



Series CX

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

- 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
OUTPUT SPECIFICATIONS ①				
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 ² t for Fusing, (8.3 msec.) [A ² 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

MODEL NUMBERS	DC CONTROL			AC CONTROL	
	Nominal Voltage 5Vdc	5Vdc	24Vdc	120Vac	24Vac
	CX240D5	CX380D5 CX480D5	CXE240D5 CXE380D5 CXE480D5	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 RS443, 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, Condon Close,

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GERMANY: (49) (0)6874 182580 • fax (49)(0)6874 182585 Crydom GmbH,

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CRYDOM

Control over power

Series CX

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

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 -30 to 80°C

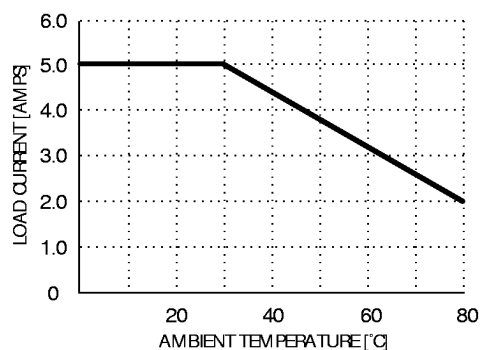
Ambient Storage Temperature Range -30 to 125°C

MECHANICAL SPECIFICATIONS

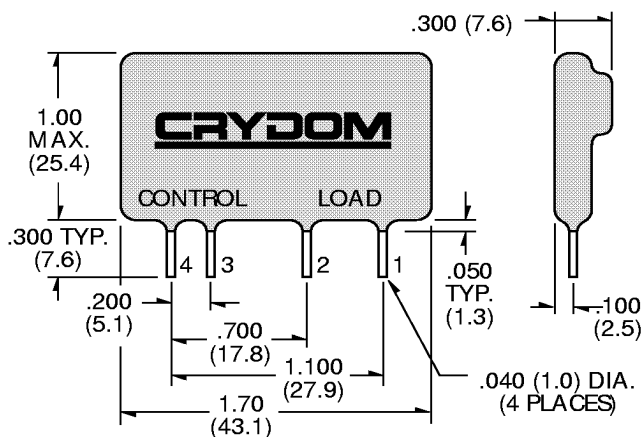
Weight: (typical) 0.4 oz. (11g)

Encapsulation: Thermally Conductive Epoxy

CURRENT DERATING CURVE



Max. Load Current vs. Temp.



AC CONTROL

PIN 1: AC LOAD
PIN 2: AC LOAD
PIN 3: AC CONTROL
PIN 4: AC CONTROL

DC CONTROL

PIN 1: AC LOAD
PIN 2: AC LOAD
PIN 3: +DC CONTROL
PIN 4: -DC CONTROL

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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