

Discrete Plug-In Timing Relays – Series STA Specification Grade Tab-Type Precision



DESIGN FEATURES

- ◆ On-Delay, Off-Delay, Interval and Accumulating On-Delay operating modes
- ◆ Timing from 0.1 sec to 48 hours
- ◆ Two LEDs
- ◆ Tab-type plug-in terminals save space
- ◆ 10A DPDT output contacts
- ◆ Excellent Repeat Accuracy
- ◆ Available with knob adjustment, fixed time, or external potentiometer

SPECIFICATIONS

Operating Modes:

Type 01: On-Delay Type 02: Off-Delay
 Type 03: Interval Type 09: Accum. On-Delay

Timing Adjustment: Knob Adjustment or fixed time (internal fixed resistor), customer supplied external potentiometer or fixed resistors.

Timing Ranges: (+5% - 0% of maximum values):
 Fourteen timing ranges from 0.1 sec. to 48 hrs. as shown below.

6 to 180 cyc.	10 to 300 sec.
.1 to 3 sec.	2 to 60 min.
.5 to 15 sec.	.33 to 10 min.
1 to 30 sec.	.5 to 15 min.
2 to 60 sec.	1 to 30 min.
4 to 120 sec.	1 to 6 hrs.
6 to 180 sec.	2 to 48 hrs.

Accuracy: Repeat Accuracy: $\pm 0.5\% + 4 \text{ msec.}$
 Overall Accuracy: $\pm 2\% \text{ max.}$ (throughout operating voltage and temperature ranges)

Reset Time: 30 msec min. (between de-energization and re-energization without affecting accuracy.)

Relay Release Time (On-Delay and Accumulating On-Delay): 20 msec.

Relay Operate Time: Off-Delay: 30 msec.; Interval: 20 msec.

Operating Voltage: (+10%, -15%)

120VAC, 50/60Hz or 125 VDC

24VAC, 50/60Hz or 24 VDC

48VAC, 50/60Hz or 48VDC

12VDC

Transient Protection: 3000 Volts, 100 microseconds; 2500 Volts, 1 millisecond; 12 Volt and 24 Volt models - Consult Factory.

Output: DPDT Relay; 1/3 HP, 120/240 VAC; 345 VA, 120/240 VAC; 10A, 28 VDC; 120/240 VAC; Same Polarity

Life: Electrical: 500,000 operations at rated resistive load

Mechanical: 10,000,000 operations

Dielectric: 1000 Volts plus twice the nominal voltage for a duration of 1 minute.

Temperature Range:

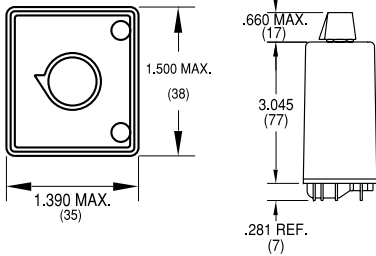
Operating: -22°F to +149°F (-30°C to +65°C)

Storage: -40°F to +185°F (-40°C to +85°C)

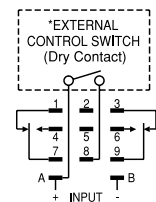
Mounting/Terminals: UL Recognized optional 11-pin tab-type socket, catalog No. BDT11SS. Socket not furnished; may be ordered separately.

Power Consumption: 3 watts, Status Indication. Two LED indicator lamps show ON status of control circuit and output load circuit. (Unit may be ordered without lamps).

Approximate Weight: 4.2 oz. (119 grams)

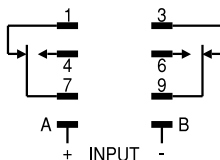


Off-Delay & Accumulating On-Delay



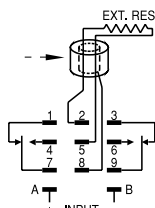
Fixed time or knob adjust

On-Delay



Fixed time or knob adjust

On-Delay & Interval Insulated, shielded two-conductor cable similar to Belden, 8719, 8720, or 8760, required for leads longer than six inches. Maximum permissible length fifty feet.



External potentiometer or resistor

ORDERING INFORMATION

Note: All "X's" must be included to form a complete catalog number.

STA	RX	01	2X	S	A	A	XA
Series STA Tab-Type Timer	Mounting RX - 11 pin tab-type header (Order UL Recognized socket separately – Cat. No. BDT11SS)	Operating Mode 01 - On-Delay 02 - Off-Delay 03 - Interval 09 - Accumulating On-Delay	Output 2X - DPDT Relay	Status Indication S - Control & Output indicator lamps X - No indicator lamps	Operating Voltage (+10%, -15%) A - 120 VAC / 125 VDC E - 24 VAC / 24 VDC F - 48 VAC / 48 VDC Q - 12 VDC	Timing Range A - .1 to 3 sec. B - .5 to 15 sec. C - 1 to 30 sec. D - 2 to 60 sec. E - 4 to 120 sec. F - 6 to 180 sec. G - 10 to 300 sec. I - 2 to 60 min. J - 1 to 6 hrs. K - 6 to 180 cyc. L - .33 to 10 min. M - .5 to 15 min. N - 1 to 30 min. R - 2 to 48 hrs.	Timing Adjustment XA - Knob Adjust XD - External Potentiometer or Resistor (Operating Modes 1 & 3 only) XF - Fixed Times (Specify time delay in sec.) Example: XF9.000=9 sec. XF99.00=99 sec. XF999.0=999 sec. XF1000=1000 sec.

Available: 11-pin tab type socket BDT11SS See page 17.

