



UK'S LEADING ELECTRICAL
DESIGN SOFTWARE

ProDesign Electrical Design Software

ProDesign is the UK's leading Electrical Design Software, providing full electrical design and calculation capability to BS 7671

PRODESIGN

ProDesign is the UK's leading electrical design software which provides full electrical design and calculations to BS 7671. This is a powerful, engineer-friendly software that is ideal for projects of all sizes, from houses to airports. ProDesign's many design options provide total control from initial design through commissioning, right up to final completion.



Fast and accurate design calculations



Email reports and schematics to clients as PDFs



Integration between design & co-ordination



Synchronisation between Revit & ProDesign



Model projects with a static UPS



Available in 6 different versions



► Load Summation and Cable Sizing

ProDesign automatically sums the loads throughout a project, applying user controlled diversity settings where defined. ProDesign calculates the required cable or busbar current carrying capacity for each circuit in the design using the procedures described in BS 7671 Appendix 4. The software can be configured to automatically suggest an appropriate conductor size or check the suitability of a manually selected conductor.

► Voltage Drop

The voltage drop calculations in ProDesign are designed to assist the user in complying with the requirements of BS 7671. ProDesign can automatically enforce the voltage drop limits stated in Appendix 4 Section 6.4. Alternatively, user derived voltage drop limits can be applied.



► Line and Earth Fault Adiabatic Checks

Adiabatic calculations are required to check that the cross-section of all conductors are sufficient to withstand the energy let-through of the circuit protective device fault conditions. ProDesign automatically performs adiabatic checks. Manufacturer sourced energy let-through characteristics are used to ensure accuracy.

The fact that Amtech's support staff are electrical engineers who understand what we need to do with the software is an invaluable resource.

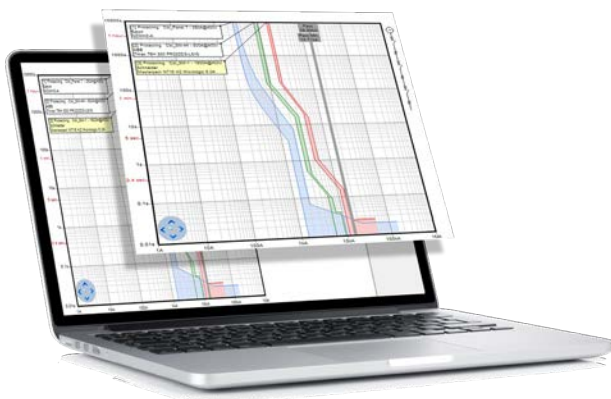
Arup

Amtech's ProDesign is the best electrical design package available within the market place.

Imtech UK

▶ Protective Device Selectors

ProDesign contains the UK's largest range of fuses, circuit-breakers and relays. These are defined with manufacturer approved data to ensure complete accuracy. We continuously update the database to include new protective device products as soon as they are released. We also provide a comprehensive selection of cables and manufacturer specific busbar ranges.



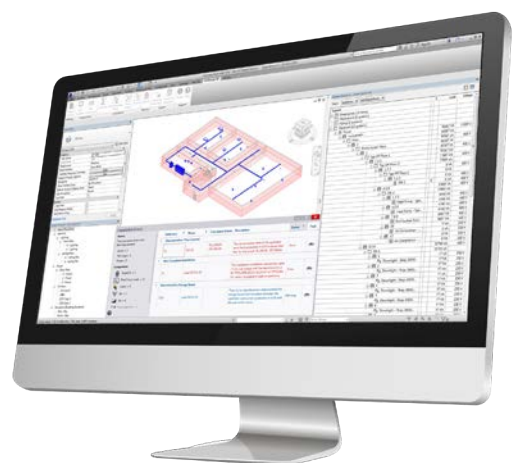
▶ Discrimination Checks

The discrimination checks ensure that, wherever a fault might occur in the network, the protective device nearest the fault will operate to disconnect it rather than the next device upstream. Two methods of discrimination check, energy-based and time-current, are available. Manufacturer sourced characteristics are automatically overlaid to check for time/current discrimination issues. Manufacturer published discrimination tables are used to detect energy-based discrimination errors.

▶ ProDesign 3D

ProDesign 3D is our new plugin for Autodesk Revit®. A first for the UK, ProDesign 3D allows you to perform BS 7671 compliant electrical engineering calculations integral to your design workflow in Revit®.

- ▶ Design in 3D
- ▶ Configure devices using ProDesign settings
- ▶ Run calculations
- ▶ Identify non-compliance
- ▶ Generate reports
- ▶ Produce schematics

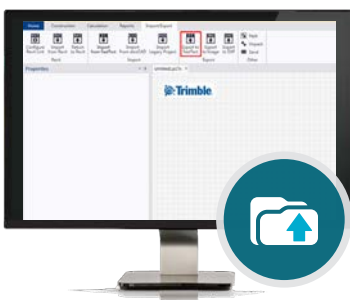


FEATURES

Features List

- ▶ Fast and accurate design calculations to BS 7671
- ▶ Produce single line schematic designs quickly and easily
- ▶ Design new or verify existing installations
- ▶ Produce 'What if' scenarios
- ▶ Manufacturer's data for over 30,000 protective devices
- ▶ Range of manufacturer busbars
- ▶ Extensive load type list including lighting loads
- ▶ Multiple earthing options
- ▶ Voltage drop calculations
- ▶ Bi-directional link to Protect
- ▶ UPS Modelling
- ▶ Save reports and schematics as PDF files
- ▶ Scalable to suit any project
- ▶ Comprehensive range of high quality reports

Integration



▶ FastTest

Export board layouts from FastTest and load the details directly into ProDesign.



▶ Protect

Study overcurrent discrimination and set complex adjustable protective devices.

▶ Support

Customer service and satisfaction is our number one priority! We provide a range of services to make using our products as easy and straightforward as possible. Amtech customers know they can get friendly help and advice quickly, allowing them to get on with their job.



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