# **RF3 SCR SERIES**

## **POWER CONTROLS**

The RF3 SCR Series are three-phase (6 SCR), phasefired SCR Power Controls designed to deliver maximum power control with all of the features normally found in much larger units. Utilizing only four 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 PF3 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, 3 Phase, 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 indicators (3-yellow) light if a fuse is cleared.

## 30-1200 Amperes Three-phase Phase-fired



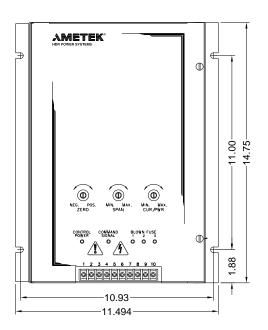
- 5 year "No Hassle" warranty
- Electrically Isolated Heatsink (30-225 A)
- Compact Size
- Conservative Thermal Design
- Voltage Squared Linearity
- Line voltage compensation
- Transient voltage Protection (RC & MOV)
- 1400 PIV SCRs
- Semiconductor (I<sup>2</sup>T) Fuse
- Diagnostic Indicators
- Optically Isolated input Command Signal (4-20 mA)
- Multi-Turn Zero & Span Adjustments
- Fan Cooled (90 A and higher)
- Over current trip included

### Applications

Primarily used to control transformer coupled RF loads.

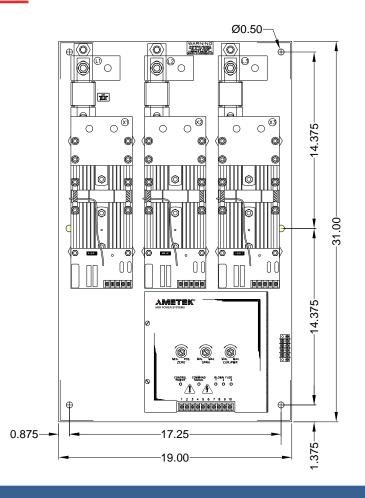




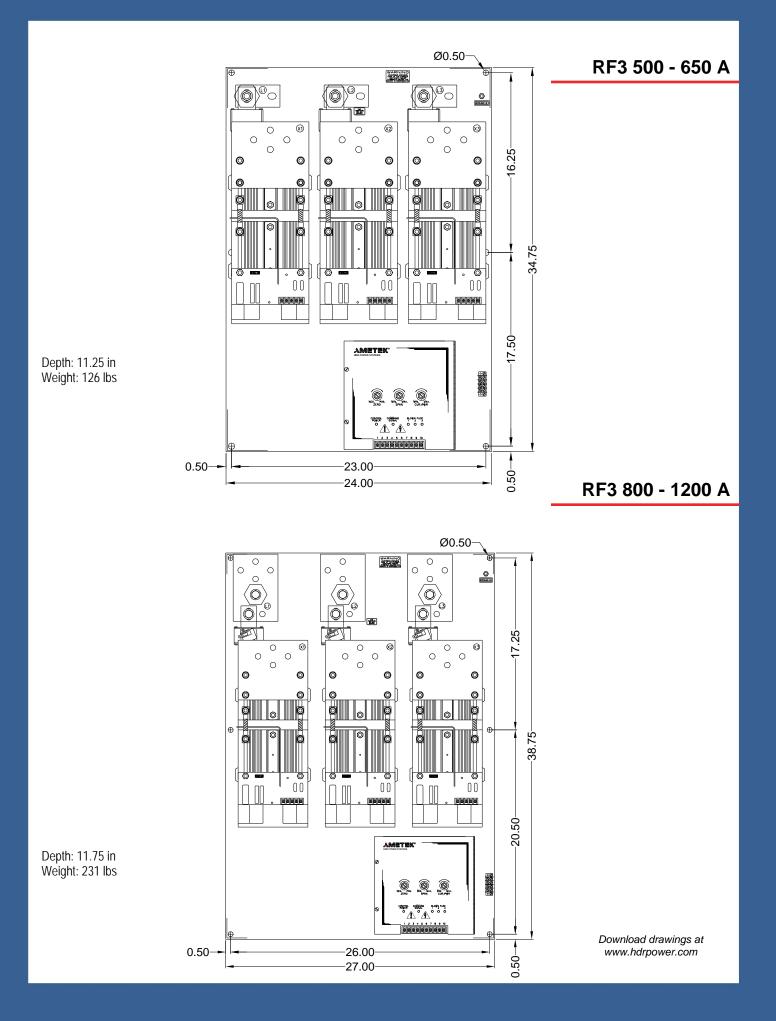


Depth: 9.5 in Weight: 33 lbs

#### RF3 350 - 500 A



Depth: 8.5 in Weight: 60 lbs



### **SPECIFICATIONS:**

**Control Method**: Phase-firing of six back-to-back SCRs (3-leg control)

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

Line Frequency: 50 / 60 Hz

**Current Ratings:** 60, 90, 120, 180, 225, 350, 500, 650, 800, 1000, 1200 Amperes

Command Signal: Most standard process signals

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

Adjustments: Zero and Span, multi-turn

**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.

