

Pre-embedded dimensions of a 9-position distribution box

Article Overview

A typical 9-position distribution box has pre-embedded dimensions around 241 x 191 x 126 mm, with a base depth of 67 mm for flush mounting.

Standard Dimensions

- o External dimensions (surface-mounted polystyrene box, OBO model): 241 mm (height) x 191 mm (width) x 126 mm (depth) .
- o Base box depth for flush mounting (metal base, Junon Electrical): 67 mm .
- o Internal mounting: Pre-mounted 35 mm DIN hat profile rail for circuit breakers . These dimensions are typical for indoor electrical distribution boxes designed to house miniature circuit breakers (MCBs) or plastic circuit breakers, with a 3-phase busbar configuration inside . The depth of the embedded portion is critical for flush mounting, ensuring the box sits properly within the wall while leaving the cover accessible.

Installation Considerations

- o Mounting type: Surface-mounted boxes sit on the wall surface, while flush-mounted boxes require embedding the base box into the wall cavity .
- o Material: Boxes can be polystyrene (lightweight, IP66 rated) or metal (cold-rolled steel, typically IP20 for indoor use) .
- o Protection ratings: IP66 for polystyrene surface-mounted boxes, IK07 impact resistance; metal boxes are usually IP20 .
- o Internal layout: Designed to accommodate 9 modular positions for circuit breakers, with pre-installed rails to simplify installation .

Summary

For a 9-position distribution box, the pre-embedded dimensions you should plan for are approximately 241 x 191 x 126 mm for surface-mounted polystyrene models, or a 67 mm depth for flush-mounted metal base boxes. Always verify the specific model's datasheet to ensure compatibility with wall cavities, mounting type, and electrical components.

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