

- Controller of electrical heating
- Controlled load 30kW / Extra load 12kW / Max. load 42kW



Controller of electrical heating type HCS 30

Proportional controller of electrical heating with automatic adaptation of voltage. **HCS 30** 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 30** will act as a PI controller (Proportional Integral controller)
- For slow temperature changes i.e. room control **HCS 30** will act as a P controller (Proportional controller)
- Night temperature set-back : potential-free closure will give a night set-back of 1 - 10°C. Settable with a potentiometer (contacts Timer-GND) which is in the **HCS 30**

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 : 30kW
- Extra controlled load (extra load should be connected via circuit closer to the relay output) : 12kW
- Total controlled load : 42kW
- Max. controlled current : 45A
- Protection class : IP20

- Ambient temperature without condensation : 0...40°C
- Ambient humidity : max. 90% RH
- Heat dissipation : 120W

Function

HCS 30 can control 30kW 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 30 can be 42kW.**

If larger loads are required, there is other version of controller, type **HCS 30P**, which is a proportional controller for multistep application (up to 5 steps) electric heaters with automatic voltage adaptation. **HCS 30P** can control with triac output 30kW 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 30P can be 255kW.**

Dimensions

- W x H x L : 240 x 260 x 175mm