

- 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 ² t for Fusing (8.3 msec) [A ² sec]	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/μsec]	200	200	200	200	200		
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5	0.5		
INPUT SPECIFICATIONS^①	7PCV24xx		10PCV24xx				
Control Voltage Range	2-7 Vdc		2-10 Vdc				
Typical Input Current @ 5 Vdc	4 mA		4 mA				

GENERAL NOTES

① All parameters at 25° C unless otherwise specified.

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TYPICAL APPLICATIONS

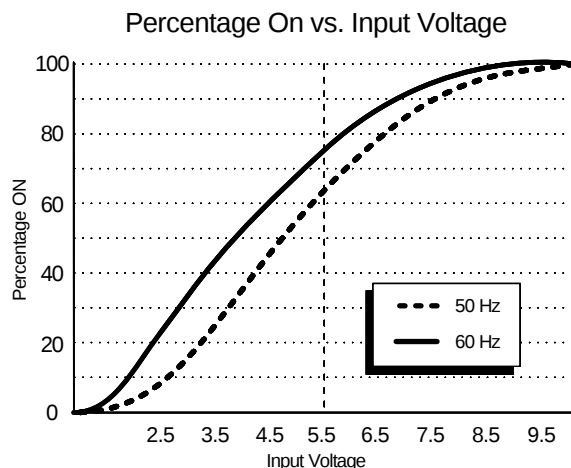
- Industrial Temperature Controllers
- Light Dimming
- Vibratory Feeders
- Resistive Heating Elements
- Conveyor Speed Control

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.



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

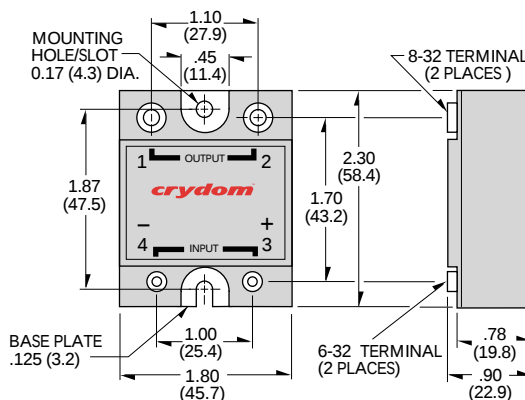
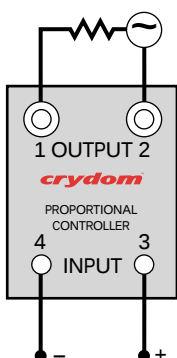
MECHANICAL SPECIFICATIONS

Weight: (typical) 3.5 oz. (100g)

Encapsulation: Thermally Conductive Epoxy

Terminals: Screws and Saddle Clamps Furnished, Unmounted

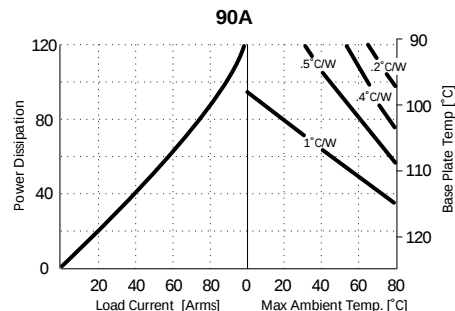
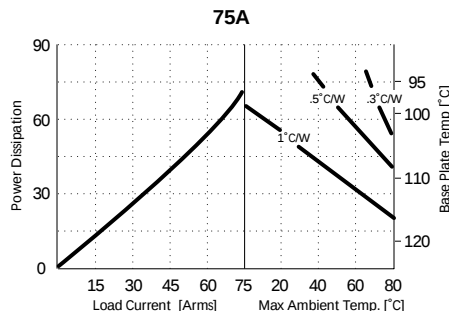
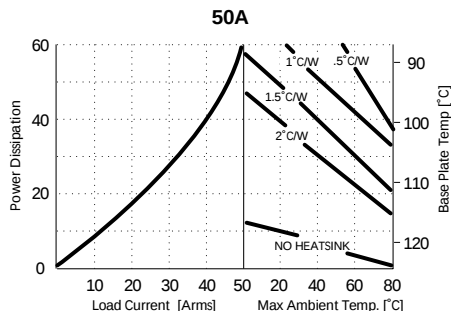
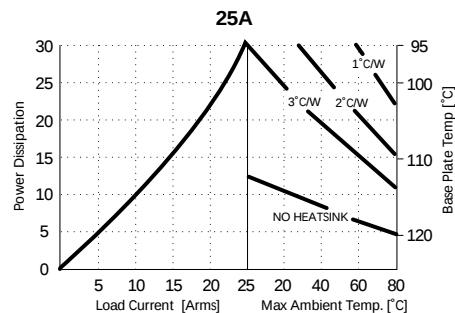
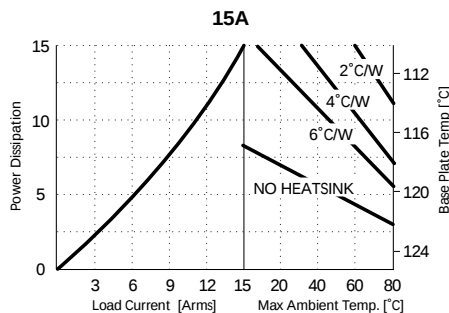
WIRING DIAGRAM



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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For recommended applications and more information contact:

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