

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

Part no. NHI21-PKZ0
072894
EL Number 4355132
(Norway)

General specifications		
Product name		Eaton Moeller® series NHI Accessory Standard auxiliary contact
Part no.		NHI21-PKZ0
EAN		4015080728948
Product Length/Depth		68 millimetre
Product height		90 millimetre
Product width		15 millimetre
Product weight		0.038 kilogram
Certifications		CE CSA UL Category Control No.: NLRV CSA Class No.: 3211-05 IEC/EN 60947-4-1 CSA File No.: 165628 UL File No.: E36332 UL 508 CSA-C22.2 No. 14 UL
Product Tradename		NHI
Product Type		Accessory
Product Sub Type		Standard auxiliary contact
Catalog Notes		Can be retrofitted on the right side of motor-protective circuit-breakers
Features & Functions		
Electric connection type		Screw connection
Features		Interlocked opposing contacts
General information		
Lifespan, electrical		50,000 Operations
Model		Top mounting
Mounting method		Side mounting
Overvoltage category		III
Pollution degree		3
Product category		Accessories
Rated impulse withstand voltage (Uimp)		6000 V AC
Used with		Motor protective circuit-breaker
Climatic environmental conditions		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		55 °C
Terminal capacities		
Terminal capacity (solid/flexible with ferrule)		0.75 - 1.5 mm ²
Terminal capacity (solid/stranded AWG)		18 - 14, Screw terminals
Electrical rating		
Rated operational current (Ie)		1 A at AC-15, 440 V 500 V
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V		3.5 A
Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V		2 A
Rated operational current (Ie) at DC-13, 110 V		0.5 A
Rated operational current (Ie) at DC-13, 220 V, 230 V		0.25 A
Rated operational current (Ie) at DC-13, 24 V		2 A
Rated operational current (Ie) at DC-13, 60 V		1 A
Rated operational voltage (Ue) at AC - max		500 V
Rated operational voltage (Ue) at DC - max		250 V
Safe isolation		440 V, Between auxiliary contacts and main contacts, According to EN 61140

Short-circuit protection rating without welding			10 A gG/gL, Fuse, Auxiliary contacts
Switching capacity			
Switching capacity (auxiliary contacts, general use)			5 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)			Q300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
Communication			
Connection type			Screw connection
Contacts			
Control circuit reliability			< 2 λ, < 1 failure at 100,000,000 Operations (at U# = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
Number of contacts (change-over contacts)			0
Number of contacts (normally closed contacts)			1
Number of contacts (normally open contacts)			2
Design verification			
Equipment heat dissipation, current-dependent Pvid			0 W
Heat dissipation capacity Pdis			0 W
Heat dissipation per pole, current-dependent Pvid			0.04 W
Rated operational current for specified heat dissipation (In)			3.5 A
Static heat dissipation, non-current-dependent Pvs			0 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0

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 (ecI@ss13-27-37-13-02 [AKN342018])			
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 Ie at AC-15, 230 V		A	3.5
Type of electric connection			Screw connection
Model			Clip-on
Mounting method			Side mounting

