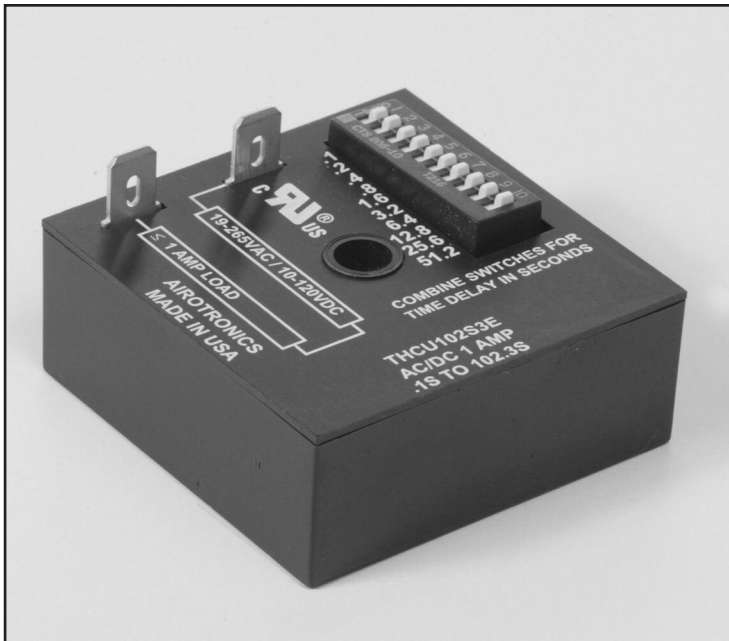


Timing Mode: **DELAY ON MAKE**
Category: **SOLID STATE TIMER**
Series: **THCU-E**

CUBE SOLID STATE, UNIVERSAL AC/DC WIDE VOLTAGE, DIPSWITCH



THCU Timer

THCU is a universal AC/DC voltage solid state timer in a compact 2" x 2" configuration. This unit features wide operating voltages: 19 to 265 VAC and 10 to 120 VDC.

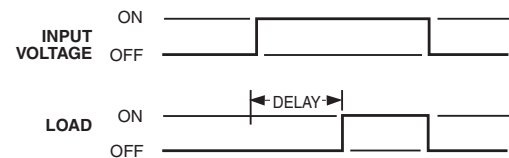
THCU-E offers three time ranges: 0.1 second to 102.3 seconds in 0.1-second increments, 1 second to 1023 seconds in 1-second increments, or 10 to 10230 seconds in 10-second increments. Ten-position binary dipswitch is easy to program.

Advanced digital circuitry provides this timing module with unsurpassed accuracy and reliability.

Available with factory-fixed time as THCU-C.

Timing Mode

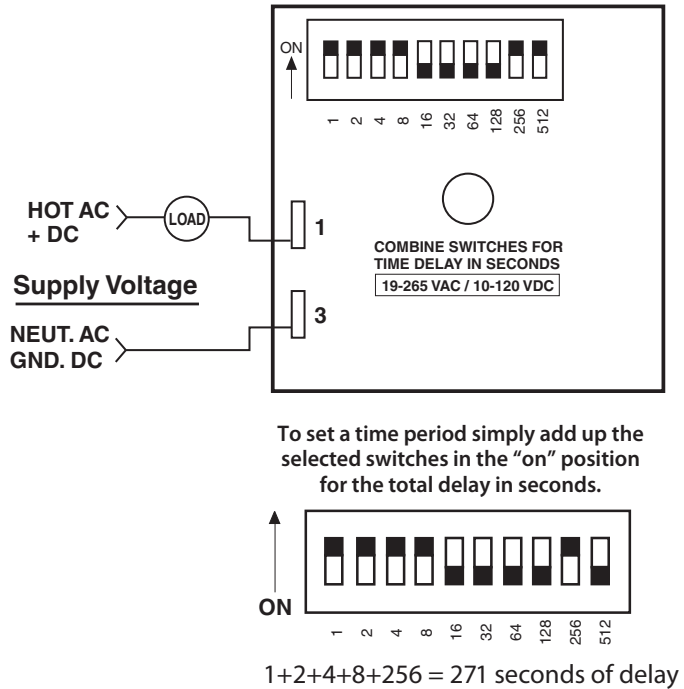
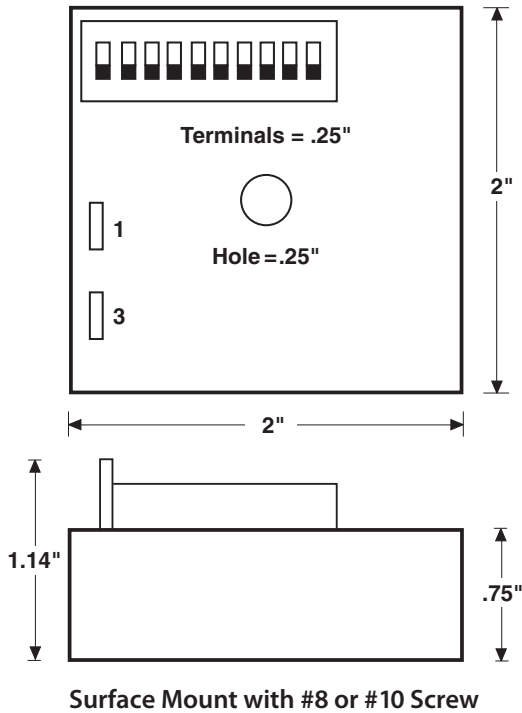
Application of input voltage to the timer starts the time delay.
At the end of the delay period, the load is energized.
To reset, remove the input voltage to the timer.



FEATURES

- Wide and universal operating voltage in a single unit: operates from 19-265 VAC and 10-120 VDC
- Operates at 50/60Hz
- DC polarity independent
- Precise timing accuracy in three ranges:
 - 0.10 to 102.3 seconds in 0.1-second increments
 - 1 to 1023 seconds in 1-second increments
 - 10 to 10230 seconds in 10-second increments
- Easy to program with 10-position binary dipswitch
- Digital timing accuracy
- Time setting accuracy of $\pm 5\%$ of set point
- Repeatability of $\pm 0.1\%$
- Extremely low off-state leakage current
- Fixed time periods available
- Eliminates contactor "hum"
- Compact, easy to hook up, in-line installation
- Vertical mounting option available with MB-1 Bracket
- Totally encapsulated for protection from harsh environments
- 100% Operational testing before shipping
- RoHS compliance available

DIMENSIONS AND TIME RANGE SELECTION



SPECIFICATIONS

Repeat Accuracy: $\pm 0.1\%$ under fixed conditions

Time Range: 0.1–102.3 seconds in 0.1-sec. increments
 1–1023 seconds in 1-sec. increments
 10–10230 seconds in 10-sec. increments

Reset Time: 25 milliseconds after timing cycle
 200 milliseconds during timing cycle

Timing Tolerance: $\pm 10\%$ max $\pm 5\%$ typical

Operating Voltage:
 19-265 VAC/10-120 VDC
 50/60Hz

Mode of Operation: Delay on Make

Storage Temperature: -40°C to $+85^{\circ}\text{C}$

Operating Temperature: -25°C to $+65^{\circ}\text{C}$

Transient Protection: 18 joules varistor

Voltage Drop in "On" State:
 4 volts max / 3 volts nominal @ 1 amp peak

Output Leakage Current in "Off" State:
 6.4 mA @ 265 VAC
 3.3 mA @ 120 VAC
 1.6 mA @ 48 VAC
 1.0 mA @ 24 VAC

Switching Current:
 1 Amp steady state max.
 10 mA min.
 10 Amps inrush

OPTIONS SELECTION

| Mode of Operation | Series | Input Voltage | Time Ranges | Time Adjustment Method |
|-------------------|-----------------------------------|----------------------------|---|---|
| Delay On Make | THC Standard Size (2" x 2") | U 19-265 VAC 10-120 VDC | VARIABLE TIME PERIODS | E Variable, Dipswitch C Fixed Time THCU060SC = 60 seconds fixed |
| | | | 102S3 0.1 to 102.3 sec. (in 0.1 sec. increments) 1023 1 to 1023 sec. (in 1 sec. increments) 10230 10 to 10230 sec. (in 10 sec. increments) | |

EXAMPLE THC U 1023 E Time range 1 to 1023 seconds in 1-second increments
 Specifications subject to change without notice.