DATASHEET - NZM2/3-XU220-250DC



Undervoltage release, 220-250VDC

Part no. Catalog No.

NZM2/3-XU220-250DC 259517



Similar to illustration

Delivery program

	Accessories
	Undervoltage release
	Undervoltage releases
	UL/CSA, IEC
	NZM2/3
	Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% U _S . 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.
	With bolt connection
	without auxiliary contact
Us	V 220 - 250 V DC
	NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)
	Us

Technical data

Undervoltage release Rated control voltage ٧ U_s DC Us V DC 220 - 250 Us ٧ 220 - 250 V DC Rated control voltage Operating range x U_s 0.35 - 0.7 Drop-out voltage 0.85 - 1.1 Pick-up voltage x Uc Power consumption AC Pick-up AC VA 1.5 Sealing AC VA 1.5 DC $x\,U_{s}$ Pick-up DC W 0.8 Sealing DC W 0.8 Maximum opening delay (response time until opening of the main contacts) ms 19 Minimum command time 10 - 15 ms **Terminal capacities** 1 x (0,75 - 2,5) 2 x (0,75 - 2,5) Solid or flexible conductor, with ferrule mm² 1 x (18 ... 14) 2 x (18 ... 14) AWG

Design verification as per IEC/EN 61439

IEC/EN 61439 design verification		
10.2 Strength of materials and parts		
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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 7.0

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	/ 0 - 0				
Rated control supply voltage Us at AC 60HZ	V	/ 0 - 0				
Rated control supply voltage Us at DC	V	/ 220 - 250				
Voltage type for actuating		DC				
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		Yes				
Suitable for off-load switch		Yes				
Suitable for motor safety switch		No				
Suitable for overload relay		No				

Approvals				
Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking			
UL File No.	E140305			
UL Category Control No.	DIHS			
CSA File No.	022086			
CSA Class No.	1437-01			
North America Certification	UL listed, CSA certified			

Additional product information (links)

IL01208005Z (AWA1230-1915) Shunt release, Undervoltage release, Early-make auxiliary contact

https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL01208005Z2018_02.pdf IL01208005Z (AWA1230-1915) Shunt release, Undervoltage release, Early-make auxiliary contact