



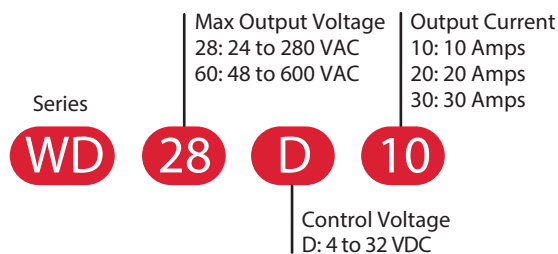
WD 22.5mm Series

- Current ratings 10, 20 and 30 amps
- Output voltage 24-280 and 48-600 VAC
- LED input status indicator
- 100K cycle UL508 Endurance Rating
- UL Approved, CE Compliant
- EMC Compliant Level 3
- DIN-RAIL or Panel Mount
- Zero-Crossing

PRODUCT SELECTION

Control Voltage	10A	20A	30A
4-32 VDC	WD28D10	WD60D20	WD60D30

AVAILABLE OPTIONS



OUTPUT SPECIFICATIONS (Voltage) (1)

Description	WD10	WD20/30
Operating Voltage (47-440Hz) [Vrms]	24-280	48-600
Transient Overvoltage [Vpk, t = 1 min.]	600	1100
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	0.1	0.1
Static off-state dv/dt (V μ s, Ta =25°C) (2)	500	500

OUTPUT SPECIFICATIONS (Current) (1)

Description	WD10	WD20	WD30
Maximum Load Current [Arms]	10	20	30
Minimum Load Current [mArms]	100	100	100
1 cycle surge current (50Hz)	190	286	716
1 cycle surge current (60Hz)	200	300	750
1 second surge current (Apk, Ta = 25°C) 50/60 Hz	65	85	150
Forward Voltage Drop (Vpk @ Imax, Ta = 25°C)	1.5	1.35	1.35
I ² T (50Hz, 1/2 cycle)	182	410	2562
I ² T (60Hz, 1/2 cycle)	166	374	2334
HP Ratings at 120V / FLC	NA	1/2 / 9.8A	3/4 / 13.8A
HP Ratings at 240V / FLC	NA	1 / 8A	2 / 12A
Min/Max stranded wire	16/8 AWG	16/8 AWG	16/8 AWG
Min/Max solid wire	16/10 AWG	16/10 AWG	16/10 AWG

INPUT SPECIFICATIONS (1)

Description	WDxxDx
Input Voltage Range	4-32 VDC
Minimum Turn-On Voltage	4.0 VDC
Drop out Voltage	1.0 VDC
Maximum Input Current	19mA
Minimum input current (for on-state)	16mA
Input Resistance	Current Regulated
Turn-on time	8.33ms
Turn-off time	8.33ms
Min/Max stranded/solid wire	24/16AWG

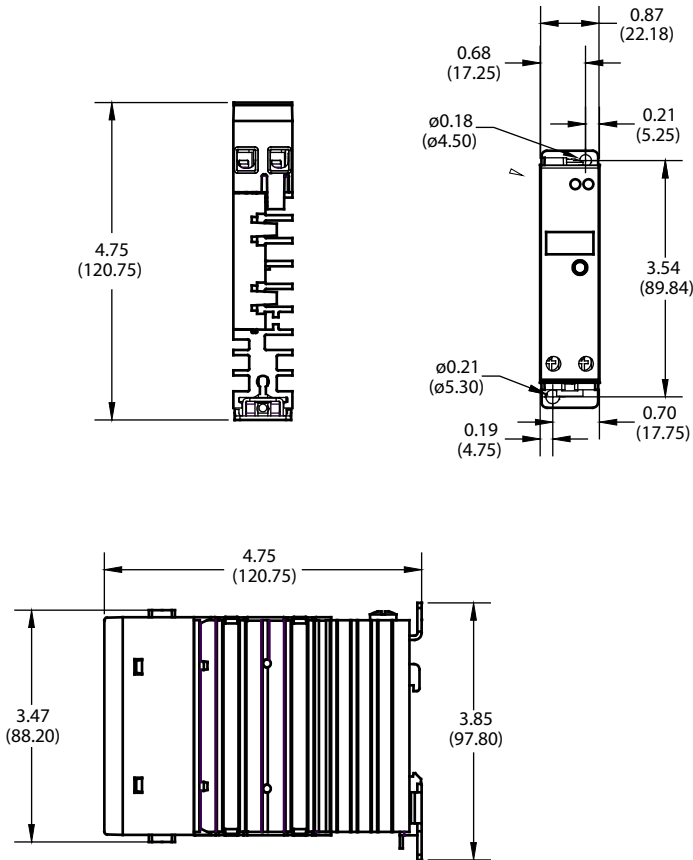
GENERAL SPECIFICATIONS

Description	Parameters
Ambient Operating Temperature Range	-20 to 80 °C
Ambient Storage Temperature Range	-40 to 100 °C
Input to output isolation	4000 Vrms
Input/output to ground isolation	2500 Vrms
Input to output capacitance	8 pF
Housing Material	UL 94V0 (self extinguishing)
Status Indicating Display	Green LED
Weight (typical)	0.5lbs (225 g)

GENERAL NOTES

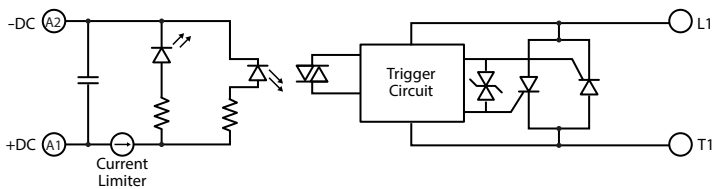
- 1) All parameters at 25°C unless otherwise specified.
- 2) Off-State dv/dt test method per EIA/NARM standard RS-433, paragraph 13.11.1

MECHANICAL SPECIFICATIONS



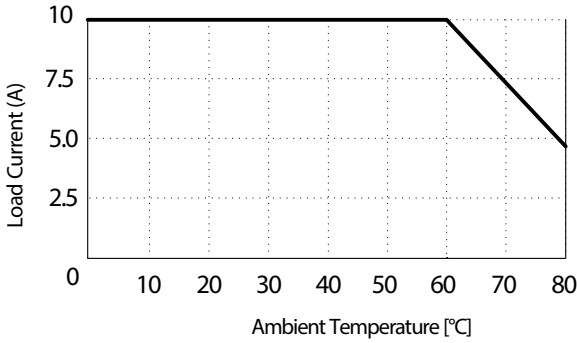
WIRING DIAGRAM

DC Input Equivalent Circuit

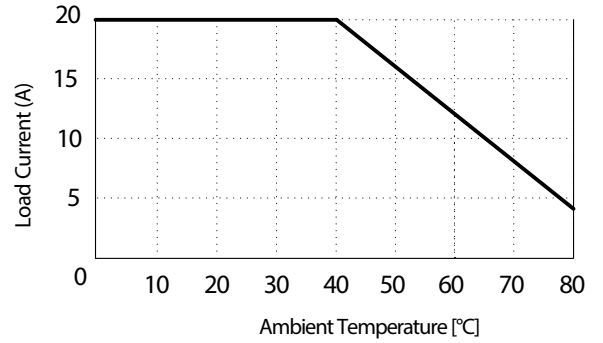


THERMAL DERATE INFORMATION

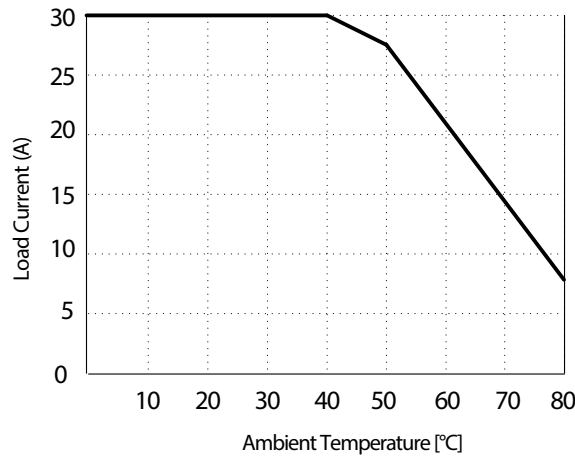
CURRENT v. TEMP DERATE CURVE
WDxx10x



CURRENT v. TEMP DERATE CURVE
WDxx20x



CURRENT v. TEMP DERATE CURVE
WDxx30x



AGENCY APPROVALS

Designed in accordance with the requirements of IEC 62314

IEC 60068-2-6 : 35mm/10-55Hz

IEC 60068-2-27 : 15G/11ms

IEC 61000-4-2 : Electrostatic Discharge – Level 3

IEC 61000-4-3 : Radiated Electromagnetic Noise – Level 3

IEC 61000-4-4 : Electrically Fast Transients – Level 3

IEC 61000-4-5 : Electrical Surges – Level 3

IEC 61000-4-6 : Conducted Electromagnetic Noise – Level 3

CISPIR 11 – Class A: Allowable Levels of Conducted and Radiated Noise for Industrial Environments



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⚠					
<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 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 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>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>

⚠ 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 SOBRECALENTAMIENTO 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	○	○	○	○	○



Brochures and datasheets are available for the complete range of WEST Control Solutions products, contact your local sales office for more information or visit our website at: www.West-CS.com

DS-WD22 -1-EN-1402

Austria T: +43 (0)2236 691-121
E: AT@West-CS.com

Germany

T: +49 (0)561 505-1307
E: DE@West-CS.com

China T: +86 400 666 1802
E: CN@West-CS.com

UK

T: +44 (0)1273 606271
E: UK@West-CS.com

France T: +33 (1) 77 80 90 42
E: FR@West-CS.com

USA

T: +1 800 866 6659
E: NA@West-CS.com