

Model of a single socket in a distribution box



Overview

Distribution Box and Selection Guide: Internal Structure, Components. Below is a simplified internal structure diagram for a typical single-phase AC dist.

Key Takeaways

The Eaton B-Line series single meter socket is a widely used model for single-position installations in residential and commercial distribution boxes. Overview

A single socket in a distribution box is designed to house a utility electrical meter or provide a single connection point for electrical circuits. These sockets are essential for safely distributing power from the main supply to individual circuits while protecting the system from overloads or faults .

Eaton B-Line Series Single Meter Socket

- Type: Single-position, self-contained meter socket
- Amperage Ratings: 100A, 125A, 200A, up to 320A depending on the model
- Mounting Options: Surface mount or flush mount
- Enclosure: NEMA Type 3R, ANSI 61 grey painted finish, 16-gauge galvaneal/galvanized steel
- Design Features: Ringless or ring type, manual link style bypass available for certain models

- Applications: Suitable for both residential and commercial buildings, compatible with overhead or underground utility connections

Additional Considerations

- Material: High-quality steel or thermoplastic enclosures ensure durability and protection from environmental elements
- Compatibility: Ensure the socket matches the utility meter type and amperage requirements
- CAD/BIM Models: Manufacturers like Eaton and Schneider Electric provide downloadable CAD and BIM files for precise design integration

- Safety Features: Includes protective housing for meters, optional bypass, and compliance with utility standards

Resources for Design and Selection

- BIMobject Library: Offers manufacturer-specific electrical outlets and sockets for Revit, SketchUp, Vectorworks, and ArchiCAD, including specifications and certifications
- Schneider Electric CAD Files: Provides free CAD files for distribution box components, including single sockets, for accurate project planning
- Distribution Box Guides: Detailed information on DB box components, materials, and installation practices can help ensure proper integration of single sockets. By selecting a model like the Eaton B-Line single meter socket and using available CAD/BIM resources, designers and electricians can ensure safe, compliant, and efficient installation in any distribution box setup.

Article Content

DIY Wiring a Consumer Unit and Installation

A Sub Circuit can be an electric cable distributing power to few lights, or a socket outlet/s through a MCB device or a Fuse in the

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

