

3 Phase electric heating controller

EH3C proportional electric heating controllers are designed to regulate the air temperature in three phase (400 V) heating systems by providing a continuously adjustable control of the load. The controller regulates the ratio between on-time and off-time to generate the required heating power.



• An optional PT500 sensor is required (e.g. FLTSN-P500-010 or ROTSN-P500).

• Thermal protection with auto reset and shutdown in case of overheating

- LED indication for output and power
- Can also be controlled via an analogue signal generated by another temperature controller or by a BMS system
- Front panel knobs for temperature setpoint selection (5-30 °C) day and night
- Analogue output (0-10 V or 0-20 mA) available for slave functionality with multiple EH3C devices or an EVS(S) electronic fan speed controller
- Robust metal enclosure

Area of use

• For wall and DIN-rail mounting

• Systems where air temperature needs to be maintained

	Technical specifications	
Supply voltage	EH3C4-15	380-440 VAC
Analog output		0-10 VDC / 0-20 mA
Analog input		0-10 VDC / 0-20 mA
Min. load		2 A
Max. load		22 A
Protection standard		IP20
Ambient conditions	Temperature	-40 - 50 °C
	Relative humidity	90% rH (non-condensing)

Standards CE

- Low Voltage Directive 2014/35/EU: - Standard IEC669-2-1 Standard IEC669-1
- EMC Directive 2014/30/EU: CENELEC EN61000-6-3 EN61000-6-2



Article codes Article code Current rating 400 VAC Current low volt. part Fuse low volt. part EH3C4-15 0.2 A 0.630 A 22 A

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Wiring and connections



heater runs (put bridge between "+" from "Ext" and Ai when not in use	
Passive PT500 temperature sensor (like f.e. FLTSN-P500-010 or ROTSN-P500)	Ti
contact normally closed – switch for remote control (when CC is opened the heater stops)	СС
contact normally open – input for timer for night temperature (when OC is closed setpoint depends on position of potentiometer)	ос
Analog output	Ao

B

EH3C4-15