

Distribution Box 380



Article Overview

A 380V distribution box is typically connected using a three-phase, five-wire system with proper grounding and protective devices to safely distribute power to both 380V and 220V loads.

Wiring Configuration

For a 380V three-phase supply, the distribution box generally uses a five-wire system: three-phase lines (L1, L2, L3), a neutral line (N), and a ground line (PE) (green/yellow) for safety. The phase lines are usually color-coded as red, yellow, and blue, while the neutral is light blue. The incoming supply is connected through a main circuit breaker or isolator switch, and the neutral and ground are connected to their respective terminal blocks inside the box (Hielectrics) .

Load Connections

- Three-phase 380V loads (e.g., motors) are connected across all three phases with an additional ground wire. If local control requires, a neutral may also be connected.
- Single-phase 220V loads are connected using one phase, the neutral, and the ground wire. This ensures proper voltage and safety for lighting or smaller appliances .
- Two-phase 380V equipment (like certain welding machines) uses any two phases plus a ground wire. Grounding is recommended even if sometimes omitted in temporary setups .

Protective Devices...

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Product Description Professional Three-Phase Power Distribution for Event Equipment
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High-Quality Power Distribution Box Model YNXL

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What Is a Distribution Box?

What to Look for When Choosing a Distribution Box If you're going to buy a distribution box, there are several things

Contact Us

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