



THE NEW STANDARD IN ELECTRICAL ENGINEERING.

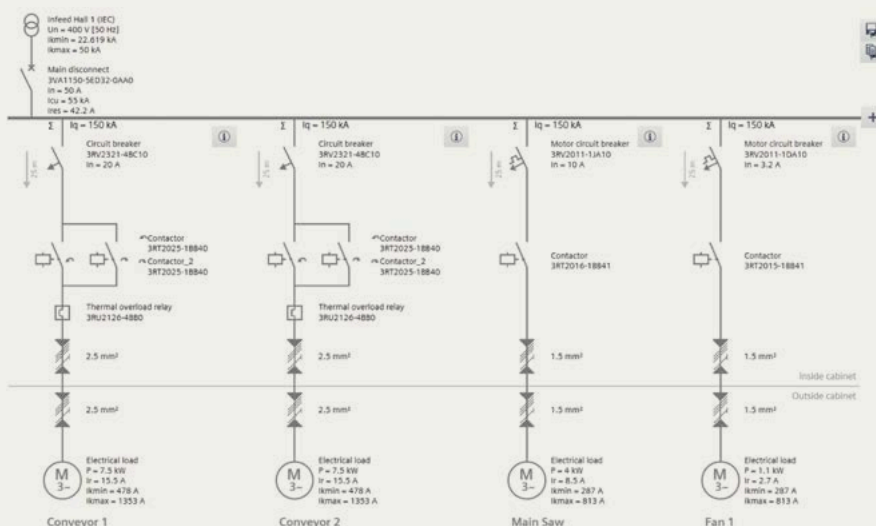
## Smart Control Panel Design

Control Panel Design is a powerful functionality in the TIA Selection Tool that allows you to design and dimension a machine's main circuit in compliance with the standards. This facilitates your electrical engineering.

[siemens.com/cpd](https://www.siemens.com/cpd)

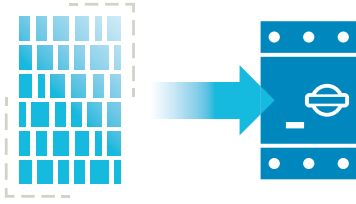


Are you looking for a clear and easy way to dimension your circuits?



**Electrical engineering in 1 single tool. This makes project planning more fun!**

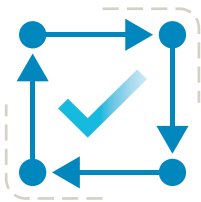
- **Easy dimensioning**  
A new dimension of dimensioning
- **Digital expertise on standards**  
Standard conformity with no worries
- **Consistent workflow**  
Electrical engineering with unlimited creativity
- **Supported portfolio**  
Intelligent devices for versatile solutions



Easy dimensioning

## A new dimension of dimensioning

- Optimized cable dimensioning for load feeders
- Dimensioning of fuseless and fused load feeders up to 250 hp in accordance with UL and therefore reliability due to pre-tested electrical engineering
- Dimensioning of fused and fuseless IEC load feeders for up to 250 kW according to IEC-60204-1
- Determination of total current taking into account simultaneities. Multiple load feeders can be dimensioned in parallel
- Individual main circuit view for the electrical planning in the TIA Selection Tool
- Easy main disconnect dimensioning for IEC- and UL-Infeeds (according to IEC-60204 and UL 508A)



Consistent workflow

## Electrical engineering with unlimited creativity

- User-friendly structure achieved by visualization of multiple fuseless load feeders at one infeed in the form of a single-line diagram
- Fused and fuseless setups are supported and visualized in the single line diagram
- Adaptation of any devices to individual requirements by means of subsequent change of device version
- Step-by-step instructions for electrical design in the TIA Selection Tool mean the actual job of engineering can begin sooner
- Tool-aided assignment of device designations for load feeders increases their efficiency
- Wide-ranging selection of accessories and device variants (e.g. for a wide range of control currents)
- Generation of control circuits for EPLAN (beta version)

### Siemens AG

Smart Infrastructure  
Werner-von-Siemens-Str. 48–50  
92224 Amberg, Germany  
Article No.: SIEP-B10058-02-7600  
Printed in Germany

© 2023 Siemens

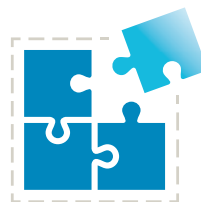
For the U.S. published by  
Siemens Industry Inc.  
100 Technology Drive  
Alpharetta, GA 30005  
United States



Digital expertise on standards

## Standard conformity with no worries

- Design of the complete electrical system of the machine according to North American standards: Calculation of wire cross-sections according to NFPA 79 and UL508A possible as well as the selection of the corresponding device portfolio
- Design of the complete electrical system of the machine according to IEC standards: Calculation of the cable cross-sections as well as short-circuit values according to IEC-60204-1 possible as well as the selection of the corresponding device portfolio
- Assignment of reference designations according to IEC-81346; including plausibility check
- Extensive documentation of technical data and standardcompliant short-circuit calculation



Supported portfolio

## Intelligent devices for versatile solutions

- Switching and protection equipment for UL and IEC from the SIRIUS modular system up to 250 hp or kW
- gG LV HRC fuse links 3NA as well as fuse bases and switch disconnectors (SENTRON)
- Motor starter protectors, starter circuit breakers, contactors, overload relays, SIMOCODE (3RV20, 3RV23, 3RT2, 3RU, 3RB, 3UF7)
- Simple selection of the required accessories for error-free set-up of reversing and star-delta combinations (SIVACON 8US) for an easy mounting on a bus bar system
- SENTRON 3VA up to 250 kW
- Moulded case circuit breaker SENTRON 3VA1/5 and 3VA2/6, switch disconnector SENTRON 3LD2
- Link modules, wiring kits as well as assembly kits
- Soft Starter (SIRIUS 3RW), Electronic Motorstarter (SIRIUS ET20SP)
- SINAMICS low-voltage drives and servo drives

Subject to changes and errors.

The information given in this document only contains general descriptions and / or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

All product designations may be trademarks or other rights of Siemens AG, its affiliated companies or other companies whose use by third parties for their own purposes could violate the rights of the respective owner.