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



Model SHPF3

- · Electrically Isolated Heat Sink
- Compact Size
- · Conservative Thermal Design
- · Voltage Squared Linearity
- Line Voltage Compensation
- Transient Voltage Protection (RC & MOV)

Model SHPF3 Series Power Controls

- 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)



George R. Peters Associates BALES REPRESENTATIVES

(248) 524-2211 • Fax (248) 524-1758 Web Site: www.grpeters.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

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.

HOW TO ORDER:

Make one selection from each of the four tables below. Place the selections in the corresponding boxes to build your model number.

SHPF3 -	 		- [•
		can have multiples		

1 VOLTAGE TABLE*

VOLINGE	INDL
120 Vac	120
240 Vac	240
400 Vac	400
480 Vac	480
575 Vac	575

2 CURRENT TABLE

COMMENT	INDLL
15 Arms	15
25 Arms	25
30 Arms	30
60 Arms	60
90 Arms	90
120 Arms	120
180 Arms	180
225 Arms	225

³ OPTIONS TABLE $^{\Delta}$

Specify N.O. or N.C.

*Not UL approved

OI HONG IABLE		
N.O. Thermostat	NC	
N.C. Thermostat	NC	
RMS Current Limit/OC	CL	
RMS Current Reg/OC	CF	
Over Current Trip	00	
True Power Reg/CL	PF	
Load Unbalance Alarm	UE	
SCR Failure Alarm	SF	
*Phase Zero Adaptor	PZ	
$^{\Delta}$ Thermostat included above 60A		

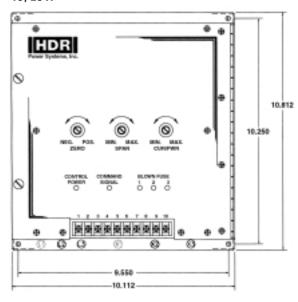
⁴ COMMAND SIGNAL TABLE

4-20 mA	01
0-10 Vdc	02
0-5 Vdc	03
Auto/Man	04
*Manual Pot Input	05
Others	06 to 99

^{*}Requires external potentiometer (5k)

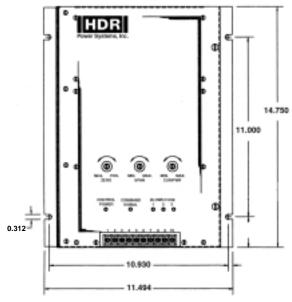
DIMENSIONS:

15, 25 A



Depth: 6.376

30 thru 225 A



Depth: 9.508

^{*}Other voltages available