

Solid State Contactors SCR Triac Zero Fired



Modulating the power nearest to the demand and reduces energy costs and power consumption. Keeping the temperature closer to the desired set point for best comfort.

Higher precision, superior than contactors.

Fast adjustment and installation.

Zero-crossing operation eliminates the thermal shocks overshoot and undershoot.

Cycle once per second, very fast and quiet.

No maintenance, due to less mechanical parts failure.

Life expectancy higher than 1 000 000 000 operations

Does not create RFI (radio frequency interference) and will not adversely affect sensitive electronic equipment.

Epoxy thermally protected, for humidity, protection, overheat or contaminated environment.

Accept input signal: 0-135 Ohms, 0-10 Volts, 4-20 mA, 0-5 Volts AC 120 Volts .

Security factory 2, I.E. 600 Volts surge protected and built for 1200 Volts.

2 year warranty.

Manufactures products up to 750 Amps at one or three phases

Our products are CSA and C US approved

HCS manufactures SCR energy controls such as the modulating Silicone Control Rectifier the Solid State Relay and the linear Phase Angled Fired controller.

We use either base SCR's or SSR that can be used with current limiting boards or voltage controlled boards.

SCR Power controllers are used for precise control of the output of electrical resistive charges electric such as duct heaters, process heaters, oven dryers, humidifiers, infrared equipment, etc.

HCS SCR controls are completely sealed and compact units. The HCS SCR controller and its wiring are cast into a small monolithic epoxy block that is dust-proof, humidity-proof, and much more resistant to vibration.

***60- Meg Dr Unit 13
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Phase Angle and Burst Fired SCR's



**2 year limited warranty 15 to 1000 Amps Output Current 48 to 600 volts
Single or Three Phase Zero Cross fired thermally and Surged Protected
Used in Controlling Process Heaters, Duct Heaters, Ovens, Dryers, Resistive
Loads Field Selectable Inputs 0 to 5 Volts DC, 0 to 10 Volts DC Pulsed
Voltage, 4-20mAmps**

SCR Power Controls are zero-cross fired or phase angled fired, and ideal for the control of pure resistive loads that can accommodate rapid, full power, ON-OFF cycling. Zero-crossed fired SCR's do not create RFI (radio frequency interference) and will not adversely affect sensitive electronic equipment, like logic controllers, computers, other SCR controllers) located in the same building or area.

SCR Power Controls are protected from line voltage transients, making them more reliable in a variety of applications. Aero-cross fired SCR's when coupled with PID or Time proportioning controllers operate in a series of full ON-OFF cycles known as time proportioning burst firing. The time proportional control accepts the control output signal and converts it into a time firing. The time proportional signal determining the amount of ON time and OFF time per duty cycle. The continuous, high repetitious rate of full ON and full OFF cycles produces a smooth power output to the load (heater) and stabilizes temperature.

SCR Power Controls differs from other switches in fast action. For example, while a contactor may cycle 2 times per minute, a SCR may cycle approximately once per second. The fast SCR cycle time results in a final temperature much closer to the desired set point and reduces energy costs. SCR Power Controls modulates small increments of power to the load, unlike traditional mechanical control, and eliminates the overshoot and undershoot associated with a load controlled by a contactor.

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