

MICROMASTER 430

The Specialist for Pumps and Fans

Every task performed by a drive system involves its own specific requirements. There is therefore a demand for inverter solutions that can be easily and flexibly adapted to cope with the broadest variety of challenges. It is exactly this flexibility which characterizes our modular MICROMASTER 430. Specially for use with pumps and fans in industry, it performs a wide variety of tasks in similar applications as well. Compared to the MICROMASTER 420, it features greater power efficiency and has more inputs and outputs as well as an optimized operator panel with switch-over between manual and automatic modes of operation.

Typical Uses

Specially suitable for pumps and fans.



MICROMASTER 430 – Technical Data

Voltage and power ranges	380-480 V, $\pm 10\%$, 3 AC, 7.5 to 250 kW (10 to 300 HP)
Operating temperature	-10 °C to +40 °C
Process control	Internal PID controller
Types of control	FCC (Flux Current Control), multipoint characteristic (parameterizable V/f characteristic), V/f characteristic
Inputs	6 digital inputs, 2 analog inputs, 1 PTC/KTY input
Outputs	2 analog outputs, 3 relay outputs
Link-up to automation	The ideal partner for your automation needs, from connection to SIMATIC S7-200 to integration in TIA with SIMATIC and SIMOTION.

Its Strengths in Brief

- Compact housing
- Easy to install
- Guided commissioning
- Numerous communications options
- Ability to cope with high starting torques
- FCC control (Flux Current Control) for high drive quality, even when load changes occur
- Integrated activation of up to three additional drives (motor staging) for low-cost power multiplication for pump and fan drives
- Bypass support for rapid motor changeover to direct mains operation for maximum process safety
- Energy-saving function with motor shut-off for maximum energy saving without altering the
- 3 sets of drive data from which can be selected in order to adapt the inverter to different operating circumstances
- Compound braking for controlled rapid braking
- 4 skip frequencies for minimizing stress on pipe networks or on the load machine when resonance occurs
- Increase of equipment availability due to automatic restart
- Minimal stress on motor when inverter connected to rotating motor
- Evaluation of motor temperature by means of PTC/KTY input for integrated motor protection
- Prepared for use in IT networks
- Variants with an integrated EMC filter round off

- availability of full drive output
- Dry-running detection for pump drives

the range of products and help to reduce the amount of installation work needed.

MICROMASTER 430 is economically efficient in terms of both investment and operation.