

Power Engineering

Consulting for electrical and electronic systems

- ✓ Efficiency
- ✓ Cost-effectiveness
- ✓ Service reliability
- ✓ Flexibility
- ✓ Product independence
- ✓ Compliance with standards

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A team of experienced experts from the energy and grid building sectors paired with manufacturer-independent software solutions.

That is Power Engineering.

The world is changing – grids of all voltages face great challenges with the energy transition. Incorrect or inexact planning entails a loss of even more money and that projects cannot be completed on time.

We support you in the cost-effective design and implementation:

Efficiency with grid calculations

The grids are facing a major change with the energy transition. Incorrect or inexact dimensioning can cost a lot of money.

Performing grid calculations from Grid Level one to seven is our expertise. This is independent of whether it involves radial networks, ring networks or meshed networks.

We calculate the voltages at network nodes, load flows during operation and harmonics for your existing network and new systems alike.

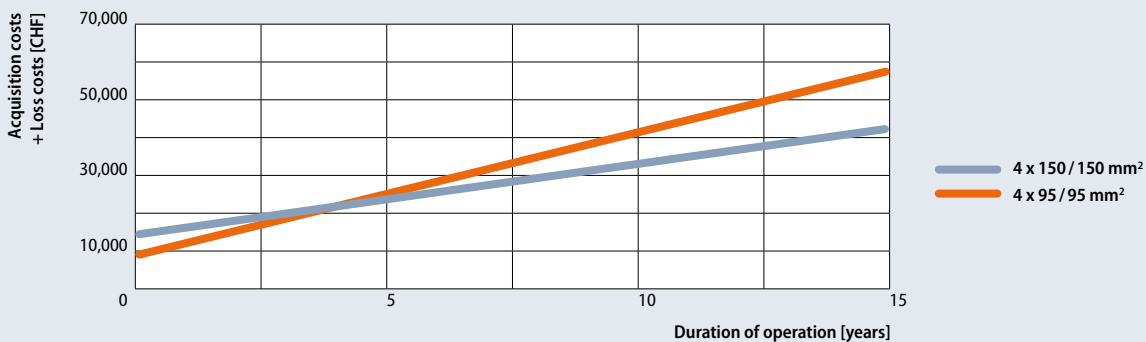
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Cost-effectiveness with correct conductor dimensioning

If the conductor cross-section is too large or small, it will have financial consequences for you.

We calculate all components, such as contact rails and cables, to perfectly match them to your requirements. With software-supported operating efficiency expertise, we show you all investment and operating cost savings, as well as operating material losses.

Influence of cable dimensioning on costs



Service reliability with short circuit and selectivity calculation

We design your system safely so that it is protected from short-circuit surge currents in any switching state, but also selectively switches off faulty circuits in time.

Flexibility with a variety of interfaces

Whether working in Excel, dwg or dxf – our network diagrams can be modified in a variety of ways. AutoCad circuit diagrams and quantity and material extracts can also be generated automatically from single-line network diagrams.

Product independence with the best software selection

Electrical equipment manufacturers offer various software packages for grid calculation. They are very good tools, but they are product-dependent.

With us, calculation only takes place with the operating equipment that is actually used and thus exclusively simulates realistic cases.

Compliance with standards

The 2015 Swiss Low Voltage Installation Standard clearly requires that the system must already be correctly dimensioned during the planning phase. We guarantee compliance with all standards and furnish all the necessary verifications for this purpose.

Our expert team of electrical engineers and safety consultants makes this possible.