DATASHEET - NHI11-PKZ0



Standard auxiliary contact, 1 N/O, 1 NC, Can be retrofitted on the right side of motor-protective circuit-breakers, Screw terminals

Powering Business Worldwide*

Part no. NHI11-PKZ0
Catalog No. 072896
Alternate Catalog XTPAXSA11

No.

EL-Nummer 4355131

(Norway)

Delivery program

Product range	Accessories
Accessories	Standard auxiliary contact
	Can be retrofitted on the right side of motor-protective circuit-breakers
Contacts	
N/O = Normally open	1 N/O
N/C = Normally closed	1 NC
Contact diagram	L1L2L3 NHII1
Contact sequence	
Connection technique	Screw terminals
For use with	PKZ0(4) standard auxiliary contacts
For use with	PKZM01 PKZM0 PKZM4 PKZM0-T PKM0 PKE

Notes Can be fitted to the right of:
Motor protective circuit-breaker
Transformer-protective circuit-breaker
Motor protective circuit breaker for starter combinations
Cannot be used for motor starter combinations type MSC-R...
can be combined with AGM, NHI-E ...

Technical data Auxiliary contacts

Auxiliary contacts			
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated operational voltage	U_{e}	V	
	U_{e}	V AC	500
	U_{e}	V DC	250
Safe isolation to EN 61140			
Between auxiliary contacts and main contacts		V AC	690
Rated operational current	l _e	Α	
AC-15			
220 - 240 V	I _e	Α	3.5
380 - 415 V	I _e	Α	2
440 V 500 V	I _e	Α	1

DC-13 L/R - 100 ms			
24 V	I _e	Α	2
60 V	I _e	Α	1
110 V	I _e	Α	0.5
220 V	I _e	Α	0.25
Lifespan		S	
Lifespan, mechanical	Operations	x 10 ⁶	> 0.1
Lifespan, electrical	Operations	x 10 ⁶	0.05
Control circuit reliability	Failure rate	λ	$<\!10^{-8}$, $<$ one failure at 100 million operations (at U _e = 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		mm^2	0,75 - 2,5
Solid or stranded		AWG	18 - 14
Rating data for approved types			
Pilot Duty			
AC operated			A600
DC operated			Q300
General Use			
AC		٧	600
AC		Α	5
DC		V	250
DC		Α	1

Design verification as per IEC/EN 61439

Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	3.5
Heat dissipation per pole, current-dependent	P _{vid}	W	0.04
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
EC/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.

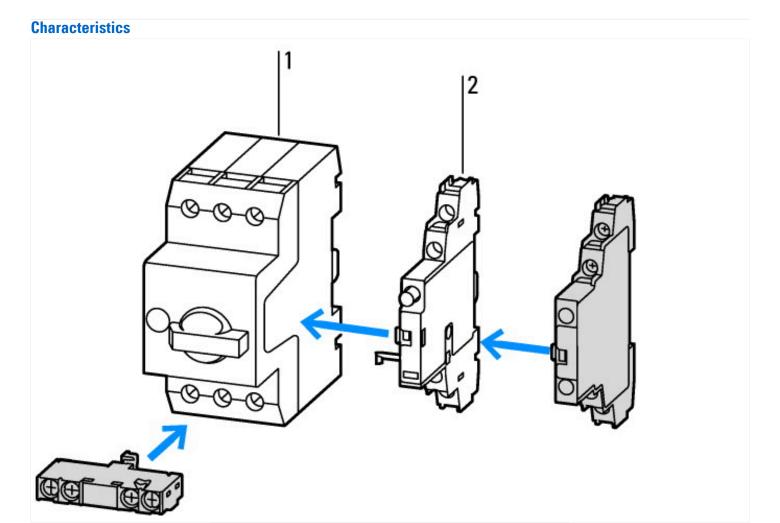
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data 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) / Auxiliary contact block (EC000041)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])			
Number of contacts as change-over contact			0
Number of contacts as normally open contact			1
Number of contacts as normally closed contact			1
Number of fault-signal switches			0
Rated operation current le at AC-15, 230 V		Α	3.5
Type of electric connection			Screw connection
Model			Top mounting
Mounting method			Side mounting
Lamp holder			None

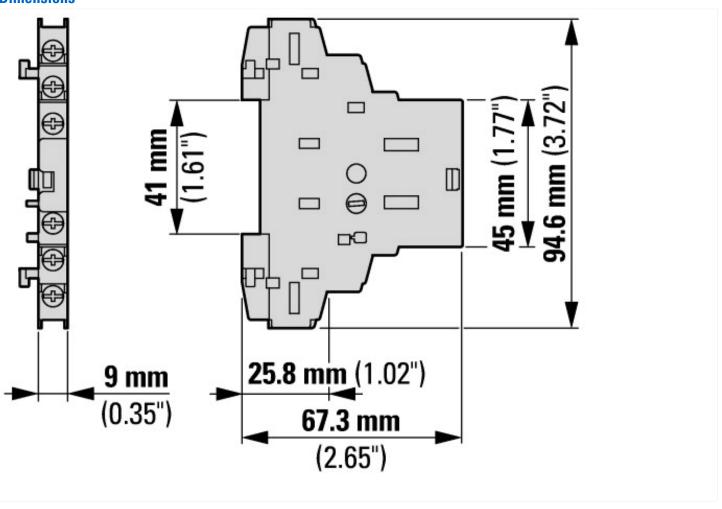
Approvals

UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
E36332
NLRV
165628
3211-05
UL listed, CSA certified
No



- 1: Motor-protective circuit-breakers
- 2: Trip-indicating auxiliary contact

Dimensions



Additional product information (links) Motor starters and "Special Purpose Ratings" for the North American market Busbar Component Adapters for modern Industrial control panels http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf http://www.moeller.net/binary/ver_techpapers/ver960en.pdf