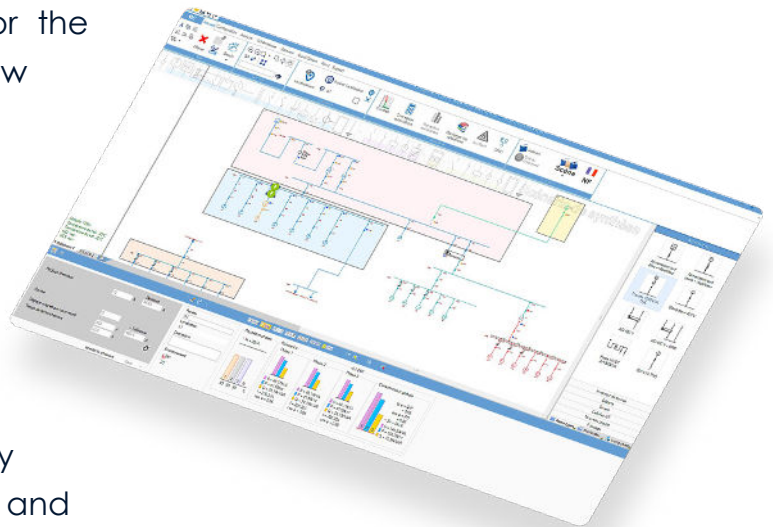


Size your High and Low Voltage electrical installations

If you draw it, it's calculated

elec calc is a calculation software for the design of all types of high and low voltage architecture according to the corresponding national and/or international standards.

Its user-friendly interface has been designed to bring flexibility and productivity to the design of your projects. The software will accompany you to ensure both the compliance and optimisation of your installation.



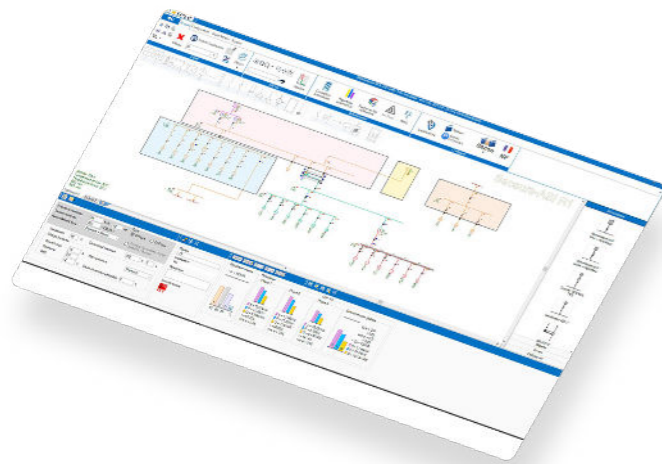
1. Modelling and setting

elec calc includes smart design features such as IntelliSense system which enables intuitive design of projects, highlighting components that can be logically connected to the selection. These intelligent features reduce design time and increase project productivity.

- Free entry of the single-line diagram thanks to the IntelliSense and a fully customisable schematic library
- Intuitive interface for management of cables methods of installation with management of several segments per cables
- Project management on multiple folios
- Integration of all voltage ranges in one single project: High and Low Voltage including DC
- Automatic and manual component marking, bulk processing on spreadsheet or Excel

elec calc allows the unlimited integration of operating modes in the synoptic in order to describe all the configurations of use of an electrical installation and thus to deduce the dimensioning cases in automatic. Moreover, the curve tool will allow to perform a set of simulations beyond the selectivity control by superimposing the curves of the different components and by simulating short circuits.

2. Sizing and optimisation



Power balance

- Real-time power balance management at all levels of the installation on sources and distributors
- Automatic phase balance
- Capacitor bank sizing tool
- Extraction of the power balance in Excel

Multi-manufacturer catalog

- Management of a multi-manufacturer catalog for all components
- Comprehensive database with a history of more than 20 years
- Catalog manager for content customization
- Customizable user catalog with integrated curve entry tools
- Automatic component reference selection function

Calculations and checks

- Multi-standard software (IEC, NF-C15-100 and NF-C13-200, NEN, RGIE, VDE, NIN, REBT)
- Calculation of short circuit currents according to the IEC 60-909 standard (symmetrical components method)
- Cable sizing according to IEC 60364-5-52 or national derived standards
- Computing and checking the thermal stressed
- Calculation of the THD according to IEC 61800-3 §3.3.2
- Voltage drop calculation

3. Simulation and editing

Protections and coordination

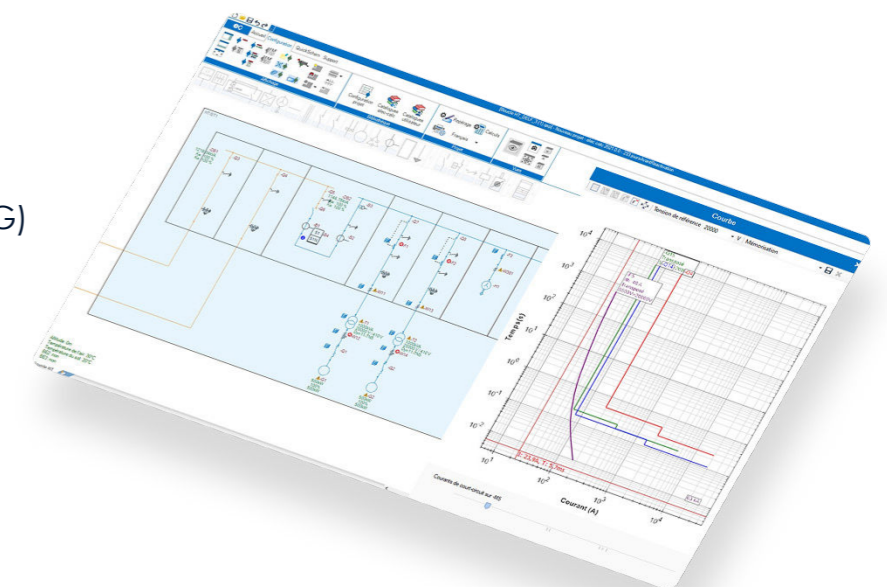
- Management of cascading and limitation
- Multi-level selectivity analysis
- Management of selectivity by manufacturers tables
- Simulation of a short circuit fault
- Control of the coordination and optimization of the selectivity
- Control of the differential selectivity

High voltage checks

- Cable sizing according to the modes of installation of the NF-C 13-200
- Management of protection relays - ANSI code 50, 51 and 50N, 51N
- Thermal stress calculation
- Calculation of the maximum withstand time of the cables
- Homopolar generators management

Deliverables

- Calculation report
- Single-line diagram (PDF, DWG)
- Excel export
- Exporting BOMs to the REXEL web-shop



elec calc

Size your High and Low Voltage electrical installations



Trace Software services



Hotline
Ticket or phone



Request manufacturer
references



Webinars &
video tutorials



Products updates



The software is references by ELIE BT trademark and recognized by all inspection bodies in France.

Discover the rest of the elec calc range



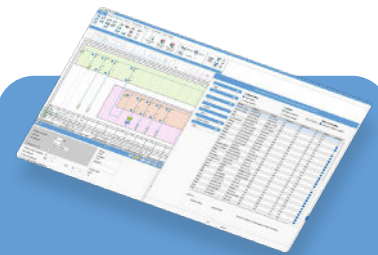
elec calc | grid

Size and simulate power grids with multiple synchronised sources



elec calc | bim

Design and size your electrical installations in an Open BIM process



elec calc | irve

Scale your electric vehicle charging infrastructure