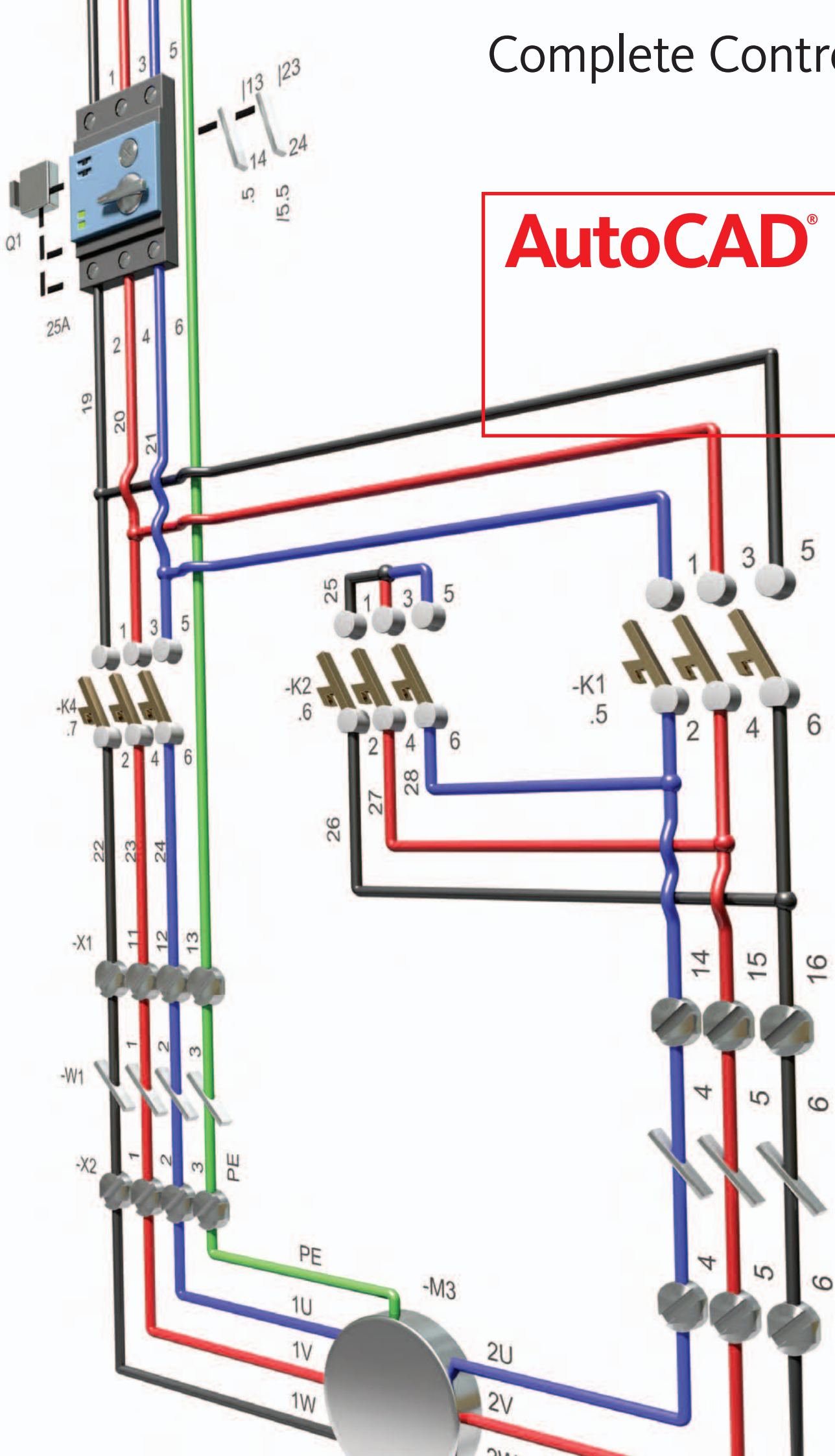


Complete Control.

**AutoCAD®**

ecscad



Autodesk®

# The AutoCAD® ecscad Advantage

To succeed in today's global marketplace, control engineers require a flexible solution that supports the entire electrical control system design and documentation process. AutoCAD® ecscad software enables controls designers to quickly create accurate control system schematics for a broad range of projects from simple motor controls to entire production plants.

## Facing these issues?

- Increasing time and cost pressures require fast and accurate electrical documentation.
- Global competition demands compliance with multiple international standards.
- Documentation errors are causing production delays.
- Design software that forces engineers to change their preferred method of working.
- Designers are unable to easily find and reuse designs.
- Collaboration among multiple workgroups is complicated and error-prone.
- Electrical CAD software does not easily integrate into existing enterprise processes.

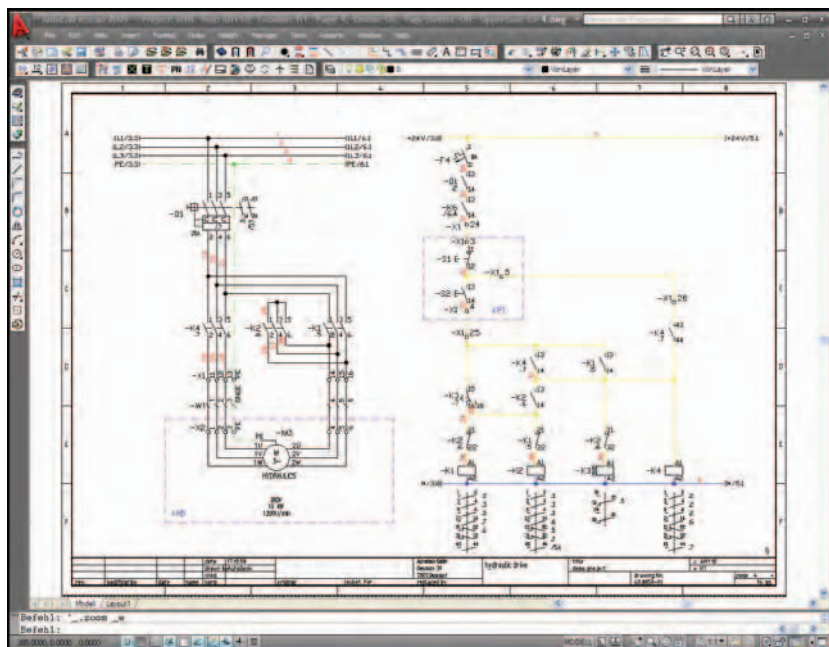
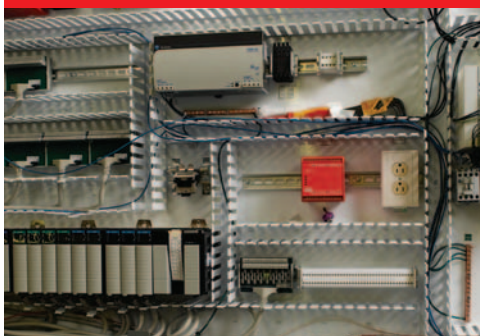
## Take Control

AutoCAD® ecscad is AutoCAD® software for electrical control engineers, purpose-built for the planning and documenting of electro-technical equipment. Automated tasks, extensive electrical symbol libraries, and powerful database editing tools help to reduce errors and produce electrical documentation in a fraction of the time and cost. With flexible database-driven workflows based on industry standards, AutoCAD ecscad gives controls designers the freedom to choose the design approach that best suits their unique situation. With an intuitive and configurable user interface, AutoCAD ecscad is professional, precise, and innovative design software that puts you in control.

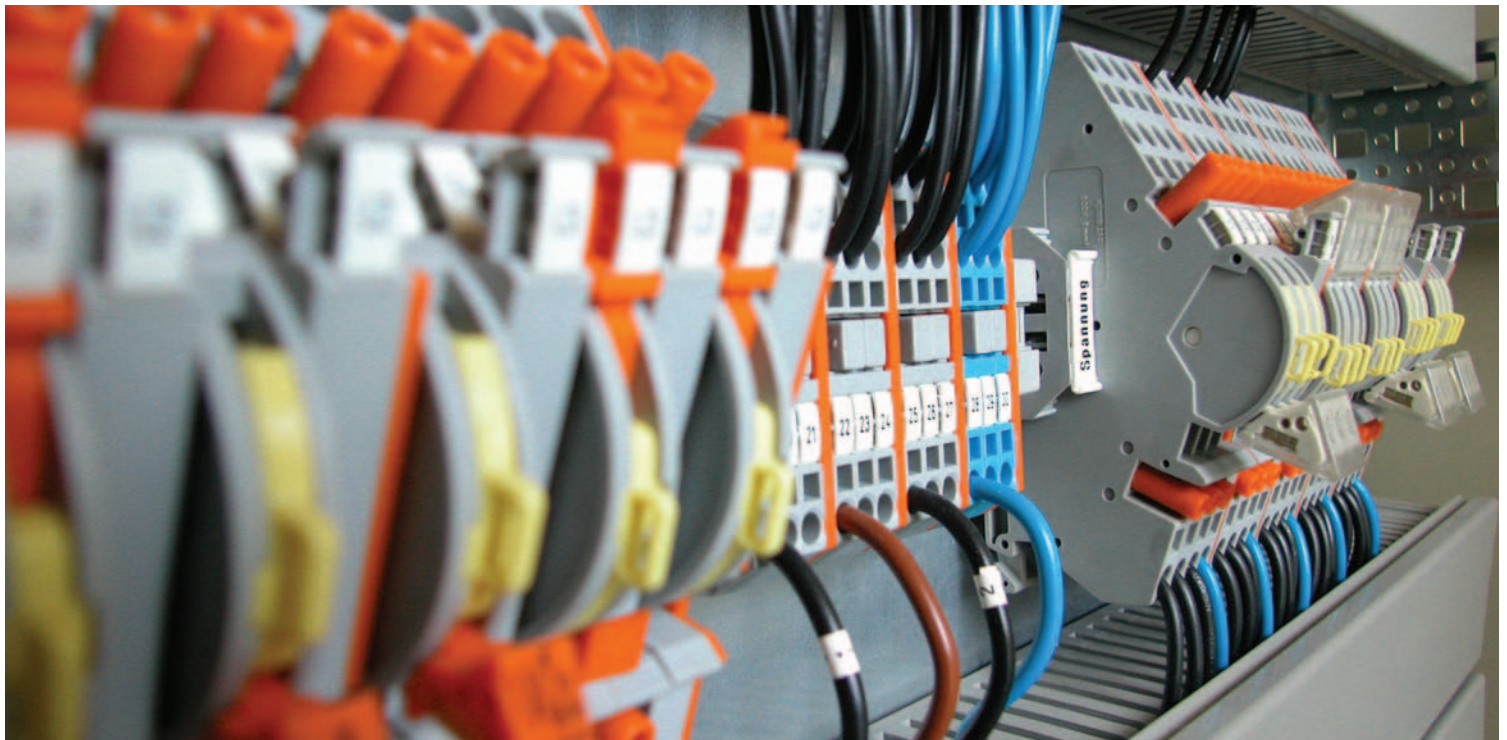
Gain a competitive advantage with AutoCAD ecscad, software that helps manufacturers react quickly to market trends, shorten production cycles, and build better products.

## Increase Productivity

Rising costs and increasing time pressures are driving control engineers to produce electrical designs faster and more accurately than ever before. In order to remain competitive, designers need high performance tools to get the job done. AutoCAD ecscad offers an optimal solution for engineers in all industries, including plant design, industrial machinery, automotive, building automation and power supply. AutoCAD ecscad software contains all the standard functionality AutoCAD plus a comprehensive set of features created specifically to accelerate the creation and modification of electrical schematics. With the automatic creation of documentation from Excel tables, automatic generation of graphical terminal plans, and cabinet layout tools, AutoCAD ecscad greatly reduces the manual efforts involved in producing highly-accurate electrical documentation, leaving engineers more time to create innovative new designs.







### Compete Globally

In addition to supporting the most comprehensive compliance with European electrical standards, AutoCAD eccscad gives companies a competitive advantage in markets worldwide by facilitating sharing of schematics with the entire global enterprise. AutoCAD eccscad not only includes extensive symbol libraries in the IEC standard, but also makes it easy for users to incorporate symbols and components from third-party libraries. Designers can quickly switch between languages or even display up to three languages simultaneously in the interface. Additionally, AutoCAD eccscad includes multiple foreign language databases in the industry standard Microsoft® Access format, that enable easy extraction of data from schematics for translation with full support of Unicode character sets like Chinese or Russian.

### Reduce Errors

Creating electrical controls designs using manual methods can inadvertently introduce errors and design inconsistencies. The automatic error-checking capabilities in AutoCAD eccscad help designers perform real-time diagnostics to catch logical control errors. AutoCAD eccscad can also generate dynamic error lists that enable users to “jump” directly to the corresponding points in the electrical schematics, making it easy to find and correct potential errors. With AutoCAD eccscad, engineers are able to virtually eliminate errors before the build phase of a project.

### Manage and Reuse Design Data

The integrated project management in AutoCAD eccscad allows designers to easily find and reuse existing designs for revisions or the creation of new variations. Users can quickly modify all text information in a project in a comfortable database interface, and complete projects can be automatically produced through Excel tables with the simple push of a button. The data from AutoCAD eccscad projects can also be easily integrated into existing enterprise processes and are fully customizable using VBA (Visual Basic® for Applications). In addition, AutoCAD eccscad includes tightly integrated project management functions, which enable the efficient and secure exchange of design data and promote earlier collaboration between design and manufacturing workgroups.

### Facilitate Collaboration

As part of the Autodesk solution for Digital Prototyping, AutoCAD eccscad enables both electrical and mechanical teams to work collaboratively by making it easy to add valuable electrical controls data to the digital prototypes created in Autodesk® Inventor®. AutoCAD eccscad works in the Autodesk DWG™ format, the most widely used CAD format in the world, facilitating collaboration on 2D and 3D designs with globally distributed design teams, customers, and suppliers. Different workgroups can also manage and track all components of a digital prototype with the free† Autodesk® Design Review software—the all-digital way to review, measure, mark up, and track changes to designs—enabling better reuse of critical design data, management of BOMs, and collaboration with other teams and partners. Additionally, AutoCAD eccscad works online in network environments that enable several users to collaborate on the same project at the same time.

### Complete Control

Want to get unparalleled productivity from your controls design process? Try AutoCAD eccscad today and gain complete control.

## Who needs AutoCAD eccscad?

- Designers of machines and installations that contain electrical control systems
- Companies wishing to compete globally by creating better control system designs
- Designers facing large projects requiring thousands of pages of schematics
- Companies requiring multiple engineers to work simultaneously on the same project in a network environment
- Control Engineers who want to leverage their existing data in DWG or DXF formats
- Technicians who have to design and document the electrical equipment of complex buildings with extensive control and distribution cabinets

For more details, visit  
[www.autodesk.de/autocadecscad](http://www.autodesk.de/autocadecscad).

# Digital Prototyping for the Manufacturing Market

Autodesk is a world-leading supplier of engineering software, providing companies with tools that help them experience their ideas before they are real. By putting powerful Digital Prototyping technology within the reach of mainstream manufacturers, Autodesk is changing the way manufacturers think about their design processes and is helping them create more productive workflows. The Autodesk approach to Digital Prototyping is unique in that it is scalable, attainable, and cost-effective, which allows a broader group of manufacturers to realize the benefits with minimal disruption to existing workflows, and provides the most straightforward path to creating and maintaining a single digital model in a multidisciplinary engineering environment.

## **Learn More or Purchase**

Access specialists worldwide who can provide product expertise, a deep understanding of your industry, and value that extends beyond your software purchase. To purchase AutoCAD® software, contact an Autodesk Premier Solutions Provider or Autodesk Authorized Reseller. To locate the reseller nearest you, visit [www.autodesk.com/reseller](http://www.autodesk.com/reseller).

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<sup>†</sup> Free products are subject to the terms and conditions of the end-user license agreement that accompanies download of the software.