

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

Part no. NHI21-PKZ0
Catalog No. 072894
Alternate Catalog No. XTPAXSA21
EL-Nummer (Norway) 4355132

Delivery program

Product range

Accessories

Contacts

N/O = Normally open

N/C = Normally closed

Contact diagram

Contact sequence

Connection technique

For use with

For use with

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...

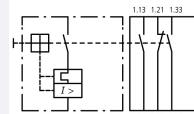
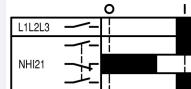
can be combined with AGM, NHI-E ...

Accessories

Standard auxiliary contact

2 N/O

1 NC



Screw terminals

PKZ0(4) standard auxiliary contacts

PKZM01

PKZM0

PKZM4

PKZM0-T

PKM0

PKE

Technical data

Auxiliary contacts

Rated impulse withstand voltage	U _{imp}	V AC	6000
Oversupply 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	I _e	A	
AC-15			
220 - 240 V	I _e	A	3.5
380 - 415 V	I _e	A	2
440 V 500 V	I _e	A	1
DC-13 L/R - 100 ms			
24 V	I _e	A	2
60 V	I _e	A	1

110 V	I_e	A	0.5
220 V	I_e	A	0.25
Lifespan		S	
Lifespan, mechanical	Operations	$\times 10^6$	> 0.1
Lifespan, electrical	Operations	$\times 10^6$	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	Type	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	V	600	
AC	A	5	
DC	V	250	
DC	A	1	

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	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
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) / Auxiliary contact block (EC000041)

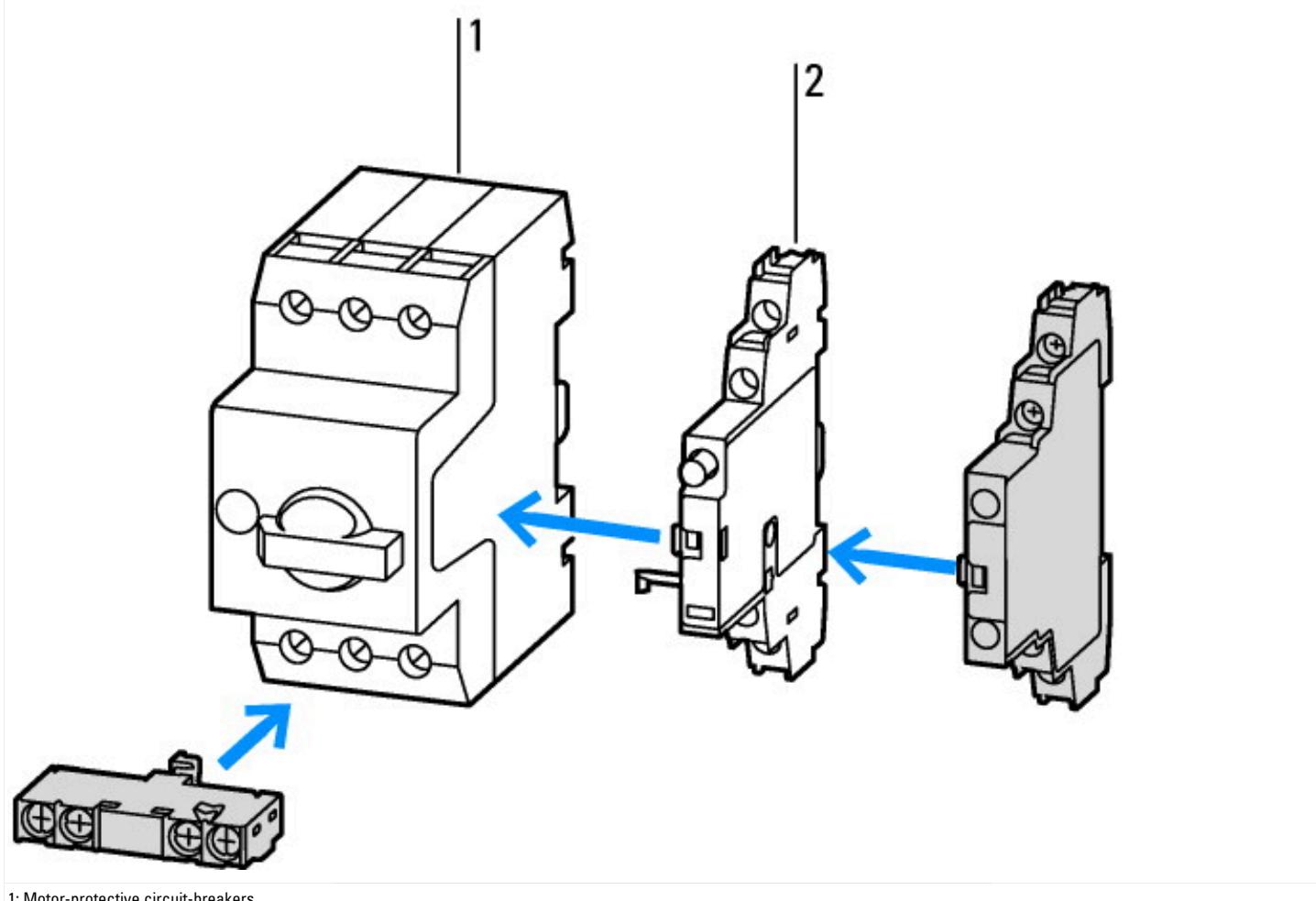
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

Number of contacts as change-over contact		0
Number of contacts as normally open contact		2
Number of contacts as normally closed contact		1
Number of fault-signal switches		0
Rated operation current I_e at AC-15, 230 V	A	3.5
Type of electric connection		Screw connection
Model		Top mounting
Mounting method		Side mounting
Lamp holder		None

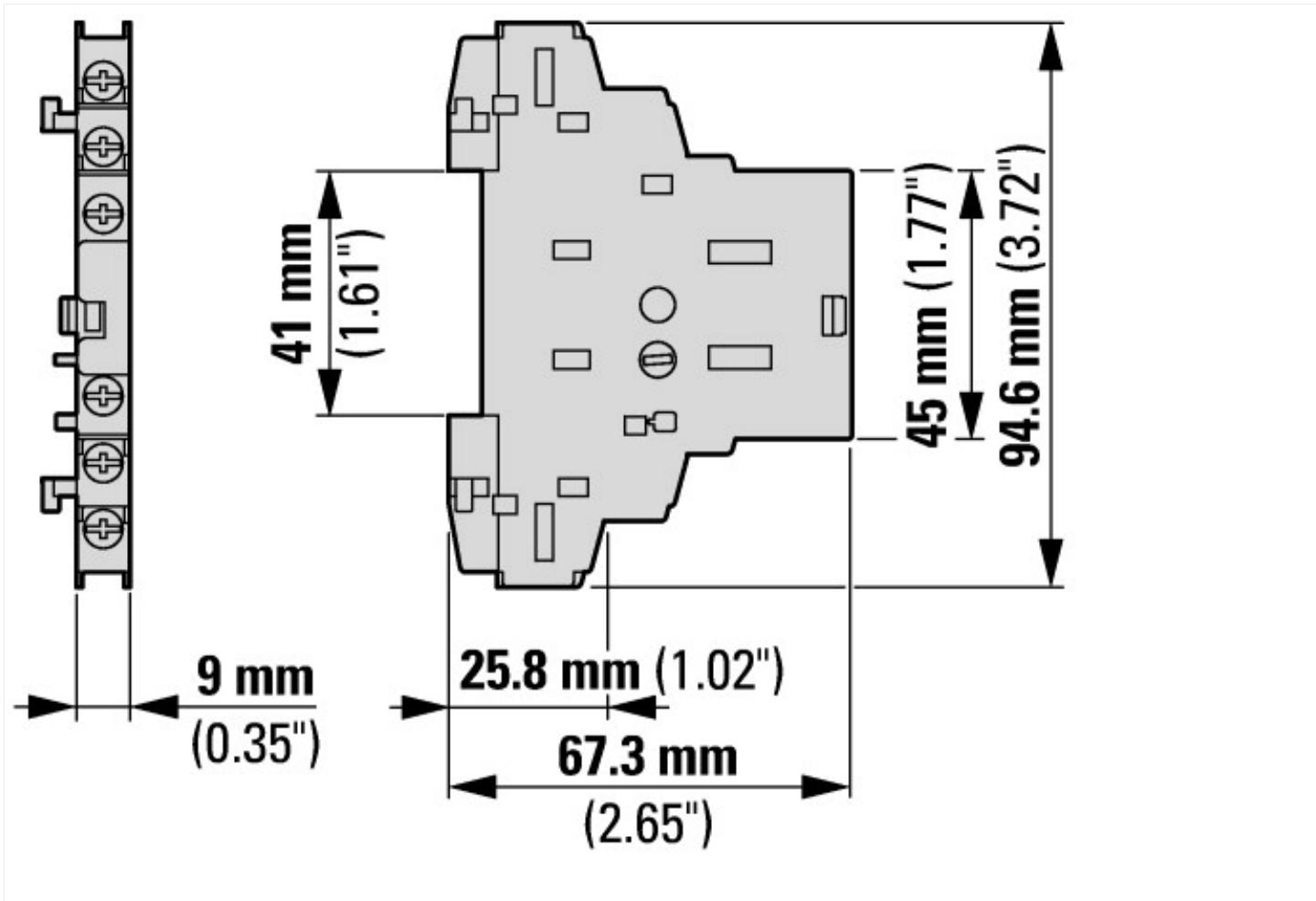
Approvals

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

Characteristics



Dimensions



Assets (links)

Instruction Leaflets

IL03801004Z2018_12

Additional product information (links)

IL03402034Z (AWA1210-1945) Motor-protective circuit-breaker, Starter

IL03402034Z (AWA1210-1945) Motor-protective circuit-breaker, Starter ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402034Z2018_06.pdf

IL03407011Z (AWA1210-1925) Motor-protective circuit-breaker

IL03407011Z (AWA1210-1925) Motor-protective circuit-breaker ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407011Z2018_04.pdf

Motor starters and "Special Purpose Ratings" for the North American market http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf

Busbar Component Adapters for modern Industrial control panels http://www.moeller.net/binary/ver_techpapers/ver960en.pdf