

Kuhnke Power Heat Controller

Control Technology

Kuhnke Inductive Power Heat Controller Thermo-controller

As a piece of power electronics equipment, the induction generator feeds 3 kW to each of up to 8 induction coils.

The unit operates on the three-phase current mains at voltages between 360 V and 440 V and a frequency of 50/60 Hz.

It rectifies the mains current and outputs it to the intermediate circuit used to separately feed power to each of the induction coils.

A CANopen fieldbus is used for actuation.



Features

- Separate control of 8 induction coils by a single unit
- CANopen fieldbus interface
- Industry-ready and sturdy design
- 15 kW of continuous power, 21 kW boost
- Operating point optimised for low power loss

Technical data	
Type	Kuhnke Inductive Power Heat Controller
Number of channels	8
Output power	15 kW continuous power to all zones (21 kW peak for 5 min)
Load type	Induction coils to specifications, approx. capacity 3 kW
Mains voltage	3 x 400 VAC ($\pm 10\%$), no N wire, 50/60 Hz
Mains types	TT or TN system; 50 Hz / 60 Hz
Adjustment range	0% ...100%
Power supply voltage	24 V DC / 18 V – 32 V to electronic circuitry, approx. power consumption 0.5 A
Controls	PLC program operating and monitoring, status LED
Fieldbus	CANopen, coding switch for address assignment
Functions	Vary output level by physical output, max load, error message, temperature monitoring
Housing (H x W x D)	Stainless steel, dimensions 412 x 82 x 300 mm
Protection	IP20, unit for installation in closed, metal switching cabinets
Operating temperature	Ambient temperature if installed vertically: 0 °C...+50 °C

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