

Hydronic Switching Relays

R182 Hydronic Switching Relay

Enclosed intermediate relays for 24 volt thermostat control of line voltage devices.

Application: For 24 V thermostat control of line voltage devices

Dimensions, Approximate: 5 1/4 in. long x 4 1/4 in. wide x 3 in. deep
(133 mm long x 108 mm wide x 77 mm deep)

Thermostat Compatibility: Low voltage 2 or 3-wire

Coil Ratings

Voltage: 24 Vac, 50/60 Hz

Current: 0.35A

Contact Electrical Ratings

120 Vac AFL: 7.4A

120 Vac ALR: 44.4A

240 Vac AFL: 3.7A

240 Vac ALR: 22.2A

Transformer Primary Rating: 120 Vac, 50/60 Hz

Transformer Secondary Rating: 24 Vac, 50/60 Hz

Approvals:

Canadian Standards Association: Certified

Underwriters Laboratories, Inc. Listed: File No. E4436, Guide No. XAPX

	Product Number	Electrical Connections (Control Circuit)	Electrical Ratings: Primary Voltage	Switching Action	Description
*	R182C1051	2 or 3-wire	120V, 50/60 Hz	DPDT	Switching relay with internal transformer, two line voltage SPDT relays
* TRADELINE models • SUPER TRADELINE models					

R856 Control Center



Provides 24 volt control of line voltage motors, fans, blowers, or pumps up to 1 hp.

- Integral 45 VA transformer to supply low voltage power for the system.
- Low voltage terminal strip for easy thermostat and panel connections.

Application: Fan relay and transformer in an enclosure.

Dimensions, Approximate: 7 1/8 in. high x 4 1/2 in. wide x 3 5/16 in. deep (181 mm high x 114 mm wide x 84 mm deep)

Contact Electrical Ratings

120 Vac AFL: 14.0A N.O.; 10.0A N.C.

120 Vac ALR: 84.0A N.C.; 80.0A N.C.

Horsepower: 3/4 hp N.O.; 1/2 hp N.C.

Approvals:

Canadian Standards Association: Certified: File No. LR95329-1

Underwriters Laboratories, Inc. Listed: File No. E4436, Vol. 6 Sec. 9

Product Number	Coil Ratings				Electrical Ratings: Primary Voltage	Switching Action	Description
	Voltage	Current	(Inrush)	(Sealed)			
R856B1002	24 Vac	0.22A	11 VA	6 VA	120V, 60 Hz	SPST	120V, 60 Hz Fan Relay with Spst switching

Hydronic Switching Relays

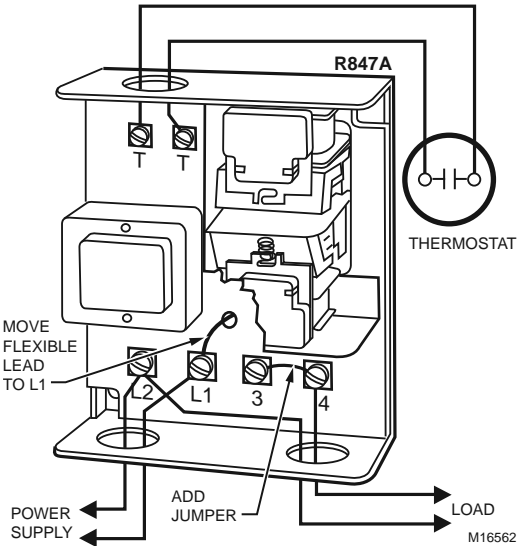
R847 Heavy Duty Relay



Designed for control of relatively heavy duty 120 or 240 Vac electrical loads such as cooling compressors.

- Internal, flexible leads permit SPST or DPST switching.

R847A wired to break one side of the circuit with SPST switching.



Application: Enclosed switching relay with internal transformer that provides 24V power for control circuit. It provides switching for high current load applications.

Dimensions, Approximate: 5 1/4 in. high x 4 1/4 in. wide x 2 3/4 in. deep (133 mm high x 108 mm wide x 70 mm deep)

Electrical Connections (main): 2-Wire

Contact Electrical Ratings

120 Vac AFL: 22A

120 Vac ALR: 100A

240 Vac AFL: 10A

240 Vac ALR: 50A

Approvals:

Canadian Standards Association: Certified: File No. LR1620

Underwriters Laboratories, Inc. Listed: File No. SA481, Guide No. SDF4

Hydronic Controls

Product Number	Coil Ratings					Electrical Ratings: Primary Voltage	Switching Action	Description
	Voltage	Current	Inrush	Sealed	Maximum Pull-in Voltage			
* R847A1085	24 Vac	0.4A	21.4 VA	8.4 VA	20	120V, 50/60 Hz	DPST or SPST	120V, 50/60 Hz Heavy Duty Switching Relay with integral transform, Dpst or Spst line voltage relays

* TRADELINE models • SUPER TRADELINE models

Hydronic Switching Relays

RA89; RA832; R845 Hydronic Switching Relay



Provide intermediate switching of a line voltage device from a low voltage controller.

- Integral transformer provides low voltage power for control circuit.

Application: Provide intermediate switching of a line voltage device from a low voltage controller.

Dimensions, Approximate: 5 1/4 in. high x 4 1/4 in. wide x 2 5/16 in. deep (133 mm high x 108 mm wide x 59 mm deep)

Electrical Connections (Control Circuit): 2-Wire

Electrical Rating: Maximum Input: 5.0 W

Transformer Primary Rating: 120 Vac, 50/60 Hz

Transformer Secondary Rating: 24 Vac

Coil Ratings:

Voltage: 24 Vac

Current: 0.4A

Thermostat Compatibility: Low voltage (Class 2) 2-wire

Temperature Range: 115 F maximum ambient for 60 Hz. 105 F Max.

Ambient for 50 Hz. (46 C maximum ambient for 60 Hz. 41 C maximum ambient for 50 Hz.)

Includes: Integral transformer, enclosure

Approvals:

Canadian Standards Association: Certified: File No. LR1620

Underwriters Laboratories, Inc. Listed: File No. E4436, Guide No. XAPX

Contact Electrical Ratings								
	Contacts Maximum Connected Loaded (120-240 Vac)	Main Contacts		Secondary Contacts				
		120 Vac	240 Vac	120 Vac	240 Vac	DC Rating	Millivolt Rating	Pilot Duty Rating
R845	2000 VA	7.4A AFL; 44.4A ALR; 10A Resistive	3.7A ALF; 22.2A ALR; 6.0A Resistive	3A ALF; 18A ALR	2A AFL; 12A ALR	—	—	50 VA @ 24V
RA832	2000 VA	7.4A AFL; 44.4A ALR; 10A Resistive	3.7A ALF; 22.2A ALR; 6.0A Resistive	—	—	1A @ 12 Vdc	300 mA min. @ 750 mV	50 VA @ 24V
RA89	—	10.2A AFL; 61.2A ALR; 10A Resistive	5.1AA ALF; 30.6A ALR; 6.0A Resistive	—	—	—	—	—

Product Number	Electrical Ratings: Primary Voltage	Switching Action	Description
* R845A1030	120V, 50/60 Hz	DPST; one pole line voltage, the other line or low voltage	Switching relay with internal transformer, provides Dpst switching for hot water zone control systems, or spst control of two separate loads.
* RA832A1066	120V, 50/60 Hz	DPST; one pole line voltage, the other low voltage or millivolt	Switching Relay with internal transformer, for switching two line voltage loads having a common power source.
* RA832A1074	240V, 50/60 Hz	DPST; one pole line voltage, the other low voltage or millivolt	Switching Relay with internal transformer, for switching two line voltage loads having a common power source.
* RA89A1074	120V, 50/60 Hz	SPST	Switching Relay with internal transformer, for switching one line voltage load.

* TRADELINE models • SUPER TRADELINE models