

MODEL SCZF1 SERIES Power Controls

Single-Phase Zero-Fired Models

Rated 15 - 65 Amperes

The **SCZF1 Series** single-phase, zero-fired SSR (Solidstate Relay) Power Controls are designed for the exacting needs of the ceramic and semiconductor industries as well as standard resistance heating applications.

By combining the European “touchsafe” design with the optional load failure alarm, the SCZF1 serves as the perfect choice for lower current applications.

The optional Load Failure (LF) Alarm includes non-isolated 0-5 VDC signals proportional to the output voltage and current.

A Power On indicator (red) and a Command Signal indicator (green) are provided to help trouble shooting. The inclusion of a control transformer and I²T fuse sets it apart from other SSR type power controls.



MODEL SCZF1

- Electrically Isolated Heat Sinks
- Conservative Thermal Design
- Compact Size
- Voltage Squared Linearity
- Line Voltage Compensation
- Transient Voltage Protection
- Diagnostic Indicators
- Accepts All Standard Command Signals
- Multi-Turn Zero & Span Adjustments
- “Touchsafe” Chassis
- UL,cUL Listed, CE Compliant
- 5 year “No Hassle” warranty

Applications:

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

- Ceramics
- Semiconductors
- Resistance Heating

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

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

Current Ratings: 15, 25, 40, 65 Amperes

Command Signal: Most standard process signals

Isolation: 2500 Vac rms from power circuit to command signal and to ground

Linearity: Voltage squared

Adjustments: Multi-turn, Zero and span potentiometers

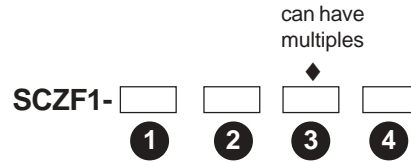
Ambient Temperature: Operating: 0° to 50° C
Storage: -10° to 70° C

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

Weights: 6.0 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"/>
40 Amps	<input type="text" value="40"/>
65 Amps	<input type="text" value="65"/>

3 OPTION TABLE

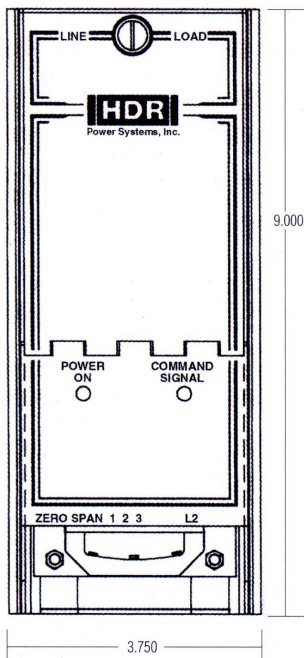
N.O. Thermostat	<input type="text" value="NO"/>
N.C. Thermostat	<input type="text" value="NC"/>
Load Failure Alarm	<input type="text" value="LF"/>

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"/>
*Manual Pot Input	<input type="text" value="05"/>
Others	<input type="text" value="06-99"/>

*Requires external potentiometer (5k)

DIMENSIONS:



Specifications subject to change without notice

