



# Crydom

## CPF240D25

*See full Datasheet below...*

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# CPF SERIES



- ▶ Back to back dual SCR output for heavy industrial loads
- ▶ Ratings up to 25 amps at 660Vac
- ▶ Zero-crossing (resistive loads) or random-fire (inductive loads) output
- ▶ Pinout compatible with standard 0.6" I/O Modules
- ▶ UL/cUL Recognized, & 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)		
Forced Air	<b>25</b>	<b>25</b>
Convection	<b>10</b>	<b>10</b>
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 @ I <sub>max</sub> , Ta = 25°C)	1.6	1.6
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 AC Cycle	
Max. turn-off time	1/2 AC 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)	0.85 oz. (25g)

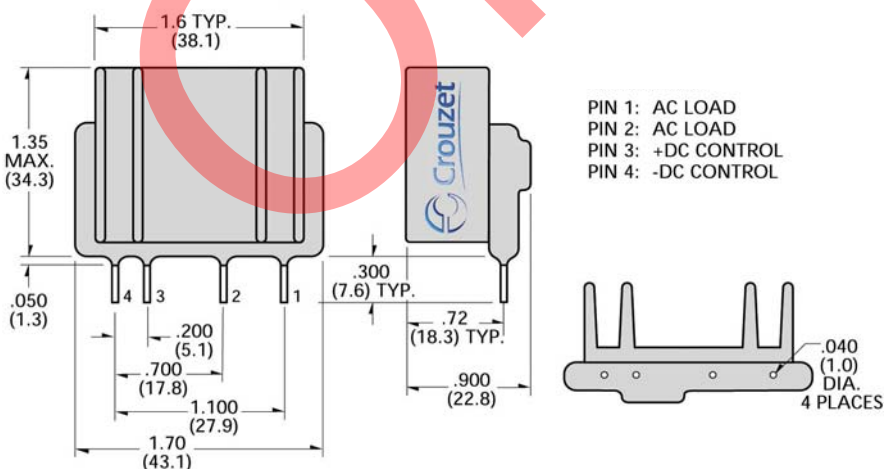
## Standards of Compliance

CE Compliant with the LVD 73/23/EEC

UL Recognized

VDE Approved

All dimensions are in inches (millimeters)



## Part Numbers

Zero-Crossing Output (resistive loads)			
Rating	Output	Input	Part Number
25 Amp	12-280Vac	3-15VDC	CPF240D25
25 Amp	48-660Vac	4-15VDC	CPF480D25
Random Fire Output (inductive loads)			
Rating	Output	Input	Part Number
25 Amp	12-280Vac	3-15VDC	CPF240D25R
25 Amp	48-660Vac	4-15VDC	CPF480D25R

## CURRENT DERATING CURVES

Fig.1 Convection Cooling

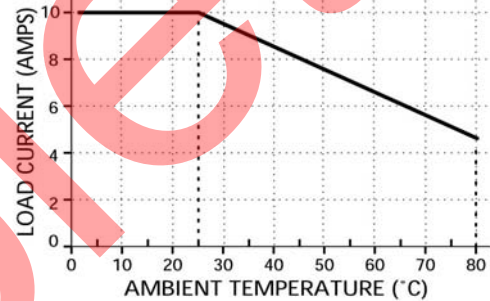


Fig.2 Forced Air Cooling

