

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.

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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

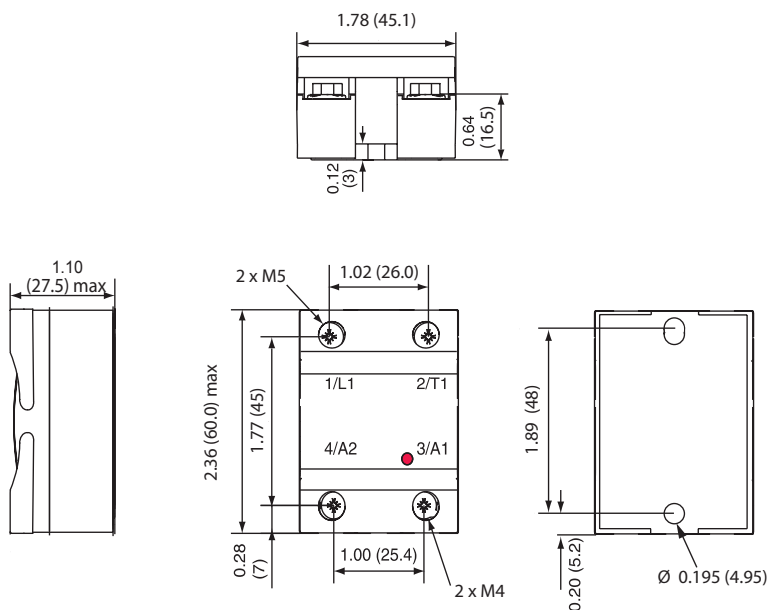
Control Voltage Input

A - 90 to 250VAC

D - 4 to 32VDC

Dimensions

Fig.1



Dimensions in inches (mm)

Fig.2

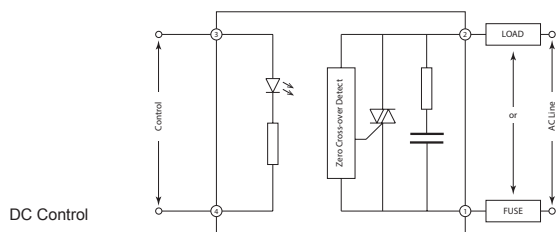


Fig.3

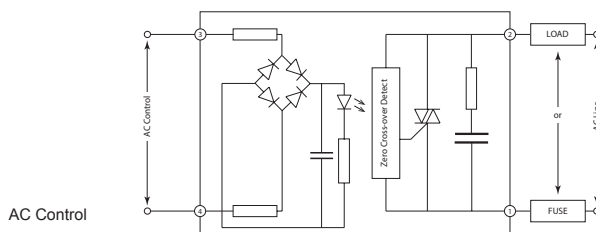


Table 1

Fig.4

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

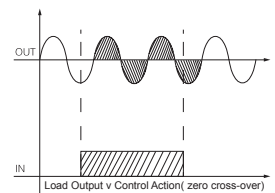
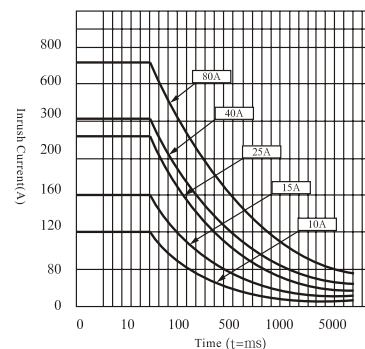
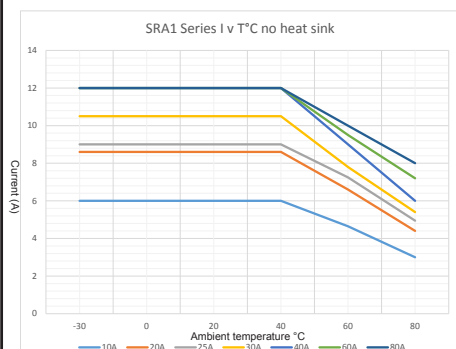
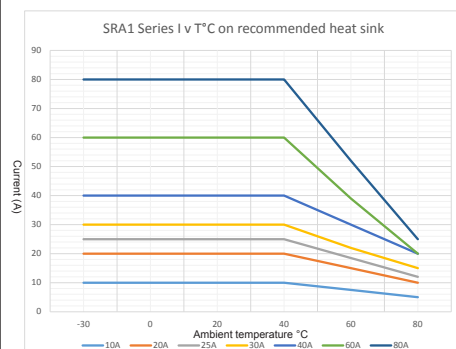


Fig.5

Fig.6

Fig.7



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[SDA1Z-15K-D](#) [SDA1Z-80K-A](#) [SDA1Z-80K-D](#) [SRA1Z-25K-D](#) [SDA3Z-30K-D](#) [DM84-2012-35-5012](#) [SRA3Z-80K-D](#) [DHS02](#) [SRA1Z-10K-](#)
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