



## Triac controllers type TTC 40F

Triac controller for DIN-rail mounting with setpoint adjustment for controlling 3-phase electric heating batteries, it is necessary to connect an external sensor to the controller. This can be and NTC sensor as well as 0-10V.

### Application

- Electric heating batteries

### Specifications

- Possible to connect 230 V or 400 V 3-phase electric heaters
- Maximal load : 15,8 kW (230V) or 27 kW (400V)
- Room temperature control : for slow temperature changes, works as P-controller (P = 2K)
- Supply air temperature control : for rapid temperature changes, works as PI-controller (P = 20K, reset time = 6 min)
- Settable cycle time : 6 to 60 s
- Min/max limit possible : 0 to 60°C

### Mounting

- DIN-rail

### Accessoires

- Duct temperature sensors, type **TG-K330**
- Room temperature sensors, type **TG-R530**
- Min/max temperature sensors, type **TG-K360**
- Room temperature sensors for external setpoint, type **TG-R430**

### Technical data

- Supply voltage: 230V AC or 400V AC, 3-phase. Automatic adaptation
- Current: minimum 3 A - maximum 40 A
- IP 20
- Proportional band: 2K fixed (room control) / 20K fixed (supply air temperature control)
- Reset time: 6 minutes, fixed (supply air temperature control)
- Pulse period: 6 to 60 s
- LED indication on the controller when the output is active
- Two inputs for NTC sensors, one main sensor and one min/max limit

- One input for an external 0-10V
- Setpoint: selectable, either internal or external

**Function**

- The controller pulses the entire power output ON/OFF. The controller utilises time-proportional control, the ratio between On-time and Off-time is varied to fit the prevailing heating requirement (example ON = 30s and OFF = 30s gives 50 % output power).

**Settings**

- Setpoint range : 0 to 30°C, the choice of sensor determines the controller setpoint range
- Minimum limit : 0 to 30°C
- Maximum limit : 20 to 60°C
- Cycle time : 6 to 60 s

**Dimensions**

- (W x H x D) : 192 x 222 x 95 mm