

RPC Series



- Proportional controller
- Ratings from 15A to 40A @ 480 VAC
- 500k or 1M Ohm potentiometer control

PRODUCT SELECTION

Description	15 A	25 A	40 A
120 VAC	RPC1215	RPC1225	RPC1240
240 VAC	RPC2415	RPC2425	RPC2440
480 VAC	RPC4815	RPC4825	RPC4840

OUTPUT SPECIFICATIONS (voltage) (1)

Description	120 VAC	240 VAC	480 VAC
Operating Voltage (47-63Hz) [Vrms]	90-130	200-240	400-480
Transient Overvoltage [Vpk]	400	600	1200
Maximum Off-State Leakage Current @ Rated Voltage [mA rms]	10	7	3
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] (2)	5000	500	500
Snubber (Internal)	yes	yes	no

OUTPUT SPECIFICATIONS (current) (1)

Description	15 A	25 A	40 A
Maximum Load Current [Arms] (3)	15	25	40
Minimum Load Current [mA rms]	70	80	90
Maximum Surge Current (16.6ms) [A pk]	150	250	625
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.6	1.6	1.6
Thermal Resistance Junction to Case (Rjc) [°C/W]	1.48	1.02	0.63
Maximum I ² t for Fusing (8.3 msec) [A ² sec]	94	260	1620

INPUT SPECIFICATIONS (1)

Description	120 VAC	240 VAC	480 VAC
Variable Resistor Size (4)	150K (1W)	1M (1/2W)	1M (1/2W)

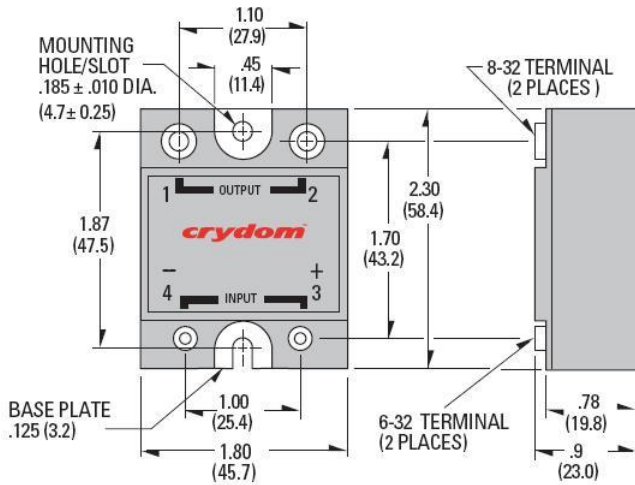
GENERAL SPECIFICATIONS

Description	
Minimum Power Factor (with Maximum Load)	0.6
Dielectric Strength, Input/Output/Base (50/60Hz)	2500 Vrms
Ambient Operating Temperature Range	-30 to 80 °C
Ambient Storage Temperature Range	-40 to 125 °C
Weight (typical)	3.2 oz (90g)
Encapsulation	Thermally conductive Epoxy
Terminals	Screws and saddle Clamps Furnished, Unmounted
Recommended Terminal Screw Torque Range:	6-32 Screws -10 in. lbs. 8-32 and 10-32 Screws -20 in. lbs. (Screws dry without grease)

GENERAL NOTES

- 1) All parameters at 25°C unless otherwise specified.
- 2) Off-State dv/dt test method per EIA/NARM standard RS-443
- 3) Heat sinking required, see derating curves.
- 4) Potentiometer should be line voltage rated.

MECHANICAL SPECIFICATIONS



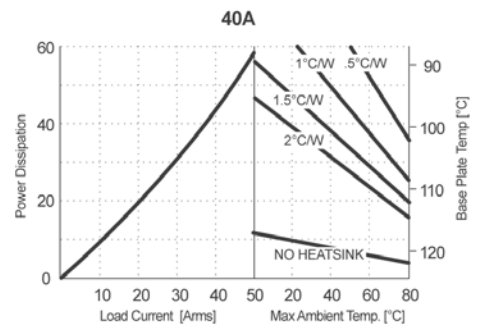
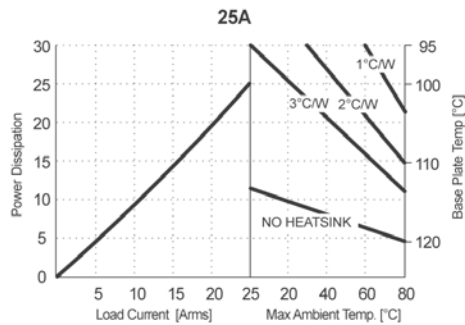
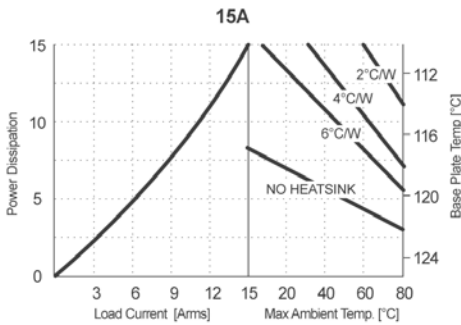
All dimensions are in inches (millimeters)

WIRING DIAGRAM

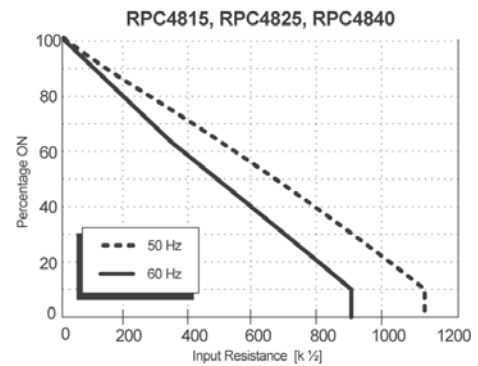
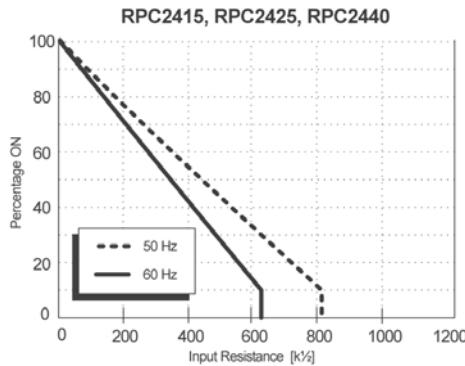
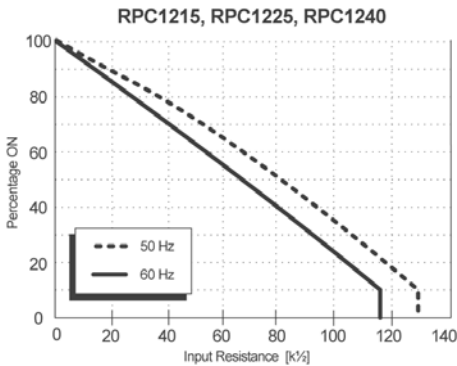


All terminals are at Line Voltage Potential.

THERMAL DERATE INFORMATION



PERCENTAGE ON VS INPUT RESISTANCE



AGENCY APPROVALS

