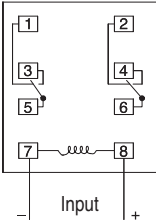
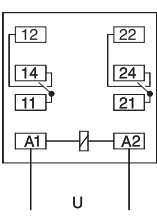
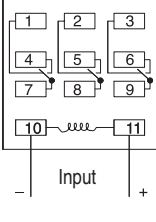
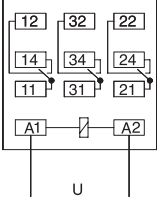
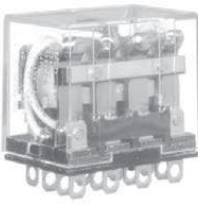
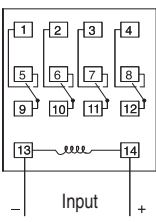
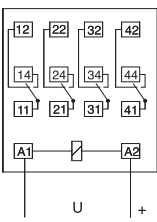
	Bulletin 700-HF — Square Base Relay • 10 A contact rating • DPDT, 3PDT, 4PDT • Plug-in quick connect solder terminals • Options: LED, push-to-test operator	Table of Contents Product Selection..... this page Accessories..... 9-30 Specifications 9-31 Approximate Dimensions..... 9-32 Standards Compliance and Certifications See Specification table in this section, page 9-31 .
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Product Selection
Square Base with Quick Connect/Solder Style Terminations

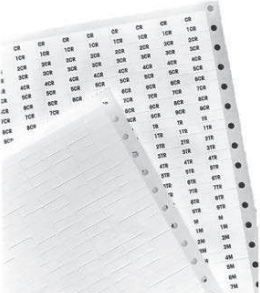
	Description	Contact Rating	Wiring Diagrams		Coil Voltage	Cat. No. *❖
			U.S./Canada	International		
	DPDT 2-pole 2 Form C AgCdO Contacts Socket	10 A	 700-HN116	 700-HN116	6V AC	700-HF32A06
					12V AC	700-HF32A12
					24V AC	700-HF32A24
					120V AC	700-HF32A1
					240V AC	700-HF32A2
					6V DC	700-HF32Z06
					12V DC	700-HF32Z12
					24V DC	700-HF32Z24
					48V DC	700-HF32Z48
					110V DC	700-HF32Z1
	3PDT 3-pole 3 Form C AgCdO Contacts Socket	10 A	 700-HN138	 700-HN138	6V AC	700-HF33A06
					12V AC	700-HF33A12
					24V AC	700-HF33A24
					120V AC	700-HF33A1
					240V AC	700-HF33A2
					6V DC	700-HF33Z06
					12V DC	700-HF33Z12
					24V DC	700-HF33Z24
					48V DC	700-HF33Z48
					110V DC	700-HF33Z1
	4PDT 4-pole 4 Form C AgCdO Contact Socket	10 A	 700-HN139	 700-HN139	6V AC	700-HF34A06
					12V AC	700-HF34A12
					24V AC	700-HF34A24
					120V AC	700-HF34A1
					240V AC	700-HF34A2
					6V DC	700-HF34Z06
					12V DC	700-HF34Z12
					24V DC	700-HF34Z24
					48V DC	700-HF34Z48
					110V DC	700-HF34Z1

* Pilot Light Option: Add suffix (-4) to the selected Bulletin 700-HF Relay Cat. No. except for the 240V AC units, add (-4L).

❖ Manual Operator and LED Option: Add suffix (-1-4) to the selected Bulletin 700-HF Relay Cat. No., except for the 240V AC units, add (-1-4L).

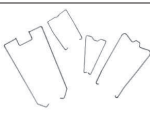
Bulletin 700-HF
General Purpose Relays
Accessories

Accessories

	Description	Pkg. Quantity	Cat. No.
	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

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

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

	Description	Pkg. Qty.	Cat. No.
 Cat. No 700-HN116	Screw Terminal Socket — Panel or DIN Rail Mounting 8-blade miniature socket for use with DPDT HF relays.	10	700-HN116
 Cat. No. 700-HN138	Screw Terminal Socket — Panel or DIN Rail Mounting 11-blade socket for use with 3PDT Bulletin 700-HF relays.	1	700-HN138
 Cat. No. 700-HN139	Screw Terminal Socket — Panel or DIN Rail Mounting, Guarded Terminal Construction 14-blade socket for use with 4PDT Bulletin 700-HF relays.	1	700-HN139
 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. Nos. 700-HN103, -HN104 and -HN128 Sockets with 700-HC Relays and Cat. Nos. 700-HN116 Sockets with Bulletin 700-HF DPDT Relays† Secures relay in socket. Order must be for 10 clips or multiples of 10.	10	700-HN114
	Retainer Clip for Cat. Nos. 700-HN138 and -HN139 Sockets with Bulletin 700-HF 3PDT and 4PDT Relays† Secures relay in socket. Order must be for 10 clips or multiples of 10.	10	700-HN140

† Bulletin 700-HF Square Base Relay, Socket, and Retainer Clip Reference

Relay Type	Cat. No. Socket	Cat. No. Retainer Clip
700-HF32	700-HN116	700-HN114
700-HF33	700-HN138	700-HN140
700-HF34	700-HN139	700-HN140

Specifications*

Cat. No. 700-HF...					
Electrical Ratings					
Pilot Duty Rating			C300		
Rated Thermal Current (I_{th})			10 A		
Rated Insulation Voltage (U _i)			250V IEC, 300 UL/CSA		
Contacts		Inductive	Make	Break	Hp
			►] [◄	◄] [►	
		120V AC	29 A	2.9 A	1/2
		240V AC	14 A	1.4 A	1/3
		General Purpose	10 A, 240V AC		
		Resistive	10 A, 30V DC		
Min. Low Energy Permissible Load			5V, 100 mA		
Permissible Coil Voltage Variation			85...110% of Nominal Voltage at 50 Hz 85...110% of Nominal Voltage at 60 Hz 80...110% of Nominal Voltage at DC		
Coil Consumption ±10%	AC Coils		50 Hz	60 Hz	
		Inrush	2.4 VA	2.1 VA	
		Sealed	1.6 VA	1.4 VA	
	DC Coils	0.9 W (Bul. No. 700-HF32) 1.4 W (Bul. No. 700-HF33) 1.5 W (Bul. No. 700-HF34)			
Max. Allowable Leakage			25% of VA		
			10% of W		
Design Specification/Test Requirements					
Dielectric Withstand Voltage	Pole-to-Pole		1500V AC		
	Contact to Pole		1500V AC		
	Contact to Frame		1500V AC		
Mechanical					
Degree of Protection			Open Type (Sockets)		
Mechanical Life Operations			30 x 10 ⁶		
Switching Frequency Operations			3600/hr		
Coil Voltages			See Product Selection		
Operating Time at Nominal Voltage at 20 °C	Pickup	15 ms			
	Dropout	15 ms			
Maximum Operating Rate			4 Ops/s		
Shock (Mechanical Durability)			100 G		
Shock (Malfunction Durability)			20 G		
Environmental					
Temperature	Operating	-30...+55 °C (-22....+131 °F)			
	Storage	-55...+85 °C (-67....+185 °F)			
Altitude			2000 m (6560 ft)		
Construction					
Insulating Material			Molded High-Dielectric Material		
Enclosure			Transparent Dust Cover		
Contact Material			Silver Cad. Ox.		
Terminal Markings on Socket			In accordance with EN50 0005		
Sockets			8-Blade Socket (DPDT) Cat. No. 700-HN116 11-Blade Socket (3PDT) Cat. No. 700-HN138 14-Blade Socket (4PDT) Cat. No. 700-HN139		
Certifications			CSA Certified (File No. 75088), UL Recognized (File No. E3125, Guide NLDX 2), CE Marked		
Standards			UL 508, CSA 22.2 No. 14, EN/IEC 60255-1		

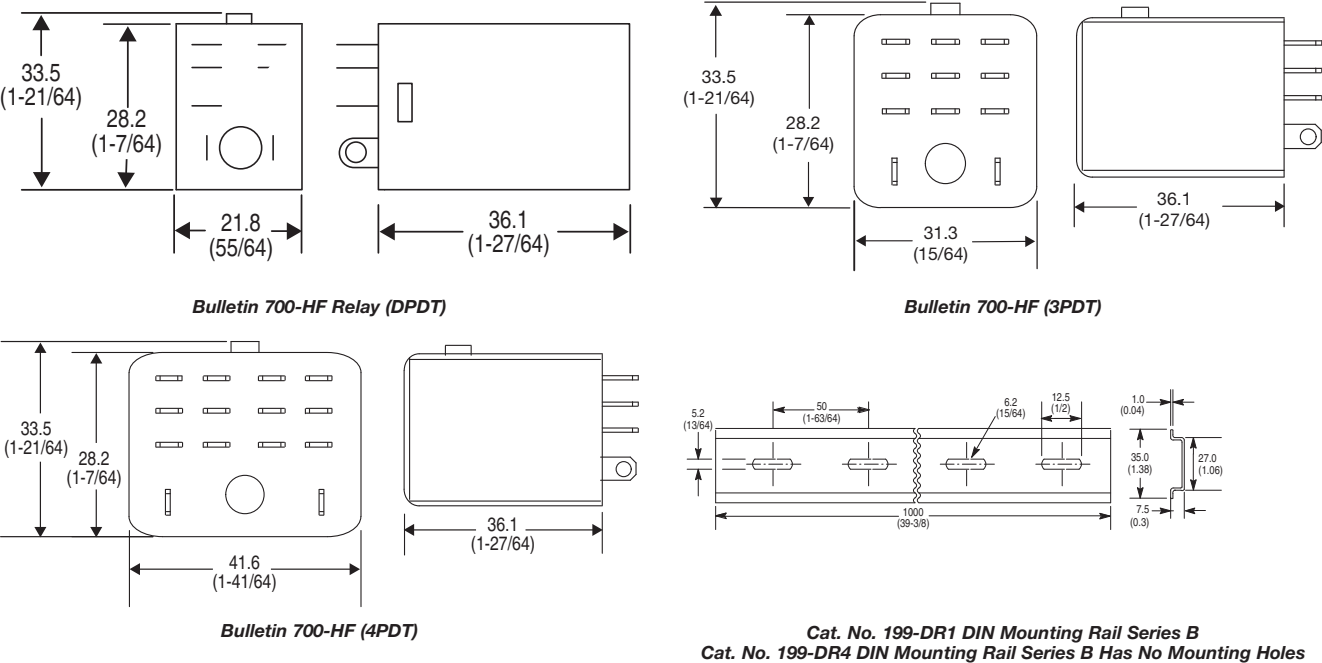
* Performance Data – See this catalog, Important- 3.

Bulletin 700-HF

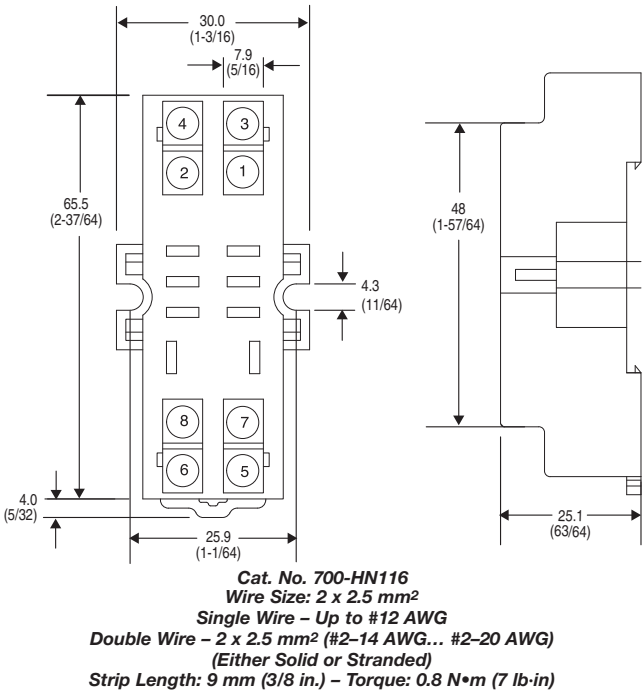
General Purpose Relays

Approximate Dimensions

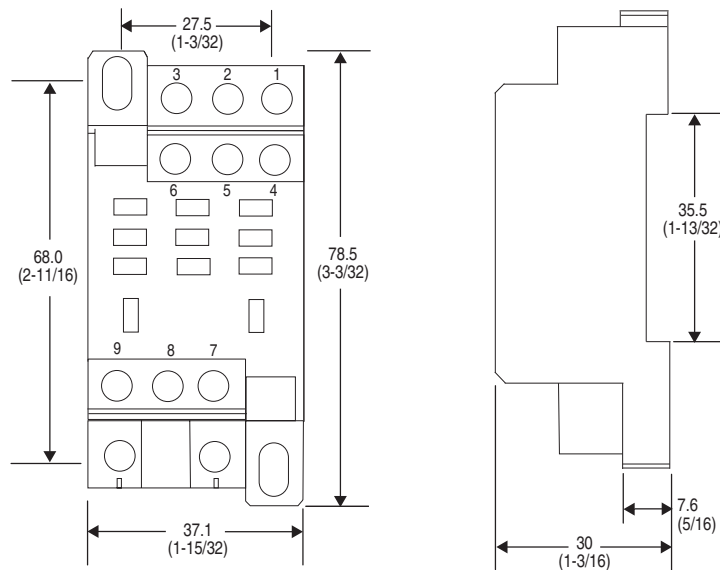
Approximate Dimensions
 Approximate Dimensions are shown in millimeters (inches). Approximate Dimensions are not intended to be used for manufacturing purposes.



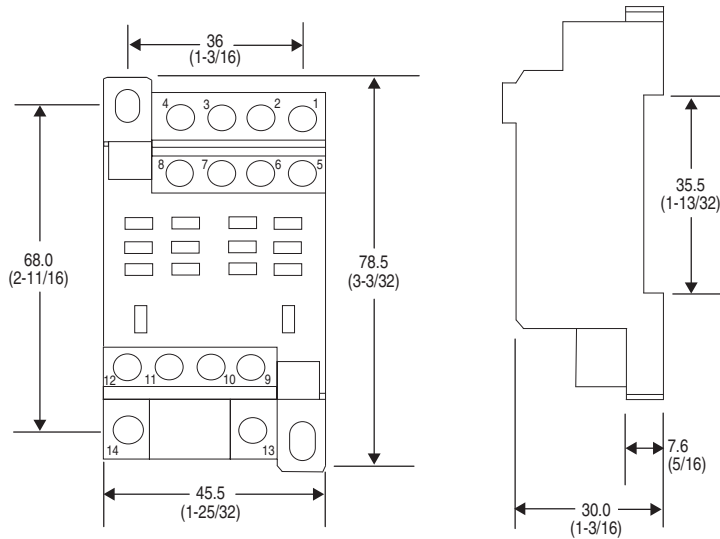
Cat. No.	A	B	C	D	Approx. Shipping Wt.
199-DR1	35 (1-3/8)	27 (1-1/16)	7.5 (19/64)	1.02 (1/64)	1.85 kg (4.07 lb) (10/pkg)
199-DR4	35 (1-3/8)	27 (1-1/16)	15 (19/32)	2.3 (3/32)	3.68 kg (8 lb) (5/pkg)



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



Cat. No. 700-HN138
Wire Size: 2 x 2.5 mm²
Single Wire – Up to #12 AWG
Double Wire – 2 x 2.5 mm² (#2–14 AWG... #2–20 AWG)
(Either Solid or Stranded)
Strip Length: 9 mm (3/8 in.) – Torque: 0.8 N•m (7 lb-in)



Cat. No. 700-HN139
Wire Size: 2 x 2.5 mm²
Single Wire – Up to #12 AWG
Double Wire – 2 x 2.5 mm² (#2–14 AWG... #2–20 AWG)
(Either Solid or Stranded)
Strip Length: 9 mm (3/8 in.) – Torque: 0.8 N•m (7 lb-in)