

- PCB Mount
- High Surge Rated SCR Output
- Metal Baseplate
- Application include Motor, Heater, Lamp and Solenoid Switching
- No Moving Parts
- Zero Volt or Instant Switch On
- 24Vdc Control Available (Suffix E)

Crydom's LS family of SPST-NO relays achieves the highest power switching capability in a PC-mounted air-cooled package. Output consists of an SCR AC switch and is available in zero-cross and random turn-on (Suffix R). Advanced features include exceptional steady state current, plus high surge ratings. Metal baseplate design for direct attachment of external heatsink to achieve higher current rating.

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

OUTPUT SPECIFICATIONS ①	Model	LS240D8	LS240D8R	LS240D12	LS240D12R
Operating Voltage (47-63 Hz) [Vrms]		24-280	24-280	24-280	24-280
Load Current Range [Arms] ③		0.15-8	0.15-8	0.15-12	0.15-12
Transient Overvoltage [Vpk]		600	600	600	600
Max. Surge Current, (16.6ms) [Apk]		80	80	120	120
Max. On-State Voltage Drop @ Rated Current [Vpk]		1.6	1.6	1.6	1.6
Maximum I ² t for Fusing, (8.3 msec.) [A ² sec]		26	26	60	60
Max. Off-State Leakage Current @ Rated Voltage [mArms]		0.1	0.1	0.1	0.1
Min. Off-State dv/dt @ Max. Rated Voltage [V/ μsec] ②		500	500	500	500
Max. Turn-On Time [ms]		1/2 Cycle	0.1	1/2 Cycle	0.1
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	Model	LS240D8	LS240D8R	LS240D12	LS240D12R
Nominal Control Voltage		5 Vdc	5 Vdc	24 Vdc	24 Vdc
Control Voltage Range		4-10 Vdc	4-10 Vdc	20-28 Vdc	20-28 Vdc
Max. Turn-On Voltage		4.0 Vdc	4.0 Vdc	20 Vdc	20 Vdc
Min. Turn-Off Voltage		1.0 Vdc	1.0 Vdc	1.0 Vdc	1.0 Vdc
Nominal Input Impedance		270 Ohm	270 Ohm	1500 Ohm	1500 Ohm
Typical Input Current @ Nominal Voltage		15 mAdc	15 mAdc	15 mAdc	15 mAdc

GENERAL NOTES

© 2003 CRYDOM CORP, Specifications subject to change without notice.

- 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 See current derating curve on page 2

APPROVALS

UL E116950
 CSA LR 816889
 TUV E2072777



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



GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz Input/Output/Base	2500 Vrms
Insulation Resistance (Min.) @ 500 Vdc	10 ⁹ Ohm
Max. Capacitance Input/Output	10 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C

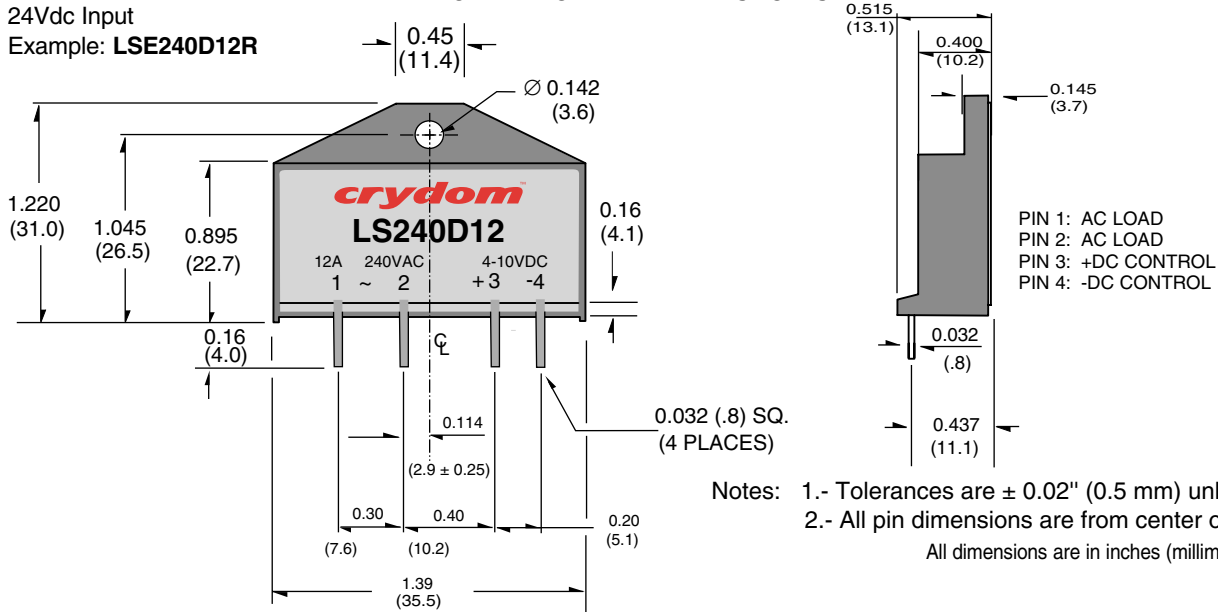
MECHANICAL SPECIFICATIONS

Weight: (typical)	0.6 oz. (17g)
Encapsulation:	Thermally Conductive Epoxy

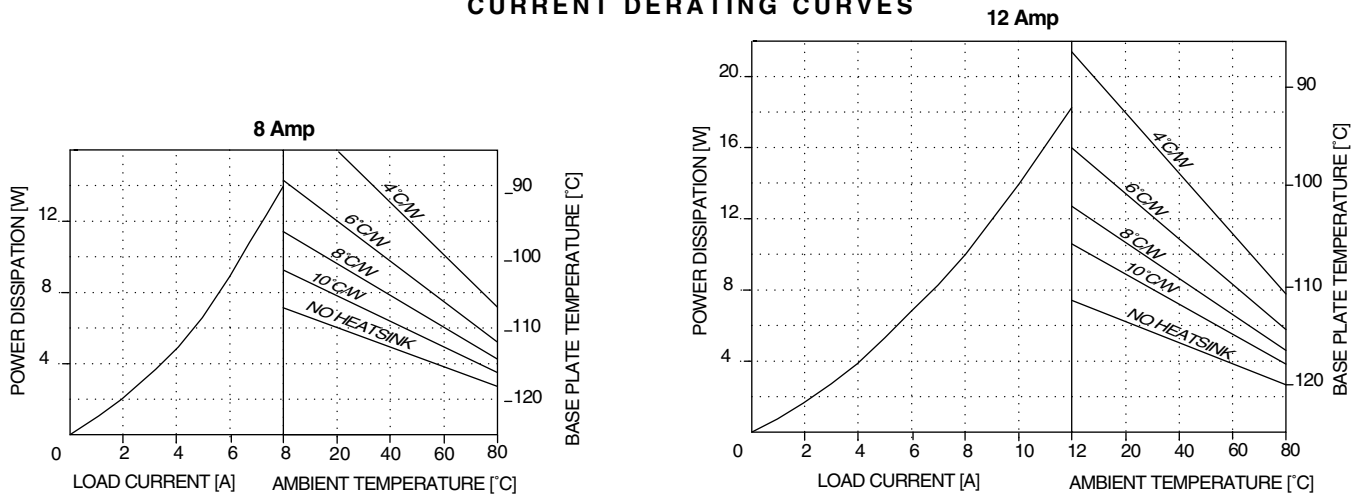
AVAILABLE OPTIONS

E 24Vdc Input
Example: LSE240D12R

MECHANICAL DIMENSIONS



CURRENT DERATING CURVES



© 2003 CRYDOM CORP, Specifications subject to change without notice.