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Solid State Relays - Panel Mount: DUAL



Features

SCR output • 25-40 Amp • 120/240/480 Vrms • AC Switching • DC controlled • Output 1/4" Fast-on terminals. Ideal for light dimming applications and for three phase systems where only two legs need to be switched.

Product	INPUT SPECIFICATIONS	OUTPUT SPECIFICATIONS			
	Control Voltage Range	Load Current	Switching Voltage Type	Turn On	Load Voltage Range
D2425D	4-15 Volts DC	0.15-25 Amps RMS	AC	Zero cross	24-280 Volts RMS
D2425D-10	4-15 Volts DC	0.15-25 Amps RMS	AC	Random	24-280 Volts RMS
D2425DE	15-32 Volts DC	0.15-25 Amps RMS	AC	Zero cross	24-280 Volts RMS
D2425DE-10	15-32 Volts DC	0.15-25 Amps RMS	AC	Random	24-280 Volts RMS
D2440D	4-15 Volts DC	0.15-40 Amps RMS	AC	Zero cross	24-280 Volts RMS
D2440D-10	4-15 Volts DC	0.15-40 Amps RMS	AC	Random	24-280 Volts RMS
D2440DE	15-32 Volts DC	0.15-40 Amps RMS	AC	Zero cross	24-280 Volts RMS

D2440DE-10	15-32 Volts DC	0.15-40 Amps RMS	AC	Random	24-280 Volts RMS
H12D4825D	4-15 Volts DC	0.15-25 Amps RMS	AC	Zero cross	48-530 Volts RMS
H12D4825D-10	4-15 Volts DC	0.15-25 Amps RMS	AC	Random	48-530 Volts RMS
H12D4825DE	15-32 Volts DC	0.15-25 Amps RMS	AC	Zero cross	48-530 Volts RMS
H12D4825DE-10	15-32 Volts DC	0.15-25 Amps RMS	AC	Random	48-530 Volts RMS
H12D4840D	4-15 Volts DC	0.15-40 Amps RMS	AC	Zero cross	48-530 Volts RMS
H12D4840D-10	4-15 Volts DC	0.15-40 Amps RMS	AC	Random	48-530 Volts RMS
H12D4840DE	15-32 Volts DC	0.15-40 Amps RMS	AC	Zero cross	48-530 Volts RMS
H12D4840DE-10	15-32 Volts DC	0.15-40 Amps RMS	AC	Random	48-530 Volts RMS

- Zero Voltage and Random Turn-On Switching
- SCR Output
- Industry Standard Package
- Panel Mount

Two totally independent AC output relays come in a single standard panel-mount package. Utilizing an AC switch output with internal snubber, relays provide greater protection against false triggering. Model choices include zero-voltage or random turn-on (phase controllable) switching.

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

OUTPUT SPECIFICATIONS ①	MODEL NUMBERS	D2425D	D2440D	H12D4825D	H12D4840D
		D2425DE	D2440DE	H12D4825DE	H12D4840DE
Operating Voltage (47-63 Hz) [Vrms]		24-280	24-280	48-530	48-530
Load Current Range ③ [Arms]		.15-25	.15-40	.15-25	.15-40
Transient Overvoltage [Vpk]		600	600	1200	1200
Max. Surge Current, (16.6ms) [Apk]		250	625	250	625
Max. On-State Voltage Drop @ Rated Current [Vpk]		1.6	1.6	1.6	1.6
Thermal Resistance Junction to Case (R _{qJC}) [°C/W] ①		1.02	.63	1.02	.63
Maximum I ² t for Fusing, (8.3 msec.) [A ² sec]		260	1620	260	1620
Max. Off-State Leakage Current @ Rated Voltage [mArms]		10	10	10	10
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ②		500	500	500	500
Max. Turn-On Time ④		1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
Max. Turn-Off Time		1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
Power Factor (Min.) with Max. Load		0.5	0.5	0.5	0.5
INPUT SPECIFICATIONS ①	D24XXD	H12D48XXD		E-SUFFIX	
Control Voltage Range	4-15Vdc	4-15Vdc		15-32Vdc	
Max. Turn-On Voltage	4.0 Vdc	4.0 Vdc		15 Vdc	
Min. Turn-Off Voltage	1.0 Vdc	1.0 Vdc		1.0 Vdc	
Nominal Input Impedance	300 Ohms	240 Ohms		1500 Ohms	
Typical Input Current @ 5Vdc (@ 24Vdc for E-Suffix)	13mA	13mA		15mA	

GENERAL NOTES

- ① All parameters at 25°C and per section unless otherwise specified.
- ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- ③ Heat sinking required, for derating curves see page 2.
- ④ Turn-on time for random turn-on (-10) versions is 0.1 msec.

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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.

GENERAL SPECIFICATIONS

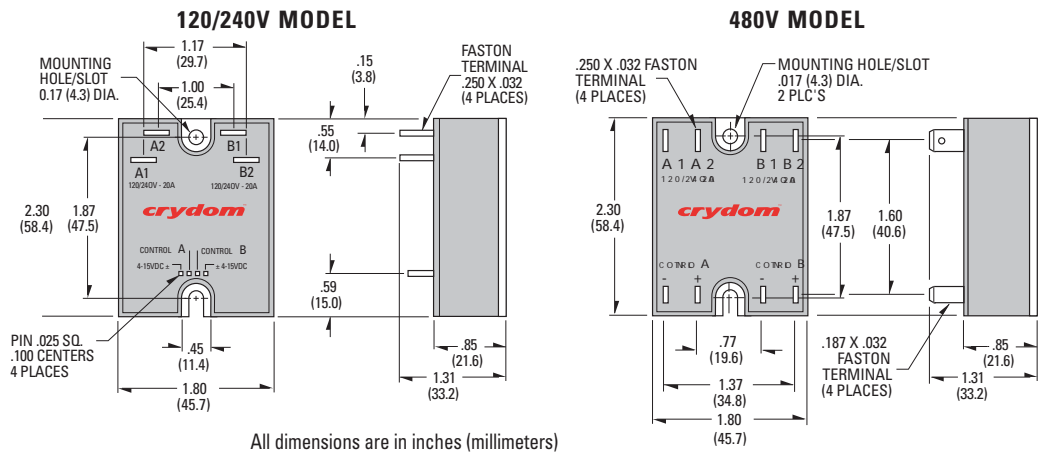
Dielectric Strength 50/60Hz Input/Output/Base	4000 Vrms
Insulation Resistance (Min.) @ 500 Vdc	10 ⁹ Ohm
Max. Capacitance Input/Output	10 pF
Ambient Operating Temperature Range	-40 to 80°C
Ambient Storage Temperature Range	-40 to 125°C

MECHANICAL SPECIFICATIONS

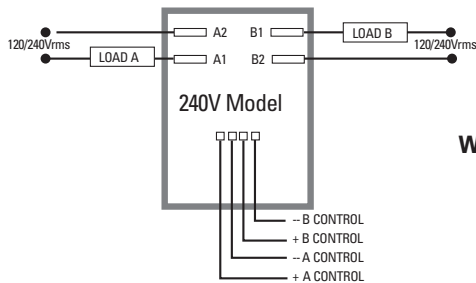
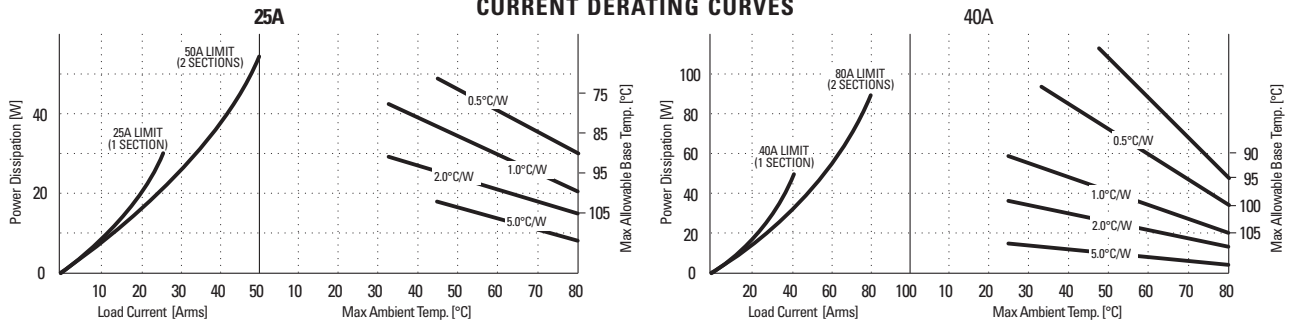
Weight: (typical)	3.0 oz. (86.5g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	.25" Fastons, .025" Square Pins

AVAILABLE OPTIONS

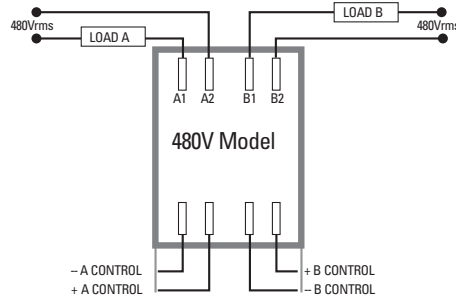
- 10** Random Turn-On, Phase Controllable
Example: **D2440D-10**
- E** 15-32Vdc Control
Example: **H12D4840DE**
- H** Heat Transfer Pad (Attached)
Example: **D2440DH**




CURRENT DERATING CURVES



WIRING DIAGRAMS



APPROVALS

UL E116949
 CSA LR81689 (240V only) 
 VDE 5902 UG

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