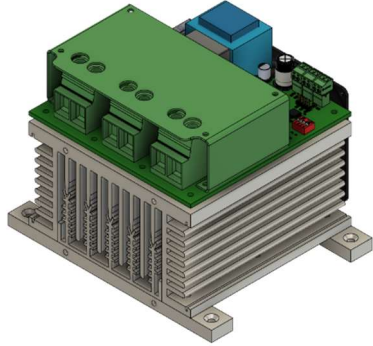


Features

- Up to 40 kW (380 V AC) electrical heater control
- Max. Current 60 A
- 0-10 V input signal
- 2 electrical heater safety contacts
- High current resistant screw terminal block
- Surface montage
- Alarm/Status output
- Drive overheat protection
- Fan cooled cooler



Usage

HT7xx series is used as electrical heater controller in HVAC applications in building automation.

Notes on Usage

Please read the manual carefully. HT740 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 Advice-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
HT740	1 Analogue 0-10V (Active) Input 1 Tree-phase (R-S-T) Output (Heater) 2 Safety Contact 1 Alarm Output	5-40 KW	-

Technical Features

Operating Voltage	380 VAC ± %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	Socket-screw Terminal Block
Input Signal	0-10V
Current	Resistive Load, Max. 60 A
Output Load	Up to 40 KW (380 V AC) electrical heater control
Inputs	2 pcs Safety Contacts 1 pcs 0 - 10V Active Analog Input
Outputs	1 Tree-phase (Heater) 1 Relay (Alarm/Status)
Dimensions	190 x 144 x 177 mm (G x Y x D)

Mounting Location

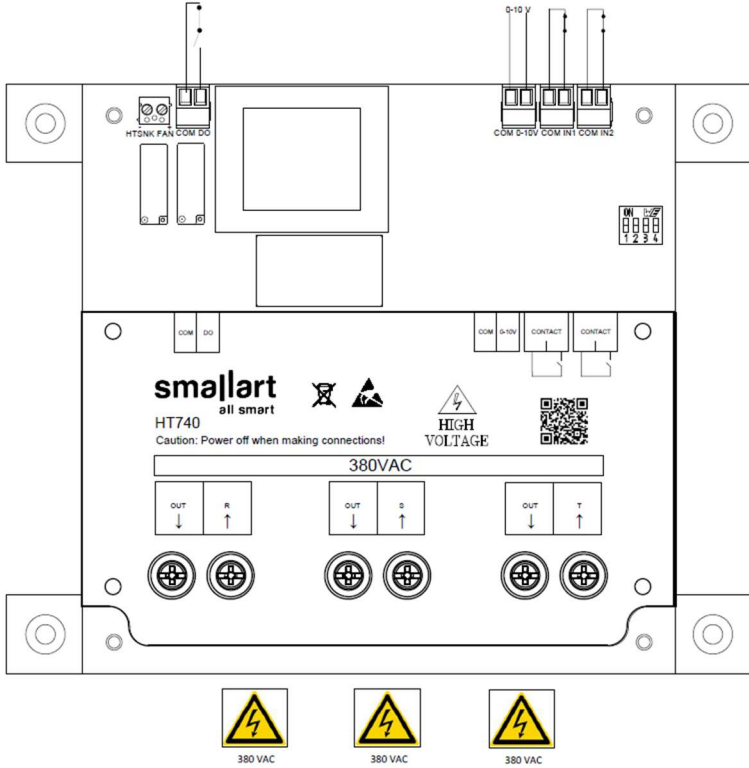
The device is suitable for surface mounting due to its structure. During surface mounting, it is recommended to leave enough space so that the terminals of the device can be wired.

Mounting Instructions

Please follow the instructions below during mounting.

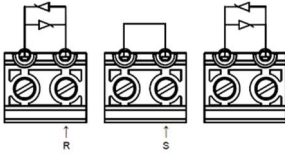
1. **Step:** Make sure the device is powered down.
2. **Step:** Make the required connections according to the equipment that will be used according to the connection diagrams given below.
3. **Step:** Make sure that the connections and other settings are made correctly.
4. **Step:** Power up the device.

Connection Diagram



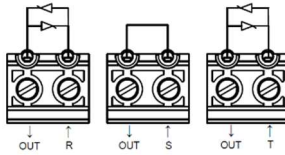
HT740 Connection Diagram

Device Power Connections



The device is powered from R and S phases.

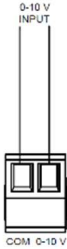
Heater Outputs



The input voltage will be switched by the thyristors. To switch a three-phase voltage; Make the connections of 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



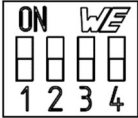
Connect the 0-10 V input signal connection cables, as shown in figure at left, 0-10V and the COM terminal as in the figure. Considering the current value, a maximum 0.75mm² cable should be used.

Relay Output States

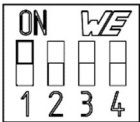
Relay Output is used as both status and alarm relay.

Alarm: The device gives a warning.

Status: It indicates whether the device is working or not.

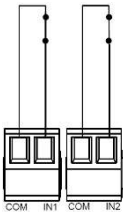


Relay is used to give “Alarm” warning when Dipswitch number 1 is OFF. Alarm output will be active in case of System Contact and/or control card protection alarm.



Relay is used to indicate “Status” when Dipswitch number 1 is ON. When the control card is active and the heater gives output, the Relay Status output will be active.

System Contact



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

Dimensions (mm)

