

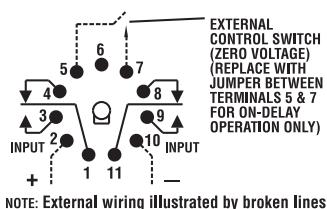
## SCF Series, Programmable, Time Delay Relay



### Product Facts

- 4 user-programmable timing modes
- 0.1 sec. to 10 hr. programmable timing range
- Parameters set with recessed dials
- Narrow width saves panel space
- 10A DPDT output relay
- Socket can be DIN-rail or back panel mounted
- File E15631 (relay) and E140494 (socket) 
- File LR29186 (relay) and LR29513M7 (socket) 

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.



Wiring Diagram  
(Bottom View)

### Timing Modes

Modes are user selectable via screwdriver adjustment of recessed 4-position selector dial.

Modes offered are: On-Delay, Off-Delay, Interval and Latching Interval.

### Timing Specifications

**Timing Ranges** — 0.1 to 3 / 0.33 to 10 / 1 to 30 / 4 to 120 sec.; 0.33 to 10 / 1 to 30 / 2 to 60 min.; 0.33 to 10 hr.

**Timing Range Selection** — Screwdriver select via recessed 8-position selector dial.

**Timing Adjustment** — External knob potentiometer adjustment with reference calibrations.

### Accuracy

Repeat Accuracy —  $\pm 1\% \pm 0.01$  sec.  
Overall Accuracy —  $\pm 3\% \pm 0.01$  sec.

**Reset Time** — 30 ms.

**Relay Operate Time** — On-Delay and Interval mode: 55 ms.

**Relay Release Time** — Off-Delay, Interval and Latching Interval: 40 ms.

### Contact Data @ 25°C

**Arrangements** — 2 Form C (DPDT).

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

**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.

### Input Data @ 25°C

**Voltage** — See Ordering Information section for details.

**Power Requirement** — 2W, 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, 125VDC	3,000V	2,500V*
240VAC/VDC	3,000V	2,500V*

\*Minimum source impedance of 100 ohm

### Environmental Data

#### Temperature Range

Storage —  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

Operating —  $-30^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ .

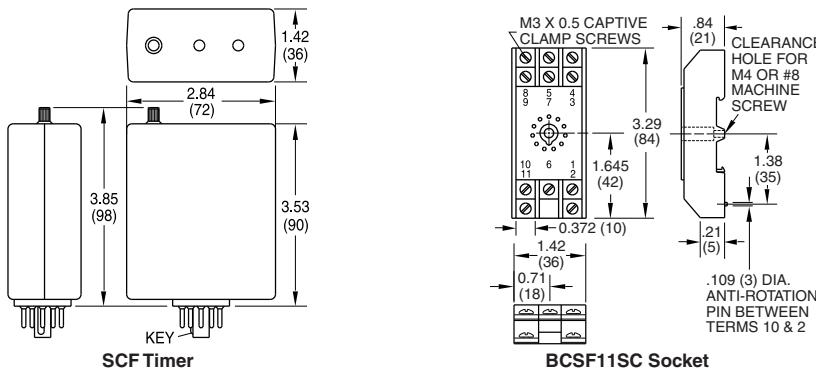
### Mechanical Data

**Mounting/Termination** — 11-pin octal-type plug for use with mating socket. Mount relay in horizontal position (pins horizontal, knob down, LEDs up).

**Status Indication** — Power On LED and Output Contacts LED.

**Weight** — Relay: 3.5 oz. (156g) approx.; Socket: 1.7 oz. (48.3g) approx.

### Outline Dimensions



### Ordering Information

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

SCF	RX	90	2	A	A
Series SCF Plug-In Programmable Timer		Operating Mode		Output Rating	
		90 = Multiple Modes On-Delay Off-Delay Interval Latching Interval		A = 10 Amp B = 5 Amp	
			Output		
			2 = DPDT Relay		
				Operating Voltage (+10%, -15%)	
				A = 120VAC, 50/60 Hz. / 125VDC	
				B = 240VAC, 50/60 Hz. §	
				E = 24VAC, 50/60 Hz. / 24VDC	
				F = 48VAC, 50/60 Hz. / 24VDC	
				Q = 12VDC	

RX = Without Socket  
RF = With Socket

A = 120VAC, 50/60 Hz. / 125VDC  
B = 240VAC, 50/60 Hz. §  
E = 24VAC, 50/60 Hz. / 24VDC  
F = 48VAC, 50/60 Hz. / 24VDC  
Q = 12VDC

§ Voltage Option B is only available with 5 Amp output option.

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

None at present.