

Bulletin 700-HB

General Purpose Relays

Product Overview/Product Selection



Bulletin 700-HB — Square Base Relay

- 15 A contact rating
- DPDT, 3PDT
- Blade-style quick connect terminals
- Standard ON/OFF flag indicator
- Options: LED, push-to-rest, and manual override
- Faston 187 (4.8 x 0.5 mm)

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Product Selection

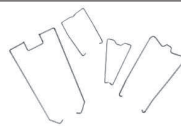
Bulletin 700-HB Square Base Relay with Blade Style Quick Connect/Solder Terminations — Mechanical ON/OFF Indicator Included

	Description	Contact Rating	Wiring Diagrams		Coil Voltage	Cat. No.*§
			U.S./Canada	International		
	DPDT 2-Pole 2 Form C Single AgCdO Contact Sockets	15 A B300	 700-HN154	 700-HN153	6V AC	700-HB32A06
					12V AC	700-HB32A12
					24V AC	700-HB32A24
					120V AC	700-HB32A1
					240V AC	700-HB32A2
					6V DC	700-HB32Z06
					12V DC	700-HB32Z12
					24V DC	700-HB32Z24
					48V DC	700-HB32Z48
					110V DC	700-HB32Z1
					6V AC	700-HB33A06
					12V AC	700-HB33A12
	3PDT 3-Pole 3 Form C Single AgCdO Contact Sockets	15 A B300	 700-HN154	 700-HN153	24V AC	700-HB33A24
					120V AC	700-HB33A1
					240V AC	700-HB33A2
					6V DC	700-HB33Z06
					12V DC	700-HB33Z12
					24V DC	700-HB33Z24
					48V DC	700-HB33Z48
					110V DC	700-HB33Z1

* LED Option: Add suffix **(-4)** to the selected Bulletin 700-HB Relay Cat. No., except for the 240V AC Units, add **(-4L)**.

§ Push-to-test, Manual Override, and LED Option: Add suffix **(-3-4)** to the selected Bulletin 700-HB Relay Cat. No., except for the 240V AC units, add **(-3-4L)**.

§ Push-to-test and Manual Override option: Add suffix **(-3)** to the selected Bulletin 700-HB relay.

	Description	Pkg. Qty.	Cat. No.																								
	Diode Surge Suppressor Voltage Range: 6...220V DC used with 700-HN153 socket	10	700-ADR																								
	Diode with LED Surge Suppressor Voltage Range: 6...24V DC used with 700-HN153 socket	10	700-ADL1R																								
	Diode with LED Surge Suppressor Voltage Range: 28...60V DC used with 700-HN153 socket	10	700-ADL2R																								
	Diode with LED Surge Suppressor Voltage Range: 110...220V DC used with 700-HN153 socket	10	700-ADL3R																								
	Varistor with LED Surge Suppressor Voltage Range: 6...24V AC used with 700-HN153 socket	10	700-AV1R																								
	Varistor with LED Surge Suppressor Voltage Range: 110...240V AC used with 700-HN153 socket	10	700-AV3R																								
	RC Surge Suppressor Voltage Range: 6...24V AC/DC used with 700-HN153 socket	10	700-AR1																								
	RC Surge Suppressor Voltage Range: 110...240V AC/DC used with 700-HN153 socket	10	700-AR2																								
	Timing Module On-Delay or One-Shot selectable voltage range: 12...24V AC/DC used with sockets that accept plug-in accessory modules.	1	700-AT3																								
	Timing Module On-Delay or One-Shot selectable voltage range: 110...125V AC used with sockets that accept plug-in accessory modules.		700-AT3A1																								
	Timing Module On-Delay or One-Shot selectable voltage range: 230...240V AC used with sockets that accept plug-in accessory modules.		700-AT3A2																								
 Cat. No. 700-HT3	Multi-Function Multi-Range Time Module Voltage range 12...240V AC 50/60 Hz and 12...240V DC, with a voltage variation of 85...110%. Repeat accuracy of ±1%. Reset time <50 ms. For use with 700-HN153 socket. Refer to page 9-23 for Specifications. Eight Timing Modes Seven Timing Ranges: <table><tr><td>1. 1 s</td><td>0.05 s...1 s</td><td></td></tr><tr><td>2. 10 s</td><td>0.5 s...10 s</td><td></td></tr><tr><td>3. 100 s</td><td>5 s...100 s</td><td></td></tr><tr><td>4. 10 min.</td><td>0.5 min...10 min</td><td></td></tr><tr><td>5. 100 min.</td><td>5 min...100 min</td><td></td></tr><tr><td>6. 10 hours</td><td>0.5 hr...10 hr</td><td></td></tr><tr><td>7. 100 hours</td><td>5 hr...100 hr</td><td></td></tr><tr><td>8. LED Indicator</td><td></td><td></td></tr></table>	1. 1 s	0.05 s...1 s		2. 10 s	0.5 s...10 s		3. 100 s	5 s...100 s		4. 10 min.	0.5 min...10 min		5. 100 min.	5 min...100 min		6. 10 hours	0.5 hr...10 hr		7. 100 hours	5 hr...100 hr		8. LED Indicator			1	700-HT3
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6. 10 hours	0.5 hr...10 hr																										
7. 100 hours	5 hr...100 hr																										
8. LED Indicator																											
 Cat. No. 700-HN153	Screw Terminal Socket — Panel or DIN Rail Mounting. Guarded Terminal Construction 11-blade socket for use with Bulletin 700-HB relays. This socket has coil and contact separation as well as the ability to use optional plug-in modules (700-A__ accessories, LED, surge suppression, timing modules).	10	700-HN153																								
 Cat. No. 700-HN154	Screw Terminal Base Socket — Panel or DIN Rail Mounting. Open Style Construction 11-blade for use with Bulletin 700-HB relays.	10	700-HN154																								
 Cat. No. 199-DR1	DIN (#3) symmetrical hat rail 35 x 7.5 x 1 m	10	199-DR1																								
 Sample Retainer Clips	Retainer Clip for Cat. No. -HN154 open terminal socket with 700-HB relays* Secures relay in socket. Order must be for 10 clips or multiples of 10.	10	700-HN156																								
	Retainer Clip for Cat. No. 700-HN153 Sockets with 700-HB Relays* . Secures relay in socket. Order must be for 10 clips or multiples of 10.	10	700-HN158																								

* See Bulletin 700-HB square base relay socket and retainer clip reference chart (see page 9-22).



Allen-Bradley

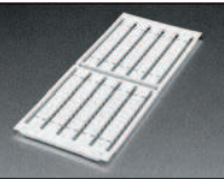
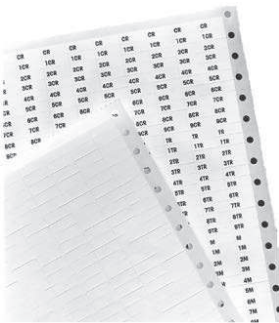
www.ab.com/catalogs Preferred availability cat. nos. are **bold**.

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Bulletin 700-HB

General Purpose Relays

Accessories

	Description	Pkg. Qty.	Cat. No.
 Snap-in markers	Relay Identification Snap-in Markers† Snap-in markers fit on top of product covers. The following are blank cards. Squares slip into molded slot on top of product covers.	100	1492-MS5X12 1492-MS6X9 1492-MS6X12 1492-MS8X9 1492-MS8X12 1492-MP-Blank
	Pre-Printed Identification Tags — contains 10 sheets of pre-printed and blank tags. Each sheet contains 13 sets of the markings CR...9CR, TR...9TR, M...9M, F, R, 1S, and 117 blank tags. Tags are peel-off with sticky backing for easy placement on relays.	10	700-N40
	Blank Identification Tags — contains 10 sheets of blank identification tags for customer specialized printing. Each sheet contains 546 blank tags. Tags are peel-off with sticky backing for easy placement on relays.	10	700-N41

† For pre-printed marker cards, turn to the following 1492 sections of publication A115: 1492-MS5X12_, 1492-MS6X9_, 1492-MS8X9_ , 1492-MS8X12_, 1492-MP_.

Relay Type	Socket Cat. No.	Retainer Clip Cat. No.
700-HB	700-HN153 700-HN154	700-HN158 700-HN156

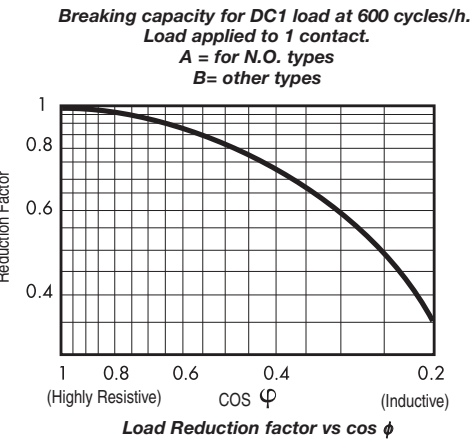
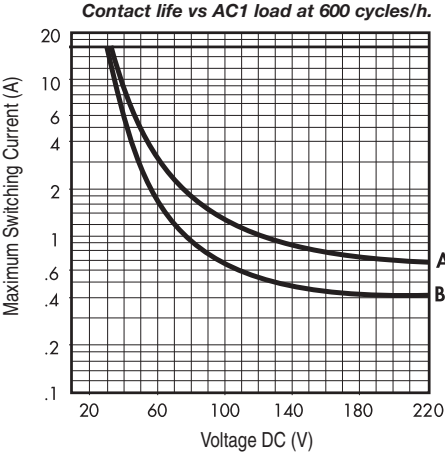
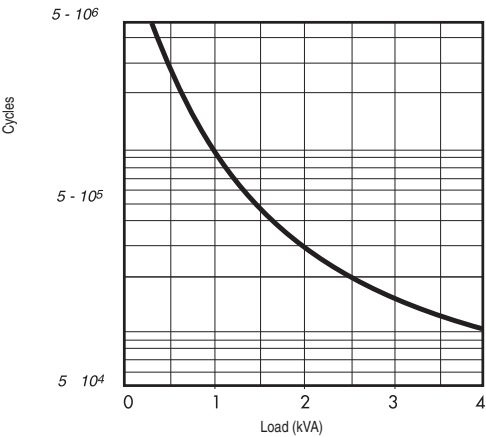
Specifications

Cat. No. 700-HB...						
Electrical Ratings						
Pilot Duty Rating❄		NEMA B300				
Rated Thermal Current (I_{th})		15 A – 120V, 240V				
Rated Insulation Voltage (U)		250V IEC-300V UL/CSA				
Contacts	Inductive	Make		Break		Hp
		▶][◀		◀][▶		
		2 -Pole	3 -Pole	2 -Pole	3 -Pole	
	120V AC	60 A	30 A	6 A	3 A	3/4
	240V AC	30 A	15 A	3 A	1.5 A	2
	General Purpose	15 A, 240V AC				
	Resistive	15 A, 30V DC				
Min. Low Energy Permissible Load		1000 mW (10V, 10 mA)				
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				
Coil Consumption ±10%	AC Coils	50 Hz		60 Hz		
	Inrush	3.3 VA		2.85 VA		
	Sealed	2.2 VA		1.9 VA		
	DC Coils	1.3 W				
Max. Allowable Leakage		25% of VA				
		10% of W				
Max. Contact Resistance		50 mΩ				
Design Specification/Test Requirements Electrical						
Dielectric Withstand Voltage						
Pole-to-Pole		1500V				
Contact to Coil		6000V				
Contact to Frame		4000V				
Mechanical						
Degree of Protection (Open Type) IEC 529		IP 40				
Mechanical Life Cycles (AC/DC)		> 10 x 10 ⁶ /30 x 10 ⁶				
Switching Frequency Operations		3600/HR				
Coil Voltages		See Overview/Product Selection				
Operating Time (ms)	Pickup	20 ms				
	Dropout	4 ms				
Maximum Operating Rate		4 Ops/s				
Vibration	Endurance	5 G				
	Operational	1.5 G				
Shock	Endurance	50 G				
	Operational	15 G				
Environmental						
Temperature	Operating	AC/DC		−40...+70 °C		
	Storage	AC/DC		−40...+100 °C		
Altitude		2000 m (6560 ft)				
Construction						
Insulating Material		Molded High Dielectric Material				
Enclosure		Transparent Dust Cover				
Contact Material		AgCdO				
Terminal Markings on Socket		In accordance with EN50 0005				
Sockets		700-HN153, -HN154				
Certifications		cURus Recognized (File No. E3125, Guide NLDX2/NLDX8), cULus Listed when used with Bulletin 700-HN sockets noted above (File No. E3125, Guide NLDX/NLDX7), CE Marked, CSA Certified, UR Certified (File No. 229473)				
Standards		UL508, CSA C22.2 No. 14, EN 61810-1, EN 60255-23				

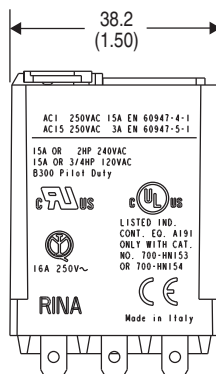
* Performance Data – See this catalog, Important- 3.

* NEMA Rating Chart is in publication 700-SG003*

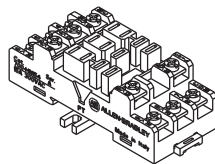
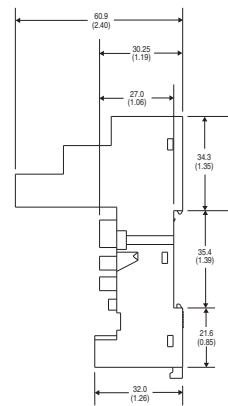
Technical Data



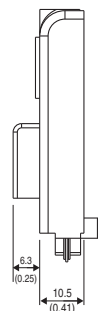
Approximate Dimensions are shown in millimeters (inches). Approximate Dimensions are not intended to be used for manufacturing purposes.



Bulletin 700-HB Relay



Strip Length: 9 mm (3/8 in.) – Torque: 0.8 N•m (7 lb•in)



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