

Dimensions of an 11-position electrical distribution box



AI Overview

An 11-position wall-mounted electrical distribution box typically measures around 600 mm in height, 400 mm in width, and 150–200 mm in depth, depending on manufacturer and internal layout. Standard Size Overview Electrical distribution boxes (DBs) are designed to house multiple circuit breakers or modular devices. For an 11-slot configuration, manufacturers generally follow common wall-mount enclosure families, with external dimensions scaled to accommodate the number of positions while maintaining proper spacing for wiring, heat dissipation, and future expansion. Typical dimensions for an 11-position DB are: Height: ~600 mm Width: ~400 mm Depth: 150–200 mm These dimensions provide sufficient internal volume for wiring, busbars, and breaker installation while complying with NEC and IEC spacing guidelines. Depth is particularly important to ensure proper conductor bending radius and to avoid overcrowding. Additional Considerations Internal Layout: The usable space inside is slightly smaller than external dimensions due to wall thickness, door returns, and mounting hardware. Mounting Type: Most 11-position boxes are wall-mounted, but freestanding options exist for industrial applications, which may have larger footprints. Material and Protection: Boxes are commonly made of sheet metal or high-impact plastic, with IP ratings ranging from IP44 to IP66 for indoor or outdoor use. Future Expansion: Some manufacturers offer modular designs allowing additional slots or breakers to be added without replacing the entire enclosure. Practical Tip When selecting an 11-position DB, always verify the internal width per module (usually ~18 mm per standard breaker) and ensure the total internal volume meets wire-fill requirements. Choosing a slightly deeper or wider box can simplify installation and improve safety, especially if multiple circuits or high-gauge wires are...

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