

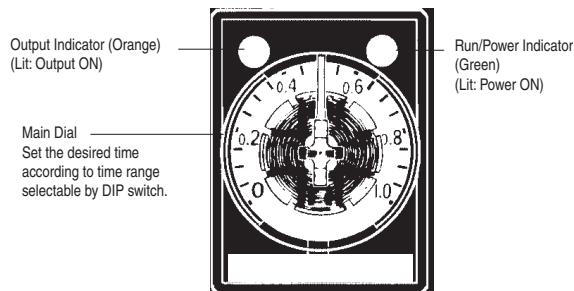
	Bulletin 700-HNC — Miniature Timing Relay • Miniature timer, perfect for converting Bul. 700-HC "Ice Cube" relays into timing relays • 4 operating modes • 4PDT contact output • Timing range from 0.1 s...10 hr • Socket mounted	Table of Contents Product Selection this page Accessories this page Specifications..... 9-74 Approximate Dimensions..... 9-77 Standards Compliance and Certifications See Specification table in this section, page 9-75
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Product Selection

Bulletin 700-HNC Miniature Timer with Multiple Time Ranges

Model	Timing Mode	Contact Output	Input Voltages	Timing Range	Socket Type	Cat. No.
 Cat. No. 700-HNC	On-Delay One Shot Repeat cycle, OFF-start Repeat cycle, ON-start	4PDT	12V DC	0.1 s...10 min	700-HN103 700-HN128	700-HNC44AZ12
				.1 min...10 hr		700-HNC44BZ12
			24V DC	0.1 s...10 min		700-HNC44AZ24
				0.1 min...10 hr		700-HNC44BZ24
			48V DC	0.1 s...10 min		700-HNC44AZ48
				0.1 min...10 hr		700-HNC44BZ48
			100...110V DC	0.1 s...10 min		700-HNC44AZ11
				0.1 min...10 hr		700-HNC44BZ11
			125V DC	0.1 s...10 min		700-HNC44AZ25
				0.1 min...10 hr		700-HNC44BZ25
			24V AC	0.1 s...10 min		700-HNC44AA24
				0.1 min...10 hr		700-HNC44BA24
			100...120V AC	0.1 s...10 min		700-HNC44AA12
				0.1 min...10 hr		700-HNC44BA12
			200...230V AC	0.1 s...10 min		700-HNC44AA23
				0.1 min...10 hr		700-HNC44BA23

General Timer Functions



Accessories

	Description	Pkg. Quantity	Cat. No.
 Cat. No. 700-HN103	Screw Terminal Socket — Panel or DIN Rail Mounting. Guarded Terminal Construction 14-Blade miniature socket for use with Bulletin 700-HNC timers.	10	700-HN103
 Cat. No. 700-HN128	Screw Terminal Base Sockets — Panel or DIN Rail Mounting. Open Style Construction 14-blade miniature socket for use with Bulletin 700-HNC timers.	10	700-HN128

Bulletin 700-HNC
Plug-in Timing Relays
 Accessories/ Specifications

	Description	Pkg. Quantity	Cat. No.
 Cat. No. 700-HN104	Screw Terminal Socket – Panel or DIN Rail Mounting. Guarded Terminal Construction 14-blade miniature socket for use with Bulletin 700-HNC timers. This socket has coil and contact separation.	10	700-HN104
 Cat. No. 700-HN263	Retainer Clip for Cat. Nos. 700-HN103, -HN104 and -HN128 Sockets with Bulletin 700-HNC Timers. Secures Timer in Socket.	10	700-HN263

Specifications

Item		Ratings	
		700-HNC	
Pilot Duty Rating		NEMA B300	
Pin type		Plug-in	
Operating voltage range		85%...110% of rated supply voltage (12V DC: 90%...110% of rated supply voltage)*	
Reset voltage		10% min. of rated supply voltage‡	
Power consumption	24V AC:	Relay ON: Relay OFF:	1.5 VA (1.1 W) (at 24V AC, 60 Hz) 0.2 VA (0.1 W) (at 24V AC, 60 Hz)
	100...120V AC:	Relay ON: Relay OFF:	1.5 VA (1.3 W) (at 120V AC, 60 Hz) 0.8 VA (0.5 W) (at 120V AC, 60 Hz)
	200...230V AC:	Relay ON: Relay OFF:	1.8 VA (1.5 W) (at 230V AC, 60 Hz) 1.2 VA (0.9 W) (at 230V AC, 60 Hz)
	12V DC:	Relay ON: Relay OFF:	0.9 W (at 12V DC) 0.07 W (at 12V DC)
	24V DC:	Relay ON: Relay OFF:	0.9 W (at 24V DC) 0.07 W (at 24V DC)
	48V DC:	Relay ON: Relay OFF:	1.0 W (at 48V DC) 0.2 W (at 48V DC)
	100...110V DC:	Relay ON: Relay OFF:	1.3 W (at 110V DC) 0.3 W (at 110V DC)
	125V DC:	Relay ON: Relay OFF:	1.3 W (at 125V DC) 0.3 W (at 125V DC)
Control outputs		4PDT: 5 A at 250V AC, resistive load (cosφ = 1)	
Characteristics			
Make	▶ ◀	120V AC	30 A
		240V AC	15 A
Break	◀ ▶	120V AC	3 A
		240V AC	1.5 A
Hp at 120V AC		1/6 Hp	
Hp at 240V AC		1/6 Hp	
Accuracy of operating time		±1% FS max. (1 s range: ±1%±10 ms max.)	
Setting error		±10%±50 ms FS max.	
Reset time		Min. power-opening time: 0.1 s max. (including halfway reset)	
Influence of voltage		±2% FS max.	
Influence of temperature		±2% FS max.	
Insulation resistance		100 mΩ min. (at 500V DC)	
Dielectric strength	2000V AC, 50/60 Hz for 1 min (between current-carrying terminals and exposed non-current-carrying metal parts)*		
	2000V AC, 50/60 Hz for 1 min (between operating power circuit and control output)		
	2000V AC, 50/60 Hz for 1 min (between different pole contacts; 2-pole model)		
	1500V AC, 50/60 Hz for 1 min (between different pole contacts; 4-pole model)		
	1000V AC, 50/60 Hz for 1 min (between non-continuous contacts)		
Vibration resistance		Malfunction:10...55 Hz, 0.5 mm single amplitude	
Shock resistance		Malfunction:100 m/s² (approx. 10G)	
Ambient temperature		Operating:-10 °C...50 °C (with no icing) Storage:-25 °C...65 °C (with no icing)	
Ambient humidity		Operating:35%...85%	
Life expectancy	Mechanical:10 000 000 operations min. (under no load at 1800 operations/hr)		
	Electrical:4PDT: 200 000 operations min. (3 A at 250V AC, resistive load at 1800 operations/hr)		

* Single-phase, full-wave-rectified power supplies can be used.

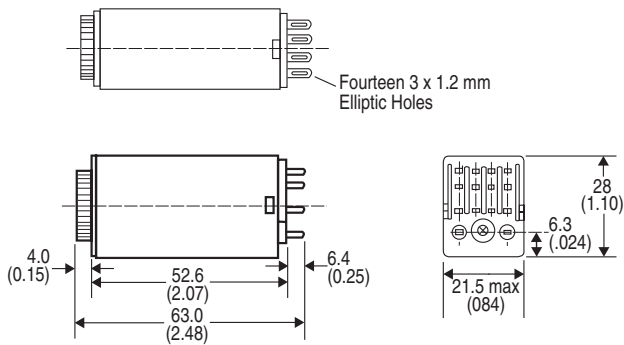
‡ When using the 700-HNC continuously in any place where the ambient temperature is in a range of 45 °C...50 °C, supply 90%...110% of the rated supply voltages supply 95%...110% with 12V DC type).

Approximate Dimensions

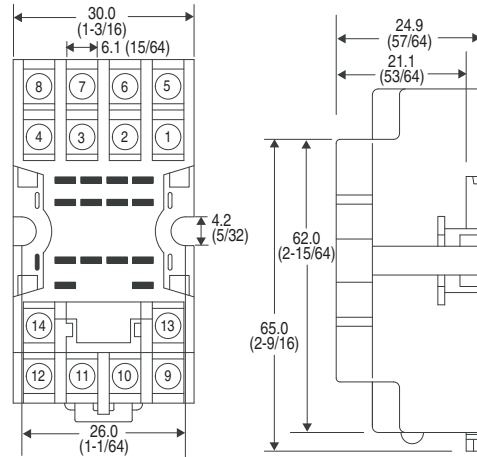
Approximate Dimensions are shown in millimeters (inches) where not specified. Approximate Dimensions are not intended to be used for manufacturing purposes.

Timers

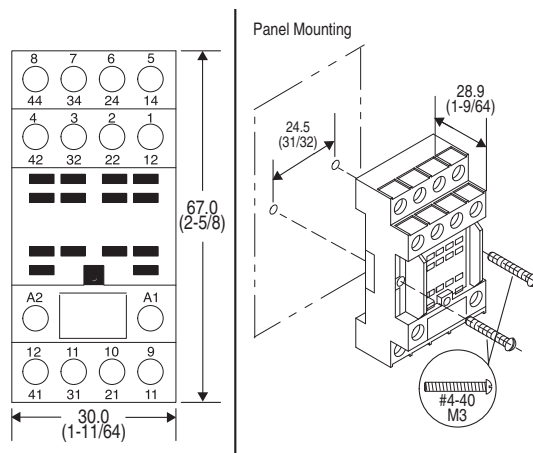
Front Mounting



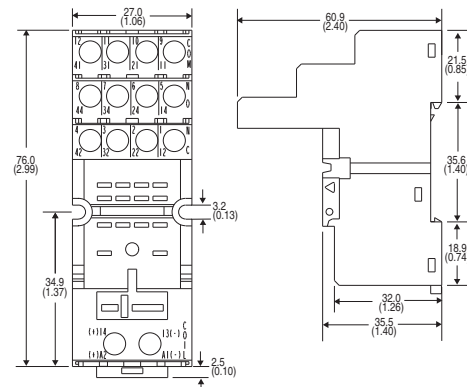
Cat. No. 700-HNC



Cat. No. 700-HN128*
 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 N•m (7 lb•in)



Cat. No. 700-HN103
 Single wire: 0.2...2.5 mm² (#24 AWG...14 AWG)
 Double wire: 2 x 0.2 mm²...2 x 1.5 mm² (2 x 24 AWG...2 x 16 AWG)
 Wire type: solid or stranded, copper only
 Strip length: 8 mm (5/16 in.), Torque: 0.5 N•m (4.4 lb•in)



Cat. No. HN-104
 Single Wire: 0.2...2.5 mm² (#24 AWG...14 AWG)
 Double Wire: 2 x 0.2 mm²...2 x 2.5 mm² (2 x 24 AWG...2 x 14 AWG)
 Wire Type: solid or stranded, copper only
 Strip Length: 7 mm (9/32 in.), Torque: 0.5 N•m (4.4 lb•in)

* Total height of 700-HN128 + 700-HNC is 82.5 mm.