



Shunt release, 230VAC, +1early N/O, for mesh network, size 3

Part no. **NZM3-XAHIV-230AC-MNS**  
 Catalog No. **274141**

Similar to illustration

**Delivery program**

Product range			Accessories
Accessories			Shunt release
Accessories			Shunt releases
Standard/Approval			IEC
Construction size			NZM3
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 and off (manual operation): approx. 20 ms.
Auxiliary contacts			with early-make auxiliary contact
Rated control voltage	U <sub>s</sub>	V	230 V AC
For use with			NZM3(-4), N(S)3(-4)
Contact sequence			

**Technical data**

**Shunt release**

Rated control voltage	U <sub>s</sub>	V	
AC	U <sub>s</sub>	V AC	
AC	U <sub>s</sub>	V AC	230
Frequency range		Hz	50/60
Operating range			
AC	x U <sub>s</sub>		0.1 - 1.1
Maximum current consumption at 110% U <sub>s</sub> (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 <sup>2</sup>	
Solid or flexible conductor, with ferrule		mm <sup>2</sup>	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