MODEL SCPF1 SERIES
Power Controls
Single-Phase Phase-Fired Models
Rated 15 - 65 Amperes

The SCPF1 Series single-phase, phase-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.

Nearly any application* requiring phase-firing can use the SCPF1 SCR Power Control. The “Touchsafe” chassis and many available option make the SCPF1 Series 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 I^2T fuse sets it apart from most SSR type power controls.

* Not recommended for inductive or transformer coupled loads.

Applications:
Primarily used to control dynamic resistive, non-inductive loads.

- Ceramics
- Semiconductors
- Resistance Heating
- IR Heating

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

**Control Method:** Phase-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 input 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
   - 240 Vac
   - 400 Vac
   - 480 Vac
   - 575 Vac

2. **CURRENT TABLE**
   - 15 Amps
   - 25 Amps
   - 40 Amps
   - 65 Amps

3. **OPTION TABLE**
   - N.O. Thermostat
   - N.C. Thermostat
   - RMS Current Limit
   - Over Current Trip
   - Load Failure Alarm

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

*Requires external potentiometer (5k)

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**DIMENSIONS:**

Specifications subject to change without notice