# Solid State Relay

Panel Mount - AC Input & AC Output Single Phase

SELEC
Creating Best Value



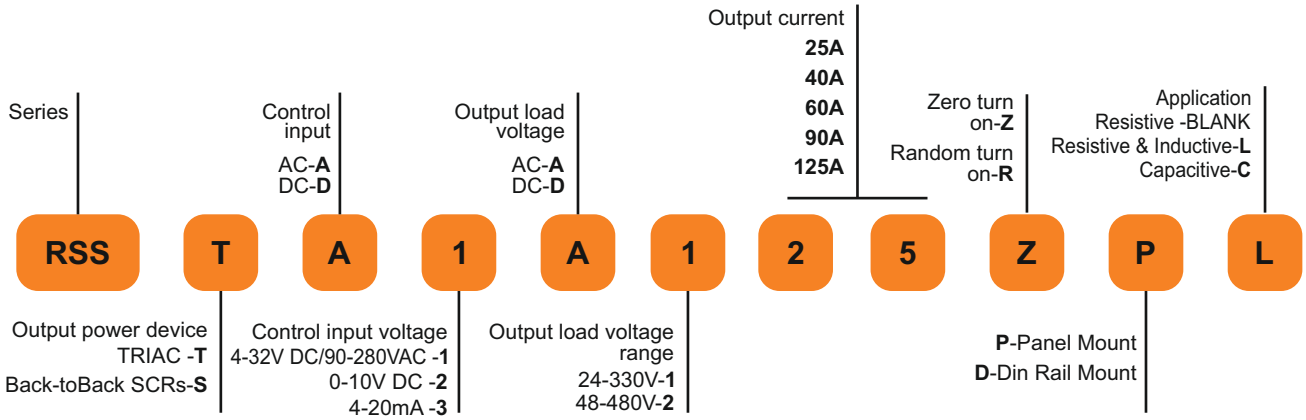
## RSS SERIES

- Output current of 25 and 40 Amps
- Output voltage of 24-330V and 48-480VAC
- Control voltage of 90-280VAC
- Integrated IP20 touch safe removable cover
- Input status indicator - LED
- Cost-effective solution

### Product selection-Zero crossing

| Product name | RSS-TA1A125ZP | RSS-TA1A140ZP | RSS-TA1A225ZP | RSS-TA1A240ZP | RSS-TA1A225ZPL | RSS-TA1A240ZPL |
|---|---|---|---|---|---|---|
| Rated load current | 25A | 40A | 25A | 40A | 25A | 40A |
| Output voltage | 24-330VAC | 24-330VAC | 48-480VAC | 48-480VAC | 48-480VAC | 48-480VAC |
| Control voltage | 90-280VAC | 90-280VAC | 90-280VAC | 90-280VAC | 90-280VAC | 90-280VAC |
| Transient voltage | 800 | 800 | 800 | 800 | 1200 | 1200 |

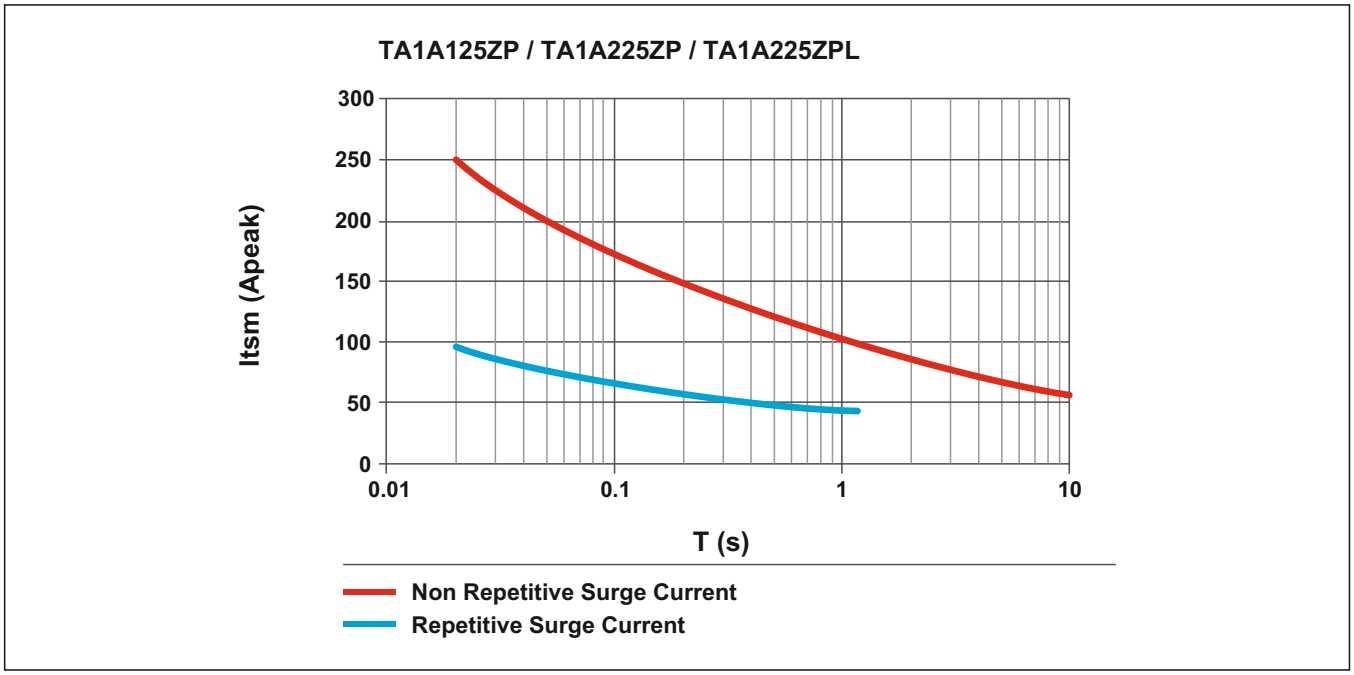
## NOMENCLATURE

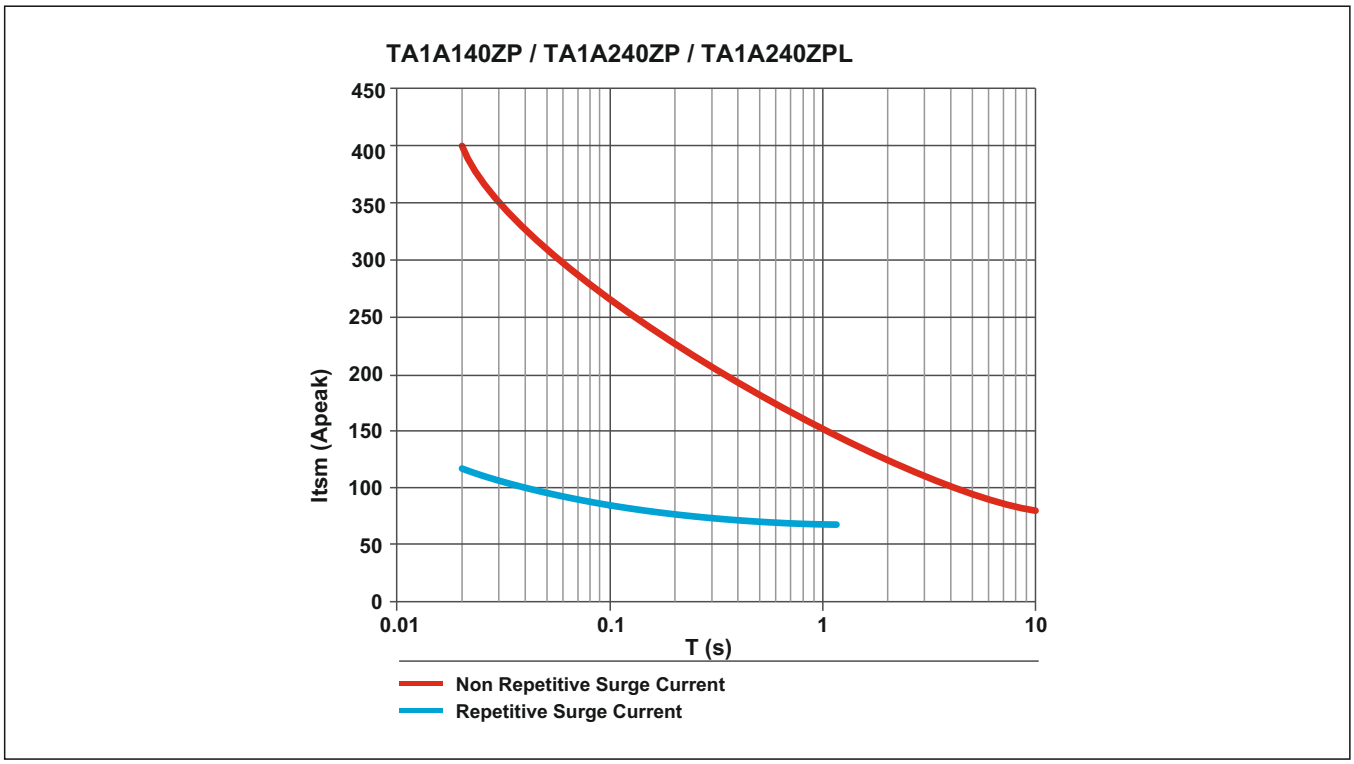



### 1 : Input Specification

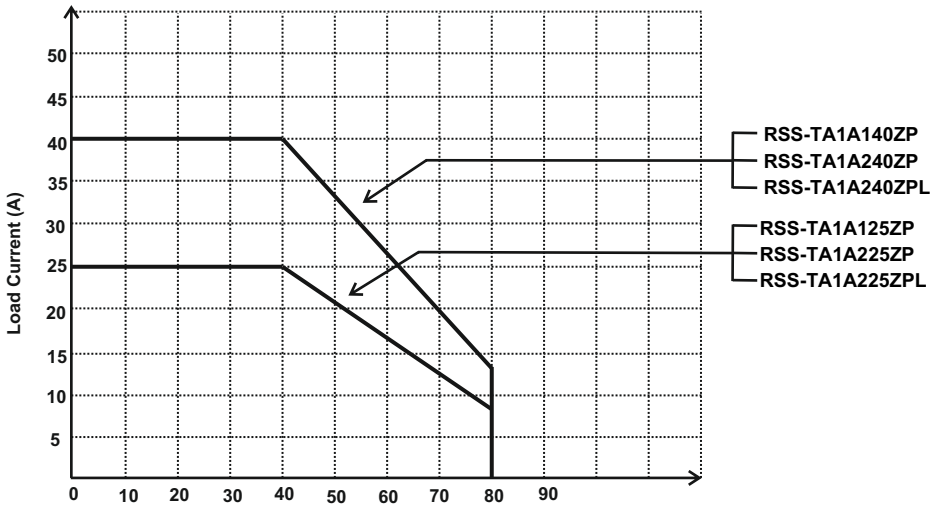
| Description | |
|---|---|
| Control voltage range | 90-280V AC |
| Control current range | 7-20mA |
| Nominal input impedance | 2k ohm |
| Pick up voltage | 90V AC |
| Drop out voltage | 45V AC |
| Maximum response time pick up | ½ cycle+1 sec |
| Maximum response time drop up | ½ cycle+1 sec |
| Max reverse voltage | 40VDC |
| Zero crossing turn on | Available |
| Reverse voltage Protection | Available |
| LED indicator showing relay ON state | Available |

## 6 : Surge Current Information



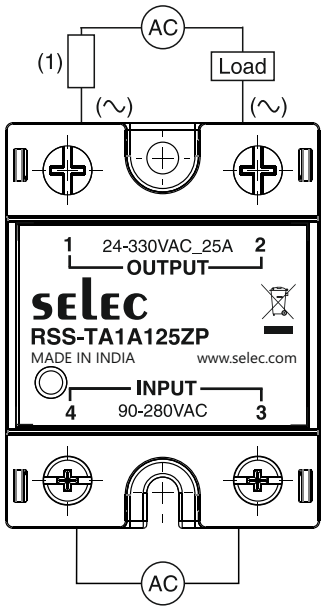



## 7 : Thermal Derating Curves

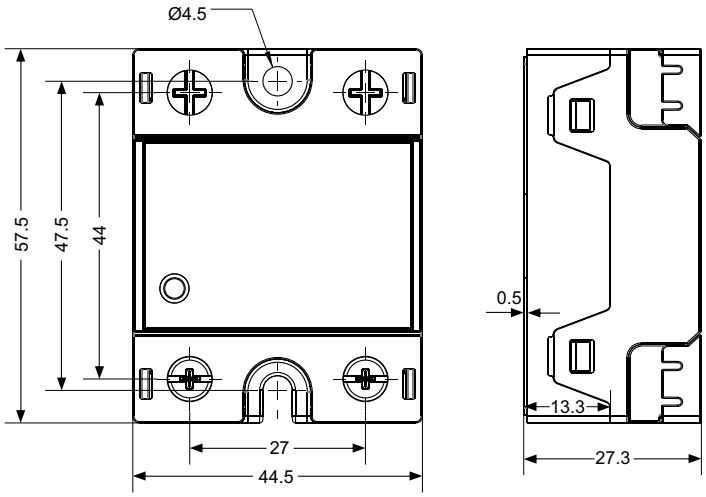



**Ambient temperature [°C]**
**Note.: Heat sink used with a radiation efficiency of 1°C/W**

## 8 : Wiring




## 9 : Dimension (mm)




## 10 : Tightening Torque

| Screw Size | Wire Size (Solid) | Tightening Torque |
|---|---|---|
| M4 Screws (control input) | 18..14 AWG (0.75..2.5 mm²)<br>2 x 18..14 AWG (0.75..2.5 mm²) | 1.2 N-m |
| M5 Screws (load output ) | 16..8 AWG (1.5..10 mm²)<br>2 x 16..8 AWG (1.5..10 mm²) | 2.0 N-m |