

- 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.

MODEL NUMBERS	RPC1215	RPC1225	RPC1240	RPC2415	RPC2425	RPC2440	RPC4815	RPC4825	RPC4840	
OUTPUT SPECIFICATIONS ①										
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 _{θJC}]	1.48	1.02	.63	1.48	1.02	.63	1.48	1.02	.63	
Maximum I ² t for Fusing, (8.3 msec.) [A ² 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)
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GENERAL NOTES

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- 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.
- ⑤ Variable resistance terminals (3,4) are not isolated from output terminals (1,2).

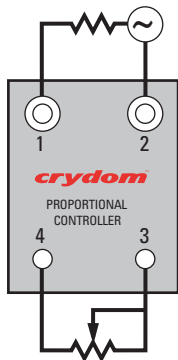
GENERAL SPECIFICATIONS

Dielectric Strength, All Terminals to Base ⑤	2500 Vrms
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-40 to 125°C

MECHANICAL SPECIFICATIONS

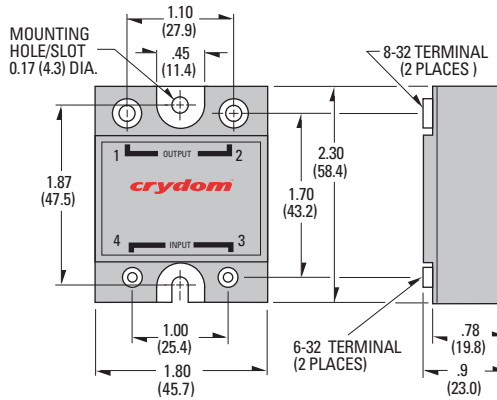
Weight: (typical)	3.2oz. (90g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	Screws and Saddle Clamps Furnished, Unmounted

WIRING DIAGRAM



All terminals are at Line Voltage Potential.

Variable Resistance

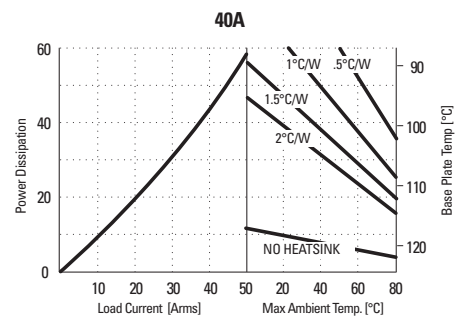
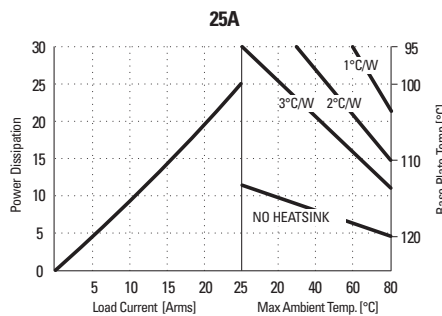
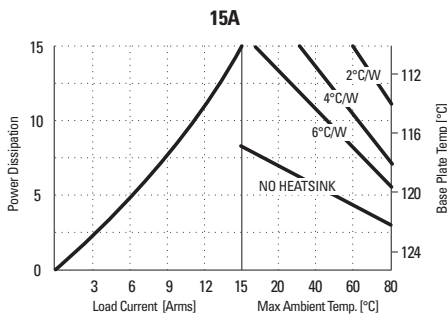


All dimensions are in inches (millimeters)

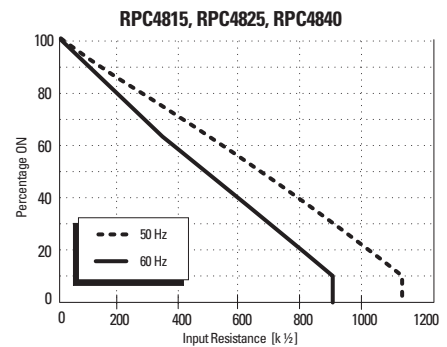
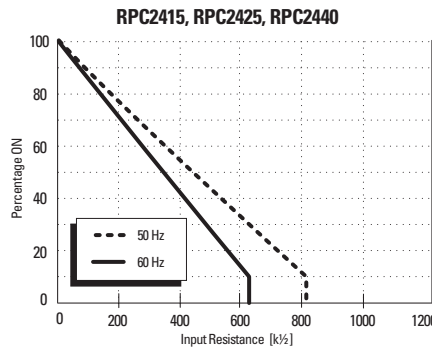
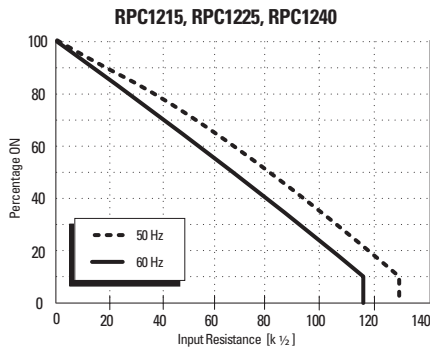
Screw Torque Requirements:

6-32 Screws - 10 in. lbs. (1.1 Nm),
8-32 and 10-32 Screws - 20in. lbs. (2.2 Nm)
(Screws dry without grease.)

CURRENT DERATING CURVES



PERCENTAGE ON vs. INPUT RESISTANCE



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**DANGER / PELIGRO / DANGER /GEFAHR / PERICOLO / PERIGO**

<p>HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH.</p> <ul style="list-style-type: none"> • Disconnect all power before installing or working with this equipment. • Verify all connections and replace all covers before turning on power. <p>Failure to follow these instructions will result in death or serious injury.</p>	<p>RIESGO DE DESCARGA ELECTRICA O EXPLOSION.</p> <ul style="list-style-type: none"> • Desconectar todos los suministros de energia a este equipo antes de trabajar con este equipo. • Verificar todas las conexiones y colocar todas las tapas antes de energizar el equipo. <p>El incumplimiento de estas instrucciones puede provocar la muerte o lesiones serias.</p>	<p>RISQUE DE DESCARGE ELECTRIQUE OU EXPLOSION</p> <ul style="list-style-type: none"> • Eteindre toutes les sources d'énergie de cet appareil avant de travailler dessus de cet appareil • Vérifier tous connections, et remettre tous couverts en place avant de mettre sous <p>De non-suivi de ces instructions provoquera la mort ou des lésions sérieuses.</p>	<p>GEFAHR EINES ELEKTRISCHE N SCHLAGES ODER EINER EXPLOSION.</p> <ul style="list-style-type: none"> • Stellen Sie jeglichen Strom ab, der dieses Gerät versorgt, bevor Sie an dem Gerät Arbeiten durchführen • Vor dem Drehen auf Energie alle Anschlüsse überprüfen und alle Abdeckungen ersetzen. <p>Unterlassung dieser Anweisungen können zum Tode oder zu schweren Verletzungen führen.</p>	<p>RISCHIO DI SCOSSA ELETTRICA O DELL'ESPLOSIONE.</p> <ul style="list-style-type: none"> • Spenga tutta l'alimentazione e che fornisce questa apparecchiatura prima del lavorare a questa apparecchiatura • Verificare tutti i collegamenti e sostituire tutte le coperture prima della rotazione sull'alimentazione <p>L'omissione di seguire queste istruzioni provocherà la morte o di lesioni serie</p>	<p>RISCO DE DESCARGA ELÉTRICA OU EXPLOÇÃO</p> <ul style="list-style-type: none"> • Desconectar o equipamento de toda a energia antes de instalar ou trabalhar com este equipamento • Verificar todas as conexões e recolocar todas as tampas antes de religar o equipamento <p>O não cumprimento destas instruções pode levar à morte ou lesões sérias.</p>
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**WARNING / AVERTISSEMENT / WARNUNG /ADVERTENCIA / AVVERTENZA / AVISO**

<p>RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE</p> <ul style="list-style-type: none"> • The product's side panels may be hot, allow time for product to cool before touching. • Follow proper mounting instructions including torque values. • Do not allow liquids or foreign objects to enter this product. <p>Failure to follow this instruction can result in serious injury, or equipment damage.</p>	<p>RISQUE DE DOMMAGE MATERIEL ET DE SURCHAUFFE DU BOITIER</p> <ul style="list-style-type: none"> • Les panneaux latéraux du produit peuvent être chauds. Laisser le produit refroidir avant de le toucher. • Respecter les consignes de montage, et notamment les couples de serrage. • Ne pas laisser pénétrer de liquide ni de corps étrangers à l'intérieur du produit. <p>Le non-respect de cette directive peut entraîner, des lésions corporelles graves ou des dommages matériels.</p>	<p>GEFAHR VON MATERIALSCHÄDEN UND GEHÄUSEERHITZUNG</p> <ul style="list-style-type: none"> • Die Seitenwände können heiß sein. Lassen Sie das Produkt abkühlen, bevor Sie es berühren. • Beachten Sie die Montageanweisungen, • Führen Sie keine Flüssigkeiten oder Fremdkörper in das Produkt ein. <p>Die Nichtbeachtung dieser Anweisung kann Körperverletzung oder Materialschäden zur Folge haben.</p>
<p>RIESGO DE DAÑOS MATERIALES Y DE SOBRECIENTAMIENTO DE LA UNIDAD</p> <ul style="list-style-type: none"> • Los paneles laterales del producto pueden estar calientes. Esperar que el producto se enfríe antes de tocarlo. • Respetar las instrucciones de montaje, y en particular los pares de apretado. • No dejar que penetren líquidos o cuerpos extraños en el producto. <p>Si no se respetan estas precauciones pueden producirse graves lesiones, daños materiales.</p>	<p>RISCHIO DI DANNI MATERIALI E D'INVOLUCRO CALDO</p> <ul style="list-style-type: none"> • I pannelli laterali dell'apparecchio possono scottare; lasciar quindi raffreddare il prodotto prima di toccarlo. • Seguire le istruzioni di montaggio corrette. • Non far entrare liquidi o oggetti estranei in questo apparecchio. <p>La mancata osservanza di questa precauzione può causare gravi rischi per l'incolumità personale o danni alle apparecchiature.</p>	<p>RISCO DE DANO MATERIAL E DE AQUECIMENTO CALDO</p> <ul style="list-style-type: none"> • Os painéis laterais do produto podem estar quentes; dê tempo ao produto para arrefecer antes de lhe tocar. • Siga devidamente as instruções de montagem. • Não permita a entrada de líquidos e de objectos estranhos no produto. <p>A não observância destas precauções pode provocar a morte, ferimentos graves ou danos materiais.</p>