

Bulletin 700-HA

- 10 A Contact Rating
- DPDT, 3PDT
- Pin Style Terminals
- Standard ON/OFF Flag Indicator
- Clear Cover for Easy Visual Inspection
- Optional Push-to-test and Manual Override
- Optional LED
- Optional Socket Mounted Surge Suppressor Module
- Optional Multi-Function Timing Module
- Type HAB—Bifurcated Contacts
- Type HAX—Gold Bifurcated Contacts

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Description

The Bulletin 700-HA General Purpose Relays have pin-style terminals and are available in 2-pole (DPDT) or 3-pole (3PDT). They feature a standard ON/OFF flag indicator, and can be ordered with an optional push-to-test operator, a LED, and bifurcated or gold bifurcated contacts. Coils are available in a wide range of AC and DC voltages. Contacts are rated up to 10 A.

Conformity to Standards:

EN 60947-4-1 EN 60947-5-1 IEC 947 CSA 22.2

UL 508

NEMA/EE MAC compliant ICS-2 compliant

Approvals:

cURus Recognized, File E3125 Guide NLDX 2

cULus Listed, with Allen-Bradley socket CE Marked (per EU Low Voltage Directive 73/23 EEC 93/68 EEC)

ABS (American Bureau of Shipping), File 00-GE195140-PDA

RINA listed

Third Party Approval:

IMQ listed

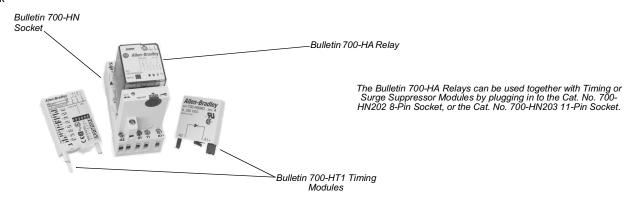
Your order must include:

- Cat. No. of the plug-in relay plus suffixes of selection options.
- Cat. No. of socket required.
- If required, Cat. No. of any accessories.

Bulletin 700-HA Tube Base Relay with PIN Terminals (Single Contact) — Mechanical ON/OFF Indicator included ●

	Description	Contact	Wiring D	Wiring Diagrams Coil Cat. No.				tory- ed Item			
		Rating	U.S./Canada	International	Voltage	000	0	0			
					6V AC	700-HA32A06					
				•	12V AC	700-HA32A12	~				
					24V AC	700-HA32A24 6	~				
					120V AC	700-HA32A1 6	~	V			
	DPDT		(4) (5)	(12) (22)	240V AC	700-HA32A2 6	~				
	2-Pole		(3)-1-4-6)	(14)————————————————————————————————————	277V AC	700-HA32A27 	~				
	2 Form C	10 A			6V DC	700-HA32Z06					
	Single AgNi	B300	(2) we (7)	(A1) (A2)	12V DC	700-HA32Z12 6	~				
	Contact		1 8	(11) (21)	24V DC	700-HA32Z24 6	~				
			+ Input -	700-HN125 700-HN100 700-HN202	36V DC	700-HA32Z36					
					48V DC	700-HA32Z48	V				
					110V DC	700-HA32Z1	V				
					125V DC	700-HA32Z01	~				
	Sockets		700-HN125		140V DC	700-HA32Z3					
149 11 1491								6V AC	700-HA33A06		
A D The					12V AC	700-HA33A12					
					24V AC	700-HA33A24 9	~				
				(5) 6 (7) (22) (24) (12) (32) (33) (14) (34) (34)	120V AC	700-HA33A1 	~	~			
	3PDT 3-Pole				240V AC	700-HA33A2	V				
	3 Form C	10 A	$\begin{pmatrix} 4 \\ 3 \end{pmatrix} \begin{pmatrix} 4 \\ -9 \end{pmatrix}$		6V DC	700-HA33Z06					
	Single AgNi Contact	B300	(2) (10)	(A) (A2)	12V DC	700-HA33Z12	~				
	Contact		(1)(1)	11 31	24V DC	700-HA33Z24 9	~				
			+ Input –	+ U U _	48V DC	700-HA33Z48					
					110V DC	700-HA33Z1					
					125V DC	700-HA33Z01	~				
	Sockets		700-HN126	700-HN101 700-HN203	140V DC	700-HA33Z3					

- For Time Module and Surge Suppressor Module, see page 47.
- 2 LED Option: Add suffix (-4) to the selected Bulletin 700-HA 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-HA 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-HA relay.
- 9 Bulk Package Option: Relay can be purchased at discounted prices in bulk quantities of 10. Add suffix (-99) to the selected relay catalog number.
- 6 LED not available.
- Single pack
- 8 Bulk pack



Bulletin 700-HAB Tube Base Relay with PIN Terminals (Bifurcated Contacts) — Mechanical ON/OFF Indicator included ●

			Wiring D	iagrams			Factory-
	Description	Contact Rating	U.S./Canada	International	Coil Voltage	Cat. No. ⊘⊚⊙	stocked Item
					6V AC	700-HAB2A06	
					12V AC	700-HAB2A12	
					24V AC	700-HAB2A24	
				_	120V AC	700-HAB2A1	~
	DPDT		(4) (5)	(12) (22)	240V AC	700-HAB2A2	
	2-Pole		(3)	(14) - (24)	277V AC	700-HAB2A27 6	
	2 Form C Bifurcated AgNi	4 A			6V DC	700-HAB2Z06	
1.3.	Contacts		(2) 1	(A1) (A2)	12V DC	700-HAB2Z12	
			1 8	(11) (21)	24V DC 36V DC	700-HAB2Z24 700-HAB2Z36	
			+ Input -	+ U -	48V DC	700-HAB2Z36 700-HAB2Z48	
					110V DC	700-HAB2Z48	
					125V DC	700-HAB2Z01	
	Sockets		700-HN125	700-HN100 700-HN202	140V DC	700-HAB2Z3	
					6V AC	700-HAB3A06	
147 1111111					12V AC	700-HAB3A12	
d. Dilla					24V AC	700-HAB3A24	
	3PDT			(21)(24)	120V AC	700-HAB3A1	~
	3-Pole		(4) (8)	(22) (24) (32)	240V AC	700-HAB3A2	
	3 Form C	4 A	$\left(\begin{array}{c} \\ \\ \\ \end{array}\right)$		6V DC	700-HAB3Z06	
	Bifurcated AgNi Contacts		(2) (10)	(A1) (A2)	12V DC	700-HAB3Z12	
	Contacto			(11) (31)	24V DC	700-HAB3Z24	~
			+ Input -	+ U _	48V DC	700-HAB3Z48	
					110V DC	700-HAB3Z1	
					125V DC	700-HAB3Z01	
	Sockets		700-HN126	700-HN101 700-HN203	140V DC	700-HAB3Z3	

- For Time Module and Surge Suppressor Module, see page 47.
- 2 LED Option: Add suffix (-4) to the selected Bulletin 700-HAB Relay Cat. No., except for the 240V AC Units, add (-4L).
- Push-to-test, Manual Override & Pilot Light Option: Add suffix (-3 -4) to the selected Bulletin 700-HAB 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-HA relay.
- Single Pack
- 6 LED not available.

Bulletin 700-HAX Tube Base Relay with PIN Terminals (Bifurcated Contacts with Gold Overlay) —

	Description	Contact Rating	Wiring D	iagrams	Coil Voltage	Cat. No.	Factory- stocked Item
		·	U.S./Canada	International			6
					6V AC	700-HAX2A06	
					12V AC	700-HAX2A12	
					24V AC	700-HAX2A24	
	DPDT				120V AC	700-HAX2A1	
	2-Pole		(4) (5)	(12) (22)	240V AC	700-HAX2A2	
	2 Form C		(3)-2 4-6)	(14) - 24	277V AC	700-HAX2A27 	
	Bifurcated AgNi	4 A			6V DC	700-HAX2Z06	
	Contacts with Gold Overlay		(2) (1)	(A1) (A2)	12V DC	700-HAX2Z12	
	Sockets		1 8	(1) (21) + U	24V DC	700-HAX2Z24	
			+ Input -		36V DC	700-HAX2Z36	
					48V DC 110V DC	700-HAX2Z48 700-HAX2Z1	
					125V DC	700-HAX2Z1	
	Sockets		700-HN125	700-HN100 700-HN202	140V DC	700-HAX2Z01	
A THE STATE OF THE	COCKCIS		700-111125	700-1111202	6V AC	700-HAX3A06	
The manual					12V AC	700-HAX3A12	
					24V AC	700-HAX3A24	
	3PDT		(6)	(21)(21)	120V AC	700-HAX3A1	✓
	3-Pole 3 Form C		(4) (8)	(22) (24) (32)	240V AC	700-HAX3A2	
	Bifurcated AqNi	4 A	$\left(\begin{array}{c} 3 \\ \end{array}\right)$	$\left(\begin{array}{c} 14 \\ 14 \end{array}\right)$	6V DC	700-HAX3Z06	
	Contacts with		(2) (10)	(A1) (A2)	12V DC	700-HAX3Z12	
	Gold Overlay			(11) (31)	24V DC	700-HAX3Z24	· ·
			+ Input -	+	48V DC	700-HAX3Z48	
					110V DC	700-HAX3Z1	
					125V DC	700-HAX3Z01	
	Sockets		700-HN126	700-HN101 700-HN203	140V DC	700-HAX3Z3	

• For Time Module and Surge Suppressor Module, see page 47.

Mechanical ON/OFF Indicator Included

Output

Description:

- ❷ LED Option: Add suffix (-4) to the selected Bulletin 700-HAX Relay Cat. No., except for the 240V AC Units, add (-4L).
- 9 Push-to-test and LED Option: Add suffix (-3-4) to the selected Bulletin 700-HAX 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-HA relay.
- **⑤** LED not available.
- 6 Single pack

Accessories

	Description	Pkg. Qty.	Cat. No.	Factory- stocked Item
Cat. No. 700-HN100	Screw Terminal Tube Base Sockets – Panel or DIN Rail Mounting. Guarded Terminal Construction 8-pin for use with DPDT Bulletin 700-HA relays, -HX digital timing relays, -HT (ON-Delay) and -HRM, -HRC and -HV (Repeat Cycle) timing relays. Order must be for 10 sockets or multiples of 10.	10	700-HN100	V
Cat. No. 700-HN125	Screw Terminal Tube Base Sockets – Panel or DIN Rail Mounting Open Style Construction 8-pin for use with DPDT Bulletin 700-HA relays, -HT (ON-Delay) and -HRM, -HRC and -HV (Repeat Cycle) timing relays. Order must be for 10 sockets or multiples of 10. No retainer clip required.	10	700-HN125	V
Cat. No. 700-HN101	Screw Terminal Tube Base Sockets – Panel or DIN Rail Mounting. Guarded Terminal Construction 11-pin for use with 3PDT Bulletin 700-HA relays, -HR and -HT (OFF-Delay) timing relays. Order must be for 10 sockets or multiples of 10.	10	700-HN101	V
Cat. No. 700-HN126	Screw Terminal Tube Base Sockets – Panel or DIN Rail Mounting. Guarded Terminal Construction 11-pin for use with 3PDT Bulletin 700-HA relays, -HR and -HT (OFF-Delay) timing relays. Order must be for 10 sockets or multiples of 10.	10	700-HN126	V
34 32 24 22 14 12 3 3 3 2 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8-Pin Socket – Can Be Used With or Without Timing Attachment or Surge Suppressor Screw Terminal Tube Base Sockets – panel or DIN Rail mounting. Guarded terminal construction. Used with DPDT Bulletin 700-HA relays. Order must be for 10 sockets or multiples of 10.	10	700-HN202	V
Cat. No. 700-HN203	11-Pin Socket – Can Be Used With or Without Timing Attachment or Surge Suppressor Screw Terminal Tube Base Sockets – panel or DIN Rail mounting. Guarded terminal construction. Used with 3PDT Bulletin 700-HA relays. Order must be for 10 sockets or multiples of 10.	10	700-HN203	V
Cat. No. 199-DR1	DIN Rail Mounting Pack Standard 35 x 7.5 mm DIN Rail, 1 meter long, 10 rails per package. Order must be for 10 rails or multiples of 10.	10	199-DR1	V

	Description	Pkg. Qty.	Cat. No.	Factory- stocked Item
Allen-Bradley	MOV Suppressor Module Voltage Range: 24V AC 2430V DC Order must be for 20 modules or multiples of 20.	20	700-HSV1	V
24 VAC 2434 VDC uses a risk V	MOV Suppressor Module Voltage Range: 220240 V AC 220300 V DC Order must be for 20 modules or multiples of 20.	20	700-HSV2	V
Cat. No. 700-HSV1	MOV Suppressor Module Voltage Range: 110120V AC	20	700-HSV3	~
Allen-Bradley CAT 700-HSMD SER A 6250 VDC MOSE RITES A1+ Cat. No. 700-HSMD	Diode Surge Suppressor Voltage Range: 6250V DC Order must be for 20 modules or multiples of 20.	20	700-HSMD	V
Allen-Bradley CAT TOO-HT B WITH SERVICE STATES AND SERVICE STATES A	Multi-Function Multi-Range Time Module ① Voltage range 24240V AC 50/60 Hz and 24250V DC, with a voltage variation of 85110%. Repeat accuracy of <0.5%. Reset time 150 ms. Refer to page 50 for Specifications. Eight (8) Timing Modes Eight (8) Timing Ranges: 1. 1 s 2. 10 s 3. 1 min. 4. 10 min. 5. 1 hour 6. 10 hours 7. 1 day (24 hours) 8. 10 days (240 hours) LED Indicator: 1. Steady Green (G) for power on, flashing during timing.	1	700-HT1	V
Allen-Bradley SET TOO-HIT2 SET FUNCTION TIME PUNCTION PUN	Multi-Function Multi-Range Time Module ① Voltage range 1230V DC, with a voltage variation of 90110%. Repeat accuracy of <0.5%. Reset time 150 ms. Refer to page 50 for Specifications. Eight (8) Timing Modes (See page 51 for further details.) Eight (8) Timing Ranges: 1. 1 s 2. 10 s 3. 1 min. 4. 10 min. 5. 1 hour 6. 10 hours 7. 1 day (24 hours) 8. 10 days (240 hours) LED Indicator: 1. Steady Green (G) for power on, flashing during timing	1	700-HT2	

[•] Suppressors and Time Modules easily plug into sockets (Cat. Nos. 700-HN202 and 700-HN203). For use with Bulletin 700-HA relays.

ATTENTION: Cat. No. 700-HT1 Series A is wired with switch "S" connected to "A2", but 700-HT1 Series B is wired with switch "S" connected to "A1".

The Time Modules must be wired correctly. Check the front of the Time Modules for the correct wiring diagrams.

	Description	Pkg. Qty.	Cat. No.	Factory- stocked Item
Sample Retainer Clips	Retainer Clip for Cat. Nos. 700-HN100, -HN101, -HN200, -HN201, -HN202, and -HN203 Sockets with Bulletin 700-HA Relays	10	700-HN157	v
Snap-in markers	Relay Identification Snap-in Markers Snap-in markers fit on top of Bulletin 700-HA relay covers. The following are blank cards. Squares slip into molded slot on top of Bulletin 700-HA or 700-HB relay cover.	100	1492-SM5X12 1492-SM6X9 1492-SM6X12 1492-SM8X9 1492-SM8X12 1492-MP-Blank	•
	Pre-printed identification tags – contains 10 sheets of pre-printed and blank tags. Each sheet contains 13 sets of the markings CR9CR, TR9TR, M9M, 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	

- See Bulletin 700-HA Relay, Socket, and Retainer Clip Reference Chart
- Refer to terminal block marking systems within the Industrial Control Catalog, publication A114
- For pre-printed marker cards, turn to the following 1492 sections: 1492-SM5X12_, 1492-SM6X9_,1492-SM8X9_,1492-SM8X12_,1492-MP_

Relay Type	Socket	Retainer Clip
700-HA32	700-HN100	700-HN157
700-HAS2 700-HAB2	700-HN125	Not Required 4
700-HAX2	700-HN202	700-HN157
700-1 IAX2	700-HN200	700-HN157
700-HA33	700-HN201	700-HN157
700-HAB3	700-HN101	700-HN157
700-HAX3	700-HN126	Not Required 4
700-11AX3	700-HN203	700-HN157

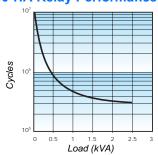
• Design of these sockets holds the relays securely and does not require retainer clips.

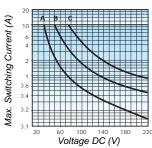
		Cat. No. 700-HA				
	Electrical Ratings					
		NEMA B300				
	HA = 10 A - 120V, 240V					
	H	,				
i)		250V IEC - 300V UL/CSA				
Inductive	Make	Break	Нр			
	▶1[◄	4][►	·			
120V AC			0.33			
240V AC	15 A	1.5 A	1			
DC		30V DC, 10 A				
		HA = 10V, 50 mA				
e Load	HA	AB= 6V, 30 mA HAX = 6V, 1 m/	A			
riation		_				
	7 7					
DC Coils						
Des		ements				
_	Electrical					
;		30001/				
	Mechanical	·				
		ID 40				
		IP 40				
(AC/DC)		> 20 x 10 ⁶ / 50 x 10 ⁶				
itions		3600/HR				
		See Product Selection				
Max. Pickup		10 ms				
Max. Dropout		10 ms				
		4 Ops/s				
Endurance		5 G				
Operational						
Endurance						
Operational	<u> </u>	9 G				
		,-	7000			
		AC/DC -40+70°C				
Storage						
	1	2000 m (6560 ft)				
		Andread High Diglastris Material				
	700 114	<u> </u>				
	700-HAX: 4 A—Bifurcated/Gold Plating AgNi In accordance with EN50 0005					
2 †						
et						
<u>et</u>	8-Pin Socket — 700-HN100, 11-Pin Socket — 700-HN101	-HN125, -HN202				
	120V AC 240V AC DC le Load ariation AC Coils Inrush Sealed DC Coils Descriptions Max. Pickup Max. Dropout Endurance Operational	Inductive Make	NEMA B300			

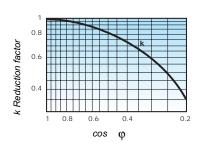
Performance Data – See page Important-2, Industrial Controls Catalog.
 NEMA Rating Chart is on page 29.

General Purpose Relays Specifications, Continued •

700-HA Relay Performance Graphs







Contact life vs. AC1 load at 1,800 cycles/h

Breaking capacity for DC1 load at 1800 cycles/h

A= load applied to 1 contact

B= load applied to 2 contacts in series

C= load applied to three contacts in series

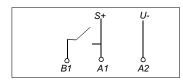
Load reduction factor vs. $\cos \phi$

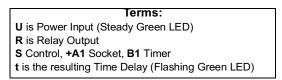
		C= load applied to three contacts in series			
		Time Module Cat. No. 700-HT1	Time Module Cat. No. 700-HT2		
		Electrical Ratings			
Operating Voltag	e Range	24240V AC at 50/60 Hz 24250V DC	1230V DC		
Power Consumpt	tion	24V AC/DC 70 mW 240V AC/DC 700 mW	12V DC 40 mW 30V DC 100 mW		
Maximum Output	Current	80 mA (2 W at 24V DC)	120 mA (2 W at 24V DC)		
Maximum Output	Voltage	265V AC, 275V DC	33V DC		
Maximum Output	Power	7.5 VA (30 mA at 240V AC)	4 W		
		Mechanical			
Degree of Protec Terminal	tion of Input (B1)	IP 20 (Guai	rded Terminal)		
Input Terminal W	ire Range	2 x 1.5 mm ² (2 # 10	6 AWG1 # 20 AWG)		
Input Terminal To	orque Range	0.450.8 N	Im (47 lb-in.)		
LED Indicator		Steady when Power On and	I Flashing during Timing Period		
Repeat Accuracy	2	<0.5%	% or 5 ms		
Timing Change Voltage Effect		≤0.001%/V	≤0.001%/V		
Tilling Change	Temp. Effect	≤0.01%/°C	≤0.01%/°C		
Reset Time		Power Reset: 150 ms Signal Reset: 50 ms AC, 30 ms DC	Power Reset: 150 ms Signal Reset: 10 ms DC		
Selectable Timin	g Ranges	3 DIP Switches, 8 Ranges (set from 10100% of range): 1 s, 10 s, 1 min., 10 min., 1 hr., 10 hr., 24 hr., 240 hr.			
Selectable Timin		Repeat Cycle – Signal OFF–De Single Shot – S Single Shot – S Signal ON–Dela	ay ower On Starting with OFF-Delay Starting with ON-Delay lay ignal is a Pulse ignal Off ay		
Thumbwheel Sca	ale Accuracy	≤5% of 7	Time Range		
		Environmental			
Temperature	Operating		(-13+131°F)		
A Ititudo	Storage		(-67+185°F)		
Altitude			n (6560 ft)		
Englooure		Crow Pla	otio Housing		
Enclosure	acket Only	•	stic Housing		
Mounting with So Sockets	оскет Опіу	8- or 11-Pin Socket with Module Plug 700-HN202 (8-Pin with Plug) 700-HN203 (11-Pin with Plug)			
Certifications		,	listed, CSA		

[•] Performance Data - See page Important-2, publication A113.

² At constant voltage and temperature.

Timing Charts, Cat. Nos. 700-HT1 and 700-HT2 Multi-Function Time Module (t = Time Range 0.10 s...240 h) Cat. Nos. 700-HT1 and -HT2 Timing Modes, Time Description, Timing Charts, and DIP Switch Selections





1. Power On-Delay

When the input voltage U is applied, the timing delay t begins. The relay contacts R change state after the time delay is complete. The contacts will return to their shelf state when the power U is removed. The terminal B1 is not used in this mode.



2. Single Shot — Power On

When the input voltage U is applied, the relay contacts R change state immediately and the timing cycle begins. When the time delay t is complete, the contacts return to shelf state. When the input voltage U is removed, the contacts return to their shelf state. The terminal B1 is not used in this mode.



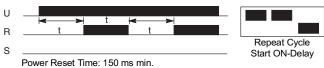
3. Repeat Cycle — Starting with Relay Energized

When the input voltage U is applied, the relay contacts R change state immediately and time delay t begins. When the time delay t is complete, the contacts return to their shelf state for time delay t. This cycle will repeat until the input voltage U is removed. The terminal B1 is not used in this mode.



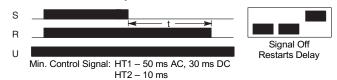
4. Repeat Cycle — Starting with On-Delay

When the input voltage U is applied, the time delay t begins. When the time delay t is complete, the relay contacts R change state for the time delay t. This cycle will repeat until the input voltage U is removed. The terminal B1 is not used in this mode.



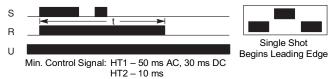
5. Signal Off-Delay

The input voltage U must be applied continuously. When the control S (wired at B1) is energized, the relay contacts R change state. When the control S is de-energized, the delay t begins. When delay t is complete, the contacts R return to their shelf state. If signal S is energized before the time delay t is complete, then the Time Module is reset, the delay begins again, and the relay contacts remain in their energized state. If the input voltage U is removed, the relay contacts R return to their shelf state.



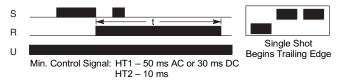
6. Single Shot — Signal Is a Pulse

The input U must be applied continuously. When the Control S (wired to B1 terminal) is energized, the relay contacts R change state and the time delay t begins. When the time delay t is completed, the contacts return to their shelf state. If signal S is de-energized before time t is completed, contacts R still stay in their changed state. The input signal S has control again when delay is completed or power reset. If the input voltage U is removed, the relay contacts R return to their shelf state.



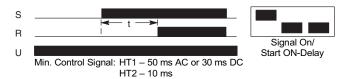
7. Single Shot — Signal Off

The input voltage U must be applied continuously. When the control S (wired at B1) is energized and then de-energized, the relay contacts R change state for the time delay t. If the control S is pulsed during the time period t, the relay contacts R will not be affected. If the input power is removed, the relay contacts R return to their shelf state.



8. On Delay — Pulse Controlled

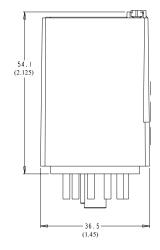
The input voltage U must be applied continuously. When the control S (wired at B1) is energized, the time delay t begins. When the time delay t is complete, the relay contacts R change state and remain energized until the control S is de-energized. If the input power U is removed the relay contacts R return to their shelf state.



General Purpose Relays

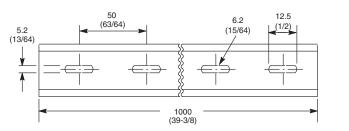
Approximate Dimensions

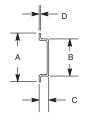
Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.





Bulletin 700-HA Relay

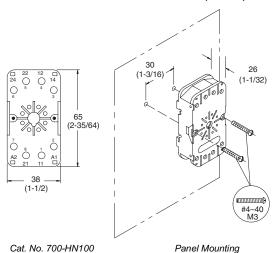




Cat. No. 199-DR1 DIN Mounting Rail Series B Cat. No. 199-DR4 DIN Mounting Rail Series B Has No Mounting Holes

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

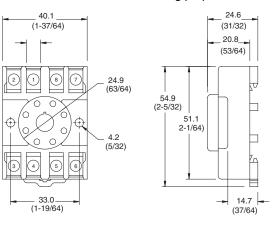
Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.



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)

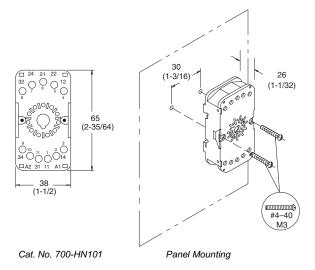
(Either Solid or Stranded) Strip Length: 9 mm (3/8") – Torque: 0.8 Nm (7 lb.-in.)



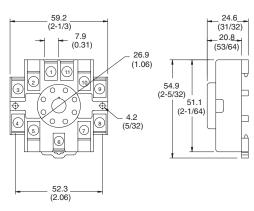
Cat. No. 700-HN125 0

Wire Size: 2 x 2.5 mm² Single Wire - Up to 12 AWG

Double Wire – 2 x 2.5 mm² (#2–#4 AWG...#2–20 AWG) (Either Solid or Stranded) Strip Length: 9 mm (3/8") – Torque: 0.8 Nm (7 lb.-in.)



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) Cither Solid or Stranded)
Strip Length: 9 mm (3/8 in") – Torque: 0.8 Nm (7 lb.-in.)



Cat. No. 700-HN126 0

Wire Size: 2 x 2.5 mm²

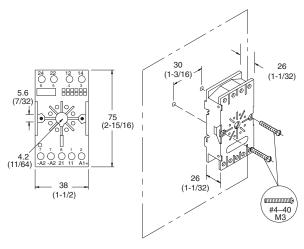
Single Wire – Up to #12 AWG Double Wire – 2 x 2.5 mm² (#2–#14 AWG...#2–20 AWG)

Ceither Solid or Stranded)
Strip Length: 9 mm (3/8 in.") – Torque: 0.8 Nm (7 lb.-in.)

• Cat. No. 199-FSM Surge Suppressors fit on the coil terminals. See page 195.

Approximate Dimensions, Continued

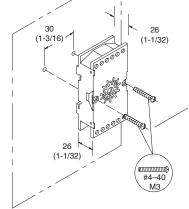
Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.



Cat. No. 700-HN202

Panel Mounting

888888 5.6 75 (2-15/16) 38 (1-1/2)



Cat. No. 700-HN203

Panel Mounting

Wire Size: 2 x 2.5 mm² Single Wire – Up to #12 AWG

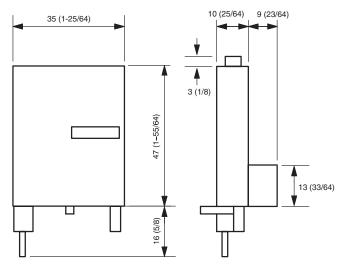
Double Wire - 2 x 2.5 mm² (#2-14 AWG... #2-20 AWG)

(Either Solid or Stranded) Strip Length: 9 mm (3/8 in.) – Torque: 0.8 Nm (7 lb.-in.)

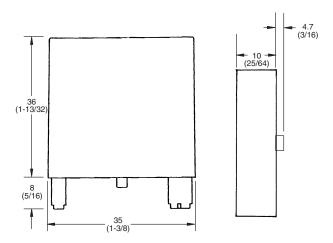
Wire Size: 2 x 2.5 mm² Single Wire – Up to #12 AWG

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 Nm (7 lb.-in.)



Cat. Nos. 700-HT1 and 700-HT2



Cat. Nos. 700-HSV1, 700-HSV2, 700-HSV3, and 700-HSMD

Wire Size: 2 x 1.5 mm² (#2 – 16 AWG...#1–20 AWG) (Either Solid or Stranded) Strip Length: 9 mm (3/8 in.) – Torque: 0.8 Nm (7 lb.-in.)