

MODEL SHZF2 SERIES

Power Controls

Three-Phase (3-Wire Only) Zero-Fired Models
Rated 15 - 225 Amperes

The **SHZF2 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 SHZF2 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 (60-225A).



MODEL SHZF2

- Electrically Isolated Heat Sinks
- Conservative Thermal Design
- Compact Size
- Voltage Squared Linearity
- Line Voltage Compensation
- Transient Voltage Protection (RC & MOV)
- 1400 PIV SCRs
- Semiconductor (I²t) 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

AMETEK[®]

HDR POWER SYSTEMS
Toll Free: 1-888-PWR-CNTL

1-888-797-2685

Fax: 1-614-308-5506

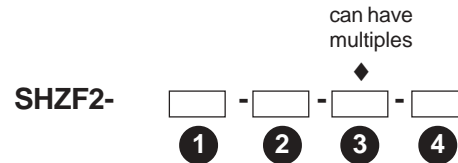
Web: www.hdrpower.com

SPECIFICATIONS:

Control Method:	Zero-firing of back-to-back SCRs (2-leg Control)	Isolation:	2500 volts rms from power circuit to command signal and to ground
Voltage Rating:	120, 240, 400, 480, 575 Vac, 3 phase, 50/60 Hz,	Adjustments:	Zero and span, multi-turn
Current Ratings:	15, 25, 30, 60, 90, 120, 180, 225 Amperes	Ambient Temperature:	Operating: 0° to 50° C Storage: -10° to 70° C
Command Signal:	Most standard process signals	Relative Humidity:	0 to 95% (non-condensing)
		Weights:	15,25A 6 lbs. 30-225A 33 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	<input type="text" value="120"/>
240 Vac	<input type="text" value="240"/>
400 Vac	<input type="text" value="400"/>
480 Vac	<input type="text" value="480"/>
575 Vac	<input type="text" value="575"/>

*Other voltages available

② CURRENT TABLE

15 Amps	<input type="text" value="15"/>
25 Amps	<input type="text" value="25"/>
30 Amps	<input type="text" value="30"/>
60 Amps	<input type="text" value="60"/>
90 Amps	<input type="text" value="90"/>
120 Amps	<input type="text" value="120"/>
180 Amps	<input type="text" value="180"/>
225 Amps	<input type="text" value="225"/>

③ OPTION TABLE ^Δ

N.O. Thermostat	<input type="text" value="NO"/>
N.C. Thermostat	<input type="text" value="NC"/>
Load Unbalance Alarm	<input type="text" value="UB"/>
SCR Failure Alarm	<input type="text" value="SF"/>

^Δ Thermostat included above 60A
Specify N.O. or N.C.

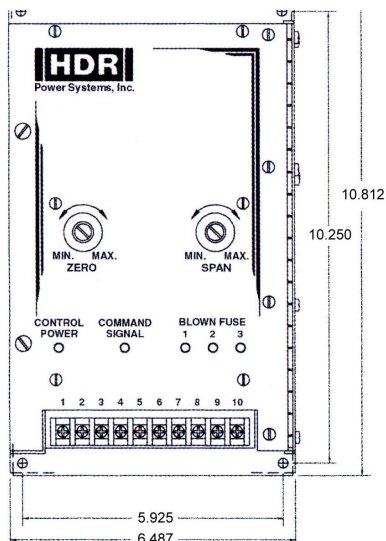
④ COMMAND SIGNAL TABLE

4-20 mA	<input type="text" value="01"/>
0-10 VDC	<input type="text" value="02"/>
0-5 VDC	<input type="text" value="03"/>
Auto/Man	<input type="text" value="04"/>
*Manual Pot Input	<input type="text" value="05"/>
Others	<input type="text" value="06-99"/>

*Requires external potentiometer (5k)

DIMENSIONS:

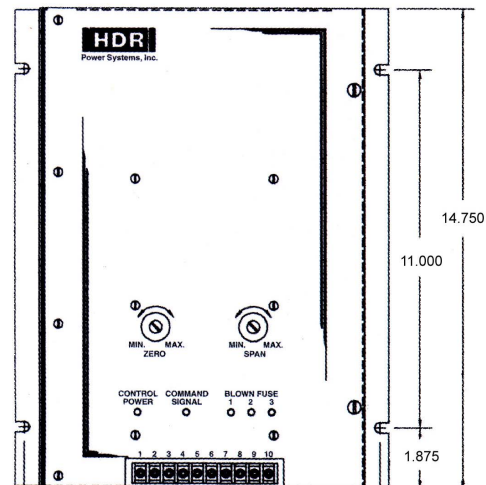
15, 25 A



Depth 6.341

Specifications subject to change without notice

30 thru 225 A



Depth 9.508