Dold Series Force Guided Relays





HC3096N-48-900-24

HC3096N-52-900-24





Overview

Force guided relays are constructed such that it is not possible for all contacts to be closed at the same time. Dold force guided relays have at least one N.C. contact set and one N.O. contact set. If a N.O. contact fails when trying to open, the associated N.C. contact cannot close when the power supply is switched off.

Force guided relays offer a cost and space saving alternative to contactors while providing simple contact monitoring via a forcibly quided N.C. contact.

Features

- Large wire cross-section (12-24 AWG) reduces thermal load on wires
- · Polarity protection diode
- 35mm DIN rail mounting per IEC/EN 60715
- · No mounting restrictions
- Available as plug and socket, or integrated module
- Module version possesses LED for indication
- · Available in 4PST and 6PST configurations







Force Guided Relays								
Part Number	Price	Drawing Links	Туре	Coil Voltage	Configuration	Contact Rating	Compatible Relay Socket	
HC3096N-48-900-24	\$40.50	PDF	Module		4PST		NIA	
HC3096N-52-900-24	\$37.50	PDF	Module		4PST		NA	
OA5611-48-24	\$16.50	PDF	Relay		4PST		LIC200CN 400 04	
OA5611-52-24	\$16.50	PDF	Relay		4PST		HC3096N-102-24	
HL3096N-18-900-24	\$51.00	PDF	Module		6PST			
HL3096N-50-900-24	\$51.00	PDF	Module	041/00	6PST	5.4	NA.	
HL3096N-54-900-24	\$51.00	PDF	Module	- 24VDC	6PST	5A	NA	
HL3096N-60-900-24	\$51.00	PDF	Module		6PST			
OA5612-18-24	\$23.00	PDF	Relay		6PST			
OA5612-50-24	\$23.00	PDF	Relay		6PST		LII 2000CN 400 04	
OA5612-54-24	\$23.00	PDF	Relay		6PST		HL3096N-102-24	
OA5612-60-24	\$23.00	PDF	Relay		6PST			

Relay Sockets								
Part Number Price Drawing Links Type Maximum Screw Torque Maximum Wire Sizes Weig								
HC3096N-102-24	\$27.00	PDF	Socket	All terminals: 4.4 in·lbs/0.5 N·m	All terminals: 12 to 24 AWG	45g [1.59 oz]		
HL3096N-102-24	\$29.50	PDF	Socket	All terminals: 4.4 in·lbs/0.5 N·m	All terminals: 12 to 24 AWG	63g [2.22 oz]		

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Dold Force Guided Relays

Force Guided Relay Specifications for 4PST Relays									
Part Number		HC3096N-48-900-24	HC3096N-52-900-24	<u>0A5611-48-24</u>	<u>0A5611-52-24</u>				
General Specifications	S								
Service Life		Mechanical: 50 million operations							
Temperature	Operating	Electrical: 200,000 operations @ rated resistive load -40 to 55°C [-40 to 131°F]							
Rating	Storage	-40 to 70°C [-40 to 158°F]							
Operational Maxim Relative Humidity	num		93% at	40°C					
Bosponso Timo	perate		20r	ns					
Response Time R	elease		6m	ns					
Vibration Resistan	ce		0.35 mm at	: 10–55 Hz					
Shock Resistance			Category 1, Class	B, IEC/EN 61373					
Weight g(oz)		71 [•	1.16]				
NEMA B300 Pilot D		Yes							
Agency Approvals	and Standards	UL file E146415							
Coil Specifications									
Coil Input Voltage		24VDC							
Coil Resistance		820Ω							
Power Consumption	on	0.6 W							
Dropout Voltage		1.2 VDC							
Pull-in Voltage		19.8 VDC							
Max. Voltage (Max. Continuous	Voltage)	26.4 VDC							
Contact Specifications	3								
Contacts		3 N.O. / 1 N.C.	2 N.O. / 2 N.C.	3 N.O. / 1 N.C.	2 N.O. / 2 N.C.				
Contact Material		AgNi + 0.2μ Au							
Minimum Switchin	g Requirement		10V AC/D	10V AC/DC - 10mA					
Contact Rating		Refer to Contact Ratings table below							
Dielectric Strength Contacts	Between	4kV							
IP Rating		Housing: IP40 IEC/EN 60 529 Terminals: IP20 IEC/EN 60 529							
Housing Material		Thermoplastic							

Force Guided Relay Contact Ratings (current)									
Contact Type	Contact Type Voltage AC15 DC13								
N.C.	24VDC	-	4A						
N.O.	N.O. 24VDC - 4A								
N.C.	250 VAC	1A	-						
N.O.	250 VAC	2A	-						

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Dold Force Guided Relays

Force Guided Relay Specifications for 6PST Relays									
Part Number		HL3096N-18-900-24	HL3096N-50-900-24	HL3096N-54-900-24	HL3096N-60-900-24	<u>0A5612-18-24</u>	<u>0A5612-50-24</u>	<u>0A5612-54-24</u>	<u>0A5612-60-24</u>
General Specification	ons								
Service Life					Mechanical: 50 m				
T	Operating			Electrical	-40 to 55°C [-		stive load		
Temperature Rating	Storage				-40 to 70°C [-				
Operational Max	_					-			
Relative Humidit	у				93% at				
Response Time	Operate				20r				
	Release				6m				
Vibration Resista					0.35 mm at				
Shock Resistand	e		00 - 10 4		ategory 1, Class	ss B, IEC/EN 61373			
Weight	. Dutu Datad	90g [3.17 oz] 63g [2.22 oz]							
NEMA B300 Pilos Agency Approva									
Standards	is and	UL file E146415							
Coil Specifications									
Coil Input Voltag	е				24V	DC			
Coil Resistance			I	T	650	Ω	I		
Power Consump	tion	0.8 W	1.0 W	0.8 W	0.8 W	0.8 W	1.0 W	0.8 W	0.8 W
Dropout Voltage					1.2 \	/DC			
Pull-in Voltage					19.8	VDC			
Max. Voltage (Max. Continuou	s Voltage)	26.4 VDC							
Contact Specifications									
Contacts		3 N.O. / 3 N.C.	2 N.O. / 4 N.C.	4 N.O. / 2 N.C.	5 N.O. / 1 N.C.	3 N.O. / 3 N.C.	2 N.O. / 4 N.C.	4 N.O. / 2 N.C.	5 N.O. / 1 N.C.
Contact Material		AgNi + 0.2μ Au							
Minimum Switch Requirement	ing	10V AC/DC - 10mA							
Contact Rating		Refer to Contact Ratings table below							
Dielectric Streng Contacts	th Between	4kV							
IP Rating		Housing: IP40 IEC/EN 60 529 Terminals: IP20 IEC/EN 60 529							
Housing Materia	ı	Thermoplastic							

Force Guided Relay Contact Ratings (current)								
Contact Type Voltage AC15 DC13								
N.C.	24VDC	-	4A					
N.O.	24VDC	-	4A					
N.C.	250VAC	1A	-					
N.O.	250VAC	2A	-					

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