

Installation Note for CKR Series

Crydoms CKR Series Solid State Relays were developed to offer the advantages of semiconductor switching technology in a standard 22.5mm industrial package. Quick and easy installation is coupled with low drive power requirements and efficient, reliable power SCR output. Box Clamp terminals and LED status indication complete the package. This compact new design offers up to 30Arms in ambient temperatures of 25C.

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

APPROVALS: UL, CSA, VDE, CE Mark.

Caution

High Temperature

MOUNTING OF CKR SERIES OF SOLID STATE RELAYS

CKR Series SSRs are designed to fit to an industry standard TS35 DIN Rail. Mounting clip incorporates tabs for screw mounting to panel.

FITTING TO THE 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.



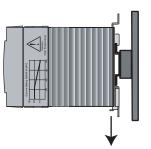
MOUNTING CONSIDERATIONS

To achieve maximum ratings, there must be a minimum spacing of 20mm between the devices in free air.



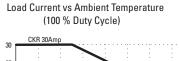
REMOVAL FROM DIN RAIL

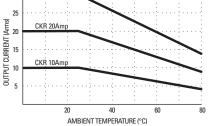
Pull release tag in direction of arrow using blade of screwdriver.



THERMAL CONSIDERATIONS

The CKR power switching range is based on semiconductor technology and therefore generates heat during operation. The following derating curves must be observed before installation. Crydom products are rated for 100% Duty Cycle.



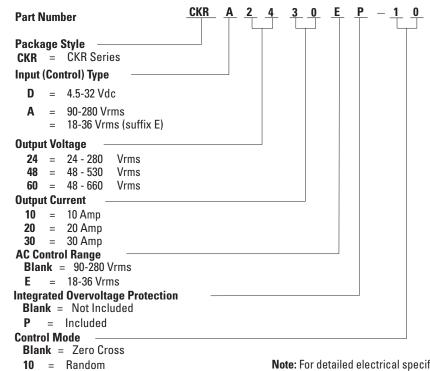


Warning - Heatsink will become hot during operation.



CKRINST Rev. 112305 PAGE 1 OF 2

ORDERING INFORMATION



GENERAL NOTES

- All parameters at 25°C unless otherwise specified.
- Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- Turn-on time for DC control random turn-on versions is 0.02msec.
- Input circuitry for DC control version incorporates active current limiter.

PROTECTION

Over Current and Short Circuit

A solid state relay should be protected by a semiconductor fuse. This type of fuse provides extremely fast opening of the circuit. A fuse should be selected that has an l^2t let-through rating that is less than the l^2t capability of the SSR, for the same duration.

Transient Over Voltage (P OPTION)

Select "P" option for internal overvoltage protection. At the presence of high voltage transient the output of the SSR will be triggered on, and the transient will be passed on to the load circuit This is a non-degrading method of protection that ensures that other SSR benefits are maintained.

Earth Bonding (Grounding)

The CKR heatsink is equiped with an earth bonding screw as is required for Class 1 Protection, in accordance with EN 60950 (VDE 0804).

Terminations

Wire Size	• Maximum wire size of AWG#10 (3mm) on
	both input and output terminals.
Connections	• Ensure that wires ends are stripped to a
	minimum length of 10mm.

Recommended Screw Torque Range

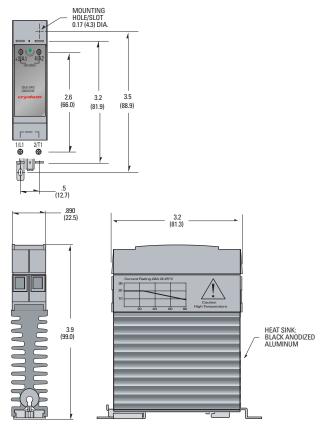
• 5.0-6.0 in lb (0.6-0.7 Nm) on input and output termination.

Note: For detailed electrical specifications see Crydom individual data sheets.

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MECHANICAL SPECIFICATIONS

All dimensions are in inches (millimeters)



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CONTACT DETAILS

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