



EH2A

electric heating power module 1/2 phase

EH2A proportional electric heating controllers are designed to maintain the air temperature in single (230 V) or two phase (400 V) heating systems by providing a continuously adjustable control of the load. These pulsers are connected in series between power supply and an electric heater.

The EH2A is easy to install and can be used with any master device that has a 0-10 V or 0-20 mA output to suit different applications. The controller utilises time-proportional control: the ratio between on-time and off-time is varied to fit the required heating power. Control accuracy is better than normal triac control and also contributes to reduced energy costs. Since the current is switched by a triac there are no moving parts that can wear out.

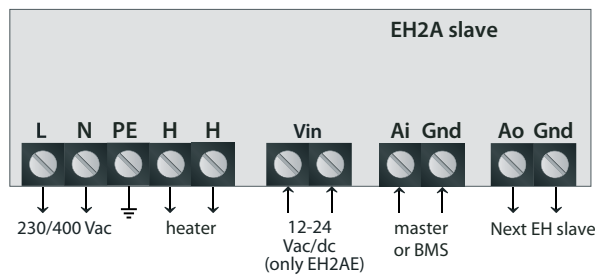
The current is switched at zero phase angle to eliminate network disturbance. It has been developed to provide high quality, accurate control and low life cycle costs. The EH2A features over temperature protection with automatic reset and output and power LED indication. An analog output (0-10 V or 0-20 mA) is available for slave functionality with multiple EH2 devices or any other controller that can be driven with these signals.

FEATURES

- ③ Over temperature protection with auto reset and shutdown
- ③ No additional heatsinks required
- ③ For loads up to 3 kW (230 VAC) or 6 kW (400 VAC)
- ③ Robust enclosure
- ③ For wall and DIN-rail mounting
- ③ LED indication for power output, power on and temperature
- ③ Control signal 0...10 VDC, 0-20 mA
- ③ Max. load 15 A, min. 1 A
- ③ Low power dissipation
- ③ Ambient temperature -10...50 °C, non-condensing
- ③ Ambient humidity max. 90 % rH
- ③ Storage temperature -40...+50 °C
- ③ Conform requirements of European EMC standard CENELEC EN61000-6-3 and EN61000-6-2, European LVD standards IEC669-1 or IEC669-2-1 and carries the CE mark
- ③ Protection class IP20

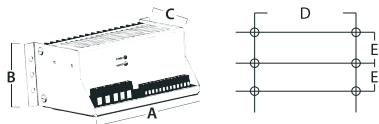
	EH2A1-6	EH2AE-6
Power supply	210-415 VAC (automatic adaption)	12-24 VDC/VAC (external)
Current rating 230 VAC	13 A	13 A
Current rating 400 VAC	15 A	15 A

WIRING DIAGRAM



L-N	power supply 230/400 VAC-50/60 Hz
Pe	earth connections
H	output to electrical heater
Vin	power supply 12-24 VAC/dc (only EH2AE-6)
Ai	analog input 0-10 V/0-20 mA (also BMS)
Ao	analog output 0-10 V/0-20 mA

DIMENSIONS & FIXING



	A	B	C	D	E	weight
EH2A1-6	105	50	73	113.5	12.5	413 g
EH2AE-6	105	50	73	113.5	12.5	313 g