


Product Details and Certifications

Cross Reference RA Part Number: 700-HP32A1 A

 Product: **700-HP32A1**

Description: 700-HP General Purpose PCB PIN Style Relay, Slim Line Relay with "PIN Style" Terminations, 8 A, 2 Pole, DPDT, 120V 50/60Hz



Representative Photo Only (actual product may vary based on configuration sections)

CONTROL RELAY DATA

Bulletin Number	700-HP Pin Style Relay
Relay Type	Slim Line Relay with "PIN Style" Terminations
Contact Type	Standard Silver Contacts
Contact Rating	8A Contact
Contact Configuration	DPDT Contact Arrangement
Coil Voltage	120V 50/60Hz
Poles	2 Pole
NOTE	The standard package is 10 pc/box

CERTIFICATIONS AND APPROVALS

UL
cURus
CSA
CE
LR
EN
For UL Certifications Directory: <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

Bulletin No.	700-HC	700-HK	700-HL	700-HP
Type	Interposing/Isolation Relay	Interposing/Isolation Relay	Interposing/Isolation Relay	Interposing/Isolation Relay
Features	<ul style="list-style-type: none"> Blade-style terminals Standard ON/OFF flag indicator Electrical schematic on face Clear cover for visual inspection Optional push-to-test and manual override Optional LED 	<ul style="list-style-type: none"> Optional pilot light Retainer clip (comes with socket) Low switching capacity Push-to-test & manual override 	<ul style="list-style-type: none"> Ideal for PLC Interfaces Built-in Coil Surge Protection Fully Assembled Relay/Sockets Standard LED Relay or Solid-state Output Optional: Leakage Current Suppression Solution 	<ul style="list-style-type: none"> PCB "Pin Style" mounting 5 mm pin spacing
Contact Ratings				
Contact Form	DPDT, 4PDT	SPDT, DPDT	SPDT 1 N.O. (SSR)	DPDT
Contact Type	Single	Single	Single	Single
Contact Material	AgNi, AgNi + Gold	AgNi, AgNi + Gold	AgSnO	AgNi, AgNi + Gold
Max. operating current under resistive load	10 A (DPDT) 7 A (4PDT)	8 A (DPDT), 16 A (SPDT)	6 A (SPDT), 2 A (SSR DC output), 1 A (SSR AC output)	8 A
Min. permissible load	10V, 10 mA (Gold), 5V, 10 mA or 25V, 2 mA (Silver)	5V 60 mA (Silver), 5V 10 mA (Gold)	12V 6 mA (72 mW) Silver 8V, 2.5 mA (20 mW) Gold	5V 5 mA (50 mW) Gold, 5V 5 mA (300 mW) Silver
Coil Ratings				
Coil Voltage	AC: 6, 12, 24, 120, 240V DC: 6, 12, 24, 48, 110V	AC: 6, 12, 24, 120, 240V DC: 6, 12, 24, 48, 110V	AC: 12, 24, 48, 110, 120, 230, 240V DC: 12, 24, 48, 125, 230, 240V	AC: 6, 12, 24, 120, 240V DC: 6, 12, 24, 48, 110V
Permissible Coil Voltage Variation	80...110% of Nominal Voltage at 50 Hz 80...110% of Nominal Voltage at 60 Hz 80...110% of Nominal Voltage at DC	80...110% of Nominal Voltage at 50 Hz 80...110% of Nominal Voltage at 60 Hz 73...110% of Nominal Voltage at DC	85...110% of Nominal Voltage at 50 Hz 85...110% of Nominal Voltage at 60 Hz 80...110% of Nominal Voltage at DC	80...110% of Nominal Voltage at 50 Hz 80...110% of Nominal Voltage at 60 Hz 73...150% of Nominal Voltage at DC
Electrical Ratings				
Dielectric Withstand Voltage	Pole-to-pole: 1000V Contact-to-coil: 2000V Contact-to-frame: 2000V	Pole-to-pole: 1500V AC Contact-to-coil: 1500V AC Contact-to-frame: 1500V AC	Pole-to-pole: 1000V AC Contact-to-coil: 4000V Contact-to-frame: 1500V	Pole-to-pole: 2000V Contact-to-coil: 5000V
Electric Service Life (cycles)	100 000 minimum	100 000 minimum	100 000 minimum	100 000 minimum
Reference				
Certifications	CE, cULus, cURus, CSA, Lloyds	CE, UL, UR, CSA	CE, cURus, cULus, ABS	CE, cULus, cURus, CSA, Lloyds
Socket Type	700-HN103, 700-HN128, 700- HN104	700-HN121, -HN221 700-HN122, -HN222 700-HN223, -HN224	—	700-HN123, -HN230
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Interposing/Isolation Relays

Product Overview/Product Selection



Bulletin 700-HP — (PCB) "Pin Style" Relay

- 8 A contact ratings
- DPDT/ (2 c/o) contacts
- Plug-in PIN style (PCB) terminals (5 mm pinning)
- Choice of standard silver nickel contacts, or silver nickel with gold-plated contacts

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Product Selection

Slim Line Relay with "PIN Style" Terminations

	Description	Contact Rating	Wiring Diagrams		Coil Voltage	Package Quantity	Cat. No.
			U.S./Canada	International			
	DPDT 2-Pole 2 Form C AgNi + Au Gold Plated Contacts Sockets	8 A			6V AC	10	700-HPX2A06
					12V AC	10	700-HPX2A12
					24V AC	10	700-HPX2A24
					120V AC	10	700-HPX2A1
					240V AC	10	700-HPX2A2
					6V DC	10	700-HPX2Z06
					12V DC	10	700-HPX2Z12
					24V DC	10	700-HPX2Z24
					48V DC	10	700-HPX2Z48
					110V DC	10	700-HPX2Z1
					6V AC	10	700-HP32A06
					12V AC	10	700-HP32A12
					24V AC	10	700-HP32A24
					120V AC	10	700-HP32A1
					240V AC	10	700-HP32A2
6V DC	10	700-HP32Z06					
12V DC	10	700-HP32Z12					
24V DC	10	700-HP32Z24					
48V DC	10	700-HP32Z48					
110V DC	10	700-HP32Z1					
Bulletin 700-HP DPDT	Sockets		700-HN123	700-HN123			



Bulletin 700-HP
Interposing/Isolation Relays
 Specifications

Bulletin 700-HP Pin Style (PCB) Slim Line Relay, Socket, and Retainer Clip Reference Chart

Relay Type	Socket Cat. No.	Retainer Clip Cat. No.
700-HPX2	700-HN123	700-HN119
700-HP32	700-HN123	700-HN119

Specifications *



Cat. No. 700-HP...			
Electrical Ratings			
Pilot Duty Rating*		C300, R300	
Rated Thermal Current (I_{th})		2-Pole — 8A	
Rated Insulation Voltage (U_i)		250V IEC, 300V UL/CSA	
Contacts	Inductive	2-Pole	
		▶][◀	◀][▶
	120V AC, 1-phase	15 A	1.5 A
	240V AC, 1-phase	7.5 A	0.75 A
	General Purpose	8 A, 277V AC	
	Resistive	8 A, 30V DC	
Min. Permissible Contact Ratings		700-HP32 = 300 mW (5V, 5 mA) 700-HPX = 50 mW (5V, 5 mA)	
Permissible Coil Voltage Variation		Pickup: 80...110% of Nominal Voltage at 50 Hz 80...110% of Nominal Voltage at 60 Hz 73...150% of Nominal Voltage at DC	Must Drop-out Voltage: 20% of Nominal Coil Voltage AC 10% of Nominal Coil Voltage DC
Sealed Power Consumption ±10%	AC Coils	Max. Allowable Leakage OFF 25% of VA‡ 1.2 VA 50 Hz 1.0 VA 60 Hz	
	DC Coils	Max. Allowable Leakage of 10% of W 0.5 W	
Design Specification/Test Requirements			
Dielectric Withstand Voltage for One Minute	Pole to Pole (VRMS)	1000V AC	
	Contact to Coil (VRMS)	5000V AC	
Mechanical			
Degree of Protection		Open Type (Sockets)	
Mechanical Life Cycles		10 x 10 ⁶ (AC Coils), 20 x 10 ⁶ (DC coils)	
Switching Frequency Operations		1800/hr (no load)	
Coil Voltages		See Overview/Product Selection	
Operating Time at Nominal Voltage at 20 °C (ms)	Pickup	12	
	Dropout	4	
Maximum Operating Rate		16 Ops/s (full load)	
Vibration	Enclosure	5 G	
	Fragility	2.5 G	
Shock	Endurance	50 G	
	Fragility	15 G	
Max. Socket Torque		0.5 N•m (4.4 lb•in)	
Environmental			
Temperature	Operating	-40...+85 °C	
	Storage	-45...+100 °C	
Altitude		2000 m (6560 ft)	
Construction			
Insulating Material		Molded High-Dielectric Material	
Enclosure		Transparent Dust Cover	
Contact Material		Silver Nickel, (AgNi) (700-HP3), Silver Nickel + Gold Plating (AgNi + Au) (700-HPX)	
Terminal Markings on Socket		In accordance with EN50 0005	
Sockets		2-Pole	
		700-HN123	
Approvals			
Certifications		cURus Recognized (File No. E3125, Guide NLDX2/NLDX8), cULus Listed when used with Bulletin 700-HN123 socket (File No. E3125, Guide NLDX/NLDC7), CSA Certified (files 229473), CE Marked, LR Certified	
Standards		UL 508, CSA 22.2 No. 14, EN 61812-1, EN 60255-23	

* Performance Data – See this catalog, Important- 3.

* NEMA Rating Chart is in publication 700-SG003*

‡ The inrush VA equals 1.5 times the sealed VA.