# SRA1 Series
## Single Phase Solid State Relay

**NOT FOR NEW DESIGN**

- 10 ~ 80 Amps, 480VAC maximum
- Single phase, zero crossover switching
- DC & AC Control input options
- LED Control input indicator
- Integral terminal protection covers

UK CA CE c UL us E325835 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 $V_{pt}$ | 900V |
| Minimum load current | | 0.1A |
| Inrush current (max.) | 10ms | 20A: 240A / 25A: 300A / 30A: 380A |
| $I^2t$ | $A^2s$ | 20A: 288 / 25A: 450 / 30A: 660 |
| | | 40A: 880 / 60A: 2100 / 80A: 4050 |
| Switch type | | Zero crossover |

### Input (control)

| | | |
|---|---|---|
| Control voltage | V | DC: 4 ~ 32 or AC: 90 ~ 250 |
| Control current | mA | <20 |
| Turn-on voltage (min.) | $V_{min}$ | DC: 3.5 / AC: 90V |
| Turn-on voltage (max.) | $V_{max}$ | DC: 35 / AC: 250V |
| Turn-off voltage | V | DC: 1 / AC: 10 |

### Environmental

| | | |
|---|---|---|
| Dimensions | L x W x H | 60 x 45.1 x 28mm |
| Weight | approx. | 98g |

Note:
- All SSR's should be protected by fast acting "semiconductor" fuses.
- Circuit breakers and normal fuses are not quick enough to protect the SSR in the event of a current surge or spike"
- It is recommended that load power is kept to no more than 70% of the SSR's rating to avoid unexpected issues in the event of variations in the load and ambient temperature" These SSR's are designed to be used with a suitable heat sink.
- Transfer Pads and Heatsinks for Durakool SSR relays can be found in Durakool's Solid State Relay (SSR) catalogue.

### Ordering Code

S R A 1 Z - 2 5 L - A

**Series**

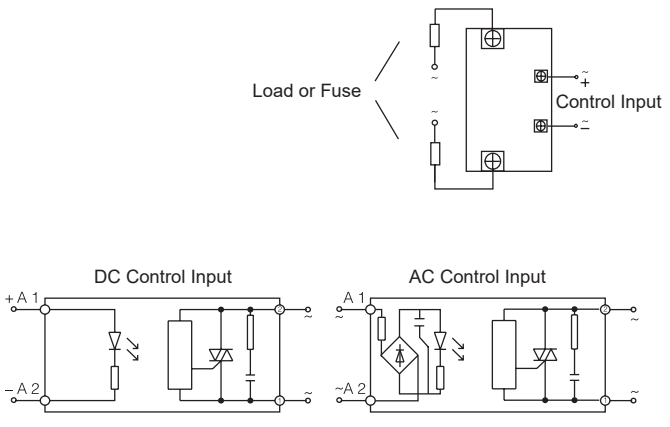
**Switching**
Z: Zero Crossover

**Load current**
10: 10A
20: 20A
25: 25A
30: 30A
40: 40A
60: 60A
80: 80A

**Load voltage**
K: 40 to 480VAC
L: 24 to 240VAC

**Control voltage input**
A: 90 ~ 250VAC
D: 4 ~ 32VDC

### Schematic — Fig. 1




### Dimensions in mm — Fig. 2