Design Features
- Electrically Isolated Heat Sink
- Conservative Thermal Design
- Voltage Squared Linearity
- Transient Voltage Protection
- Multi-Turn Zero & Span Adjustments
- UL, cUL, CE Compliant
- Ideal for: Electric Ovens, Furnaces and Kilns, Environmental Chambers and Extruders

The “C” Series SCR Power Controllers are two-leg zero cross SCR power controllers that linearly control, proportional to the command signal, the power applied to a 3-phase electrical load. The controller consists of a master and slave assembly. Each assembly consists of a heat sink and an SCR module. The master assembly contains the control circuit card which controls the on-off cycles for both assemblies.

Command Signals: 4-20mA; 0-5 VDC; 0-10 VDC; potentiometer
Control Mode: Distributive Zero Cross
Load Current: 15, 25, 40 or 70 Amps
Line Voltage: 208, 240, 277, 480 or 575 VAC; 10% to 20% 50/60 Hz
Zero and Span: Factory pre-set. User adjustable over a range of 20% of span.
Control Range: 0 to 100% of line voltage
Linearity: Average load voltage is linear within 1% of the command signal.

“C” Series SCR Power Controllers are offered with the options listed in the worksheet below. Fill in the boxes with the appropriate number and/or letter designation for your requirements and a part number will be assigned.

Specifications
- Temperature
  - Operating: 32 to 122°F (0 to 50°C)
  - Storage: 14 to 158°F (-10 to 70°C)
- Cooling: Convection
- Mounting: Panel mount with heat sink fins vertical
- Dimensions
  - 15-40 Amp units—Overall: 9.61"W × 6.0"H × 3.1"D
    Mounting Centers: 4.35"W × 4.5"H (each heat sink)
  - 70 Amp units—Overall: 17.25"W × 10"H × 5"D
    Mounting Centers: 8.0"W × 8.75"H (each heat sink)
- Weight
  - 15-40 Amp units: 2.5 lbs
  - 70 Amp units: 5.7 lbs
- 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: SRTC

Control Input BOX 1
A: 4 to 20 mA
B: 0 to 5 VDC
C: 0 to 10 VDC
D: Potentiometer
Note: All control input types require additional 24 VAC power input, except 4-20mA.

Load Current BOX 2
xx: 15, 25, 40 or 70 Amps

Line Voltage BOX 3
1: 120 VAC
2: 240 VAC
3: 480 VAC
4: 575 VAC

Options (up to two) BOXES 4, 5
E: Over Temperature Thermostat – N.O. Contacts
F: Over Temperature Thermostat – N.C. Contacts
G: Load Unbalance Alarm
H: SCR Failure Alarm
N: None

Potentiometer Kit (ordered separately) 5KΩ potentiometer and knob
Part number: SRS99001

Multi-Tap Transformer Input: 120/240V, 400V, 480V or 575V
Output: 24V
Part number: SRS99002

Common Configurations — “C” Series
240 VAC; 3-phase; 2-leg; Zero cross firing; 4-20 mA input

<table>
<thead>
<tr>
<th>Load Current</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 Amp</td>
<td>SRT01101</td>
</tr>
<tr>
<td>25 Amp</td>
<td>SRT01102</td>
</tr>
<tr>
<td>40 Amp</td>
<td>SRT01103</td>
</tr>
<tr>
<td>70 Amp</td>
<td>SRT01104</td>
</tr>
</tbody>
</table>

WARNING: Cancer and Reproductive Harm • www.P65Warnings.ca.gov

(800) 323-6859 • Email: sales@tempco.com

Standard lead time is 2 to 3 weeks.