

CRYDOM*Control over power*

Series CTX

4 x 2.5 Amp • 120/240 Vac • TRIAC Output

• 4 AC Relays in One Compact PCB Mount Package**• Crydom's Patented Design**

The CTX240D3Q offers four independently controlled solid state relays in one compact PCB mount package. Based on the proven Series CX package the CTX features extra low leakage

and 4-10 Vdc logic compatible input. The CTX exhibits exceptional steady state ratings utilizing high efficiency thermal management for increased cycle life.

Manufactured in Crydom's ISO 9002 Certified facility for optimum product performance and reliability.

MODEL NO.	ZERO-CROSS SWITCH CTX240D3Q	RANDOM SWITCH CTX240D3QR
INPUT SPECIFICATIONS ① ③		
Control Voltage Range		4-10 Vdc
Nominal Input Impedance		270 Ohm
Typical Input Current (@5 Vdc)		15 mAdc
Must Turn On Voltage		4.0 Vdc
Must Turn Off Voltage		1.0 Vdc
OUTPUT SPECIFICATIONS ① ③		
Operating Voltage Range		24-280 Vrms
Load Current Range per Section (Figure 1)		1 Section ON; 0.1-6.0 Arms 2 Sections ON; 0.1-4.0 Arms 3 Sections ON; 0.1-3.0 Arms 4 Sections ON; 0.1-2.5 Arms
Surge Current, 1 Cycle (Max.)		120 Apk
Transient Over-Voltage		600 Vpk
Frequency Range		47-63
Off-State dv/dt (Min.) ②		200 V/μsec
Off-State Leakage (Max.) @ Nominal Voltage		0.1 mArms
On-State Voltage Drop (Max.)		1.4 Vpk
$I^2 t$ Max. @ $t = 8.3$ msec.		60 A ² sec
Max. Turn-On Time	1/2 Cycle	0.1msec
Max. Turn-Off Time		1/2 Cycle
Power Factor (Min.) With Max. Load		0.5

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For recommended applications and more information contact:

USA: (800) 8 CRYDOM • (800) 827-9366 • (619) 715-7200 • fax (619) 715-7280

Crydom Corp, 9525 Chesapeake Drive, San Diego, CA 92123 • e-mail: sales@crydom.com

WEB SITE: <http://www.crydom.com> **FASTFAX Product Information:** (888) 267-9191**UK:** (44)1202 812300 • fax (44)1202 812340 Crydom International Ltd., 85, Condor Close, Woolbridge Industrial Estate, Three-Legged Cross, Wimborne, Dorset, England BH21 6SU**GERMANY:** (49) (0)6874 182580 • fax (49)(0)6874 182585 Crydom GmbH,

Gewerbegebiet Im Schachen, D-66687 Nunkirchen, Germany • e-mail: vertrieb@crydom.com



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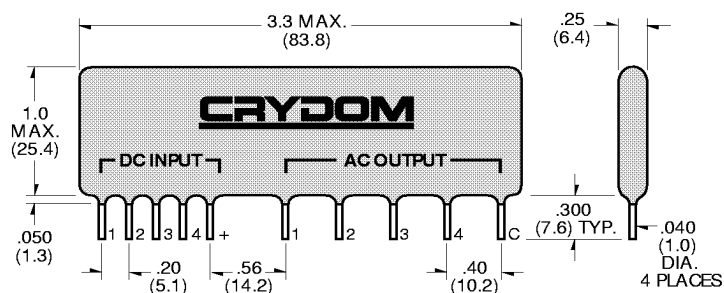
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GENERAL SPECIFICATIONS

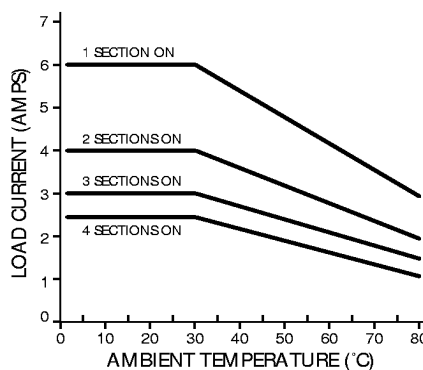
Dielectric (Min.)	2500 Vrms
Insulation Resistance (Min.) @500 Vdc	10 ⁹ Ohm
Capacitance (Max.)	10 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C

MECHANICAL SPECIFICATIONS

Weight: (typical)	0.5 oz. (14.4g)
Encapsulation:	Thermally Conductive Epoxy



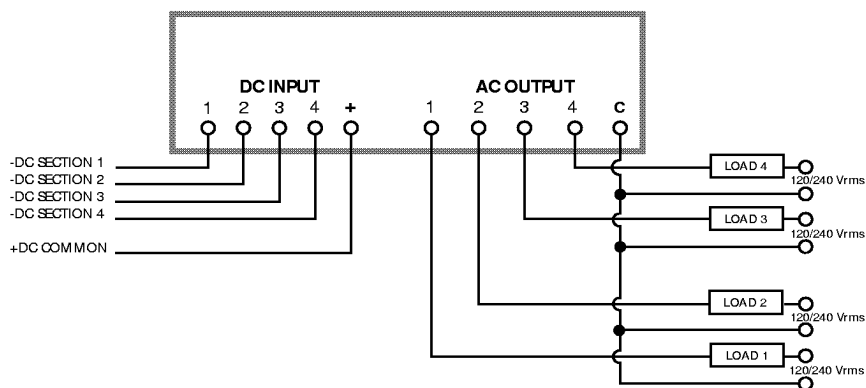
CURRENT DERATING CURVE



GENERAL NOTES

- 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 All specifications are per section unless otherwise noted.

WIRING DIAGRAM



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