

OP901-V02

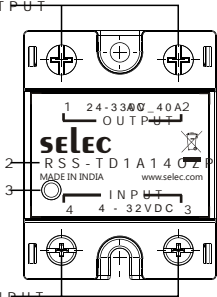
RSS-TD1A140ZP/RSS  
Operating Ins



44.50 X 5

PRODUCT DESCRIPTION

1 OUTPUT



4 INPUT

- 1 - Load output connection screw (M5) terminals
- 2 - Indication area for product label
- 3 - Control input voltage LED indicator
- 4 - Control input connection screw (M5) terminals

SPECIFICATION

INPUT

- " Control voltage : 32VDC
- " Nominal input impedance: 2k Ohm
- " Minimum voltage : 4VDC (Min)
- " Maximum voltage : 1VDC (Max)
- " Maximum turn-on time: 1/2 cycle
- " Maximum turn-off time: 1/2 cycle
- " Zero crossing : Available
- " Reverse polarity protection Available

OUTPUT

- " RMS current (I<sub>rms</sub>) : A/425A
- " Load range : 24-230VAC
- " Minimum load current : 100mA
- " Off-state leakage current: 10mA max (at 30°C)
- " On-state voltage drop : 1.5V SR max
- " Operating frequency range: 47 - 23KHz
- " Minimum power factor : 0.5
- " Repetitive peak Off-state voltage (V<sub>off</sub>) : 800V
- " Non-repetitive peak current (I<sub>pr</sub>) : 140A
- " F<sub>pr</sub>=140A : 400A
- " F<sub>pr</sub>=125A : 250A
- " Rate of Off-state voltage (V<sub>off</sub>) : 500V

General specification

- " Dielectric strength : 4000V/20Hr
- " Ambient temperature : Operating : 30°C to 80°C
- " Storage temperature : -30°C to 100°C

- " Ambient humidity: 93% non-condensing
- " Pollution degree: II
- " Installation category: III
- " Dimensions (l x w x h) mm: 44.5 x 57.5 x 27.3
- " Mounting type : Panel
- " Product weight : Approx 87 g
- " Product Application : For heater control or slightly inductive load

ORDER CODE INFORMATION

Product	Max Load Current	Max Load Voltage	Certification
RSS-TD1A140ZP40A	40A	24-330V	-
RSS-TD1A125ZP25A	25A	24-330V	-

WARNING

⚠ WARNING :

- " Minor human hazard by electric shock may occasionally occur
- " Minor hazard by burns may occasionally occur
- " Heat sink must be used when SSR has to switch a load current above 4A.
- " Heat sink must be connected to ground in the end product.

CAUTION

⚠ CAUTION :

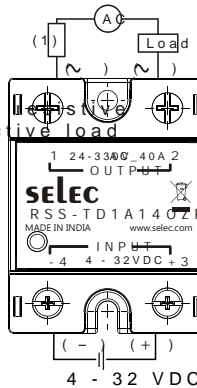
- " Do not touch the SSR or the heat sink either while the power supply is ON or immediately after the power supply is turned OFF. The SSR and the heat sink may be hot.
- " Do not touch the SSR main circuit terminals immediately after the power is turned OFF. The main snubber capacitor is charged.
- " SSR may occasionally rupture in case of short-circuit. To protect against short-circuit accident, installation of a device, such as a quick-burning fuse or a circuit breaker, is recommended to minimize the damage.
- " Never touch the terminals of the SSR while the power supply is turned ON.
- " Ensure the use of proper cable sizes. Abnormal heating of wire may cause burning.
- " Do not use wire with broken sheaths. It may cause electric shock.
- " Use cable with crimp terminals of appropriate size for terminations.
- " Improper terminations may result in fire.
- " Loose terminals generate abnormal heat which may result in fire.
- " Tighten terminal screws to the specified torque. Re-tighten after 48 hours to minimize wire loosening.
- " When tightening terminal screws ensure no non-conductive foreign matter is caught in screw.
- " Be sure to conduct wiring with power supply turned off.
- " Touching the terminals when they are charged may occasionally result in minor electric shock.

SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual must be strictly followed to ensure the safety of the operating personnel as well as the Instrument.

Mounting

- " Mount SSR in the orientation such that the heat sink fins are always positioned in vertical orientation in order to ensure proper heat ventilation & do not obstruct air flow to the SSR heat sink. Air convection for SSR is necessary
- " If a material with high thermal resistance is used as a heat sink, heat generated by SSR may occasionally cause fire or burning.
- " When installing SSR directly into a control panel, use a panel with low thermal resistance such as Aluminium / Steel.
- " Tighten the SSR screws on the terminals to the specified torque to prevent fire.



TIGHTENING TORQUE
1.2 N-m
2.0 N-m

(Specifications are subject to change, since development is a continuous process.)

Selec Controls Pvt. Ltd., India

Factory Address :  
Plot No. 27/A, Electronic Zone, TTC Industrial Area,  
Mumbai.

Inappropriate load may cause misoperation, trouble or burning.  
Select the power supply within the rated frequency range. Inappropriate power frequency may cause misoperation, trouble or burning.