



# in function of temperature STL..TE

## Description:

These automatic speed controllers control the rotational speed of single phase (230 Vac / 50-60 Hz) voltage controllable motors according to temperature.

The -TE controllers can be used in ventilation applications as well as in heating applications. (See operation) There is an illuminated ON/OFF switch, a potentiometer to set the desired environmental temperature, and a potentiometer to set the minimum speed. With the last, hand control is also possible. The temperature range is from 5 to 35°C (Standard). The minimum speed is adjustable from X to 100%, where X is set internally with a trimmer. The temperature sensor TES-55-150R is included.

The proportional range, this is the adjustment of the speed according to temperature changes, is set internally with a trimmer between 3 and 12°C. When the current range is insufficient (connection of several motors), the power module ERV10 can be used as a slave controller.

The IP 54 case allows the use in most demanding environments.

## Features:

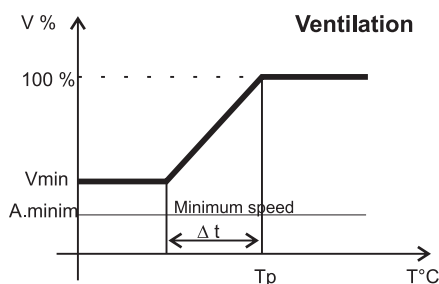
- ✓ Supply: 230 Vac 50/60 Hz
- ✓ Infinitely variable control
- ✓ Mode - VENTILATION: Automatic in function of temperature; speed decreases when temperature drops
- ✓ Mode - HEATING: Automatic in function of temperature; speed raises when temperature drops
- ✓ Minimum speed setting
- ✓ Plastic enclosure, ABS V0, RAL 9002, IP54
- ✓ Max ambient temperature: 35 °C
- ✓ CE-Certificate: The EMC directives: 89/336/CEE with modification 92/31/CEE.  
The low voltage directive: 73/23/CEE



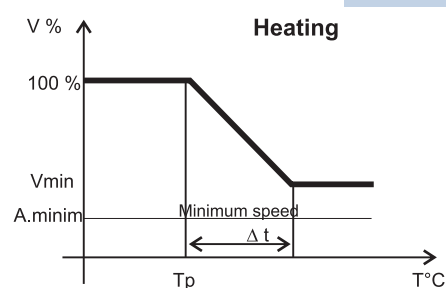
	STL1TE	STL3TE	STL5TE	STL10TE
<b>Current rating (A)</b>	0,1 - 1,5 A	0,3 - 3,0 A	0,5 - 5,0 A	1,0 - 10,0 A
<b>Fuse(A) 5*20(mm)</b>	F 3 A-H	F 5 A-H	F 8 A-H	F14 A (6*32)

The temperature probe TES-55-150R is always included and is calibrated to the controller.

## Operation: (mode selectable with a miniature switch on the circuit board)



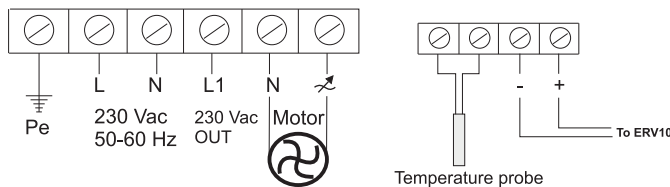
$T_p$  : Preset temperature  
 $\Delta t$  : Proportional margin



When the taken temperature equals or is higher than the SET temperature ( $T_p$ ), the motor speed will be maximal. When the taken temperature descends, the motor speed will go down till the selected minimum speed ( $V_{min}$ ) and in relation with the proportional range ( $\Delta t$ ).

When the taken temperature equals or is lower than the SET temperature ( $T_p$ ), the motor speed will be maximal. When the taken temperature rises, the motor speed will go down till the selected minimum speed ( $V_{min}$ ) and in relation with the proportional range ( $\Delta t$ ).

## Wiring diagram:



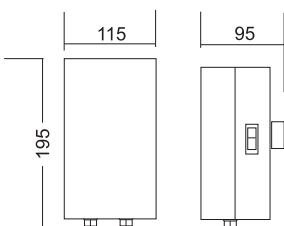
**L1:** Output 230 V, unregulated.

**Temperature probe:** The wire of the temperature probe may be lengthened up to 30 m. The probe has no polarity. Use screened cables.

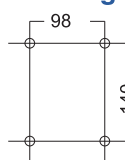
### ERV10

When several motors have to be connected and the current range is exceeded, a few motors can be connected to a ERV. See ERV series. These controllers operate as slave controllers and automatically follow the STL..TE.

## Dimensions:



### Fixing:



	weight
STL1TE	730 gr
STL3TE	760 gr
STL5TE	790 gr
STL10TE	850 gr

## Operating position:

