INSTALLATIONGUIDE

Sensata Technologies

ICKR SERIES

READY-TO-USE DIN RAIL MOUNTED SOLID STATE RELAYS

Crydom CKR Series Solid State Relays were developed to offer the advantages of semiconductor switching technology in a standard 22.5 mm industrial 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 30 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 CKR 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 CKR DIN clip.
- Using reasonable force, push CKR 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 CKR 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, there must be a minimum spacing of 0.8 in (20 mm) between the devices (horizontally) and of 3.15 in (80 mm) measured between DIN clip tabs (vertically).

Earth Bonding (Grounding)

The CKR heat sink is equiped 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).

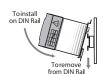
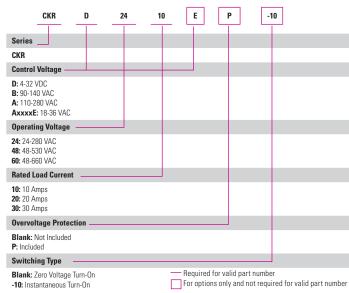


fig.1 Mounting on DIN Rail



fig. 2 Mounting on Panel

ORDERING OPTIONS



NOTE: Not all combinations are available.

Consult factory for information on the availability of a specific part number.

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WIRING DIAGRAM



Wire Size

Maximum wire size of AWG #10 (5.3 mm²) for input and output terminals. Connections

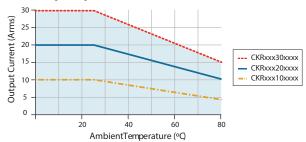
Ensure that wires ends are stripped to a minimum length of 0.4 in (10 mm).

Recommended Screw Torque Range

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

DERATING CURVES (B)

The following deating curves must be observed before installation.



GENERAL NOTES

Load

(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.

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⁽B) 100% Duty Cycle.