DATASHEET - NZM1-XUHIV60AC



Undervoltage release, 60VAC, +2early N/O

Part no. Catalog No.

NZM1-XUHIV60AC 259535



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 Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXA shunt release.
Connection type			with terminal block on the left-hand switch side
Auxiliary contacts			with 2 early-make auxiliary contacts
Rated control voltage	Us	V	60 V 50/60 Hz
For use with			NZM1(-4), N(S)1(-4)

Technical data

Undervoltage release			
Rated control voltage	Us	V	
AC	Us	V AC	60 - 60
Rated control voltage	Us	V	60 V 50/60 Hz
Operating range			
Drop-out voltage		$\rm x~U_{\rm s}$	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		$x U_{\text{s}}$	
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 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)

Lated control supply voltage Us at AC 50HZ Image: Control supply voltage Us at AC 60HZ Image: Con	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])		
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lated control supply voltage Us at DC V 0-0 Coltage type for actuating V 0-0 C Control supply voltage Us at DC V C C C C C C C C C C C C C C C C C C	Rated control supply voltage US at AC 50HZ	v	60 - 60
Voltage type for actuatingACYpe of electric connectionScrew connectionNumber of contacts as normally open contactModelNumber of contacts as normally closed contactModelNumber of contacts as normally closed contactModelNumber of contacts as change-over contactModel <t< td=""><td>Rated control supply voltage Us at AC 60HZ</td><td>V</td><td>60 - 60</td></t<>	Rated control supply voltage Us at AC 60HZ	V	60 - 60
ype of electric connection ype of electric connection Screw connection lumber of contacts as normally open contact Ype 2 lumber of contacts as normally closed contact Ype 0 lumber of contacts as change-over contact Ype Ype lelayed Ype No lumber of contacts witch Ype Ype lumber of contacts as change-over contact Ype Ype lelayed Ype Ype lumber of contacts witch Ype Ype lumber of contacts as change-over contact Ype Ype lelayed Ype Ype Ype lumber of contacts witch Ype Ype Ype lumber of contacts as change-over contact Ype Ype Ype lumber of contacts as change-over contact Ype Ype Ype lumber of contacts as change-over contact Ype Ype Ype lumber of contacts as change-over contact Ype Ype Ype lumber of contacts as change-over contact Ype Ype Ype lumber of contacts Ype Ype Ype	Rated control supply voltage Us at DC	V	0 - 0
Aumber of contacts as normally open contact Mumber of contacts as normally closed contact Mumber of contacts as change-over contact Mumber of contacts as change-ov	Voltage type for actuating		AC
Aumber of contacts as normally closed contact Image: Contacts as normally closed contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contacts as change-over contact Aumber of contacts as change-over contact Image: Contact	Type of electric connection		Screw connection
Jumber of contacts as change-over contact Model Delayed Model Suitable for off-load switch Model Suitable for off-load switch Model	Number of contacts as normally open contact		2
Delayed Mo Buitable for off-load switch Mo	Number of contacts as normally closed contact		0
Suitable for off-load switch Yes	Number of contacts as change-over contact		0
Puitable for off-load switch Yes	Delayed		No
	Suitable for power circuit breaker		Yes
uitable for motor safety switch No	Suitable for off-load switch		Yes
	Suitable for motor safety switch		No
uitable for overload relay 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

