

- DIN Rail Mount (TS-35)
- SCR Output Rating
- Ultra High Surge
- Crydom's Patented Design
- Input Status LED

Crydom's family of SPST-NO relays achieves the highest power switching capability in a DIN mounted air-cooled package. Advanced features include exceptional steady state current, plus ultra-high surge ratings. Models are available to switch up to 280 Vrms with AC or DC control, and either zero-cross or random turn-on ("R") switching versions.

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

MODEL NUMBERS	AC CONTROL (120Vac)	CX240A5 - MS11
	(24Vac)	CXE240A5 - MS11
OUTPUT SPECIFICATIONS (1)	DC CONTROL (5Vdc)	CX240D5 - MS11
	(24Vdc)	CXE240D5 - MS11
Operating Voltage (47-63 Hz) [Vrms]	12-280	
Load Current Range [Arms]	.06-5	
Transient Overvoltage [Vpk]	600	
Max. Surge Current, (16.6ms) [Apk]	250	
Max. On-State Voltage Drop @ Rated Current [Vpk]	1.4	
Maximum I <sup>2</sup> t for Fusing, (8.3 msec.) [A <sup>2</sup> sec]	260	
Max. Off-State Leakage Current @ Rated Voltage [mArms]	0.1	
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] (2)	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	

INPUT SPECIFICATIONS (1)	DC CONTROL		AC CONTROL	
	Nominal Voltage	5Vdc	24Vdc	120Vac
MODEL NUMBERS	CX240D5 - MS11	CXE240D5 - MS11	CX240A5 - MS11	CXE240A5 - MS11
Control Voltage Range	3-15 Vdc	15-32 Vdc	90-140 Vrms	18-36 Vrms
Max. Turn-On Voltage	3.0 Vdc	15.0 Vdc	90.0 Vrms	18.0 Vrms
Min. Turn-Off Voltage	1.0 Vdc	1.0 Vdc	10.0 Vrms	2.0 Vrms
Nominal Input Impedance	300 Ohm	1.0k Ohm	14.1k Ohm	4.2k Ohm
Typical Input Current @ Nominal Voltage	15 mA <sub>dc</sub>	8 mA <sub>dc</sub>	10 mA <sub>Arms</sub>	5 mA <sub>Arms</sub>

## 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).



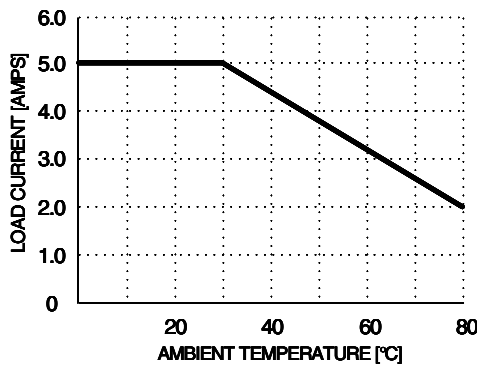
### GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz Input/Output/Base	2500 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 80 °C

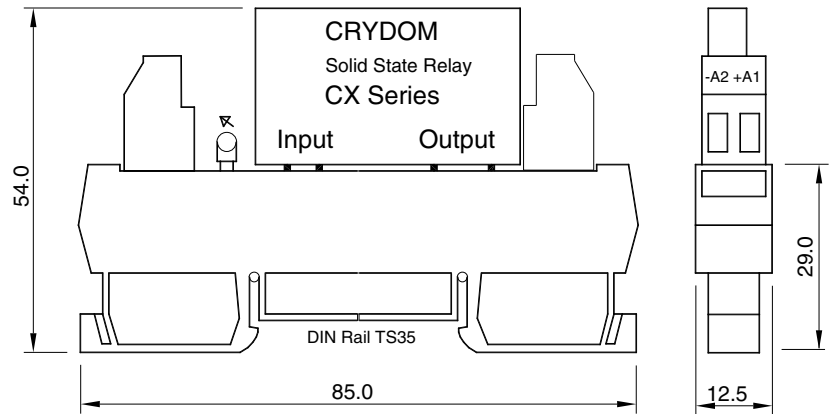
### MECHANICAL SPECIFICATIONS

Weight: (typical)	30 grms
Encapsulation (SSR):	Thermally Conductive Epoxy

### CURRENT DERATING CURVE



Max. Load Current vs. Temp.



All dimensions are in millimeters (not to scale)  
 Colour of carrier and termination housing - orange

### AVAILABLE OPTIONS

- R Random Turn-On Switching  
 Example: **CX240D5R-MS11**, **CX240A5R-MS11**

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### APPROVALS - SSR ONLY

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

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