## DATASHEET - NZM2/3-XUHIV110-130AC-PI



Undervoltage release for NZM2/3, 1 early-make auxiliary contact, 2NO, 110-130AC, Push-in terminals

Powering Business Worldwide\*

Part no. NZM2/3-XUHIV110-130AC-PI Catalog No. 189777

Similar to illustration

#### **Delivery program**

Product range			Accessories
Accessories			Undervoltage release
Accessories			Undervoltage release with early-make auxiliary contact
Standard/Approval			UL/CSA, IEC
Description			For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications.  Instantaneous shut-off of the NZM circuit breaker when the control voltage drops 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.  Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms (NZM2/3) and 90 ms (NZM4).  Undervoltage release modules cannot be installed simultaneously with early-make contact NZMXHIV, shunt release NZMXA or relais modules NZMX2A
Connection type			with push in terminal
Auxiliary contacts			with early-make auxiliary contact
Rated control voltage	$U_s$	V	110 - 130 V 50/60 Hz
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	$U_s$	V	
Rated control voltage	$U_s$	V	110 - 130 V 50/60 Hz

# 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 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)				
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	110 - 130		
Rated control supply voltage Us at AC 60HZ	V	110 - 130		
Rated control supply voltage Us at DC	V	0 - 0		
Voltage type for actuating		AC		
Type of electric connection		Spring clamp connection		
Number of contacts as normally open contact		1		
Number of contacts as normally closed contact		0		
Number of contacts as change-over contact		0		
Delayed		No		
Suitable for power circuit breaker		Yes		
Suitable for off-load switch		Yes		
Suitable for motor safety switch		Yes		
Suitable for overload relay		No		