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QLS SERIES 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 Affecting 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: Adjustable from 0.1 to 5 Minutes
 Fixed at 2, 3, or 5 Minutes
- 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

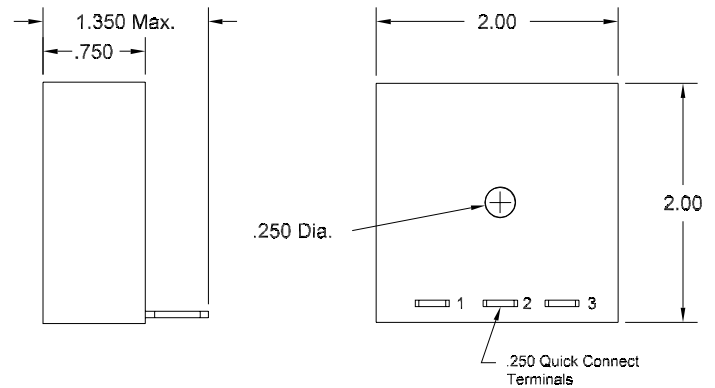
DELAY ON BREAK - ANTI-SHORT CYCLE

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.

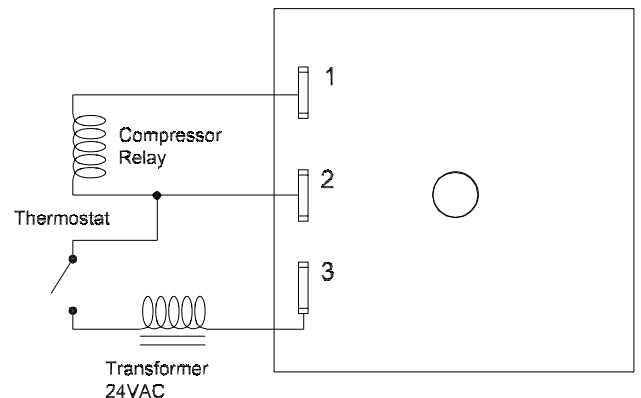
- Prevents rapid cycling or chatter of compressor contactors in cooling, heat pump, and refrigeration systems.
- Allows head pressure to equalize before a start



DIMENSIONS



CONNECTION DIAGRAM



ORDERING INFORMATION

SERIES	INPUT VOLTAGE
QLS24	A - 0.1 to 5 Minutes Adjustable 2 - 2 Minutes Fixed 3 - 3 Minutes Fixed 5 - 5 Minutes Fixed