DATASHEET - NZM1-XU110-130DC

Undervoltage release, 110-130VDC

Part no. **NZM1-XU110-130DC**
259458

Powering Business Worldwide

General specifications

Product name	Eaton Moeller series NZM release
Part no.	NZM1-XU110-130DC
EAN	4015082594589
Product Length/Depth	37 millimetre
Product height	66 millimetre
Product width	32 millimetre
Product weight	0.044 kilogram
Compliances	UL/CSA IEC RoHS conform
Certifications	CSA (Class No. 1437-01) IEC60947 CSA (File No. 22086) UL (Category Control Number DIHS) CSA-C22.2 No. 5-09 UL (File No. E140305) UL listed CSA certified CE marking UL489
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release

Delivery program

Type	Accessory Undervoltage release
Special features	Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% US. For use with emergency-stop devices in connection with an emergency-stop button. When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.
Frame	NZM1
Suitable for	Off-load switch
Used with	NZM1(-4), N(S)1(-4)

Technical Data - Electrical

Voltage type	AC
Rated control voltage (relay contacts)	110 V DC 130 V DC
Rated control supply voltage	110 - 130 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	110 V
Rated control supply voltage (Us) at DC - max	130 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
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
Reaction time	19 ms

Minimum command time - min			10 ms
Minimum command time - max			15 ms
Electric connection type			Screw connection

Technical Data - Mechanical

Number of contacts (change-over contacts)			0
Number of contacts (normally closed contacts)			0
Number of contacts (normally open contacts)			0
Connection type			With terminal block on the left-hand switch side
Special features			Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% US. For use with emergency-stop devices in connection with an emergency-stop button. When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.

Technical Data - Mechanical - Terminals

Terminal capacity (solid/flexible conductor)			0.75 mm^2 - 2.5 mm^2 (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm^2 - 2.5 mm^2 (1x) at shunt release with ferrule 18 - 14 AWG (2x) at shunt release 18 - 14 AWG (1x) at shunt release 18 - 14 AWG (1x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm^2 - 2.5 mm^2 (1x) for undervoltage releases, off-delayed with ferrule 0.75 mm^2 - 2.5 mm^2 (2x) at shunt release with ferrule

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	0 - 0
Rated control supply voltage AC 60 Hz		V	0 - 0
Rated control supply voltage DC		V	110 - 130
Voltage type for actuating			AC
Type of electric connection			Screw connection
Number of contacts as normally open contact			0
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			No
Suitable for overload relay			No