DATASHEET - NZM1-XAL110-130AC/DC



Shunt release, 110-130VAC/DC

Part no. Catalog No.

NZM1-XAL110-130AC/DC 259742



FAT•N° Powering Business Worldwide"

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. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Shunt releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXU undervoltage 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

S	hu	nt r	ele	as	e

Us	V	
Us	V AC	110 - 130
Us	V DC	110 - 130
	Hz	50/60/200/400, DC
x U _s		0.7 - 1.1
x U _s		0.7 - 1.1
	VA/W	2.5
	VA/W	2.5
	ms	20
	ms	∞
	ms	10 15
	mm ²	
	mm ²	1 x (0,75 - 2,5) 2 x (0,75 - 2,5)
	AWG	1 x (18 14) 2 x (18 14)
	Us Us x Us	UsV ACUsV DCHzHzx UsV ACx UsVA/WVA/WVA/WImsImsImm²

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)

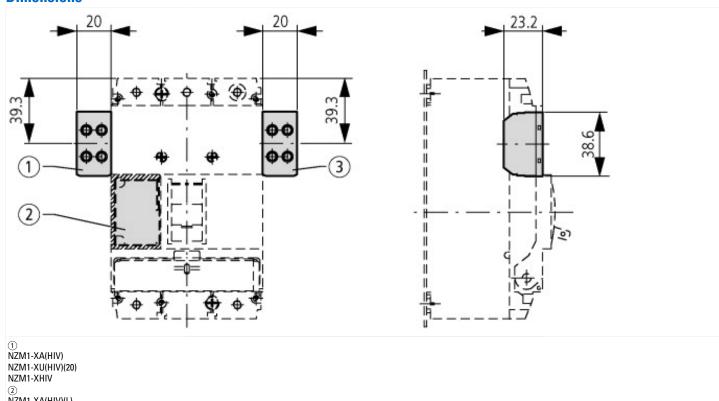
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Full load current trip (ecl@ss10.0.1-27-37-04-18 [AKF016013])

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Rated control supply voltage Us at AC 50HZ	V	110 - 130
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		AC/DC
Initial value of the undelayed short-circuit release - setting range	А	0
End value adjustment range undelayed short-circuit release	А	0
Type of electric connection		Screw connection
Number of contacts as normally open contact		0
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

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



2 NZM1-XA(HIV)(L) NZM1-XU(V)(HIV)(L)(20) NZM1-XHIV(L) ③ NZM1-XHIVR

Additional product information (links)

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

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

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01203002Z2010_11.pdf