

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



**Part no.** NZM2/3-XA2A24AC/DC  
**189740**  
**EL Number** 4363010  
**(Norway)**

Product name	Eaton Moeller series NZM release
Part no.	NZM2/3-XA2A24AC/DC
EAN	4015081877355
Product Length/Depth	115 millimetre
Product height	65 millimetre
Product width	75 millimetre
Product weight	0.08 kilogram
Compliances	IEC UL/CSA RoHS conform
Certifications	UL (File No. E140305) IEC60947 CSA (Class No. 1437-01) UL (Category Control Number DIHS) CE marking CSA certified CSA-C22.2 No. 5-09 UL489 UL listed CSA (File No. 22086)
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release
Type	Accessory Shunt release Shunt release with two relays
Special features	The breakers are actuated by a voltage pulse or by applying a no-break current. 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. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Only for use in combination with circuit-breakers with electronic trips. Shunt 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 coil is controlled by trip unit. 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.
Frame	NZM2/3
Suitable for	Motor safety switch Off-load switch
Used with	PXR20(25) NZM2(-4)-...X... PXR20(25) NZM3(-4)-...X...
Voltage type	AC/DC
Voltage rating	0.7 - 1.1 x Us
Voltage rating at AC (x Us) - min	0.7
Voltage rating at AC (x Us) - max	1.1
Rated insulation voltage (Ui)	250 V
Rated impulse withstand voltage (Uimp)	4 kV AC
Rated control voltage (relay contacts)	24 V AC 24 V DC 240 V AC
Rated control supply voltage (Us) at AC, 50 Hz - min	24 V
Rated control supply voltage (Us) at AC, 50 Hz - max	24 V
Rated control supply voltage (Us) at AC, 60 Hz - min	24 V
Rated control supply voltage (Us) at AC, 60 Hz - max	24 V
Rated control supply voltage (Us) at DC - min	24 V

Rated control supply voltage (Us) at DC - max		24 V
Rated operational current		1 A (110 V AC-1, relay contacts) 1 A (230 V AC-1, relay contacts) 1 A (24 V AC-1, relay contacts)
Pick-up power consumption (shunt release)		2.5 VA/W
Switching capacity (reference value) - min		0.1 mA / 0.1 VDC
Reaction time		20 ms
Time on duty - max		∞
Minimum command time - min		10 ms
Minimum command time - max		15 ms
Electric connection type		Spring clamp connection
Overvoltage category		III
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)
Special features		The breakers are actuated by a voltage pulse or by applying a no-break current. 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. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Only for use in combination with circuit-breakers with electronic trips. Shunt 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 coil is controlled by trip unit. 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.
Terminal capacity (stranded cable)		0.25 mm <sup>2</sup> - 0.75 mm <sup>2</sup> (1x) at shunt release (uninsulated ferrule according to DIN46228 / 1) 24 - 16 AWG (1x) for undervoltage release 0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) at shunt release (insulated ferrule according to DIN46224 / 4) 0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) at shunt release 24 - 16 AWG (1x) at shunt release 0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) for undervoltage release
Terminal capacity (solid cable)		0.2 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) at shunt release 0.2 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) for undervoltage 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) / Shunt release (for power circuit breaker) (EC001023)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Full load current trip (ecl@ss10.0.1-27-37-04-18 [AKF016013])		
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	24 - 24
Voltage type for actuating		AC/DC
Initial value of the undelayed short-circuit release - setting range	A	0
End value adjustment range undelayed short-circuit release	A	0
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
Suitable for power circuit breaker		No
Suitable for off-load switch		Yes
Suitable for motor safety switch		Yes
Suitable for overload relay		No