MODEL **PF3** SERIES Power Controls

Three-Phase (6 SCR) Phase-Fired Models Rated 60 - 1200 Amperes

The **PF3 Series** are three-phase (6 SCR), phase-fired SCR Power Controls designed to deliver maximum power control with all 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 for your electrical process.

The PF3 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, 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 indicator's (green) brilliance is proportional to the output voltage. The blown fuse indicators (3-yellow) light if a fuse is cleared.



MODEL PF3

- Electrically Isolated Heat Sinks (60-225A)
- 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
- Silkscreen Printed Circuit Boards
- UL,cUL Listed, CE Compliant
- 5 year "No Hassle" warranty
- Fan Cooled (90A and higher)
- DC Output Available

Applications:

Primarily used to control dynamic resistive or transformer coupled loads.

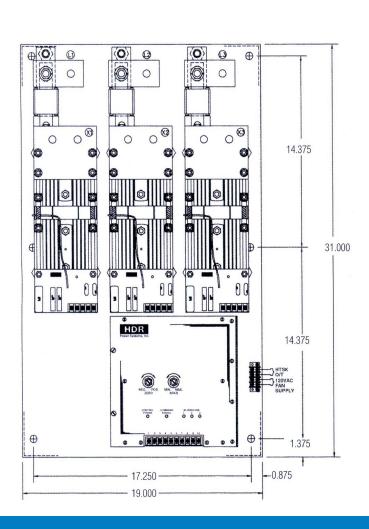
- High temperature furnaces
- Large ovens, kilns & heaters
- IR Heating

Model PF3 60-225A Depth: 9.250 Depth: 9.250 Depth: 9.250

NOTE: Refer to SHPF3 Dimensions for DC Output

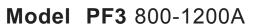
Model PF3 350-500A

Depth: 8.500

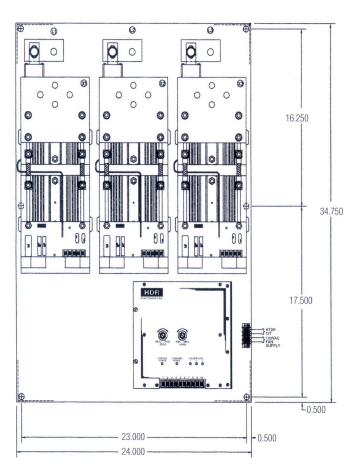


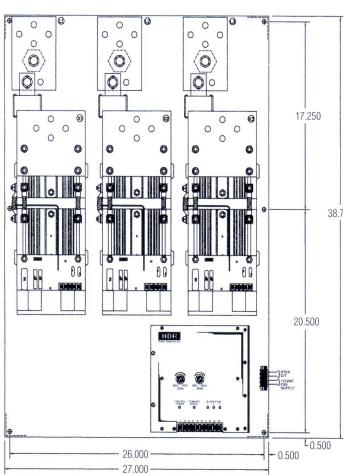


Depth: 11.250



Depth: 11.750





SPECIFICATIONS:

Control Method: Phase-firing of six (6)

back-to-back SCRs (3-leg Control)

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

50/60 Hz,

Current Ratings: 60, 90, 120, 180, 225, 350,

500, 650, 800, 1000, 1200

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

> -10° to 70° C Storage:

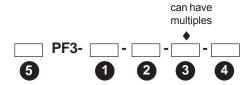
Relative Humidity: 0 to 95% (non-condensing)

40 lbs. Weights: 60-225A

350-500A 60 lbs. 650A 126 lbs. 800-1200A 231 lbs.

HOW TO ORDER:

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



VOLTAGE TABLE*

120
240
400
480
575

*Other voltages available

60	Amps	60
90	Amps	90
120	Amps	120
180	Amps	180
225	Amps	225
350	Amps	350
500	Amps	500
650	Amps	650
800	Amps	800
1000	Amps	1000

1200

1200 Amps

2 CURRENT TABLE

OPTION TABLE

OPTION TABLE ^a	4	COMMAND SIGNAL	TABLE
N.O. Thermostat	NO		
N.C. Thermostat	NC	4-20 mA	01
RMS Current Limit/OC	CL	0-10 VDC	02
RMS Current Reg/OC	CR	0-5 VDC	03
Over Current Trip	OC	Auto/Man	04
True Power Reg/CL	PR	*Manual Pot Input	05
Load Unbalance Alarm	UB	Others	06-99
SCR Failure Alarm	SF		
Lug Kit (greater than 225A)	LG		
■Phase Zero Adapter	PZA	*Requires external poter	ntiometer (5k

■Not UL,cUL Listed

Specifications subject to change without notice

WATER COOLING W (Not UL, cUL, CE approv

DC OUTPUT DC

[∆]Thermostat included above 60A Specify N.O. or N.C.