

4120 Series SCR Power Controllers

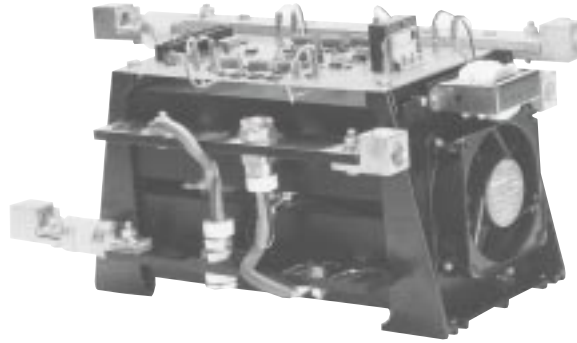
- Three Phase, Two-Leg
- Zero-Crossover Firing
- DV/DT Transient Protection
- Field Selectable Input Options

Specifications

Isolation	2000 Vac
Ambient Temperature	0° to 55°C (30° to 130°F)
Cycle Time	1 second nominal at 50% ON
Control Mode	Time proportional, zero-crossover firing, 2-leg, 3-phase
SCR PIV Rating ..	1200V
Indications	LED for each pair of SCR's indicates phase current switched through heater load. Insensitive to phase rotation.
Weight	21 - 25 pounds, depending on features
Dimensions	16.1L X 10.5W X 9.9H (inches)

Accessories

Description	Part Number
Fan Accessory Kit for SCR Power Controller	0135-11024
Lug Kit for 115/90A and 150/125A Models	0135-12015
Lug Kit for 200/155A and 275/215A Models	0135-12016
Fuse and Lug Kit for 115/90A and 150/125A Models	0135-12004
Fuse and Lug Kit for 200/155A and 275/215A Models	0135-12005



Description

The 4120 SCR Power Controller combines the highly reliable SCR power switching design with state-of-the-art packaging to provide a unique solution to electric heat control applications. The 4120 consists of a control card and SCR's mounted on four separate isolated heat sinks. Higher power modules are supplied with an integral cooling fan. Optional I²T fusing for SCR and diode overvoltage protection is available. The lugs for incoming line and load power leads can be mounted in a variety of configurations to meet space requirements.

Four field selectable and changeable input types are available on the 4120:

- 4 - 20mA Current into 250 ohms
- 0 - 5 Vdc Voltage into greater than 8k ohms
- 1 - 5 Vdc Voltage into greater than 8k ohms
- 1000 ohm, 1/2 watt Potentiometer (not supplied)

Terminals are also provided for connection of an external auto/manual switch with the manual 1000 ohm potentiometer input.

Ordering Information

Complete the Model Number using the Matrix provided.

Model	SCR Power Controller					
4120	Three Phase, Two-Leg, Zero-Crossover fired open style with Time Proportional output. Field Selectable inputs of 4 - 20mAdc, 1 - 5 Vdc, 0 - 5 VDC and 1000 ohm Potentiometer. (All units shipped for 4 - 20mAdc input.)					
	Code	Voltage	Current		Power	Fan
			25°C	50°C	50°C	
	22	240 Vac	115A	90A	37kW	No
	24	240 Vac	150A	125A	52kW	Yes
	26	240 Vac	200A	155A	64kW	No
	28	240 Vac	275A	215A	89kW	Yes
	32	480 Vac	115A	90A	75kW	No
	34	480 Vac	150A	125A	104kW	Yes
	36	480 Vac	200A	155A	129kW	No
	38	480 Vac	275A	215A	179kW	Yes
	Code	Fuse and Lug Configurations				
	0	Basic Power Controller only. No Connector Lugs or Fusing provided.				
	2	I ² T Fusing, Lugs and Lug Mounting Hardware for Codes 22, 24, 32, 34				
	4	I ² T Fusing, Lugs and Lug Mounting Hardware for Codes 26, 28, 36 or 38.				
	Code	Not Used				
	00	Insert "00" to complete Model Number				
4120 -	32	2	00	Typical Model Number		