

## 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!**

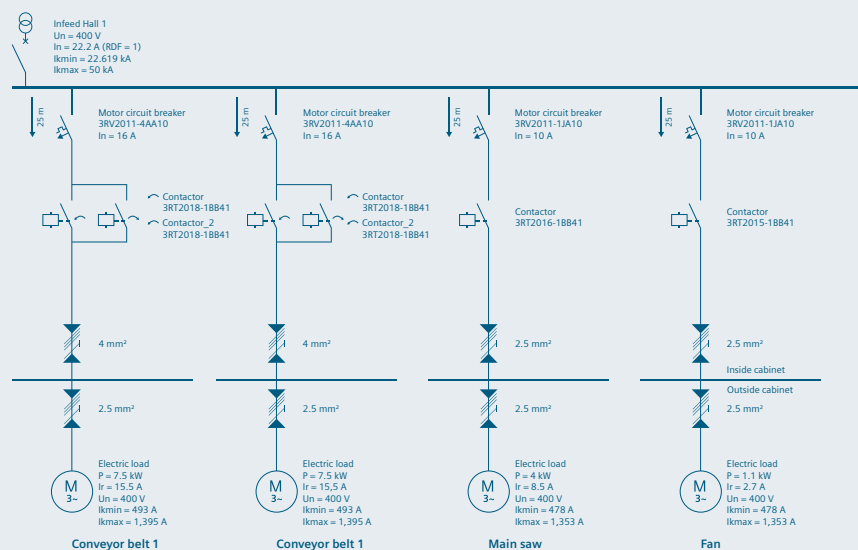
Easy dimensioning  
**A new dimension  
of dimensioning**

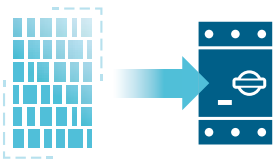
Digital expertise on standards  
**Standard conformity  
with no worries**

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?

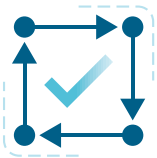




### Easy dimensioning

## A new dimension of dimensioning

- Optimized line dimensioning for load feeders
- Design of fuseless load feeders for up to 250 hp according to UL, which means certainty due to pre-tested electrical planning
- Dimensioning of fused and fuseless IEC feeders for up to 250 kW according to IEC-60204-1
- Determination of the total current under consideration of a selectable simultaneity factor. Several load feeders can be dimensioned in parallel
- With the help of the the Control Panel Designer Wizard, electrical planners will find a custom view in the TIA Selection Tool



### Consistent workflow

## Electrical engineering with unlimited creativity

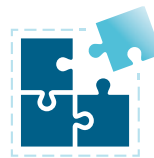
- More user-friendly structure for electrical planning due to visualization of several line feeders on an infeed in the form of a technical single-line diagram
- Advanced safety in US projects due to calculated engineering and predefined product selection
- Support of fused and fuseless structures and representation in the single-line diagram
- Adaptation of individual devices to the individual requirements (e.g. required auxiliary contacts on a contactor) through subsequent change of the device variant
- Creation of the all-pole circuit diagrams and layout plans for line feeders  
Transfer of the configuration results for main and control circuits to EPLAN
- Step-by-step instructions for electrical design in the TIA Selection Tool and faster completion of the actual engineering task
- Tool-supported assignment of reference designations for line feeders increases efficiency



### Digital expertise on standards

## Standard conformity with no worries

- Digital standards know-how on North American standards with the UL feeder configurator (calculation of cable cross sections according to NFPA 79 as well as selection of the corresponding device portfolio possible)
- Digital standards know-how for IEC with the IEC Branch Configurator (calculations of the cable cross sections and short circuit values according to IEC-60204-1 as well as the selection of the corresponding device portfolio possible)
- Assignment of reference designations in accordance with IEC-81346 including plausibility check (minimizes errors in the assignment of reference designations)
- Know-how for the selection of fuses for motor feeders
- Creation of circuit diagrams in EPLAN according to the principle of modular engineering
- Standard-compliant documentation of technical data and calculations for the verification of the short circuit calculation for IEC



### Supported portfolio

## Intelligent devices for versatile solutions

- Switching and protection technology for up to 250 hp or, respectively, kW for UL and IEC from the SIRIUS modular system
- gG-NH fuses (SENTRON)
- Motor protection switches, starter protection switches, contactors, overload relays, SIMOCODE
- Easy selection of required accessories for error-free assembly of reversing and star-delta combinations  
Automatic display of accessories along with selected devices
- SENTRON 3VA for up to 250 kW

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