



DEHN protects.

Low-voltage regulation systems from A. Eberle

Customer

A. Eberle GmbH & Co.KG

Project overview

Sector

Power supply systems/electric measuring and control systems

Application

Surge protection for low-voltage regulation systems

Hardware

Depending on the application
- Type 1 DEHNventil arresters
- Type 1 DEHNvenCI arresters
- Type 2 DEHNguard arresters

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A. Eberle GmbH & Co.KG

The globally active company A. Eberle, which was founded in 1980, offers complete solutions for electric measuring and control systems. The most important business segments are e.g. voltage regulation (low-voltage and high-voltage level), voltage quality measuring, monitoring of network dynamics and detection and compensation of earth faults. The company's goal is to solve all measuring, control and registration tasks in relation to transformers and Petersen coils. All products designed for this purpose are supposed to ensure and improve the security of supply and the resulting availability of the power supply system.

Challenge

As a result of the increasing integration of photovoltaic systems in the low-voltage network and the resulting voltage stability problems, the company A. Eberle GmbH & Co. KG developed the LVRsyst™ low-voltage regulation system which is a cost-effective alternative to grid expansion. This system is profitable in all low-voltage networks where the short-circuit power is sufficient, but voltage stability problems occur. Low-voltage networks are extremely versatile and complex. Therefore, electricity (also at the low-voltage level) is still distributed via overhead lines in many areas. These overhead lines are regularly exposed to direct lightning strikes.

Solution

To protect the sensitive semiconductors of the LVRsyst™ low-voltage regulation system, the company A. Eberle relies on lightning and surge protective devices from DEHN. Depending on the performance of the installation, arresters for power supply systems with remote signalling contact are used, for example:

- ➔ DEHNventil (modular multipole type 1 + type 2 spark-gap-based arrester) or
- ➔ DEHNvenCI (single-pole type 1 spark-gap-based combined arrester with integrated backup fuse) and
- ➔ DEHNguard (type 2 surge arrester).



Benefits of the DEHN solution

- ➔ Laboratory-tested protective effect
- ➔ Protective devices can be flexibly used – according to the type of installation and customer specifications
- ➔ Modularly expandable system
- ➔ Space-saving DIN rail mounting
- ➔ Floating remote signalling contact for continuous monitoring of operations
- ➔ Optimal technical support and training