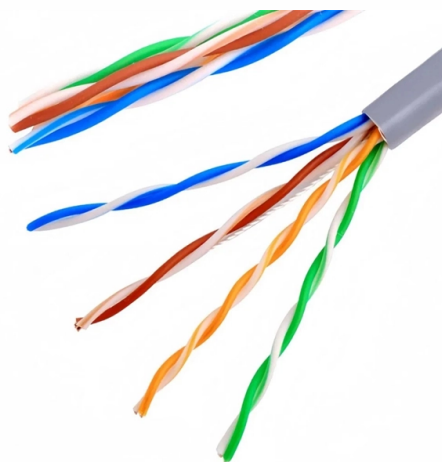


What are the specifications and model of the distribution box



Overview

Distribution Box and Selection Guide: Internal Structure, Components. Learn how to choose a distribution box and understand its internal structure, inclu.

Key Takeaways

Distribution boxes (DB boxes) come in various models such as GGD, GDH, PGL, GCK, GCS, and MNS, each with specific voltage, frequency, and application characteristics. Common Models and Specifications

- Low-Voltage Fixed Switchgear
- GGD Series: Used in power industries like substations and power plants; high breaking capacity, stable performance, AC 50Hz, rated voltage 380V .
- GDH Series: Similar to GGD, with manufacturer-specific parameters; AC 50Hz, low-voltage applications .
- PGL Series: Widely used where stable power supply is required; low-voltage fixed switchgear .
- Low-Voltage Withdrawable Switchgear
- GCK Series: Composed of power distribution center cabinets and motor control centers; AC 60Hz, working voltage ~660V; suitable for motor control and lighting equipment .
- GCS Series: AC 50Hz, rated voltage 400V; used in power plants, oil facilities, high-rise buildings with high power consumption .

- MNS Series: Compact, stable, suitable for small power plants, industrial enterprises, buildings, and hotels; widely used in low-voltage distribution systems .

Key Components

- Circuit Breakers: Protect circuits from overloads and short circuits; can be single- or double-pole .
- Residual Current Circuit Breakers (RCCB): Detect imbalances between phase conductors for enhanced safety .
- Bus Bars: Copper or aluminum strips distributing power within the panel .
- Isolators: Manually operated devices to isolate circuits for maintenance .
- Smart Features: Some DB boxes include energy monitoring units and communication modules for real-time data and remote control .

Types by Installation and Application

- Surface Mounted: Installed directly on walls; suitable for retrofits and industrial environments .
- Flush Mounted: Embedded into walls; common in residential and commercial buildings .
- Pole Mounted: Outdoor use, including street lighting and utility applications .
- Single Phase: Residential or small commercial loads .
- Three Phase: Industrial or large commercial facilities requiring higher power capacity .
- Lighting Distribution Boxes: Dedicated to lighting circuits .
- Power Distribution Boxes: Support sockets, equipment, and heavy machinery .
- Control Distribution Boxes: Integrate relays, contactors, and timers for automation .

Summary

Distribution boxes are essential for safe and organized power distribution across residential, commercial, and industrial settings. Choosing the right model depends on voltage, frequency, load type, and installation environment. Fixed switchgear like GGD, GDH, and PGL is ideal for stable low-voltage applications, while withdrawable switchgear like GCK, GCS, and MNS suits motor control and high-consumption systems. Advanced DB boxes may include smart monitoring and remote control features for enhanced energy management .

Article Content

Distribution Boxes Technical Data

DC Micro Style Distribution Boxes Four-pin, One Signal per Port Cable Connector
Distribution Box Eight-port DC Micro Distribution

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