

Timing Mode: **ANTI-SHORT-CYCLE**  
Category: **SOLID STATE TIMER**  
Series: **TH3AC**

## CUBE SOLID STATE, 1 AMP



PELCO COMPONENT TECHNOLOGIES • 855 227 3526



### TH3AC Timers

The TH3AC are Anti-Short Cycle timers with solid state output for compressor protection.

An optional "Delay On Make" function is offered for sequencing or prevention of contactor chatter.

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

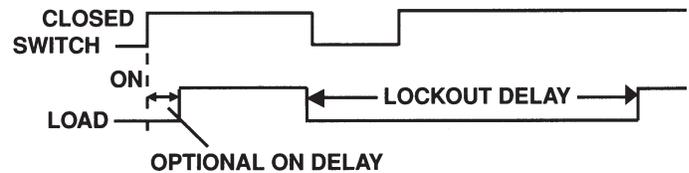
Anti-short-cycle timers prevent premature cycling of compressors in refrigeration, air conditioning and heat pumps, thereby reducing nuisance tripping of fuse or circuit breaker.

**NEW PHOTO IS ON PB pg1  
TH3AC.jpg, solid case, no pot 3/31/15**

### 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.

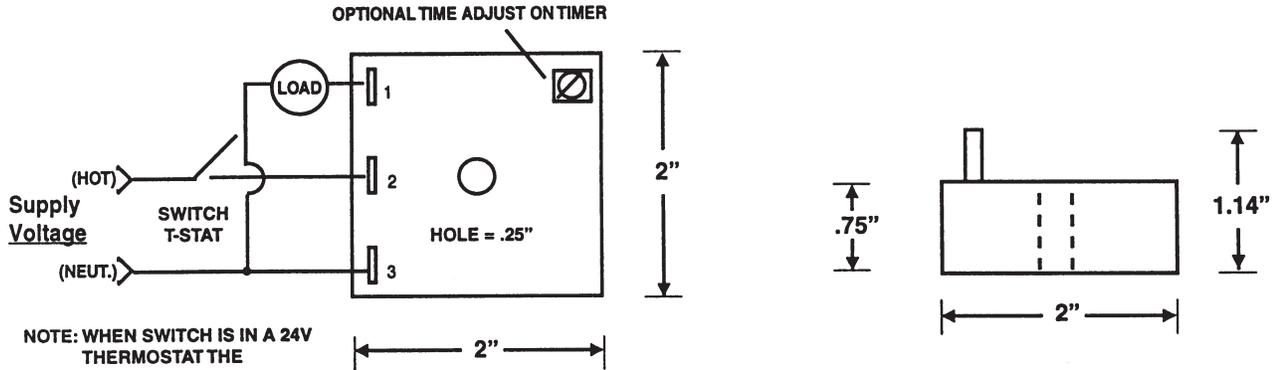
Delay On Make option delays the initial load output for up to 5 minutes.



## FEATURES

- 1 Amp current load
- 10 Amps single AC cycle surge handling
- 3 Operating voltages 24/120/230 VAC
- Factory-fixed or potentiometer adjustable
- Totally encapsulated for protection from harsh environments
- Optional Delay On Make
- 24 VAC unit has anticipator resistor bypass
- Single screw mounting through center hole
- Industry-standard three-terminal (0.25") quick connects
- 100% Operational testing before shipping
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- RoHS compliant

## BASIC WIRING AND DIMENSIONS



**NOTE:** WHEN SWITCH IS IN A 24V THERMOSTAT THE ANTICIPATOR RESISTOR CAN BE AS LOW AS 2K OHMS.

**OPERATION:** WHEN SWITCH CLOSES, LOAD ENERGIZES. WHEN SWITCH OPENS, LOAD DE-ENERGIZES AND THE TIME DELAY BEGINS, EVEN IF SWITCH RECLOSES DURING TIMING LOAD STAYS OFF UNTIL DELAY EXPIRES.

## SPECIFICATIONS

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**Input Voltage:**

VAC: 24 (±20%) 50/60Hz  
 VAC: 120/230, 50/60Hz

**Anticipator Resistor:**

(24VAC only) 200 Ohms minimum

**Time Delay:** Up to 10 minutes

**Lockout Time:** Factory-fixed or variable with knob on timer

**Tolerance:** +35% -15% of nominal time

**Initiate Time:** 16 milliseconds

**Life Expectancy:**

No predictable failure if used within operating parameters.

**Protection:**

*Transient Protection:* 18 joules  
*Dielectric Strength:* 1800 RMS 60Hz

**Temperature Ranges:**

*Storage:* -40°C to +85°C  
*Operating:* -25°C to +65°C  
*Humidity:* 95% relative

**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	Options
Anti-Short-Cycle (Lockout)	TH3AC	1 120 VAC 50/60Hz	<b>VARIABLE TIME PERIODS</b>	A Integral knob	<b>SXXX</b> On delay (up to 5 min.)
		2 230 VAC 50/60Hz	060 - 1 min. 0120 - 2 min. 0180 - 3 min. 0240 - 4 min. 0300 - 5 min. 0600 - 10 min. XXX - fixed	C Factory-fixed	<b>XXX</b> Time Period <b>XXS</b> Time in sec.
		3 24 VAC 50/60Hz	<b>FIXED TIME PERIODS</b>		Example: 30S = 30 second fixed time
			Any fixed time up to 10 minutes		

*Specifications subject to change without notice.*