

SRA1

solid-state relay - single phase

DURAKOOL



- High load voltage - up to 480VAC
- 4 - 32VDC or 90 - 250VAC control voltage
- Zero cross-over or Random switching
- LED input indicator
- Finger protected terminals
- RoHS Compliant



Output (load)

| | | |
|-----------------------------|---------------------|--------------------------------------|
| Load type | | SPST-NO (1 N/O) Resistive |
| Load current | | 10A, 20A, 25A, 30A, 40A, 60A, or 80A |
| Load switching voltage | AC V _{rms} | 24 - 240V, 40 - 480V |
| Maximum peak voltage | AC V _{pk} | 900V |
| Switch type | | Zero Cross (std) or Random |
| On voltage drop | V AC | 1.5V |
| Leakage current (off state) | mA | ≤ 7mA |

Input (control)

| | | |
|------------------|------------------|--------------------------------|
| Control voltage | V | D: 4 - 32VDC or A: 90 - 250VAC |
| Control current | mA | < 20mA |
| Turn-on voltage | V _{min} | D: 3VDC / A: 90VAC |
| Turn-off voltage | V | D: 1VDC / A: 10VAC |

Insulation

| | | |
|-----------------------|------|--------------------------|
| Insulation resistance | | ≤ 500MΩ at 500VDC, 50%RH |
| Dielectric strength | V AC | ≥ 2500V |

General Data

| | | |
|---------------------|-----------|---|
| Operating time | mS | ≤ 10ms |
| Release time | mS | ≤ 10ms |
| Dimensions | L x W x H | 60 x 45.1 x 27.5mm |
| Weight | | 98g |
| Ambient temperature | storage | -30 to 80°C |
| | operating | -30 to 80°C (with derating). A heat sink may be required. |

SRA1

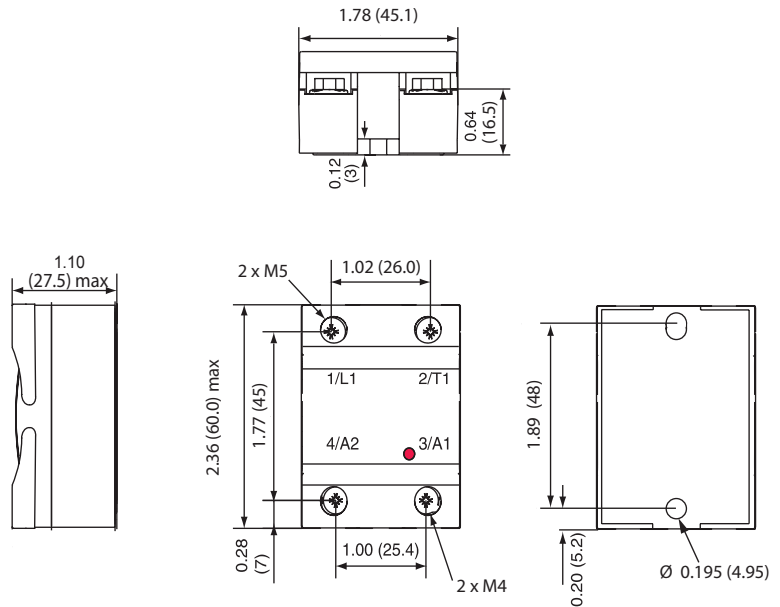
solid-state relay - single phase



Ordering Code

| | | | | | | | | | |
|-----------------------|------------------|---|---|---|---|----|---|---|---|
| S | R | A | 1 | Z | - | 25 | K | - | D |
| Switch Function | | | | | | | | | |
| Z | - Zero Crossover | | | | | | | | |
| R | - Random | | | | | | | | |
| Load Current Rating | | | | | | | | | |
| 10 | - 10A | | | | | | | | |
| 20 | - 20A | | | | | | | | |
| 25 | - 25A | | | | | | | | |
| 30 | - 30A | | | | | | | | |
| 40 | - 40A | | | | | | | | |
| 60 | - 60A | | | | | | | | |
| 80 | - 80A | | | | | | | | |
| Load Voltage | | | | | | | | | |
| L | - 24 to 240VAC | | | | | | | | |
| K | - 40 to 480VAC | | | | | | | | |
| Control Voltage Input | | | | | | | | | |
| A | - 90 to 250VAC | | | | | | | | |
| D | - 4 to 32VDC | | | | | | | | |

Dimensions



Dimensions in inches (mm)

Fig.2

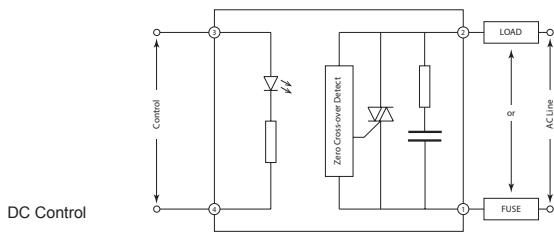


Fig.3

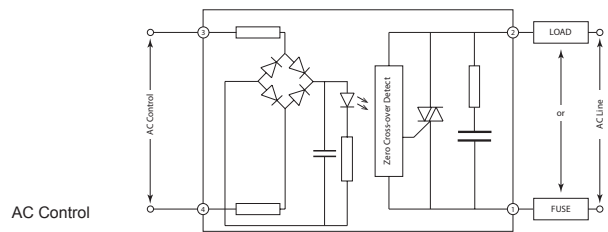


Table 1

| SSR Series | SRA1*-10*-* | SRA1*-25*-* | SRA1*-60*-* | SRA1*-80*-* |
|-----------------------|-------------|-------------|-------------|-------------|
| | SRA1*-15*-* | SRA1*-30*-* | | |
| | SRA1*-20*-* | SRA1*-40*-* | | |
| Current rating | <20A | <40A | <60A | <80A |
| Heat Sink | DHS01 | DHS02 | DHS03 | DHS04 |
| Heat Sink Rating °C/W | 2.19 | 1.49 | 1.35 | 1.07 |

Fig.4

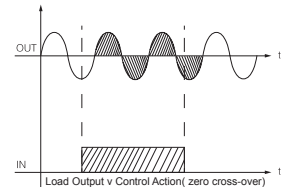


Fig.5

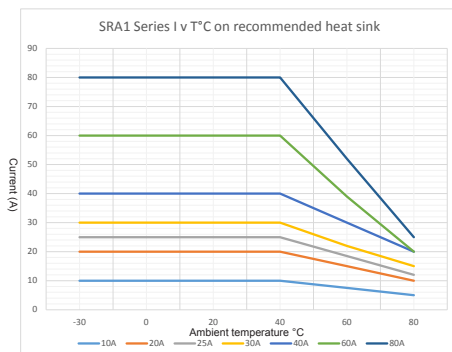


Fig.6

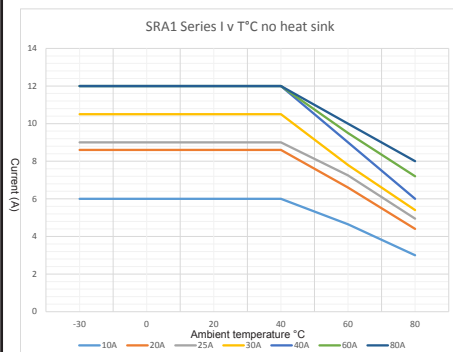


Fig.7

