MODEL **ZF2** SERIES Power Controls

Three-Phase (3-Wire Only) Zero-Fired Models Rated 60 - 1200 Amperes

The **ZF2 Series** are three-phase (3-wire only) zero-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 ZF2 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 indicator's (green) brilliance is proportional to the output voltage. The blown fuse indicators (3-yellow) light if a fuse is cleared.



MODEL **ZF2**

- 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 (l²t) Fuse
- Diagnostic Indicators
- 3rd Leg Fused
- 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)

Applications:

Primarily used to control static resistive or non-inductive loads.

- Small electric furnaces
- Electric ovens, kilns & heaters
- Extrusion or injection molding

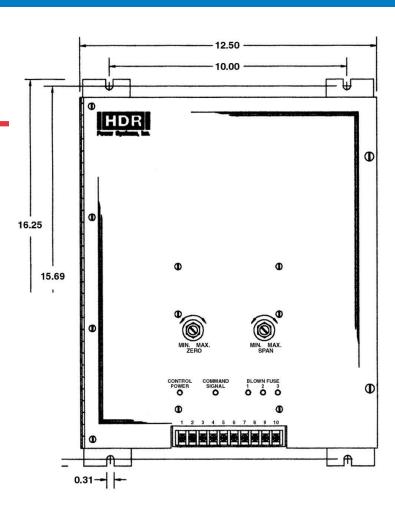


George R. Peters Associates BALES REPRESENTATIVES

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

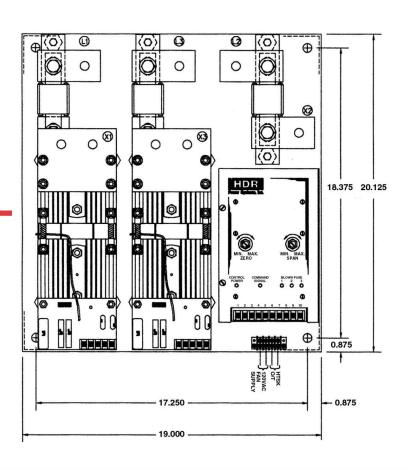
Model ZF2 60-225A

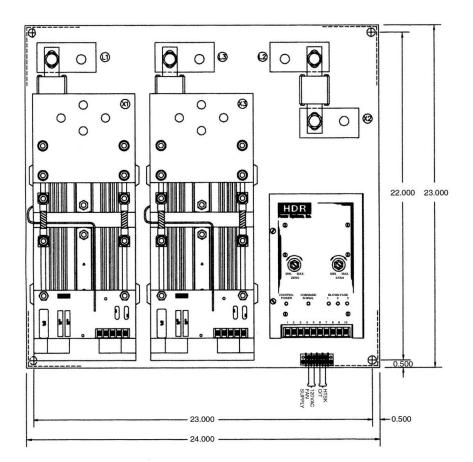
Depth: 9.250



Model ZF2 350-500A

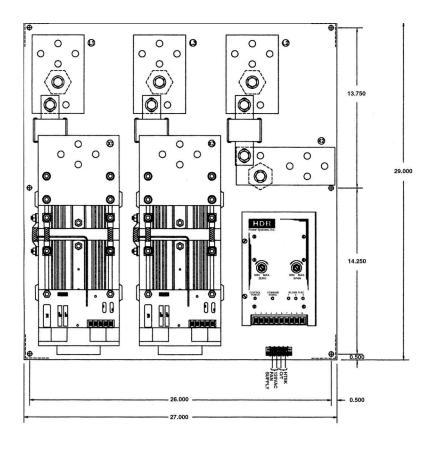
Depth: 8.50





Model ZF2 650A

Depth: 11.250



Model ZF2 800-1200A

Depth: 11.750

SPECIFICATIONS:

Control Method: Zero-firing of back-to-back

SCRs (2-leg Control)

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

3 phase, 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

Storage: -10° to 70° C

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

Weights: 60-225A 31 lbs.

350-500A 41 lbs. 650A 87 lbs. 800-1200A 180 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

*Other voltages available

2 CURRENT TABLE	Е
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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	Amps	1200	

3 OPTION TABLE ^Δ

N.O. Thermostat	NO
N.O. Memosiai	NO
N.C. Thermostat	NC
SCR Failure Alarm	SF
Load Unbalance Alarm	UB
Lug Kit (greater than 225A)	LG

$^{\Delta}$ Thermostat included above 60A
Specify N.O. or N.C.

4 COMMAND SIGNAL TABLE

4-20 mA (Self Powered)	01
0-10 VDC	02
0-5 VDC	03
Auto/Man	04
*Manual Pot Input	05
Others	06-99

^{*}Requires external potentiometer (5k)

Specifications subject to change without notice



(Not UL, cUL, CE approved)