MICROMASTER 411/ COMBIMASTER 411 distributed drive solutions

The MICROMASTER 411/COMBIMASTER 411 series is included in Catalog DA 51.3 which contains the complete product spectrum with ordering data, technical details and explanations.

Application

MICROMASTER 411 and COMBIMASTER 411 are the ideal solution for distributed drive applications that require a high degree of protection. The devices are designed for a wide drive range – for simple individual applications for pumps and fans through to multiple drives for conveyor systems in networked control systems. The ECOFAST versions of the MICROMASTER 411/COMBIMASTER 411 frequency converter series contain plug-in cables for the power supply, communications interface and motor connections. They support fast and problem-free replacement in time-critical applications and are completely compatible with the ECOFAST technology systems. They are based on the universal MICROMASTER 420 converter series and are characterised by customer-oriented performance and ease of use.

Structure

The modular structure allows MICROMASTER 411/ COMBIMASTER 411 products and their accessories to be individually selected, e.g. electromechanical brake control module or PROFIBUS module.

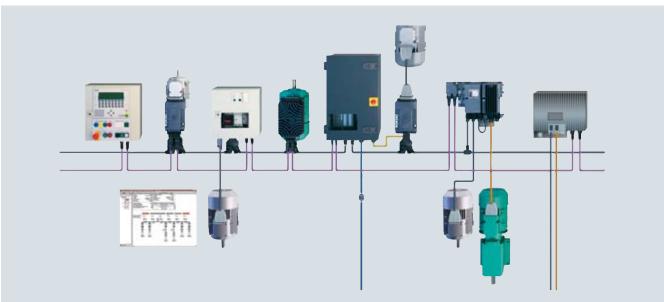
Main features:

- Output range: 0.37 to 3.0 kW, 400 V, 3AC
- IP66 degree of protection (MICROMASTER 411), self-cooling
- Electrical isolation between the electronics and the connection terminals
- Parameter sets for fast startup and cost savings
- Modular structure with numerous accessories
- Operation without operator panel possible (using jumpers and/or control potentiometer)
- Integrated control potentiometer accessible from outside.

Accessories (overview):

- Basic Operator Panel (BOP) for parameterising the converter
- Plain text Advanced Operator Panel (AOP) for MICROMASTER 411 and COMBIMASTER 411 with multiplelanguage display
- PROFIBUS module
- AS-Interface module
- DeviceNet module
- REM module (dynamic brake and control module for electromechanical brake)
- EM module (electromechanical brake control module)
- · PC connection kit
- Mounting kits for installing the operator panels
- PC startup programs





ECOFAST is a system which permits extensive decentralisation and a modular structure for installation elements on the component level.

Advantages

The main advantages of the ECOFAST motor connector over a terminal strip are as follows:

- Fast assembly of I/O devices (e.g. motor starters) from the
- **ECOFAST** system Reduction of assembly and repair times at the end user
- No wiring errors due to connector technology

• Replacement of motor without intervention in the electronics Main features of the ECOFAST motor connector (with separate MICROMASTER 411 frequency converter)

The motor connector is mounted in the factory and replaces the connection box with terminal board. The connector is mounted towards the non-drive end (NDE). It comprises an angled motor connection casing that can be rotated by 4 x 90°. A 10-pole (+ earth) male insert is used in the housing. In the plug-in connector, the winding connections are connected and optionally the power supply for the brake and the signal leads for the tem-

perature sensors. The ECOFAST motor connector is compatible with the products of the ECOFAST field device system. Further information can be

industrial connectors, so it is possible to use a complete series of different standard inserts (such as Han E. ES. ESS from Harting). The motor circuit (star or delta connection) is selected in the mating connector for motor connection. The relevant jumpers are inserted by the customer in the mating connector. As a casing for the mating connector, all standard sleeve casings with lengthwise locking, frame size 10B (e.g. from Harting) can be used

Only one sensor (temperature sensor or PTC thermistor) can be

Maximum admissible mains voltage on motor connector: ≤500 V

The ECOFAST motor connector can be supplied for the following

The mounting dimensions of this casing match those of standard

Direct on-line starting: Voltage code 1 for 230 VΔ/400 VY,

connected

motor versions with the exception of the explosion-proof motors: Frame sizes 56 M to 132 M

Availability of the ECOFAST motor connector

• Output range 0.06 to 5.5 kW (7.5 kW on request)

50 Hz • Star-delta starting: Voltage code 9 with order code L1U

400 VΔ. 50 Hz

http://www.siemens.com/ecofast

More information Further information is available in the Catalogs IK PI and DA 51.3 "MICROMASTER 411/COMBIMASTER 411 distributed drive solutions" as well as on the Internet at:

found in Catalog IK PI.