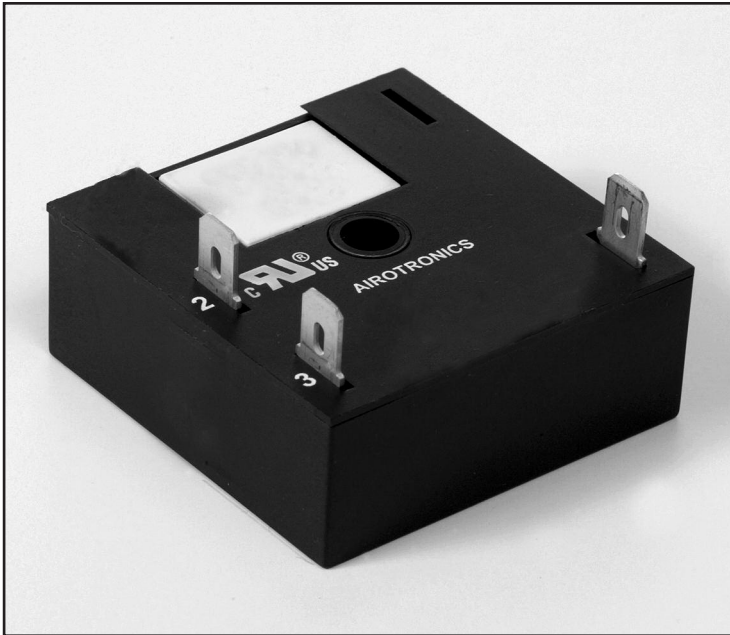


Timing Mode: **ANTI-SHORT-CYCLE**

Category: **TIMER WITH RELAY**

Series: **TGSCB**

## CUBE RELAY TIMER, 10 AMPS



### TGSCB Timers

The TGSCB series meets the needs of HVAC applications requiring more than 1 amp output for compressor protection.

An optional 1-second Delay On Make is offered to prevent contactor "hum."

Simple 3 terminal connection and an encapsulated 2" x 2" package.

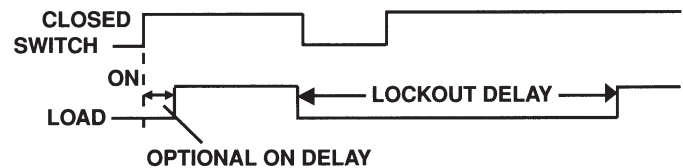
Anti-short-cycle timers prevent premature cycling of compressors in refrigeration, air conditioning and heat pumps, thereby reducing nuisance tripping of fuse or circuit breaker.

### Timing Mode

When power is applied (i.e. thermostat closes), the load energizes. Removal of power begins the "lockout" and the time delay begins (i.e. locking out the compressor). The load is energized after the time delay expires.

S1 option provides a 1-second delay before the load is energized.

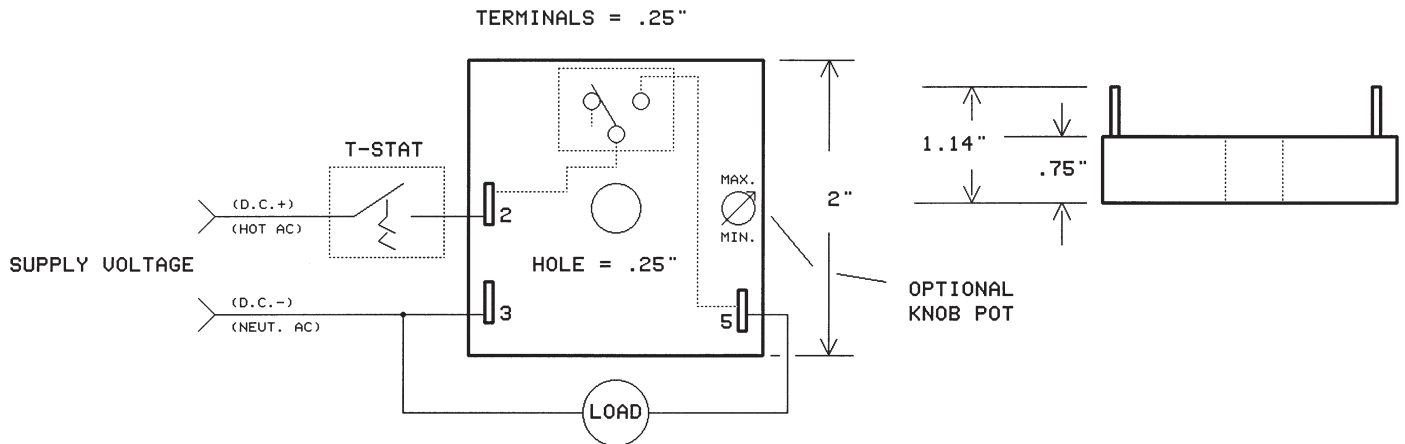
Delay On Make option delays the initial load output for up to 5 minutes.



## FEATURES

- Can replace all solid state timers
- Relay rating of 10 amps
- No voltage drop to load
- No leakage current in N.O. position
- No minimum load
- Optional Delay On Make
- Transient protected
- 100% load isolation
- Totally encapsulated for protection from harsh environments
- 
- RoHS compliance available

## BASIC WIRING AND DIMENSIONS



## SPECIFICATIONS

**Input Voltage:** VAC or VDC: 24  
VAC: 120 or 230

**Time Delay:** Any time fixed or adjustable up to 10 minutes

**Repeatability:** Time tolerance of  $\pm 20\%$

**Initiate Time:** 16 milliseconds

**Relay Output:** 10 amps resistive

**Relay Life Expectancy:** *Mechanical:* 1 million cycles  
*Electrical:* 100,000 cycles electrical under full load

**Protection:** Transient Protection: 18 joules

**Temperature Ranges:**

*Storage:* -40°C to +85°C

*Operating:* -25°C to +65°C

**Physical Data:** Surface mount with single #8 or #10 screw

**Connection & Termination:** 0.25" quick connects

## OPTIONS SELECTION

Mode of Operation	Series	Input Voltage	Time Ranges	Time Adjustment Method	Relay Output Form	Options
Anti-Short-Cycle (Lockout)	TGSCB	1 120 VAC	<b>VARIABLE TIME PERIODS</b>	A Integral knob C Factory fixed	2 SPST Normally open	H 10 amps S1 1 second on delay
		2 230 VAC	060 - 1 min.			
		3 24 VAC	0120 - 2 min.			
		4 24 VDC	0180 - 3 min.			
			0240 - 4 min.			
			0300 - 5 min.			
			0600 - 10 min.			
			<b>FIXED TIME PERIODS</b>			
			Any fixed time up to 10 minutes			

*Specifications subject to change without notice.*