

Electrical Distribution Box Component Layout Tools



Overview

Distribution Board Configurator With this configurator, electricians can have the complete parts list, the assembly and wiring diagram and the corresponding.

Key Takeaways

Several specialized software tools and online platforms allow electricians and designers to plan, visualize, and document electrical distribution box layouts efficiently. **Key Tools for Distribution Box Layouts**



1. **Eaton Distribution Board Configurator** Eaton offers a web-based configurator for residential and small commercial electrical systems. Users can define the system type (apartment, single-family house, or small business), select mounting types, mains systems, and surge protection. The tool automatically generates a parts list, wiring plan, and type plate, ensuring compliance with standards and simplifying documentation for installation .

2. **Electro Planner** Electro Planner is a free online tool for electrical installation design. It allows placing rooms, electrical points, and circuits on a floor plan, automatically selecting breakers (B10, B16, C16), distributing phases, and visualizing the distribution board. The software generates PDF-ready documentation, including circuit lists, power balance, and connection requirements. It supports single-phase and three-phase systems, smart home devices, and libraries from ABB, Schneider Electric, and Legrand .

3. **Schrack Design Software** Schrack Design is a desktop application for planning distribution panels compliant with EN 61439. It provides assembly and wiring diagrams, thermal calculations according to IEC TR 60890, and full documentation. Users can customize pre-designed templates, create macros for repeated configurations, and automatically generate parts lists and reports, including heat calculations .

4. **Zuken E3.panel** E3.panel offers 2D and 3D layout capabilities for electrical panels and switch cabinets. It features intelligent snapping points, clash prevention, and integration with E3.schematic and E3.cable. The software calculates wire lengths, routes cables automatically, and links to wire preparation machines for cutting, stripping, crimping, and marking. Changes in schematics or panel layouts are dynamically synchronized .

5. **Edraw.AI Electrical Design Software** Edraw.AI provides an online platform for creating precise electrical diagrams and distribution board layouts. It includes drag-and-drop symbols, editable templates, and CAD/Visio import capabilities. Users can adjust component dimensions, plot straight lines, and export designs in multiple formats. The tool is cloud-based, supports collaboration, and is suitable for both simple and complex electrical systems .

Choosing the Right Tool

When selecting a tool, consider:

- **Project type:** Residential, commercial, or industrial.
- **Compliance requirements:** EN 61439 or local standards.
- **Visualization needs:** 2D vs. 3D layouts.
- **Documentation:** Automatic generation of parts lists, wiring diagrams, and PDF reports.
- **Integration:** Compatibility with floor plans, schematics, and smart home devices.
- **Cost and accessibility:** Free online tools vs. licensed desktop software. These tools streamline the design process, reduce errors, and ensure that electrical distribution boxes are safe, compliant, and efficiently documented.

Article Content

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Free Distribution Board Design and Visualization

Free online distribution board design and visualization software. Configure your electrical panel with

Free Online Electrical Design Software

Plot your electrical designs to get a digital visual of your circuits and analyze connections. Access easy-to

Electrical Panel Design Software in 3D | E3.panel | Zuken EN

Our electrical panel design software E3.panel allows engineers to layout components inside electrical panel enclosures in both 3D

AI Electrical Panel Design Software | AutoPanel Design

Design professional electrical panels and circuits with AI. Free web-based ECAD tool with 3D visualization, motor starters, PLC

Best Electrical Distribution Design Software (2026)

Compare the Top 10 Electrical Distribution Design Software tools with ranked features and pricing insights, including EPLAN Electric

Tools & Calculators | ABB Electrification U.S.

Layout tool with realistic 3D views, a user-friendly interface, and BIM model downloads. Supports most busway products, including

Top Electrical Panel Design Software for Accurate Designs

Explore the best electrical panel design software with features like 3D modeling, schematic automation, and real-time

Distribution Box and Selection Guide: Internal Structure, Components ...

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars,

Distribution Boards

Distribution boards, often referred to as electrical panels or breaker boxes, serve as the nerve center of any electrical system. Here

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

AutoCAD Electrical

In this session, we'll cover the essentials of panel layout and design, exploring tools and

Cabinet layout

Electrical cabinet layout – Excel based tool Cabinet layout is an Excel workbook created to design the internal

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Free Electrical Design Software with Free Templates

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Electrical Distribution Box Diagrams | PDF | Power Engineering

This document provides a list of components in an electrical distribution box with their names and associated wiring diagrams. It

Electrical Design Software with CAD Tools

Check out SmartDraw's electrical design software. Create electrical schematics with standard electrical symbols and intuitive CAD

How to design an electrical distribution system with

One of the biggest LayoutFAST time-savers for specifiers and electrical engineers is the

Best Electrical Schematic Software: Fast & Easy Electrical Design

How to add custom component data without using the Remarks field Streamline your electrical design process and improve your

Guide To Panel Layout Drawing | Capital X Panel Designer by Siemens

Master panel layout drawing with intuitive tools in Capital X Panel Designer. Save time, enhance accuracy & take your designs to the

What is the Internal Structure of The Distribution Box

Learn about the internal structure of a distribution box, its components, functions, and key types. Understand its role

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Distribution board

A distribution board (also known as a panelboard, circuit breaker panel or box, electric panel, fuse box or

Cable Distribution Box Layout: 10 Industrial Strategies

Optimize your cable distribution box layout for safety and efficiency. Learn industrial best

Main Panel vs Distribution Panel: What is the Difference Between

The following is a list of the main parts that differ from the main panel: Mains Link: The main link ensures that

Complete Guide For Distribution Boxes Types

Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the

Techware - Full-suite industrial engineering solutions

Our innovative distribution systems serve as the primary electrical hub for any industrial infrastructure, dividing power into subsidiary

Unlock Your Essential Distribution Box Drawing

A robust electrical system relies on a safe, organized, and properly designed distribution box. This component, also

Understanding Distribution Boxes: Your Guide to Power Distribution

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Control panel design software

One example of such software is Panel Design Configurator 3.0, for planning and design of electrical distribution

Customization of a complete distribution box

Design and solution development: Design the distribution box according to the customer's needs, including the

The Essential Guide to Understanding Electrical Distribution System ...

Learn about the components and layout of an electrical distribution system diagram, including transformers, circuit breakers, and

A Step-by-Step Guide to Wiring an Electrical Panel Box

A Step-by-Step Guide to Wiring an Electrical Panel Box An electrical panel box, also known as a breaker box or a distribution board,

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

