



R4222A-H, J-N, P-W, Y; R8222A-H, J-N, P-W, Y, Z; R4228A, B, C, D; R8228A, B, C, 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. R4228 and R8228 are heavy-duty relays with the same application.

A variety of switching configurations are available. Refer to Tables 1 and 2. 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.

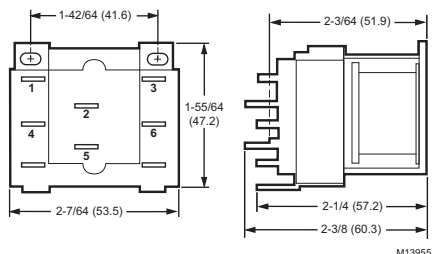


Fig. 1. Dimensions in inches (millimeters in brackets).

Table 1. Switching configurations for R4222 and R8222

Contact configurations (coil de-energized) ^a	R4222, R8222 suffix letters	
	Power pole rated	Pilot duty rated
Spst, normally open	A	K
Spdt	B	L
Dpst, normally open ^b	C	M
Dpdt ^c	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 ^{d,e}	H	S
Spdt and spst, normally closed	J	T
Dpst, normally dosed (one power and one pilot duty) ^f	Z*	

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

Table 2. Switching configurations for R4228 and R8228

Contact configurations (coil de-energized) ^a	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

^aRefer to Fig. 2 for terminal location and identification.

^bR4222U, R8222U available with one pilot duty pole and one power pole.

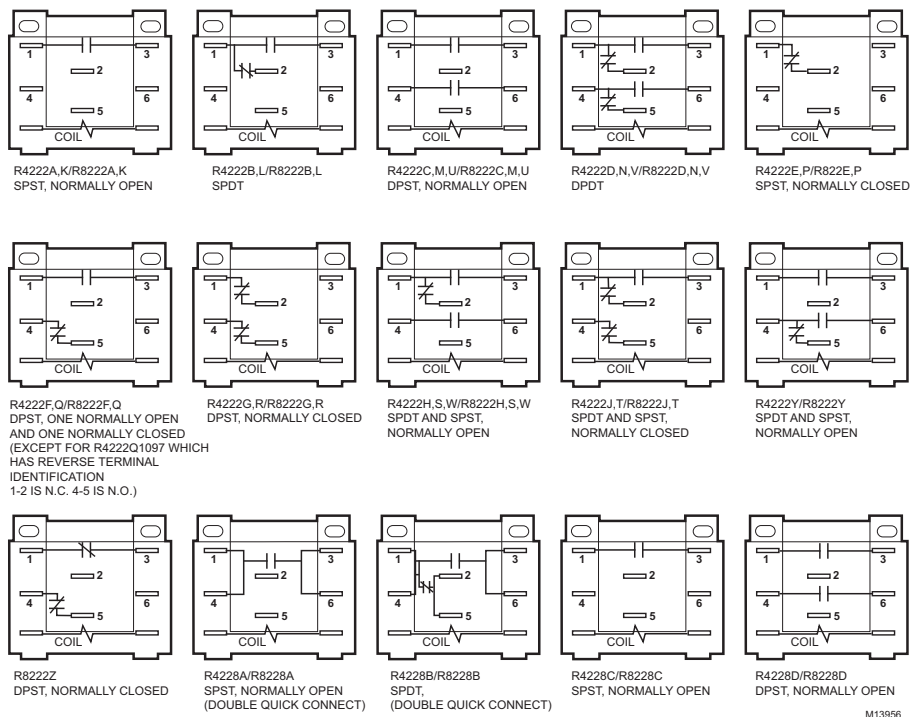
^cR4222V, R8222V available with one power pole and one pilot duty rating.

^dW model available with spdt power pole and spst pilot duty pole.

^eY model available with spdt pilot duty pole and spst power pole.

^fZ model available with spst power pole and spst pilot duty pole.





M13956

Fig. 2. R8222/R422, R8228/R4228 circuit and terminal identification.

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 a 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 the system.

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. See Tables 3 and 4.

Table 3. Power poles for R4222 and R8222 (per pole, amperes)

R4222, R8222	120 Vac	208/240 Vac, 277 Vac	480 Vac
Full load ^a	12	6	3
Locked rotor	60	36	18
Resistive ^b	15	15	10

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

^b 0.75 power factor load.

Table 4. Contact ratings for R4228, R8228

R4228A,B and R8228A,B	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			25	15
R4228C,D and R8228C,D				
Resistive only			25	10

Pilot duty poles for R4222 and R8222 only

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

Maximum: 25 VA at 24 Vac; 125 VA at 120, 240, and 480 Vac.

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

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

Coil Ratings

All coils meet Underwriters Laboratories Inc. requirements for Class B coils. If coil voltages other than those listed in Table 5 are desired, contact your local Resideo representative for additional information.

Table 5. Coil ratings for R4222, R4228, R8222, and R8228

	24 Vac ^a	120, 208/240, 277, 480 Vac ^a
Inrush VA (maximum)	20	20
Sealed VA (maximum)	9.5	10
Current draw	0.4	–

Pickup voltage: 75 percent of rated call voltage.

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

ACCESSORIES

1. 135959 receptacle only.
2. 135887 bail only.

CHECKOUT

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

R4222A-H, J-N, P-W, Y; R8222A-H, J-N, P-W, Y, Z; R4228A, B, C, D; R8228A, B, C, D



Resideo Technologies, Inc.
1985 Douglas Drive North, Golden Valley, MN 55422
1-800-468-1502

www.resideo.com 69-0014-07 M.S. Rev. 05-20 | Printed in United States

© 2020 Resideo Technologies, Inc. All rights reserved.
This product is manufactured by Resideo Technologies, Inc. and its affiliates.