

33988-RL

10A 380VAC

Resistance Control Solid State Module

Phase Controlled, Opto-Isolated, Solid State Control Module.

Resistance controls Output ON Time

SPST-NO AC Only

LOAD CURRENT: 10A

LOAD VOLTAGE: 24-380VAC

CONTROL RESISTANCE: 470-560K 1/2W

ON Voltage Drop: <1.6VAC

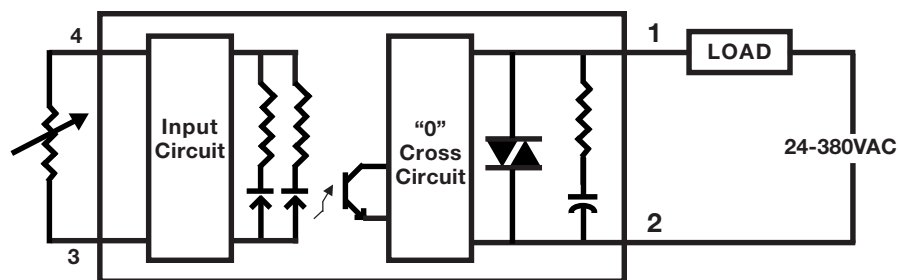
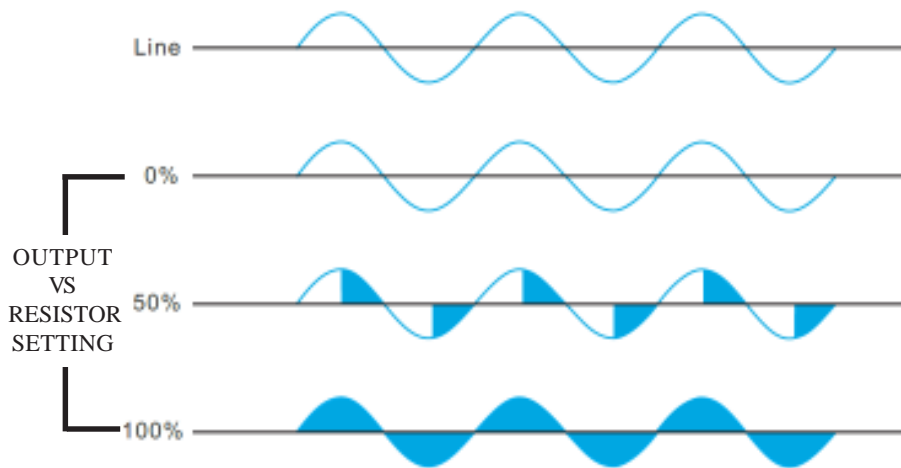
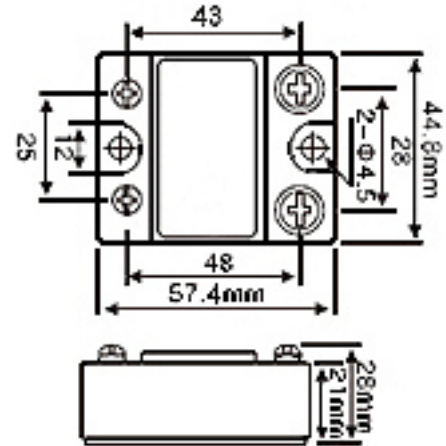
OFF Leakage: <5mA

Dielectric Strength: 2500VAC

Temperature Range: -30 to +70 C

Screw terminals. CE Listed.

L: 2-7/16" W: 1-3/4" H: 1" WT: .3



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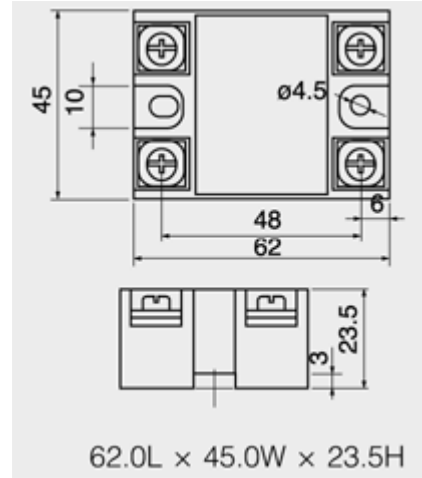
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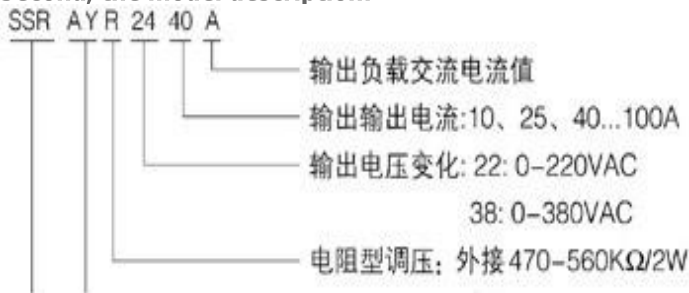
SSR-VA (Solid State Regulator)



First, the product features:

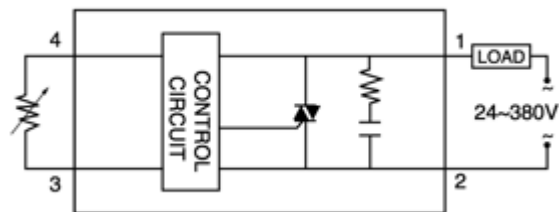
- 1, input, output - heat sink between the isolation withstand voltage $\geq 2500\text{VAC}$;
- 2, built-in RC absorption circuit;
- 3, with security protection stamp;
- 4, external potentiometer can achieve output voltage regulation, Simplify the application;
- 5, thyristor phase shift output, wide adjustment range;
- 6, 100% load current aging test, passed the European Community CE certification.

Second, the model description:



Third, technical parameters:

Single -phase electrical resistance -type cross flow solid -state relay electrical device	Product model classification	SSR-10VA SSR-25VA SSR-40VA SSR-50VA SSR-60VA SSR-75VA
control method	Resistance type voltage regulation	
Load current	10A, 25A, 40A, 50A, 60A, 75A	
Load voltage	24~380VAC	
Input control method	VR: 250K Ω /110VAC, 500K Ω /220VAC, 1M Ω /380VAC	
Control current	/	
On-state leakage current	$\leq 12\text{mA}$	
On-state buck	$\leq 1.5\text{VAC}$	
Off-state time	/	
Dielectric withstand voltage	Input and output - heat sink 2500VAC	
Insulation resistance	1000M Ω /500VDC	
Ambient temperature	-30 $^{\circ}\text{C}$ -+75 $^{\circ}\text{C}$	



Installation method	Bolted
Work instructions	led
weight	132g

Fourth, product application:

SSR.YHR series solid state voltage regulator is made up of thyristor switch circuit and RC phase shift circuit, eliminating hysteresis circuit, overvoltage absorbing circuit in the form of module, using flame retardant engineering plastic shell, epoxy resin Potting, self-lifting screw crimping wiring, with high structural strength, impact resistance, strong shock resistance, novel structure, equipped with a safety cover, making installation inspection convenient, fast, safe and reliable, only need to be equipped with one The potentiometer can be used to achieve AC power regulation, which can replace bulky contact regulators in many applications.

V. Typical applications:

- 1, Industrial equipment temperature control
- 2, incandescent lamp dimming
- 3, resistive heating element
- 4, conveyor belt speed control
- 5, small AC series motor speed regulation
- 6, and other automatic power adjustment occasions

6. Unsuitable case:

- 1, AC motor controller
- 2, the three-phase motor control
- 3, the application needs complete sine wave input
- 4, need to apply zero crossing output
- 5, is not received by the British gas phase modulation waveform where RFI capacitive load and a rectifying circuit

seven Safety precautions:

1. The output terminal is a thyristor phase modulation waveform, which will generate radio frequency interference (connecting the series-inductance in the load loop to reduce interference).
2. When the control potentiometer is long, please use shielded wire or shield with metal tube;
3. This product is non-isolated (input and output). Select potentiometer should pay attention to isolation from line voltage. Installation and use process Attention must be paid to safety;
4. When the load current is higher than 5A, the heat sink must be used or installed on the metal base plate with corresponding heat dissipation effect, and the thermal grease on the heat sink bottom plate and the mounting surface of the solid state regulator should be coated with thermal grease.
5. When using inductive loads, high transient voltages and surge currents are applied to the output terminals, which may cause the solid state voltage regulator to be mis-conducted or damaged. It is usually necessary to connect a voltage control device with a specific clamping voltage at the output. Such as bidirectional Zener diodes or varistor (MOV). The varistor is recommended to take 1.6-1.9 times the rated voltage.
6. When controlling a small load current load close to the minimum load current, a dummy load resistor must be connected in parallel with the load to reduce the leakage current at the output terminal to generate a higher residual voltage on the load.
7. In order to avoid the temperature rise of the solid state relay exceeding the allowable value, the heat dissipation effect and installation position should be considered when designing the application. When two or more solid state relays are installed side by side, proper spacing should be left.
8. If you have special requirements and applications, please contact our technical department for more detailed technical support.