

MODEL SHZF1 SERIES

Power Controls

Single-Phase Zero-Fired Models
Rated 15 - 120 Amperes

The **SHZF1 Series** are single-phase, zero-fired SCR Power Controls 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 SHZF1 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, 1 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 indicator (yellow) lights if the fuse is cleared (60-120A).



MODEL SHZF1

- Electrically Isolated Heat Sinks
- Conservative Thermal Design
- Compact Size
- Voltage Squared Linearity
- Line Voltage Compensation
- Transient Voltage Protection (RC & MOV)
- 1400 PIV SCRs
- Semiconductor (I^2t) 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

Applications:

Primarily used to control dynamic resistive or transformer coupled loads.

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

SPECIFICATIONS:

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

Voltage Rating: 120, 240, 400, 480, 575 Vac, 50/60 Hz,

Current Ratings: 15, 30, 40, 60, 70, 90, 120 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

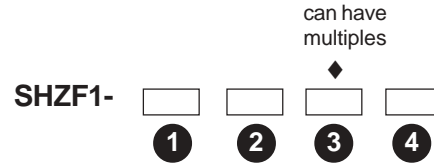
Ambient Temperature: Operating: 0° to 50° C
Storage: -10° to 70° C

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

Weights: 15-60A 6 lbs.
70-120A 18 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"/>
30 Amps	<input type="text" value="30"/>
40 Amps	<input type="text" value="40"/>
60 Amps	<input type="text" value="60"/>
70 Amps	<input type="text" value="70"/>
90 Amps	<input type="text" value="90"/>
120 Amps	<input type="text" value="120"/>

3 OPTION TABLE ^Δ

N.O. Thermostat	<input type="text" value="NO"/>
N.C. Thermostat	<input type="text" value="NC"/>

^ΔThermostat included above 70A
Specify N.O. or N.C.

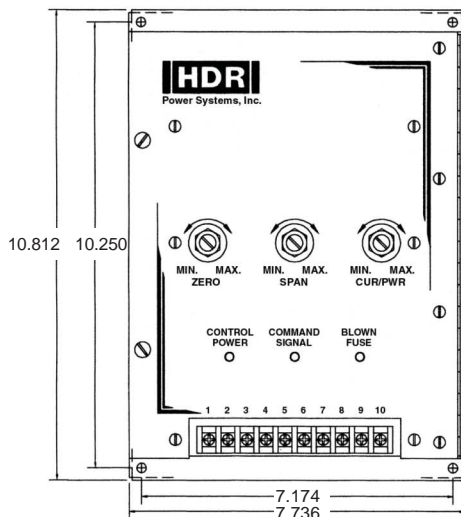
4 COMMAND SIGNAL TABLE

4-20 mA (Self Powered)	<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:

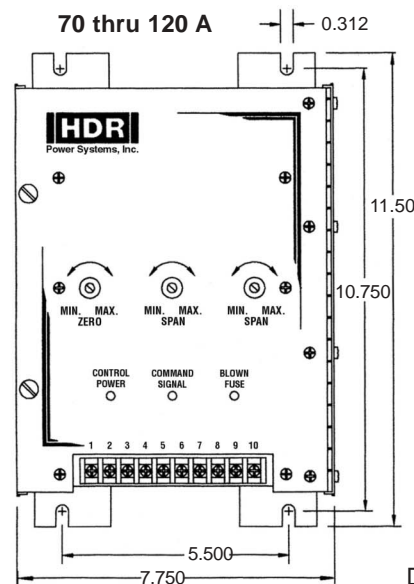
15 thru 60 A



Depth 6.279

Specifications subject to change without notice

70 thru 120 A



Depth 11.187