

**Undervoltage release for NZM2/3, configurable relays, 2NO, 24DC, Push-in terminals**



**Part no. NZM2/3-XU2A24DC**

**189725**

**EL Number  
(Norway)**

**4363015**

Product name	Eaton Moeller series NZM release
Part no.	NZM2/3-XU2A24DC
EAN	4015081877201
Product Length/Depth	115 millimetre
Product height	65 millimetre
Product width	75 millimetre
Product weight	0.08 kilogram
Compliances	UL/CSA IEC RoHS conform
Certifications	UL (Category Control Number DIHS) CE marking CSA (Class No. 1437-01) CSA-C22.2 No. 5-09 IEC60947 UL (File No. E140305) CSA certified CSA (File No. 22086) UL489 UL listed
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release
Type	Accessory Undervoltage release Undervoltage release with two relays
Special features	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 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, circuit breaker display, 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 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 Push-in clamp relay contacts for control wiring Relays can be used for controlling remote operator with Us=208-204 V AC Cannot be used with the PXR10 NZM-AX electronic trip
Frame	NZM2/3
Suitable for	Motor safety switch Off-load switch
Used with	PXR20(25) NZM3(-4)-...X... PXR20(25) NZM2(-4)-...X...
Voltage type	DC
Rated insulation voltage (Ui)	250 V
Rated impulse withstand voltage (Uimp)	4 kV AC
Rated control voltage (relay contacts)	24 V AC 240 V AC 24 V DC
Rated control supply voltage (Us) at AC, 50 Hz - min	0 V
Rated control supply voltage (Us) at AC, 50 Hz - max	0 V
Rated control supply voltage (Us) at AC, 60 Hz - min	0 V
Rated control supply voltage (Us) at AC, 60 Hz - max	0 V
Rated control supply voltage (Us) at DC - min	24 V
Rated control supply voltage (Us) at DC - max	24 V
Voltage tolerance - min	0.85

Voltage tolerance - max		1.1
Drop-out voltage of undervoltage release AC/DC - min		0.35 x Us
Drop-out voltage of undervoltage release AC/DC - max		0.7 x Us
Rated operational current		1 A (110 V AC-1, relay contacts) 1 A (230 V AC-1, relay contacts) 1 A (24 V DC-1, relay contacts) 1 A (24 V AC-1, relay contacts)
Power consumption		0.8 W (sealing DC) 1.5 VA (sealing AC)
Pick-up power consumption at AC (undervoltage release)		1.5 V-A
Pick-up power consumption at DC (undervoltage release)		0.8 W
Switching capacity (reference value) - min		0.1 mA / 0.1 VDC
Reaction time		19 ms
Minimum command time - min		10 ms
Minimum command time - max		15 ms
Electric connection type		Spring clamp connection
Overvoltage category		II
Pollution degree		2
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		0
Number of contacts (normally open contacts)		2
Number of relays		2
Connection type		With push in terminal
Strip length		8 mm (relay contact connection)
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Terminal capacity (stranded cable)		0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) for undervoltage release 0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) at shunt release 24 - 16 AWG (1x) at shunt release 24 - 16 AWG (1x) for undervoltage release 0.25 mm <sup>2</sup> - 0.75 mm <sup>2</sup> (1x) for undervoltage release 0.25 mm <sup>2</sup> - 0.75 mm <sup>2</sup> (1x) for undervoltage release with uninsulated end sleeve in accordance with DIN46228 / 1 0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) for undervoltage release with insulated end sleeve in accordance with DIN46224 / 4
Terminal capacity (solid cable)		0.2 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) for undervoltage release 0.2 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) at shunt release
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 8.0

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	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	24 - 24
Voltage type for actuating		DC
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		No
Suitable for off-load switch		Yes
Suitable for motor safety switch		Yes
Suitable for overload relay		No