



# Series CX

5Amp • 120/240, 380, 480 Vac • AC Output SIP

- SCR Output
- Ultra High Surge Rating
- Crydom's Patented Design

Crydom's family of SPST-NO relays achieves the highest power switching capability in a PC-mounted air-cooled package. Advanced features include

exceptional steady state current, plus ultra-high surge ratings. Models are available to switch up to 660 Vrms with AC or DC control, and either zero-cross or random turn-on ("R") switching versions. Pinout is compatible with Series 6 and OAC type I/O modules.

Manufactured in Crydom's ISO 9002 Certified facility for optimum product

MODEL NUMBERS	AC CONTROL (120Vac) (24Vac)	CX240A5 CXE240A5		
	DC CONTROL (5Vdc) (24Vdc)	CX240D5 CXE240D5	CX380D5 CXE380D5	CX480D5 CXE480D5
<b>OUTPUT SPECIFICATIONS ①</b>				
Operating Voltage (47-63 Hz) [Vrms]		12-280	48-530	48-660
Load Current Range [Arms]		.06-5	.06-5	.06-5
Transient Overvoltage [Vpk]		600	1200	1200
Max. Surge Current, (16.6ms) [Apk]		250	250	250
Max. On-State Voltage Drop @ Rated Current [Vpk]		1.4	1.4	1.4
Maximum I <sup>2</sup> t for Fusing, (8.3 msec.) [A <sup>2</sup> sec]		260	260	260
Max. Off-State Leakage Current @ Rated Voltage [mArms]		0.1	0.1	0.1
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ②		500	500	500
Max. Turn-On Time ③		1/2 Cycle (DC Control), 10.0 msec (AC Control)		
Max. Turn-Off Time		1/2 Cycle (DC Control), 40.0 msec (AC Control)		
Power Factor (Min.) with Max. Load		0.5	0.5	0.5

INPUT SPECIFICATIONS ①	DC CONTROL			AC CONTROL		
	Nominal Voltage	5Vdc	5Vdc	24Vdc	120Vac	24Vac
MODEL NUMBERS		CX240D5	CX380D5 CX480D5	CX240D5 CX380D5 CX480D5	CX240A5	CXE240A5
Control Voltage Range		3-15 Vdc	4-15 Vdc	15-32 Vdc	90-140 Vrms	18-36 Vrms
Max. Turn-On Voltage		3.0 Vdc	4.0 Vdc	15.0 Vdc	90.0 Vrms	18.0 Vrms
Min. Turn-Off Voltage		1.0 Vdc	1.0 Vdc	1.0 Vdc	10.0 Vrms	2.0 Vrms
Nominal Input Impedance		300 Ohm	240 Ohm	1500 Ohm	14.1k Ohm	4.2k Ohm
Typical Input Current @ Nominal Voltage		15 mAdc	15 mAdc	15 mAdc	10 mArms	5 mArms

## 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 Turn-On Time for Random Turn-On versions 0.1msec (DC Control Models).

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,  
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**GERMANY:** (49) (0)6874 182580 • fax (49)(0)6874 182585 Crydom GmbH,  
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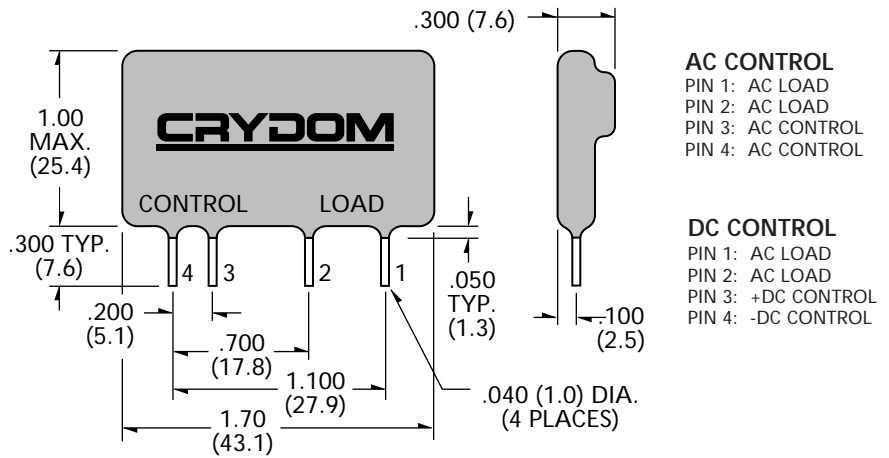
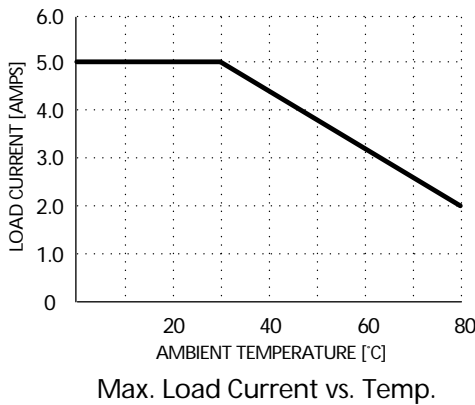
## GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz Input/Output/Base	4000 Vrms
Insulation Resistance (Min.) @ 500 Vdc	10 <sup>9</sup> Ohm
Max. Capacitance Input/Output	10 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C

## MECHANICAL SPECIFICATIONS

Weight: (typical)	0.4 oz. (11g)
Encapsulation:	Thermally Conductive Epoxy

### CURRENT DERATING CURVE



All dimensions are in inches (millimeters)


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### AVAILABLE OPTIONS

**R** Random Turn-On Switching  
 Example: **CX240D5R, CX240A5R**

### APPROVALS

UL E116949  
 CSA LR81689  
 VDE 70938  
 UG (240V, 380V, DC Control Only)



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