

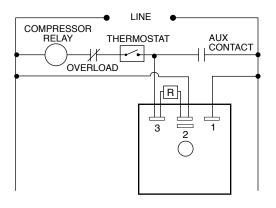
TSA141300

Anti-Short Cycle, Solid StateTimer



ANTI-SHORT CYCLE SOLID STATE TIMER BAMPERE MAXIMUM

Wiring Diagram



Specifications

Time Delay Type Repeat Accuracy Tolerance Time Delay vs. Temperature Input Voltage Tolerance AC Line Frequency Output Type Maximum Load Current

Voltage Drop

Protection Transient Dielectric Breakdown Insulation Resistance Factory fixed 5 minutes ± 5% under fixed conditions Factory calibration: ± 15% ± 10% max.

120 volts AC ± 20% of nominal 50/60 Hz

Solid State 1 ampere steady state, 10 amperes inrush at 60°C 2.5 volts typical at 1 ampere

Protected Greater than 1500 volts RMS 100 megohms min.

Description

The TSA141300 utilizes unique circuitry to provide random start and lockout delay in one small, rugged, inexpensive package. When connected as shown, the TSA141300 in a multiple unit situation, prevents all units from starting at one time with its random start feature. The TSA141300 also prevents the compressor from recycling rapidly which could result in a lock rotor condition. This lockout delay is initiated at the end of each operation of the compressor. A momentary loss of power would also initiate the lockout delay.

Operation

Random Start: With the thermostat closed, when line voltage is applied to system, a time delay is initiated. At the end of this delay, the compressor relay will be energized. (Random Start delay is equal to lockout delay.)

Anti-Short Cycle: At the end of each cycle, when the thermostat opens, a lockout delay is initiated which prevents re-energization of the compressor relay during this period. If the thermostat is closed after the time delay is completed, the compressor relay will energize Immediately.

Loss of Power: If there is a momentary loss of power, the lockout will again be initiated preventing the compressor relay from energizing for the duration of the delay.

Features & Benefits

- Lockout Delay—prevents rapid recycling of compressor in air conditioning, refrigeration, and heat pump equipment
- Random Start Delay—provides staggered start up of multiple units
- Fast response time
- All Solid State with Encapsulated Circuitry

Mechanical

Mounting Package Termination

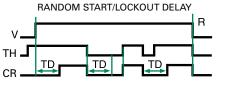
Dimensions

Environmental

Operating/Storage Temperature Humidity Surface mount with one #8 or #10 screw Molded housing with encapsulated circuitry 0.25 in. (6.35 mm) male quick connect terminals **H** 50.80 mm (2.0"); **W** 50.80 mm (2.0"); **D** 30.70 mm (1.21")

-40°C to +80°C/-40°C to +85°C 95% relative, non-condensing

Function Diagram



V = Input Voltage TH = Thermostat CR = Compressor Relay TD = Time Delay R = Reset

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