TGC Timers

TGC series Cube Relay Delay on Make 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 at significant cost savings.

Timing Mode

Application of input voltage to the timer starts the time delay. At the end of the delay period, the load is energized. To reset, remove the input voltage to the timer.

FEATURES

- High current-carrying capacity up to 30 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
**Input Voltage:**
- **VDC:** 12, 24 or 48
- **VAC:** 24, 48, 120 or 230, 50/60Hz
- Special AC or DC voltages available

**Time Delay:**
- **Timing Mode:** Delay On Make
- **Type:** Digital CMOS
- **Time Range:** 0.5 second 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 Output Form:**
- **Standard:** SPST N.O.
- **Optional:** SPST N.C., SPDT

**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.**

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**OPTIONS SELECTION**

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<td>TGC</td>
<td>1 120 VAC</td>
<td>0001 0.5 to 1 sec.</td>
<td>AVariable, integral, knob on timer.</td>
<td>1 SPDT</td>
<td>H 10 Amps</td>
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<td>2 230 VAC</td>
<td>0010 .1 to 10 sec.</td>
<td>BVariable, external knob remote.</td>
<td>2 SPST (N.O.)</td>
<td>JN 15 Amps (1.0 HP)</td>
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<td>3 24 VAC</td>
<td>0100 1 to 100 sec.</td>
<td>CFixed, internal, factory set.</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>
<td>1000 10 to 1000 sec.</td>
<td>DFixed, external, resistor remote.</td>
<td>*4 DPDT</td>
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<td>5 48 VAC</td>
<td>Any range up to 24 hours available.</td>
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<td>6 48 VDC</td>
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<td>9 Any in between DC voltage (specify)</td>
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</table>

**EXAMPLE:** TGC 0010 A 2 H

TGC, 120 VAC, 10 seconds, adjustable, SPST, 10 Amps

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