



SOLICON DRC SERIES

DIN RAIL MOUNT 3-PHASE & REVERSING SOLID STATE CONTACTORS

This installation sheet includes detailed mounting and wiring instructions which apply for Crydom SOLICON DRC 3 Phase and Reversing Solid State Contactors. Be sure to visit the product series' datasheet available at the Sensata website to complement this information. If you have questions or need additional information please contact Tech Support.

MOUNTING INSTRUCTIONS (A,B)

- Please read all mounting instructions before using your SOLICON DRC Series Solid State Contactor
- Install the contactor on the DIN rail (as shown in fig.1).
 - Wire the contactor to the input side. AWG #18 (1 mm²) minimum, AWG #12 (4 mm²) x 2 maximum.
 - Wire the contactor to the output side. AWG #18 (1 mm²) minimum, AWG #10 (6 mm²) x 2 (stranded/solid) maximum.
 - Maximum recommended terminal screw torque input 12 lb-in (1.36 Nm) & output 15 lb-in (1.7 Nm).
 - If multiple units are installed be sure to follow derating curves

WARNING! Removing product from 35 mm rail incorrectly by not using the appropriate tool could damage the latching system

Ambient Temp	DRC3P48x4x@480 VAC DRC3P60x4x@600 VAC	DRC3P48x4x2@480 VAC DRC3P60x4x2@600 VAC	DRC3R40x4x @ 400 VAC	DRC3R48x4x @ 480 VAC
40°C	3 HP / 2.2 kW	5 HP / 3.7 kW	3 HP / 2.2 kW	5 HP / 3.7 kW
60°C	2 HP / 1.5 kW	3 HP / 2.2 kW	2 HP / 1.5 kW	3 HP / 2.2 kW
80°C	1 HP / 0.75 kW	1.5 HP / 1.1 kW	3/4 HP / 0.55 kW	1 HP / 0.75 kW

ORDERING OPTIONS

DRC - 3P - 48 - D - 4 - 00 - R - 2

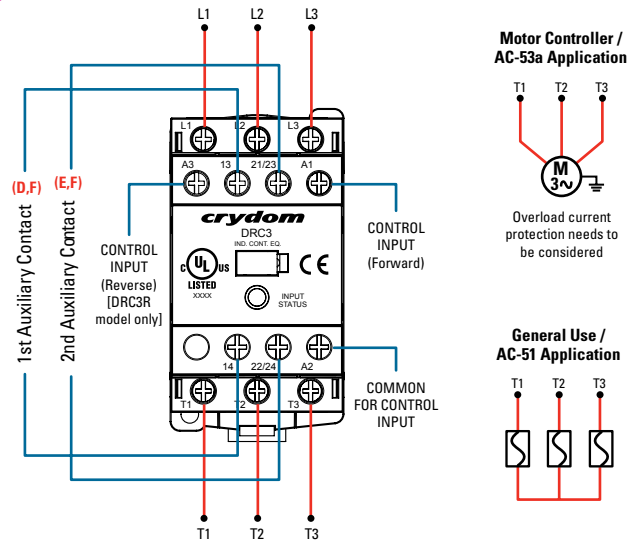
Series	DRC
Function	3P: Contactor 3R: Reversing Contactor
Operating Voltage	40: 400 VAC (3P function only) 48: 480 VAC 60: 600 VAC (3P function only)
Control Voltage	A: 208-265 VAC B: 90-140 VAC C: 36-55 VAC/DC D: 18-30 VAC/DC (3P function only) 18-30 VAC (3R function only) E: 18-30 VDC (3R function only)
Load Current per Phase	4: 7.6 Amp FLA (x2 Controlled Legs & 3R function); 4.8 Amp FLA (x3 Controlled Legs only)
Auxiliary Contacts	00: Not included 11: Solid State, 1 N.O. + 1 N.C. (3P function only) 20: Solid State, 2 N.O. 33: EMR, 1 N.O. + 1 N.C. (3P function, D option only) 40: EMR, 2 N.O. (3P function, D option and 3R function, E option only)
Switching Mode	(3P function only) Blank: Zero Voltage Turn-On R: Instantaneous Turn-On
Controlled Legs	(3P function only) Blank: 3 Controlled Legs 2: 2 Controlled Legs

— Required for valid part number
□ For options only and not required for valid part number
N.O.: Normally Open N.C.: Normally Closed

GENERAL NOTES

- ^(A) See compatible accessories in corresponding datasheet.
^(B) For optimal thermal performance, contactor vents should be aligned vertically to maximize natural convection airflow.
^(C) To achieve maximum ratings, there must be a minimum spacing of 0.8 in (22 mm) between the devices in free air and a minimum free spacing of 3.15 in (80 mm) at the top and at the bottom (see fig. 3)
^(D) Normally Open (13 - 14) for DRC3xxx411, DRC3xxx420, DRC3xxx433 and DRC3xxx440 models.
^(E) Normally Open (23-24) for DRC3xxx420 and DRC3xxx440 models, Normally Closed (21-22) for DRC3xxx411 and DRC3xxx433 models.
^(F) Not available for DRC3xxx400 models.

WIRING DIAGRAM



Important Considerations

- Be sure to use input and output voltages within operating ranges.
- LED indicates only input status. It does not represent output status.
- To achieve maximum ratings, there must be a minimum spacing of 0.8 in (22 mm) between the devices in free air and a minimum free spacing of 3.15 in (80 mm) at the top and at the bottom. (See fig. 3)

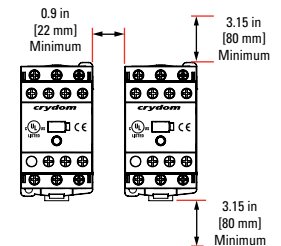
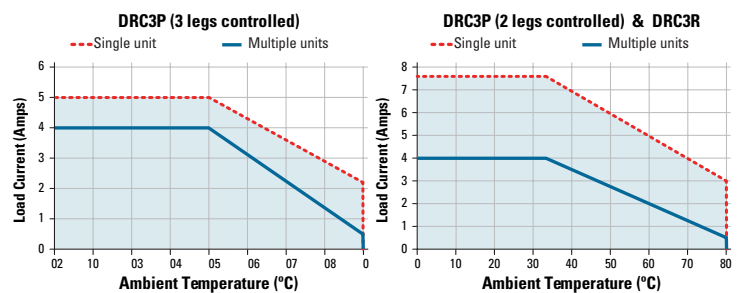


fig. 3 Multiple units mounting for maximum ratings

DERATING CURVES^(C)



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