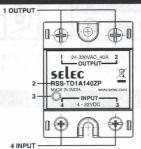
RSS-TD1A140ZP

Operating Instructions





PRODUCT DESCRIPTION



- 1 Load output connection screw (M5) terminals
- 2 Indication area for product label or markings
- 3 Control input voltage LED indicator
- 4 Control input connection screw (M4) terminals

SPECIFICATION

INPUT

Control Input Voltage	: 4 - 32VDC
 Nominal input impedance 	: 2k Ohms
 Must operate voltage 	: 4VDC(Max)
Must release voltage	: 1VDC(Min)
 Maximum turn-on time 	: 1/2 cycle + 1ms
 Maximum turn-off time 	: 1/2 cycle + 1ms
Zero crossing turn-on	: Available
· Reverse voltage protection	: Available

Zero crossing turn-on	Available
 Reverse voltage protection 	: Available
OUTPUT	
RMS on-state current	: 40A / 25A
 Load voltage range 	: 24-330VAC /48-480VAC
 Minimum load current 	: 100mA
Off-state leakage current	: 10mA max(at 330VAC)/ 20mA max(at 480VAC)
 On-state voltage drop 	: 1.5V(RMS)max
· Operating frequency range	: 47 - 63Hz
Minimum power factor	: 0.5
General specification	

around observer	
 Dielectric strength 	: 4000VAC,50/60Hz
2006 39700	for 1min
Ambient temperature	: Operating : - 30 °C to 80 °C
	Storage: - 30 °C to 100 °C
Ambient humidity	: 93% non-condensing

: 11

· Ambient humidity · Pollution degree

· Installation category : 111 : 44.5 x 57.5 x 27.3 · Dimensions(lxwxh)mm

· Mounting type

: Panel · Product Weight : Approx 87

ORDER CODE INFORMATION Certification Max Load Max Load Product Current Voltage RSS-TD1A140ZP 40A 24-330VAC -RSS-TD1A125ZP 25A RSS-TD1A240ZP -40A 48-480VAC RSS-TD1A225ZP 25A

WARNING

WARNING:

- · Minor human hazard by electric shock may occasionally
- · 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

A CAUTION :

- · Disconnect all power supply before servicing equipment.
- . Do not touch the SSR or the heat sink either while the power supply is ON or immediately after the power 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 internal snubber circuit is charged.
- · SSR may occasionally rupture in case of short circuit. To protect against short-circuit accident, install a protective device, such as a quick-burning fuse or a circuit breaker.
- · Never touch the terminals of the SSR while the power supply is turned ON.

A SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment 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
- · If a material with high thermal resistance is used for heat sink, heat generated by SSR may occasionally cause fire or burning.
- · When installing SSR directly into a control panel such that the panel can be used as a heat sink, use a panel material with low thermal resistance such as Aluminium / Steel

· Tighten the SSR screws securely. Loose terminals generate abnor

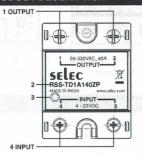
Doc. name : OP INST RSS-TD1A125ZP OP901-V0 Page 1 of 2)

RSS-TD1A140ZP **Operating Instructions**



44.50 X 57.50

PRODUCT DESCRIPTION



- 1 Load output connection screw (M5) terminals
- 2 Indication area for product label or markings
- 3 Control input voltage LED indicator
- 4 Control input connection screw (M4) terminals

SPECIFICATION

INPUT

Control Input Voltage	: 4 - 32VDC
 Nominal input impedance 	: 2k Ohms
Must operate voltage	: 4VDC(Max)
Must release voltage	: 1VDC(Min)
 Maximum turn-on time 	: 1/2 cycle + 1ms
Maximum turn-off time	: ½ cycle + 1ms
 Zero crossing turn-on 	: Available
· Reverse voltage protection	: Available

OUTPUT

 RMS on-state current 	: 40A/25A
Load voltage range	: 24-330VAC /48-480VAC
 Minimum load current 	: 100mA
Off -4-4- 11	. 10m A may(at 220)/AC)/

: 10mA max(at 330VAC)/ Off-state leakage current 20mA max(at 480VAC) · On-state voltage drop : 1.5V(RMS)max

· Operating frequency range : 47 - 63Hz · Minimum power factor :05

General specification

· Dielectric strength

: 4000VAC.50/60Hz for 1min

· Ambient temperature

Operating: - 30 °C to 80 °C Storage: - 30 °C to 100 °C 93% non-condensing

· Ambient humidity · Pollution degree

: 111

· Installation category · Dimensions(lxwxh)mm

: 44.5 x 57.5 x 27.3 : Panel

· Mounting type · Product Weight

: Approx 87 g

ORDER CODE INFORMATION Max Load Max Load Certification Product Current Voltage RSS-TD1A140ZP 40A 24-330VAC _ RSS-TD1A125ZP 25A RSS-TD1A240ZP 40A 48-480VAC RSS-TD1A225ZP -25A

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- · If a material with high thermal resistance is used for heat sink, heat generated by SSR may occasionally cause fire or burning.
- · When installing SSR directly into a control panel such that the panel can be used as a heat sink, use a panel material with low thermal resistance such as Aluminium / Steel.
- Tighten the SSR screws securely. Loose terminals generate abnormal heat which may result in fire.

Doc. name: OP INST RSS-TD1A125ZP OP901-V01 (Page 1 of 2)

WIRING



FUSE INFORMATION

Product	(1) Suitable Fuse
RSS-TD1A140ZP	45A Class J
RSS-TD1A240ZP	
RSS-TD1A125ZP	
RSS-TD1A225ZP	00/10/0000

WIRING GUIDELINES

- 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.
- Heat generated by incorrect terminations may result in fire.

Loose terminals generate abnormal heat which may result in fire.

- Tighten screws to the specified torque. Re-tighten after 48 hours to minimize wire cold flow. Re-torque every 3 to 6 months.
- When tightening terminal screws ensure no non-conductive foreign matter is caught in screw.
- Be sure to conduct wiring wth power supply turned off.
 Touching the terminals when they are charged may occasionally result in minor electric shock.

TIGHTENING TORQUE

SCREW SIZE	TIGHTENING TORQUE
M4 screws(Control Input)	1.2N-m
M5 screws (Load Output)	2.0N-m

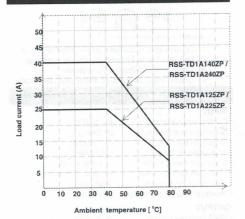
USAGE

- Always use SSR within its rated specifications, otherwise malfunction, damage or fire may result.
- Select a load within the rated range.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.

 Use of SSR in domestic environments may cause radio interference, in this case the user may be required to employ additional mitigation methods.

DIMENSION(mm) 0 4.50 0 4.50 0 4.50 0 4.50 0 4.50 0 4.50 0 4.50 0 4.50 0 5.50 1 24.330VAC, 40A 2 SELEC RSS-TD1A140ZP MORE RINEAL MANAGE COM MORE RINEAL MANAGE CO

DERATING CURVE



Note.: Heat sink used with a radiation efficiency of 1 °C/W

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

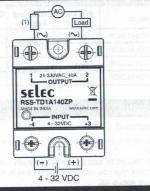
Selec Controls Pvt. Ltd., India

Factory Address:

EL-27/1, Electronic Zone, TTC Industrial Area, MIDC, Mahape, Navi Mumbai - 400 710, INDIA.

Tel. No.: +91-22-41 418 468/41 418 452

Fax No.: +91-22-28471733 | Toll free: 1800 227 353 Website: www.selec.com | Email: sales@selec.com WIRING



FUSE INFORMATION

Product	(1) Suitable Fuse
RSS-TD1A140ZP	45A Class J
RSS-TD1A240ZP	
RSS-TD1A125ZP	30A Class J
RSS-TD1A225ZP	OUT CIACO C

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- Be sure to conduct wiring with power supply turned off.
 Touching the terminals when they are charged may occasionally result in minor electric shock.

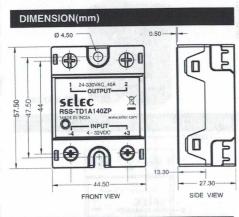
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M5 screws (Load Output)	2.0N-m

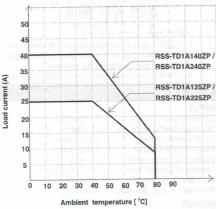
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DERATING CURVE



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Doc. name : OP INST RSS-TD1A125ZP OP901-V01 (Page 2 of 2)

Doc. name: OP INST RSS-TD1A125ZP OP901-V01 (Page 2 of 2)