

SOLID STATE RELAY

10-40A ZGINC series resistance control solid voltage regulator

◆ Description

IDZGINC Series Solid Voltage Regulator is composed of resistance capacitance phase shifting circuit and absorption circuit, with power output executed by two-way continuous silicon. The output voltage waveform at both ends of the load may be adjusted with an outboard potentiometer while using for convenient stepless adjustment of voltage and power. It is widely used in dimming of light equipment (filament lamp), temperature control of resistance electric heating appliance and other power adjusting occasions.

◆ Characteristics

With small volume, substitute for contact voltage regulator.

No mechanical contact point greatly improving safety.

With flameproof engineering plastic shell and epoxy resin embedding, especially applicable for occasions such as damp- or explosion proof.

◆ Specification

2W-470-680K-X input outboard potentiometer

220V a.c. output rated voltage

10, 16, 25, 40A a.c. output rated current

1.6V a.c. max output voltage drop while being fully switched on

15mA a.c. max output leakage current while being fully cut off

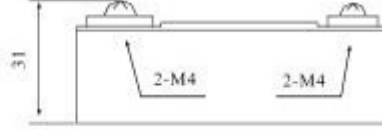
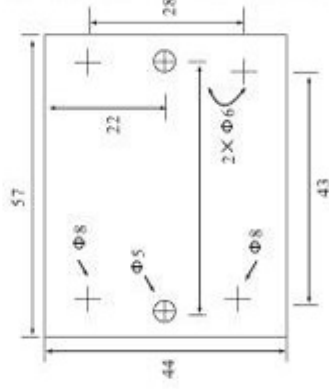
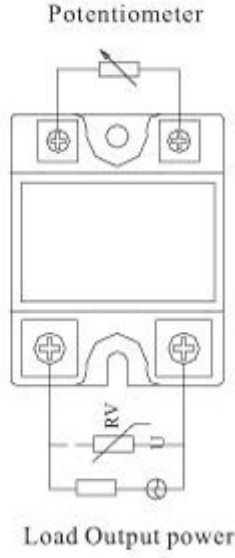
600V p min withstand transient voltage while cutting off

2500V a.c. min/50Hz withstand voltage of media between outlet terminal and bottom plate

◆ Cautions

The exit voltage of controllable silicon phase modulation waveform will produce radio frequency interference (it will decrease if an inductive circuit is connected to the load loop in series). More attention shall be paid in using for there is no isolation between input control terminal and output load terminal. An outboard radiator shall be mounted if working at rated current for a long time (a radiator of 0.5K/W shall be mounted for the voltage regulator at rated current of 40A; 1K/W for the voltage regulator at rated current less than 40A); the current shall be decreased while using if the environment temperature is extremely high.

◆ Wiring diagram



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