



Series PCV

Analog Input Power Controller

- Operates at 60Hz & 50Hz
- Internal Snubber
- Industry Standard Package
- Control Circuit Requires No Adjustment or Calibration

The PCV Series proportional controllers are self contained power control modules integrating a complete phase fired logic control system and a solid state relay in the same standard package. Typical applications include heaters, vibratory feeders and tungsten lamps.

MODEL NUMBERS	7PCV2415	7PCV2425	10PCV2415	10PCV2425	10PCV2450	10PCV2475	10PCV2490
OUTPUT SPECIFICATIONS^①							
Operating Voltage (47-63 Hz) [Vrms]	100-240	100-240	100-240	100-240	100-240	100-240	100-240
Max. Load Current Range [Arms]	.15-15	.15-25	.15-50	.15-75	.15-90		
Transient Overvoltage [Vpk]	600	600	600	600	600		
Max. Surge Current, (1 Cycle) [Apk]	150	250	625	1000	1200		
Max. Off-State Leakage Current @ Rated Voltage [mA]	10	15	20	20	20		
Maximum I^2t for Fusing (8.3 msec) [A^2sec]	94	260	1620	4150	6000		
Maximum Voltage Drop (100% On) [Vpk]	1.6	1.6	1.6	1.6	1.6		
Minimum Off-State dv/dt [V/ μ sec]	200	200	200	200	200		
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5	0.5		
INPUT SPECIFICATIONS^①							
Control Voltage Range	7PCV24xx 2-7 Vdc			10PCV24xx 2-10 Vdc			
Typical Input Current @ 5 Vdc	4 mA			4 mA			

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GENERAL NOTES

① All parameters at 25° C unless otherwise specified.

TYPICAL APPLICATIONS

- Industrial Temperature Controllers
- Light Dimming
- Vibratory Feeders
- Resistive Heating Elements
- Conveyor Speed Control

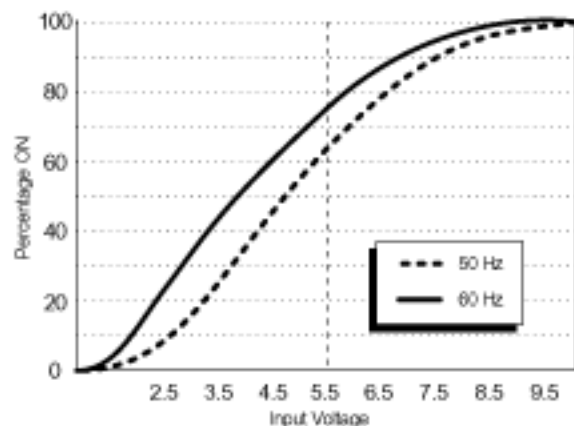
UNSUITABLE APPLICATIONS

The PCV is not suitable for some load applications including, but not limited to the following:

- AC Motor Control
- Three Phase Motors
- Transformers requiring pure sine wave input
- Zero Crossing Applications

Please contact Crydom's application engineering department for additional information and specific application questions.

Percentage On vs. Input Voltage



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CRYDOM

Control over power

Series PCV Analog Input Power Controller

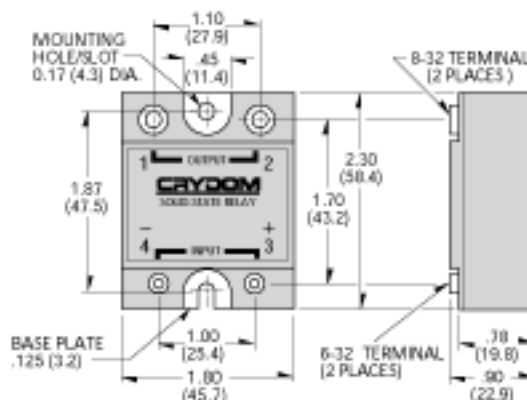
GENERAL SPECIFICATIONS

Dielectric Strength, Signal to Load	2500 Vrms
Dielectric Strength, Signal to Base	2500 Vrms
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-40 to 125°C

MECHANICAL SPECIFICATIONS

Weight: (typical)	3.5 oz. (100g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	Screws and Saddle Clamps Furnished, Unmounted

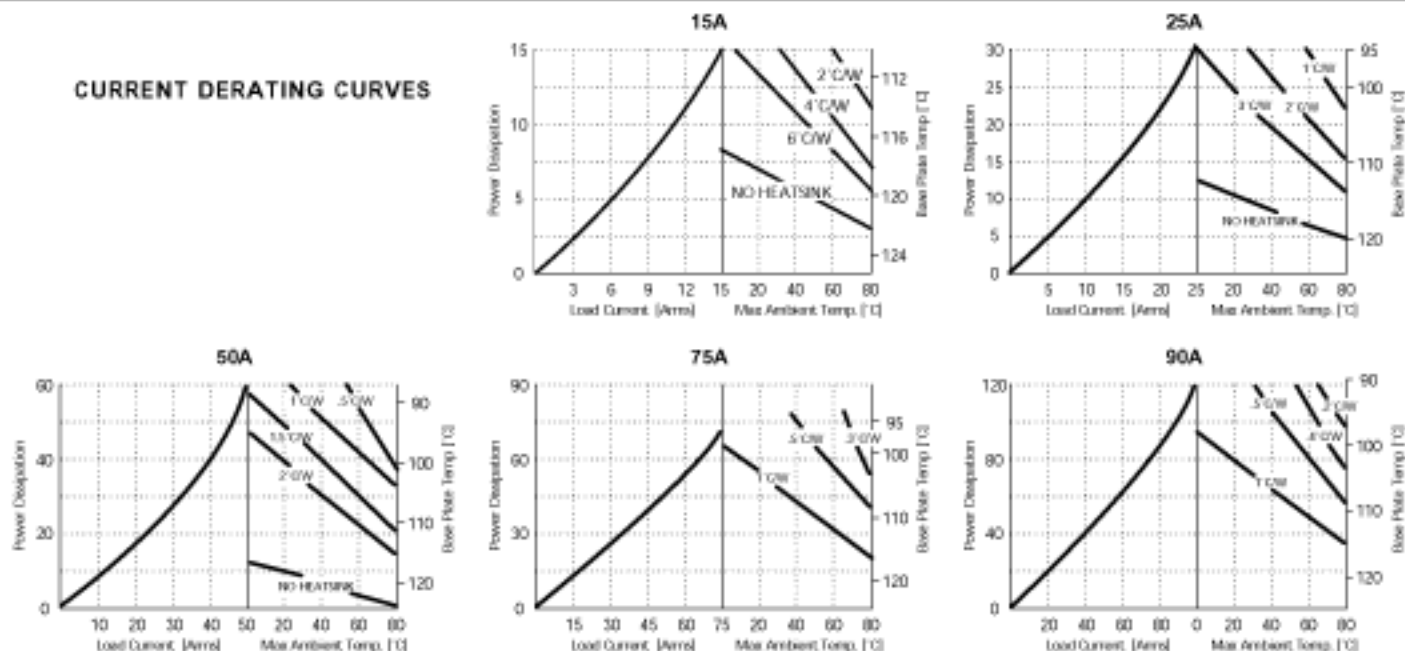
WIRING DIAGRAM



All dimensions are in inches (millimeters)

Screw Torque Requirements:
6-32 Screws - 10 in. lbs.,
8-32 and 10-32 Screws - 20 in. lbs.
(Screws dry without grease.)

CURRENT DERATING CURVES



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