

Introduction

Welcome to your first look at XXX! You might think that XXX is just another CAD software. Nothing could be farther from the truth. XXX is a tool that empowers you to perform tasks that you never thought possible in a fraction of the time that it takes to perform the task by CAD software. When you work with XXX, you become the master of your engineering - someone who gets the job done quickly.

When you look at XXX as a tool that helps you work fast, with fewer errors, and with greater freedom, you begin to understand how powerful this tool is. XXX is an exciting application to explore. You can experience the XXX advantage, too.

Consider other types of software that support electrical design work. Most systems simply replace drawing boards and allow the user to draw diagrams. CAD users often have to use spreadsheet or word processor tools to complete their design. Therefore the consistency of the documents cannot be guaranteed.

Computer-Aided Engineering (CAE) systems evolved out of CAD. They are primarily focused on accurate documentation and give the user more support, particularly enabling the generation of a broader range of documentation from the diagrams. But starting with circuit diagrams is not the best approach to meet the needs of an electrical engineering process. In reality, a lot of information on electrical projects has to be handled long before you can draw any diagram.

XXX allows you to organize your data from the very earliest stage in a project. You can set up a project in the primary engineering phase with the information available at that time. You can structure your project with locations and functions, and enter information about the equipment long before any diagram could be created.

Detail and device engineering steps will refine the project data whenever required. You can enter or modify all project data alphanumerically, or by defining details in diagrams. The different steps of your project design can also be realized either by one user, or by different workgroup users. You can select the best way to view and modify your project data at every step. With XXX, you select the fastest way to achieve success.

XXX is Computer Based Engineering for electrical design, and supports your workflow in an optimum way.

The built-in electrical intelligence of XXX optimizes your design work. Don't worry about the consistency of your design documentation. XXX will keep all documentation permanently consistent for you.

The innovative concept which XXX uses is to fully integrate 'electrical intelligence' with a powerful database and a user friendly, easy to use, diagramming tool. Data can be entered graphically from the diagram or directly into the database. The program also supports many electrotechnical aspects.

XXX contains the complete environment to support electrical engineering, as defined in the latest international standards BS/EN 60617:

- Comprehensive stencils for electrical diagramming with more than 2000 shapes
- Functional structuring
- Locations
- Device designation rules
- Cross-References

With XXX your design work is organized into projects which store diagrams, technical specifications and structural data, e.g. locations and functions. Automation begins as soon as any information on the project becomes available. Information entered can be used instantly to generate lists and draw diagrams.

All cross-references (e.g. from a contact to the relay) are always online in XXX. When you move a shape to another sheet, the cross-references are automatically updated. This improves the quality of the documentation dramatically.

Based on the virtual plant model stored in the XXX database, worksheets for Bill of Materials, Purchase Order Lists, Wiring Lists, etc. always reflect any changes in real-time. Worksheets can be used for modifying data, printing, and exporting. As the project develops, XXX remains a highly effective and flexible tool, allowing you to refine the details and update the Virtual Plant Model continuously.

XXX also ensures the fastest start-up in electrical design. You do not need training to become familiar with the user interface. All project data can be viewed and modified within the XXX Explorer that closely resembles the well-known Microsoft Explorer. Shortcut menus give access to program functions at every stage, and the standard Visio diagramming editor is already familiar to millions of users.

With XXX, your organization benefits from:

- instant start-up, no training required
- increased productivity
- consistency of data
- minimized risk of error
- improved communication with suppliers and clients
- improved internal communication, e.g. with the purchasing dept.
- more than 2000 IEC-compliant shapes
- better documentation for maintenance