MODEL **SHPF3** SERIES POWER CONTROLS

Three-Phase (6 SCR) Phase-Fired Models Rated 15 - 225 Amperes

The **SHPF3 Series** is designed to deliver maximum power control with all 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 for your electrical process.

The SHPF3 Series accepts all standard voltage and current command signals or a remote potentiometer input. The 4-20 mA command signal is optically isolated. Standard operating voltages are 120, 240, 400, 480 & 575 Vac, 3 Phase, 50/60 Hz. Other voltages are available.

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 a means for trouble shooting. The control power indicator (red) indicates power has been applied to the unit. The command signal's (green) brilliance is proportional to the output voltage. The blown fuse indicators (3-yellow) light if a fuse is cleared (60-225A).

Applications:

Primarily used to control dynamic resistive or transformer coupled loads.

- High temperature furnaces
- Large ovens, kilns & heaters
- IR Heating



- Electrically Isolated Heat Sink
- 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
- Silkscreened Printed Circuit Boards
- UL, cUL Listed, CE Compliant
- 5 year "No Hassle" warranty
- Fan Cooled (90A and higher)

- 10100 Royalton Rd. - Cleveland, OH 44133 USA - Tel: (440) 237-3200 - Fax (440) 237-1744 - http://iseinc.com

www.iseinc.com

SPECIFICATIONS:

Control Method: phase-firing of six back-to-back SCRs (3-leg Control)

Voltage Rating: 120, 240, 400, 480, 575 Vac, 3 phase, 50/60 Hz

Current Ratings: 15, 25, 30, 60, 90, 120, 180, 225 Amperes

Command Signal: Most standard process signals

Isolation: 2500 volts rms from power circuit to command signal and to ground

120 Vac

240 Vac

400 Vac

480 Vac

575 Vac

Make one selection from each of the four tables below. Place the selections in the corresponding boxes to build your model number. Adjustments: Zero and span, multi-turn

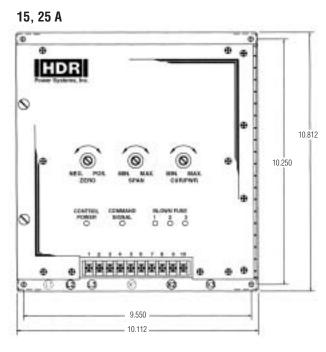
Ambient Temperature: Operating: 0° to 50°C Storage: -10° to 70°C

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

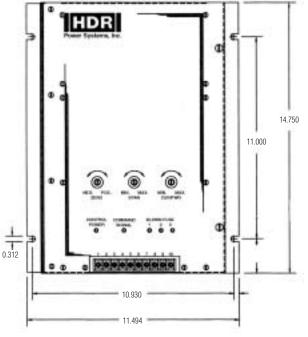
Weights: 15, 25A - 11 lbs.; 30 thru 225A - 33 lbs.

can have **HOW TO ORDER:** multiples SHPF3 -ิต 2 3 4 **OVOLTAGE TABLE*** **2** CURRENT TABLE \bigcirc OPTIONS TABLE^{Δ} **(A)** COMMAND SIGNAL TABLE 120 15 Arms 15 N.O. Thermostat NO 01 4-20 mA 240 25 Arms 25 N.C. Thermostat NC 0-10 Vdc 02 400 30 Arms **RMS Current Limit/OC** 30 CL 0-5 Vdc 03 480 60 Arms 60 **RMS Current Reg/OC** CR 04 Auto/Man **Over Current Trip** 575 90 Arms 90 0C *Manual Pot Input 05 06 to 99 120 Arms 120 True Power Reg/CL PR Others 180 Arms 180 Load Unbalance Alarm UB 225 Arms 225 SCR Failure Alarm SF *Other voltages available *Requires external potentiometer (5k) PZA *Phase Zero Adaptor ^AThermostat included above 60A Specify N.O. or N.C. *Not UL approved

DIMENSIONS:



30 thru 225 A



Depth: 6.376