DATASHEET - NZM2/3-XUHIV2A24AC

Undervoltage release for NZM2/3, configurable relays, 2NO, 1 early-make auxiliary contact, 1NO, 24AC, Push-in terminals

Powering Business Worldwide

Part no.	**NZM2/3-XUHIV2A24AC**
	189732
EL Number (Norway)	**4363013**

Product name	Eaton Moeller series NZM release
Part no.	NZM2/3-XUHIV2A24AC
EAN	4015081877270
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	UL489 CSA certified UL (Category Control Number DIHS) CSA (Class No. 1437-01) UL (File No. E140305) CSA-C22.2 No. 5-09 UL listed IEC60947 CSA (File No. 22086) CE marking
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release
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 signalizing 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 incompatbile 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…
Voltage type	AC
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	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 (110 V AC-1, relay contacts) 1 A (230 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
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 signalizing 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 incompatbile 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
Terminal capacity (stranded cable)	0.25 mm^2 - 0.75 mm^2 (1x) for undervoltage 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 - 0.75 mm^2 (1x) for undervoltage release with uninsulated end sleeve in accordance with DIN46228 / 1 0.25 mm^2 - 1.5 mm^2 (1x) at shunt release 24 - 16 AWG (1x) for undervoltage release 0.25 mm^2 - 1.5 mm^2 (1x) for undervoltage release 24 - 16 AWG (1x) at shunt release
Terminal capacity (solid cable)	0.2 mm^2 - 1.5 mm^2 (1x) for undervoltage release 0.2 mm^2 - 1.5 mm^2 (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	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		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

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