DATASHEET - NZM1-XUHIV20L24AC



Undervoltage release, 24VAC, +2early N/O



NZM1-XUHIV20L24AC Part no. Catalog No. 259612

Similar to illustration

Delivery 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. 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 Cannot be used in conjunction with NZMXR remote operator. Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXA shunt release.
Connection type			with 3 m connection cable instead of screw termination
Auxiliary contacts			with two separate early-make auxiliary contacts
Rated control voltage	U_s	V	24 V 50/60 Hz
For use with			NZM1(-4), N(S)1(-4)

Technical data Undervoltage release

Rated control voltage	U_s	V	
AC	U_s	V AC	24 - 24
Rated control voltage	U_s	V	24 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 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 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.

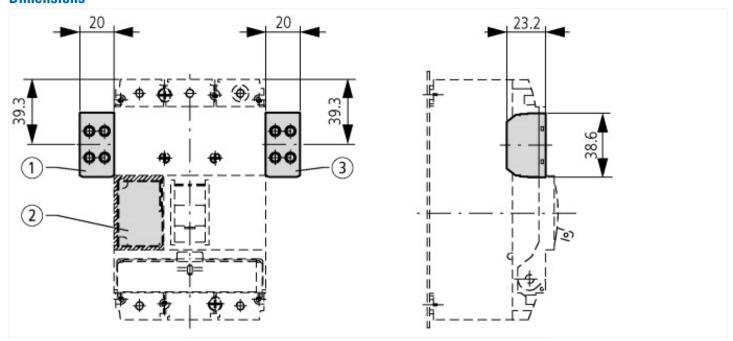
Technical data ETIM 7.0

Rated control supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at DC Voltage type for actuating V 0 - 0 Voltage type for actuating Type of electric connection Number of contacts as normally open contact Number of contacts as normally closed contact Number of contacts as normally closed contact Number of contacts as change-over contact Number of contacts as change-over contact Suitable for power circuit breaker Suitable for off-load switch Suitable for motor safety switch No	Low-voltage industrial components (EG000017) / Under voltage coil (EC001022)			
Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at DC Voltage type for actuating Type of electric connection Number of contacts as normally open contact Number of contacts as normally closed contact Number of contacts as change-over contact Delayed Suitable for power circuit breaker Suitable for motor safety switch Number of contors safety switch No 24 - 24 AC Screw connection Screw connection O O O O O O O O O O O O O	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 DC Voltage type for actuating Type of electric connection Number of contacts as normally open contact Number of contacts as normally closed contact Number of contacts as change-over contact Delayed Suitable for power circuit breaker Suitable for motor safety switch V 0 - 0 AC Screw connection Screw connection O O O O O O O O O O O O O	Rated control supply voltage Us at AC 50HZ		V	24 - 24
Voltage type for actuating Type of electric connection Number of contacts as normally open contact Number of contacts as normally closed contact Number of contacts as change-over contact Number of contacts as change-over contact Delayed No Suitable for power circuit breaker Suitable for motor safety switch AC AC AC AC Screw connection 2 0 No 0 Ves No No No No No No No No No N	Rated control supply voltage Us at AC 60HZ		V	24 - 24
Type of electric connection Number of contacts as normally open contact Number of contacts as normally closed contact Number of contacts as change-over contact Delayed Suitable for power circuit breaker Suitable for motor safety switch Suitable for motor safety switch Screw connection Screw connection Screw connection No No Ves No No No No No No No No No N	Rated control supply voltage Us at DC		V	0 - 0
Number of contacts as normally open contact Number of contacts as normally closed contact Number of contacts as change-over contact Delayed No Suitable for power circuit breaker Suitable for motor safety switch No No No No No No No No No N	Voltage type for actuating			AC
Number of contacts as normally closed contact Number of contacts as change-over contact Delayed No Suitable for power circuit breaker Suitable for motor safety switch No No No No No No No No No N	Type of electric connection			Screw connection
Number of contacts as change-over contact Delayed No Suitable for power circuit breaker Suitable for off-load switch Yes Suitable for motor safety switch No	Number of contacts as normally open contact			2
Delayed No Suitable for power circuit breaker Yes Suitable for motor safety switch No No No	Number of contacts as normally closed contact			0
Suitable for power circuit breaker Yes Suitable for off-load switch Yes Suitable for motor safety switch No	Number of contacts as change-over contact			0
Suitable for motor safety switch Yes No	Delayed			No
Suitable for motor safety switch No	Suitable for power circuit breaker			Yes
	Suitable for off-load switch			Yes
Suitable for everland relay	Suitable for motor safety switch			No
Suitable for overfload relay	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