

ZF1 SSR SERIES

POWER CONTROLS

The ZF1 SSR Series are single-phase, zero-fired SCR Power Controls designed to deliver maximum power control with all of 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 of for your electronic process.

The ZF1 SSR Series accepts all standard voltage and current command signals or remote potentiometer input. Standard operating voltages are 120, 240, 400, 480 & 575 Vac, 50/60Hz. Other voltages are available.

Multi-turn Zero and Span adjustments are provided for matching the SCR power control to the command signal. The command signal indicator's (green) flash rate is proportional to the output voltage.

Applications:

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

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



100kA
SCCR



ISO
9001
QUALITY
ASSURANCE

15-70 Amperes
Single-phase
Zero-fired



- 5 year "No Hassle" warranty
- Electrically Isolated Heatsink
- Conservative Thermal Design
- Compact Size
- Voltage Squared Linearity
- Transient voltage Protection (MOV)
- Soft Start
- Command Signal Indicator
- Multi-Turn Zero & Span Adjustments
- UL, cUL Listed, CE Compliant

AMETEK[®]
HDR POWER SYSTEMS

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Fax: 614-308-5506
www.hdrpower.com

SPECIFICATIONS:

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

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

Line Frequency: 50 / 60 Hz

Current Ratings: 15, 25, 40, 70 Amperes

Command Signal: Most standard process signals

Adjustments: Zero and Span, multi-turn

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

Ambient Temperature: Operating: 0 °C to 50 °C

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

HOW TO ORDER:

Make a selection from each of the tables below. Place the selection in the corresponding boxes to build your model.

ZF1 - - - -

VOLTAGE*		CURRENT		OPTIONS		COMMAND	
120 Vac	<input type="text" value="120"/>	15 A	<input type="text" value="15"/>	N.O. Thermostat	<input type="text" value="NO"/>	4-20 mA	<input type="text" value="01"/>
240 Vac	<input type="text" value="240"/>	25 A	<input type="text" value="25"/>	N.C. Thermostat	<input type="text" value="NC"/>	0-10 Vdc \diamond	<input type="text" value="02"/>
400 Vac	<input type="text" value="400"/>	40 A	<input type="text" value="40"/>	Fuse Kit	<input type="text" value="FK"/>	0-5 Vdc \diamond	<input type="text" value="03"/>
480 Vac	<input type="text" value="480"/>	70 A	<input type="text" value="70"/>	24 Vac Transformer	<input type="text" value="TX"/>	Manual Pot Input \wedge	<input type="text" value="05"/>
575 Vac	<input type="text" value="575"/>					Others	<input type="text" value="06-99"/>

Multiple options may be selected

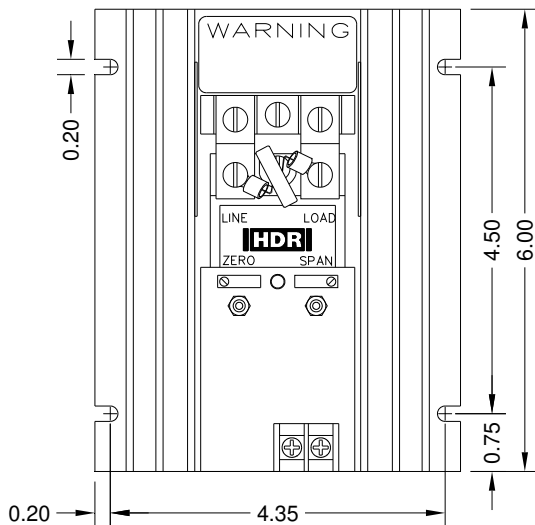
* Other voltages available

\wedge Requires external potentiometer (5 k Ω)

\diamond Requires 24 Vac Transformer

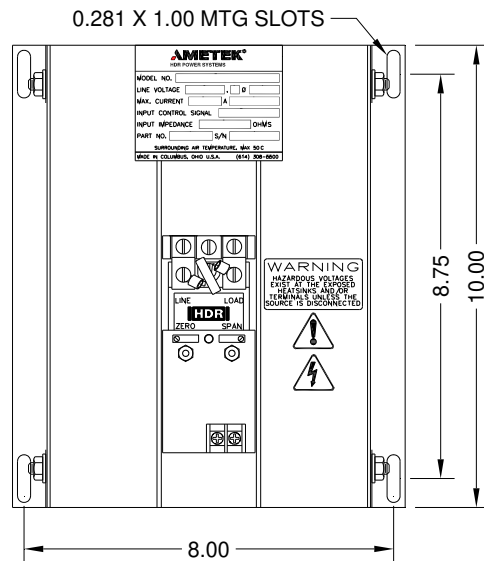
OUTLINES:

15 thru 40 A



Depth: 3.01 in
Weight: 1.2 lbs

70 A



Depth: 5.0 in
Weight: 3 lbs