SV Series - Panel Mount Solid State Relays

FEATURES/BENEFITS

- **10 - 75 amps, 330Vac max.**
- **50 - 75 amps, 660Vac max.**
- **Single phase, zero crossing**
- **LED input indicator**
- **Clear safety cover included**
- **Panel mount**
- **DC and AC input versions**
- **Superior surge survival**
- **Meets EN60947-4-3**
- **UL recognized, CSA listed, CE approved**
- **100% tested**

SPECIFICATIONS

Dimensions inches (mm): 2.25(57.1)H x 1.75(44.5)W x 1.37(34.8)D on vertical panel

Load type: Resistive

Inputs:

SVDA–DC Input

DC Logic: 10-25A ON ≥ 4Vdc/5.4mA, 32Vdc/10mA max., current limited

50-75A ON ≥ 4Vdc/3.5mA, 32Vdc/8mA max., current limited

OFF ≤ 1Vdc

SVAA–AC Input

AC Logic: ON ≥ 100V, 280Vac max.

OFF ≤ 2mA, 10kΩ impedance

Current ratings: 10A, 25A, 50A and 75A

Voltage ratings: 3Vxx rating option: 24V to 330V max.

6Vxx rating option: 24V to 660V max.

Operating temperature: 0°C to 40°C (up to 80°C with derating)

I^2t (A^2/secs): 10A-60, 25A-260, 50A-1620, 75A-7010

Peak blocking voltage: 800V, impulse (300Vac), 1200V, impulse (600Vac)

Offstate dVdT:

300V	**600V**
10A-750V/µsec	50A-500V/µsec
25A-750V/µsec	75A-500V/µsec
50A-1000V/µsec	
75A-1000V/µsec	

ORDERING CODES

Model	
SVDA	4-32Vdc input, AC output
SVAA	100-280Vac input, AC output

Rating	
3V10	10 amps, 300 volts
3V25	25 amps, 300 volts
3V50	50 amps, 300 volts
3V75	75 amps, 300 volts
6V50	50 amps, 600 volts
6V75	75 amps, 600 volts

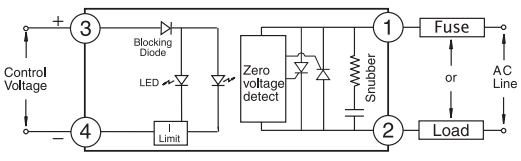
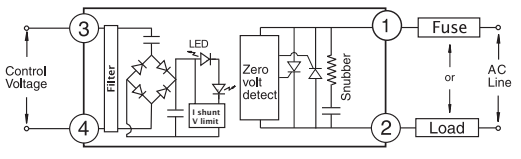
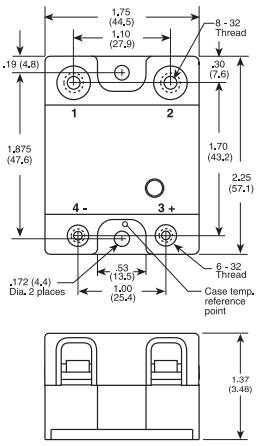
Heat sinks and Accessories (mm)	
S505-heatsk-1.5	76.2 H x 111.8 W x 66.8 D
S505-heatsk-1.0	139.7 H x 111.8 W x 66.8 D
Heatsk-DIN-1.6	80 H x 60 W x 71.1 D
Heatsk-DIN-1.0	116.59 H x 60 W x 86.3 D
Heatsk-6pk-1.2	579 H x 60 W x 71.1 D
Cover Safety-000	Clear Cover
Thermal-pad-005	5 pack of thermal pads
Thermal-pad-025	25 pack of thermal pads

NOTE: Adequate heat sinking, including consideration of air temperature and flow, is essential to the proper operation of a solid state relay. Units should not be mounted in an enclosed area without proper air flow. Units should also never be mounted to a plastic base or to a painted surface. Failure to provide adequate heat sinking with thermal gel or pad will cause a solid state relay to fail.

See Heatsink selection document in downloads for Hockey-Puck Solid State Relays at www.thermaldevices.com

SCHEMATICS/DIMENSIONS

DC Input



AC Input