

Electrical diagram distribution box icon



AI Overview

A distribution box in electrical diagrams is represented by a standardized symbol that indicates a panel housing circuit breakers, switches, and other protective devices.

Overview

In electrical schematics, a distribution box (also called a distribution panel or electrical panel) is depicted using a graphical icon that represents the enclosure containing electrical components such as circuit breakers, fused switches, meters, and control devices. These symbols are used in single-line diagrams, panel schedules, and wiring schematics to simplify complex electrical systems while maintaining clarity for designers, electricians, and engineers.

Common Symbol Features

- Rectangular or square outline:** Represents the physical enclosure of the distribution box.
- Internal symbols:** May include smaller icons for circuit breakers, fuses, meters, or switches to indicate the type and rating of devices inside the panel.
- Labels or annotations:** Often include identifiers for voltage, current rating, or specific circuits served.
- Doors or access indicators:** Some icons show an open or closed door to indicate accessibility or panel status.

Usage in Diagrams

- Single-line diagrams:** The distribution box symbol is used to show the connection point for multiple circuits, illustrating how power is distributed from the main supply to branch circuits.
- Panel schedules:** Symbols are combined with legends to indicate the exact type of breaker or switch, helping ensure proper installation and coordination.
- Control and metering:** Symbols may include power meters, earth leakage breakers, or automatic transfer switches to represent monitoring and protection functions.

Resources for Icons

Free and editable icons are available in PNG, SVG, and vector formats for use in design software or documentation. Professional legends and symbol sets ensure consistent interpretation across electrical drawings, supporting accurate construction and maintenance.

Understanding the distribution box symbol is essential for reading and creating electrical diagrams, ensuring proper load distribution, protection, and safety.

Article Content

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Symbols: distribution board

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