RF1 SCR SERIES

POWER CONTROLS

The RF1 SCR Series is designed to deliver maximum power control with all of the features normally found in much larger units. Utilizing only two frame sizes, these units are conservatively engineered for years of trouble free service while providing the benefits of precise, reliable control of for your electronic process.

The RF1 SCR Series accepts all standard voltage and current command signals or remote potentiometer input. The 4-20 mA command signal is optically isolated. Standard operating voltages are 120, 240, 400, 480 & 575 Vac, 50/60Hz.

Multi-turn Zero and span adjustments are provided for matching the SCR power control to the command signal. Control power, command signal and blown fuse indicators are provided as means for trouble shooting. The control power indicator (red) indicates power has been applied to the unit. The command signal indicators' (green) brilliance is proportional to the output voltage. The blown fuse indicator (yellow) light if the fuse is cleared.

Applications:

Primarily used to control transformer coupled RF loads.

30-225 Amperes Single-phase Phase-fired



- 5 year "No Hassle" warranty
- Electrically Isolated Heatsink
- Compact Size
- Conservative Thermal Design
- Voltage Squared Linearity
- Line voltage compensation
- Transient voltage Protection (RC & MOV)
- 1400 PIV SCRs
- Semiconductor (I²T) Fuse
- Diagnostic Indicators
- Optically Isolated input Command Signal (4-20 mA)
- Multi-Turn Zero & Span Adjustments
- Over current trip included



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Fax: 614-308-5506 www.hdrpower.com



SPECIFICATIONS:

Control Method: Phase-firing of back-to-back SCRs

Voltage Rating: 120, 240, 400, 480, 575 Vac

Line Frequency: 50 / 60 Hz

Current Ratings: 30, 60, 90, 120, 225 Amperes Command Signal: Most standard process signals

Adjustments: Zero and Span, multi-turn

Linearity: Output is linear within 2% of span over entire range of control

Isolation: 2500 volts rms from power circuit to command

signal and to ground

Overtemp Protection: Heatsink thermostat provided on 90

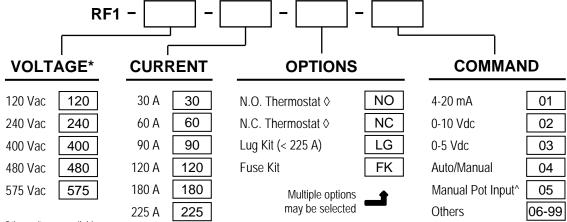
A and higher models

Ambient Temperature: Operating: 0 °C to 50 °C

Relative humidity: 0 to 95% (non-condensing)

HOW TO ORDER:

Make a selection from each of the tables below. Place the selection in the corresponding boxes to build your model.

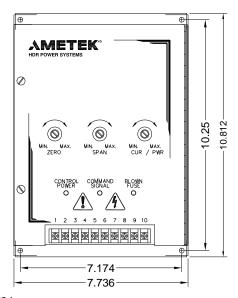


^{*} Other voltages available

Consult Factory for other sizes

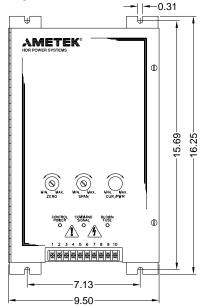
OUTLINES:

30 thru 60 A



Depth: 6.279 in Weight: 6 lbs

90 thru 225 A



Depth: 9.25 in Weight: 18 lbs

[♦] Thermostat included above 60 A, specify N.O. or N.C.

[^] Manual Pot requires external potentiometer (5 $k\Omega$)