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).



- Electrically Isolated Heat Sinks
- Conservative Thermal Design
- Compact Size
- Voltage Squared Linearity
- Line Voltage Compensation
- Transient Voltage Protection (RC & MOV)
- 1400 PIV SCRs
- Semiconductor (l²t) 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:

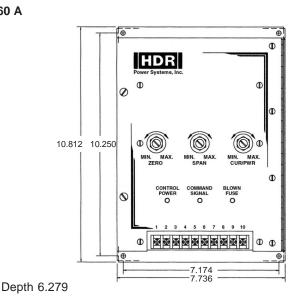
Control Method:	Zero-firing of back-to-back SCRs	Isolation:	2500 volts rms from power circuit to command signal and to ground
Voltage Rating:	120, 240, 400, 480, 575 Vac, 50/60 Hz,	Adjustments:	Zero and span, multi-turn
Current Ratings:	15, 30, 40, 60, 70, 90, 120 Amperes	Ambient Temperature:	Operating: 0° to 50° C Storage: -10° to 70° C
Command Signal:	Most standard process	Relative Humidity:	0 to 95% (non-condensing)
	signals	Weights:	15-60A 6 lbs. 70-120A 18 lbs.
HOW TO ORDE	R:		can have
	n each of the tables shown. he corresponding boxes to er.	SHZF1-	multiples
VOLTAGE TABLE*	2 CURRENT TABLE 3		COMMAND SIGNAL TABLE
120 Vac120240 Vac240400 Vac400480 Vac480575 Vac575		N.O. Thermostat NO N.C. Thermostat NC	4-20 mA (Self Powered) 01 0-10 VDC 02 0-5 VDC 03 Auto/Man 04 *Manual Pot Input 05 Others 06-99

120

*Other voltages available

DIMENSIONS:

15 thru 60 A

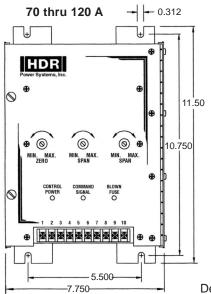


120 Amps

Specifications subject to change without notice

 $^{\Delta}$ Thermostat included above 70A

Specify N.O. or N.C.



Depth 11.187

*Requires external potentiometer (5k)