

CMR SERIES

HIGH POWER READY-TO-USE DIN RAIL MOUNTED SOLID STATE RELAYS

CMR Series Solid State Relays were developed to offer the advantages of semiconductor switching technology in a compact, self contained package. Quick and easy installation is coupled with low drive power requirements and efficient, reliable power SCR output. This compact new design offers up to 65 Arms in ambient temperatures of 25°C.

FEATURES

- Mounting clip incorporates tabs for screw mounting to panel
- Box Clamp terminals
- Bracket fits all standard 35 mm DIN rail profiles
- LED input status indicator

INSTALLATION INSTRUCTIONS

Please read all installation instructions before using CMR Series SSRs. Choose one of the two mounting options and follow the instructions below.

Mounting on DIN Rail

- Locate rail and align with non moveable end of CMR DIN clip.
- Using reasonable force, push CMR in the direction of the arrow shown in fig.1.
- For removal pull release tag in direction of arrow using blade of screwdriver and pull it away from DIN rail.

Mounting on Panel

- Locate the panel section on which the CMR SSR will be mounted on.
- DIN clip includes tabs for this type of mounting. Tab holes have a diameter of 4.5 mm. You will need two 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).

IMPORTANT CONSIDERATIONS

Mounting Air Gap ^(A)

To achieve maximum ratings if multiple units are installed, there must be a minimum air gap of 1.6 in (40 mm) between the devices (horizontally) and of 3.15 in (80 mm) measured between DIN clip tabs (vertically).

Earth Bonding (Grounding)

The CMR heat sink is equipped with an earth bonding screw as is required for Class 1 Protection, in accordance with EN 60950. Recommended torque is 20 lb-in (2.2 Nm).

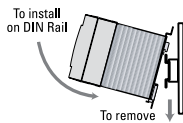


fig.1 Mounting on DIN Rail

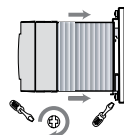


fig. 2 Mounting on Panel

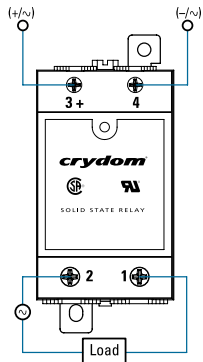
ORDERING OPTIONS

	CMR	D	24	35	P
Series	CMR				
Control Voltage		D: 3-32 VDC (for 280 VAC) 4-32 VDC (for 530 VAC/660 VAC) A: 90-140 VAC			
Operating Voltage		24: 24-280 VAC 48: 48-530 VAC 60: 48-660 VAC			
Rated Load Current		35: 35 Amps 45: 45 Amps 55: 55 Amps 65: 65 Amps			
Overvoltage Protection					
Blank: Not Included P: Included					

Required for valid part number
For options only and not required for valid part number

NOTE: Not all combinations are available.
Consult factory for information on the availability of a specific part number.

WIRING DIAGRAM



Wire Size

Maximum wire size of AWG #8 (8.4 mm²) for input and output terminals.

Connections

Ensure that wires ends are stripped to a minimum length of 0.4 in (10 mm).

Recommended Screw Torque Range

5-6 lb-in (0.6-0.7 Nm) on input and 10-15 lb-in (1.1-1.7 Nm) on output terminations.

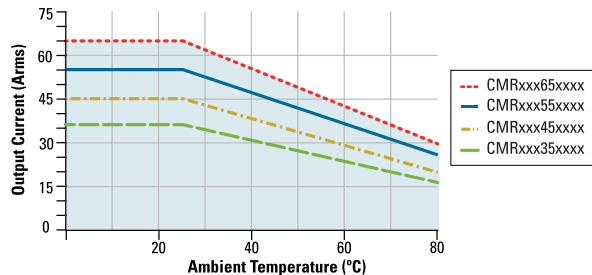
GENERAL NOTES

^(A) The air gap is the clearance distance adjacent to either side of the relay or assembly measured to the next closer relay or assembly.

^(B) 100% Duty Cycle.

DERATING CURVES ^(B)

The following derating curves must be observed before installation.



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