

CRYDOM*Control over power*

Series DC60

3-7Amp • 60 Vdc • DC Output

- **Cost Effective**
- **Industry Standard Package**
- **AC or DC Control**
- **Panel Mount**

Bipolar transistor outputs are available in 3, 5 and 7 amp ratings. Cost-effective relays offer 4000 Volt isolation and come in Crydom's standard panel-mount package.

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

MODEL NUMBERS	DC CONTROL			AC CONTROL		
	DC60S3	DC60S5	DC60S7	DC60SA3	DC60SA5	DC60SA7
OUTPUT SPECIFICATIONS ①						
Operating Voltage Range [Vdc]	3-60	3-60	3-60	3-60	3-60	3-60
Load Current Range ^② [Adc]	.02-3	.02-5	.02-7	.02-3	.02-5	.02-7
Max. Surge Current, (1 sec) [Adc]	6	10	14	6	10	14
Max. On-State Voltage Drop @ Rated Current [Vdc]	1.3	1.5	1.7	1.3	1.5	1.7
Thermal Resistance Junction to Case (R_{JC}) [$^{\circ}$ C/W]	2.2	2.2	2.2	2.2	2.2	2.2
Max. Off-State Leakage Current @ Rated Voltage [mA]	0.1	0.1	0.1	0.1	0.1	0.1
Max. Turn-On Time [msec]	0.1	0.1	0.1	10	10	10
Max. Turn-Off Time [msec]	0.3	0.3	0.3	40	40	40

INPUT SPECIFICATIONS	DC CONTROL		AC CONTROL	
Control Voltage Range	3.5-32 Vdc		90-280 Vrms	
Max. Turn-On Voltage	3.5 Vdc		90 Vrms	
Min. Turn-Off Voltage	1.0 Vdc		10 Vrms	
Nominal Input Impedence	1500 Ohms		60K Ohms	
Typical Input Current	2.2mA @ 5 Vdc		2mA @ 120 Vrms, 4mA @ 240 Vrms	

GENERAL NOTES

① All parameters at 25°C unless otherwise specified.

② Heat sinking required, for derating curves see page 2.

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For recommended applications and more information contact:

USA: Sales Support (877) 502-5500 **Tech Support** (877) 702-7700 **FAX** (619) 710-8540

Crydom Corp, 2320 Paseo de las Americas, Ste. 201, San Diego, CA 92154

Email: sales@crydom.com **WEB SITE:** http://www.crydom.com**UK:** +44 (0)1202 365070 • **FAX** +44 (0)1202 365090 Crydom International Ltd., 7 Cobham Road, Ferndown Industrial Estate, Ferndown, Dorset BH21 7PE, **Email:** intsales@crydom.com.**GERMANY:** +49 (0)180 3000 506

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GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz (input/output/base) 4000 Vrms

Insulation Resistance (Min.) @ 500 Vdc 10^9 Ohm

Max. Capacitance Input/Output 8 pF

Ambient Operating Temperature Range -30 to 80°C

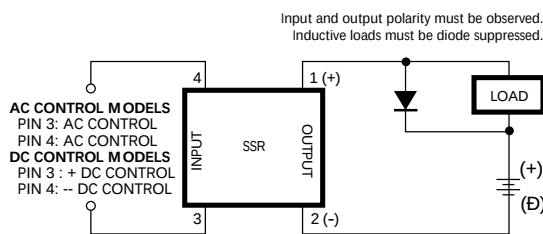
Ambient Storage Temperature Range -30 to 125°C

MECHANICAL SPECIFICATIONS

Weight: (typical) 3.0 oz. (86.5g)

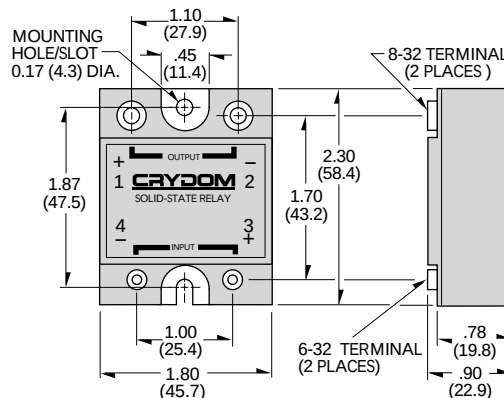
Encapsulation: Thermally Conductive Epoxy

Terminals: Screws and Saddle Clamps Furnished, Unmounted



Transient Protection

All loads are inductive, even ones that are not so labeled. An inductive load will produce harmful transient voltages when it is turned off. Diodes should be fast recovery type with PIV rated greater than supply voltage.



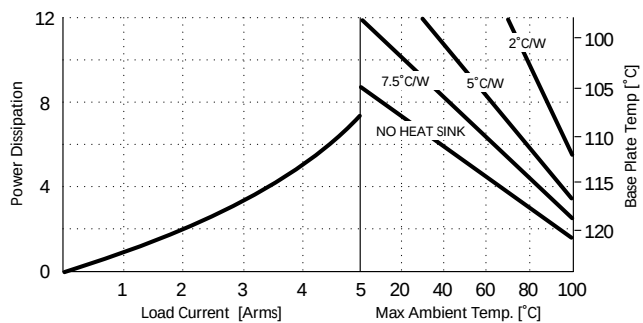
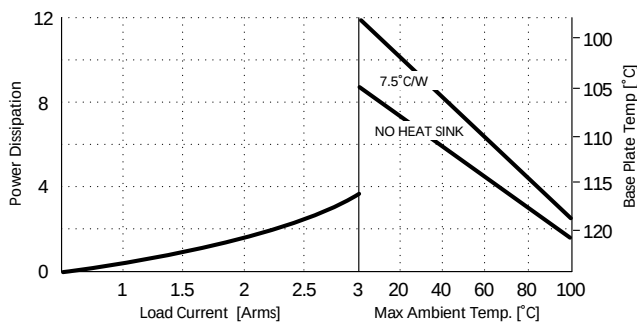
All dimensions are in inches (millimeters)

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

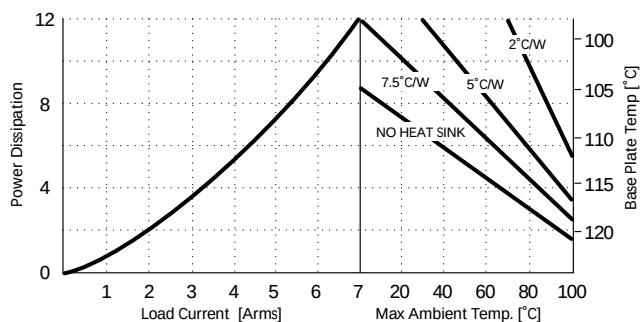
3A

CURRENT DERATING CURVES

5A



7A



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.

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