

25a solid state voltage regulator high power scr ssvr

What is a solid state voltage regulator?

A solid state voltage regulator (SSVR) is a device for manually regulating the AC power. It functions similarly to a dial on an electric stove or a dimmer for ceiling lights. However, the SSVR has a much larger power handling capability than a dimmer, which is typically limited to 5 A or 600 W at 120 VAC.

How does the SSVR (SSVR kit) work?

The SSVR (Single-Phase Solid State Voltage Regulator) in the SSVR kit works similarly to a solid state relay (SSR). It generates heat when current passes through it, with each ampere of current producing approximately 1.5 W of heat. The user is advised to mount it to a heat conducting metal surface or use our SSR heat sink with the proper current rating.

What is a PT100 ssvr?

The Auber Instruments PT100 SSVR (SSVR25A), with a 6 ft. cable, is a solid state voltage regulator for manually regulating the AC power. It functions similarly to a dial on an electric stove or a dimmer for ceiling lights.

Can an SSVR be used for AC motor speed regulation?

The SSVR is suitable for some simple motor applications, but it is not recommended for applications requiring torque control. Wiring should be insulated from contacting the metal chassis. The SSVR is ideal for resistance load applications like heating elements.

Why is ssvr rheostat more sensitive?

The SSVR rheostat is more sensitive to AC power because of the Sine Wave in the middle section. The rheostat carries the same voltage it regulates. Wiring should be insulated from contacting the metal chassis. The SSVR is ideal for resistance load applications like heating elements and some simple motor applications.

What should be applied between ssvr and heat sink?

To help transfer heat from the SSVR to the heat sink, thermal grease (SI-07) or a Silicone Thermal Pad (SI-PAD) should be applied between the SSVR and the heat sink. For more information, please see this link. Typical Wiring Output voltage increases when the dial is turned clockwise. (For decreasing output voltage, please use the pin 1 and pin 2 of the rheostat.)

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