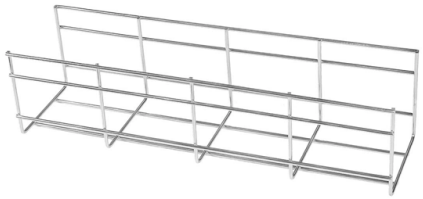
Wiring of the power distribution box for the batching machine at the construction site



Overview

In this video we are showing a complete Construction Site Electrical Distribution Panel setup. This includes MCCB, MCB, DB boxes, cable management, earthing and load distribution for...

Key Takeaways

The power distribution box for a batching machine should be wired to safely supply all motors, control circuits, and sensors, with proper earthing, protection devices, and cable management.

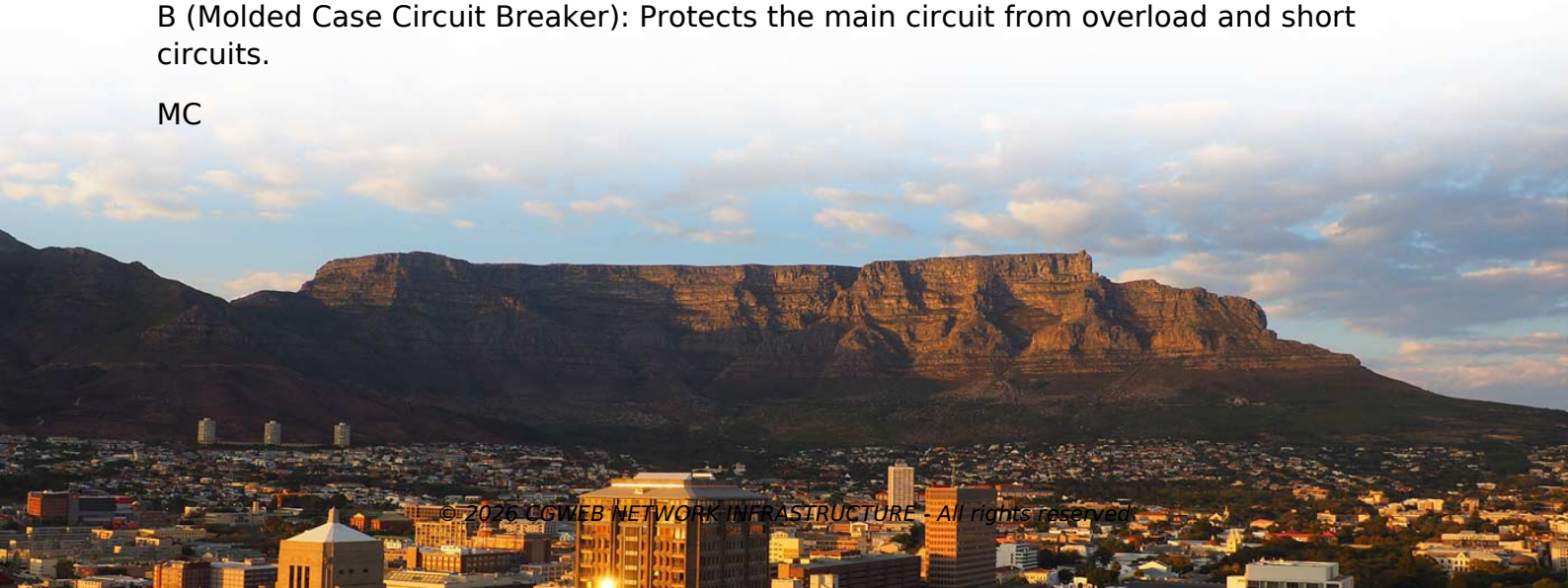
Main Components and Layout

A typical construction site power distribution box for a batching machine includes: Main Power Switch: Controls the main supply and allows emergency power cut-off.

MCC

B (Molded Case Circuit Breaker): Protects the main circuit from overload and short circuits.

MC



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Bs (Miniature Circuit Breakers): Protect individual circuits for motors, pumps, and lighting. Contactor and Relays: Control the operation of motors and other equipment. Terminal Blocks: Facilitate connections between the distribution box and motors or sensors.

Earth Leakage Circuit Breakers (RCDs): Ensure personnel safety by detecting leakage currents. Cable Management: Proper routing, dressing, and labeling of cables to prevent interference and hazards.

Wiring Guidelines

Power Supply Connection: Connect the incoming supply to the main distribution cabinet, ensuring voltage and frequency match the batching machine requirements. Motor Connections: Motors below 7. 5 kW: Power line runs from the AC contactor to a terminal block, then to the motor.

Motors 7. 5 kW or above: Direct connection from the contactor to the motor terminal, with crimped and tinned wire ends. Control Circuit Wiring: Connect control buttons, switches, and relays according to the design to ensure correct operation.

Sensor Integration: Connect pressure, flow, and temperature sensors to the control system, calibrate, and test for accuracy. Earthing: All metallic parts and cable sheaths must be properly grounded to prevent electric shock and ensure stable operation. Cable Selection: Use flexible rubber cables or H07RN-F cables suitable for construction site conditions; avoid running signal lines near high-current loops.

Protection and Safety: Ensure IP55-rated enclosures to protect against dust and water, and install RCDs with appropriate trip settings.

Installation Tips

Follow the electrical system design and construction drawings carefully. Maintain clear labeling and documentation of all connections for maintenance and troubleshooting. Test all circuits, motors, and sensors before full operation to ensure reliability and safety.

Keep temporary power supply cables secure, either underground or overhead, with proper mechanical protection. By following these guidelines, the power distribution box will safely and efficiently supply the batching machine, ensuring reliable operation and compliance with construction site electrical standards.

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Construction Site Power Connection

This includes a connection point (for example via a site connection box), the main distribution with protection and metering devices, sub-distributions, cables, plug systems, as well as

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