

4115

Solid State Power Controller

- Zero-Crossover Fired
- 0-55 Amp Loads
- 120-600 Vac
- Dual SCR Design
- Solid State Power Control, No Contacts to Pit or Wear
- dV/dT Voltage Transient Protection



Description

The Chromalox 4115 Power Controller is a single-pole, normally open switching device that accepts any 3-32 Vdc control input signal and provides ON/OFF zero-crossover switching of loads. The inverse-parallel SCR output devices and built-in snubber of the 4115 provide highly reliable, noise-immune drive circuitry for longer life and higher load capacity than triacs. Control input can be provided by Chromalox controller models

2104, 1600 Series, 3910, 3390, or any other control device providing a 3-32 Vdc control output signal. One controller can drive several 4115's with their inputs connected in parallel or series.

Single phase heater loads may be driven with one 4115. Delta-connected and ungrounded Wye-connected three phase heater loads require a minimum of two 4115's. Three 4115's are required for grounded Wye, three-phase heater loads.

Ordering Information

Complete the Model Number using the Matrix provided.

*Maximum current ratings specified are maximum values with forced air cooling and must be reduced by applying the temperature derating curves. Request PDS 4115.

**Current rating with a heatsink, in 40°C ambient, in still air.

In Stock:

Model	PCN
4115-20400	313488
4115-20401	313496
4115-20750	313509
4115-20751	313517
4115-40400	313525
4115-40401	313533
4115-40900	313541
4115-40901	313550
4115-60400	318959
4115-60401	309796
4115-60900	318967
4115-60901	309809
4115-61250	318975
4115-61251	309817

Model	Solid State Power Controller				
4115	Single Phase, ON/OFF Output, Zero Crossover Fired, 3-32 Vdc Control Signal Input				
Code	Voltage	Max. Rated Current*	Rated Current @ 40°C (Amps) With Heatsink**		PIV
2025	120-240 Vac	25	15	800	
2040	120-240 Vac	50	42	800	
2075	120-240 Vac	90	50	800	
4040	240-480 Vac	50	42	1200	
4090	240-480 Vac	90	50	1200	
6040	480-600 Vac	50	42	1200	
6090	480-600 Vac	90	50	1200	
6125	120-600 Vac	125	55	1200	
Code	Configuration	Dimensions HxWxD			
0	No Heatsink	1.1D" x 1.75W" x 2.25H"			
1	With Heatsink	2.62D" x 4.75W" x 5.0H" (40A and larger) 3.50D" x 2.13W" x 2.56H" (25A)			
4115 - 4090	1	Typical Model Number			

Accessories

Part No.	Description	PCN
0024-03015	Sub-Cycle Fuse (500V, 40A)	313584
0024-03016	Sub-Cycle Fuse (500V, 60A)	313592
0024-03080	Sub-Cycle Fuse (500V, 125A)	-
0024-12006	Fuse Block for up to 125A	313699
0135-20051	Vari-Watt Power Controller	313568
0135-27000	10K NEMA 4X Potentiometer Kit (for Vari-Watt)	313947
0005-12017	Isolation Transformer (for Vari-Watt)	313955
0135-20106	PSR-1 Firing Module (4-20 mA input module)	307459
0135-20107	PSR-2 Firing Module (3-phase, 4-20 mA module)	307467