

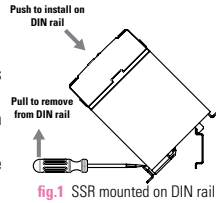
DR67 SERIES NOVA22 3-PHASE AC OUTPUT DIN RAIL MOUNT SOLID STATE RELAYS

DR67 Series 3-Phase Solid State Relays offer the advantages of semiconductor switching technology in a compact 67.5 mm industrial package. Read all installation instructions before using your DIN Rail Mount Solid State Relay (SSR) and refer to the product datasheet for more information. For assistance, please contact Tech Support.

INSTALLATION INSTRUCTIONS

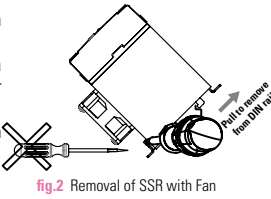
Mounting on DIN Rail

- Locate rail and align with non moveable end of DR67 DIN clip.
- Using reasonable force, push DR67 in the direction of the arrow (as shown in fig.1).
- For removal pull release tag by moving blade of screwdriver in direction of arrow and pull it away from DIN rail.
- For models with integrated fan removal tool must be inserted from the side (as shown in fig. 2)



Mounting on Panel (25A & 30A models only)

- Locate the panel section on which the DR67 SSR will be mounted on (as shown in fig.3)
- DIN clip includes tabs for this type of mounting. Tab holes have a diameter of 4.5 mm. You will need three screws (not included) no larger than that to mount the SSR onto panel.
- Align SSR tabs with panel surface and screw both top and bottom sides. Recommended torque is 12 lb-in (1.36 Nm).

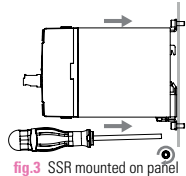


Wiring Instructions

- Recommended wire sizes as shown in TABLE 1
- Maximum terminal screw torque input terminal 5 lb-in (0.5 Nm) (screw terminal only)
- Maximum terminal screw torque load terminal 18-20 lb-in (2.0-2.2 Nm)
- Strip length for input terminals: Per manufacturer specifications
- Strip length for load terminals: 10mm min.
- Use only copper conductors rated for 75°C or higher.
- If multiple units are installed be sure to follow derating curves.

WARNING!!

- Removing product from 35mm Rail incorrectly by not using the appropriate tool, would damage the latching system.



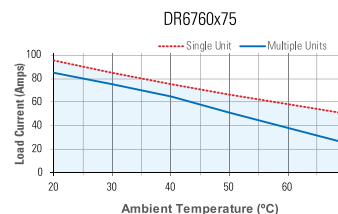
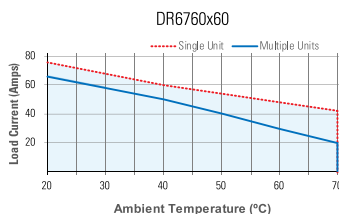
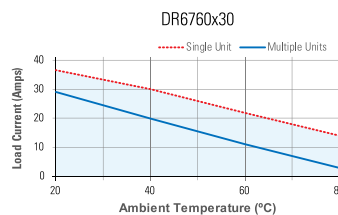
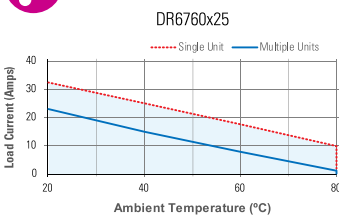
| Terminal Configuration | Recommended Wire Size (Solid/Stranded) | Wire Pull-Out Strength (lb [N])* | |
|------------------------|---|--|----------|
| Output | 1 x 18 AWG (1 mm ²) [minimum] | 20 [88] | |
| | 1 x 8 AWG (10 mm ²) | 75 [333] | |
| | 2 x 8 AWG (10 mm ²) | 65 [289] | |
| | 1 x 3 AWG (26.67 mm ²) ⁽¹⁾ | 90 [400] | |
| Input | Screw | 30 AWG (0.05 mm ²) [minimum] | 4.5 [20] |
| | | 12 AWG (3.3 mm ²) [maximum] | 30 [133] |
| | Spring ⁽²⁾ | 26 AWG (0.13 mm ²) [minimum] | 5 [22] |
| | | 12 AWG (3.3 mm ²) [maximum] | 5 [22] |

*Tests performed on Stranded wire

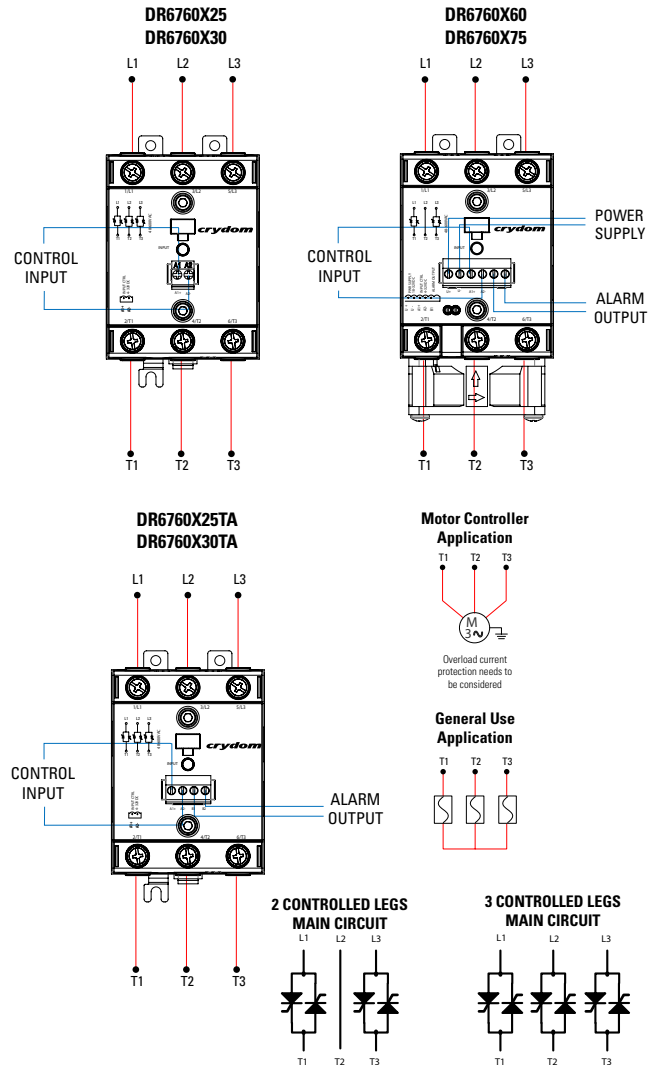
⁽¹⁾ Maximum wire size 1 x 2 AWG (35mm²), torque 24 lb-in (2.7 Nm) & strip length 12.7mm min.

⁽²⁾ Applicable when using CP202 connector instead of supplied connector

DERATING CURVES



WIRING DIAGRAM



Important Considerations

- Be sure to use input and output voltages within operating ranges.
- On models without overtemperature protection or integrated fan, LED indicates only input status. It does not represent output status.
- To achieve maximum ratings, there must be a minimum spacing of 0.87 inch (22mm) between the devices in free air (as shown in fig.4).
- To achieve maximum current rating in continuous operation, the SSR should be mounted aligned vertically to allow natural convection air flow. Otherwise, use derating curves for multiple units.

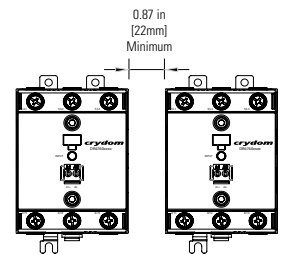
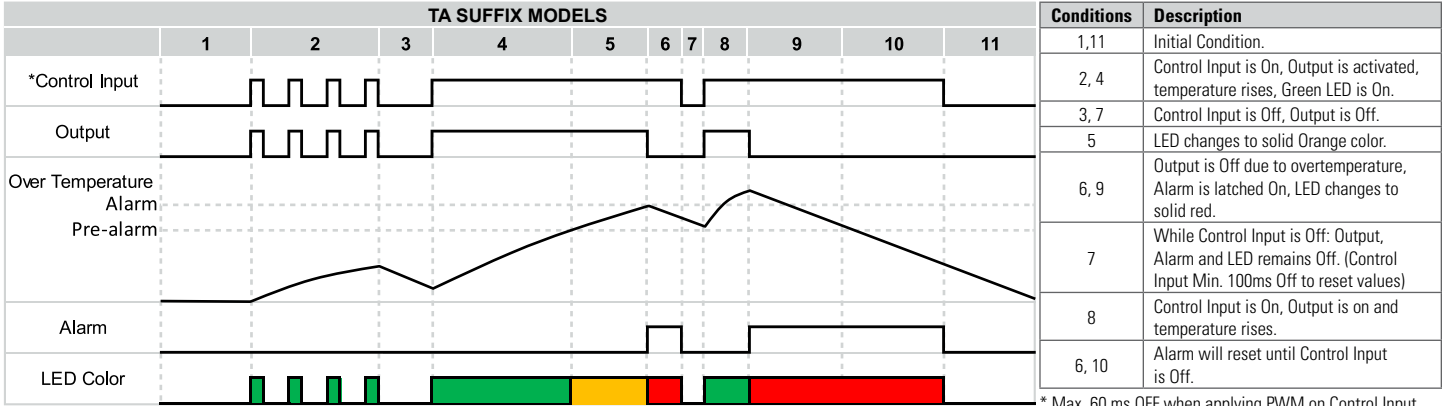


fig.4 Multiple units mounting for maximum ratings

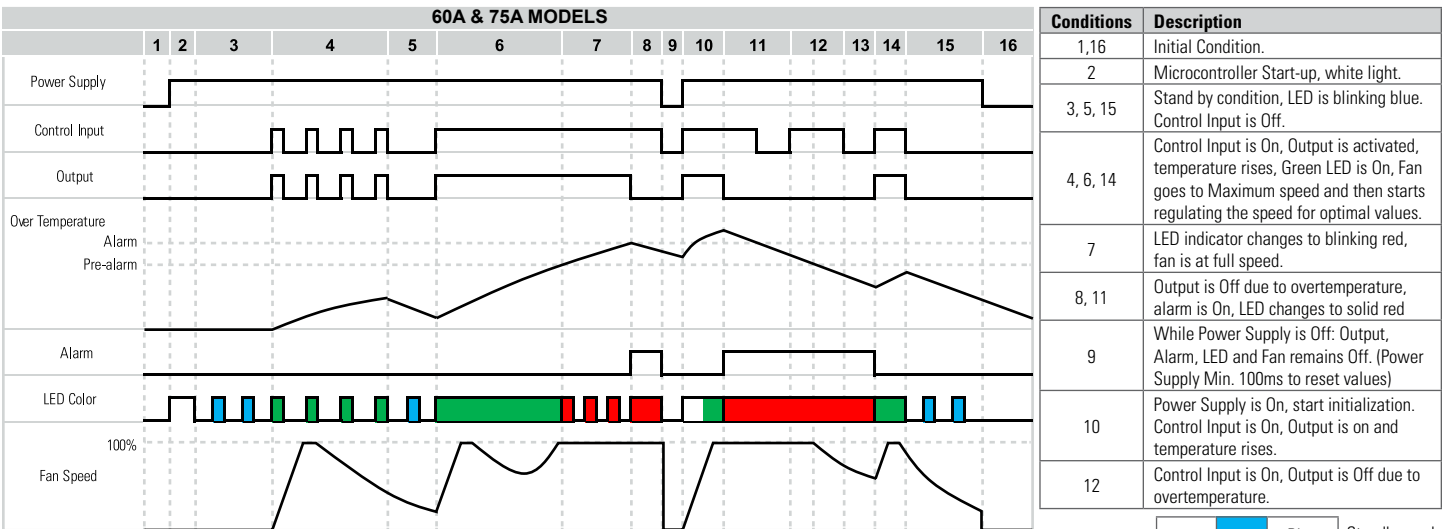
WARNING! On version with integrated Fan (60 and 75 amps models), do not replace or operate without Fan.

(only for models with overtemperature protection or integrated fan)



* Max. 60 ms OFF when applying PWM on Control Input.

| | | | |
|-----------|--|--------|-----------|
| LED Color | | Green | Output On |
| | | Red | Alarm |
| | | Yellow | Pre-Alarm |



| | | | |
|-----------|--|-------|----------------|
| LED Color | | Blue | Standby mode |
| | | Green | Output On |
| | | Red | Alarm |
| | | White | Initialization |

WARNINGS



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.**



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.**

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