

Installation Note for CMR Series

Crydoms 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. Box Clamp terminals and LED status indication complete the package. This compact new design offers up to 65Arms in ambient temperatures of 25°C.

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

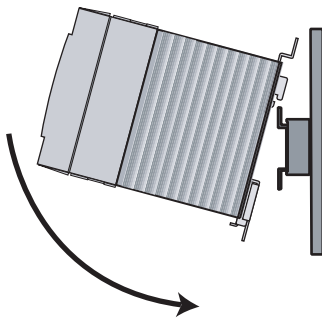
APPROVALS: UL, CSA, VDE, CE Mark.

MOUNTING OF CMR SERIES OF SOLID STATE RELAYS

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

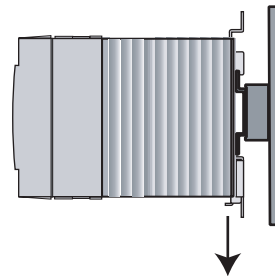
FITTING TO THE DIN RAIL

Locate rail and align with non moveable end of CMR DIN clip. Using reasonable force, push CMR in the direction of the arrow shown.



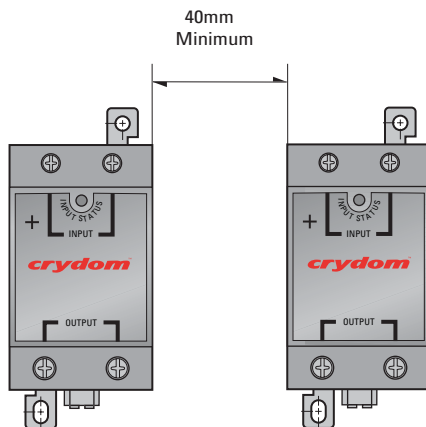
REMOVAL FROM DIN RAIL

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



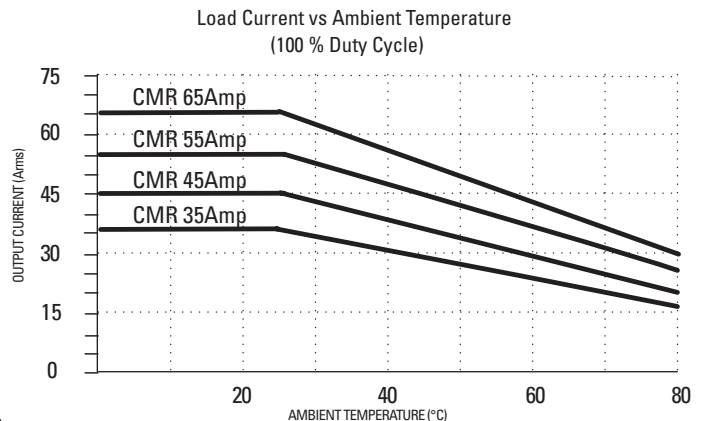
MOUNTING CONSIDERATIONS

To achieve maximum ratings, there must be a minimum spacing of 40mm between the devices in free air.



THERMAL CONSIDERATIONS

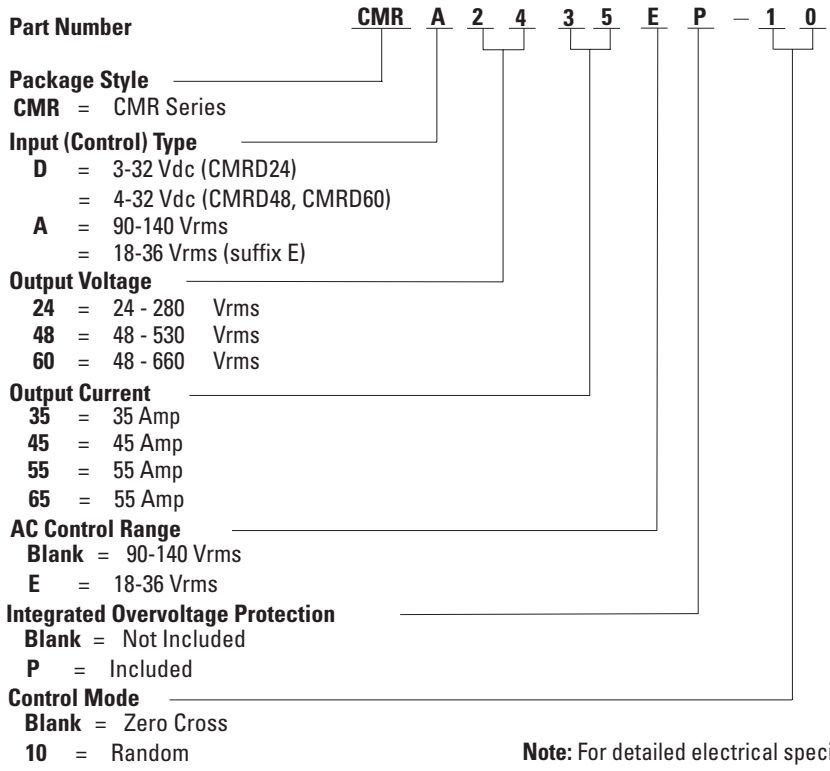
The CMR power switching range is based on semiconductor technology and therefore generates heat during operation. The following deating curves must be observed before installation. Crydom products are rated for 100% Duty Cycle.



Caution
High Temperature

Warning - Heatsink will become hot during operation.

ORDERING INFORMATION



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

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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 I²t let-through rating that is less than the I²t 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)

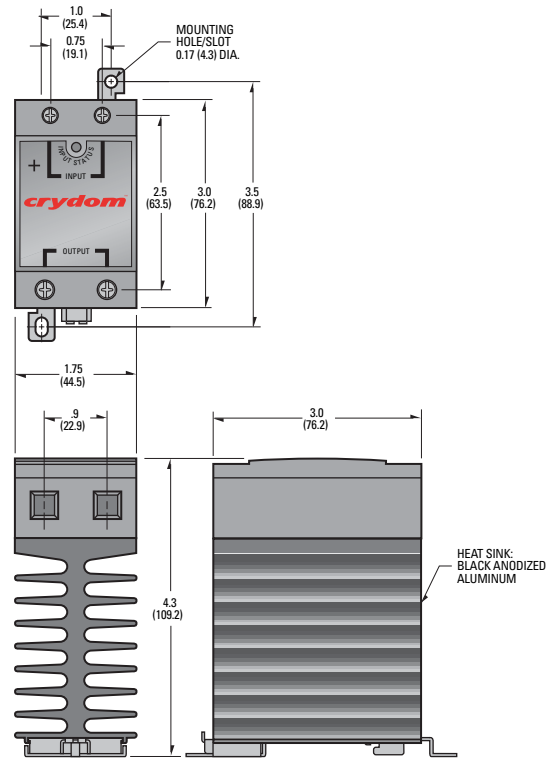
The CKR heatsink is equipped with an earth bonding screw as is required for Class 1 Protection, in accordance with EN 60950 (VDE 0804).

Terminations

- Wire Size • Maximum wire size of AWG#12 (2.5mm) on input and AWG#8 (3.8mm) output terminals.
- Connections • Ensure that wires ends are stripped to a minimum length of 0.4 inch (10 mm).
- Recommended Screw Torque Range • 5-6 in lb (0.6-0.7 Nm) on input and 10-15 in lb (1.1-1.7 Nm) on output terminations.

MECHANICAL SPECIFICATIONS

All dimensions are in inches (millimeters)



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CONTACT DETAILS

For recommended applications and more information contact:
USA: Sales Support (877) 502-5500 **Tech Support** (877) 702-7700 FAX (619) 710-8540
 Crydom Corp, 2320 Paseo de las Americas, Ste. 201, San Diego, CA 92154
Email: sales@crydom.com **WEB SITE:** http://www.crydom.com
UK: +44 (0)1202 365070 • **FAX** +44 (0)1202 365090 Crydom International Ltd., 7 Cobham Road, Ferndown Industrial Estate, Ferndown, Dorset BH21 7PE, Email: intsales@crydom.com.
GERMANY: +49 (0)180 3000 506