DATASHEET - NZM2/3-XU2A24AC



Undervoltage release for NZM2/3, configurable relays, 2NO, 24AC, Pushin terminals



Part no. NZM2/3-XU2A24AC Catalog No. 189724

Similar to illustration

Delivery	program
Product range	

zomor, program	
Product range	Accessories
Accessories	Undervoltage release
Accessories	Undervoltage release with two relays
Standard/Approval	UL/CSA, IEC
Construction size	NZM2/3
Description	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. For signalizing commands or different states of the circuit-breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Only for use in combination with circuit-breakers with electronic trips. Under-voltage trip relay modules cannot be installed simultaneously with makebefore-break auxiliary contact NZMXHIV, under-voltage trip NZMXU or shunt trip NZMXA. Relay contacts for control wiring. Relays can be used for controlling remote operator with Us=208-204 V AC. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip.
Connection type	with push in terminal
Auxiliary contacts	without auxiliary contact
For use with	PXR20(25) NZM2(-4)X PXR20(25) NZM3(-4)X
Number of relays	2
Contact sequence	3.33 3.43 + \

Technical data Undervoltage release

	ms	10 - 15
	mm ²	1 x (0.2 – 1.5)
	mm^2	1 x (0.25 – 1.5)
	AWG	1 x (24 - 16)
	mm^2	1 x (0,25 - 1,5)
	mm^2	1 x (0,25 - 0,75)
U_s	V	
U_s	V AC	24 - 240
U_s	V DC	24 - 24
U_{imp}	V AC	4000
U_{i}	V	250
		11/2
	kA_{rms}	
l _e	Α	1
l _e	Α	1
I _e	Α	1
I _e	Α	1
		0.1 mA / 0.1 VDC
	mm	8
	mm ²	1 x (0.2 – 1.5)
	mm^2	1 x (0.25 – 1.5)
	AWG	1 x (24 - 16)
	mm ²	1 x (0,25 - 1,5)
	mm ²	1 x (0,25 - 0,75)
	U _s U _{imp} U _i	mm² mm² AWG mm² MWG mm² MWG mm² MWG MWG

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Design verification as per IEC/EN 61439

Maximum opening delay (response time until opening of the main contacts)

EC/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	24 - 24
Rated control supply voltage Us at AC 60HZ	,	V	24 - 24
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			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			Yes
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

Additional product information (links)

IL012141ZU shunt trip, under-voltage trip, leading auxiliary contact

IL012141ZU shunt trip, under-voltage trip, leading auxiliary contact

https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL012141ZU2020_03.pdf