

Features

- Up to 18 kW (380 V AC) electrical heater control
- Max. Current 27 A
- 380 VAC supply
- 0-10 V input signal
- 2 electrical heater safety contacts
- High current resistant screw terminal block
- Surface montage



Usage

HT5xx series is used as electrical heater controller in HVAC applications in building automation.

Notes on Usage

Please read the manual carefully. HT518 has been designed and manufactured in accordance with the latest technological developments and safety rules. Safety warnings must be observed to prevent injury and property damage.

Safety Advices-Caution

The installation, maintenance and repair of the device should be done by authorized personnel. The power of the device is provided from R and S phases.



About Product

| Product Code | Definition | Power | Communication |
|--------------|---|---------|---------------|
| HT518.50.HS2 | 1 Analog 0-10V (Active) Input 1 Three-phase (R-S-T) Output (Heater) 2 Safety Contacts | 0-18 kW | -- |

Technical Features

| | |
|-----------------------|--|
| Operating Voltage | 380 VAC \pm %10, 50/60Hz |
| Pulse Period | 60 sec |
| Operating Temperature | 0-40 °C |
| Storage Temperature | -20+70°C |
| Operating Humidity | Max. %90 rh, Non-condensing |
| Cable Connections | Screw Type PCB Terminal Blocks |
| Input Signal | 0-10V |
| Flow | Resistive Load, Max. Current 27 A |
| Load Type | Up to 18 kW (380 V AC) electrical heater control |
| Inputs | 2 pcs Safety Contacts 1 pcs 0 - 10V Active Analog Input |
| Outputs | 1 Three-phase (Heater) |
| Dimensions | 147,5 x 118 x 105 mm (W x H x L) |

Mounting Location

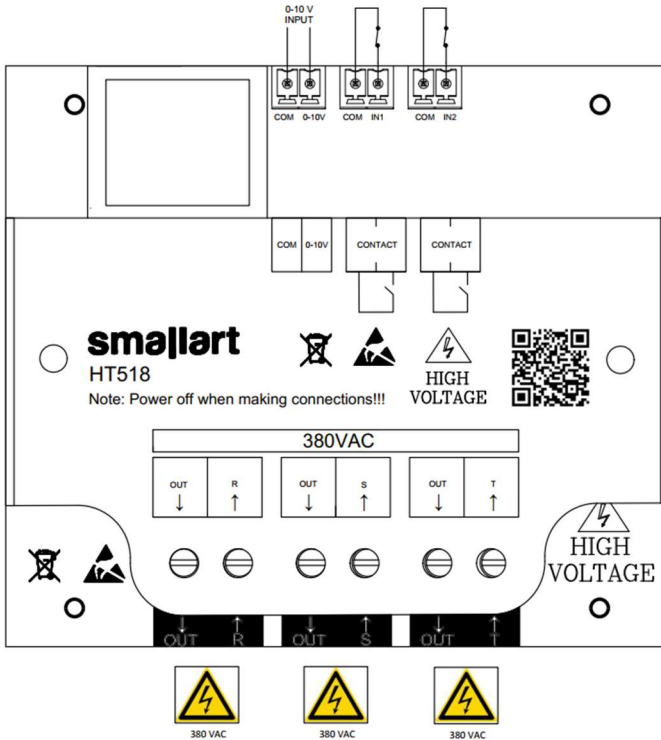
The device is suitable for surface mounting due to its structure. During surface mounting, it is recommended to leave enough space so that the terminals of the device can be wired.

Mounting Instructions

Please follow the instructions below during mounting.

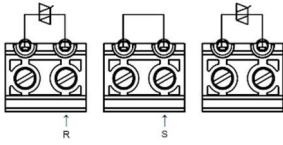
1. **Step:** Make sure the device is powered down.
2. **Step:** Make the required connections according to the equipment that will be used according to the connection diagrams given below.
3. **Step:** Make sure that the connections and other settings are made correctly.
4. **Step:** Power up the device.

Connection Diagram



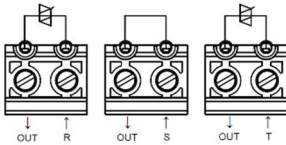
HT518 Connection Diagram

Device Power Connections



The device is powered from R and S phases.

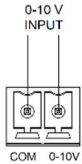
Heater Outputs



The input voltage will be switched by the triacs. To switch a three-phase voltage; Make the connections to the R, S and T terminals. Use OUT terminals for load connections.

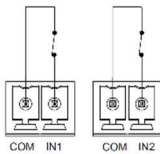
Note: When controlling Y-connected loads, the load must be symmetric and the signal neutral must not be connected!

0-10 V Input Signal



Connect the 0-10 V input signal connection cables, as shown in figure at left, 0-10V and the COM terminal as in the figure. Considering the current value, a maximum 0.75mm² cable should be used.

System Contact



Connect the two cables of the relevant contact (thermal, DPS, On-Off, etc.) as shown in the left figure. Considering the current value, a maximum 0.75mm² cable should be used. If the safety contacts are in open-circuit position, the triac outputs will not be active.

Dimensions(mm)

