The New Generation of Software for Designing and Dimensioning Low-Voltage Electrical Networks

18th Edition Ready
The Ideal Electrical Design Software

ElectricalOM is a Powerful, Fast, Accurate Software Solution for all types Domestic, Commercial and Industrial Low Voltage Electrical Designs

> Interactive CAD-Based Environment
> Precise Calculations
> Detailed Warning Messages
> Automated Schematic Diagrams
> Modular Solution
Powerful Cable Sizing Software

18th Edition Ready. Fully compliant with BS 7671:2018

The Software intelligently re-calculates the circuits with any change and produces quick and useful indications so the user understand what's being affected during the change

> Detailed warnings in each affected circuit
> Warnings are grouped based on the severity
> Warnings can be easily reviewed, filtered and printed
Selectivity (Discrimination) Analysis

ElectricalOM performs checks for all the protective devices in the electrical installation and warns the Designer of any selectivity problems discovered

> Manufactured Specific Data
> Over-Current and Earth Fault Selectivity Checks
> Time-Current Curve Checks
> Energy-Based Selectivity Checks
Detailed and Comprehensive Reports

An intuitive and user-friendly reporting environment allows the user to choose which reports to print. Reports can be directly printed or exported to Pdf, Word or Excel format.

- Source Characteristics
- Circuits Schedule
- Cable Calculation Reports
- Voltage Drop Analysis
- Street Lighting
- Power Factor Correction
- Bill of Quantities and much more...
Integrated CAD Plan Design Add-on

Automate the Electrical Design Process by creating Electrical Plan Drawings and collect from them information for the circuit calculations such as cable lengths and installation points per circuit.

User extendable symbol library with 3D elevation properties that enable the designer accurately model the placement of each symbol and wiring in the building.

Fully compatible with AutoCAD® dwg files.
Integrated Certification Add-on

We have incorporated Schematics and Certification in to a single solution that enables you to fill in design details from the schematic model.

- Compliant with the 18th Edition
- No need for a separate certification software
- Produce Certificates such as EIC, EICR, MW and many more
- Fill in Observations and Limitations quickly and easily
- Enables you to store Clients, Engineers and Test Instruments
- Fill in information Automatically or Manually

....are just of the new features available
Extensive Database and Support

Large Database of Manufacturer Specific Data:
> Protective Devices
> Cables
> Busbar Trunking Systems
> Constantly Maintained

Unrivaled Customer Care through:
> Automatic Updates through the Internet
> Live Remote Support (TeamViewer®)
> Live Chat and Support Ticketing System
> Free UK Support Line
> Training
Calculations and Dimensioning Criteria

- Source Characteristics (earthing system, fault levels etc)
- Cable Type and Installation Method
- Maximum Demand, Diversity and Spare Load
- Voltage Drop Limits
- Environment Correction Factors
- Min–Max Short Circuits and Earth Fault Currents
- Cable Energy Withstand
- Protective Devices Disconnection Time
- Protective Devices Let–Through Energy
- Protective Devices Current Limiting Characteristics
- Earth Fault Loop Impedance Limits
- Earth Fault Protection/RCD Devices
- Touch Voltage Limit
- Unbalanced Load
- Neutral Current
- Power Factor and Harmonics
- Motor Starter Type (Direct On–Line, Star–Delta etc)
- Motor Starting Current
- Motor Minimum Starting Voltage
- Parallel Source Operations
- UPS Characteristics and Parallel Operation
- Busbar Trunking System Thermal Limits
- Busbar Trunking System Peak Short Circuit Withstand
- Integrated AC & DC Systems
- DC Battery Characteristics