DATASHEET - NZM1-XUHIV110-130AC



Undervoltage release, 110-130VAC, +2early N/O

NZM1-XUHIV110-130AC Part no. Catalog No. 259537



Similar to illustration

Delivery program

Donvoly program	
Product range	Accessories
Accessories	Undervoltage release
Accessories	Undervoltage release with early-make auxiliary contact
Standard/Approval	UL/CSA, IEC
Construction size	NZM1
Description	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.

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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 NZM...-XHIV...
early-make auxiliary contact or NZM...-XA... shunt release.

with terminal block on the left-hand switch side

with 2 early-make auxiliary contacts

110 - 130 V 50/60 Hz NZM1(-4), N(S)1(-4)

Technical data

Connection type

Auxiliary contacts

Rated control voltage For use with

Undervoltage release			
Rated control voltage	U_s	V	
AC	U_s	V AC	110 - 130
Rated control voltage	U_s	V	110 - 130 V 50/60 Hz
Operating range			
Drop-out voltage		x U _s	0.35 - 0.7
Pick-up voltage	x Uc		0.85 - 1.1
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		ms	10 - 15
Terminal capacities			
Solid or flexible conductor, with ferrule		mm ²	1 x (0,75 - 2,5) 2 x (0,75 - 2,5)
		AWG	1 x (18 14) 2 x (18 14)

Design verification as ner IFC/FN 61439

Design vermoation as per 120/214 01703	
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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

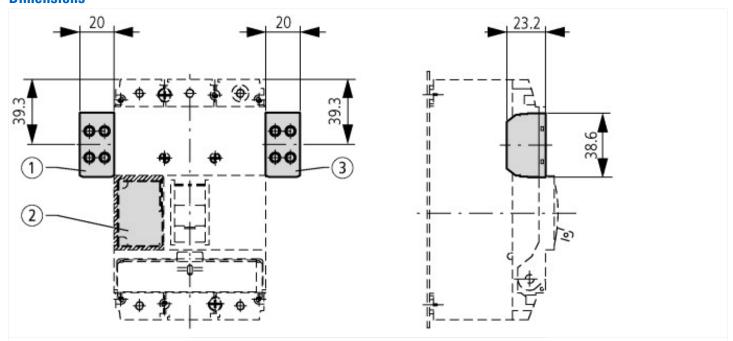
Technical data ETIM 7.0

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	110 - 130	
Rated control supply voltage Us at AC 60HZ		V	110 - 130	
Rated control supply voltage Us at DC		V	0 - 0	
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			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

Dimensions



①
NZM1-XA(HIV)
NZM1-XU(HIV)(20)
NZM1-XHIV
②
NZM1-XA(HIV)(L)
NZM1-XU(V)(HIV)(L)(20)
NZM1-XHIV(L)
③
NZM1-XHIVR

Additional product information (links)

IL01203002Z (AWA1230-1914) Shunt release, Undervoltage release, Early-make auxiliary contact

IL01203002Z (AWA1230-1914) Shunt release, Undervoltage release, Early-make auxiliary contact ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01203002Z2010_11.pdf