

## 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. R4228 and R8228 are heavy-duty relays with the same application.

A variety of switching configurations is available. Refer to Table I and II. Contacts are available for Powerpile (millivoltage), pilot duty, and power pole applications. R4222 and R4228 models have line voltage; R8222 and R8228 models have low voltage coils.

## INSTALLATION

### CAUTION

1. Installer must be a trained, experienced service 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.

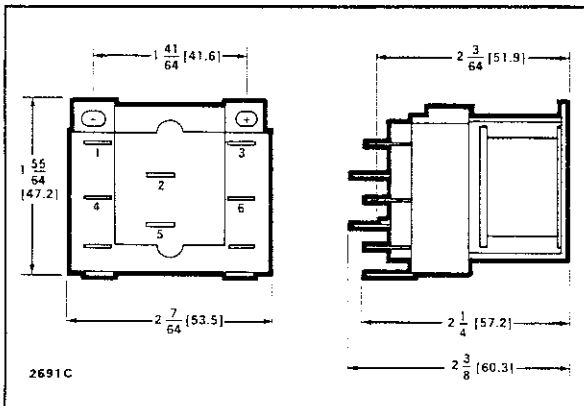


Fig. 1—Dimensions in inches [millimetres in brackets].

## WIRING

Disconnect power supply before making wiring connections to prevent possible electric 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. Fig. 2 shows the terminal location and circuits of all models.

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

TABLE I

CONTACT CONFIGURATIONS (COIL DE-ENERGIZED) <sup>a</sup>	R4222, R8222 SUFFIX LETTERS	
	POWER POLE RATED	PILOT DUTY RATED
Spst, normally open	A	K
Spdt	B	L
Dpst, normally open <sup>b</sup>	C	M
Dpdt <sup>c</sup>	D	N
Spst, normally closed	E	P
Dpst, one normally open and one normally closed	F	Q
Dpst, normally closed	G	R
Spdt and spst, normally open <sup>d,e</sup>	H	S
Spdt and spst, normally closed	J	T
Dpst, normally closed (one power and one pilot duty) <sup>f</sup>	Z*	

\*Models with silver colored power terminals and brass colored pilot duty terminals.

TABLE II

CONTACT CONFIGURATIONS (COIL DE-ENERGIZED) <sup>a</sup>	R4228, R8228 SUFFIX LETTERS
	POWER POLE ONLY
Spst, normally open (double quick-connects)	A
Spdt (double quick-connects)	B
Spst, normally open	C
Dpst, normally open	D

<sup>a</sup> Refer to Fig. 2 for terminal location and identification.

<sup>b</sup> R4222U, R8222U available with one pilot duty pole and one power pole.

<sup>c</sup> R4222V, R8222V available with one power pole and one pilot duty rating.

<sup>d</sup> W model available with spdt power pole and spst pilot duty pole.

<sup>e</sup> Y model available with spdt pilot duty pole and spst power pole.

<sup>f</sup> Z model available with spst power pole and spst pilot duty pole.

CONTACT RATINGS: R4222 and R8222 contacts are available for pilot duty, power pole, or millivoltage applications. R4228 and R8228 contacts have power pole ratings only.

Power Poles (per pole, amperes)—

R4222 R8222	120V AC	208/240V AC 277V AC	480V AC
	Full Load <sup>a</sup>	12	6
Locked Rotor	60	36	18
Resistive <sup>b</sup>	15	15	10

<sup>a</sup> Also rated 1/2 hp at 120, 240, and 480V ac.

<sup>b</sup> 0.75 power factor load.

Contact Ratings for R4228, R8228—

R4228A,B R8228A,B	120V AC	240V AC	277V AC	480V AC
Full Load	16	12		5
Locked Rotor	96	72		30
Horsepower	1	2		1-1/2
Resistive			25	15

R4228C,D R8228C,D				
Resistive Only			25	10

Pilot Duty Poles for R4222 and R8222 only.

Minimum: 3 VA at 24, 120, 240, and 480V ac.

Maximum: 25 VA at 24V ac, 125 VA at 120, 240, and 480V ac.

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

Millivoltage: Available upon request with standard millivoltage ratings. Contact your local Honeywell representative for additional information.

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 Honeywell representative for additional information.

	24V AC <sup>a</sup>	120, 208/240, 277, 480V AC <sup>a</sup>
Inrush VA (maximum)	20.0	20
Sealed VA (maximum)	9.5	10
Current Draw	0.4	—

Pickup voltage: 75 percent of rated coil voltage.

<sup>a</sup>Coils are rated for 50/60 Hz. Data is at 60 Hz.

ACCESSORIES:

- 4074BVJ plug-in receptacle and retaining bail.
- 135872A case and cover assembly.
- 135959 receptacle only.
- 135887 bail only.
- 137881A adapters—for converting 1/4 inch quick-connects to No. 6 screw terminals (bag of eight).

CHECKOUT

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

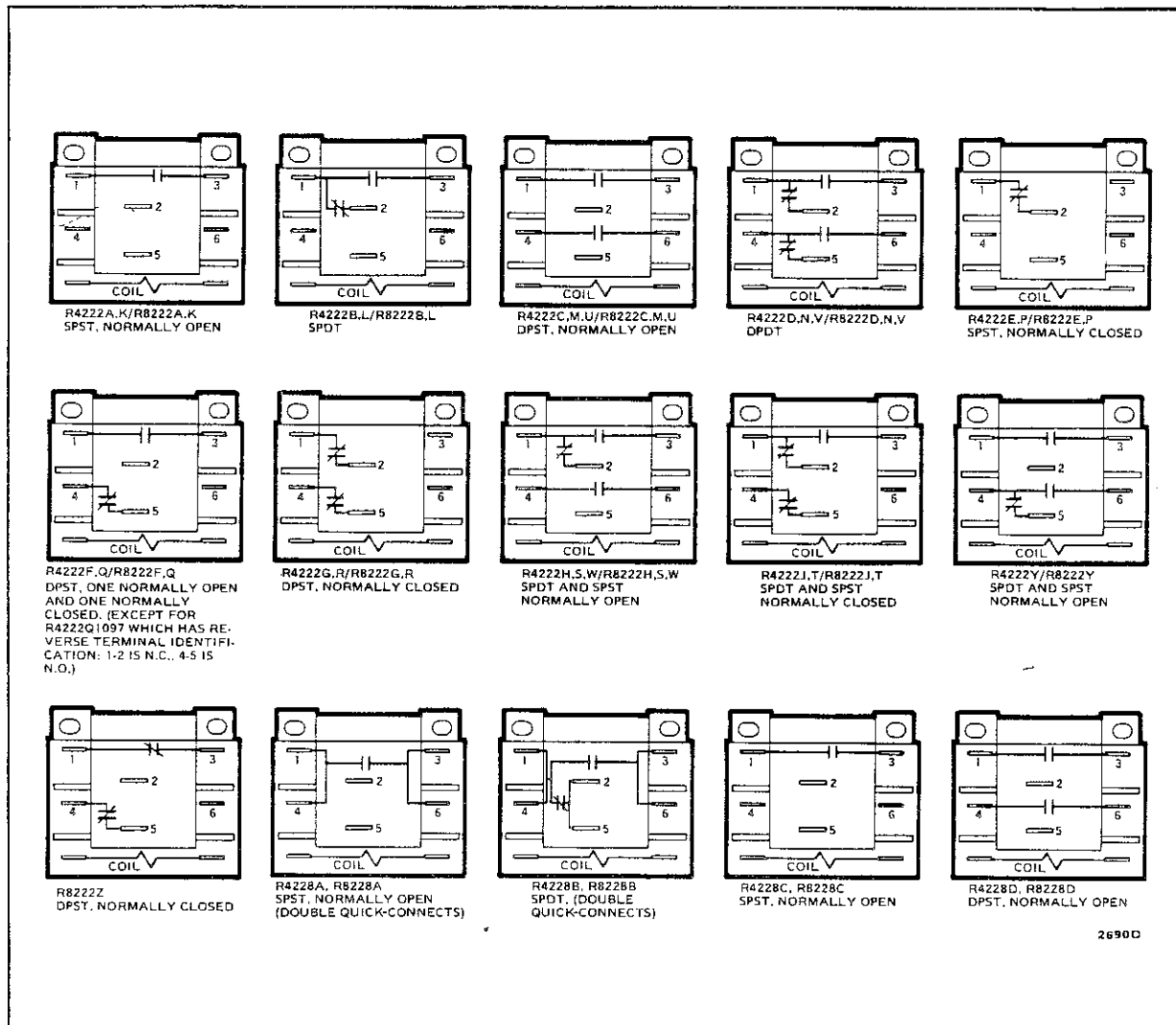


Fig. 2—R8222/R4222, R8228/R4228 circuit and terminal identification.