SIEMENS

On the Safe Side with SIMOCODE pro

The motor management system with modularly expandable safety technology

Motor management in gas supply plants

The protection of persons and machines is the paramount priority in everyday production processes. This particularly applies to areas entailing high risk potentials, such as gas supply plants. In order to ensure such consistent protection, we directly combined motor management and safety technology. The result: SIMOCODE pro Safety.

Fail-safe disconnection

The interaction of fail-safe digital module and the SIMOCODE pro V central module offers genuine added value: You benefit from safety technology and flexible, modular motor management – in one system. Multilevel protection and monitoring functions are combined with each other in a way which consistently ensures the protection of persons and machines by means of safe load disconnection.

SIMOCODE pro can be easily and directly connected to superior automation systems via PROFIBUS / PROFINET. In contrast to conventional safety technology, which particularly in the field of process technology mostly represents a completely autonomous system, it can now also be configured together with the standard automation with the help of the DM-F PROFIsafe digital module of SIMOCODE pro.

Highlights at a glance

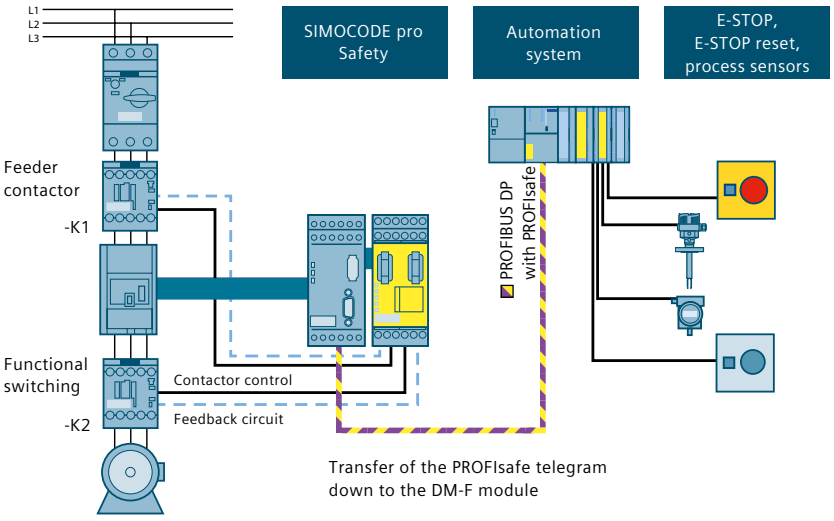
- Combination of functional switching and fail-safe disconnection already in the motor management system – without additional expenditures
- Integration of protective monitoring functions already in the modules
- Transfer of conclusive diagnostics information to the control
- Connection to PROFIBUS / PROFINET
- Designed for the SIVACON S8 low-voltage power distribution board, which sets new standards as energy distribution board or motor control center

Answers for industry.

Play it safe

Safe and smooth motor disconnection has to be supported at all times. SIMOCODE pro fulfils the respective prerequisites. The motor management system is not only integrated in the power distribution board, but can also communicate with the automation system via PROFIsafe.

Processing of the safe disconnection signal via PROFIBUS / PROFINET / PROFIsafe



The sensor's and motor's information is completely acquired and combined into an overall image of the complete plant section. Transfer to the automation system is realized via PROFIBUS, PROFINET or PROFIsafe.
Moreover, an EMERGENCY-STOP disconnection can be integrated autonomously or via PROFIBUS / PROFINET.

The requirements of the IEC 61508/62061 and ISO 13849-1 standards on functional safety up to SIL 3 or PL e are complied with.

Leading the safe way: RWE uses SIMOCODE pro

RWE Gasspeicher GmbH develops, operates and markets modern gas reservoirs on five sites – for which it uses underground cavern or pore storage facilities. RWE fully relies on SIMOCODE pro: In the low-voltage power distribution board at the Xanten site alone, approx. 600 motor management devices by Siemens are employed. 80 of these devices feature safety-technical functions. As a result, all requirements in terms of safety technology are already met with the help of the motor management system.
RWE thus follows its own advertising slogan and also leads the safe way when it comes to investments in sustainable technology.

Power distribution board and motor management system close ranks

With SIMOCODE pro, safety technology is directly integrated in the power distribution board. This allows for the economization of a large number of distributed safety modules. In the SIVACON S8 low-voltage power distribution board, the motor management system supports the assembly of space-saving, communication-capable load feeders with maximum performance.

The protection, switching and control devices required for the respective feeder are positioned in the individual withdrawable units and are centrally controlled via SIMOCODE pro.

Siemens AG
Industry Sector
Control Components and
Systems Engineering
P.O. Box 23 55, 90713 FUERTH
GERMANY

Subject to change without prior notice
Article No.: E20001-A350-P301-X-7600
Dispo 27600
SCHÖ/52098 2201652411 SB 05143.
Printed in Germany