

Industrial Heater

Control Technology

Modular Heating System

Induction generator 6 x 3 kW

The induction generator module is designed to supply up to 6 induction coils (inductors) with a power of 3 kW each. The device operates on the three-phase mains with a voltage of up to 400 V and a frequency of 50/60 Hz. The mains current is rectified and fed to the DC link, from which the inductors are individually supplied. The output power is controlled via the Kendrion controller of the modular industrial heating system. The setting range from 0% to 100% can be selected individually for each channel. By using state-of-the-art semiconductor switches, the output stages achieve high efficiencies, at working frequencies up to 25 kHz.

Features

- Independent control of 6 induction coils
- Industrial-grade, rugged device design
- 18 kW continuous power
- Low power loss through operating point optimization
- Control connection via MHS controller
- Up to 7 generator modules working together with one controller



Technical Data	MHS Induction generator 6 x 3 kW
Load	specific induction coils (inductance 875 $\mu\text{H} \pm 150\mu\text{H}$) Other values on request.
amount of channels	6 channels individually controllable
Output power	6 x 3 kW, continuous power 18 kW
Operating Frequency	2 ... 25 kHz, automatic operating point determination
Main voltage	3 x 400 VAC +10% /-15%; 50/60 Hz; Network configuration TT or TN
Adjustment range	0 ... 100%, independent for each channel
Function	Integrated power measurement, short circuit detection, DC link monitoring, automatic frequency tuning, resonance frequency monitoring
Modulbus	Data communication via CAN, electronic supply 24 VDC
Cooling	Forced air cooling, power loss max. 250W
Assembly	Prepared for installation on cabinet mounting plates
Protection	IP 20, Device for mounting in a closed, metallic control cabinet
Housing, (H x B x T) [mm]	Book Size steel housing with stainless steel cover, (451 x 105 x 313)
Operating temperature	In vertical installation position: 0°C ... 35°C

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