

Article Overview

Syrian explosion-proof distribution boxes are designed for hazardous environments, offering high protection, robust construction, and compliance with international safety standards.

Overview

Explosion-proof distribution boxes in Syria, such as the Bahra Busbar Distribution Box, provide reliable power distribution in industrial and commercial facilities. These boxes are typically IP54-rated, ensuring protection against dust and water ingress, and are equipped with MCCB protection ranging from 100A to 400A. They feature tin-plated copper busbars for efficient conductivity and multiple outlets per phase, making them suitable for powering sub-distribution boards or large equipment loads from a single point (Bahra Electric) .

Construction and Materials

High-quality explosion-proof boxes are constructed from 304 or 316L stainless steel or Q235 steel, providing durability and resistance to corrosion in harsh environments. Specialized hinge structures prevent damage to flameproof joints during operation, extending the service life of the enclosure (HRMD96 Series) . Some models also include fiberglass-reinforced membranes for waterproofing and damp-proofing, compliant with TS EN 13969 standards .

Protection Ratings and Standards

Syrian explosion-proof distribution boxes comply with international standards such as IEC 61439-1&2, ATEX, and IECEx. They are designed for hazardous atmospheres, including gas and combustible dust, and can achieve protection classes like Ex d IIC T6...T41 for gas and Ex tb IIIC T80°C...T130°C for dust (HRMD96 Series) . The boxes often feature IP66 protection for maximum ingress resistance and are suitable for Zone 1 and Zone 2 hazardous areas (CZ Electric) .

Features

- o Three-phase configuration with multiple outlets per phase for flexible distribution
- o MCCB protection for current ratings from 100A to 400A
- o Flameproof and explosion-proof enclosures (Ex d, Ex e, Ex i, Ex p) for various hazardous applications
- o Long service life with corrosion-resistant materials and robust mechanical design
- o Customizable configurations to meet specific industrial requirements

Applications

These distribution boxes are widely used in chemical and petrochemical plants, refineries, offshore platforms, and other industrial facilities where hazardous atmospheres are present. They are suitable for power distribution, monitoring, control systems, and motor starting applications .

Summary

Syrian explosion-proof distribution boxes combine robust construction, high protection ratings, and international compliance to ensure safe and reliable power distribution in hazardous environments. Products like the Bahra Busbar Distribution Box offer practical solutions for industrial power management, while international models provide advanced flameproof and dust-proof features for critical applications. These boxes are essential for maintaining safety, operational efficiency, and regulatory compliance in high-risk areas.

The Explosion-proof Distribution Box helps protect power systems in hazardous areas with flammable gases or dust. These

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Explosion proof Distribution Boxes HLDP03-M Malaysia Zone 1 and Zone 2 Zone 21 and Zone 22 Meet the

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