

RIVO MULTITRADE OPTICAL SYSTEMS

Wiring of the original distribution box air switch



Overview

The document provides installation instructions for a standard automotive air conditioning drier with a trinary switch.

Key Takeaways

To wire an air switch in a distribution box, connect the incoming phase and neutral to the switch's input terminals, then connect the output terminals to the respective branch circuits, ensuring proper insulation, neat wiring, and adherence to safety standards.

Before starting, ensure the main power supply is isolated and the distribution box is installed in a dry, ventilated area with enough space for operation . Verify that the neutral, earth, and live lines are separated on the bus bar and properly insulated . Use personal protective equipment and follow the five safety rules of electrical engineering: isolate, secure against reclosing, verify safe isolation, earth and short-circuit, and cover adjacent live parts .

Wiring Procedure

- Incoming Supply Connection: Connect the phase (live) and neutral wires from the main supply to the input terminals of the air switch . Ensure the wires are long enough to avoid joints inside the box.

- **Output to Branch Circuits:** Connect the output terminals of the air switch to the respective MCBs or branch circuits. For single-phase setups, a double-pole MCB is typically used as the main switch, while single-pole MCBs handle individual loads .
- **Wire Routing:** Route wires neatly, keeping incoming wires on the left and outgoing wires on the right. Use plastic ties to bind wires at uniform spacing to prevent tangling and maintain a clean layout .
- **Labeling:** Clearly mark each circuit to identify its load, voltage, or AC/DC type. This helps in maintenance and troubleshooting .
- **Tightening and Inspection:** Ensure all terminal screws are tightened securely. After wiring, perform a safety inspection to check for short circuits, loose connections, or overload risks .

Additional Tips

- Avoid installing the distribution box too high; a typical height is around 1.8 meters for easy operation .
- Ensure the installation pedestal of the air switch is clean and unobstructed.
- Keep the distribution box free of debris after installation to prevent fire hazards .
- For medium-voltage air-insulated switchgear like Siemens NXAIR, follow manufacturer-specific torque specifications and operational checks before commissioning . By following these steps, the air switch will be safely and efficiently integrated into the distribution box, providing reliable protection and control for your electrical circuits.

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Overview And Purpose The primary function of an air conditioning distribution box is to receive incoming electrical

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