CW48 Series

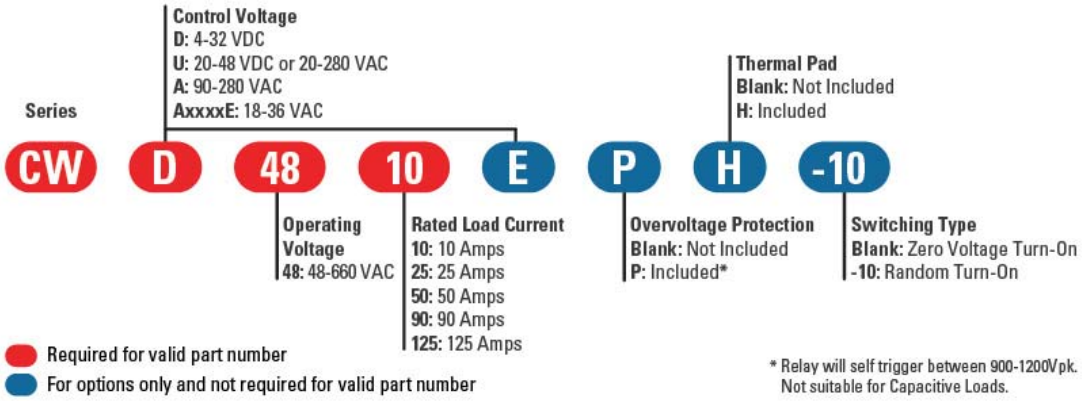


- Ratings from 10A to 125A @ 24-280 VAC and 48-660 VAC
- SCR output for heavy industrial loads
- EMC Compliant for reliable operation in harsh environments
- Removable IP 20 touch-safe cover
- DBC substrate for superior thermal performance
- LED input status indicator
- AC or DC input, and Universal AC/DC input
- Zero-corssing (resistive loads) or random-fire (inductive loads) output
- UL/CSA/TUV Approved, CE Compliant to EN60950-1

PRODUCT SELECTION

Description	10A	25A	50A	90A	125A
4-32 VDC	CWD4810	CWD4825	CWD4850	CWD4890	CWD48125
90-280 Vrms	CWA4810	CWA4825	CWA4850	CWA4890	CWA48125
18-36 Vrms	CWA4810E	CWA4825E	CWA4850E	CWA4890E	CWA48125E
20-48 VDC/ 20-280 Vrms	CWU4810	CWU4825	CWU4850	CWU4890	CWU48125

AVAILABLE OPTIONS



OUTPUT SPECIFICATIONS (1)

Description	10A	25A	50A	90A	125A
Operating Voltage (47-440Hz) [Vrms] (8)	48-660	48-660	48-660	48-660	48-660
Transient Overvoltage [Vpk]	1200	1200	1200	1200	1200
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	1.0	1.0	1.0	1.0	1.0
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/µsec] (2)	500	500	500	500	500
Maximum Load Current (3) [Arms]	10	25	50	90	125
Minimum Load Current [Arms]	0.15	0.15	0.15	0.25	0.25
Maximum 1 Cycle Surge Current (50/60) [Apk]	380/400	570/600	810/850	1290/1350	1900/2000
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.3	1.3	1.3	1.3	1.25
Thermal Resistance Junction to Case (Rjc) [°C/W]	0.35	0.35	0.2	0.14	0.13
Maximum I^2t for Fusing 50/60Hz (1/2 cycle) [A^2 sec]	720/660	1620/1500	3280/3000	8320/7560	18000/16600
Minimum Power Factor (with Maximum Load)	0.5	0.5	0.5	0.5	0.5
HP Rating UL 508/IEC60947 [HP (KW)]: 120 VAC	0.5 (0.4)	1 (0.7)	2 (1.5)	3 (2.2)	5 (3.7)
HP Rating UL 508/IEC60947 [HP (KW)]: 240 VAC	1.5 (1.1)	3 (2.2)	5 (3.7)	7.5 (5.6)	10 (7.5)
HP Rating UL 508/IEC60947 [HP (KW)]: 480 VAC	2.5 (1.9)	5 (3.7)	7.5 (5.6)	10 (7.4)	15 (11.2)

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A brand of CST CUSTOM SENSORS & TECHNOLOGIES

INPUT SPECIFICATIONS (1)

Description	CWD	CWA	CWAxxxxE	CWU
Control Voltage Range	4-32 VDC	90-280 Vrms	18-36 Vrms	20-48 VDC/ 20-280 Vrms
Minimum Turn-On Voltage	4 VDC	90 Vrms	18 Vrms	19 VDC/ Vrms
Minimum Turn-Off Voltage	1 .0 VDC	10 Vrms	2 Vrms	5 VDC/ Vrms
Typical Input Current	10 mA @ 12 VDC	6 mA @ 120 Vrms	24 mA @ 24 Vrms	10 mA @ 48VDC/17 mA @ 280Vrms
Nominal Input Impedance	See note 5	14.2 K Ohms (6)	1.0 K Ohms	See note 5
Maximum Turn-On Time [msec] (4)(7)	1/2 Cycle	50	50	17
Maximum Turn-Off Time [msec]	1/2 Cycle	50	50	30

GENERAL SPECIFICATIONS

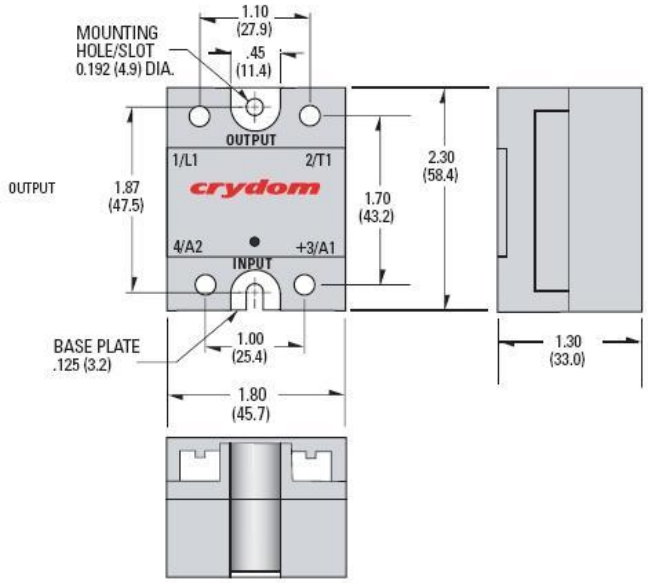
Description	Parameters
Dielectric Strength, Input/Output/Base (50/60Hz)	4000 Vrms
Minimum Insulation Resistance (@ 500 V DC)	10^9 Ohm
Maximum Capacitance, Input/Output	8 pF
Ambient Operating Temperature Range	-40 to 80 °C
Ambient Storage Temperature Range	-40 to 125 °C
Weight (typical)	3.0 oz (86.5 g)
Encapsulation	None
Terminals	Screw Type, Finger Proof Output: 8-32, Combo rive Input: 6-32, Combo Drive
Max. Torque	Output: 20 in lb (2.2Nm) Input: 10 in lb (1.1Nm)
Max. Wire Size	Output:2 x AWG 8 (3.8mm) Input: 2 x AWG 12 (2.5mm)

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) Turn-on time for random turn-on version is 0.02 msec.
5) Input circuit incorporates active current limiter
6) 21.5K ohms for random turn-on version (-10 suffix)
7) For CWU random version is 7 msec.
8) CWU versions are approved by UL only..
.

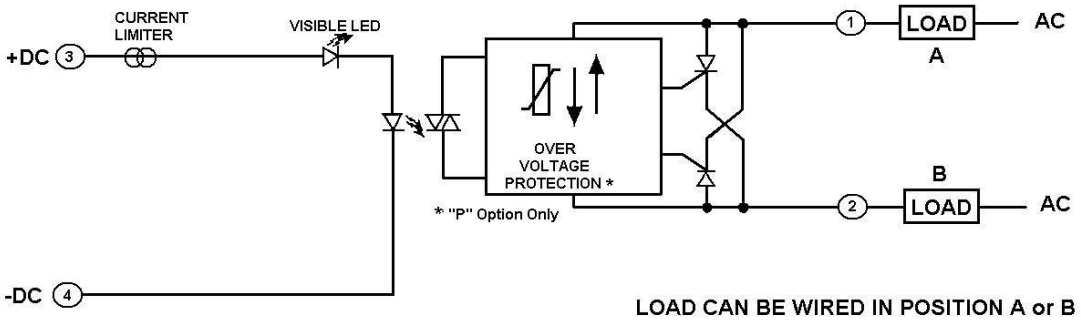
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MECHANICAL SPECIFICATIONS

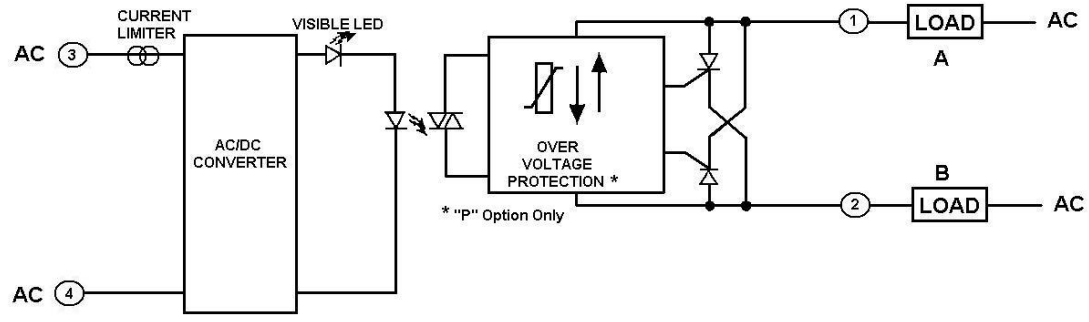


All dimensions are in inches (millimeters)

WIRING DIAGRAM



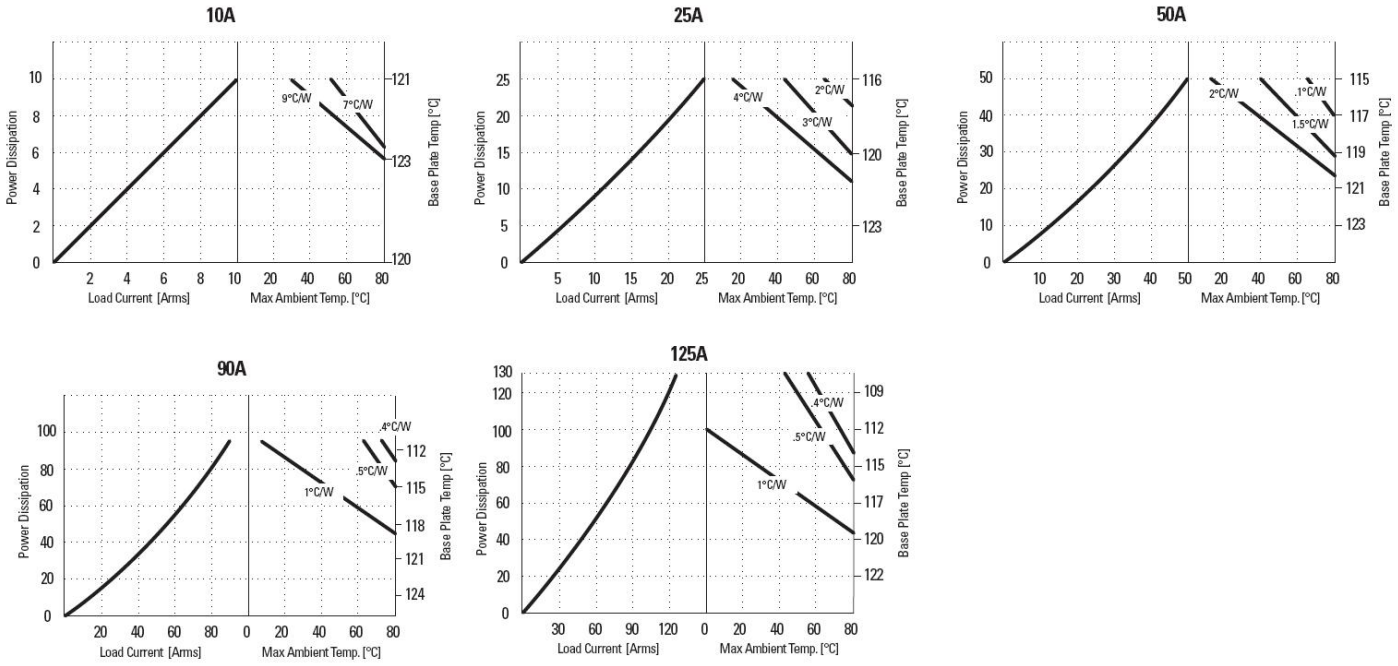
LOAD CAN BE WIRED IN POSITION A or B



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THERMAL DERATE INFORMATION

CURRENT DERATING CURVES



AGENCY APPROVALS

Designed in accordance with the requirements of IEC 62314
EN60950 : Meets the requirements of sections1.5: 1,7: 2.9: 2.10.5.3: 4.2: 4.5: 4.7:
IEC 61000-4-2 : Electrostatic Discharge – Level 3 (Level 4 with “P” option)
IEC 61000-4-3 : Radiated Electromagnetic Noise – Level 3
IEC 61000-4-4 : Electrically Fast Transients – Level 3 (Level 4 with “P” option)
IEC 61000-4-5 : Electrical Surges – Level 3
IEC 61000-4-6 : Conducted Electromagnetic Noise – Level 3

c UL us E79183 1405925

CE RoHS

Rev. 032013

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⚠ DANGER / PELIGRO / DANGER /GEFAHR / PERICOLO / PERIGO

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH.

- Disconnect all power before installing or working with this equipment.
- Verify all connections and replace all covers before turning on power.

Failure to follow these instructions will result in death or serious injury.

RIESGO DE DESCARGA ELECTRICA O EXPLOSION.

- 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 energizer el equipo.

El incumplimiento de estas instrucciones puede provocar la muerte o lesiones serias.

RISQUE DE DESCHARGE ELECTRIQUE OU EXPLOSION

- Eteindre toutes les sources d'énergie de cet appareil avant de travailler dessus de cet appareil
- Vérifier tous connections, et remettre tous couverts en olace avant de mettre sous

De non-suivi de ces instructions provoquera la mort ou des lésions sérieuses sérieuses.

GEFAHR EINES ELEKTRISCHE N SCHLAGES ODER EINER EXPLOSION.

- Stellen Sie jeglichen Strom ab, der dieses Gerät versorgt, bevor Sie an dem Gerät Arbeiten durchführen
- Vor der Inbetriebnahme alle Anschlüsse überprüfen und alle Gehäuseteile montieren.

Unterlassung dieser Anweisungen können zum Tode oder zu schweren Verletzungen führen.

RISCHIO DI SCOSSA ELETTRICA O DELL'ESPLOSI ONE.

- Spenga tutta l'alimentazion e che fornisce questa apparecchiatu ra prima del lavorare a questa apparecchiatu ra
- Verificare tutti i collegamenti e sostituire tutte le coperture prima della rotazione sull'alimentazi one

L'omissione di seguire queste istruz ioni provocherà la morte o di lesioni serie

RISCO DE DESCARGA ELÉTTRICA OU EXPLOSÃO

- Desconectar o equipamento de toda á energia antes de instalar ou trabalhar com este equipamen to
- Verificar todas as conexões e recolocar todas as tampas antes de religar o equipamento

O não cumprimento destas instruções pode levar á morte ou lesões sérias.

⚠ WARNING / AVERTISSEMENT / WARNUNG /ADVERTENCIA / AVVERTENZA / AVISO

RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- 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.

Failure to follow these instructions can result in serious injury, or equipment damage.

RISQUE DE DOMMAGE MATERIEL ET DE SURCHAUFFE DU BOITIER

- 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.

Le non-respect de cette directive peut entraîner, des lésions corporelles graves ou des dommages matériels.

GEFAHR VON MATERIALSCHÄDEN UND GEHÄUSEERHITZUNG

- 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.

Die Nichtbeachtung dieser Anweisung kann Körperverletzung oder Materialschäden zur Folge haben.

RIESGO DE DAÑOS MATERIALES Y DE SOBRECALENTAMIENTO DE LA UNIDAD

- 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.

Si no se respetan estas precauciones pueden producirse graves lesiones, daños materiales.

RISCHIO DI DANNI MATERIALI E D'INVOLUCRO CALDO

- 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.

La mancata osservanza di questa precauzione può causare gravi rischi per l'incolumità personale o danni alle apparecchiature.

RISCO DE DANO MATERIAL E DE AQUECIMENTO

- 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.

A não observância destas precauções pode provocar a morte, ferimentos graves ou danos materiais.

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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	O	O	O	O	O
Solder	X	O	O	O	O	O



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	O	O	O	O	O
焊接点	X	O	O	O	O	O

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