

# Delay On Break (Retriggerable) T3 Series

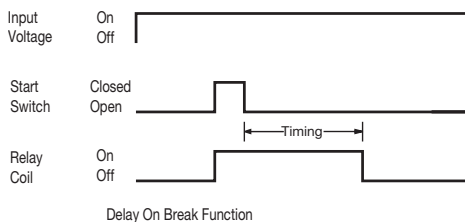
## FEATURES

- 100% functionally tested
- Digital timing circuit
- Time delays to 1 hour
- $\pm 1\%$  repeatability
- No false contact transfer when reset during timing
- Superior transient protection
- Fiberglass reinforced circuit board
- Internal components supported by heavy-duty chassis
- Reinforced locator pin
- Flame-retardant polycarbonate housing
-  File #E59090

**Operating Logic:** Voltage is applied to the timer at all times. Upon a closure of a normally open isolated start switch, the output relay is activated and remains so as long as the switch is kept closed. When the start switch is opened, timing starts. At the end of the preset time delay, the output relay is deactivated and the timer is ready for a new cycle.

*Note: 1) Do not apply voltage or ground to the start switch; 2) Switch leads should be shielded when running close to other wires; 3) If the start switch is reclosed during timing, the timer will reset and will not start timing until Start switch is opened.*

## LOGIC FUNCTION DIAGRAM



## SPECIFICATIONS

### TIME DELAY

**Adjustment:** Knob, factory fixed on special order (min. order required)

**Range:** 50 ms to 1 hour in 8 ranges

**Repeatability:**  $\pm 1\%$  at constant temperature

### Accuracy:

Maximum time -0%, +10%

Minimum time +0%, -50%

**Reset Time:** 400 ms max.

**Start Switch Closure Time:** 20 ms to initiate timing; 50 ms to reset delay during timing

### INPUT

**Operating Voltage:** 24, 120 VAC; 12, 24 VDC  $\pm 10\%$  (DC models have reverse polarity protection. Unfiltered input voltage to them must be full-wave rectified)

**Power Consumption:** 3 VA max.

**Frequency:** 50/60 Hz

### OUTPUT

**Type:** Relay contacts, SPDT (1 form C) or DPDT (2 form C)

**Rating:** 10 A max. resistive at 240 VAC; 100 mA at 5 VDC min. load current

### Life:

Mechanical: 10,000,000 operations

Full Load: 500,000 operations

### PROTECTION

**Transient Voltage:** 12 and 24 V timers are protected by an 8.8 joule metal oxide varistor; 120 V timers are protected by a 30 joule metal oxide varistor

**Dielectric Breakdown:** 1500 VAC, RMS min. at 60 Hz between input and outputs and between outputs

### MECHANICAL

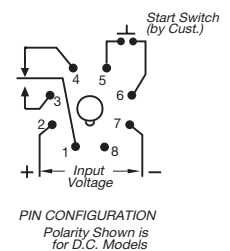
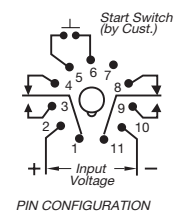
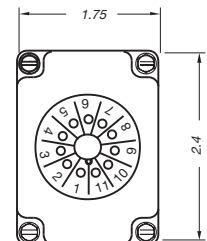
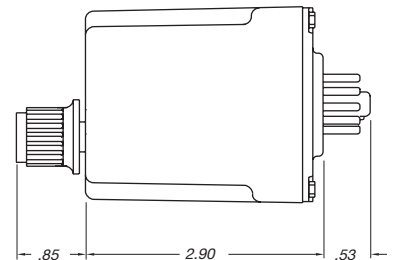
**Termination:** 8-pin or 11-pin plug

**Mounting:** Socket mount, 8-pin part number MSO-0008P-012; socket mount, 11-pin part number MSO-0011P-012

### ENVIRONMENTAL

**Storage Temperature:** -23°C to 70°C

**Operating Temperature:** -23°C to 55°C



## ORDERING INFORMATION

| TIME RANGE      | 12 VDC<br>DPDT RELAY<br>11-PIN BASE | 24 VDC<br>DPDT RELAY<br>11-PIN BASE | 24 VAC<br>DPDT RELAY<br>11-PIN BASE | 120 VAC<br>SPDT RELAY<br>8-PIN BASE | 120 VAC<br>DPDT RELAY<br>11-PIN BASE |
|-----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|
| .05 to 5 sec.   | —                                   | —                                   | —                                   | —                                   | T3K-00005-461                        |
| .1 to 10 sec.   | T3K-00010-466                       | T3K-00010-462                       | T3K-00010-467                       | T3K-00010-441                       | T3K-00010-461                        |
| .3 to 30 sec.   | —                                   | —                                   | —                                   | —                                   | T3K-00030-461                        |
| .6 to 60 sec.   | T3K-00060-466                       | T3K-00060-462                       | T3K-00060-467                       | T3K-00060-441                       | T3K-00060-461                        |
| 1.8 to 180 sec. | —                                   | —                                   | —                                   | —                                   | T3K-00180-461                        |
| 3 to 300 sec.   | —                                   | —                                   | —                                   | —                                   | T3K-00300-461                        |
| 6 to 600 sec.   | —                                   | —                                   | —                                   | —                                   | T3K-00600-461                        |
| 36 to 3600 sec. | T3K-03600-466                       | T3K-03600-462                       | T3K-03600-467                       | —                                   | T3K-03600-461                        |

Consult factory for any special requirements not listed in catalog (minimum order requirement may apply).