## Undervoltage release, 220-250VDC



Part no. NZM1-XU220-250DC 259460

General specifications	
Product name	Eaton Moeller series NZM release
Part no.	NZM1-XU220-250DC
EAN	4015082594602
Product Length/Depth	37 millimetre
Product height	66 millimetre
Product width	32 millimetre
Product weight	0.044 kilogram
Compliances	IEC UL/CSA RoHS conform
Certifications	UL listed CSA (Class No. 1437-01) CSA (File No. 22086) CE marking CSA-C22.2 No. 5-09 UL (File No. E140305) UL (Category Control Number DIHS) UL489 IEC60947 CSA certified
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release
Delivery program	
Туре	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 NZMXHIV early-make auxiliary contact or NZMXA 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)	250 V DC 220 V DC
Rated control supply voltage	220 - 250 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	220 V
Rated control supply voltage (Us) at DC - max	250 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

Minimum command time - max   Server connection type   Server connection   Server con	Minimum command time - min	10 ms
Electric Connection type  Technical Data - Mechanical  Number of contacts (change-over contacts)  Number of contacts (manualy clased contacts)  O		
Technical Data - Mechanical  Number of contacts (change-wer contacts)  Number of contacts (change-wer contacts)  Number of contacts (change-wer contacts)  Number of contacts (change) were contacts)  Democroin type  Special features  With terminal bleck on the left-hand switch side  Non-drighted disconnection of NZM circuit breaker or it switch-described where the control violege size before 2-70% LIS. For use with emargement of the control of the contr		
Number of contacts (change-over contacts)  Number of contacts (normally closed contacts)  O	"	Silvi Combaton
Number of contacts (normally closed contacts)  Quantity of contacts (normally closed contacts)  Connection type  Special features  With terminal block on the left-hand switch side  Non-delayed disconnection of NZM circuit-breaker or N avoich-disconnector when the control violage sints below 35 – 70% U.S. Far use with emergency-special properties of the control violage sints below 35 – 70% U.S. Far use with emergency-special properties of the control violage sints below 35 – 70% U.S. Far use with emergency-special properties of the control violage sints below 35 – 70% U.S. Far use with emergency-special properties of the control violage sints below 35 – 70% U.S. Far use with emergency-special properties of the control violage sints below 35 – 70% U.S. Far use value of the control violage sints below 35 – 70% U.S. Far use value of the control violage sints below 35 – 70% U.S. Far use value of the control violage sints below 35 – 70% U.S. Far use value of the control violage sints below 35 – 70% U.S. Far use value of the control violage sints below 35 – 70% U.S. Far use value of the control violage sints below 35 – 70% U.S. Far use value of the control violage sints below 35 – 70% U.S. Far use value of U.S. Far use		0
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Connection type  Special features  Non-delayed disconnection of X2M circuits-breaker or N switch-disconnector when the control voltage sinks below 3—75% U.S. For use with emergency-stop devices in connection with an emergency-stop button. When the under-voltage sinks below 3—75% U.S. For use with emergency-stop devices in connection with an emergency-stop button. When the under-voltage rip is switched of a calculariation state in certain and a switched and the result breaker's primary consists a prevented when switched on. Undervallage releases, certain the installation should be a switched on. Undervallage releases, certain the installation of the switched on. Undervallage releases, certain the installation of the switched on. Undervallage releases, certain the switched on. Undervallage releases, certain the switched on. Undervallage releases, certain the switched of 2.75 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt release with ferrule on 7.5 mm² - 2.5 mm² (2.2) at shurt releases on 1.5 mm² - 2.5 mm² (2.2) at shurt releases of 4.5 mm² - 2.5 mm² (2.2) at shurt releases on 1.5 mm² - 2.5 mm² (2.2) at shurt releases on 1.5 mm² - 2.5 mm² (2.2) at shurt releases of 4.5 mm² - 2.5 mm² (2.2) at shurt releases on 1.5 mm² - 2.5 mm² (2.2) at shurt releases on 1.5 mm² - 2.5 mm² (2.2) at shurt releases on 1.5 mm² - 2.5 mm² (2.2) at shurt releases on 1.5 mm² - 2.5 mm² (2.2) at shurt releases on 1.5 mm² - 2.5 mm² (2.2) at shu		
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Terminal capacity (solid/flexible conductor)  0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases off-delayed with ferrule 1.75 mm² - 2.5 mm² (1x) for undervoltage releases off-delayed with ferrule 1.75 mm² - 2.55 mm² (1x) for undervoltage releases off-delayed with ferrule 1.75 mm² - 2.55 mm² (1x) for undervol	Special reacures	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 NZMXHIV early-make auxiliary contact or NZMXA
Design verification as per IEC/EN 61439  Design verification of thermal stability of enclosures  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Des not apply, since the entire switchgear needs to be evaluated.  In the panel builder's responsibility.  In the panel builder's responsibility.  In the panel builder's responsibility.  In the panel	Technical Data - Mechanical - Terminals	
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10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  Is the panel builder's responsibility.  The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  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	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  10.14 Testing of enclosures made of insulating material  Is the panel builder's responsibility. The temperature rise calculation. Eaton will provide heat dissipation data for the devices.  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	10.9.2 Power-frequency electric strength	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	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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	10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
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	10.10 Temperature rise	
observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	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	

## Technical data ETIM 9.0

Toominour data ETTIV 0.0				
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	220 - 250	
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