



## Accessories- 700-HK Relays

Photo	Description	Pkg. Qty.	Cat. No.
	<b>Screw Terminal Socket — Panel or DIN Rail Mounting</b> 5-blade miniature socket with 10 A rating for use with 1-pole, 700-HK relays. Accepts forked lug conductors. Socket includes a retainer clip.	10	700-HN121
	<b>Screw Terminal Socket — Panel or DIN Rail Mounting</b> 5-blade miniature socket with 16 A rating for use with 1-pole, 700-HK relays. Retainer clips are packaged separately with socket. Guarded terminal construction and compatible with optional plug-in module accessories.	10	700-HN221
	<b>Spring Clamp Terminal Socket — Panel or DIN Rail Mounting</b> 5-blade miniature socket for use with 1-pole, 700-HK relays.	10	700-HN223
	<b>Screw Terminal Socket — Panel or DIN Rail Mounting</b> 8-blade miniature socket with 5 A rating for use with 2-pole, 700-HK relays. Accepts forked lug conductors. This socket includes a retainer clip.	10	700-HN122
	<b>Screw Terminal Socket — Panel or DIN Rail Mounting</b> 8-blade miniature socket with 8 A rating for use with 2-pole, 700-HK relays. Retainer clips are packaged separately with socket. Guarded terminal construction and compatible with optional plug-in module accessories.	10	700-HN222
	<b>Spring Clamp Terminal Socket — Panel or DIN Rail Mounting</b> 8-blade miniature socket for use with 2-pole 700-HK relays.	10	700-HN224
	<b>Flange Mount Adapter</b> Used for panel-mounting bulletin 700-HK relays. Order must be for 10 adapters or multiples of 10.	10	700-HN226
	<b>35 mm Rail Mount Adapter</b> Mounts bulletin 700-HK relays to a 35 mm rail. Order must be for 10 adapters or multiples of 10.	10	700-HN227
	<b>Socket Retainer Clip and Ejection Lever</b> For use with 700-HN22, -HN222, -HN223, and -HN224 sockets. Orders must be for 10 clips or multiples of 10.	10	700-HN229

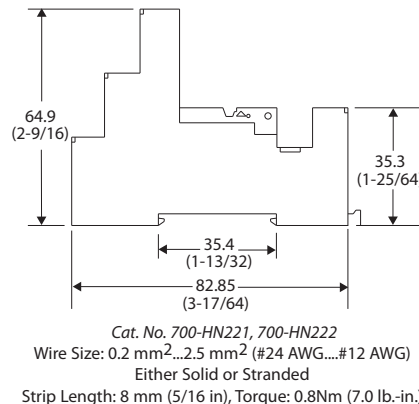
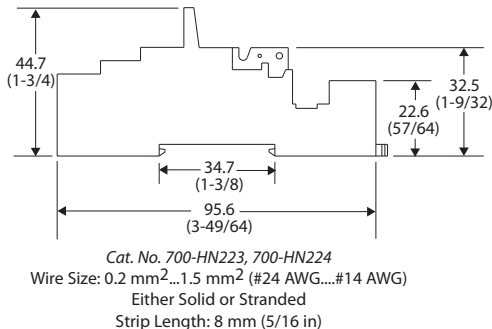
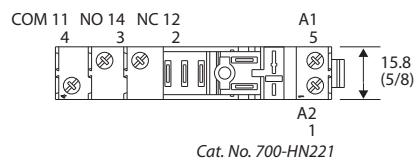
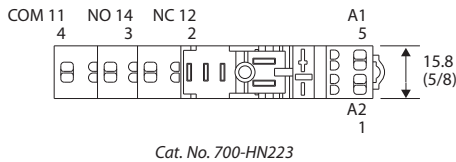
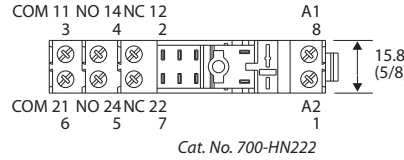
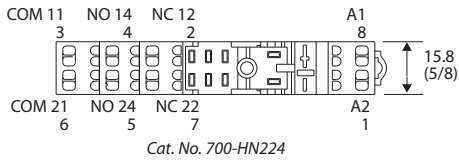
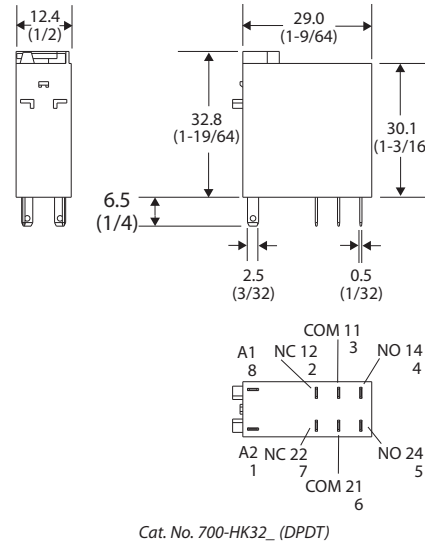
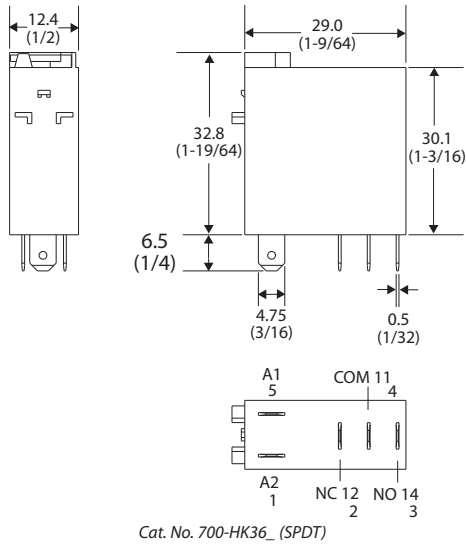
## Specifications- 700-HK Relays

Attribute		700-HK			
<b>Electrical Ratings</b>					
<b>Rated Thermal Current (<math>I_{th}</math>)</b>		1-Pole, 1 CO, SPDT — 16 A		2-Pole, 2 CO, DPDT — 8 A	
<b>Rated Insulation Voltage (<math>U_i</math>)</b>		250V IEC, 300V UL/CSA			
<b>Contacts</b>	<b>Inductive V AC</b>	120V AC	AC-15, 6.2 A B300 Pilot Duty, 3 A A300 (700-HKM_) 1/3 Hp (0.24 kW) 1-phase	120V AC	AC-15, 2.9 A B300 Pilot Duty, 3.0 A 1/4 Hp (0.18 kW), 1-phase
		240V AC	AC-15, 3.1 A B300 Pilot Duty, 1.5 A A300(700-HKM_) 3/4 Hp (0.55 kW), 1-phase	240V AC	AC-15, 1.4 A B300 Pilot Duty, 1.5 A 1/2 Hp (0.37 kW), 1-phase
		230V AC	0.55 kW, 1-phase	230V AC	0.37 kW, 1-phase
	<b>Inductive V DC</b>	24V DC	DC-13, 5.0 A	24V DC	DC-13, 3.0 A
		125V DC	DC-13, 0.2 A / R300 Pilot Duty, 0.22 A	125V DC	DC-13, 0.2 A / R300 Pilot Duty, 0.22 A
		250V DC	DC-13, 0.1 A / R300 Pilot Duty, 0.11 A	5 A, 250V AC	DC-13, 0.1 A / R300 Pilot Duty, 0.11 A
	<b>Resistive</b>	230V AC	AC-1, 16 A	230V AC	AC-1, 8 A
		277V AC	16 A, General Use	277V AC	8 A, General Use
<b>Make, Break, and Continuous</b>	30V DC	DC-1, 12 A / 10 A, Resistive	30V DC	DC-1, 6 A / 6 A, Resistive	
<b>Min. Permissible Contact Ratings</b>		300 mW (5V/60 mA or 60V/5 mA) for AgNi Contacts (700-HK3_) 50 mW (5V/10 mA or 25V/2 mA) for AgNi + Gold Contacts (700-HKX_) 500 mW (100V/5 mA or 5V/100 mA) for AgSnO <sub>2</sub> Contacts (700-HKM_)			
<b>Permissible Coil Voltage Variation</b>	<b>Pickup: holding Voltage: Must Dropout Voltage:</b>	80...110% of Nominal Voltage at 50/60 Hz, 73...110% of Nominal Voltage at DC 80% of Nominal V AC at 50/60 Hz, 40% of Nominal V DC 20% of Nominal V AC at 50/60 Hz, 10% Nominal V DC			
<b>Power Consumption</b>		1.2V A (V AC Coils), 0.5 W (V DC Coils)			
<b>Coil Voltages</b>		See Overview/Product Selection			
<b>Design Specification/Test Requirements</b>					
<b>Dielectric Withstand Voltage</b>	<b>Pole to Pole (VRMS) Contact to Coil (VRMS)</b>	2000V AC 4000V AC			
<b>Mechanical</b>					
<b>Degree of Protection</b>		IP 20 (guarded terminal sockets), RT II — Flux-proof (Relay)			
<b>Mechanical Life Operations</b>		10 x 10 <sup>6</sup>			
<b>Electrical Lifecycles</b>		230V AC, 16 A Resistive: 100 000 min. 277V AC, 16 A Resistive: 30 000 min. 30V DC, 10 A Resistive: 30 000 min. B300, R300, Hp (kW): 6000 min. A300 (700-HKM_): 100,000 min.	230V AC, 8 A Resistive: 100 000 min. 277V AC, 8 A Resistive: 30 000 min. 30V DC, 6 A Resistive: 30 000 min. B300, R300, Hp (kW): 6000 min.		
<b>Switching Frequency</b>		Mechanical: 18,000 cycles/hr. Electrical: 900 cycles/hr.			
<b>Operating Time at Nominal Voltage at 20 °C (ms)</b>	<b>Pickup</b>	15 ms			
	<b>Dropout</b>	5 ms			
<b>Vibration</b>	<b>Operational</b>	10...2000 Hz, 0.76 mm (0.03 in.) 2.5 G			
	<b>Non-Operational</b>	10...2000 Hz, 0.76 mm (0.03 in.) 5.0 G			
<b>Shock</b>	<b>Operational</b>	15 G			
	<b>Non-Operational</b>	50 G			
<b>Environmental</b>					
<b>Temperature</b>	<b>Operating Storage</b>	-40...+70 °C (-40...+158 °F) -40...+85 °C (-40...+185 °F)			
<b>Altitude</b>		2000 m (6560 ft)			
<b>Construction</b>					
<b>Insulating Material</b>		Molded High Dielectric Material			
<b>Enclosure</b>		Transparent Dust Cover			
<b>Contact Material</b>		700-HK3_: Silver nickel (AgNi); 700-HKX_: Silver Nickel + Gold Plating (AgNi + Au); 700-HKM_: Silver Tin Oxide (AgSnO <sub>2</sub> )			
<b>Terminal Markings on Socket</b>		In accordance with EN 50005			

Attribute		700-HK	
		1-Pole	2-Pole
Sockets	Screw Terminal	700-HN121 (10 A @ 70 °C) 700-HN221 (16 A @ 50 °C, 12 A @ 70 °C)	700-HN122 (2 x 5 A @ 70 °C) 700-HN222 (2 x 8 A @ 70 °C)
	Spring Clamp	700-HN223 (15 A @ 40 °C with 2 conductors per terminal) (10 A @ 70 °C with 1 conductor per terminal)	700-HN224 (2 x 8 A @ 70 °C)
<b>Approvals</b>			
Certifications		CSA Certified, File 75088, UL Recognized, File E3125 Guide NLDX2/NLCX8, cULus Listed with Allen-Bradley sockets (File No. 3125 Guide NLDX/NLDX7), CE Marked	
Standards		EN61810-1, CSA 22.2 No. 14, UL 508	

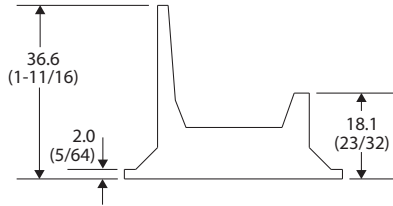
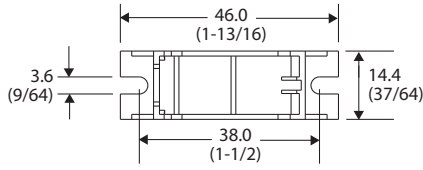
### Dimensions- 700-HK Relays

Approximate dimensions are shown in millimeters (inches). Dimensions are not intended for manufacturing purposes.

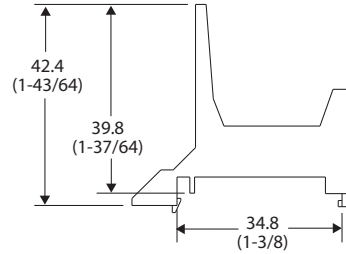
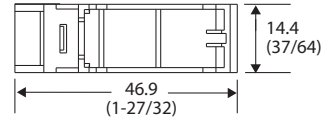


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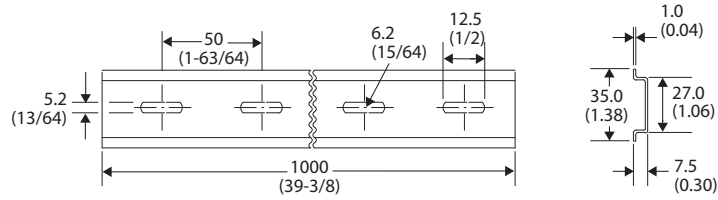
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Cat. No. 700-HN226

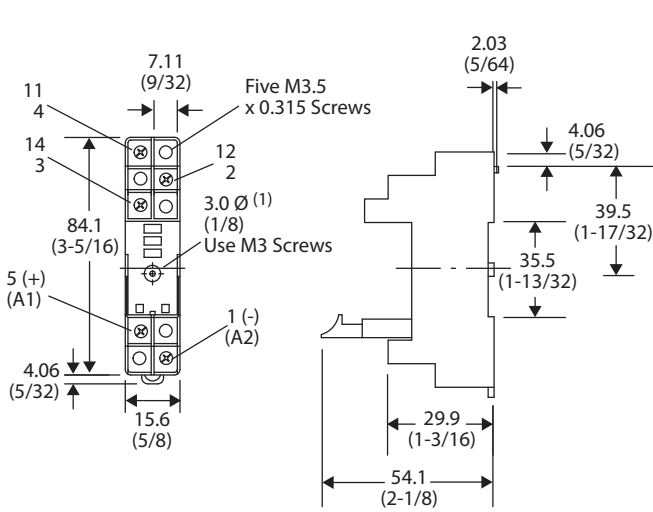


Cat. No. 700-HN227

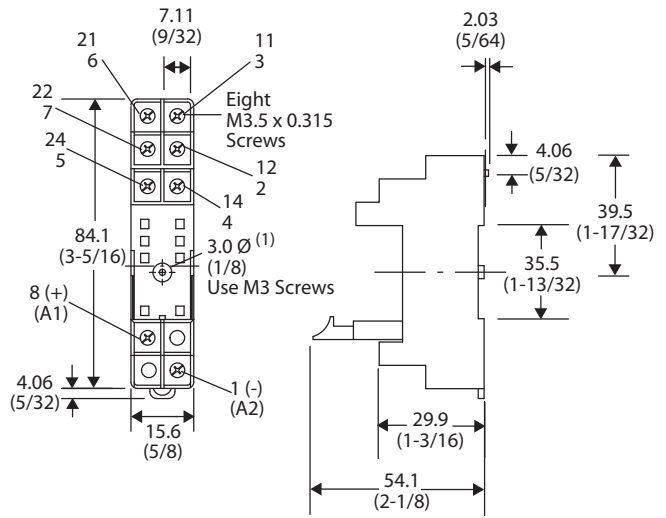


Cat. No. 199-DR4 DIN Mounting Rail Series B Has No Mounting Holes  
Cat. No. 199-DR1 DIN Mounting Rail Series B

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)



Cat. No. 700-HN121  
 Wire Size: 2 x 2.5 mm<sup>2</sup>  
 Single Wire – Up to #14 AWG  
 Double Wire – 2 x 2.5 mm<sup>2</sup> (14 AWG... 20 AWG) Qty. 2 wires  
 (Either Solid or Stranded)  
 Strip Length: 9 mm (3/8 in.) – Torque: 0.8 N·m (7 lb·in)



Cat. No. 700-HN122  
 Wire Size: 2 x 2.5 mm<sup>2</sup>  
 Single Wire – Up to #14 AWG  
 Double Wire – 2 x 2.5 mm<sup>2</sup> (14 AWG... 20 AWG) Qty. 2 wires  
 (Either Solid or Stranded)  
 Strip Length: 9 mm (3/8 in.) – Torque: 0.8 N·m (7 lb·in)