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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: ± 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°C to $+60^{\circ}\text{C}$
- 6.2 Storage temperature: -40°C to $+85^{\circ}\text{C}$
- 6.3 Humidity: 95% relative, non-condensing

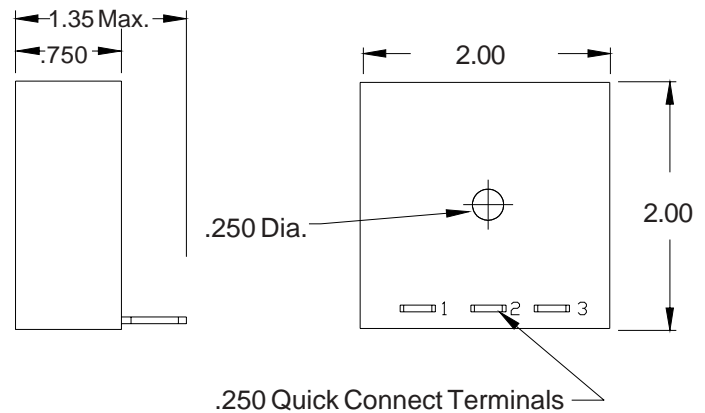
MODE OF OPERATION DELAY ON BREAK - ANTI-SHORT CYCLE

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.

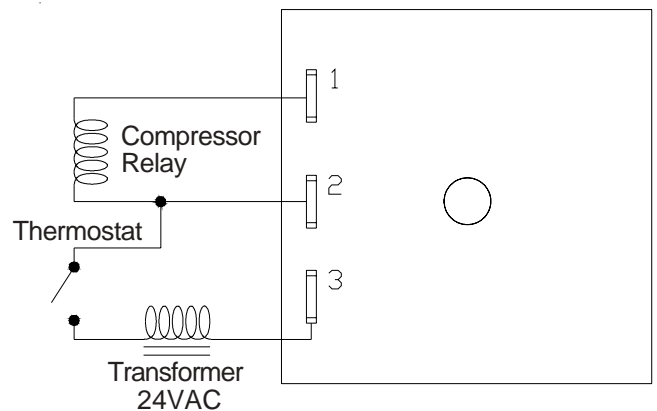
- Prevents rapid cycling or chatter of compressor contactors in cooling, heat pump, and refrigeration systems.
- Allows head pressure to equalize before a start



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