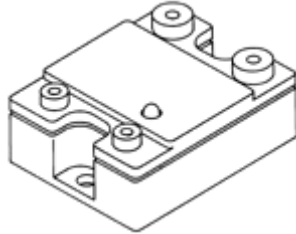
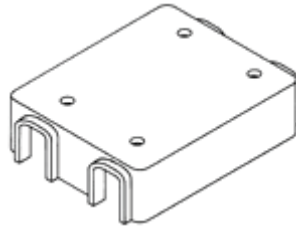


SV Family -- With Superior Surge Survival™

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Features:

- Optically isolated
- LED status indicator
- Clear safety cover included
- 800 volt blocking voltage (3V models)
- 1200 volt blocking voltage (6V models)
- 4000 volt isolation
- Zero voltage turn-on
- Improved built-in snubber
- High surge capability
- 100% tested at rated current
- U.L. recognized
- C.S.A. certified
- CE compliance



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Thermal Devices, Inc.
Mount Airy, Maryland USA
Ph: 800-282-9100
Fx: 301-831-5147
sales@thermaldevices.com

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Input: 4 to 32 VDC	Model ->	SVDA/ 3V10	SVDA/ 3V25	SVDA/- 3V50	SVDA/- 3V75	SVDA/- 6V50	SVDA/- 6V75
Schematic Number		1	1	1	1	1	1
Impedance (Rc)	Ohm	1500	1500	1500	1500	1500	1500
Turn-on Voltage (Min.)	VDC	4V@5.4mA	4V@5.4mA	4V@3.5mA	4V@3.5mA	4V@3.5mA	4V@3.5mA
Turn-on Voltage (Max.)	VDC	32V@10mA Max (current limited)	32V@10mA Max (current limited)	32V@6.5mA Max (current limited)	32V@6.5mA Max (current limited)	32V@6.5mA Max (current limited)	32V@6.5mA Max (current limited)
Turn-off Voltage (Max.)	VDC	1	1	1	1	1	1
Reverse Voltage Protection	VDC	-75	-75	-75	-75	-75	-75

Input: 100 to 280 VAC	Model ->	SVAA/ 3V10	SVAA/ 3V25	SVAA/ 3V50	SVAA/ 3V75	SVAA/ 6V50	SVAA/ 6V75
Schematic Number	0	2	2	2	2	2	2
Impedance (Rc)	KOhm	20	20	20	20	20	20
Turn-on Voltage (Min.)	VAC	100	100	100	100	100	100
Turn-off Voltage (Max.)	VAC	20	20	20	20	20	20
Reverse Voltage Protection		N/A	N/A	N/A	N/A	N/A	N/A

Output: (For All Models)

I_{OUT} (Continuous w/proper heatsink)	A_{RMS}	10	25	50	75	50	75

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Voltage Drop @ I _{OUT}	VAC	1.1	1.2	1.3	1.1	1.3	1.1
I _{SURGE} - 1 Cycle Non-repetitive	A _{PEAK}	100	250	650	950	650	950
I _{SURGE} - 1 Second Non-repetitive	A _{PEAK}	40	100	130	140	130	140
Voltage Range (V _{OUT})	VAC	24-330	24-330	24-330	24-330	24-660	24-660
Peak Blocking Voltage		800	800	800	800	1200	1200
Frequency Range	Hz	47-63	47-63	47-63	47-63	47-63	47-63
Leakage @ V _{OUT} (max.)	mA	8	8	8	8	8	8
Turn-on (max.)		1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
Turn-off (max.)		1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
Holding current (min.)	mA	50	50	50	50	50	50
Zero voltage switching		Yes	Yes	Yes	Yes	Yes	Yes
Dv/Dt @ V _{OUT} (max.)	V _{us}	750	750	1000	1000	500	500
Commutating Dv/Dt Snubbed for Power Factor. =		.5	.5	.5	.5	.5	.5
I ² T Fusing (8.3 ms.)	A ² S	35	260	1035	3745	1035	3745
Thermal resistance R _{θJC} (T _j =115°C)	°C/W	1.48	1.05	.65	.30	.65	.65

General Characteristics:

Dielectric strength (Input-Output-Base)	V _{RMS}	4000	4000	4000	4000	4000	4000
Capacitance Input to Output	pf	3	3	3	3	3	3
Ambient temp. range (Operating)	°C	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100

Adequate heatsinking, 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. Proper thermal transfer gel or pad should be applied to the heatsink before mounting the relay. Failure to provide adequate heatsinking will cause a solid state relay to fail.