DATASHEET - NZM4-XA-230AC-MNS



Shunt release, 230VAC, for mesh network, size 4

Part no. NZM4-XA-230AC-MNS Catalog No. 274138



Similar to illustration

Delivery program

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 NZMXHIV early-make auxiliary contact or NZMXU undervoltage release. Intermittent operation guaranteed by series connection of an M22-(C)K10 make contact.
Auxiliary contacts			without auxiliary contact
Rated control voltage	U_s	V	230 V AC
For use with			NZM4(-4), N(S)4(-4)
Contact sequence			1 (L+)

Technical data Shunt release

Snunt 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)		Α	1
Maximum opening delay (response time until opening of the main contacts)		ms	22
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

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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 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]) 230 - 230 Rated control supply voltage Us at AC 50HZ ٧ Rated control supply voltage Us at AC 60HZ 230 - 230 Rated control supply voltage Us at DC ٧ 0 - 0 Voltage type for actuating AC Initial value of the undelayed short-circuit release - setting range Α 0 End value adjustment range undelayed short-circuit release Α 0 Type of electric connection Screw connection Number of contacts as normally open contact 0 0 Number of contacts as normally closed contact 0 Number of contacts as change-over contact 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