

7100A

Single Phase SCR Power Controller



The Model 7100A is a new range of economic SCR Power Controllers for use with resistive, infrared or inductive loads. This unit features integral heatsinks with analog voltage or current inputs for precise control. Options include Gross Fault (GRF) Detection, Diagnostic Load Failure (DLF) Detection, Current Limit and digital communications. GRF indicates when a shorted device or an open load is detected. Similar to GRF, DLF detects a shorted device, an open load or a partial load failure. Current limit is available for use with variable resistance loads and digital communications is available for remote control or monitoring of the process.

Rating (A)	Height (mm)	Width (mm)			Depth (mm)			Max. weight (kg)
		Basic or A options	B options or A+B	C options or A+C	Basic or A options	B options or A+B	C options or A+C	
16 to 40	156	52.5	52.5	70	193	218	238	0.8
63	156	70	70	70	213	238	238	1.9
80 to 100	226	96	96	96	215	243	243	2.2

Features

- 16-100 amps, 120-690Vac
- zero cross or phase angle firing
- optional control modes
- optional current limit
- optional Modbus® comms

Specifications

Line Voltage:

100V - 690V (+10%, -15%), 47 - 63 Hz)

Load:

Resistive, short wave infrared, inductive/trans former coupled

Firing mode:

Fast Cycle, Single Cycle, Advanced Single Cycle or Phase Angle

Inputs:

DC current: 0-20mA or 4-20mA

DC voltage: 0-5V or 0-10V

Potentiometer: 10kΩ external, customer supplied

Communications:

Modbus®, 9600 or 19200 baud

Ambient temperature:

0 to 45°C

Options:

GRF: Gross Fault, detects shorted device and open load

DLF: Diagnostic Load Failure, detects shorted device, open load and partial load failure

V2I2: Current limit

V1I2: V2 control and current limit

V2CL: VxI control and current limit

V1CL: VxI control and current limit

Mounting:

Panel or symmetrical DIN Rail

Dimensions (see coding):

A options: V2, OL, XFMR

B options: DLF, GRF, I2, V2II, V2CL

C options: ICO, V1CL, V1I2, DLF/GRF + I2, DLF/GRF +V2I2, DLF/GRF +V2CL

Ordering code Phased introduction, consult Eurotherm for availability

7100A	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	

1 Current	2 Voltage	3 Power Supply	5 Fuse	7 Internal EMC filter	9 Manual Language																																																																																
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Options for Phase Angle Firing

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Options for Burst/Single-Cycle Firing

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Communications and Certification

17/18 Comms Options					
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External fuses and holders may be ordered separately, see pages 3-47 to 3-49.