

# Relays

## Relay - General Purpose



90-293Q

- Enclosed fan relays used for switching single or two speed fan motors, solenoids, relays, resistive loads, heating and cooling applications and general purpose switching
- Compact, totally enclosed design
- Class B coil insulation
- 1/4" quick connect termination coils
- Continuous duty
- Contact Rating: 125/250 VAC

Coil Voltage AC (50/60Hz)	FLA @ 250VAC	LRA @ 250VAC	Resistive Amps @ 250VAC	Coil Data		Inrush VA	Brand	Part Number
				Nominal Current MA	Nominal VA Sealed			
<b>Single Pole Normally Open (SPNO)</b>								
24	8	25	16	125	3	4	White Rodgers	90-290Q
120	8	25	16	25	3	4	White Rodgers	90-291Q
240	8	25	16	12.5	3	4	White Rodgers	90-292Q
<b>Single Pole Double Throw (SPDT)</b>								
24	8	18	8	125	3	4	White Rodgers	90-293Q
120	8	18	8	25	3	4	White Rodgers	90-294Q
240	8	18	8	12.5	3	4	White Rodgers	90-295Q

## Relay - General Purpose - Heavy Duty



90-370

- Heavy duty enclosed fan relays operate in any position and are ideal for air conditioning, heating, appliances, fan control and general purpose switching
- Compact, totally enclosed design
- Class B coil insulation
- 1/4" quick connect termination coils
- Continuous duty
- Contact Rating: 125/250 VAC

Coil Voltage AC (50/60Hz)	FLA @ 125VAC	FLA @ 250VAC	Resistive Amps @ 277VAC	Coil Data		Inrush VA	Brand	Part Number
				Nominal Current MA	Nominal VA Sealed			
<b>Single Pole Double Throw (SPDT)</b>								
24	12	8	18	125	3	4	White Rodgers	90-370
120	12	8	18	25	3	4	White Rodgers	90-372
240	12	8	18	12.5	3	4	White Rodgers	90-374
<b>Single Pole Double Throw Isolated Contacts (SPNO / SPNC)</b>								
24	12	8	18	125	3	4	White Rodgers	90-380
120	12	8	18	25	3	4	White Rodgers	90-382
240	12	8	18	12.5	3	4	White Rodgers	90-384

**White**  
**Rodgers**

# Relays

## Relay - General Purpose - Switching



90-340

- Semi enclosed switching relays suitable for vending machines, appliances, fan controls, heating and air conditioning applications and general purpose switching
- Continuous duty
- Power or pilot duty

# Honeywell

Volts	FLA	LRA	Resistive Amps	Terminals 1-2-3	Terminals 4-5-6	Brand	Part Number
<b>Single Pole Double Throw (SPDT)</b>							
24	12A @ 120VAC	60A @ 120VAC	20.8A @ 120,208,240,277VAC 10A @ 480VAC	Power	None	Honeywell	R8222B1067
120	6A @ 208,240,277VAC	35A @ 208,240,277VAC		Power	None	Honeywell	R4222B1082
208/240	3A @ 480VAC	18A @ 480VAC		Power	None	Honeywell	R4222B1090
<b>Double Pole Double Throw (DPDT)</b>							
24	12A @ 125VAC 6A @ 250,277VAC	60A @ 125VAC 35A @ 250,277VAC	15A @ 277VAC	Power	Power	White Rodgers	90-340
115/120				Power	Power	White Rodgers	90-341
208/240				Power	Power	White Rodgers	90-342
24	12A @ 120VAC 6A @ 208,240,277VAC 3A @ 480VAC	60A @ 120VAC 35A @ 208,240,277VAC 18A @ 480VAC	20.8A @ 120,208,240,277VAC 10A @ 480VAC	Power	Power	Honeywell	R8222D1014
120				Power	Power	Honeywell	R4222D1013
208/240				Power	Power	Honeywell	R4222D1021
<b>Double Pole Double Throw (DPDT) - Pilot Duty</b>							
24	12A @ 120VAC 6A @ 208,240,277VAC 3A @ 480VAC	60A @ 120VAC 35A @ 208,240,277VAC 18A @ 480VAC	20.8A @ 120,208,240,277VAC 10A @ 480VAC	Power	Pilot Duty	Honeywell	R8222V1003

## Add-A-Relay - Switching - Enclosed



- Base with a bushing, locknuts and position locking plate to mount in standard electric box with 1/2" knock out
- Has double break silver alloy contacts and is completely enclosed
- Operates in any position

Volts	Description	Brand	Part Number
120	Type 129000AR Add-a relay	White Rodgers	90-124

# White Rodgers

# Relays

## Relay - Hydronic - Switching



- For 24V thermostat control of line voltage devices
- Enclosed intermediate switching relay
- Includes integral transformer
- Relay Coil Current: 0.35A

Control Circuit	Volts (50/60Hz)	Switching Action	Coil Voltage (Vac @ 50/60Hz)	Brand	Part Number
2 or 3 Wire	120	DPDT	24	Honeywell	R182C1051

## Relay - Hydronic - Switching



- Provides intermediate switching of a line voltage device from a low voltage controller
- Integral transformer provides low voltage power for control circuit

Electrical Connections (main)	Electrical Rating Primary Voltage	Auxiliary Contacts	Switching Action	Brand	Part Number
2 Wire	120V, 50/60Hz	-	SPST. For switching one line voltage load	Honeywell	RA89A1116
2 Wire	240V, 50Hz, 60Hz	50VA @ 24 VAC	DPST. For switching two line voltage loads that have a common power source. One pole line voltage, the other pole low or millivoltage	Honeywell	RA832A1074
2 Wire	240V, 50Hz, 60Hz	50VA @ 24 VAC	DPST. For switching two line voltage loads that have a common power source. One pole line voltage, the other pole low or millivoltage	Honeywell	RA832A1082

## Relay - Hydronic - Switching



- Switching relay with 24V controller provides intermediate switching of line and low voltage devices from a line or low voltage controller and is typically applied in Hydronic heating systems
- High load switching capability
- Troubleshooting LED
- Push to test button
- Replaceable transformer fuse
- Relay for use with external 24VAC or 24Vdc supply, with line voltage control, or with internal 24V transformer supply
- Secondary of transformer protected by replaceable 1A automotive fuse

Electrical Connections (main)	Electrical Rating Primary Voltage	Switching Action	Transformer Primary Rating	Transformer Secondary Rating	Brand	Part Number
No. 8 captivated wire clamp screw terminals	120VAC, 60Hz	SPDT, plus PowerPile rated low voltage SPST relay	120VAC, 60Hz	24VAC, 12VA max., 9VA available for external load	Honeywell	RA889A1001

# Honeywell

# Electric Heat Relays

## Relay - Electric Heat - Quiet

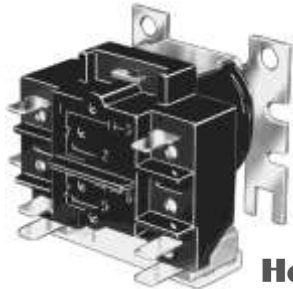


**Honeywell**

- Deluxe low voltage control system for electric resistance heating equipment such as baseboard, ceiling cable, duct and fan forced heaters
- For use with 2 wire 24 Vac thermostats
- Quiet operation with thermostat cycle (4 to 6 cycles per hour for precision room temperature control)
- Thermally-operated Micro Switch™ makes and breaks in about 75 seconds to directly switch up to a 6,000 W load
- Mounts in any direction and includes 1/2" male conduit bushing, 18" line leadwire and 7 1/2" low leadwire

Volts	Number of Switches	Brand	Part Number
240	1	Honeywell	R841C1029
208/240	1	Honeywell	R841C1169

## Relay - Electric Heat - Normally Closed



**Honeywell**

- Normally closed relays and contactors for load control systems
- Close and leave load operating in case of wiring or control problem, or relay malfunction
- Consume no power while load is powered; require power only to shed load
- Operate directly from a pilot duty rated relay in the load control system

Volts	Switching	Brand	Part Number
24	DPST	Honeywell	R8229A1021

## Relay - Fan

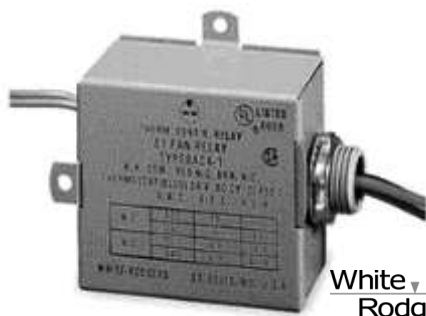


**Honeywell**

- Provide general purpose and heavy duty switching for refrigeration and air conditioning equipment, appliances, vending machines and similar applications
- Molded terminal numbers and circuit diagram on top of relay provide easy identification for wiring and checking system operation
- Untapped coil assures cooler operation
- Laminated magnet construction for higher efficiency
- Base designed for easy replacement and includes quick connect coil terminals

Volts	Switching	Brand	Part Number
24	SPDT	Honeywell	R8225A1017
24	DPST, N.O.	Honeywell	R8225D1003

## Relay - Fan



**White  
Rodgers**

- For 24 volt AC control of blowers and other line voltage loads on heating, cooling or heating/cooling systems where 24V or 120V power supply is already available
- Compact size - 1/2" conduit hub permits mounting to standard junction box or can be mounted to a flat surface
- Permits control of single or two speed fan motor

Voltage	Switch	Coil Current	Brand	Part Number
24	SPDT	0.28A	White Rodgers	8A04-1
120	SPDT	0.28A	White Rodgers	8A04A-1

# Fan Relays

## Relay/Transformer Combination

- Provides low voltage control of line voltage fan motors and auxiliary circuits in heating, cooling or air conditioning systems
- Transformer powers low voltage control systems and provides overload protection
- Mounts on standard 4" x 4" junction box
- Low voltage terminal board provides convenient connections for thermostat & heating and cooling equipment wiring
- UL Listed, CSA Certified

Application	Supply Voltage	Secondary Voltage	Switching Action	Motor Rating @ 120VAC		Brand	Part Number
				Full Load	Locked Rotor		
Use with F50 electronic air cleaner, humidifier and blower motor. NEMA standard transformer. Includes relay enclosure.	120 Vac	26.5 V @ 40 VA	DPDT	12.0A	72A	Honeywell	<b>R8239B1043</b>
Single or two speed fan	120 Vac	26.5 V @ 40 VA	SPDT	12.0A	72A	Honeywell	<b>R8285A1048</b>
Hydronic applications. Use with SV9600 and other systems requiring 50 VA.	120 Vac	26.5 V @ 50 VA	DPST (one power rated, one pilot duty)	12.0A	72A	Honeywell	<b>R8285D5001</b>
Single or two speed fan or for A/C installs	120 Vac	24 V @ 35 VA	SPDT	8.0A / 14.0A	48.0A / 84.0A	White Rodgers	<b>8A05A-101</b>



R8239

**Honeywell**



R8285

**Honeywell**



8A05A-101

**White  
Rodgers**