



R4222B,N,V; R8222B,D,N,V; R4228B,D; R8228B,D Switching Relays

INSTALLATION INSTRUCTIONS

APPLICATION

The R4222 and R8222 are general purpose relays for use in refrigeration and air conditioning equipment, vending machines, and other applications requiring general purpose switching. The R4228 and R8228 Relays are for heavy-duty applications.

Switching configurations and contact ratings are as follows:

- R4222B, R8222B: Power pole (12 amps full load at 120 Vac), SPDT switching.
- R4222D, R8222D: Power pole (12 amps full load at 120 Vac), DPDT switching.
- R4222N, R8222N: Pilot duty (see pilot duty poles below), DPDT switching.
- R4222V, R8222V: One power pole (1, 2, 3) and one pilot duty pole (4, 5, 6), DPDT switching.
- R4228B, R8228B: Power pole (16 amps full load at 120 Vac), SPDT switching.
- R4228D, R8228D: Power pole (25 amps resistive at 277 Vac), DPST switching, normally open.

NOTE: R4222 and R4228 models have line voltage coils; R8222 and R8228 have low voltage coils.

SPECIFICATIONS

Terminals:

R4228 and R8228D; R4222 and R8222B,D,N,V: Single quick connect on poles, double quick connect on coil terminals.
R4228B, R8228B: Double quick connects per pole, double quick connect on coil terminals.

Contact Ratings:

Power Poles (per pole, amps)^a

	120 Vac	208/240/277 Vac	480 Vac
Full Load ^a	12	6	3
Locked Rotor	60	36	18
Resistive ^b	15	15	10

R4228B, R8228B	120 Vac	240 Vac	277 Vac	480 Vac
Full Load	16	12		5
Locked Rotor	96	72		30
Horsepower	1	2		1-1/2
Resistive ^b			25	15

R4228D, R8228D	120 Vac	240 Vac	277 Vac	480 Vac
Resistive only ^b			25	10

^a Also rated 1/2 hp at 120, 240, and 480 Vac.

^b 0.75 power factor load.

Pilot Duty Poles for R4222 and R8222 only:

Minimum: 3 VA at 24, 120, 240, and 480 Vac or Powerpile gas valve.

Maximum: 24 VA at 24 Vac, 125 VA at 120, 240, 480 Vac.

Resistive: 3 amps at 480 Vac (0.75 power factor).

Coil Ratings:

All coils meet Underwriters' Laboratories, Inc. requirements for Class B coils. If coil voltages other than those listed below are desired, contact your local Resideo representative for more information.

	24 Vac ^a	120, 208/240, 277, 480 Vac
Inrush VA (maximum)	20.0	20
Sealed VA (maximum)	9.5	10

^a Coils are rated for 50/60 Hz. Data is at 60 Hz.

Current Draw:

0.4 amp at 24 Vac

Pickup Voltage:

75 percent of rated coil voltage.

Accessories:

1. Case and Cover Assembly: 135872A.
2. Plug-in Receptacle and Retaining Bail: 4074BVJ.
3. Receptacle only: Part No. 135959.
4. Bail only: Part No. 135887.
5. Adapters for converting 1/4 inch quick-connects to No. 6 screw terminals (bag or eight): 137881A.



INSTALLATION

! CAUTION

1. Installer must be a trained, experienced technician.
2. Disconnect power supply before beginning installation.
3. Always conduct a thorough checkout when installation is complete.

Location

Mount the relay on a flat, solid surface as close as possible to the equipment being controlled. The relay may be mounted in any position except with the terminals pointed down. Secure in place with two screws through holes or slots in the mounting base. See Fig. 1 for mounting dimensions.

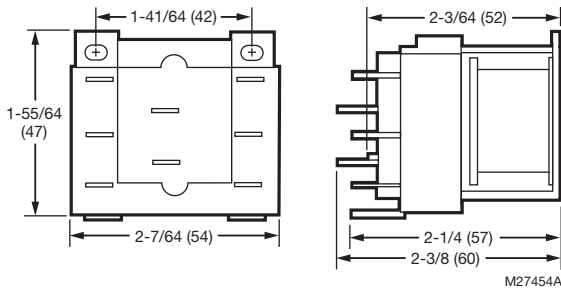


Fig. 1. Dimensions in inches (mm).

Wiring

! CAUTION

Disconnect power supply before connecting wiring to prevent electrical shock and equipment damage.

All wiring must comply with local codes and ordinances. Crimp female quick-connects to the system wires and attach to the male quick-connect terminals of the relay. The relay has molded terminal numbers and circuit diagram for easy identification when wiring.

Do not exceed contact and coil ratings when wiring into system.

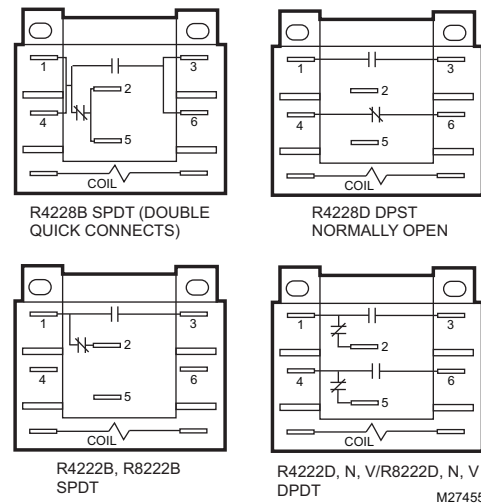


Fig. 2. Internal schematic and terminal locations.

CHECKOUT

Operate the relay and controlled equipment to make sure that the relay pulls in when the coil is energized and that controlled equipment operates as intended.



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