crydom

InstallationSheet

series DR

AC/DC Output Single Channel & AC Output Dual Channel SSR

Crydom 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.

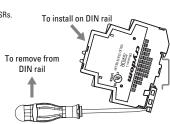
FEATURES

- Single channel 3, 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 48 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
- LED indicates only Input status. Does not represent Output status.

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. AWG #22 minimum, AWG #16 maximum (0.3-1.3 mm²)
- Wire the relay to the output side. AWG #22 minimum (0.3 mm²), AWG #14 (2.1 mm²) x 2 or AWG #12 (3.3 mm²) x 1 (standed/solid) maximum.
- Maximum recommended terminal screw torque input 4.4 in-lbs (0.5 Nm) & output 7 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)

Max Output Voltage
06: 1 to 60 VDC
10: 1 to 100 VDC
24: 24 to 280 VAC
48: 48 to 600 VAC

Output Current 03: 3 Amps 06: 6 Amps 12: 12 Amps

Series

24

D

Max Output Voltage

24: 24 to 280 VAC

48: 48 to 600 VAC



Control Voltage

D: 4 to 32 VDC A: 200 to 265 VAC

B: 90 to 140 VAC E: 18 to 36 VAC

AC Output Only

Output Current

06: 6 Amps

Option
Blank: Zero Voltage Turn-On
R: Random Turn-On

(AC Output Only)

Dual Channel

Series

DRD

24

D

06



Control Voltage
D: 4 to 32 VDC

Option
Blank: Zero Voltage Turn-On
R: Random Turn-On
(AC Output Only)

- Required for valid part number
- For options only and not required for valid part number
- (A) Not all combinations of ratings are available.

Rev: 031113



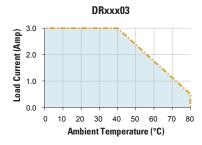
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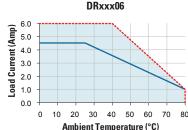


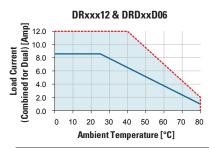


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DERATING CURVES





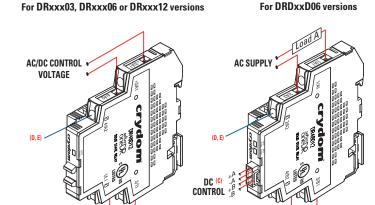


- Single and multiple units for DRxx03

- --- Installed single unit, distance to adjacent components ≥ 11 mm for DRxxx06 and ≥ 18 mm for DRxxx12 & DRDxxD06
- Multiple units, no minimum spacing between components

WIRING DIAGRAMS (B)

AC/DC SUPPLY



A 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.

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

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