

- Controller of electrical heating
- Controlled load 15kW / Extra load 12kW / Max. load 27kW



Controller of electrical heating type HCS 15.1

Proportional controller of electrical heating with automatic adaptation of voltage. **HCS 15.1** controls the heating intensity by switching electrical power on or off. The ratio between the off-time and on-time depends on the need for heating and can vary in the range between 0% and 100%.

Application

- Electric heating batteries
- Control of 3 phase heaters only

Specifications

- Has zero phase-angle detection for preventing RFI (radio frequency interference)
- Automatically adjusts it's control mode to suit the controlled object's dynamics
- For rapid temperature changes i.e. supply air control **HCS 15.1** will act as a PID controller (Proportional Integral Derivative controller)
- For slow temperature changes i.e. room control **HCS 15.1** will act as a PID controller (Proportional Integral Derivative controller)
- Night temperature set-back : potential-free closure will give a night set-back of 1 - 10°C. Settable with a potentiometer (contacts 10, 11) which is in the **HCS 15.1**.

Mounting

- Wall

Accessoires

- External temperature duct sensor, **type DTS-100**
- Room temperature sensor, **type TR-5-K**

Technical data

- Supply : 3x230V / 3x400V AC, 50-60Hz
- Fuse : 2 x 0.315A
- Controlled load : 15kW
- Extra controlled load (extra load should be connected via circuit closer to the relay output) : 12kW
- Total controlled load : 27kW
- Max. controlled current : 25 A
- Protection class : IP20
- Ambient temperature without condensation : 0...40°C

- Ambient humidity : max. 90% RH
- Heat dissipation : 50W

Function

HCS 15.1 can control 15kW heater and has relay output for extra load control with circuit closer, on which can be connected load up to 12kW. **Full load on HCS 15.1 can be 27kW.**

If larger loads are required, there is other version of controller, type **HCS 15.1P**, which is a proportional controller for multistep application (up to 5 steps) electric heaters with automatic voltage adaptation. **HCS 15.1P** can control with triac output 15kW heater and has four relay outputs for 4 extra load steps control with circuit closers, on which can be connected load up to 225kW. **Full load on HCS 15.1P can be 240kW.**

Dimensions

- W x H x L : 105 x 260 x 120mm