

SIEMENS

Ingenuity for life

Smart Control Panel Design

The new standard in electrical engineering.

Control Panel Design is a new 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.



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

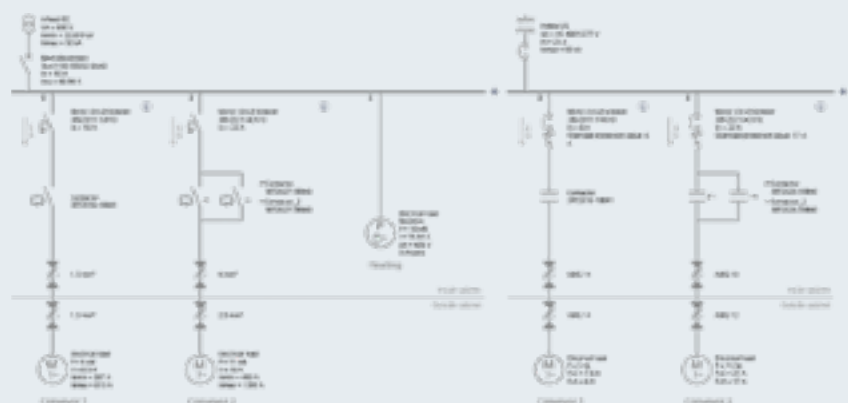
Easy dimensioning
A new dimension
of dimensioning

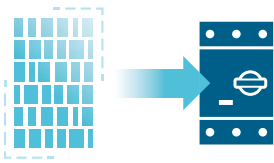
Digital expertise on standards
Standard conformity
with no worries

Consistent workflow
Electrical engineering
with unlimited creativity

Supported portfolio
Intelligent devices
for versatile solutions

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

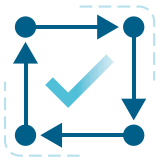




Easy dimensioning

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-Infeeds (with 3VA, 3LD) according to IEC-60204



Consistent workflow

Electrical engineering with unlimited creativity

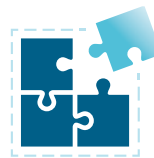
- User-friendly structure achieved by visualization of multiple fuseless load feeders at one infeed in the form of a single-line diagram
- Fused and fuseless setups are supported and visualized in the single line diagram
- Adaptation of any devices to individual requirements by means of subsequent change 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)



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 standard-compliant 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

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