DATASHEET - NZM2/3-XUHIV20420-480VAC



Under Undervoltage release, 420-480VAC, +2N/O early

Part no. Catalog No.

NZM2/3-XUHIV20420-480VAC 105947



Delivery program			
Product range		Accessories	
Accessories		Undervoltage release	
Accessories		Undervoltage release with early-make auxiliary c	ontact
Standard/Approval		UL/CSA, IEC	
Construction size		NZM2/3	
Description		Undervoltage release with 2 early-make auxiliary connection of undervoltage release in main switc interlock and load shedding circuits. For use with emergency-stop devices in connecti button. If the shunt trip is live, contact with the circuit bre prevented when switched on. Early make of auxiliary contacts on switching on a approx. 20 ms Cannot be used in conjunction with NZMXR rn Undervoltage releases cannot be installed simulta early-make auxiliary contact or NZMXA shun	h applications, as well as for on with an emergency-stop aker's primary contacts is and off (manual operation): emote operator. aneously with NZMXHIV
Connection type		Contacts 3.23 and 3.24 with separate 3 m connect	ion cables
Auxiliary contacts		with two separate early-make auxiliary contacts	
Rated control voltage	Us	420 - 480 V 50/60 Hz	
For use with		NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	

Technical data

Undervoltage release

Undervoltage release			
Rated control voltage	Us	V	
AC	Us	V AC	420 - 480
Rated control voltage	Us	V	420 - 480 V 50/60 Hz
Operating range			
Drop-out voltage		$\rm x \ U_{s}$	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		$\rm x \ U_{s}$	
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 ²	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.
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	420 - 480
Rated control supply voltage Us at AC 60HZ	V	420 - 480
Rated control supply voltage Us at DC	V	0 - 0
Voltage type for actuating		AC
Type of electric connection		Screw connection
Number of contacts as normally open contact		2
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		No
Suitable for overload relay		No

Approvals

North America Certification

UL listed, CSA certified