

# SIEMENS

*Ingenuity for life*

## SIMOCODE now communicates with EtherNet/IP

Electronic full motor protection – can now be integrated into the process control system using EtherNet/IP

[usa.siemens.com/simocode](http://usa.siemens.com/simocode)

Is it important for you to avoid cost-intensive plant downtimes, prevent faults or locate errors in the system before they can cause any damage? Then choose SIMOCODE pro. The motor management system provides you with detailed operating, service and diagnostic data which you can use to improve the process control quality. SIMOCODE pro for EtherNet/IP will combine the most innovative motor

management system with one of the most widely used Ethernet based protocols. This means it is able to communicate with a wide range of process control systems. Regardless of whether you want to control and monitor processes in the metal and cement, food and beverage, or mining industries: SIMOCODE can be used flexibly in every environment.



### Customized motor management

- Scalable solutions for all application requirements
- Flexible solutions for all plant sizes



### Enhanced monitoring and improved plant availability

- Extensive protection, control and monitoring of motor and application, independently of the controller
- Integrated web server for direct device diagnosis via standard web browser



### Protection for personnel and machinery

- First motor management system with integrated safety technology



### Comprehensive communication interface

- Connection to various control systems based on EtherNet/IP
- Support of redundancy mechanisms (Device Level Ring)
- Further communication protocols (e.g. PROFINET, PROFIBUS) available



### Simple configuration and fast commissioning

- Easy and intuitive engineering
- Extensive diagnostic options during operation

# SIMOCODE pro for EtherNet/IP: Exactly optimized for your individual requirements.

## Functions overview

Fixed preprogrammed motor control functions or customized solution: the choice is yours!

- Basic control functions (e.g. overload relay, direct-on-line starter and reversing starter, soft start, wye-delta)
- Extended control functions (e.g. pole-changing starter, positioner)
- Protection functions (e.g. overload, thermistor, phase unbalance,...)
- Monitoring functions (e.g. current limit values, downtimes,...)



- Current measurement
- Ground-fault monitoring
- Temperature monitoring
- Voltage/power/frequency measurement
- Analog value monitoring
- Safety-related shutdown

## SIMOCODE in Motor Control Centers (MCC)

SIMOCODE is what makes a Siemens MCC a smart MCC. Siemens tiastar motor control centers deliver exceptional performance, a range of powerful options, and the convenience and robust capabilities of EtherNet/IP connectivity. PROFINET and EtherNet/IP are the leading industrial Ethernet protocols with millions of devices installed from a wide range of product vendors ensuring the long-term viability of today's installations. While PROFINET and EtherNet/IP use the same Ethernet as offices and IT departments around the world, their capabilities are enhanced significantly in order to meet the higher standards and environmental challenges of industrial applications. Maintenance and servicing of Ethernet devices, like the tiastar MCC, is now possible from anywhere in the world via the internet. Network communication down to the individual MCC cubicle level allows unprecedented control, protection, and monitoring capabilities via familiar, Ethernet-based communication networks. The result of Ethernet's efficiency means optimal use of available user resources, and a significant increase in plant availability.

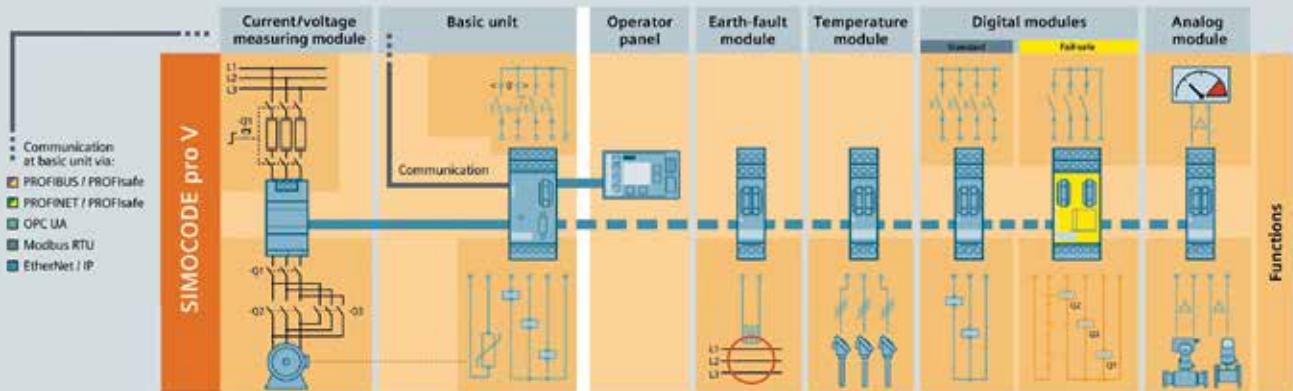
### Features include:

- Suitable for harsh industrial environments
- Integrated safety function
- Flexible topologies
- Device communication, control, and diagnostics
- Deterministic, high-speed communication ideal for critical data and I/O exchange
- No network device or data limits
- Wire, fiber-optic, and wireless
- Support of redundancy systems



## SIMOCODE pro: system overview

With SIMOCODE pro you get the full range of features. The motor management system can be connected to all important communication systems – such as PROFIBUS and PROFINET, Modbus RTU and now also EtherNet/IP!



### Key data of the basic system

- Basic unit: 4 inputs and 3 outputs
- Basic unit with digital modules: max. 12 inputs and 7 outputs
- Expansion I/Os

### Ordering data of the basic unit

- **3UF7013-1AB00-0**  
SIMOCODE pro V EtherNet/IP interface, 2RJ45 ports, 100 MBit/s, media redundancy DLR, integrated web server, 24V DC
- **3UF7013-1AU00-0**  
SIMOCODE pro V EtherNet/IP interface, 2RJ45 ports, 100 MBit/s, media redundancy DLR, integrated web server, 110–240V AC/DC
- Detailed ordering data on the expansion components can be found in the IC10 catalog.

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