The “A” Series SCR Power Controllers are a compact and economical power control solution for industrial applications that require high reliability and long life. The fast solid state switching provides superior performance over relays, contactors and other slower cycling controllers by reducing temperature variations associated with the longer on-off cycles of those devices. The result is a more precise control of the heating process and extended heater life.

➤ Fast Cycling Distributive Zero Cross or Phase Angle Firing Control Modes
➤ Line Voltage Compensation
➤ Compact Size; Diagnostic LED; Increased Heater Life

### Specifications

- **Command Signals:** 4-20mA; 0-5 VDC; 0-10 VDC; potentiometer
- **Control Mode:** Distributive Zero Cross; Phase Angle Firing
- **Load Current:** 15, 25, 40 or 70 Amps
- **Line Voltage:** 120, 240, 480, or 575 V AC; +10% -20% 50/60 Hz
- **Zero and Span:** Factory pre-set. User adjustable over a range of 20% of span.
- **Zero Cross:** 0 to 100% of line voltage
- **Phase Angle Firing:** Linear with respect to the command signal
- **Linearity:** RMS load voltage is linear within 2% of the command signal.
- **Transient Voltage:** 200 volts/microsecond minimum. Uses a dv/dt snubber and a metal oxide varistor. (MOV)
- **Temperature Operating:** 32 to 122°F (0 to 50°C)
- **Storage:** 14 to 198°F (-10 to 70°C)
- **Cooling:** Convection
- **Mounting:** Panel mount with heat sink fins vertical

### Dimensions

- **15-40 Amp units—Overall:** 4.75"W × 6.0"H × 3.1"D
  - **Mounting Centers:** 4.35"W × 4.5"H
- **70 Amp units—Overall:** 8.5"W × 10"H × 5"D
  - **Mounting Centers:** 8.0"W × 8.75"H
- **Weight:**
  - 15-40 Amp units: 1.2 lb.
  - 70 Amp units: 3 lb

### Notes:

- Fusing is not included. Class T fuses are recommended.
- All control input configurations require 24 VAC power supply except zero cross with 4-20mA input.

### Ordering Code:

<table>
<thead>
<tr>
<th>Control Mode</th>
<th>Line Voltage</th>
<th>Control Input</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z: Distributive Zero Cross</td>
<td>1: 120 VAC</td>
<td>A: 4 to 20 mA</td>
<td>E: Over-Temperature Thermostat – N.O. Contacts</td>
</tr>
<tr>
<td>P: Phase Angle Fire</td>
<td>2: 240 VAC</td>
<td>B: 0 to 5 VDC</td>
<td>F: Over-Temperature Thermostat – N.C. Contacts</td>
</tr>
<tr>
<td>xx: 15, 25, 40 or 70 Amps</td>
<td>3: 480 VAC</td>
<td>C: 0 to 10 VDC</td>
<td>N: None</td>
</tr>
<tr>
<td></td>
<td>4: 575 VAC</td>
<td>D: Potentiometer</td>
<td>(for phase angle fire models only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>E: Over-CURRENT Trip</td>
</tr>
</tbody>
</table>

### Potentiometer Kit (ordered separately): 5KΩ potentiometer and knob

- **Part number:** SRS99001

### Multi-Tap Transformer

- **Input:** 120/240V, 400V, 480V or 575V
- **Output:** 24VAC
- **Part number:** SRS99002

**Standard lead time is 2 to 3 weeks.**

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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