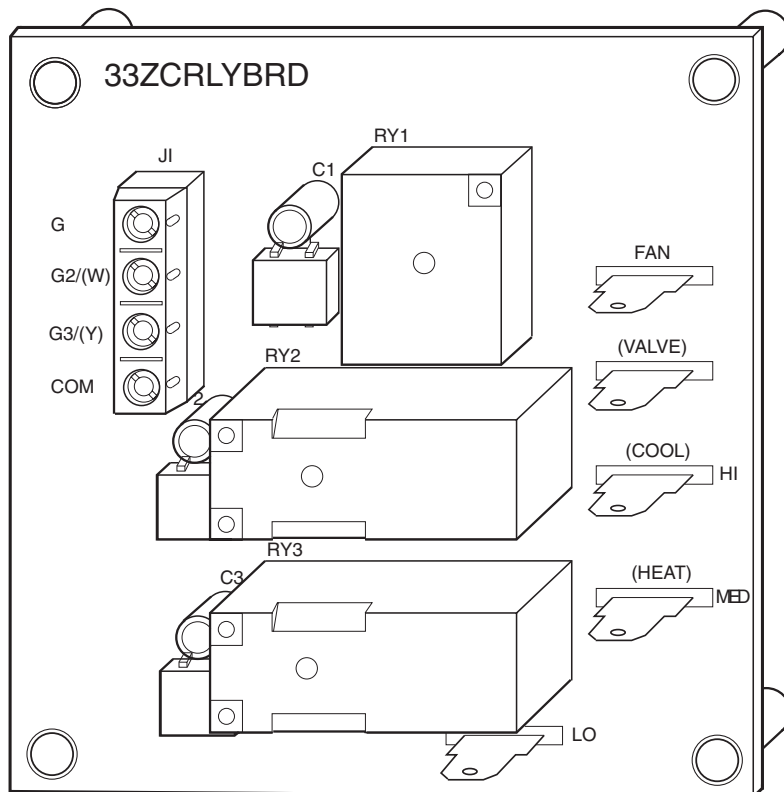




Product Specification

Fan Coil Relay Board

Part No. 33ZCRLYBRD



The fan coil relay board is used in conjunction with the fan coil controller to connect the controller with a single-speed or multispeed fan. Additionally, the fan coil relay board can be used to connect the fan coil controller to up to two line voltage valves.

A separate fan coil relay board is used for each application. One fan coil relay board is required to interface to a fan coil motor and a second is required to interface with the line voltage valve actuators. Fan coils with two or more fan motors use a fan coil relay board for each fan motor. A maximum of three fan coil relay boards can be wired to one fan coil controller.

Features/Benefits

The fan coil relay board offers the following advantages:

- eliminates the need to install separate control relays for fan speeds and line voltage valves
- ability to interface to either multi-speed fans or 2 position line voltage valves
- factory shipped as a PC board with four 1/2-in. stand-offs for field mounting
- small size saves space
- quick-connect 1/4 in. male type crimp lugs for line voltage connections
- screw terminal connections for Class II low voltage wiring connections to fan coil controller

Specifications



Wiring connections

Low voltage, Class II control field wiring is 18 to 20 AWG (American Wire Gage) stranded type wire, rated at 600 vac for all control wiring connections.

Line voltage field wiring is 18 AWG (or larger, as required by the application or NEC codes) TFFN* stranded type wire, rated at 600 vac for all line voltage control device output connections.

Low voltage control connections

- G — Fan commanded on or two-pipe valve on
- G2/(W) — Fan medium speed or four-pipe heating on
- G3/(Y) — Fan high speed or four-pipe cooling on
- COM — Common

Control device outputs

FAN — Fan common or valve common (two-pipe applications only)

(VALVE) — Single-speed fan enable, two-pipe valve enable or four-pipe valve common

HI(COOL) — Fan high speed or four-pipe cooling valve enable

MED(HEAT) — Fan medium speed or four-pipe heating valve enable

LO — Fan low speed

Power supply

All power is supplied from the fan coil controller.

Electrical ratings

Control Voltage Connections:

24 vac Class II

Line Voltage Fan Motor Contacts:

120 to 277 vac @ 10 A (2000 VA maximum)

Line Voltage Valve Contacts:

120 to 277 vac (25 VA maximum)

Operating characteristics

Three-speed fan: The output relays are sequenced and interlocked to ensure

that only a single speed is energized at a given time. A single fan coil relay board can control three fan speeds.

Line voltage valves: A single fan coil relay board can control one or two line voltage valves.

Environmental ratings

Operating: 50 to 104 F (10 to 40 C)

Humidity: 0 to 95% RH,

Non-Condensing

Appearance

Circuit board with attached stand-offs

Dimensions

Height: 2.85 in.

Width: 2.7 in.

Depth: 1.286 in.

Agency Approvals

UL 873

*Thermoplastic Insulation, Flexible Fixture wire, Nylon jacket.

Dimensions

