

Size of the switch in the distribution box



Summary of Content

The size of a switch on a distribution box typically depends on the type of circuit breaker, with standard miniature circuit breakers usually 18 mm wide per module, while larger main switches or air switches can be significantly bigger.

Standard Switch Dimensions

For miniature circuit breakers (MCBs) commonly used in residential or small commercial distribution boxes, each switch module is generally 18 mm wide. The height and depth vary depending on the manufacturer, but the width is the standard unit used to calculate the overall box size. Larger main switches or air switches, which control the entire distribution box, are physically bigger to handle higher current ratings. These switches can range from several centimeters to over 10 cm in width, with corresponding height and depth to accommodate the rated current and mechanical components. The exact size depends on the current rating, type of switch (e.g., single-pole, three-pole, or four-pole), and whether it includes additional features like a built-in residual current device.

Distribution Box Sizing Considerations

When designing or selecting a distribution box, the switch size directly affects the box dimensions. For example:

- For a small lighting or low-power box with fewer than 20 switches, the box width is calculated as the sum of the switch widths plus 20 mm on each side, height as switch height plus 40 mm, and depth as maximum switch depth plus 10 mm.
- For larger power boxes or boxes with multiple rows of switches, additional space is required for wiring, busbars, and safe bending radii of incoming lines.

Article Content

Electrical Switch Box Size Guide 2026

Need the right electrical switch box size? Learn standard dimensions, NEC compliance, and volume requirements for 1

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

Below is a simplified internal structure diagram for a typical single-phase AC distribution box using an incoming main

Standard Heights for Electrical Switches

It lists the ideal heights in millimeters from the floor level for items like main switch boards, power points, sockets, distribution boards,

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Distribution Boxes Types - The Complete Guide

A commonly used distribution box contains doorbells, earth leakage devices, timers, or contact breakers. However, the

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Walk This Way by Aerosmith tab. Updated: Jan 19, 2026 Walk This Way written by S. Tyler and J. Perry Toys in the

Distribution Box Guide: Types, Components & Solutions

What is a Distribution Box? A distribution box, or DB box, is a circuit breaker enclosure. It is a vital part and central

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Standard Electrical Enclosure Sizes: Chart, Dimensions & Selection ...

Electrical enclosure sizes are not universal, but most manufacturers follow common size families. This guide explains

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Size determination, installation method and wiring mode of distribution ...

The switch width plus 40mm on each side is the width of the electric box, the height is the switch height plus 40mm, and the depth is

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Main Switch Specifications for DB Design | PDF

The document discusses specifications for electrical distribution boards and main switches. It states that main switches come in

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How to determine the size of distribution box

Of course, the size of the electrical box is not finalized. Consider the actual installation, see the actual wiring diagram

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Size determination, installation method and wiring mode

The switch width plus 40mm on each side is the width of the electric box, the height is the switch height

"Guidelines for Household Distribution Box Specifications and ...

If the distribution box is to be embedded within the wall, the cutout should be approximately 20 millimeters larger than the box's

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