

Undervoltage release, 12 V DC

Part no.

NZM2/3-XU12DC Article no. 259507



Similar to illustration

Delivery program

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Product range			Accessories
Accessories			Undervoltage release
Accessories			Undervoltage releases
Standard/Approval			UL/CSA, IEC
Construction size			NZM2/3
Description			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 switching off devices in conjunction with Emergency switching off button. When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXA shunt release.
Connection type			With bolt connection
Auxiliary contacts			without auxiliary contact
Rated control voltage	Us	V	12 V DC
For use with			NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)

Technical data Undervoltage release

U_s	V	
Us	V AC	24 - 600
U_{s}	V DC	12 - 250
U_{s}	V	12 V DC
	$x U_s$	0.35 - 0.7
x Uc		0.85 - 1.1
	VA	1.5
	VA	1.5
	$x U_s$	
	W	0.8
	W	0.8
	ms	19
	ms	10 - 15
	mm ²	1 x (0,75 - 2,5) 2 x (0,75 - 2,5)
	AWG	1 x (18 14) 2 x (18 14)
	U _s U _s U _s	Us VAC Us VDC Us V XUs XUs XUc VA VA VA VA VA VA W W ms ms ms

Design verification as per IEC/EN 61439

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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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

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@ss8.1-27-37-04-17 [AKF015010])				
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	12 - 12	
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

IL01208005Z (AWA1230-1915) Shunt release, Undervoltage release, Early-make auxiliary contact ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01208005Z2011_08.pdf