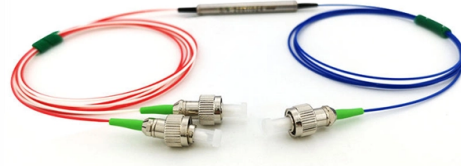


Electric motor distribution box



Article Overview

A motor distribution box is a specialized electrical enclosure that safely distributes power to one or more motors while providing protection and organization for motor circuits.

Function and Purpose

A motor distribution box, also called a motor junction box or DB motor distribution junction box, serves as a central point for distributing electrical power to 1–4 motors or more, depending on the design. It ensures that each motor receives the correct voltage and current while protecting the circuits from overloads, short circuits, and other electrical faults. These boxes are commonly used in industrial, HVAC, and resistive motor applications ().

Components

Motor distribution boxes typically include:

- Motor branch circuit protection: Fuses, MCBs, or disconnect switches to protect individual motor circuits.
- Distribution blocks: For organized wiring and connection of multiple motors.
- Enclosure: Usually non-metallic or metallic, rated for environmental protection (e.g., NEMA 4X for moisture and dust resistance).
- Optional disconnects: Some models include fused or non-fused disconnect switches for maintenance and safety ()....

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