



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
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

Control Voltage Range	7PCV24xx 2-7 Vdc	10PCV24xx 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

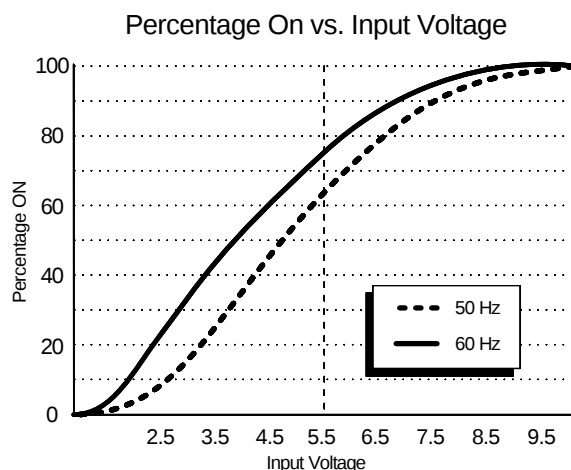
- Industrial Temperature Controllers
- Light Dimming
- Vibratory Feeders
- Resistive Heating Elements
- Conveyor Speed Control

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.



For recommended applications and more information contact:

USA: Sales Support (877) 502-5500 **Tech Support** (877) 702-7700 **FAX** (619) 710-8540
Crydom Corp, 2320 Paseo de las Americas, Ste. 201, San Diego, CA 92154

Email: sales@crydom.com **WEB SITE:** http://www.crydom.com

UK: +44 (0)1202 365070 • **FAX** +44 (0)1202 365090 Crydom International Ltd., 7 Cobham Road, Ferndown Industrial Estate, Ferndown, Dorset BH21 7PE, **Email:** intsales@crydom.com.

GERMANY: +49 (0)180 3000 506



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

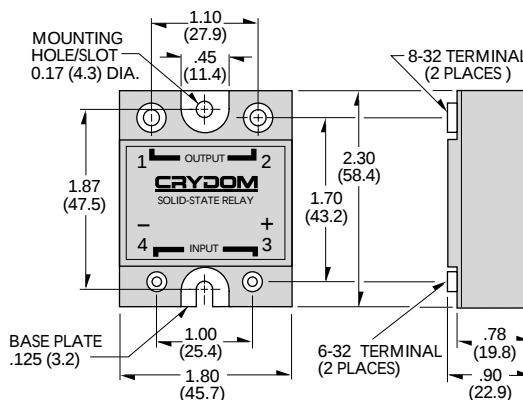
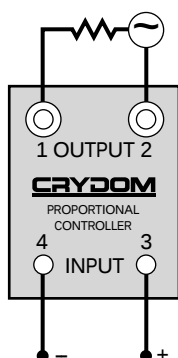
MECHANICAL SPECIFICATIONS

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

Encapsulation: Thermally Conductive Epoxy

Terminals: Screws and Saddle Clamps Furnished, Unmounted

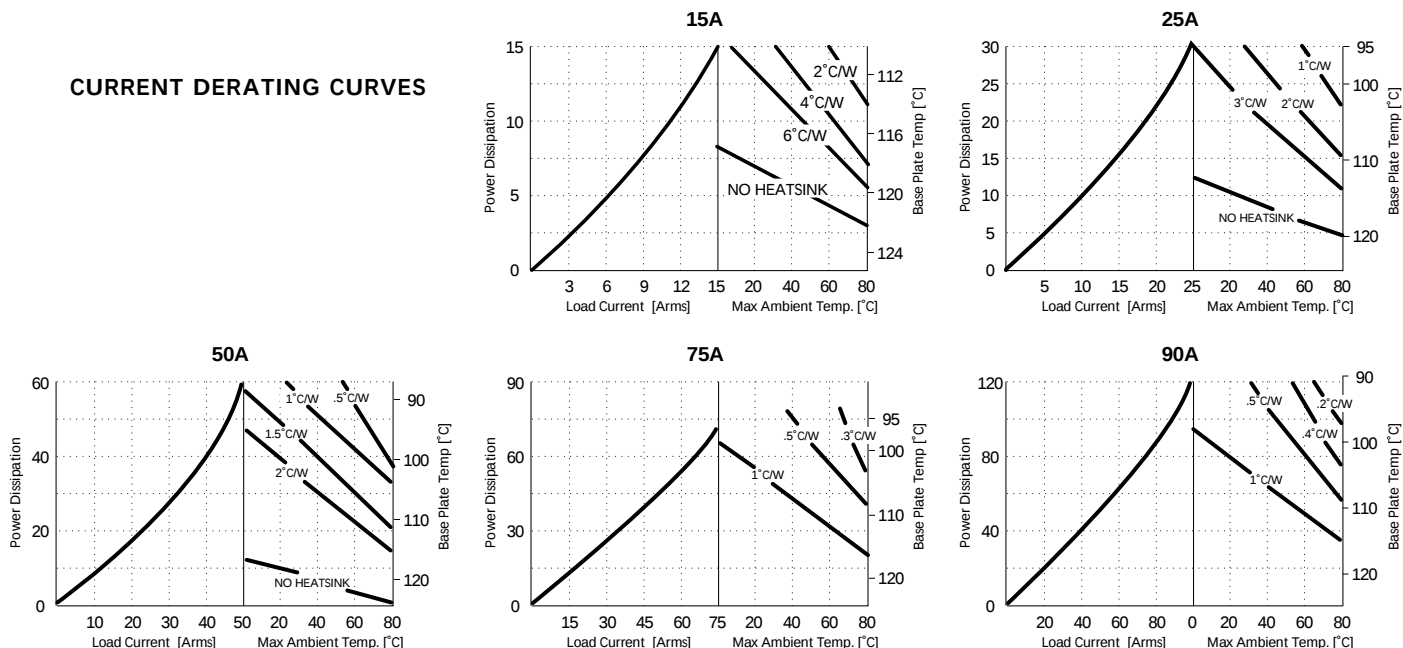
WIRING DIAGRAM



All dimensions are in inches (millimeters)

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

CURRENT DERATING CURVES



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