

Distribution box start stop signal



Article Overview

Start/stop signals in distribution boxes are implemented using pushbuttons, signal lamps, and control circuits to safely initiate or terminate equipment operation.

Components Involved

Pushbuttons: Start/stop circuits typically use two types of pushbuttons: a Start button (Normally Open, NO) to initiate operation and a Stop button (Normally Closed, NC) to terminate operation. These buttons serve as the primary user interface for controlling machinery or equipment within a distribution box ().

Signal Lamps: Integrated signal lamps provide visual feedback on the equipment status. For example, a green lamp may indicate that the system is running, while a red lamp signals a stop condition or fault ().

Contactors and Relays: Contactors handle the main power flow to the equipment. They include main contacts for load current, auxiliary contacts for control and signaling, and a coil that energizes the contacts when the start button is pressed. Overload relays protect the circuit from excessive current ().

Working Principle

- **Initial State:** The main contactor is de-energized, the Stop button is closed, and the Start button is open. The system is idle.
- **Starting the Circuit:** Pressing the Start button energizes the contactor coil, closing the main contacts and supplying power to the load. Auxiliary contacts create a seal-in circuit to maintain operation after the Start button is released ().
- **Maintaining Operation:** The seal-in circuit keeps the contactor energized, ensuring continuous power to the equipment.
- **Stopping the Circuit:** Pressing the Stop button breaks the control circuit, de-energi...

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Contact Us

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