



Since 1972 Three Phase Son Power Controller "C" Series — Three Phase 15 through 70 Amp (2-Leg – Zero Cross)

Design Features

- * Electrically Isolated Heat Sink
- * Conservative Thermal Design
- * Voltage Squared Linearity
- * Transient Voltage Protection
- * Multi-Turn Zero & Span Adjustments

Control Mode: Distributive Zero Cross

20% of span.

Linearity: Average load voltage is linear within 1% of

"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.

Control Range: 0 to 100% of line voltage

the command signal.

Load Current: 15, 25, 40 or 70 Amps

- * 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

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

Transient Voltage and dv/dt: 500 volts/microsecond minimum.

Uses a dv/dt snubber and a metal oxide varistor (MOV).



Specifications

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

15-40 Amp units: 2.5 lbs

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)

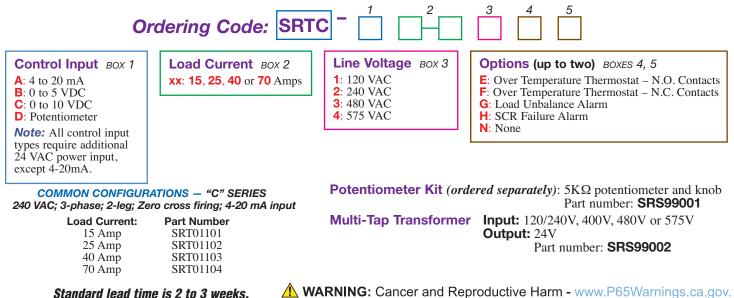
70 Amp units—Overall: 17.25"W × 10"H × 5"D Mounting Centers: 8.0"W × 8.75"H (each heat sink)

Weight

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.



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