Single Speed Fan Board R60B

SPECIFICATION

Introduction

The 1 speed fan control board (R60B) is an electronic fan control board which provides, in one device, control of a line voltage fan motor. The primary purpose is to control the fan motor used in air-conditioning & heating systems. The control board is powered by 24VAC input and will accept a 24VAC fan signal from the thermostat.

Features

The control board has a fixed 1 second fan ON delay. There is a fixed 45 seconds post fan OFF delay in which the relay will be energized for another 45 seconds after the thermostat fan signal (G) is turned off. Screw-in terminals will be used for R, C and G connections. Fan connections will be quick connects located on the relay.

Electrical specification

- Nominal Input : 24 VAC
- Operating Input range : 18-30VAC
- Fan Outputs : 12 FLA (30 LRA) at 240 VAC

Mechanical specification

- PCB Material: CEM 1
- Temperature
  - i. Operating Temperature: -40 ^{o}F to +158 ^{o}F (-40 ^{o}C to +70 ^{o}C).
  - ii. Storage temperature: -40 ^{o}F to +185 ^{o}F (-40 ^{o}C to +85 ^{o}C).
- Humidity
  - i. Operating: 10% to 95% non-condensing, -22 ^{o}F to +104 ^{o}F (-30 ^{o}C to +40 ^{o}C).
  - ii. Storage: 10% to 95% non-condensing.
- Vibration

  No damage from 5G sinusoidal acceleration at 10 to 150 Hz.

- Mechanical impact

  No damage or miss-operation when the sheet metal to which the device is mounted is hit with a 3 inch ball with 3 foot pounds.

- Operating Life

  The relays are capable of 100K cycles at full load.

Dimension

PCB Dimension: 2.5 x 2.5 ”

Terminals

Line voltage connections are .250 x 0.032 quick connect terminals on top of the relay.

4 blank quick connects are located on the board for unused fan speed wires.

Quick connect terminals for R and C input.

Screw-in terminal connections for a thermostat.
- 24VAC Hot input (R)
- 24VAC Neutral Input (C)
- Fan Input (G)

Wiring Diagram