

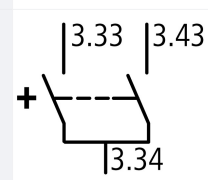


**Undervoltage release for NZM2/3, configurable relays, 2NO, 208-240AC, Push-in terminals**

**Part no. NZM2/3-XU2A208-240AC**  
**Catalog No. 189727**

Similar to illustration

**Delivery 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% $U_s$ . For use with emergency-stop devices in connection with an emergency-stop button. For signaling 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 make-before-break auxiliary contact NZM...-XHIV, under-voltage trip NZM...-XU... or shunt trip NZM...-XA. Relay contacts for control wiring. Relays can be used for controlling remote operator with $U_s=208-204$ 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		

**Technical data**

**Undervoltage release**

Rated control voltage	$U_s$	V	
AC	$U_s$	V AC	208 - 240
Operating range			
Drop-out voltage		$x U_s$	0.35 - 0.7
Pick-up voltage	$x U_c$		0.85 - 1.1
Power consumption			
AC			
Pick-up AC		VA	1.5
Sealing AC		VA	1.5
DC		$x U_s$	
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
<b>Terminal capacity</b>			
Solid		mm <sup>2</sup>	1 x (0.2 – 1.5)
Stranded		mm <sup>2</sup>	1 x (0.25 – 1.5)
		AWG	1 x (24 - 16)
with insulated end sleeve in accordance with DIN46224 / 4		mm <sup>2</sup>	1 x (0,25 - 1,5)
with uninsulated end sleeve in accordance with DIN46228 / 1		mm <sup>2</sup>	1 x (0,25 - 0,75)

### Relay contacts

Rated control voltage	U <sub>s</sub>	V	
AC	U <sub>s</sub>	V AC	24 - 240
DC	U <sub>s</sub>	V DC	24 - 24
<b>Contacts</b>			
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	4000
Rated insulation voltage	U <sub>i</sub>	V	250
Overvoltage category/pollution degree			II/2
<b>Switching capacity</b>			
Rated operational current		kA <sub>rms</sub>	
<b>AC-1</b>			
24 V	I <sub>e</sub>	A	1
110 V	I <sub>e</sub>	A	1
230 V	I <sub>e</sub>	A	1
<b>DC-1</b>			
24 V	I <sub>e</sub>	A	1
Min. switching capacity (reference value)			0.1 mA / 0.1 VDC
<b>Connection</b>			
Stripping length		mm	8
<b>Terminal capacity</b>			
Solid		mm <sup>2</sup>	1 x (0.2 – 1.5)
Stranded		mm <sup>2</sup>	1 x (0.25 – 1.5)
		AWG	1 x (24 - 16)
with insulated end sleeve in accordance with DIN46224 / 4		mm <sup>2</sup>	1 x (0,25 - 1,5)
with uninsulated end sleeve in accordance with DIN46228 / 1		mm <sup>2</sup>	1 x (0,25 - 0,75)

## 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	208 - 240
Rated control supply voltage Us at AC 60HZ	V	208 - 240
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