Three Phase SCR Power Controllers

The “D” Series SCR Power Controllers are two-leg zero cross SCR power controls that linearly control, proportional to the command signal, the power applied to a 3-phase electrical load.

The Series “D” controller features a compact design, a single plug-in circuit card for ease of operation and an electrically isolated heat sink. All three leads are fused.

**Command Signals:** 4-20 mA; 0-5 VDC; 0-10 VDC; potentiometer

**Control Mode:** Distributive Zero Cross

**Load Current per Leg:** 60, 90, 120, 180, 225, 350, 500, 650, 800, 1000, 1200 Amps

**Line Voltage:** 208, 240, 480 or 575 V AC; 10% to 20% 50/60 Hz

**Zero and Span:** Factory pre-set. User adjustable over a range of 20% of span.

**Transient Voltage and dv/dt:** 200 volts/microsecond minimum. Uses a dv/dt snubber and a metal oxide varistor (MOV).

**Control Range:** 0 to 99.5% of line voltage

**Linearity:** Average load voltage is linear within 2% of the command signal.

**Temperature**

- **Operating:** 32 to 122°F (0 to 50°C)
- **Storage:** 14 to 158°F (-10 to 70°C)

**Cooling:** 60A convection; all others fan cooled

**Partial case shown for 60 to 225 Amp units. 350 Amp and up use a caseless, open panel mount design.**

**Specifications**

<table>
<thead>
<tr>
<th>Command Signals</th>
<th>Control Input BOX 1</th>
<th>Line Voltage BOX 3</th>
<th>Load Current BOX 2</th>
<th>Options (up to two) BOX 4, 5</th>
<th>Potentiometer Kit (ordered separately): 5KΩ potentiometer and knob Part number: SRS99001</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5 VDC</td>
<td>B</td>
<td>C</td>
<td></td>
<td></td>
<td>Note: Over-temperature thermostat is standard on 90 Amp controls and over — Specify N.O or N.C. when ordering</td>
</tr>
<tr>
<td>0-10 VDC</td>
<td>C</td>
<td>D</td>
<td></td>
<td></td>
<td>WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.</td>
</tr>
<tr>
<td>Potentiometer</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td>View Product Inventory @ <a href="http://www.tempco.com">www.tempco.com</a></td>
</tr>
</tbody>
</table>

**Ordering Code:** SRTD - 1 2 3 4 5