TGLB Timers

TGLB series Cube Relay Interval On timers are a unique combination of digital CMOS timing circuitry with a relay output in a compact 2” x 2” configuration.

These units provide the same functional performance as plug-in relay timers, but at significant cost savings.

The relay common is connected to (+) or hot.

Timing Mode

Application of input voltage to the timer energizes the load and starts the time delay.

At the end of the time delay, the load is de-energized.

Removal and re-application of input voltage resets the timer.

Features

- High current-carrying capacity up to 20 amps
- Transient protected
- 100% Load isolation
- No leakage in N.O. position
- No heat sinking required
- Available in any time delay period required
- Digital CMOS timing
- No minimum load required
- Totally encapsulated for protection from harsh environments
- 100% Operational testing before shipping
- RoHS compliant

SPECIFICATIONS

Timing Mode: INTERVAL ON
Category: TIMER WITH RELAY
Series: TGLB
CUBE RELAY, 10-20 AMPS
**BASIC WIRING AND DIMENSIONS**

![RELAY Diagram]

**OPTIONS SELECTION**

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<td>TGLB</td>
<td>1 120 VAC</td>
<td>10 Amps</td>
<td>A</td>
<td>1 SPDT</td>
<td>H 10 Amps</td>
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<td></td>
<td></td>
<td>2 230 VAC</td>
<td>15 &amp; 20 Amps</td>
<td>B</td>
<td>2 SPST (N.O.)</td>
<td>JN 15 Amps (1.0 HP)</td>
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<td></td>
<td></td>
<td>3 24 VAC</td>
<td></td>
<td>C</td>
<td>3 SPST (N.C.)</td>
<td>J 20 Amps (1.5 HP)</td>
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<td>4 24-28 VDC</td>
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<td>5 48 VAC</td>
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<td>6 48 VDC</td>
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<td>7 12 VDC</td>
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<td>8 Any in AC voltage (specify)</td>
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<td>9 Any in between DC voltage (specify)</td>
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**SPECIFICATIONS**

**Input Voltage:**
- VDC: 12, 24 or 48
- VAC: 24, 48, 120 or 230, 50/60 Hz

**Time Delay:**
- **Timing Mode:** Interval On
- **Type:** Digital CMOS
- **Time Range:** 0.1 seconds to 24 hours
- **Time Adjustments:** Factory-fixed time period; variable, with adjustments on timer, or terminals for external resistor or potentiometer

**Repeatability:** ±0.5%

**Setting Accuracy:** Fixed time period: ±10% of nominal time. Variable time range: +15% -5% max. time, -10% min. time

**Reset/Recycle Time:** 25 milliseconds

**Initiate Time:** 6 milliseconds or less

**Relay Life Expectancy:**
- **Mechanical:** 20 million operations
- **Electrical:** 100,000 operations

**Protection:**
- **Polarity Protection:** All DC units have reverse polarity protection
- **Transient Protection:** 18 joules
- **Dielectric Strength:** 1800V RMS 60Hz

**Temperature Ranges:**
- **Storage:** -40°C to +85°C
- **Operating:** -25°C to +65°C

**Physical Data:**
- **Mounting:** Surface with one #8 screw
- **Connection & Termination:** 0.25” quick connects

Specifications subject to change without notice.

AIROTRONICS Timers & Controls
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