

Part no. Article no. NZM1-XAL110-130AC/DC 259742



Delivery program

Product range			Accessories
Accessories			Shunt release
Accessories			Shunt releases
Standard/Approval			UL/CSA, IEC
Construction size			NZM1
Description			Switches are tripped by a voltage pulse or by the application of uninterrupted voltage. When the shunt release is energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXU shunt release.
Connection type			with 3 m connection cable instead of screw termination
Auxiliary contacts			without auxiliary contact
Rated control voltage	Us	V	110 - 130 V AC/DC
For use with			NZM1(-4), N(S)1(-4)

Technical data

Snunt release			
Rated control voltage	Us	V	
AC	Us	V AC	12 - 440
DC	Us	V DC	12 - 440
Frequency range		Hz	50/60/200/400, DC
Operating range			
AC	x U _s		0.7 - 1.1
DC	x U _s		0.7 - 1.1
Power consumption			
Pick-up AC/DC		VA/W	2.5
Sealing AC/DC		VA/W	2.5
Maximum opening delay (response time until opening of the main contacts)		ms	20
Maximum duty factor		ms	∞
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.

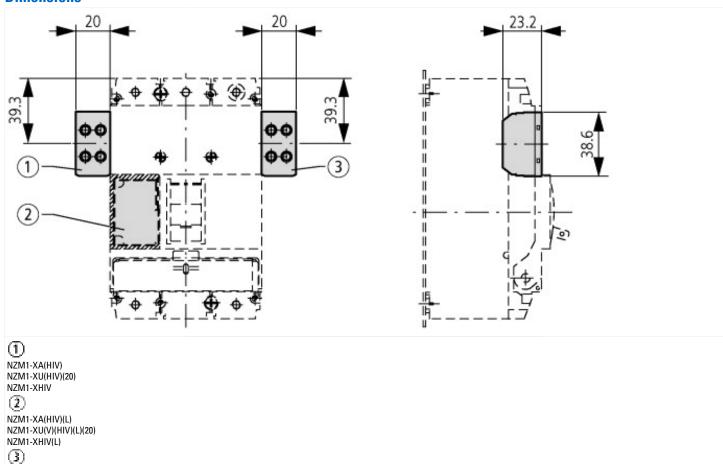
Technical data ETIM 6.0

Electric engineering, automation, process control engineering / Low-voltage switc-technology / Ercuit betweer (LV < 1 kV) / Full load current trip (ec@ss8.1-27-37-04-18 [AKF016010]) Rated control supply voltage Us at AC 50HZ v 10-130 Rated control supply voltage Us at AC 60HZ v 10-130 Rated control supply voltage Us at AC 60HZ v 10-130 Rated control supply voltage Us at DC v 10-130 Rotage type for actuating voltage us at DC v 10-130 Rotage type for actuating voltage undelayed short-circuit release - setting range voltage short-circuit release - setting range voltage voltage type of electric connection voltage short-circuit release voltage short-circuit release voltage voltage voltage voltage voltage voltage voltage voltage voltage short-circuit release voltage volta			
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Rated control supply voltage Us at AC 60HZ V 110 - 130 Rated control supply voltage Us at DC V 110 - 130 Voltage type for actuating C AC/DC Initial value of the undelayed short-circuit release - setting range A 0 Sind value adjustment range undelayed short-circuit release A 0 Yope of electric connection A 0 Number of contacts as normally open contact F Screw connection Number of contacts as normally closed contact F 0 Suitable for off-load switch F 0 Suitable for off-load switch F F Suitable for motor safety switch F No	Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Full load current trip (ecl@ss8.1-27-37-04-18 [AKF016010])		
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Number of contacts as normally closed contact Image: Contacts as normally closed contact Number of contacts as change-over contact Image: Contacts as change-over contact Suitable for power circuit breaker Image: Contacts as change-over contact Suitable for off-load switch Image: Contacts as change-over contact Suitable for motor safety switch Image: Contacts as change-over contact	Type of electric connection		Screw connection
Number of contacts as change-over contact Image: Contacts as change-over contact Image: Contacts as change-over contact Suitable for power circuit breaker Image: Contacts as change-over contact Image: Contacts as change-over contact Suitable for off-load switch Image: Contacts as change-over contact Image: Contacts as change-over contact Suitable for motor safety switch Image: Contacts as change-over contacts Image: Contacts as change-over contacts	Number of contacts as normally open contact		0
Suitable for off-load switch Suitable for motor safety suitable for motor saf	Number of contacts as normally closed contact		0
Suitable for motor safety switch No	Number of contacts as change-over contact		0
Suitable for motor safety switch No	Suitable for power circuit breaker		Yes
	Suitable for off-load switch		Yes
Suitable for overload relay No	Suitable for motor safety switch		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



NZM1-XHIVR

Additional product information (links)

IL01203002Z (AWA1230-1914) Shunt release, Undervoltage release, Early-make auxiliary contact

IL01203002Z (AWA1230-1914) Shunt release, ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01203002Z2010_11.pdf Undervoltage release, Early-make auxiliary contact