Undervoltage release, 60 V DC, +2early N/O



Part no. NZM2/3-XUHIV60DC 259606

General specifications	
Product name	Eaton Moeller series NZM release
Part no.	NZM2/3-XUHIV60DC
EAN	4015082596064
Product Length/Depth	42 millimetre
Product height	90 millimetre
Product width	30 millimetre
Product weight	0.074 kilogram
Compliances	UL/CSA IEC RoHS conform
Certifications	UL (File No. E140305) CSA (File No. 22086) UL listed CSA-C22.2 No. 5-09 UL (Category Control Number DIHS) CE marking UL489 CSA certified CSA (Class No. 1437-01) IEC60947
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release
Delivery program	
Туре	Accessory Undervoltage release Undervoltage release with early-make auxiliary contact
Special features	Undervoltage release with 2 early-make auxiliary contacts, e.g., for early-make connection of undervoltage release in main switch applications, as well as for interlock and load shedding circuits. 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. Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXA shunt release. Cannot be used in conjunction with NZMXR remote operator.
Frame	NZM2/3
Fitted with:	Two early-make auxiliary contacts
Suitable for	Off-load switch
Used with	NZM3(-4), N3(-4) NZM2(-4), N2(-4)
Technical Data - Electrical	
Voltage type	AC
Rated control voltage (relay contacts)	60 V DC
Rated control supply voltage	60 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	60 V
Rated control supply voltage (Us) at DC - max	60 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)
. St.C. Consumption	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
Fechnical Data - Mechanical	Corow commenced
Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	0
Number of contacts (normally open contacts)	2 With half connection
Connection type	With bolt connection
Special features	Undervoltage release with 2 early-make auxiliary contacts, e.g., for early-make connection of undervoltage release in main switch applications, as well as for interlock and load shedding circuits. 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. Early make of auxiliary contacts on switching on an off (manual operation): approx. 20 ms Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXA shunt release. Cannot be used in conjunction with NZMXR remote operator.
Technical Data - Mechanical - Terminals	
Terminal capacity (solid/flexible conductor) Design verification as per IEC/EN 61439	0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 0.75 mm² - 2.5 mm² (2x) at shunt release with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed 0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) at shunt release 18 - 14 AWG (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 9.0

160milear data Ermi 5.0				
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	60 - 60		
Voltage type for actuating		AC		

Type of electric connection	Screw 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	No
Suitable for overload relay	No