

Article Overview

A distribution box AT-SB is a type of electrical enclosure designed to safely distribute power to multiple circuits while providing protection against overloads, short circuits, and leakage currents.

Overview

A distribution box, also known as a distribution board or DB, receives incoming power from the mains and distributes it to multiple branch circuits. The AT-SB variant typically refers to a compact, modular, or ABS plastic enclosure suitable for residential, commercial, or light industrial applications . These boxes are designed to improve safety, organize wiring, and facilitate maintenance.

Key Components

- o Busbars: Conduct and distribute power to outgoing circuits .
- o Circuit breakers or fuses: Protect wiring and devices from overcurrent .
- o Residual Current Devices (RCD/RCCB/RCBO): Detect leakage currents and prevent electric shocks .
- o Switches/isolators: Allow safe disconnection for maintenance .
- o Surge Protection Devices (SPD): Protect connected equipment from voltage spikes .
- o Earthing connections: Ensure proper grounding for safety and system stability .

Features of AT-SB Distribution Boxes

- o Material: Often made from durable ABS plastic, which is lightweight, corrosion-resistant, and safe for indoor use .
- o Protection Ratings: Can include IP40 to IP55 ratings depending on the model, providing protection against dust and moisture .
- o Installation: Suitable for wall-mounted or flush-mounted setups, with options for modular expansion .
- o Capacity: Available in multiple circuit configurations, commonly ranging from 4 to 24 ways, accommodating single-phase or three-phase systems .

Applications

- o Residential: Distributes power to lighting, sockets, and appliances safely.
- o Commercial: Manages circuits in offices, shops, and small industrial units.
- o Industrial: Can be used for sub-distribution in low-voltage systems, supporting machinery and control panels .

Benefits

Distribution box at-sb

- o Safety: Reduces risk of electrical hazards by isolating circuits and providing protective devices .
 - o Organization: Streamlines wiring, reducing clutter and improving maintenance access .
 - o Flexibility: Modular design allows easy expansion or reconfiguration of circuits .
 - o Durability: ABS construction ensures long-term reliability and resistance to environmental factors .
- In summary, the AT-SB distribution box is a versatile, safe, and efficient solution for managing electrical power distribution across multiple circuits, suitable for a wide range of residential, commercial, and light industrial applications .

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