

## 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.

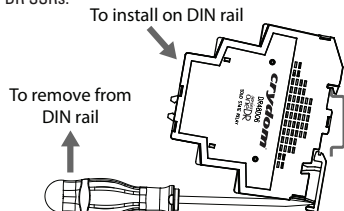
#### FEATURES

- 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

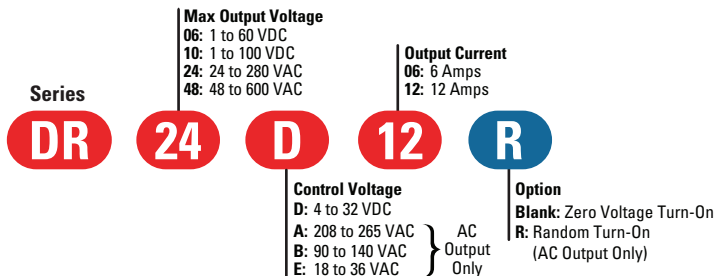
Please read all installation instructions before using SeriesOne DR SSRs.

- 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)

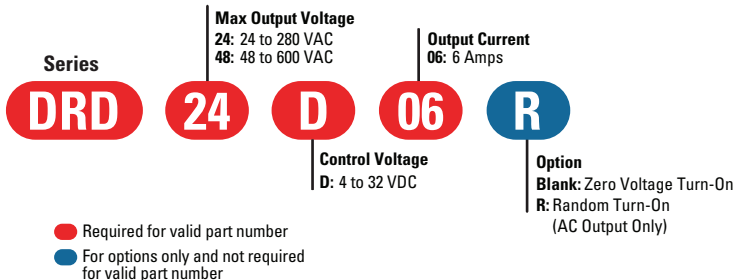


#### PART NUMBER NOMENCLATURE

##### Single Channel <sup>(A)</sup>



##### Dual Channel

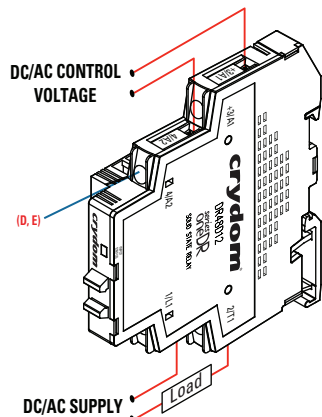


<sup>(A)</sup> Not all combinations of ratings are available.

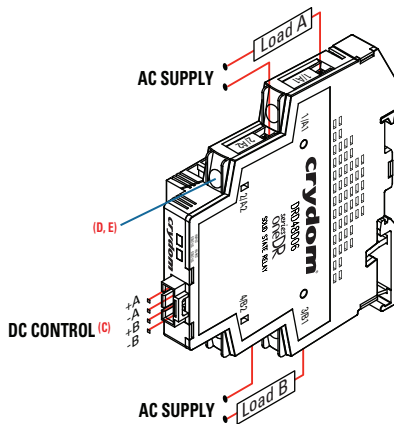
Rev: 072310

## WIRING DIAGRAMS (B)

For DRxx06 or DRxx12 versions



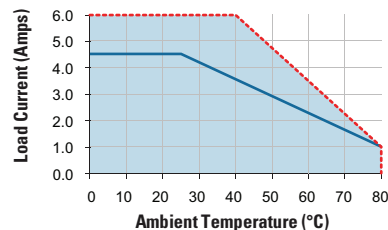
For DRDxxD06 versions



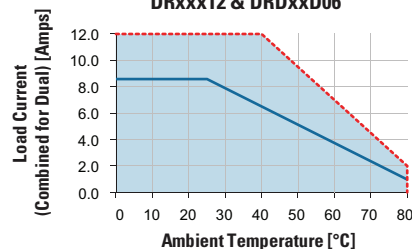
- (B) No grounding wire required. DC inductive loads must be diode suppressed.
- (C) 4 Pin connector for dual channel output only. Matting connector: MOLEX 050579404 or equivalent.
- (D) 4 Terminal screws Pozidriv #1, 3/16 in [4.8 mm].
- (E) Minimum wire strip length 0.20 in [5.1 mm], maximum 0.28 in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

## DERATING CURVES

DRxx06



DRxx12 & DRDxxD06



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

Rev: 072310

<b>⚠ WARNING</b>
<b>RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE</b>
<ul style="list-style-type: none"> <li>• The product's side panels may be hot, allow the product to cool before touching.</li> <li>• Follow proper mounting instructions including torque values.</li> <li>• Do not allow liquids or foreign objects to enter this product.</li> </ul>
Failure to follow these instructions can result in serious injury, or equipment damage.

<b>⚠ DANGER</b>
<b>HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH</b>
<ul style="list-style-type: none"> <li>• Turn off power supply before working on this equipment.</li> </ul>
Failure to follow these instructions will result in death or serious injury.