DATASHEET - NZM4-XAHIV-230AC-MNS

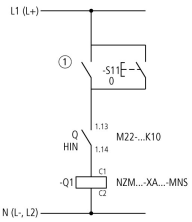
Similar to illustration

Shunt release, 230VAC, +1early N/O, for mesh network, size 4

Part no. NZM4-XAHIV-230AC-MNS
Catalog No. 274143

Powering Business Worldwide™

Delivery program

Product range			Accessories
Accessories			Shunt release
Accessories			Shunt releases
Standard/Approval			IEC
Construction size			NZM4
Description			Shunt release for mesh network circuit-breakers in conjunction with NZM-XZM capacitor unit Only for short-time operation with a maximum on-time = 1 s Operating range 10 - 110 % Us not UL/CSA approved Rated control voltage 230 V AC Cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release. Cannot be used in conjunction with NZM...-XR... remote operator. Intermittent operation guaranteed by series connection of an M22-(C)K10 make contact. Early-make time of integrated auxiliary contact upon switching on (manual operation): approx. 90 ms.
Auxiliary contacts			with early-make auxiliary contact
Rated control voltage	U_s	V	230 V AC
For use with			NZM4(-4), N(S)4(-4)
Contact sequence			

Technical data

Shunt release

Rated control voltage	U_s	V	
AC	U_s	V AC	
AC	U_s	V AC	230
Frequency range		Hz	50/60
Operating range			
AC	x U_s		0.1 - 1.1
Maximum current consumption at 110% Us (230 V 50 Hz)		A	0.5
Maximum opening delay (response time until opening of the main contacts)		ms	20
Maximum duty factor		ms	1000
Minimum command time		ms	10 … 15
Terminal capacities		mm^2	
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) / Shunt release (for power circuit breaker) (EC001023)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Full load current trip (ecl@ss10.0.1-27-37-04-18 [AKF016013])		
Rated control supply voltage Us at AC 50HZ	V	230 - 230
Rated control supply voltage Us at AC 60HZ	V	230 - 230
Rated control supply voltage Us at DC	V	0 - 0
Voltage type for actuating		AC
Initial value of the undelayed short-circuit release - setting range	A	0
End value adjustment range undelayed short-circuit release	A	0
Type of electric connection		Screw connection
Number of contacts as normally open contact		1
Number of contacts as normally closed contact		0
Number of contacts as change-over contact		0
Suitable for power circuit breaker		Yes
Suitable for off-load switch		Yes
Suitable for motor safety switch		No
Suitable for overload relay		No

Additional product information (links)

IL01210005Z (AWA1230-2027) Shunt release, Undervoltage release, Early-make auxiliary contact

IL01210005Z (AWA1230-2027) Shunt release, Undervoltage release, Early-make auxiliary contact	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01210005Z2010_10.pdf