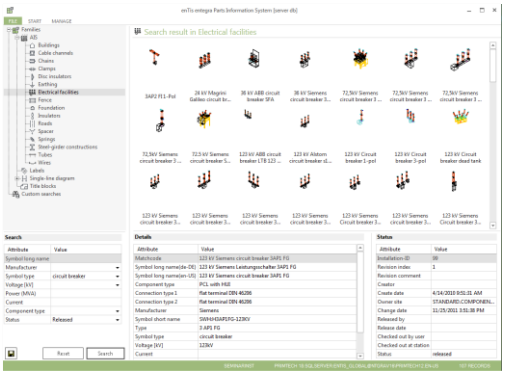
primtech – CAD Component Library for High-Voltage Switchgear

The component library manages component data and CAD models, and makes intelligent assembly functions available for design work in the CAD system.



primtech contains about 2000 symbols specifically for the design of high-voltage substations. This includes components such as:

- Power switches
- Transformers
- Isolators
- Insulators, chains
- High-voltage cables
- High-voltage pipes
- Earthing components
- Foundations
- Steel construction
- Terminals
- .....

The library can be freely extended.

Components With and Without Geometry

Both graphical and non-graphical component information can be saved. Terminals are described by, for instance, the type of connection, type of outlet or by manufacturer information, and may be added simply as a data record and not as a geometry. Components such as power switches, insulators or steel construction elements are saved as geometries together with a data record.

Components from Outside/Company Identification

The company that created the symbol is saved along with every library component. Changes to a symbol can only be carried out by the company that created it. In this way the consistency of the data and the geometries is always ensured, even when exchanging data with other companies.

Connecting Points

Components saved in the library have connecting points by means of which the components are assembled together.

Intelligent snap functions mean that positioning components of a high-voltage switchgear in the 3-D CAD system is very easy.

ERP Coupling

By coupling the library to your ERP system (e.g. SAP) you can optimize the consistency of your processes. A standardized XML interface allows the material data to be kept consistent at all times between the CAD and ERP systems.

Detailing Levels / Alternative Representations

Multiple geometries can be saved for each library component, and it is possible to swap between these at any time during editing. You can, for instance, display different switched conditions of your equipment at the push of the button, or you can work with simple geometries during design work and switch over to more detailed geometries prior to preparing a drawing.

Database

The component library is based on an Oracle or MS-SQL database, ensuring optimum performance even when the quantity of data is very large.

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