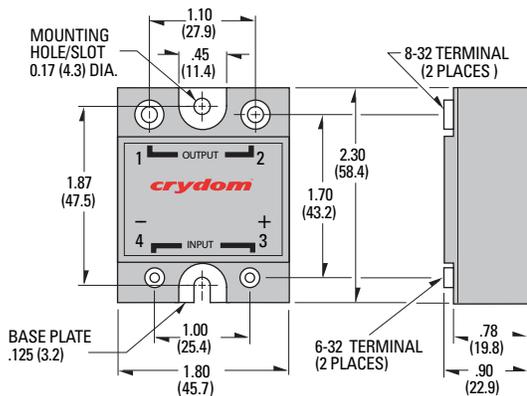


- Zero Voltage Switching
- Panel Mount
- 1200V Transient Capability
- AC or DC Control

Featuring state-of-the-art Surface Mount Technology, these SPST-NO relays deliver proven reliability in the most demanding applications. Output consists of an SCR AC switch and is available with either AC or DC input (coil) control. Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

### MECHANICAL OUTLINE

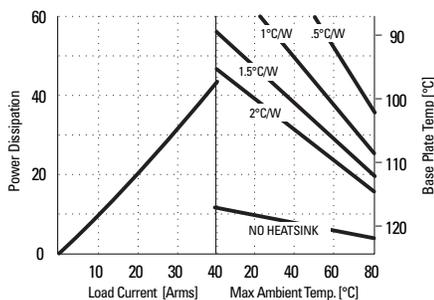


All dimensions are in inches (millimeters)

Screw Torque Requirements:  
 6-32 Screws - 10 in. lbs.,  
 8-32 and 10-32 Screws - 20in. lbs.  
 (Screws dry without grease.)

Crydom Heat Sinks offer excellent thermal management and are perfectly matched to the load current ratings of Crydom panel mount relays. Request Crydom's Heat Sink specification sheet for all the details.

### CURRENT DERATING CURVES



### OUTPUT SPECIFICATIONS <sup>①</sup>

	HA4840	HD4840
Operating Voltage (47-63 Hz) [Vrms]	48-530	48-530
Max. Load Current <sup>③</sup> [Arms]	40	40
Min. Load Current, [mArms]	40	40
Transient Overvoltage [Vpk]	1200	1200
Max. Surge Current, (16.6ms) [Apk]	625	625
Max. On-State Voltage Drop @ Rated Current [Vpk]	1.7	1.7
Thermal Resistance Junction to Case (R <sub>θJC</sub> ) [°C/W]	0.63	0.63
Maximum I <sup>2</sup> t for Fusing, (8.3 msec.) [A <sup>2</sup> sec]	1620	1620
Max. Off-State Leakage Current @ Rated Voltage [mArms]	10	10
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] <sup>②</sup>	500	500
Max. Turn-On Time	10.0ms	1/2 cycle
Max. Turn-Off Time	40.0ms	1/2 cycle
Power Factor (Min.) with Max. Load	0.5	0.5

### INPUT SPECIFICATIONS <sup>①</sup>

	90-280 Vrms (60Hz)	3-32 Vdc
Control Voltage Range	90-280 Vrms (60Hz)	3-32 Vdc
Max. Reverse Voltage	—	-32 Vdc
Max. Turn-On Voltage	90 Vrms	3.0 Vdc
Min. Turn-Off Voltage	10 Vrms	1.0 Vdc
Nominal Input Impedance	60K Ohms	See Note <sup>④</sup>
Typical Input Current	2mA @ 120 Vrms, 4mA @ 240 Vrms	2.0 mA <sup>④</sup>

### GENERAL SPECIFICATIONS

Dielectric Strength	50/60Hz Input/Output/Base	4000 Vrms
Insulation Resistance (Min.) @ 500 Vdc		10 <sup>9</sup> Ohm
Max. Capacitance Input/Output		8 pF
Ambient Operating Temperature Range		-40 to 80°C
Ambient Storage Temperature Range		-40 to 125°C

### MECHANICAL SPECIFICATIONS

Weight: (typical)	3.0 oz. (86.5g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	Screws and Saddle Clamps Furnished, Unmounted

### GENERAL NOTES

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- ① All parameters at 25°C unless otherwise specified.
- ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- ③ Heat sinking required, see current derating curves.
- ④ Input circuitry incorporates active current limiter.

For recommended applications and more information contact:

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