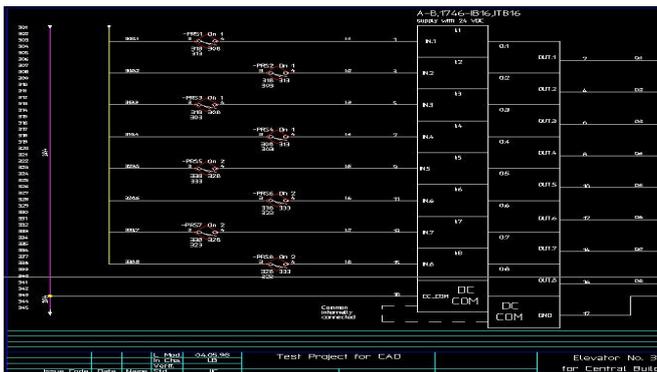


CADELEC 2009 is an AutoCAD-based electrical engineering design package that offers powerful features for heightened productivity, clearer drawings, and full error-free documentation. Throughout initial design, detailed drawing and product documentation stages, CADELEC provides up to the minute tools covering all aspects of electromechanical system development.

CADELEC packs a full range of custom drafting functions specifically tailored for electrical system designers, and includes full checking and listing features to minimize the risk of errors throughout the design process. For optimum productivity and project coherence, CADELEC can be networked into a design work group, allowing different designers to work on the same project and share the same libraries and catalogues.



Newcomers to CAD find CADELEC easy to learn, thanks to a standard Windows interface with drop-down menus and toolbars. And naturally, context sensitive help is only a mouse click away.

Using CADELEC, even inexperienced users can create drawings in record time, by accessing libraries that contain over 300 pre-drawn symbols, to ANSI-IEEE, JIC, CSA, BS, IEC, DIN, NEN or any other standard. These standard libraries can be customized to meet special needs, and you can create new libraries and symbols as required.

CADELEC offers two fully-interchangeable methods for preparing schematics: either you can draw the schematics first and compute the bill of material later; or you define the bill of material first, and pick components to insert in the drawing later. This kind of flexibility means developers can calculate the exact costs before starting construction work.

A sophisticated navigator function eliminates the need for time consuming manual searches between contacts, parts and terminals. Just click on a relay contact, and CADELEC will automatically go to the drawing that contains the coil (or vice versa). This also works between terminals and pinout drawings, and between cabinet layouts and schematics.

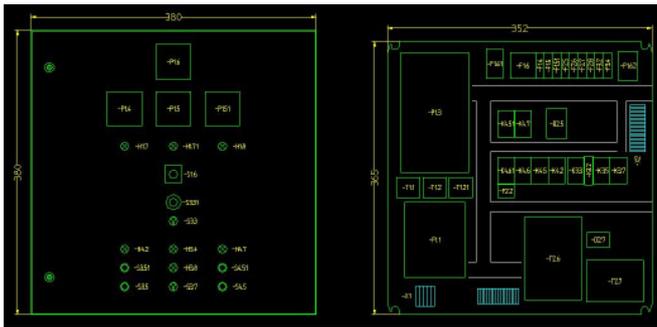
The new search wizards of CADELEC help you to locate immediately a component or a wire even in a very big project.

CADELEC also integrates PLC support features, with automatic functions for numbering, describing and marking inputs/outputs. The package will also import and export PLC input-output list.

The new automatic wire numbering system allows you to select from several numbering algorithms with various options.

Checks

CADELEC offers full checking and reporting functions, for step by step project analysis and documentation. Regardless of the number designers, it will check all cross references throughout the project and detail all errors encountered. It also cross-references all wires at the same potential.



If a user removes a component in a schematic it will be flagged red in the cabinet drawing.

A component which has already been placed in a cabinet is no longer available.

Modular structure

CADELEC 2009 is distributed in five modules, as described below :

Drawing and Analysis Module

The basic module is available together with any other module or with all of them. Within this module, the following functions are available:

- Tracing of one and three phase wires.
- Specify wire voltage rating.
- Automatic computation of device ID's with user-selectable formulas.
- Automatic re-annotation of technical data on components.
- Automatic generation of over 60 reports like parts list, bills of materials, etc.
- Cross-reference analysis with detection of errors such as oversaturated contacts and missing relays; generation of a cross-reference-error list.
- Automatic wire numbering
- Automatic project plotting with user specified custom printout and a pick list for plotting selected pages of the project.
- Management of colors and layers.
- Automatic updating of title boxes; title boxes are fully customizable.

- Links with external databases in xBase format.
- Batch process on library elements.
- Creation and plotting of library slides.
- Printing of component labels.
- Access to user-defined procedures.
- Batch process on project pages.
- With the powerful navigator, searching for contacts and coils belongs to history. With on mouse click, you change between the page where the contact is located to the page where its activating coil is. It works the other way around as well.
- Multiple user networking with various engineers working on the same project at the same time.

Cabinet Module

The Cabinet module adds the following functionalities

- Project costing in advance with a pre-defined bill of material (Estimate).
- Inserting components from the pre-defined bill of material.
- Selecting Cabinets to hold the elements in the project from the Cabinet Library.
- Creating new Cabinet elements.
- Semi-automatic generation of control cabinet layouts.
- On-line consistency checking for components in the cabinets.
- With the navigator you can change now between cabinet layout drawings and schematics. With a mouse click on an element in the cabinet drawing, you change in the schematic drawing where this element is located. The other way around works as well.

Terminal and Cabling Module

- Generation of connection reports (both internal circuit connections and links to external units via terminals plugs or connections).
- Management of terminals, cables and wiring harnesses.
- Using the navigator, you can now change between terminal pinouts and the schematics in order to find a specific terminal. Or you can go the other way around, as well.
- Cable editor.
- Automatic Cable Linker.
- Generation of terminal pinouts drawing.

- Automatic generation of bridges.

PLC module

- Selecting PLC-s from a PLC Library.
- Edit PLC addresses.
- Number PLC-s and related components
- Export-Import PLC input/output List.
- PLC related functions.

System Requirements

- PC with Pentium 4 processor or better
- 1GB RAM or more
- Windows XP or Vista 32
- AutoCAD 2009

CADELEC 2009 is produced and supported by:

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