Temperature Controllers



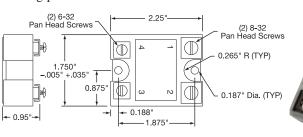


Single-Phase Solid State Relays (SSRs)

Tempco's Solid State Relays are a highly reliable alternative to mechanical or mercury contactors in high amperage or harsh environments. They offer years of trouble-free service and millions of cycles with no moving parts to wear out.

- * 1-phase normally open models current ratings from 10 Amp through 75 Amp
- * Zero-cross outputs for general applications
- * UL/cUL Recognized, CE Compliant
- * Back-to-back SCR output stage
- * AC or DC control inputs
- *** 240 or 480 Volt Outputs**

- > Select a **DC control** input relay to work with a temperature control having an SSR drive output.
- Choose an **AC** control input relay to work with a temperature control having a *mechanical relay output*.





All Items Available from Stock

	Standard Stock Single-Phase Relays					
Ordering	Nominal Output Voltage	240 VAC		480 VAC		Load
	Control Input	DC	AC	DC	AC	Current
Information		RLS02110	RLS02210	RLS04110	RLS04210	10A
Choose the Part Number of the relay from the table that matches the needs for your application. We also offer other styles of Solid State	Part	RLS02125	RLS02225	RLS04125	RLS04225	25A
	Number	RLS02145	RLS02245	RLS04150	RLS04250	50A
		RLS02175	RLS02275	RLS04175	RLS04275	75A
	Min. Control Input Current (mA)	7	5	7	5	
	Max. Line Voltage (VAC, rms)	280	280	660	660	
	Min. Line Voltage (VAC, rms)	24	24	48	48	
Relays, such as random turn	Max. Off-State Voltage (Vpeak)	±600	±600	±1200	±1200	
on; consult Tempco with your requirements. Standard lead time is stock to 3 weeks.	$ \begin{array}{c ccccc} \mbox{Max. Off-State Leakage (mA rms) } 0.25 & \mbox{On-State Voltage Drop (Vpeak) } 1.35 \\ \mbox{Static (Off-State) } \Delta v/\Delta t (V/\mu S) 500 & \mbox{Min. On-State Current (mA) } 100 \\ \mbox{Operating Temp. Range (°C) } -20 \ to +80, (°F) -4 \ to +176 & \mbox{Line Frequency Range (Hz) } 47 \ to 63 \\ \end{array} $					100



Notes:

2. AC control input = 90-280 VAC

3. Adequate heat sinking, including consideration of air temperature and flow, is essential to the proper operation of a solid state relay.

Accessories

For solid state relays Tempco offers a snap-on cover made of high impact, flame retardant polycarbonate that will provide "finger-safe" operation.

Snap-on Cover

For 1-phase SSR: RLS90001

Thermal Compound: RLS90003

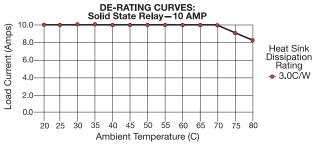
2-ounce container

Thermal Heat Transfer Pads:

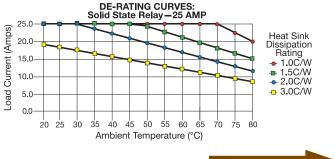
For 1-Phase SSR: RLS90004 For 3-Phase SSR: RLS90005

De-Rating Curves for Single Phase Solid State Relays

Solid state relay de-rating curves are used to determine the actual current the relay is capable of carrying vs. the ambient temperature in the enclosure. It also indicates the heat sink required to



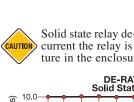
dissipate the heat the relay produces at the ambient temperature. Failure to dissipate the internally generated heat will result in solid state relay failure.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



View Product Inventory @ www.tempco.com



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