



STA series

Specification Grade Discrete Plug-in Time Delay Relay With QC Terminals

- On-Delay, Off-Delay, Interval and Accumulating On-Delay timing modes
- 13 timing ranges from 0.1 sec. to 48 hr.
- 10A DPDT output contacts
- Knob, fixed or external timing adjustment.
- QC plug-in terminals save space, two LEDs show status

File E60363

File LR51332



Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Timing Modes

On-Delay, Off-Delay, Interval and Accumulating On-Delay.

Timing Specifications

Timing Ranges: 6 to 180 cycles; 0.1 to 3 / 0.5 to 15 / 1 to 30 / 2 to 60 / 4 to 120 / 6 to 180 / 10 to 300 sec.; 0.33 to 10 / 0.5 to 15 / 1 to 30 min.; 1 to 6 / 2 to 48 hr. (All are +5%, -0% of maximum values).

Timing Adjustment: Knob or fixed time (internal fixed resistor) – all models; customer supplied external potentiometer or resistor – On-Delay and Interval modes only.

Accuracy: Repeat Accuracy: $\pm 5\% \pm 0.004$ sec..

Overall Accuracy: $\pm 2\%$ throughout operating temperature and voltage ranges.

Reset Time: 30 ms. min. (between deenergization and reenergization without affecting accuracy.)

Relay Operate Time: Off-Delay mode: 35 ms.; Interval mode: 20 ms.

Relay Release Time: On-Delay and Accumulating On-Delay modes: 20 ms.

Contact Data @ 25°C

Arrangements: 2 Form C (DPDT).

Rating: 10A @ 28VDC or 120VAC, resistive; 1/3 HP @ 120/240VAC; 345VA. Same polarity.

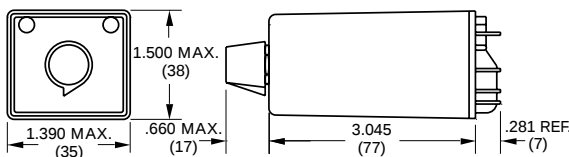
Expected Mechanical Life: 10 million operations.

Expected Electrical Life: 500,000 operations, min., at rated resistive load.

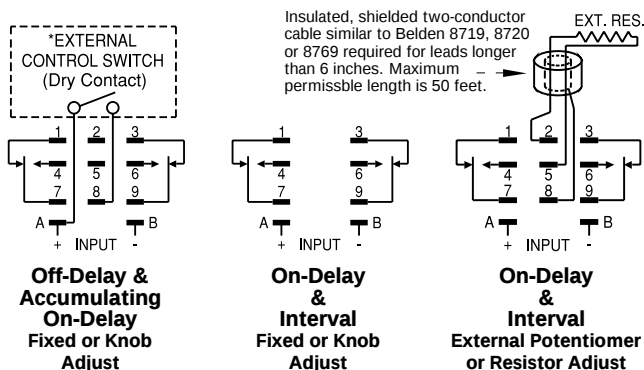
Initial Dielectric Strength

Between Terminals and Case: 1,000VAC plus twice the nominal voltage for one minute.

Outline Dimensions



Wiring Diagrams (Bottom Views)



Input Data @ 25°C

Voltage: See Ordering Information section for details.

Power Requirement: 3W, max.

Transient Protection: Non-repetitive transients of the following magnitudes will not cause spurious operation of affect function and accuracy.

Operating Voltage	<0.1 ms	<1 ms
All except 12 & 24	3,000V	2,500
12 & 24	Consult Factory	

Environmental Data

Temperature Range: Storage: -40°C to +85°C.

Operating: -30°C to +65°C.

Mechanical Data

Mounting/Termination: Quick connect terminals fit either 27E121 or 27E893 (snap-on) socket (order separately).

Status Indication: Power On LED and Output Contacts LED (optional).

Weight: 4.2 oz. (119g) approximately.

Ordering Information (All "X"s must be included to complete part number)

STA	RX	01	2X	S	A	A	XA
Series STA	Operating Mode	Status Indication	Timing Range				
Discrete	01 = On-Delay	S = LEDs	A = 0.1 to 3 sec.				
Industrial	02 = Off-Delay	X = No LEDs	B = 0.5 to 15 sec.				
Timer	03 = Interval		C = 1 to 30 sec.				
With	09 = Accumulating		D = 2 to 60 sec.				
Tab-type	On-Delay		E = 4 to 120 sec.				
Terms.			F = 6 to 180 sec.				
		Output	G = 10 to 300 sec.				
		2X = DPDT	I = 2 to 60 min.				
		Relay	J = 1 to 6 hr.				
			K = 3 to 180 cycles				
			L = 0.33 to 10 min.				
			M = 0.5 to 15 min.				
			N = 1 to 30 min.				
			R = 2 to 48 hr.				

Operating Voltage (+10%, -15%)

A = 120VAC, 50/60

Hz. / 120VDC

E = 24VAC, 50/60

Hz. / 24VDC

F = 48VAC, 50/60

Hz. / 48VDC

Q = 12VDC

Timing Adjustment

XA = Knob Adjust

XB = External

Potentiometer or resistor (Operating modes 1 and 3 only).

XF = Fixed Times – Specify time delay in seconds per the following examples:
XF9.000 = 9 sec.
XF99.00 = 99 sec.
XF999.0 = 999 sec.
XF1000 = 1000 sec.

Authorized distributors are likely to stock the following:

None at present.