

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.

CRYDOM

Control over power

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

	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

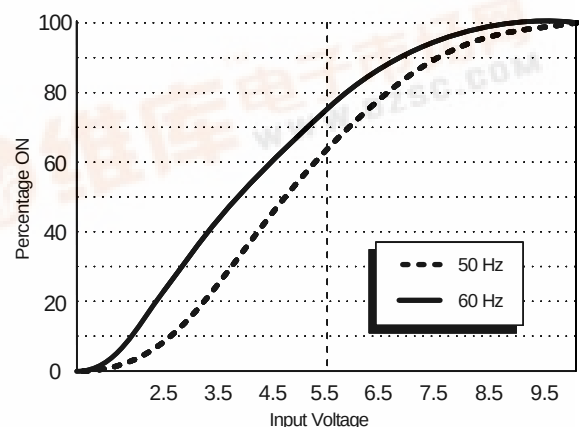
UNSUITABLE APPLICATIONS

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.

Percentage On vs. Input Voltage



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





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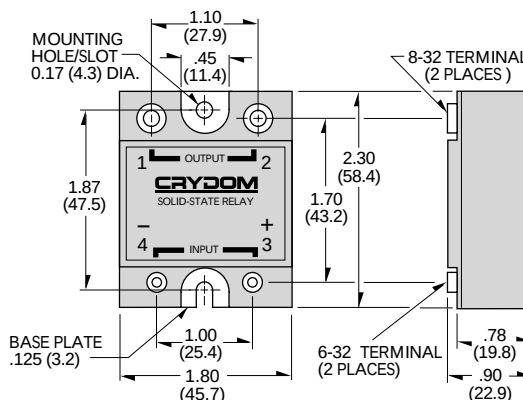
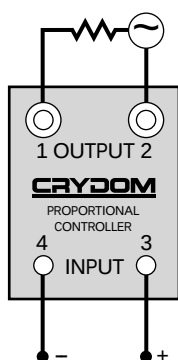
GENERAL SPECIFICATIONS

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

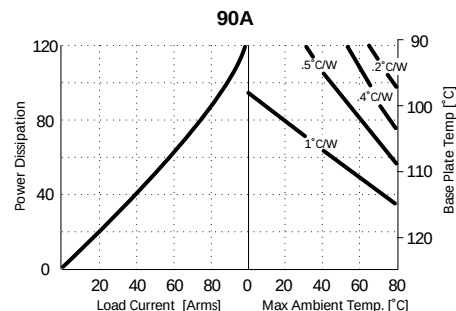
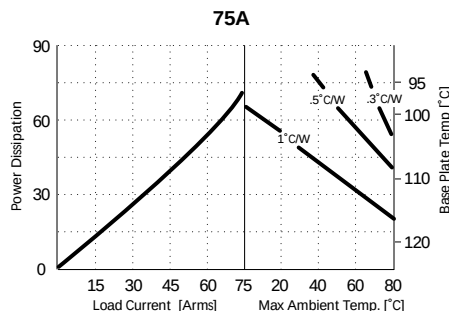
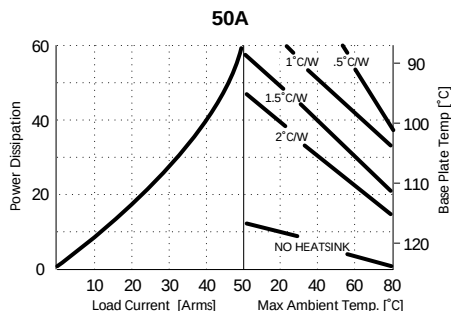
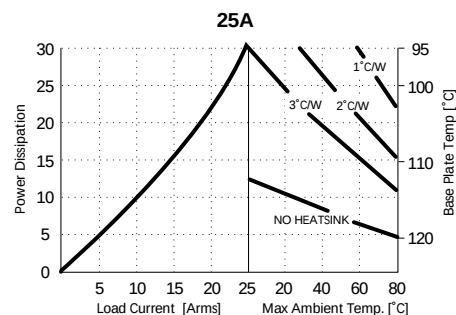
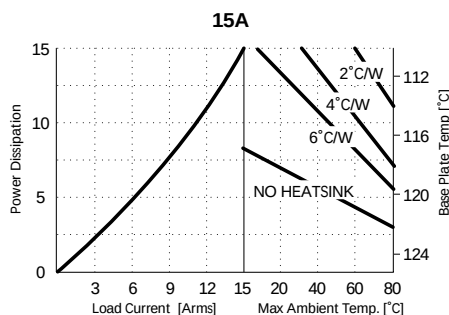
WIRING DIAGRAM



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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