

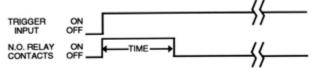
(800) 752-2329 www.Amperite.com



#### **Timing Mode:**

Input voltage must be applied continuously to operate the internal relay. The relay energizes and timing begins when the external switch is closed. At the end of the time delay period the relay will de-energize. Reset is accomplished by opening and re-closing the control switch.

#### **Timing Diagram:**

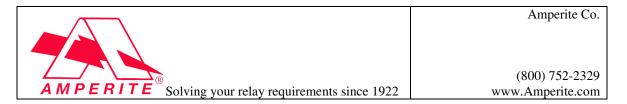


#### **Contact Information:**

Arrangement: 2 form C (DPDT) - Diagram C Contact Material: Silver - Cadmium Oxide Rating (Resistive): 10A @ 240V AC Resistive 15A @ 30V DC Resistive 15A @ 120V AC Resistive 1/3 HP @ 120V AC 1/2 HP @ 250V AC Expected Life @ 25°C: 10 Million operations, Mechanical 100,000 operations minimum at rated loads

## **Environmental Information:**

Temperature Range: Storage: -60°C to +105°C (-76°F to +221°F)



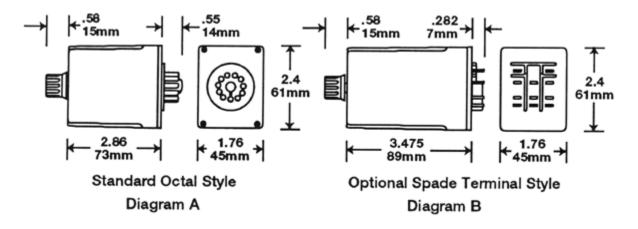
Operating:  $-45^{\circ}$ C to  $+70^{\circ}$ C ( $-49^{\circ}$ F to  $+158^{\circ}$ F)

## **Mechanical Information:**

Termination: 11 pin Octal Style Plug or 11-pin spade terminals (Dia. C&D) Enclosure: Black plastic case. Knob adjustable models have a dial scale for reference only

Weight: 4oz (114g) approx.

### **Outline Dimension:**



#### **Timing Specifications:**

Timing - Fixed: 0.1 through 480 secs.

Timing Ranges: 0.1-60, 60 - 120, 120 - 180, 180 - 240, 240 - 300, 300 - 480 secs. Custom Timing is available.

Timing Adjustment: Knob adjustable potentiometer.

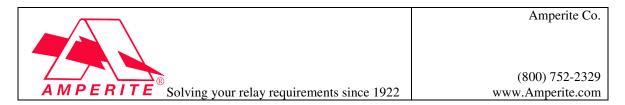
Timing Tolerance: Fixed Units:  $\pm 5\%$ ; Adjustable Units: -0 to +25% of maximum specified delay time. Minimum specified value or less at low end. Repeatability:  $\pm 5\%$ Release Time: 60 ms typical, 100 ms maximum

#### Initial Dielectric Strength:

Between open contacts: 1000V RMS, Between adjacent contacts: 1500V RMS, Between contacts & coil: 1500V RMS

#### **Input Information:**

Voltage: AC units - 12V, 24V, and 120V. DC units - 12V, 24V, 48V and 110V. Other voltages are available Power Requirement: AC units: 3 VA or less; DC units: 2 Watts or less

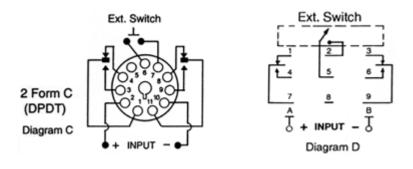


Transient Protection: 1 JOULE MOV Polarity Protection: On DC units - Yes

## **Input Voltages & Limits:**

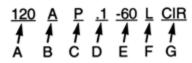
Nominal	Minimum	Maximum
12V AC	10V	14V
24V AC	20V	28V
120V AC	105V	130V
12V DC	11V	14V
24V DC	20V	32V
48V DC	41V	55V
110V DC	95V	125V

## Wiring Diagrams:



# Ordering Information:

Definition of a part number for the Amperite CIR Series Time Delay Relay. Example:



A: Denotes nominal input voltage. Voltages Available:

12, 24 & 120V AC; 12, 24, 48 & 110V DC. Custom voltages are available.

**B:** Denotes type of input current required for operation:

A = AC - Alternating Current

D = DC - Direct Current

**C:** Denotes contact form: P= DPDT - 2 form C.

**D & E:** Denotes range of knob adjustability for timing (in seconds) where:

D = Minimum time delay.

E = Maximum time delay for adjustable TDR's.

Note:

1.) Ranges available: 0.1 - 60, 60 - 120, 120 - 180, 180 - 240, 240 - 300 & 300 - 480 secs. Custom timing is available.

2.) Both values (D & E) can be replaced by a single value for a factory preset time delay in seconds from 0.1 through 480 secs.

**F:** Enter "L" if optional 11-pin spade terminals are required (Dia. B &D).

G: Denotes use of solid state analog circuitry of CIR Series.

Solving Your Relay Requirements Since 1922