POWER CONTROLS

The PF3 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.

Applications

Primarily used to control dynamic resistive or transformer couple loads.

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







60-1200 Amperes Three-phase Phase-fired



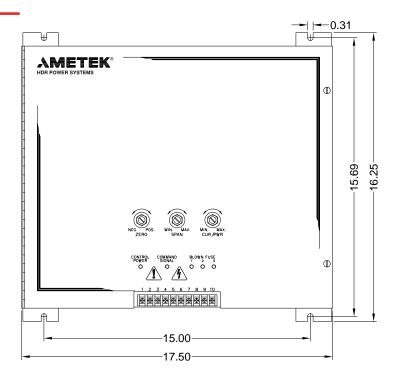
- 5 year "No Hassle" warranty
- Electrically Isolated Heatsink (60-225 A)
- Compact Size
- **Conservative Thermal Design**
- Voltage Squared Linearity
- Line voltage compensation
- Transient voltage Protection (RC & MOV)
- 1400 PIV SCRs
- Semiconductor (I²T) Fuse
- **Diagnostic Indicators**
- **Optically Isolated input Command Signal** (4-20 mA)
- Multi-Turn Zero & Span Adjustments
- UL, cUL Listed, CE Compliant
- Fan Cooled (90 A and higher)



530 Lakeview Plaza Blvd Ste C Worthington, Ohio 43085 Toll Free: 1-888-PWR-CNTR (797-2685)

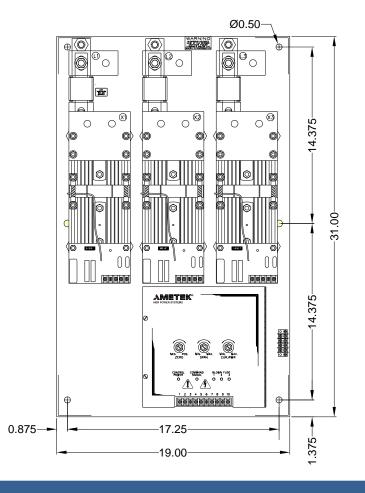
Phone: 614-308-5500 Fax: 614-308-5506 www.hdrpower.com

PF3 60 - 225 A

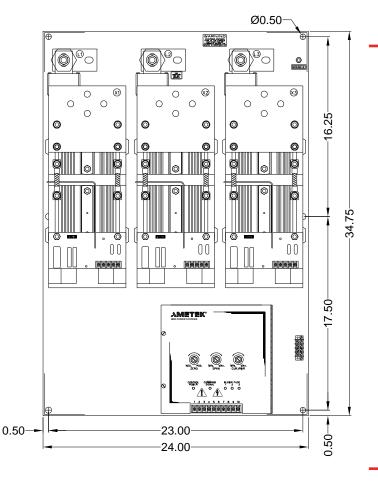


Depth: 9.25 in Weight: 40 lbs

PF3 350 - 500 A

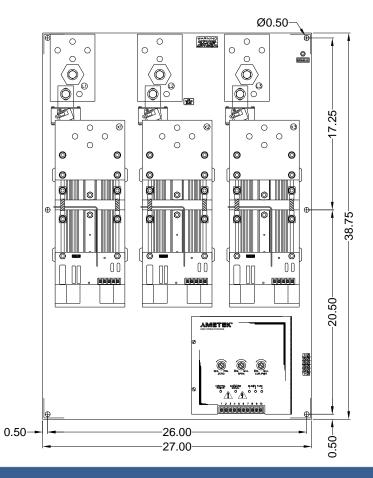


Depth: 8.5 in Weight: 60 lbs



Depth: 11.25 in Weight: 126 lbs

PF3 800 - 1200 A



Depth: 11.75 in Weight: 231 lbs

Download drawings at www.hdrpower.com

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.

