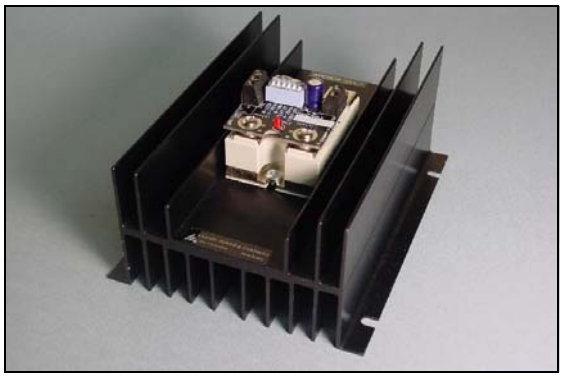
ANACON POWER & CONTROLS
Relay Assembly Specialists
An Anacon Electronic Sales, Inc. Company

2254 Main St. Concord, MA 01742-3829 - TEL: 800-466-9080 - 978-287-0715 - FAX: 978-287-0952
www.anaconpower.com - email: sales@anaconpower.com

"COOL ONE" PANEL MOUNT Phase Angle SCR Power Controller w/ 0-135Ω Input



Dimensions: 6.0" x 4.75" x 3.0"

Anacon's "Cool One" heat sink design is by far one of the most unique ideas to come along in quite some time. Read about its amazing features and how Anacon can help with your design regardless of whose Solid State Relays you're using. "Cool One" works better!

Standard *"COOL ONE"* Features:

- Current Ratings from 0.1A to 50A
- Output voltages from 24Vac to 660Vac
- Standard **LED** Status Indicator
- UL/cUL Recognized TUV Approved & CE Compliant Version
- Operates from 47-63Hz
- Input Options: 0-135Ω
- Built in Transient Protection
- Phase Angle Linearity Proportional to Input
- Controller Card requires 24V AC for operation 3VA min.
- 40A & 50A models Standard. Higher & Lower current versions available from 10A to 100A
- Includes Control Module, Solid Sate Relay & Black Anodized **"Cool One"** Panel Mount Heat Sink.
- For Safety & Noise Immunity Compliance information, see page ___.

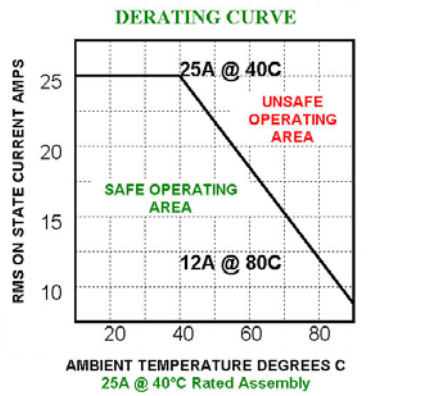
SPECIFICATIONS

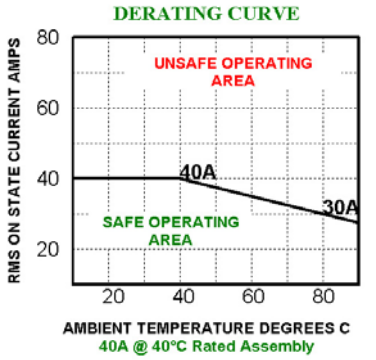
PART NUMBER	INPUT RANGE	ASSEMBLY LOAD CURRENT (AMPS AC)	LINE VOLTAGE	PEAK VOLTAGE	RELAY RATING
APCSCR25LL-135P	0-135Ω	.1A-25A Max @ 40 Degrees C Ambient	24-280Vac	600V Peak	25A
APCSCR25HL-135P	0-135Ω	.1A-25A Max @ 40 Degrees C Ambient	48-660Vac	1200V Peak	25A
APCSCR40LL-135P	0-135Ω	.1A-40A Max @ 40 Degrees C Ambient	24-280Vac	600V Peak	50A
APCSCR40HL-135P	0-135Ω	.1A-40A Max @ 40 Degrees C Ambient	48-660Vac	1200V Peak	50A
APCSCR50LL-135P	0-135Ω	.1A-50A Max @ 40 Degrees C Ambient	24-280Vac	600V Peak	75A
APCSCR50HL-135P	0-135Ω	.1A-50A Max @ 40 Degrees C Ambient	48-660Vac	1200V Peak	75A

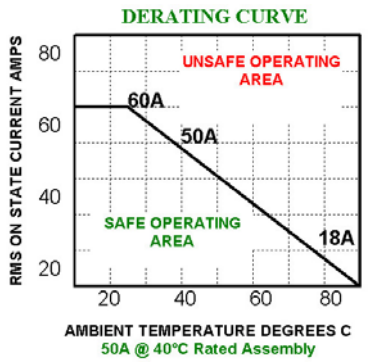
Notes:

- Ratings based upon 100% duty cycle for 20 minutes or 80% duty cycle continuous.
- Ratings based upon relays being mounted either individually or side by side with zero spacing.
- Cool One's unique construction allows better performance than conventional heat sink designs even when mounted side by side.

THERMAL CURVES







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25, 40 & 50 SCR Power Controllers 0-135Ω Input

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Application Information

The APCSCR series are phase angle SCR Power Controllers. The 0-135Ω input series has a dedicated input and can only accept 0-135Ω. This function is dip switch selected at Anacon and is noted on the front of this data sheet. The power delivered to the load is proportional to the command signal input.

Input selection is restricted to 0-135Ω.

A line to 24Vac transformer supplies power and phase information to the controller card. The transformer is connected across the AC power source as noted below. There is a feature to compensate for line voltage variation. By adjusting the phase angle automatically with line voltage changes, constant power is maintained at the load. To use the line voltage compensation feature properly, the 24Vac transformer should be fed from the same mains as the load circuit to be controlled per the wiring diagram below. Line voltage compensation can be enabled or disabled via dip switch selections noted on front of this specification.

A separate control transformer is required for each APCSCR assembly.

See User manual for complete list of commands & wiring options.

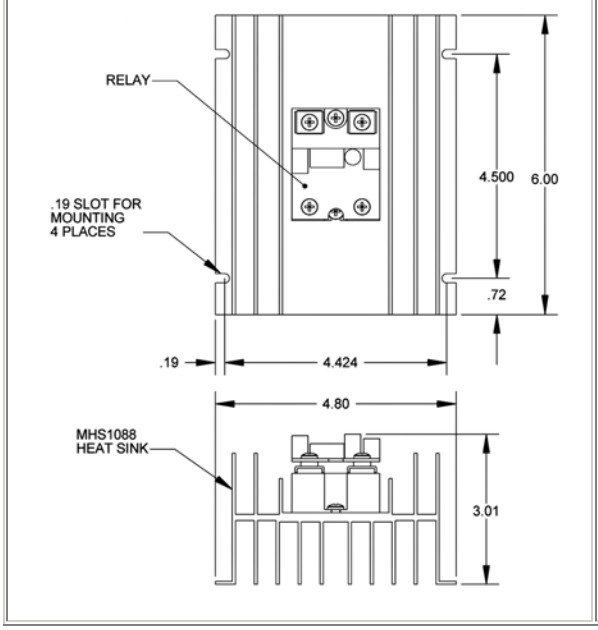
Command Input

Command Input	1	2	3	5
0-135Ω*	On	Off	Off	Off
Feature Enable			**4**	**6**
Line Voltage Comp Enable (Default)			Off	Off
None			Off	On
Soft Start			On	On
Soft Start & Line Voltage Comp Enabled			On	Off

*Feature is set for 135Ω Operation by Anacon.

Contact Anacon Power & Controls for applications assistance - 800-466-9080.

MECHANICAL DRAWING



0-135Ω INPUT WIRING DIAGRAM