MODEL **PF1** SERIES Power Controls

Single-Phase Phase-Fired Models Rated 15 - 70 Amperes

The **PF1 Series** are single-phase, phase-fired Solidstate Relay (SSR) Power Controls designed to deliver maximum power control with the reliability normally found in much larger units. Utilizing only two frame sizes, these units are conservatively engineered for years of troublefree service while providing the benefits of precise, reliable control for your electrical process.

The PF1 Series accepts all standard voltage and current command signals or a remote potentiometer input. Standard operating voltages are 120, 240, 400, 480 & 575 Vac, 50/60 Hz. Other voltages are available. Solidstate Relay type controllers are not recommended for driving transformers.

Multi-turn zero and span adjustments are provided for matching the SCR power control to the command signal. The command signal indicator's (green) brilliance is proportional to the input command signal.

- Electrically Isolated Heat Sinks
- Conservative Thermal Design
- Compact Size
- Voltage Squared Linearity
- Line Voltage Compensation
- Transient Voltage Protection (MOV)
- Soft-Start
- Command Signal Indicator
- Multi-Turn Zero & Span Adjustments
- Silkscreen Printed Circuit Boards
- UL,cUL Listed, CE Compliant
- 5 year "No Hassle" warranty

Applications:

Primarily used to control dynamic resistive loads.

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



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

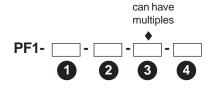
SPECIFICATIONS:

Control Method:	Phase-firing of back-to-back SSRs
Voltage Rating:	120, 240, 400, 480, 575 Vac, 50/60 Hz,
Current Ratings:	15, 25, 40, 70 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 thru 40A - 1.2 lbs. 70A - 3.0 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.



1	VOLTAGE TABLE*		
	120 Vac	120	

240 Vac 240 400 Vac 400 480 Vac 480 575 Vac 575

15	Amps	[
25	Amps	[

40 Amps

70 Amps

CURRENT TABLE

15

25

40

70

3 OPTION TABLE

N.O. Thermostat N.C. Thermostat Current Limit **Over Current Trip** Fuse Kit ⁴24 Vac Transformer

[△] REQUIRED

NO NC CL OC FK ТΧ

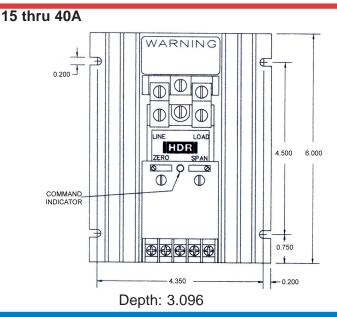
4-20 mA (Self Powered)	01
0-10 VDC	02
0-5 VDC	03
*Manual Pot Input	05
Others	06-99

4 COMMAND SIGNAL TABLE

* Requires external potentiometer (5k)

*Other voltages available





Specifications subject to change without notice

