DATASHEET - NZM4-X2A



Relay module for NZM4, configurable, 2NO, 24DC, 24-230AC, PI

Part no. NZM4-X2A Catalog No. 189723



Similar to illustration

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Product range	Accessories
Accessories	Relay module I
Accessories	Relay module
Standard/Approval	UL/CSA, IEC
Construction size	NZM4
Description	For signalizing commands or different states of the circuit-breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. Only for use in combination with circuit-breakers with electronic trips. Relay components cannot be installed simultaneously with make-before-break auxiliary breaker NZMXHIV, the under-voltage trip NZMXU or the shunt trip NZMXA Relay contacts for control wiring. Relays can be used for controlling remote operator with Us=208-204 V AC. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip.
Connection type	with push in terminal
For use with	PXR20(25) NZM4(-4)X
Number of relays	2
Contact sequence Contact sequence	+ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Technical data

Relay contacts

AC Us V AC 24 - 240 DC Us V DC 24 - 24 Contacts Rated impulse withstand voltage Uimp V AC 4000 Rated insulation voltage Uimp V AC 250 Overvoltage category/pollution degree III/3 III/3 Switching capacity KArms III/3 Rated operational current Image: Vision of the color of the	neray contacts			
DC Us V DC 24 - 24 Contacts V AC 4000 Rated impulse withstand voltage Uimp V AC 4000 Rated insulation voltage V 250 III/3 Overvoltage category/pollution degree III/3 III/3 Switching capacity KArms	Rated control voltage	U_s	V	
Contacts Contacts Uimp V AC 4000 Rated impulse withstand voltage Uimp V AC 4000 Rated insulation voltage Uimp V B 250 Overvoltage category/pollution degree III/3 III/3 Switching capacity KArms	AC	U_s	V AC	24 - 240
Rated insulation voltage Rated insulation voltage Overvoltage category/pollution degree Switching capacity Rated operational current AC-1 24V 1e 230V 1l0V 1e 230V 1e 24V 1e 300 1e 300 1e 400 1e 400	DC	U_s	V DC	24 - 24
Rated insulation voltage Ui V 250 Overvoltage category/pollution degree III/3 Switching capacity KA _{rms} III/3 Rated operational current KA _C —1 KA _C —1 KA _C —1 V E	Contacts			
Overvoltage category/pollution degree III/3 Switching capacity kArms III/3 Rated operational current KAC-1 IV IV <td< td=""><td>Rated impulse withstand voltage</td><td>U_{imp}</td><td>V AC</td><td>4000</td></td<>	Rated impulse withstand voltage	U_{imp}	V AC	4000
Switching capacity kA _{rms} Rated operational current KA _{rms} AC-1 Face the content of	Rated insulation voltage	Ui	V	250
Rated operational current Image: Control of the part of	Overvoltage category/pollution degree			III/3
AC-1 24 V	Switching capacity		$k \textbf{A}_{\text{rms}}$	
24 V Ie A 1 110 V Ie A 1 230 V Ie A 1 DC-1 V V V 24 V Ie A 1 Min. switching capacity (reference value) V V Connection V V Stripping length mm 8 Terminal capacity mm 8	Rated operational current			
110 V 1e A 1 230 V 1e A 1 DC-1 24 V Min. switching capacity (reference value) Connection Stripping length Terminal capacity	AC-1			
230 V Ie A 1 DC-1 24 V Ie A 1 Min. switching capacity (reference value) Connection Stripping length Terminal capacity	24 V	l _e	Α	1
DC-1 24 V Min. switching capacity (reference value) Connection Stripping length Terminal capacity Stripping length Mm 8 Terminal capacity	110 V	I _e	Α	1
24 V I _e A 1 Min. switching capacity (reference value) I 10 ma / 12 V Connection Stripping length mm 8 Terminal capacity	230 V	I _e	Α	1
Min. switching capacity (reference value) Connection Stripping length Terminal capacity Terminal capacity 10 ma / 12 V mm 8 8	DC-1			
Connection Stripping length mm 8 Terminal capacity	24 V	I _e	Α	1
Stripping length mm 8 Terminal capacity	Min. switching capacity (reference value)			10 ma / 12 V
Terminal capacity	Connection			
	Stripping length		mm	8
Solid mm^2 1 x (0.2 – 1.5)	Terminal capacity			
	Solid		mm^2	1 x (0.2 – 1.5)

Stranded	mm ²	1 x (0.25 – 1.5)
	AWG	1 x (24 - 16)
with insulated end sleeve in accordance with DIN46224 / 4	mm^2	1 x (0,25 - 1,5)
with uninsulated end sleeve in accordance with DIN46228 / 1	mm^2	1 x (0,25 - 0,75)

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 bobserved.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Accessories/spare parts for low-voltage switch technology (EC002498)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Component for low-voltage switch technology (accessories) (ecl@ss10.0.1-27-37-13-92 [AKN570013])

technology (accessories) (echess to.0.1-27-37-13-32 [AKN370013])	
Type of accessory/spare part	Other
Accessory	Yes
Spare part	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

Additional product information (links)

IL01210005Z shunt trip, under-voltage trip, make-before-break auxiliary breaker

IL01210005Z shunt trip, under-voltage trip, make-before-break auxiliary breaker

 $https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL01210005Z2010_10.pdf$