MODEL ZF2 SERIES
Power Controls
Three-Phase (3-Wire Only) Zero-Fired
Models Rated 15 - 70 Amperes

The ZF2 Series are three-phase, zero-fired Solidstate Relay (SSR) Power Controls designed to deliver maximum power control with the reliability 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 ZF2 Series accepts all standard voltage and current command signals or a remote potentiometer input. 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. The command signal indicator’s (green) flash rate provides a visual indication of 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

ISE, Inc. - 10100 Royalton Rd. - Cleveland, OH 44133 USA - Tel: (440) 237-3200 - Fax (440) 237-1744 - http://iseinc.com
**SPECIFICATIONS:**

**Control Method:** Zero-firing of back-to-back SSRs (2-leg Control)

**Voltage Rating:** 120, 240, 400, 480, 575 Vac 3 phase, 50/60 Hz,

**Current Ratings:** 15, 25, 40, 70 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 thru 40A - 2.5 lbs.,
- 70A - 5.7 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.

![Diagram of how to order](#)

**VOLTAGE TABLE**

- 120 Vac
- 240 Vac
- 400 Vac
- 480 Vac
- 575 Vac

**CURRENT TABLE**

- 15 Amps
- 25 Amps
- 40 Amps
- 70 Amps

**OPTION TABLE**

- N.O. Thermostat
- N.C. Thermostat
- SCR Failure Alarm
- Load Unbalance Alarm
- Fuse Kit
- 24 Vac Transformer

**COMMAND SIGNAL TABLE**

- 4-20 mA (Self Powered)
- 0-10 VDC
- 0-5 VDC
- *Manual Pot Input
- Others

*Other voltages available

**DIMENSIONS:**

**15 thru 40A**

- Depth: 3.096

**70A**

- Depth: 5.000

*Other voltages available

*Requires 24 Vac transformer

*Requires external potentiometer (5k)