



Undervoltage release for NZM2/3, configurable relays, 2NO, 1 early-make auxiliary contact, 1NO, 208-240AC, Push-in terminals

Part no. NZM2/3-XUHIV2A208-240AC

189735

EL Number

4363011

(Norway)

General specifications	
Product name	Eaton Moeller series NZM release
Part no.	NZM2/3-XUHIV2A208-240AC
EAN	4015081877300
Product Length/Depth	115 millimetre
Product height	65 millimetre
Product width	75 millimetre
Product weight	0.08 kilogram
Compliances	RoHS conform UL/CSA IEC
Certifications	CSA (Class No. 1437-01) CSA-C22.2 No. 5-09 IEC60947 CE marking CSA certified UL listed UL (File No. E140305) UL489 UL (Category Control Number DIHS) CSA (File No. 22086)
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release
Delivery program	
Type	Accessory Undervoltage release Undervoltage release with early-make auxiliary contact and two relays
Special features	For interlock circuits, load-shedding circuits, make-before-break interruption of shunt trip for primary breaker use Instantaneous shut-off NZM breaker at control voltage below 35-70% Us For emergency-stop devices with an emergency-stop button For breaker's signaling commands/different states 2 relays/unit Trip unit config of activation criteria Config by communication/breaker display/front USB port/Eaton Power Xpert Protection Manager Switched off under-voltage trip: accidental contact with breaker's primary contacts is prevented when switched on Auxiliary contact make-before-break activation when manual switching on and off: ~20 ms(NZM2/3)/90 ms(NZM4) For use with electronic trip breakers except NZM...-XR... Under-voltage trip relay modules incompatible with NZM...-XHIV, NZM...-XU..., NZM...-XA. Trip unit controlled relay coil Push-in clamp relay contacts for control wiring. Relays use for controlling remote operator at Us=208-204 V AC Incompatible with PXR10 NZM-AX
Frame	NZM2/3
Fitted with:	Early-make auxiliary contact and 2 relays
Suitable for	Motor safety switch Off-load switch
Used with	PXR20(25) NZM3(-4)-.X... PXR20(25) NZM2(-4)-.X...
Technical Data - Electrical	
Voltage type	AC
Rated insulation voltage (Ui)	250 V
Rated impulse withstand voltage (Uimp)	4 kV AC
Rated control voltage (relay contacts)	24 V DC 240 V AC 208 V AC 24 V AC
Rated control supply voltage (Us) at AC, 50 Hz - min	208 V
Rated control supply voltage (Us) at AC, 50 Hz - max	240 V
Rated control supply voltage (Us) at AC, 60 Hz - min	208 V
Rated control supply voltage (Us) at AC, 60 Hz - max	240 V
Rated control supply voltage (Us) at DC - min	0 V

Rated control supply voltage (Us) at DC - max		0 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 (24 V AC-1, relay contacts) 1 A (24 V DC-1, relay contacts) 1 A (230 V AC-1, relay contacts) 1 A (110 V AC-1, relay contacts)
Power consumption		1.5 VA (sealing AC) 0.8 W (sealing DC)
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		Screw connection
Overvoltage category		II
Pollution degree		2
Technical Data - Mechanical		
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		0
Number of contacts (normally open contacts)		3
Number of relays		2
Connection type		With push in terminal
Strip length		8 mm (relay contact connection)
Special features		For interlock circuits, load-shedding circuits, make-before-break interruption of shunt trip for primary breaker use Instantaneous shut-off NZM breaker at control voltage below 35-70% Us For emergency-stop devices with an emergency-stop button For breaker's signaling commands/different states 2 relays/unit Trip unit config of activation criteria Config by communication/breaker display/front USB port/Eaton Power Xpert Protection Manager Switched off under-voltage trip: accidental contact with breaker's primary contacts is prevented when switched on Auxiliary contact make-before-break activation when manual switching on and off: ~20 ms(NZM2/3)/90 ms(NZM4) For use with electronic trip breakers except NZM...-XR... Under-voltage trip relay modules incompatible with NZM...-XHIV, NZM...-XU..., NZM...-XA. Trip unit controlled relay coil Push-in clamp relay contacts for control wiring. Relays use for controlling remote operator at Us=208-204 V AC Incompatible with PXR10 NZM-AX
Technical Data - Mechanical - Terminals		
Terminal capacity (stranded cable)		0.25 mm ² - 0.75 mm ² (1x) for undervoltage release with uninsulated end sleeve in accordance with DIN46228 / 1 24 - 16 AWG (1x) at shunt release 0.25 mm ² - 1.5 mm ² (1x) for undervoltage release with insulated end sleeve in accordance with DIN46224 / 4 0.25 mm ² - 1.5 mm ² (1x) at shunt release 24 - 16 AWG (1x) for undervoltage release 0.25 mm ² - 0.75 mm ² (1x) for undervoltage release 0.25 mm ² - 1.5 mm ² (1x) for undervoltage release
Terminal capacity (solid cable)		0.2 mm ² - 1.5 mm ² (1x) at shunt release 0.2 mm ² - 1.5 mm ² (1x) for undervoltage release
Design verification as per IEC/EN 61439		
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 9.0

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@ss13-27-37-04-17 [AKF015018])		
Rated control supply voltage AC 50 Hz	V	208 - 240
Rated control supply voltage AC 60 Hz	V	208 - 240
Rated control supply voltage DC	V	0 - 0
Voltage type for actuating		AC
Type of electric connection		Screw connection
Number of contacts as normally open contact		3
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