### Standard auxiliary contact, 2N/O+1N/C, screw connection

Powering Business Worldwide\*

Part no. NHI21-PKZ0
Article no. 072894
Catalog No. XTPAXSA21

### **Delivery programme**

71. 3	
Product range	Accessories
Accessories	Standard auxiliary contact
For use with	PKZ0(4) standard auxiliary contacts
Contacts	
N/O = Normally open	2 N/O
N/C = Normally closed	1 NC
Contact diagram	NHI21 NHI21
Contact sequence	133 131 139
Connection technique	Screw terminals
For use with	PKZM01 PKZM0 PKZM4 PKZM0-T PKM0

### Notes

Can be fitted to the right of motor-protective circuit-breakers, transformer-protective circuit-breakers, motor-protective circuit-breakers for starter combinations.

Can be combined with:

AGM, NHI-E-... trip-indicating auxiliary contact

## **Technical data**

### **Auxiliary contacts**

$U_{imp}$	V AC	6000
		III/3
U <sub>e</sub>	V	
U <sub>e</sub>	V AC	500
U <sub>e</sub>	V DC	250
	V AC	690
l <sub>e</sub>	Α	
I <sub>e</sub>	Α	3.5
I <sub>e</sub>	Α	2
Ie	Α	1
I <sub>e</sub>	Α	2
Ie	Α	1
	Ue Ue Ue Ie Ie Ie	Ue V Ue V AC Ue V DC  V AC Ie A Ie A Ie A

110 V	l <sub>e</sub>	Α	0.5
220 V	l <sub>e</sub>	Α	0.25
Lifespan		S	
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	> 0.1
Lifespan, electrical	Operations	x 10 <sup>6</sup>	0.05
Control circuit reliability	Failure rate	λ	$<\!10^{-8},<$ one failure at 100 million operations (at Ue = 24 V DC, $U_{min}$ = 17 V, $I_{min}$ = 5.4 mA)
interlocked opposing contacts			yes
Short-circuit rating without welding			
Fuseless		Туре	FAZ-B4/1-HI
Fuse		A gG/gL	10
Terminal capacities			
Solid or flexible conductor, with ferrule		$\text{mm}^2$	0,75 - 2,5
Solid or stranded		AWG	18 - 14

# Design verification as per IEC/EN 61439

Retod operational current for specified heat dissipation   Paid   W   0.04   Equipment heat dissipation, current-dependent   Paid   W   0.04   Static heat dissipation, current-dependent   Paid   W   0   Operating ambient temperature min. Operating ambient temperature max.   **C   *25   Operating ambient temperature max.   **C   *55    IEC/EN 61439 design verification of paid and parts   **C   *55    IEC/EN 61439 design verification of themal stability of enclosures   Meets the product standard's requirements.   I 0.2.2 Corrosion resistance of insulating materials to normal heat and fin vide to internal electric effects   I 0.2.3 Verification of resistance of insulating materials to abnormal heat and fin vide to internal electric effects   I 0.2.4 Resistance to ultra-violet (I/V) radiation   I 0.2.5 Lifting   Disease of protection of ASSEMBLIES   Disease of requirements   I 0.2.6 Recipions   Meets the product standard's requirements.   I 0.2.7 Inscriptions   Meets the product standard's requirements.   I 0.2.8 Recipions   Meets the product standard's requirements.   I 0.2.9 Registration of ASSEMBLIES   Disease on apply, since the entire switchgear needs to be evaluated.   I 0.2.1 Recipions   Meets the product standard's requirements.   I 0.2.2 Recipions   Meets the product standard's requirements.   I 0.2.3 Recipions   Meets the product standard's requirements.   I 0.2.4 Resistance to ultra-violet (I/V) radiation   Meets the product standard's requirements.   I 0.2.5 Recipions   Meets the product standard's requirements.   I 0.2.6 Recipions   Meets the product standard's requirements.   I 0.2.7 Recipions   Meets the product standard's requirements.   I 0.2.8 Recipions   Meets the product standard's requirements.   I 0.2.9 Recipions   Meets the product standard's requirements.   I 0.2.9 Recipions   Meets the product standard's requireme				
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10.8 Connections for external conductors  10.9 Insulation properties  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  11.14 Short-circuit ration  10.15 The panel builder's responsibility. The specifications for the switchgear must observed.  10.15 The panel builder's responsibility. The specifications for the switchgear must observed.  10.16 The panel builder's responsibility. The specifications for the switchgear must observed.  10.17 Mechanical function  10.18 Mechanical function	10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  Is the panel builder's responsibility.  Is the panel builder is responsibility.  The panel builder is responsibility. The specifications for the switchgear must observed.  10.12 Electromagnetic compatibility  The device meets the requirements, provided the information in the instruction	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  11.15 Is the panel builder's responsibility.  12.16 Is the panel builder is responsibility.  13.17 The panel builder is responsibility.  14.18 The panel builder is responsibility. The specifications for the switchgear must observed.  15.19 Electromagnetic compatibility.  16.19 Electromagnetic compatibility.  17.10 The device meets the requirements, provided the information in the instruction.	10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  15 the panel builder's responsibility.  The panel builder is responsibility are the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  15 the panel builder's responsibility. The specifications for the switchgear must observed.  16 the panel builder's responsibility. The specifications for the switchgear must observed.  17 the device meets the requirements, provided the information in the instruction	10.9 Insulation properties			
10.9.4 Testing of enclosures made of insulating material  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 lobserved.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must lobserved.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.9.2 Power-frequency electric strength			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 lobserved.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must lobserved.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
provide heat dissipation data for the devices.  10.11 Short-circuit rating  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must lobserved.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.10 Temperature rise			
observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.11 Short-circuit rating			
	10.12 Electromagnetic compatibility			
	10.13 Mechanical function			

### **Technical data ETIM 6.0**

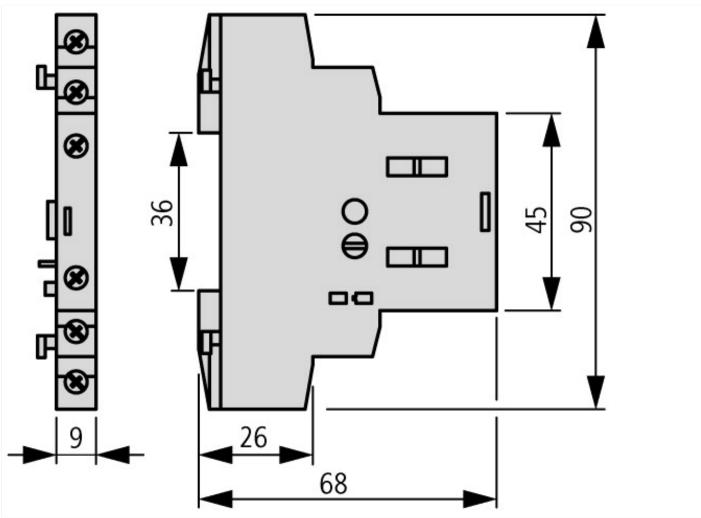
Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss8.1-27-37-13-02 [AKN342010])			
Number of contacts as change-over contact 0			
Number of contacts as normally open contact			2
Number of contacts as normally closed contact			1
Rated operation current le at AC-15, 230 V		А	3.5
Type of electric connection			Screw connection
Model			Top mounting
Mounting method			Side mounting

# Approvals

Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	165628
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Specially designed for North America	No

# **Dimensions**



### **Additional product information (links)**

Additional product informat	ion (inito)		
IL03402034Z (AWA1210-1945) Motor-protective circuit-breaker, Starter			
IL03402034Z (AWA1210-1945) Motor-protective circuit-breaker, Starter	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402034Z2016_06.pdf		
IL03407011Z (AWA1210-1925) Motor-protective circuit-breaker			
IL03407011Z (AWA1210-1925) Motor-protective circuit-breaker	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407011Z2014_02.pdf		
Motor starters and "Special Purpose Ratings" for the North American market	http://www.moeller.net/binary/ver_techpapers/ver953en.pdf		

http://www.moeller.net/binary/ver\_techpapers/ver960en.pdf