

SeriesOne DR Dual Series

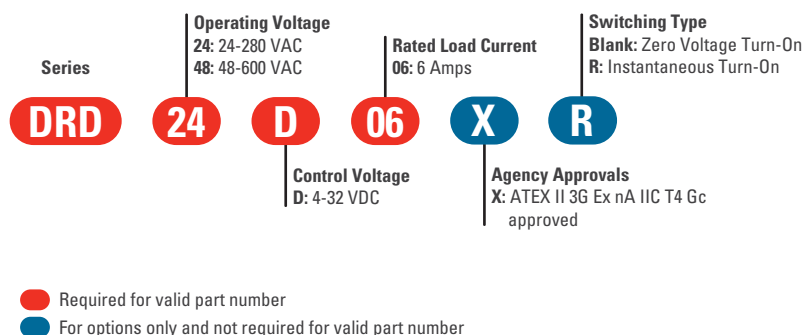


- Dual Output with Ratings of 6 Amps each channel
- Load voltage ratings of 24-280VAC and 48-600VAC
- Fits standard 35mm DIN Rail
- LED input status indicator
- DC control (4-32V)
- Zero Voltage (resistive loads) or Instantaneous (inductive loads) turn-on output
- UL and cUL Listed, HP Rated (General Purpose and Motor Control)
- CE & RoHs Compliant
- UL 508 Endurance Rating for Enhanced Reliability
- UL Class I and II, Division 2, for Hazardous Locations

PRODUCT SELECTION

Control Voltage	280V, 6A	600V, 6A
4-32 VDC	DRD24D06	DRD48D06

AVAILABLE OPTIONS



OUTPUT SPECIFICATIONS AC Output ⁽¹⁾

Description	DRD24D06	DRD48D06
Operating Voltage (47-63Hz) [Vrms]	24-280	48-600
Transient Overvoltage [Vpk]	600	1200
Maximum Load Current per channel, resistive [mArms] ⁽²⁾	6	6
Minimum Load Current [mArms]	150	150
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	0.1	0.25
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] ⁽³⁾	500	500
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.3	1.3
Maximum Surge Current (50/60Hz, 1 cycle) [Apk]	715/750	715/750
Maximum I ² t for Fusing (50/60 Hz, 1/2 cycle) [A ² sec]	2560/2330	2560/2330
HP Rating UL 508/IEC60947 [HP (KW)] @ 240V	1/2 (.37)	1/2 (.37)
HP Rating UL 508/IEC60947 [HP (KW)] @ 380V	N/A	1 (.75)
HP Rating UL 508/IEC60947 [HP (KW)] @ 480V	N/A	2 (1.5)
Minimum Power Factor (at Maximum Load)	0.5	0.5
Min/Max stranded wire	22/14 AWG	22/14 AWG
Min/Max solid wire	22/14 AWG	22/14 AWG

INPUT SPECIFICATIONS ⁽¹⁾

Description	DRDxxD06
Control Voltage Range [Vdc] ⁽⁴⁾	4.0-32
Minimum Turn-On Voltage [Vdc]	1.0
Must Turn-Off Voltage [Vdc]	4.0
Minimum Input Current for [mA] ⁽⁵⁾	9
Maximum Input Current for [mA] ⁽⁵⁾	11
Maximum Turn-on Time [msec] ⁽⁶⁾	1/2 Cycle
Maximum Turn-off Time [msec]	1/2 Cycle
Min/Max stranded/solid wire	22/16 AWG

GENERAL SPECIFICATIONS ⁽¹⁾

Description	Parameters
Dielectric Strength, Input/Output/Base (50/60Hz)	2500 Vrms
Minimum Insulation Resistance (@ 500 VDC)	10 ⁹ Ohm
Maximum Capacitance, Input/Output	10 pF
Ambient Operating Temperature Range	-30 to 80 °C
Ambient Storage Temperature Range	-30 to 100 °C
Recommended Terminal Screw Torque Range	4.4-7.0 in-lb (0.5-0.8Nm)
Weight (Typical)	3.17 oz (90g)

GENERAL NOTES

- ⁽¹⁾ All parameters at 25°C unless otherwise specified.
- ⁽²⁾ See Derating curves
- ⁽³⁾ Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- ⁽⁴⁾ DC control includes reverse polarity protection.
- ⁽⁵⁾ Input circuitry incorporates active current limiter.
- ⁽⁶⁾ Turn-on time for DC control random turn-on versions is 0.1 msec.

Standards of Compliance

IEC 62314

LC A, Resistive or Slightly Inductive Load Ratings: 6A per channel @ 40°C ambient for DRD24D06X, 6A per channel @ 40°C ambient for DRD48D06X

LC B, Motor Loads Ratings: 0.375KW @ 240VAC for DRD24x06X and 1.5KW @ 480VAC DRD48x06X

Shock and Vibration (Applies to all part numbers)

Vibration Resistance according to IEC 60068-2-6: **0.35mm and 0.75mm Amplitude over 10-55 Hz**

Shock Resistance according to IEC 60068-2-27: **15g/11ms**

EMC (Applies to all part numbers)

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

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

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

ANSI / ISA 12.12.01-2013

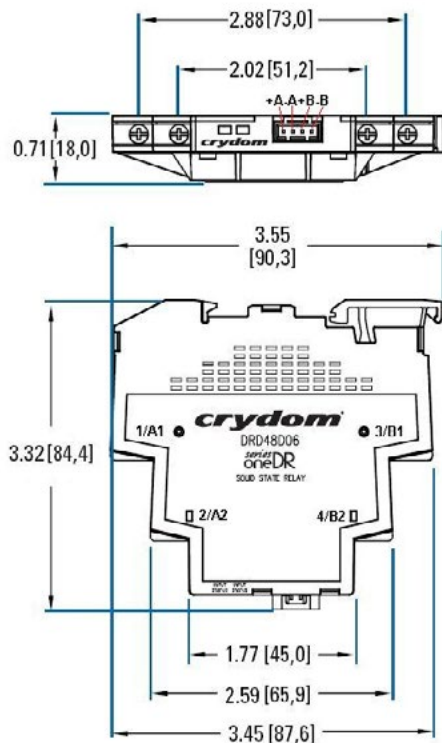
Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Division 1 and 2 Hazardous (classified) locations

This equipment is open-type device and is meant to be installed in an enclosure suitable for the environment such that the equipment is only accessible with the use of a tool suitable for use in Class 1, Division 2, Group A,B,C and Hazardous locations, or Nonhazardous locations only

WARNING-Explosion Hazard- Do not disconnect equipment while the circuit is live or unless the area is known to be free of ignitable concentrations

WARNING-Explosion Hazard- Substitution of any component may impair suitability for Class I, Division 2

MECHANICAL SPECIFICATIONS ⁽¹⁾

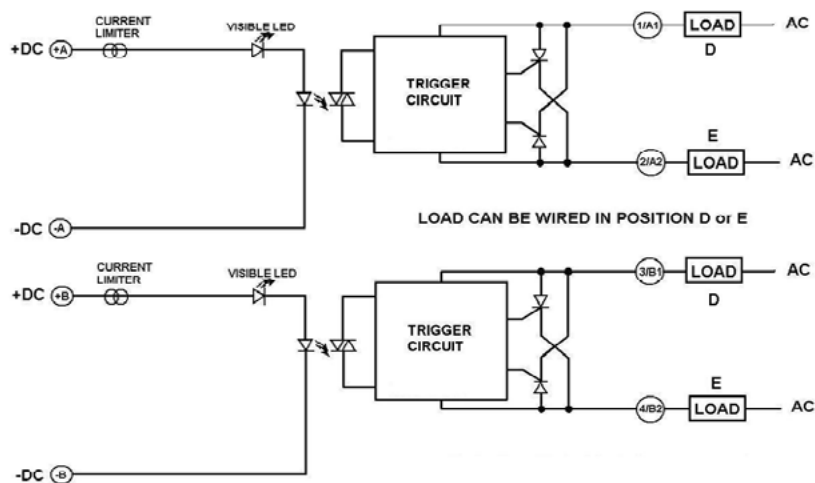


Tolerances: + 0.02in / 0.5mm

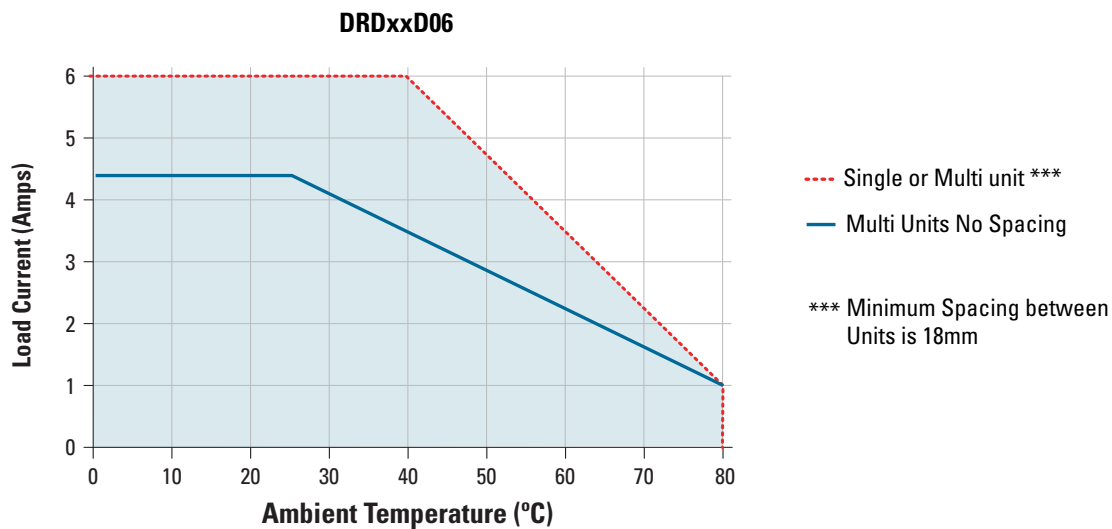
Dimensions are in inches [millimeters]

Mating connector is Molex 050579404 or equivalent

EQUIVALENT CIRCUIT BLOCK DIAGRAMS/WIRING DIAGRAMS



THERMAL DERATE INFORMATION



AGENCY APPROVALS



E116949



Rev. 101317
ECN 20337

⚠ DANGER / PELIGRO / DANGER /GEFAHR / PERICOLO / 危险

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 energizar el equipo. El incumplimiento de estas instrucciones puede provocar la muerte o lesiones serias.	RISQUE DE DESCARGE 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 place avant de mettre sous De non-suivi de ces instructions provoquera la mort ou des lésions 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 dem Drehen auf Energie alle Anschlüsse überprüfen und alle Abdeckungen ersetzen. Unterlassung dieser Anweisungen können zum Tode oder zu schweren Verletzungen führen.	RISCHIO DI SCOSSA ELETTRICA O DELL'ESPLOSIONE. - Spenda 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 L'omissione di queste istruzioni provocherà la morte o lesioni serie	存在电击、爆炸或电弧闪烁危险 在操作此设备之前请先关闭电源。 若不遵守这些说明，可能会导致严重的人身伤害甚至死亡。
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⚠ WARNING / AVERTISSEMENT / WARNUNG /ADVERTENCIA / AVVERTENZA / 警告

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 Körpverletzung 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.	材料损坏和高温外壳的危险性 - 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。 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。

ANNEX - ENVIRONMENTAL 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

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	O	O	O	O	O
焊接点	X	O	O	O	O	O



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