

# TE300

## Three Phase SCR Power Controller



### Features

- 16–63 amps, 500Vac max.
- 3 $\phi$ , three, four and six-wire loads (three leg switching)
- advanced firing modes
- LED status indicator

### Specifications

#### Dimensions:

16, 25, 40A: 215H x 155W x 186D mm, 3.1kg  
 50-63A: 235H x 155W x 186D mm, 3.5kg

#### Load type:

Resistive or short wave infrared

#### Inputs:

*Logic (LGC):* 5V or 10V, 20mA; ON  $\geq 50\%$  OFF  $\leq 25\%$  of the nominal level

*DC Current:* (4mA20) 4 to 20mA, input impedance 250 $\Omega$

*DC Voltage:* (0V5 or 0V10) 0 to 5V or 0 to 10V, input impedance 100k $\Omega$

#### Potentiometer:

10k $\Omega$  (customer supplied)

#### Firing mode:

Logic, Single Cycle, Fast Cycle, Slow Cycle and Advanced Single Cycle (4 or 6 wire load configuration)

#### Operating temperature:

0 to 45°C without derating

#### Mounting:

Symmetrical DIN rail or bulkhead

#### Auxiliary Power:

115Vac or 230Vac

#### Cooling:

16A, 25A, 40A: convection  
 50A, 63A: forced air

The TE300 is a burst-fired SCR Power Controller with analog input designed for general purpose three phase applications for resistive loads. Switching all three legs, the TE300 can be used for three-wire loads (closed delta, wye without neutral), four wire loads (wye with neutral) and six wire loads (inside delta). The TE300 equipped with advanced single cycle firing is ideal for infrared loads. It is also ideal for paint drying, environmental control, metallurgy and plastics.

### Ordering codes

TE300	1	2	3	4	5	6	7
8	9	10	00				

*Fuses not recommended for short wave infrared heaters. External fuses and holders may be ordered separately, see pages 3-47 to 3-49.*

<b>1 Current</b> <b>Rating</b> 16A 16 amps 25A 25 amps 40A 40 amps 50A 50 amps* 63A 63 amps* * Fan cooled (13VA)	<b>3 Fan Supply</b> 000 NONE (below 50A) 115V 115 volts 230V 230 volts	<b>6 Load Config.</b> 3D Delta (3 wire) 6D Open delta (6 wire) 3S Star (3 wire) 4S Star (4 wire)	<b>8 Manual</b> ENG English FRA French GER German ITA Italian
<b>2 Line to Line Voltage</b> 230V 230 volts 240V 240 volts 277V 277 volts 380V 380 volts 400V 400 volts 415V 415 volts 440V 440 volts 480V 480 volts 500V 500 volts	<b>4 Input</b> 0V5 0 to 5 volts 0V10 0 to 10 volts 4mA20 4 to 20mA	<b>7 Mounting</b> BKD Bulkhead DIN DIN rail	<b>9 Option</b> 115V Auxiliary 115V † 230V Auxiliary 230V †
	<b>5 Firing Mode</b> LGC Logic FC1 Single cycle FC8 Burst 8 cycles C16 Burst 16 cycles 128 Burst128 cycles SCA Advanced single cycle (4 or 6 wire)	<b>10 Fuse</b> FUSE 3 fuses + holders MSFUSE 3 Microswitch fuses + holder NOFUSE No fuses or holders	

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

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