

TE10A

Single Phase SCR Power Controller



Features

- robust mechanical design
- 16–50A, 120–500Vac max.
- 1 \emptyset zero crossing fired or phase angle fired
- LED status indicator
- optional current limit

The TE10A is a high precision, rugged and reliable heavy-duty DIN rail mountable SCR power controller that is designed for general purpose single phase heating applications where resistive, inductive, temperature dependent or infrared loads are involved. In addition to standard burst, single cycle and phase angle firing, it is available with an advanced single cycle mode for short wave infrared loads. The TE10A accepts DC inputs or can be driven locally from a potentiometer. It features automatic supply voltage compensation and optional current limit.

Specifications

Dimensions:

16A: 115H x 53W (53W) x 93D mm, 550g

25A: 115H x 70W (70W) x 93D mm, 700g

50A: 115H x 123W (123W) x 93D mm, 1200g

Load type:

resistive, variable resistance, short wave IR or inductive

Firing mode:

fast cycle, single cycle, advanced single cycle and phase angle

Operating temperature:

0 to 45°C (60°C with derating)

Inputs:

DC current: 4-20mA, input impedance 250k Ω

DC voltage: 0-5V or 0-10V, input impedance 100k Ω

Potentiometer:

10k Ω (customer supplied)

Options:

Current limit (phase angle only) and auxiliary power supply

Ordering codes

TE10A	1	2	3	4	5	6
	7	8	9			

1 Current

Current

16A 16 amps
25A 25 amps
50A 50 amps

2 Voltage

100V	100 volts	380V	380 volts
115V	115 volts	400V	400 volts
200V	200 volts	415V	415 volts
230V	230 volts	440V	440 volts
240V	240 volts	480V	480 volts
277V	277 volts	500V	500 volts

3 Input

0V5 0-5V
0V10 0-10V
4mA20 4-20mA

For non-standard voltages specify the next highest from voltage table and choose auxiliary supply option.

4 Firing Mode

PA Phase angle
FC Fast cycle
FC1 Single cycle
SCA Advanced single cycle

5 Language

ENG English
FRA French
GER German
SWE Swedish
ITA Italian

6 Options

115 Auxiliary 115V*
230 Auxiliary 230V*

* Auxiliary supply option required only for voltages not shown in voltage selection box.

7 CL Option

- None
CL Current limit (PA only)

8 Fuse

FUSE Fuse without microswitch
MSFU Fuse with microswitch
NONE No fuse

9 Label

- Eurotherm
99/AX144 Barber-Colman

Replacement fuses ordered separately. See page 3-47.

External fuses and holders may be ordered separately, see pages 3-47 to 3-49.