

Electric heating controller



The controller TTC2000 is designed for wall-mounting and can be used with internal or external setpoint. Automatic adaptation of control function, P or PI control. The controller can also be set to be controlled by an external 0...10 V DC signal. To control extra load the slave board TT-S1 can be easily mounted into the unit.

- 3-phase
- Wall-mounting

Technical data	
Supply voltage	3-phase, 210...255 / 380...415 V AC, automatic adaptation
Setpoint	0...30°C, the sensor determines the scale range
Max load	Max 25 A, min 3 A/ phase
Sensor inputs	Two (2), main- and min/max-limit sensors (Regin NTC-sensor)
Control signal	0...10 V DC (external signal)
Mounting	Wall-mounting
Protection class	IP30

Description	Type	Notes
Controller for electric heating	TTC2000	

Slave board



The slave board TT-S1 is intended to be used together with the electric heating controller TTC2000 in order to control extra loads.

Description	Type	Notes
Slave board for control of extra load (+17 kW)	TT-S1	

Scales and knobs for Pulser and TTC

Alternative setpoint scales, when using sensors with other temperature ranges.

Scales for TTC25/40 and Pulser/D	Temperature range	Type	Notes
Temperature range	20...50°C	3933	
Temperature range	40...70°C	3934	
Temperature range	60...90°C	3935	
Knobs for TTC2000			
Temperature range	20...50°C	3608	
Temperature range	40...70°C	3609	
Temperature range	60...90°C	3610	
Knobs for Pulser			
Temperature range	0...30°C	2271	
Temperature range	20...50°C	1588	
Temperature range	40...70°C	1589	
Temperature range	60...90°C	1590	

Electric heating controller



TTC25

These TTC-electric heating controllers are intended for control of electric heating batteries or radiators. The controller pulses the entire power output ON/OFF and utilises time-proportional triac control. The controller is intended for DIN-rail mounting. Automatic adaptation of control function, P or PI control. It can also be set to be controlled by an external 0...10 V DC signal.

- 3-phase
- DIN-rail



TTC40F



TTC63F



TTC80F

Technical data	
Supply voltage	
TTC25...40	3-phase, 210...255 / 380...415 V AC, automatic adaptation
TTC63...80	3-phase, 400 V AC
Output	
TTC25...	25 A, 400 V AC, 17 kW (230 V, 10 kW)
TTC40...	40 A, 400 V AC, 27 kW (230 V, 16 kW)
TTC63F	63 A, 400 V AC, 43 kW
TTC80F	80 A, 400 V AC, 55 kW
Setpoint	0...30°C (sensor determines the scale range) N.B : Not on TTC...X models°
Sensor inputs	Two (2), main- and max, min limit sensors (Regin NTC-sensor) N.B : Not on TTC...X models
Control signal	0...10 V DC
Mounting	DIN-rail
TTC25...	195x100x95, 11.2 modules
TTC40...	195x220x95, 11.2 modules
TTC63F	195x220x105, 11.2 modules
TTC80F	195x220x105, 11.2 modules
Protection class	IP20

Description	Load	Type	Notes
TTC-electric heating controllers with temperature controller, also for 0...10 V DC control signal	25 A	TTC25	
TTC-electric heating controllers for external control signal 0...10 V DC only	25 A	TTC25X	
TTC-electric heating controllers with temperature controller, also for 0...10 V DC control signal	40 A	TTC40F	
TTC-electric heating controllers for external control signal 0...10 V DC only	40 A	TTC40FX	
TTC-electric heating controllers with temperature controller, also for 0...10 V DC control signal	63 A	TTC63F	
TTC-electric heating controllers with temperature controller, also for 0...10 V DC control signal	80 A	TTC80F	



To control larger electrical loads see step controllers TT-S4/D and TT-S6/D