

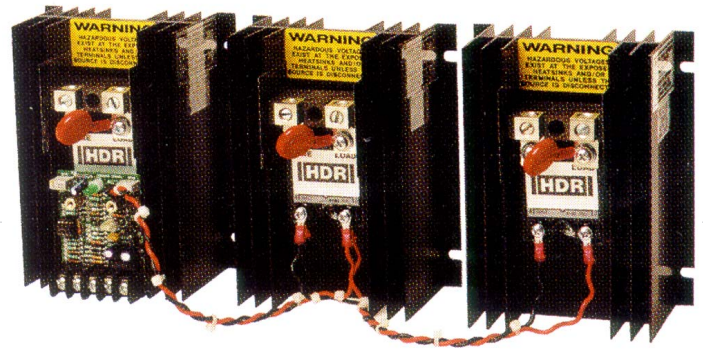
# MODEL ZF3 SERIES Power Controls

Three-Phase (3 or 4 Wire) Zero-Fired  
Models Rated 15 - 70 Amperes

The **ZF3 Series** are three-phase (3 or 4 wire), 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 ZF3 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.



## MODEL ZF3

- Electrically Isolated Heat Sinks
- Compact Size
- Conservative Thermal Design
- Voltage Squared Linearity
- Transient Voltage Protection (MOV)
- Command Signal Indicator
- Multi-Turn Zero & Span Adjustments
- Silkscreen Printed Circuit Boards
- UL,cUL Listed, CE Compliant
- 5 year "No Hassle" warranty

## Applications:

Primarily used to control static resistive or non-inductive 3 or 4 wire loads.

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

# SPECIFICATIONS:

**Control Method:** Zero-firing of back-to-back SSRs (3-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

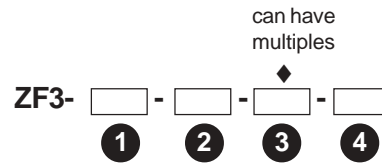
**Ambient Temperature:** Operating: 0° to 50° C  
Storage: -10° to 70° C

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

**Weights:** 15 thru 40A - 3.6 lbs.  
70A - 9.0 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"/>

## 2 CURRENT TABLE

15 Amps	<input type="text" value="15"/>
25 Amps	<input type="text" value="25"/>
40 Amps	<input type="text" value="40"/>
70 Amps	<input type="text" value="70"/>

## 3 OPTION TABLE

N.O. Thermostat	<input type="text" value="NO"/>
N.C. Thermostat	<input type="text" value="NC"/>
SCR Failure Alarm	<input type="text" value="SF"/>
Load Unbalance Alarm	<input type="text" value="UB"/>
Fuse Kit	<input type="text" value="FK"/>
<sup>Δ</sup> 24 Vac Transformer	<input type="text" value="TX"/>

## 4 COMMAND SIGNAL TABLE

4-20 mA	<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"/>

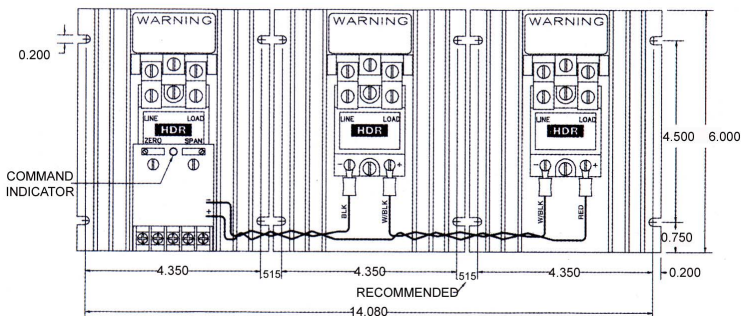
\*Other voltages available

<sup>Δ</sup>REQUIRED

\*Requires external potentiometer (5k)

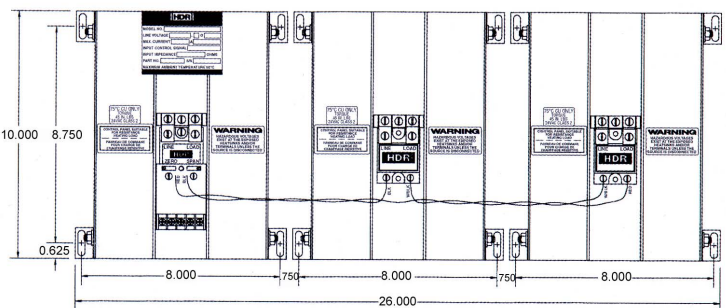
# DIMENSIONS:

## 15 thru 40A



Depth: 3.096

## 70A



Depth: 5.000