



Standard auxiliary contact, 1N/O, flush mounting, SmartWire-DT

Part no. NHI-E-10L-PKZ0
Catalog No. 107040
Alternate Catalog No. XTPAXFA10W

Delivery program

Product range		Accessories
Accessories		Standard auxiliary contact
Description		NHI-E-10-PKZ0 with connection cable AWG18 blue, for connection to SmartWire module for DILM.
Contacts		
N/O = Normally open		1 N/O
Contact diagram		
Contact sequence		

Technical data

Auxiliary contacts

Rated impulse withstand voltage	U_{imp}	V AC	4000
Overtoltage category/pollution degree			III/3
Rated operational voltage	U_e	V	
		V AC	440
		V DC	250
Safe isolation to EN 61140		V AC	690
			Between auxiliary contacts and main contacts
Rated operational current	I_e	A	
AC-15			
220 - 240 V	I_e	A	1
DC-13 L/R - 100 ms			
24 V	I_e	A	2
Lifespan		S	
Lifespan, mechanical	Operations	$\times 10^6$	> 0.1
Lifespan, electrical	Operations	$\times 10^6$	0.1
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)
Short-circuit rating without welding			
Fuse		A gG/gL	10

Terminal capacities

Solid or flexible conductor, with ferrule	mm^2	0,75 - 1,5
Solid or stranded	AWG	18 - 16

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	1
Heat dissipation per pole, current-dependent	P_{vid}	W	0.013
Equipment heat dissipation, current-dependent	P_{vid}	W	0.013
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)

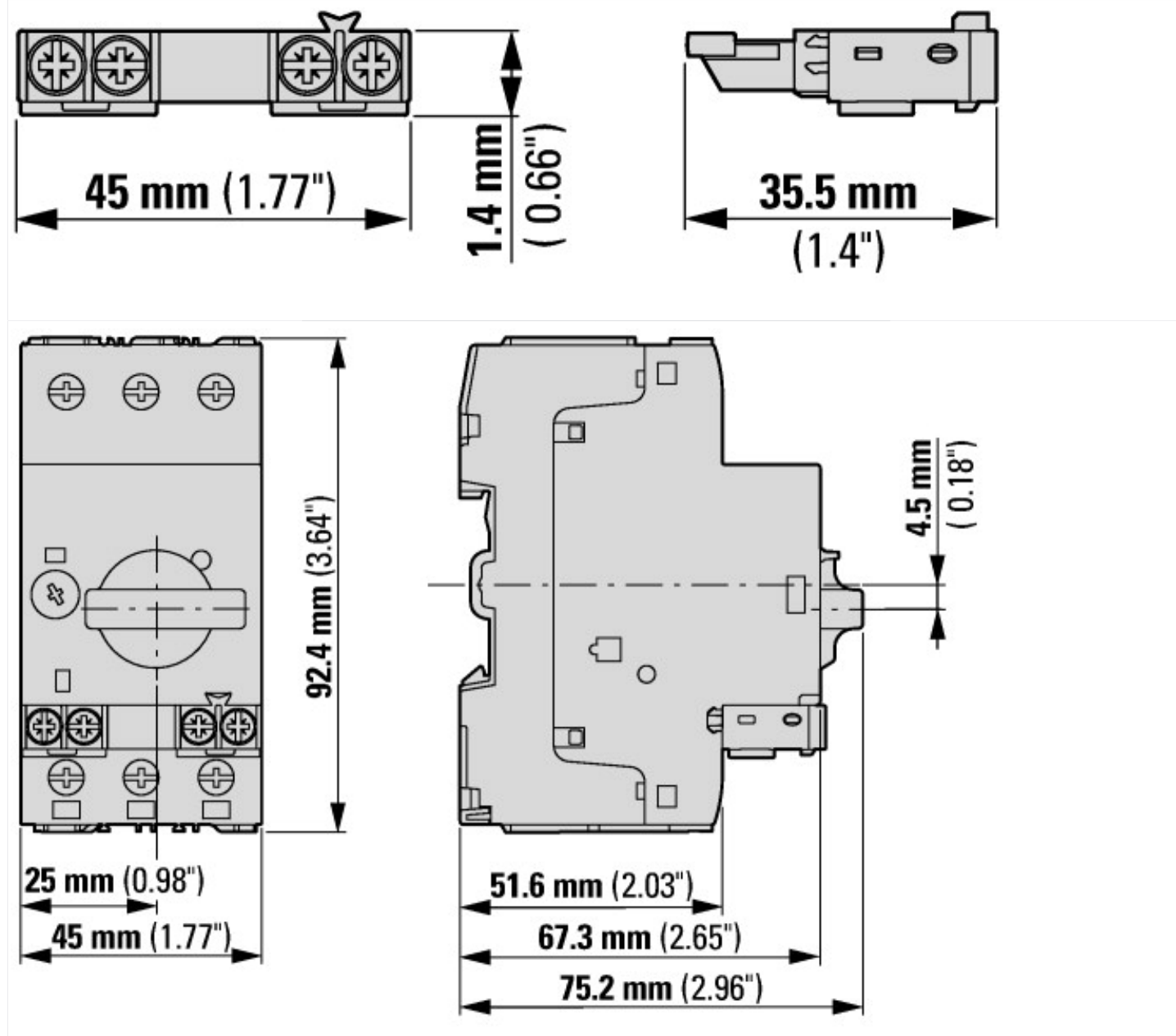
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

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

Approvals

Specially designed for North America			No
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Dimensions



Assets (links)

Declaration of CE Conformity

00002845

Instruction Leaflets

IL03801004Z2018_04

Additional product information (links)

IL03801004Z (AWA1210-1501) Integrated auxiliary contact

IL03801004Z (AWA1210-1501) Integrated auxiliary contact

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801004Z2018_12.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