



# SRC series

## Specification Grade Repeat Cycle Plug-in Time Delay Relay

- Repeat Cycle timing mode
- Dual knobs for user adjustment of on and off times.
- 13 timing ranges from 0.1 sec. to 60 min.
- 10A DPDT output contacts
- Exceptional immunity to line transients and noise
- Premium components enhance reliability
- Superior reset time of 24 msec.

### CE

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

**Repeat Cycle:** Application of line voltage starts the pre-set OFF-time period. Upon expiration of the period, the output relay is energized, its contacts transfer, and the pre-set ON-time period begins. At the end of this period the output relay is deenergized, and a new cycle begins. The OFF and ON cycles continue until power is removed. To reset the timer, input voltage must be removed for at least 25 ms.

### Timing Specifications

**Timing Ranges:** OFF time and ON time ranges need not be the same. 6 to 180 cycles; 0.1 to 3 / 1 to 10 / 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 / 2 to 60 min. (All are +10%, -1% of maximum values).

**Timing Adjustment:** Two internal potentiometers with external knobs.  
**Accuracy: Repeat Accuracy:** ±1% ±0.004 sec..  
**Overall Accuracy:** ±2.25% max.

**Reset Time:** 25 ms. max. (between deenergization and reenergization without affecting accuracy.)

**Relay Operate Time:** 20 ms.  
**Relay Release Time:** 15 ms.

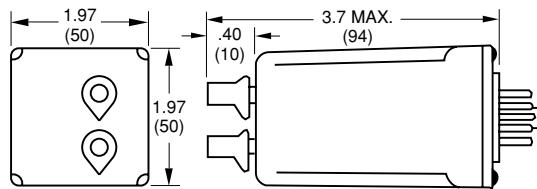
### Contact Data @ 25°C

**Arrangements:** 2 Form C (DPDT).  
**Rating:** 10A @ 28VDC or 120VAC, resistive; 1/3 HP @ 120/240VAC.  
**Expected Mechanical Life:** 10 million operations.  
**Expected Electrical Life:** 500,000 operations, min., at rated resistive load.

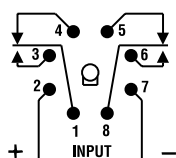
### Initial Dielectric Strength

**Between Terminals & Case and Mutually Isolated Contacts:** 1,480VAC.

### Outline Dimensions



### Wiring Diagram (Bottom View)



### 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   |
|-------------------|---------|---------|
| 12VDC             | 1,000V  | 240V*   |
| 24VAC/VDC         | 1,000V  | 240V*   |
| 48 VAC/VDC        | 1,000V  | 480V*   |
| 120 VAC/VDC       | 3,000V  | 2,500V* |
| 240VAC            | 3,000V  | 2,500V* |

\* Minimum source impedance of 100 ohm.

### 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).  
**Weight:** 5.3 oz. (149g) approximately.

### Ordering Information

| SRC                            | 7                     | 2                               | A  | C                                      | C   | A  |
|--------------------------------|-----------------------|---------------------------------|--|--|---|--|
| Series SRC Repeat Cycle Timer. | Output 2 = DPDT Relay | Operating Mode 7 = Repeat Cycle | Timing Range Off-Time<br>A = 0.1 to 3 sec.<br>B = 0.5 to 15 sec.<br>C = 1 to 30 sec.<br>D = 2 to 60 sec.<br>E = 4 to 120 sec.<br>F = 6 to 180 sec.<br>G = 10 to 300 sec.<br>I = 2 to 60 min.<br>K = 3 to 180 cycles<br>L = 0.33 to 10 min.<br>M = 0.5 to 15 min.<br>N = 1 to 30 min.<br>P = 0.1 to 10 sec. | Timing Adjustment A = Dual Knob Adjust | Timing Range On-Time<br>A = 0.1 to 3 sec.<br>B = 0.5 to 15 sec.<br>C = 1 to 30 sec.<br>D = 2 to 60 sec.<br>E = 4 to 120 sec.<br>F = 6 to 180 sec.<br>G = 10 to 300 sec.<br>I = 2 to 60 min.<br>K = 3 to 180 cycles<br>L = 0.33 to 10 min.<br>M = 0.5 to 15 min.<br>N = 1 to 30 min.<br>P = 0.1 to 10 sec. | Operating Voltage (+10%, -15%)<br>A = 120VAC, 50/60 Hz. / 120VDC<br>B = 240VAC, 50/60 Hz.<br>E = 24VAC, 50/60 Hz. / 24VDC<br>F = 48VAC, 50/60 Hz. / 48VDC<br>Q = 12VDC |

### Authorized distributors are likely to stock the following:

None at present.