DATASHEET - NHI-E-10L-PKZ0



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



Part no. Catalog No. Alternate Catalog No.

NHI-E-10L-PKZ0 107040 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	O L11213
Contact sequence	

Technical data

Devrolage category/pollution degree ارال ارال ارال Rated operational voltage עם ۷.0 40 Rated operational voltage עם ۷.0 40 Safe isolation to EN 61140 עם ۷.0 50 Between auxiliary contacts and main contacts ۷.0 40 60 Rated operational current ۷.0 40 60 AC-15 ۲ 1 7 200 240 V ۲ 4 1 7 DC-13 L/R - 100 ms ۲ 1 7 1 7 200 240 V ۲ 8 1 7 1 7 200 240 V ۲ 8 1	Auxiliary contacts			
Rated operational voltage V_{e} V_{e} V_{e} Rated operational cortacts and main contacts V_{e} V_{e} Between auxiliary contacts and main contacts V_{e} V_{e} Rated operational current V_{e} V_{e} Z_{e}^{-15} V_{e} V_{e} $Z_{e}^{-20} V_{e}^{-10}$ V_{e} V_{e} Z_{e}^{-15} V_{e} V_{e} Z_{e}^{-15} V_{e} V_{e} Z_{e}^{-15} V_{e} V_{e} $Z_{e}^{-10} V_{e}^{-10}$ V_{e} V_{e} $Z_{e}^{-10} V_{e}^{-10}$ V_{e} V_{e} $Z_{e}^{-10} V_{e}^{-10}$ V_{e} V_{e} $Z_{e}^{-10} V_{e}^{-10}$ V_{e}^{-10} V_{e}^{-10} $Z_{e}^{-10} V_{e}^{-10}$ V_{e}^{-10} V_{e}^{-10} $V_{e}^{-10} V_{e}^{-10}$ $V_{e}^{-10} V_{e}^{-10}$ $V_{e}^{-10} V_{e}^{-10}$ $V_{e}^{-10} V_{e}^{-10} V_{e}^{-10}$ $V_{e}^{-10} V_{e}^{-10} V_{e}^{-10}$ $V_{e}^{-10} V_{e}^{-10} V_{e$	Rated impulse withstand voltage	U _{imp}	V AC	4000
Line of the second se	Overvoltage category/pollution degree			111/3
Image: section of Exercision	Rated operational voltage	U _e	V	
Sele isolation to EN 61140 Image: selection of EN 61140 Between auxiliary contacts and main contacts Vac 690 Rated operational current Image: selection of EN 61140 Yac 600 AC-15 Image: selection of EN 61140 Yac 700 220-240 V Image: selection of EN 61140 Yac 700 DC-13 L/R - 100 ms Image: selection of EN 61140 Yac 700 24 V Image: selection of EN 61140 Yac 700 Lifespan, mechanical Operations Yac 700 Lifespan, electrical Operations Yac 700 Stort- icrcuit reliability Failure at 100 million operations close clo		U _e	V AC	440
Betwee naxiliary contacts and main contacts VAC 90 Rated operational current VAC 60 AC-15 A - 20-240 V A - DC-13 L/R - 100 ms P A 24 V A - Idespan, mechanical Perations S Lifespan, mechanical Operations r 3 Lifespan, electrical Operations r 0 Control circuit reliability Operations r 0 Fuse A N - Fuse A A - Terminal capacities Y Y Y		U _e	V DC	250
Rated operational currentInAAC-15InIn20-240 VInInDC-13 L/R - 100 msInIn24 VInInIdespanInSLifespan, mechanicalOperationsN 10Lifespan, nechanicalOperationsN 10Control circuit reliabilityFailure are InseN 10Sort-circuit reliabilityFailure are InseN 10FuseInA 10Control circuit reliabilityInFuseInA 10Terminal CapacitiesInStort-circuit reliabilityInStort-circuit reliabilityInFuseInStort-circuit reliabilityInInseIn	Safe isolation to EN 61140			
AC-15 Image: Participation of the state of the sta	Between auxiliary contacts and main contacts		V AC	690
20 - 240 V In In In DC-131/R - 100 ms In In In 24 V In In In 24 V In In In Lifespan In In In Lifespan, mechanical Operations x 10 ⁶ In Lifespan, electrical Operations x 10 ⁶ In Control circuit reliability Operations x 10 ⁶ In Short-circuit rating without welding Y Y Y Fuse A gofue A gofue In Suid of flexible conductor, with ferrule In Nam2 Nam2	Rated operational current	l _e	А	
DC-13 L/R - 100 ms No	AC-15			
24 VAALifespanSLifespan, mechanicalOperationsx 10 ⁶ Lifespan, electricalOperationsx 10 ⁶ Control circuit reliabilityFailure rateAFuseASFuseAAControl circuit reliabilityAAFuseAABidler etaAAA regionAAA regionAABidler etaAAA regionAAA region	220 - 240 V	l _e	Α	1
LifespanSLifespan, mechanicalOperationsx 10 ⁶ Lifespan, electricalOperationsx 10 ⁶ Control circuit reliabilityFailure rateλFuseA gGy10 ⁻⁶ , < one failure at 100 million operations (at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA)Terminal capacitiesJA gGySolid or flexible conductor, with ferruleImm ² N5-1,5	DC-13 L/R - 100 ms			
Lifespan, mechanicalOperations x_{10}^8 >.01Lifespan, electricalOperations x_{10}^8 0.1Control circuit reliabilityFailure rate λ_{cont} λ_{cont} Short-circuit rating without weldingFailure rate λ_{cont} λ_{cont} FuseNoNoNoControl circuit reliabilityShort-circuit rating without weldingNoFuseNoNoControl circuit reliabilityShort-circuit rating without weldingNoFuseNoNoControl circuit reliabilityShort-circuit rating without weldingNoFuseNoNoSolid or flexible conductor, with ferruleImm2NoNoNoSolid or flexible conductor, with ferruleNo	24 V	l _e	А	2
Lifespan, electricalOperationsx 10°Control circuit reliabilityFailure 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 weldingImmediateImmediateFuseImmediateImmediateSolid or flexible conductor, with ferruleImmediateImmediateSolid or flexible conductor, with ferruleImmediateImmedi	Lifespan		S	
Control circuit reliabilityFailure rateλ λ^{10^3} λ^{1	Lifespan, mechanical	Operations	x 10 ⁶	> 0.1
Short-circuit rating without welding Image: Circuit rating without welding Fuse A gG/gL Terminal capacities Image: Circuit rating with ferrule Solid or flexible conductor, with ferrule mm²	Lifespan, electrical	Operations	x 10 ⁶	0.1
Fuse A gG/gL Terminal capacities Solid or flexible conductor, with ferrule mm ²	Control circuit reliability	Failure rate	λ	
Terminal capacities Solid or flexible conductor, with ferrule mm ² 0,75 - 1,5	Short-circuit rating without welding			
Solid or flexible conductor, with ferrule mm ² 0,75 - 1,5			A gG/gL	10
	Terminal capacities			
Solid or stranded AWG 18 - 16	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

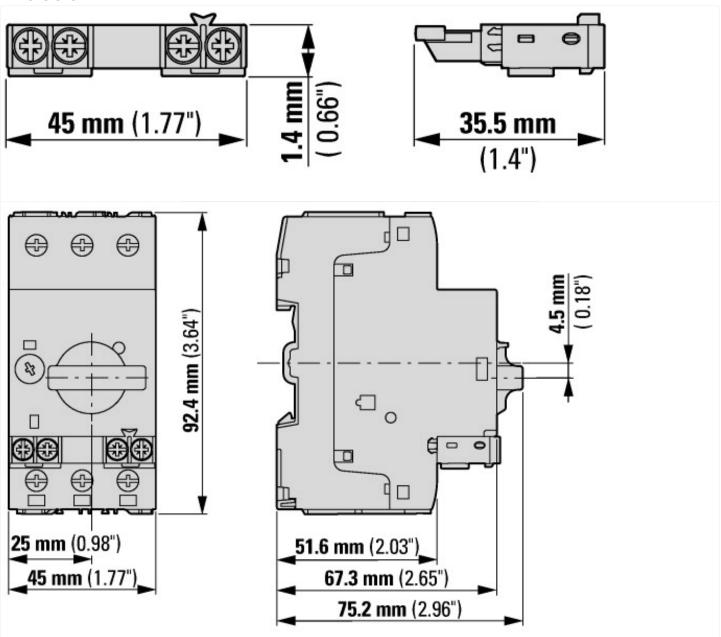
echnical data for design verification			
Rated operational current for specified heat dissipation	In	А	1
Heat dissipation per pole, current-dependent	P _{vid}	W	0.013
Equipment heat dissipation, current-dependent	P _{vid}	W	0.013
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25

Operating ambient temperature max.	°C	55
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 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 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 le at AC-15, 230 V		А	1
Type of electric connection			Screw connection
Model			Top mounting
Mounting method			Front fastening
Lamp holder			None
Approvals			
Specially designed for North America			No

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	