

## 2-step control thermostat 25...85 / 35...95 °C; 1.7 m

for panel mounting



**TR 848 04**

### Application

For heat generators with temperatures up to 95 °C.

### Features

Electro-mechanical control thermostat (TR), approved to DIN 3440 and EN 60730-1/-2/-9, for the control of heat generators, manually adjustable with knob.

- Double-pole micro switch with changeover switch
- Sensing system with fast response sensing element
- Time factor of the sensing element complying with DIN EN 14597
- Operation type 2 B (DIN EN 14597)
- Environmental condition of pollution: normal

### Order-no.

005-1313 (only thermostat)

### Technical data

The following indications are valid for the standard type 55.34215.110. Due to the function, other types might show different data.

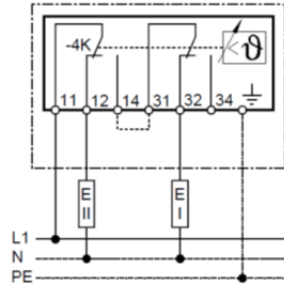
Switch data	Service life at nominal load	100'000 operations
	• Nominal voltage range	AC 40...400 V
	• Nominal current range I (I <sub>M</sub> )	NC: 0.5...16(2.6) A NO: 0.5...4(0.6) A
	Protection class	I acc. EN 60 730-1
	Protection class of housing	IP00 acc. EN 60 529
Application range	Range	25...85 / 35...95 °C
	Ambient temperature at switching head	max. 100 °C (T100)
	Thermal differential	4.0 K ±2.0 K
	Max. sensing element temperature	140 °C
	Storage and transportation temperature	-30...+100 °C
	Minimal capillary bending radius	R <sub>min</sub> = 5 mm
	Correction factor	c = 0.44 [K/K] referred to ambient temp.
Calibration	Calibration tolerance	±5 K
	Calibrated for ambient temperature at switching head and capillary	23 ±2 °C (Tu23 acc. DIN EN 60068-1)
	Time factor in water / in oil	<45 s / <60 s
Specification	Switch system support (basic insulation)	Ceramic
	Capillary tube	Stainless steel
	Sensing element	Copper
	Diaphragm	Stainless steel
	Capillary tube length L	1780 mm
	Electrical connection	Faston A6.3-0.8-MS acc. DIN 46 244
	Earth terminal connection	Faston A6.3-0.8-MS acc. DIN 46 244
	Weight	175 gr.

## Fitting notes

The immersion tube material depends on the installation (medium, tank material, etc.) and **must be specified by the user**.

To comply with the time factor requirements according to DIN 3440 the immersion tubes must conform to drawing H 1 7111 3459 (see also data sheet "Immersion tubes 1130")

## Wiring diagram



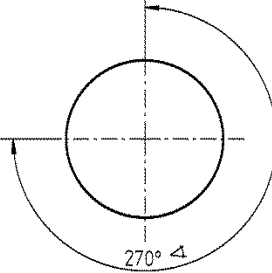
Standard range  
Control thermostat (TR)  
2x changeover switch

## Temperature values

Temperaturwerte/  
Temperature values

Anschlag rechts  
Limitation on  
the right side  
B11 85°C ±3K  
B31 95°C ±3K

Anschlag links  
Limitation on  
the left side  
B11 25°C ±5K  
B31 35°C ±5K



## Dimension drawing

