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# QLS SERIES ENCAPSULATED DELAY ON BREAK ANTI-SHORT CYCLE

## FEATURES

- Lock Out Delay Starts With Opening of Thermostat or Loss of Power
- 24 Volts AC Normal Operation
- 19 Volts AC or Less Brown-Out Protection Prevents Low Voltage Start Up
- Anticipator Compensation Circuitry Prevents Anticipator From Effecting Normal Operation
- Eliminates Rapid Cycling of Compressors And Relay Chatter
- Fixed or Adjustable Delays

## SPECIFICATIONS

- 1. Time Delay.**
  - 1.1 Type: Analog
  - 1.2 Range: 0.1 to 5 mins. adjustable, 2,3 or 5 min. fixed
  - 1.3 Repeat accuracy:  $\pm 2\%$
  - 1.4 Reset time: 100 milliseconds
- 2. Input.**
  - 2.1 Operating voltage: 24 VAC
  - 2.2 Frequency: 50 - 60 Hertz
- 3. Output.**
  - 3.1 Type: Solid state
  - 3.2 Form: SPST
  - 3.3 Rating: 1.0 ampere (40mA minimum or consult factory) 10 amperes inrush
  - 3.4 Life: 100,000,000 operations minimum under full load
- 4. Protection.**
  - 4.1 Transient:  $\pm 1500$  volts for 150 microseconds
  - 4.2 Dielectric breakdown: 1500 volts RMS minimum
- 5. Mechanical.**
  - 5.1 Mounting: One #8 or #10 screw
  - 5.2 Termination: 1/4" quick connect
  - 5.3 Style: Surface mount / encapsulated
- 6. Environmental.**
  - 6.1 Operating temperature:  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
  - 6.2 Storage temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
  - 6.3 Humidity: 95% relative, non-condensing

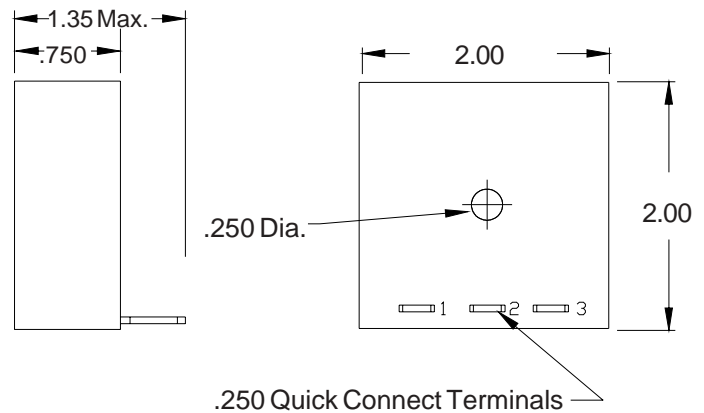
## MODE OF OPERATION DELAY ON BREAK - ANTI-SHORT CYCLE

Power is applied when the thermostat closes and the compressor immediately energizes. When the thermostat opens, at the end of each cycle, a lockout delay begins which prevents the compressor relay from re-energizing. If the thermostat is closed, after the time delay is completed, the compressor relay will energize. In case of a momentary loss of power, the lockout will begin, preventing the compressor relay from closing for the duration of the delay.

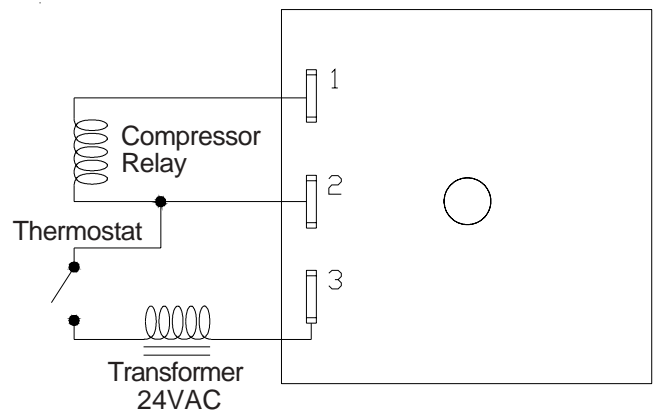
- Prevents rapid cycling or chatter of compressor contactors in cooling, heat pump, and refrigeration systems.
- Allows head pressure to equalize before a start



## DIMENSIONS



## CONNECTION DIAGRAM



## ORDERING INFORMATION

SERIES	TIME DELAY
QLS24	A - 0.1 to 5 Minutes Adjustable -2 - 2 Minutes Fixed -3 - 3 Minutes Fixed -5 - 5 Minutes Fixed