

- Uses Potentiometer for Economical Power Control
- Industry Standard Package

The RPC series proportional controllers provide a cost effective method of controlling power in many different applications such as heaters, universal motors or incandescent lamps. A customer provided potentiometer is all that is required for control. All modules are supplied with KS100 protective cover.

8	MODEL	NUMBERS	RPC1215	RPC1225	RPC1240	RPC2415	RPC2425	RPC2440	RPC4815	RPC4825	RPC4840
<b>OUTPUT SPECIFICATIONS ①</b>											
	Operating Voltage (47-63 Hz) [Vac]		90-130	90-130	90-130	200-240	200-240	200-240	400-480	400-480	400-480
	Max. Load Current ③ [Arms]		15	25	40	15	25	40	15	25	40
	Min. Load Current, [mArms]		70	80	90	70	80	90	70	80	90
	Transient Overvoltage [Vpk]		400	400	400	600	600	600	1200	1200	1200
	Max. Surge Current, (16.6ms) [Apk]		150	250	625	150	250	625	150	250	625
	Max. On-State Voltage Drop @ Rated Current [Vpk]		1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	Thermal Resistance Junction to Case [R <sub>θJC</sub> ]		1.48	1.02	.63	1.48	1.02	.63	1.48	1.02	.63
	Maximum I <sup>2</sup> t for Fusing, (8.3 msec.) [A <sup>2</sup> sec]		94	260	1620	94	260	1620	94	260	1620
	Max. Off-State Leakage Current @ Rated Voltage [mArms]		10	10	10	7	7	7	3	3	3
	Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec]②		500	500	500	500	500	500	500	500	500
	Max. Turn-On Time ④ [msec]										
	Max. Turn-Off Time [msec]										
	Power Factor (Min.) with Max. Load		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Snubber (Internal)		yes	yes	yes	yes	yes	yes	no	no	no

## INPUT SPECIFICATIONS ①

Resistor, Variable [Ohms] ④	150K (1W)	150K (1W)	150K (1W)	1M (1/2W)	1M (1/2W)	1M (1/2W)	1M (1/2W)	1M (1/2W)	1M (1/2W)	1M (1/2W)
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## GENERAL NOTES

- ① All parameters at 25°C unless otherwise specified.
- ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- ③ Heat sinking required, for derating curves see page 2.
- ④ Potentiometer should be selected with regards to line voltage isolation.

## WARNING

Control to load is not isolated, exercise care in handling the RPC products to avoid the risk of electric shock.

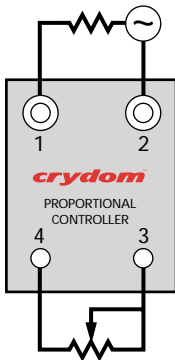
### GENERAL SPECIFICATIONS

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

### MECHANICAL SPECIFICATIONS

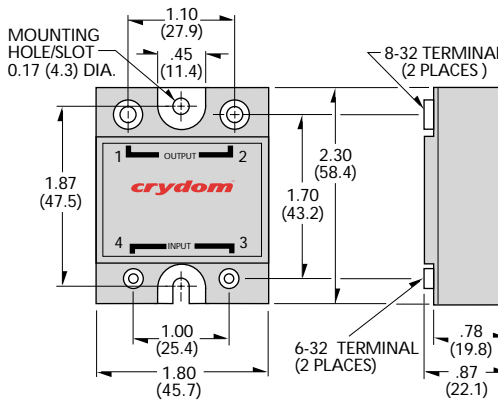
Weight: (typical)	3.2oz. (90g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	Screws and Saddle Clamps Furnished, Unmounted

### WIRING DIAGRAM



**CAUTION**  
All terminals are at Line Voltage Potential.

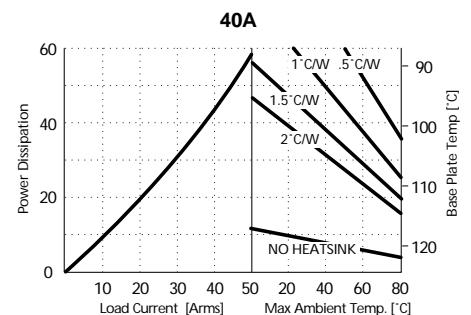
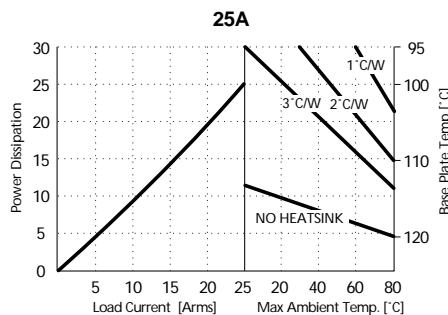
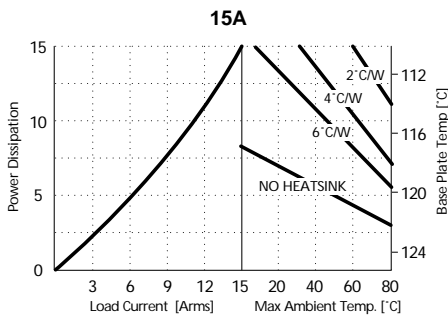
Variable Resistance



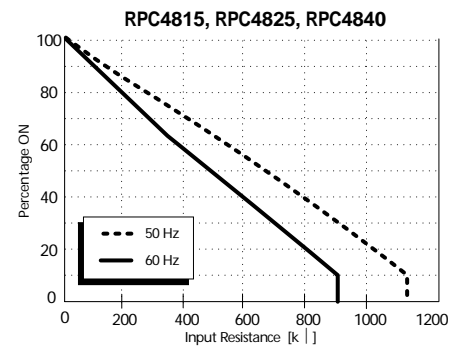
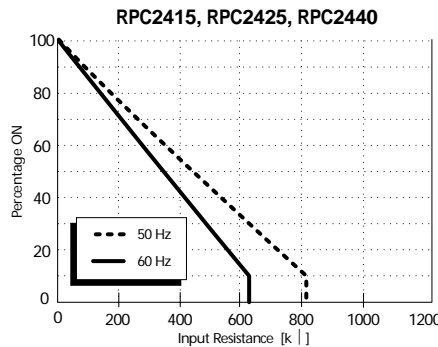
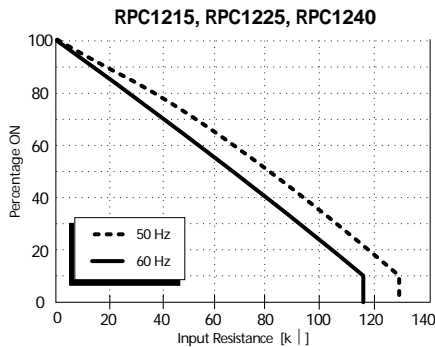
All dimensions are in inches (millimeters)

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

### CURRENT DERATING CURVES



### PERCENTAGE ON vs. INPUT RESISTANCE



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