
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

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.
0.9 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.
0.10 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 mus observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear mus 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) 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 600 - 600 Rated control supply voltage Us at AC 60HZ ٧ 600 - 600 0 - 0 Rated control supply voltage Us at DC AC Voltage type for actuating Type of electric connection Screw connection Number of contacts as normally open contact 0 Number of contacts as normally closed contact 0 0 Number of contacts as change-over contact Delayed No Suitable for power circuit breaker Yes Suitable for off-load switch Yes Suitable for motor safety switch No Suitable for overload relay No

#### **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