

series oneDR

AC/DC Output Single Channel & AC Output Dual Channel

Crydoms SeriesOne DR Solid State Relays were developed to offer the advantages of Crydom's thermal management technology in a compact 11 & 18 mm wide IP20 housing with unique integrated heat sink. The SeriesOne DR provides a quick and easy installation onto any standard 35 mm DIN rail profile paired with high output power ratings.

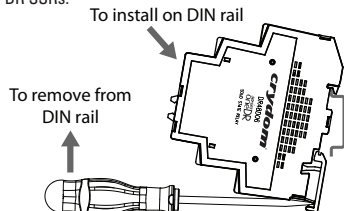
FEATURES

- Single channel 6 & 12 Amps output power rating
- Two independent 6 Amp channels in dual channel versions
- Single channel 60 & 100 VDC, 24 to 600 VAC operating voltage ratings
- Dual channel 24 to 600 VAC operating voltage ratings
- 4-32 VDC, 24, 120 & 230 VAC control input options available for single channel versions
- 4-32 VDC control input for dual channel versions
- AC Output versions with Zero Voltage Turn-On for resistive loads and Random Turn-On for inductive loads

INSTALLATION INSTRUCTIONS

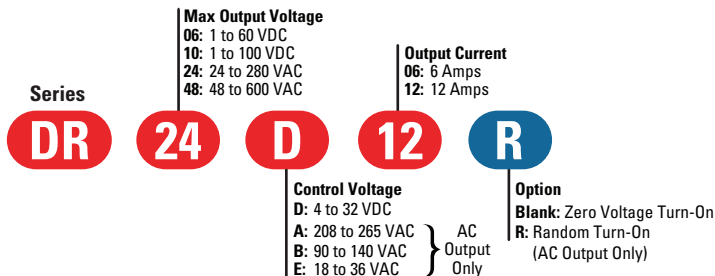
Please read all installation instructions before using SeriesOne DR SSRs.

- Install the relay on the DIN rail (as shown in drawing)
- Wire the relay to the input side. 22 AWG minimum, 16 AWG maximum
- Wire the relay to the output side. 22 AWG minimum, 14 AWG x 2 or 12 AWG x 1 (standed/solid) maximum
- Maximum recommended terminal screw torque input 4.4 in/lbs (0.5 Nm) & output 7.0 in/lbs (0.8 Nm)
- If multiple units are installed be sure to follow derating curves (reverse side of this sheet)

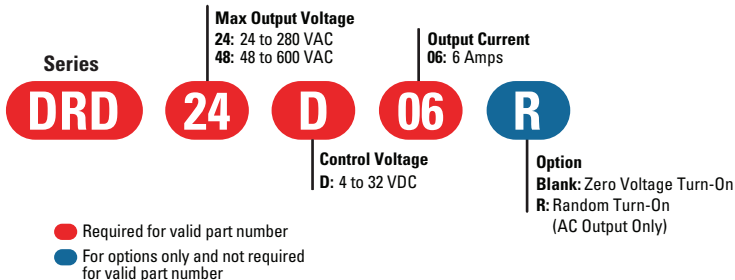


PART NUMBER NOMENCLATURE

Single Channel ^(A)



Dual Channel

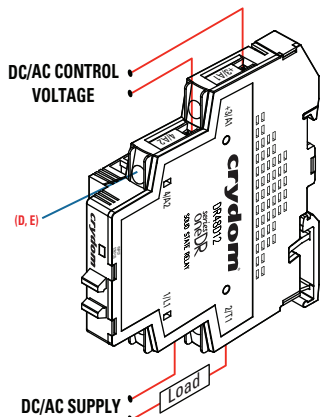


^(A) Not all combinations of ratings are available.

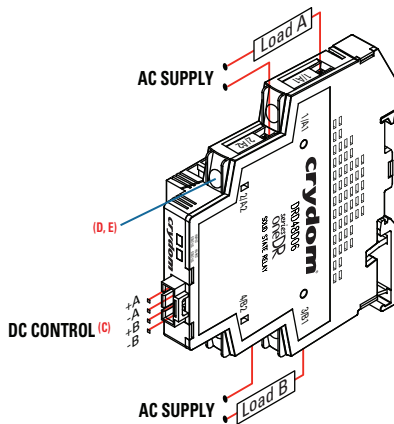
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WIRING DIAGRAMS (B)

For DRxx06 or DRxx12 versions



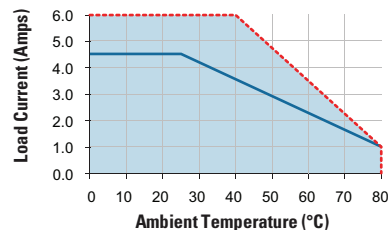
For DRDxxD06 versions



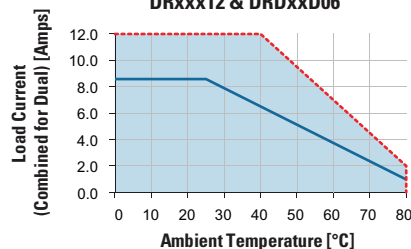
- (B) No grounding wire required. DC inductive loads must be diode suppressed.
- (C) 4 Pin connector for dual channel output only. Matting connector: MOLEX 050579404 or equivalent.
- (D) 4 Terminal screws Pozidriv #1, 3/16 in [4.8 mm].
- (E) Minimum wire strip length 0.20 in [5.1 mm], maximum 0.28 in [7.1 mm].

DERATING CURVES

DRxx06



DRxx12 & DRDxxD06



- Installed single unit, distance to adjacent components ≥ 11 mm for DRxx06 and ≥ 18 mm for DRxx12 & DRDxxD06
- Multiple units, no minimum spacing between components

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WARNING

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.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Turn off power supply before working on this equipment.

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