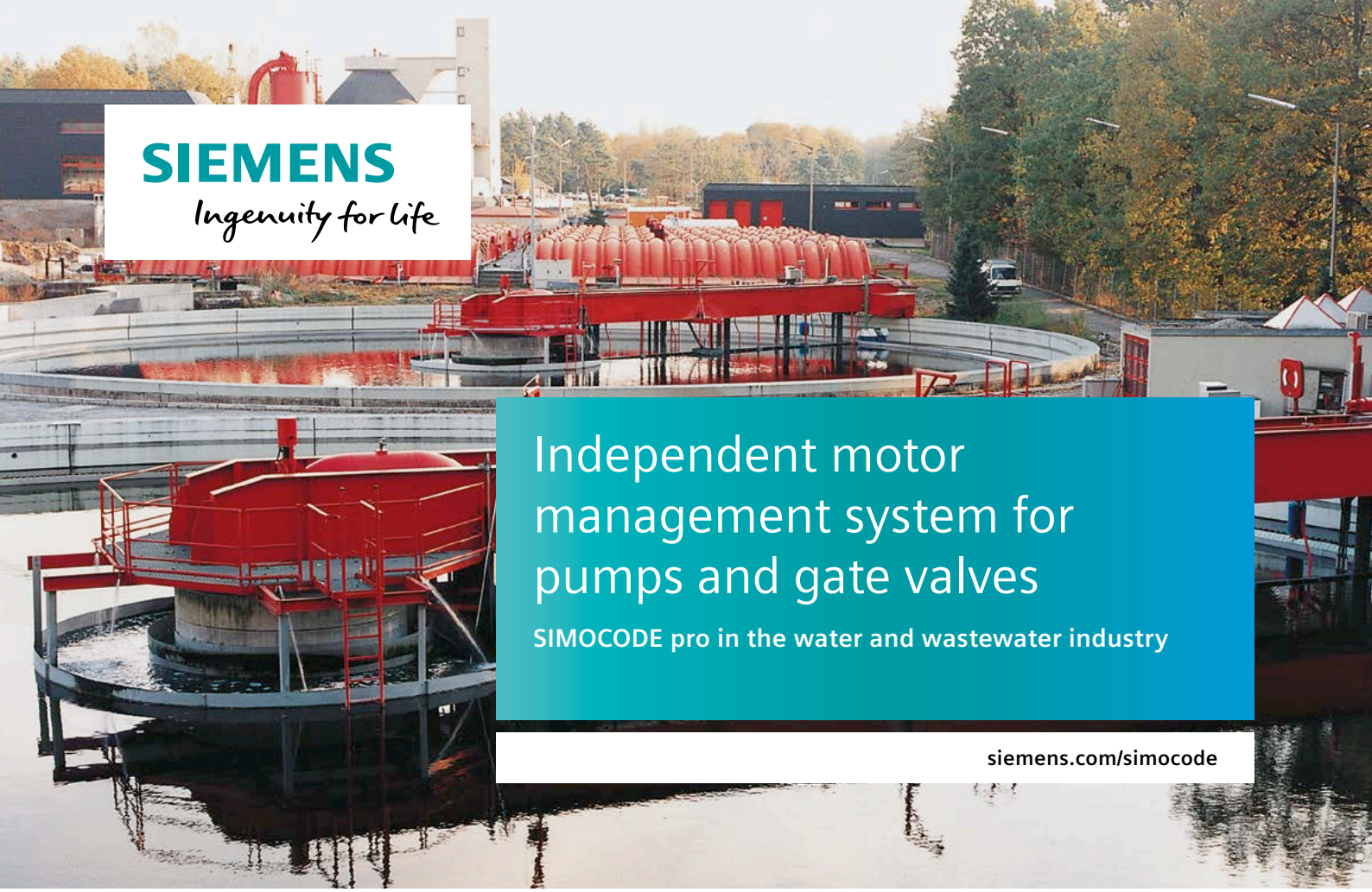


SIEMENS
Ingenuity for life

Independent motor management system for pumps and gate valves

SIMOCODE pro in the water and wastewater industry

siemens.com/simocode

SIMOCODE pro is a flexible, modular motor management system for low-voltage motors with constant speeds. Its preferred use is for the protection and control of pumps, gate valves or valves.

Multifunctional, safe and reliable

Two series of devices allow flexible use depending on plant requirements:
SIMOCODE pro S is the smart, compact entry-level solution for motor management in standard applications. It meets the most important requirements, e.g. for overload and thermistor motor protection, as well as ground-fault monitoring.
SIMOCODE pro V, on the other hand, offers additional variable and intelligent functions such as voltage and frequency measurement or even fail-safe shutdown.

The range of functions extends from simple current, voltage and power measurement, to the detection of rotational direction, or drive belt slippage or breakage, to the monitoring of pumps for dry running, filter clogging, and flow or fill levels – all in one system! With SIMOCODE pro you benefit from extremely easy user guidance and high-level process quality, while keeping costs for planning, installation, operation and maintenance to a minimum. By the way: SIMOCODE pro also works independently of control systems.

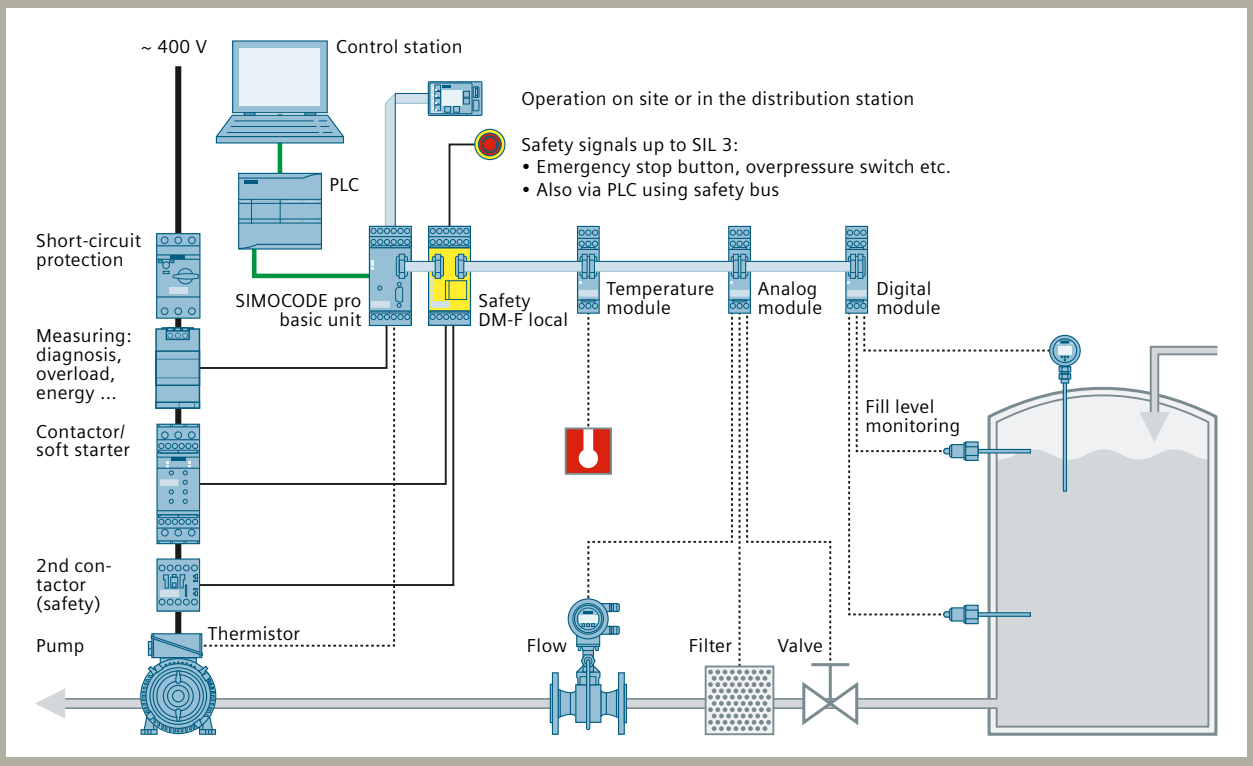
Highlights at a glance

- Multifunctional, electronic full motor protection, independent of the automation system
- Communication via PROFIBUS, PROFINET, OPC UA, Modbus and EtherNet/IP
- Detailed operational, service and diagnostics data for flexible use – in higher-level process control or energy management systems
- Versatile integration of process sensors, such as temperature or fill level measurement
- Easy installation and maintenance, e.g. by means of simple device replacement
- Easy integration and diagnosis in the SIMATIC process control system by means of function blocks from our water library
- Efficient, intuitive engineering thanks to integration of SIMOCODE ES into the TIA Portal

SIMOCODE pro Safety for safe solutions

In water treatment or purification plants, safety and reliable operation take top priority. This is because situations can arise at any time in which plant or personnel have to be protected – for example by safely switching off a motor. With SIMOCODE pro Safety you are always on the safe side.

On-site pump control with SIMOCODE pro Safety Solution local – safe and easy to operate



All information regarding the sensors and the motor (current and voltage values) is clearly recorded on site and provides a comprehensive overall picture of the complete section of the plant. Independent on-site control is possible, even if the data link to the main controller should be interrupted.

Even an emergency stop switch can be integrated independently and via PROFIBUS / PROFINET. Other typical applications: Pump stations, hoist/ screw pumps, sand traps, aeration tanks/ventilation, primary clarification tanks/scrapers, and overflow basins for rainwater, etc.

SIMOCODE pro Safety – optimally integrated

By combining SIMOCODE pro V with a fail-safe module (DM-F local or DM-F PROFIsafe), you benefit from flexible, modular motor management functions and integrated safety technology in one system.

People and machines are protected by combining various multi-stage protection and monitoring functions in SIMOCODE pro and by safely switching off the load feeder. For this purpose, the requirements laid down in the IEC 61508, IEC 62061 and ISO 13849-1 standards for functional safety up to SIL 3 and PL e are met.

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