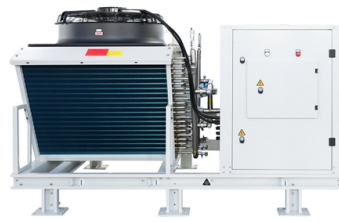


Specifications of a 6-Circuit Household Distribution Box



AI Overview

A 6-circuit household distribution box typically includes a main breaker or main lug, six outgoing circuit breakers, a neutral bus bar, an earth/ground bus bar, and a protective enclosure designed for safe residential power distribution.

Key Components

- Main Breaker or Main Lug:** Controls the overall power supply to the distribution box and provides overcurrent protection for the entire panel ().
- Circuit Breakers (6 Circuits):** Individual MCBs (Miniature Circuit Breakers) protect each outgoing circuit from overloads and short circuits (). Common configurations include single-pole 20A breakers for lighting and outlets, and double-pole breakers for higher loads like water heaters or HVAC units ([6]).
- Residual Current Device (RCCB/RCD):** Optional but recommended for enhanced safety, detecting leakage currents to prevent electric shocks ().
- Bus Bars:** Tin-plated copper or aluminum strips for phase, neutral, and ground connections, ensuring reliable current distribution ([6]).
- Neutral and Ground Bars:** Provide return paths for current and safe grounding, essential for residential safety ().
- Enclosure:** Typically NEMA 1 or IP20 rated for indoor use, made of galvanized steel or durable plastic, protecting internal components from dust, moisture, and impact ().

Electrical Ratings

- Voltage:** Standard residential single-phase AC, usually 120/240V ().
- Current Rating:** Main breaker typically rated 100–125A; individual circuit breakers rated 15–20A for general circuits ().
- Short-Circuit Capacity:** Designed to handle typical residential fault currents, often 10 kA or higher depending on local codes ().

Installation Features

- Mounting:** Surface-mounted or flush-mounted options for wall installation ().
- DIN Rail:** Provides modular mounting for breakers and accessories, allowing easy installation and maintenance ().
- Cable Entries:** Knockouts or pre-drilled holes for incoming and outgoing wiring, ensuring organized and safe c...

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