

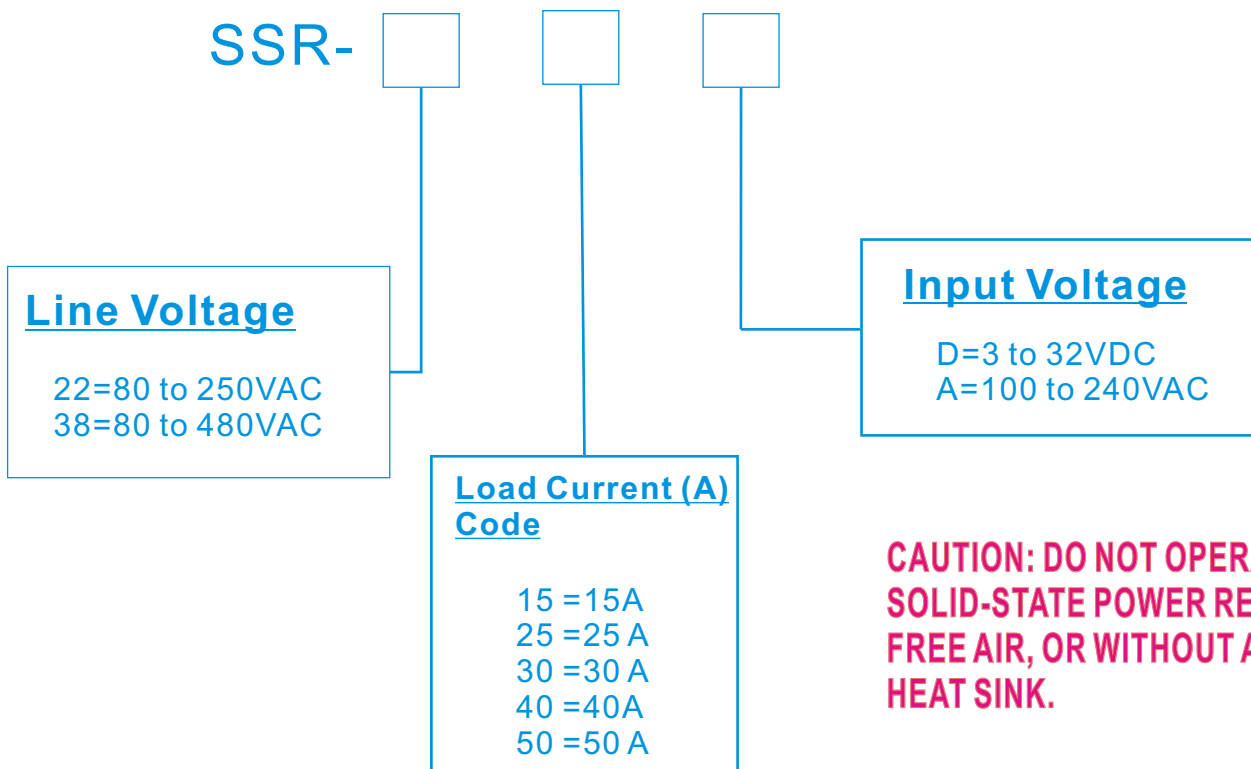
## Solid State Relays

The SSR Series of solid-state power relays provide back-to-back SCR output for severe inductive loads. They feature superior false turn - on immunity and positive turn - off at high dV/dT.



- Current ratings to 50 A
- Output voltage rating to 480 Vac
- AC or DC inputs
- 4 kV optical isolation
- Zero AC turn-on eliminates EMI/RFI
- Maintenance free, no moving parts
- Replaces mechanical contactors
- Eliminates thermal shock and extends heater life
- RC snubber network for inductive loads
- Thermal foil provided for mounting on the base of the relay to improve heat transfer
- CE approved

## Ordering Information



# SERIES SSR POWER RELAYS

## SPECIFICATIONS

### INPUTS

	Model A (AC)	Model D (DC)
Control Voltage:	100 to 240 Vac	3-32 Vdc
Drop Out Voltage:	10 Vrms	1.0 dc
Maximum		
Input Current:	10 mArms	34 mAdc
Turn-On Time:	20 ms	0.5 cycle, max.
Turn-Off Time:	30 ms	0.5 cycle, max.

### GENERAL

#### Operating

Temperature Range: -4 to 176° F (-20 to 80° C)

#### Storage

Temperature Range: -40 to 212° F (-40 to 100° C)

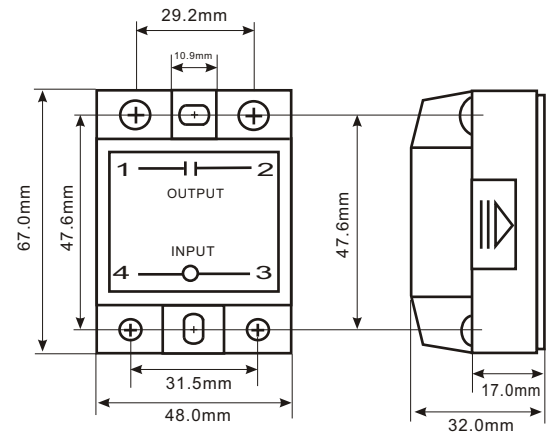
Input to Output Isolation Voltage: 4000 Vrms

Input/Output to Ground Isolation Voltage: 2500 Vrms

Line Voltage: 80 to 250 Vac or 80 to 480 Vac

Line Frequency Range: 47 to 80 Hz

### Outside dimension



## PLEASE READ: IMPORTANT NOTES ON PANEL MOUNTING OF SOLID-STATE RELAYS.

To avoid overheating and possible damage to the relays circuitry, care must be taken to provide adequate heat dissipation. NEVER OPERATE A SOLID-STATE POWER RELAY IN FREE AIR OR WITHOUT A PROPER HEAT SINK. Make sure that the mounting surface is clean, and free of paint or oxidation. If mounting to a metal surface, use an approved thermal grease, or place a thermal foil(HSP1) onto the relays metal mounting plate. Take care to use proper torque when tightening the mounting screws. Under normal operating conditions, the relays case temperature should not exceed 113°F (45°C). To monitor temperature, a thermocouple may be connected to one of the relays mounting screws. Additional heat sinking or a cooling fan must be provided if the relays operating temperature exceeds its optimum rating under load. Where there is any question about the relay's ability to maintain a normal operating temperature, a higher current, thermally derated relay should be specified. Your Athena representative or one of our applications engineers will be glad to assist you with any particular or special power relay requirements.

### Connection diagram

