



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CPV Series

- Phase control modules
- 120/240 VAC models
- 0-5 V DC phase control
- Used with Series 1 random-fire solid-state relays

PRODUCT SELECTION

Control Voltage	10 A	25 A	50 A	75 A	90 A
120 VAC	10CPV120	25CPV120	50CPV120	75CPV120	90CPV120
240 VAC	10CPV240	25CPV240	50CPV240	75CPV240	90CPV240

OUTPUT SPECIFICATIONS (voltage) ⁽¹⁾

Description	120 VAC	240 VAC
Operating Voltage (47-63Hz) [Vrms]	90-140 VAC	180-280 VAC
Transient Overvoltage [Vpk]	400	600
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	10	10
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] ⁽²⁾	500	500

OUTPUT SPECIFICATIONS (current) ⁽¹⁾

Description	10 A	25 A	50 A	75 A	90 A
Maximum Load Current ⁽³⁾ [Arms]	10	25	75	50	90
Minimum Load Current [Arms]	0.04	0.04	0.04	0.04	0.04
Maximum Surge Current (16.6ms) [Apk]	120	250	625	1000	1200
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.6	1.6	1.6	1.6	1.6
Thermal Resistance Junction to Case (Rjc) [°C/W]	1.48	1.02	0.31	0.63	0.28
Maximum I ² t for Fusing (8.3 msec) [A ² sec]	60	260	4150	1620	6000
Minimum Power Factor (with Maximum Load)	0.5	0.5	0.5	0.5	0.5

CONTROL MODULE INPUT SPECIFICATIONS ⁽¹⁾

Description	DC Control
Control Voltage Range	0-5 VDC
Minimum Turn-Off Voltage	1.0 VDC
Typical Supply Current	1.6 mA @ 5 VDC
Nominal Control Input Impedance	1500 Ohm
Maximum Turn-On Time [msec]	0.02
Maximum Turn-Off Time [msec]	1/2 Cycle

CONTROL MODULE OUTPUT SPECIFICATIONS (Terminal 4B - Input to Relay) ⁽¹⁾

Description	DC Control
Maximum Off-State Operating Voltage	36 VDC
Maximum Load Current (Sink)	3.0 mA
Maximum On-State Voltage @ 3 mA	0.5 VDC
Max. Off State Leakage @ 10 VDC	1.0 μADC

GENERAL SPECIFICATIONS ⁽¹⁾

Description	Parameters
Dielectric Strength, signal to load	4000 Vrms
Dielectric Strength, signal to Base	4000 Vrms
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-40 to 125°C
Weight (typical)	3.0 oz. (43g)
Encapsulation	Themally Conductive Epoxy

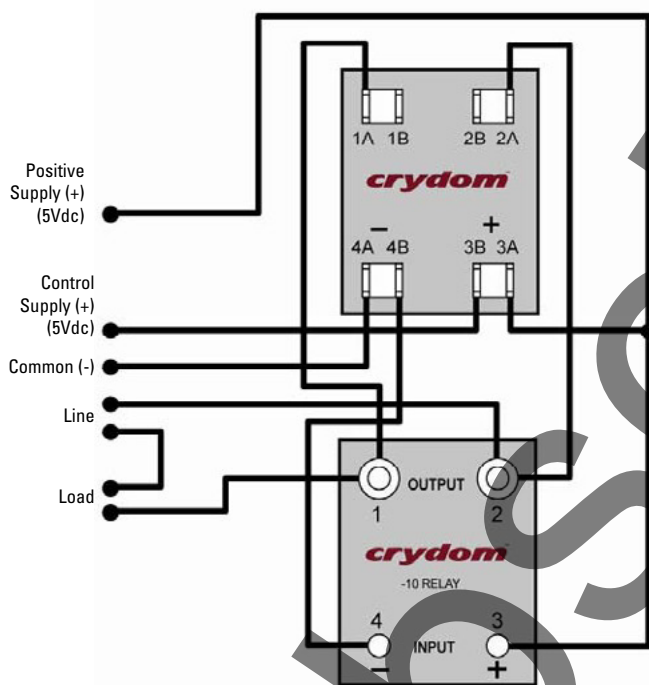
GENERAL NOTES

- (1) Specifications @ 25°C unless otherwise specified.
- (2) Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1.3)
- (3) Heat sinking required (relay only), see derating curves.

AVAILABLE OPTIONS

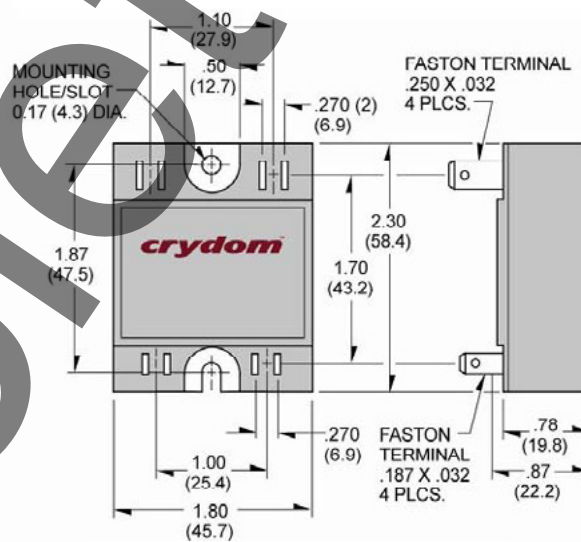
- CPV120 Control Module Only (120 Vac Line)
- CPV240 Control Module Only (240 Vac Line)

WIRING DIAGRAM



MECHANICAL SPECIFICATIONS

Tolerances: ±0.02 in / 0.5 mm
All dimensions are in: inches [millimeters]



AGENCY APPROVALS



Rev. 082709

! DANGER / PELIGRO / DANGER /GEFAHR / PERICOLO / 危险

<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 connexions, et remettre tous couverts en place avant de mettre sous <p>De non-suivi de ces instructions provoquera la mort ou des lésions sérieuses sérieuses.</p>	<p>GEFAHR EINES ELEKTRISCHEN 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 che fornisce questa apparecchiatura prima di lavorare a questa apparecchiatura Verificare tutti i collegamenti e sostituire tutte le coperture prima dell'accensione <p>L'omissione di queste istruzioni provocherà la morte o lesioni serie</p>	<p>存在电击、爆炸或电弧闪烁危险</p> <ul style="list-style-type: none"> 在操作此设备之前请先关闭电源。 <p>若不遵守这些说明,可能会导致严重的人身伤害甚至死亡。</p>
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! WARNING / AVERTISSEMENT / WARNUNG /ADVERTENCIA / AVVERTENZA / 警告

<p>RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE</p> <ul style="list-style-type: none"> The product's side panels may be hot, allow the 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 these instructions 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>材料损坏和高温外壳的危险性</p> <ul style="list-style-type: none"> 产品的一侧面板可能很热, 在其冷却前请不要触碰。 遵照正确的安装说明, 包括扭矩值。 请勿让液体及其他异物进入本产品。 <p>如不能正确执行这些操作说明, 极有可能造成严重人体伤害或者设备的损坏。</p>

ANNEX - ENVIROMENTAL INFORMATION

The environmental information disclosed in this annex including the EIP Pollution logo are in compliance with People's Republic of China Electronic Industry Standard SJ/T11364 – 2006, Marking for Control of Pollution Caused by Electronic Information Products.

Part Name	Toxic or hazardous Substance and Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Semiconductor die	X	○	○	○	○	○
Solder	X	○	○	○	○	○

附件 - 环保信息

此附件所标示的包括电子信息产品污染图标的环保信息符合中华人民共和国电子行业标准 SJ/T11364 - 2006, 电子信息产品污染控制标识要求。

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
半导体芯片	X	○	○	○	○	○
焊接点	X	○	○	○	○	○

