

# CCX SERIES



- ▶ Back to back dual SCR output
- ▶ Ratings up to 5 amps at 660Vac
- ▶ Zero-crossing (resistive loads) or random-fire (inductive loads) output
- ▶ Pinout compatible with standard 0.6" I/O Modules
- ▶ UL, CSA, & VDE approved, CE Compliant



## Output Specifications

Voltage range (Vrms)	12-280Vac	48-660Vac
Peak voltage (Vpk, t = 1 min.)	600	1200
Off-state leakage mArms (@ max. line voltage & Ta = 25°C)	0.1	0.1
Output current (Arms) (see derate curve)	5	5
Minimum current (mArms)	60	60
Max. 1 cycle surge current (Apk, Ta = 25°C)	250	250
I <sup>2</sup> T (60Hz, ½ cycle)	260	260
Max. forward voltage drop (Vpk @ Imax, Ta = 25°C)	1.4	1.4
Static off-state dv/dt (V/µs, Ta = 25°C)	500	500
Power factor (min.) with max load	0.5	0.5

## Input Specifications

Input voltage	3-15Vdc	4-15Vdc
Drop out voltage	1Vdc	1Vdc
Typical input current (@5Vdc)	15 mAdc	15 mAdc
Nominal Input Resistance (Ohms)	300	240
Max. Turn-on time*	1/2 Cycle	
Max. Turn-off time	1/2 Cycle	

\* Random SSR's turn on in less than 100µs

## General Characteristics

Operating Temperature (°C)	-30 to + 80
Storage Temperature (°C)	-30 to + 125
Input to output isolation	4000Vrms
Input to output capacitance	10pF (typical)
Operating Frequency	47 to 63 Hz
Encapsulation	Thermally Conductive Epoxy
Weight (typical)	0.4 oz. (11g)

## Standards of Compliance

CE Compliant with the LVD 73/23/EEC  
 UL Recognized  
 CSA Certified  
 VDE Approved

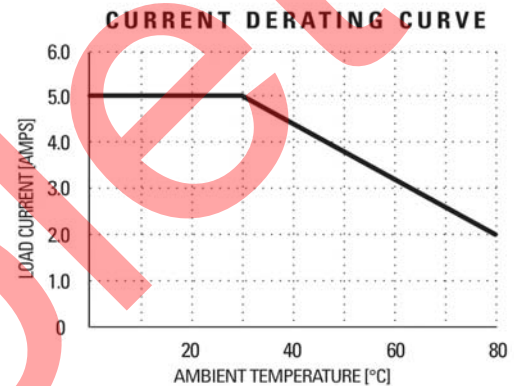
## Part Numbers

### Zero-Crossing Output (resistive loads)

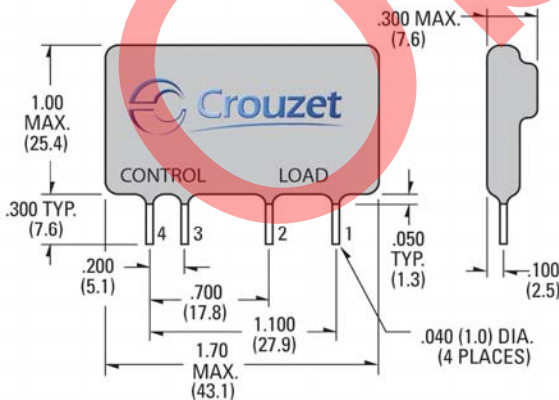
Rating	Output	Input	Part Number
5 Amp	12-280Vac	3-15VDC	CCX240D5
5 Amp	48-660Vac	4-15VDC	CCX480D5

### Random Fire Output (inductive loads)

Rating	Output	Input	Part Number
5 Amp	12-280Vac	3-15VDC	CCX240D5R
5 Amp	48-660Vac	4-15VDC	CCX480D5R



Max. Load Current vs. Temp.



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

All dimensions are in inches (millimeters)