

Explosion-proof distribution box carbon steel specifications and models



Overview

BX53-IV Explosion-Proof Distribution Box operates to safely distribute electrical power in risky areas, eliminating ignition threats.

Key Takeaways

Common carbon steel explosion-proof distribution boxes include BXM, SEM(D), and HRMD92 series, with model designations reflecting material, protection type, voltage, and installation method. Overview of Model Designations

Explosion-proof distribution boxes are typically designated using a combination of letters and numbers that indicate series, material, protection type, rated current, input/output configuration, and installation style. Carbon steel is a common material for these enclosures due to its strength and durability in hazardous environments .

Common Series and Their Features

- BXM (D) Series: Designed for hazardous areas, combining flameproof (Ex d) and increased safety (Ex e) protection. Suitable for oil & gas, chemical plants, and dust-prone environments. Supports flexible internal configurations including circuit breakers, relays, and PLC systems .
- SEM (D)/8061 Series: Carbon steel or stainless steel construction with anti-corrosion coatings (WF2-rated). Rated for Zone 1/2 gas and Zone 21/22 dust environments. Features include 630A main circuits, 250A branch circuits, surge protection, tamper-proof handles, and IP66 ingress protection .

- HRMD92 Series: Flameproof stainless steel enclosures (Ex d IIB+H2) for feed distribution, motor control, and terminal boxes. Can be customized for multi-site control and various electrical components .

Interpreting Model Codes

Model designations often follow a structured format:

- Series Identifier: e.g., BXM, SEM(D), HRMD92.
- Material/Construction: Carbon steel or stainless steel, sometimes indicated by a suffix like (D) for dust-proof.
- Rated Current / Short-Time Withstand Current: e.g., 250/10 indicates 250A rated current and 10kA short-time withstand.
- Input/Output Configuration: Single-phase, three-phase, or mixed input; number of circuits for outlets.
- Protection Level / Main Switch Type: e.g., 1/IP30 for single-phase main switch with IP30 protection.
- Installation Type: Surface-mounted, concealed, or wall/pole-mounted. For example, SEM(D)/8061 indicates a carbon steel explosion-proof panel designed for hazardous zones, with specific electrical ratings and dust/gas protection compliance . Similarly, BXM(D)58 identifies a BXM series distribution box with dust protection and internal configuration options .

Applications

These boxes are widely used in:

- Oil & gas platforms and refineries
- Chemical plants and hazardous storage areas
- Marine vessels and LNG carriers
- Industrial sites with explosive dust or gas atmospheres

Certification and Standards

Explosion-proof distribution boxes are certified according to Ex db/eb IIC T6 Gb & Ex tb IIIC T80°C Db standards, ensuring safe operation in Zones 1, 2, 21, and 22 .

IP66-rated enclosures provide protection against dust and water ingress.

Summary

When selecting a carbon steel explosion-proof distribution box, the model designation provides critical information about the series, material, protection type, electrical ratings, and installation method. Common series include BXM, SEM(D), and HRMD92, each suitable for specific hazardous environments and customizable to meet industrial requirements .

Article Content

Explosion-Proof Distribution Box Buying Guide 2026: Specs, Variants ...

Explosion-Proof Distribution Box Buying Guide 2026: Specs, Variants, and explains key specifications, selection

Distribution Boxes HRMD96 Series Explosion-proof Distribution

·Equipped with specialized hinge structure, which can prevent the flameproof joints from damage when opening and closing the box,

Explosion-Proof Distribution Box BX53-IV | Product Center

BX53-IV Explosion-Proof Distribution Box operates to safely distribute electrical power in risky areas, eliminating ignition threats.

Model And Specification Of Explosion-Proof Distribution Box

Explosion-proof lighting distribution boxes and cabinets come in a variety of models. They vary in terms of materials,

BXM(D)58 Explosion-Proof Distribution Box for Hazardous Areas

The BXM (D)58 series explosion-proof distribution box is designed for safe and reliable power and lighting distribution in hazardous

BXM (D)51 Series Explosion proof Distribution Boxes Lighting

Explosion proof Distribution Boxes for Lighting or Power . Modular enclosures with optional components.

Explosion Proof Distribution Box & Electrical Enclosures

Choose our explosion-proof solutions, choose safety. Durable Hexlon Explosion Proof Distribution Boxes and Electrical Enclosures,

Explosion-proof Distribution Box | BXM (D)51 – DDY GROUP CO.,LTD.

Choose the BXM (D)51 for reliable performance in hazardous areas. With the box in place, your site gains a focused safety solution

SEP Series Pressurized Explosion-Proof Distribution Cabinet

Constructed from durable stainless steel or powder-coated carbon steel, these robust enclosures offer excellent resistance to

BXM (D)8050 Explosion proof Distribution Boxes

Warom Explosion proof Distribution Boxes. Modular GRP construction fitted with a variety of optional

Terminal and Junction Boxes (Ex d) | Explosion Protection

With their rugged construction and well-thought-out design, Pepperl+Fuchs Ex d terminal boxes and junction boxes simplify both

Explosion-Proof Distribution Box BX53-III | Product Center

BX53-III Explosion-Proof Distribution Box, designed for hazardous environments, regulates power safely to

Explosion Proof Junction Boxes | Proven ATEX | 2M

Explosion proof junction boxes provide safe, certified enclosures for wiring connections, terminal blocks,

Bxm (D) 220/380V 60-250A Explosion-Proof Lighting

Bxm (D) 220/380V 60-250A Explosion-Proof Lighting (Power) Distribution Box
Explosion-Proof Power

BXM (D)81 Explosion proof Distribution Boxes Lighting or Power

BXM (D)81 Explosion proof Distribution Boxes Lighting or Power Explosion protection to -CENELEC -IEC -NEC Can be used in Zone

Explosion Proof Enclosures for Hazardous Zones & NEMA Ratings

Available Ratings For Different Designs of Explosion Proof Enclosures Every Explosion Proof Enclosure, intrinsically safe barrier,

Crouse-Hinds series EJB Explosionproof Enclosures catalog

ISpacing dimensions for Group B boxes are based on use of EYS11-EYS101 sealing fitting in conduit. Conduit seals are required in

Exd Iic Explosion Proof and Anti-Corrosion Distribution Box 8 Holes ...

1. The shell is made of aluminum alloy low pressure casting, and the surface of low carbon steel is sprayed with high-voltage

Explosion-Proof Distribution Box BX53-IV | Product Center

BX53-IV Explosion-Proof Distribution Box operates to safely distribute electrical power in risky areas, eliminating ignition threats.

atlas machine

Distribution Boxes HRMD92 Series Explosion-proof Distribution Panels o oooaa
Catalogue number logic HRMD 92 - D/D/C] Rated

HRMD91 Explosion proof Distribution Box (Ex d IIB+H2)

HRMD91 Explosion proof Distribution Box Explosion protection to - IEC - CENELEC -
NEC Can be used in Zone 1 and Zone 2

CE-TEK

Stainless Steel, Mild Steel, GRP, ABS, Polycarbonate and die-cast Aluminium Available
as: Empty Enclosures, Junction Boxes,

China Explosion-proof Distribution Boxes Suppliers

Explosion-proof distribution boxes and cabinets play a critical role in maintaining
safety in hazardous environments. By

Custom ATEX & Explosion-Proof Enclosures | Zone 1/2 & Class I Div 1 ...

Weimiao provides project-based ATEX & IECEx explosion-proof enclosures for
hazardous areas. Custom enclosures for oil, gas,

Explosion-Proof Electrical Distribution Boxes: Applications in ...

Explosion-proof electrical distribution boxes can be categorized into three primary
types: flameproof, gas-tight, and pressurized

Explosion proof distribution box standards and

Consequences: lighting explosion-proof distribution box (board) without inspection,
after installation, often

R. STAHL | EXpressure | Enclosure technology | Ex-cabinets

With EXpressure, hazardous explosion pressure resulting from an explosion escapes
safely, controlled by the patented grid system.

Top Content on LinkedIn

Explore top LinkedIn content from members on a range of professional topics.

HAZARDOUS & GENERAL PURPOSE

The explosion proof enclosure series is UL/ cUL Classified and is constructed from
316L cast stainless steel and is available in sizes

Explosion-Proof Distribution Box BX53-I | Products

BX53-I Explosion-Proof Distribution Box manages and distributes power safely in
hazardous areas, mitigating ignition risks.

Terminal and Junction Boxes (Ex d) | Explosion Protection

With their rugged construction and well-thought-out design, Pepperl+Fuchs Ex d terminal boxes and junction boxes simplify both

Explosion-Proof Distribution Box BX53-III | Product Center

BX53-III Explosion-Proof Distribution Box, designed for hazardous environments, regulates power safely to

Explosion Proof Junction Boxes | Proven ATEX | 2M

Explosion proof junction boxes provide safe, certified enclosures for wiring connections, terminal blocks,

Bxm (D) 220/380V 60-250A Explosion-Proof Lighting

Bxm (D) 220/380V 60-250A Explosion-Proof Lighting (Power) Distribution Box
Explosion-Proof Power

BXM (D)81 Explosion proof Distribution Boxes Lighting or Power

BXM (D)81 Explosion proof Distribution Boxes Lighting or Power Explosion protection to -CENELEC -IEC -NEC Can be used in Zone

Explosion Proof Enclosures for Hazardous Zones & NEMA Ratings

Available Ratings For Different Designs of Explosion Proof Enclosures Every Explosion Proof Enclosure, intrinsically safe barrier,

Global Explosion-Proof Distribution Box Market Size, Growth Trends ...

As global safety standards become more harmonized, cross-border trade in explosion-proof electrical equipment will

Robust and flexible Ex e terminal boxes made from stainless steel

These "increased safety" (Ex e) terminal boxes are made from brush finished stainless steel (1.4301 (AISI 304) or 1.4404 (AISI

Stainless Steel Explosion-Proof Corrosion-Resistant

BX52 Stainless Steel Explosion-Proof Corrosion-Resistant Distribution Box safely distributes and controls

Explosion-proof Electrical Distribution Box

Explosion-proof electrical distribution boxes are specialized enclosures designed to safely contain electrical components in

Crouse-Hinds series EJB Explosionproof Enclosures catalog

Spacing dimensions for Group B boxes are based on use of EYS11-EYS101 sealing fitting in conduit. Conduit seals are required in

Exd Iic Explosion Proof and Anti-Corrosion Distribution Box 8 Holes ...

1. The shell is made of aluminum alloy low pressure casting, and the surface of low carbon steel is sprayed with high-voltage

Explosion-Proof Distribution Box BX53-IV | Product Center

BX53-IV Explosion-Proof Distribution Box operates to safely distribute electrical power in risky areas, eliminating ignition threats.

atlas machine

Distribution Boxes HRMD92 Series Explosion-proof Distribution Panels o o o o a a
Catalogue number logic HRMD 92 - D/D/C] Rated

Explosion-Proof Distribution Box Buying Guide 2026: Specs, Variants ...

Explosion-Proof Distribution Box Buying Guide 2026: Specs, Variants, and explains key specifications, selection

Distribution Boxes HRMD96 Series Explosion-proof Distribution

·Equipped with specialized hinge structure, which can prevent the flameproof joints from damage when opening and closing the box,

Explosion-Proof Distribution Box BX53-IV | Product Center

BX53-IV Explosion-Proof Distribution Box operates to safely distribute electrical power in risky areas, eliminating ignition threats.

Model And Specification Of Explosion-Proof Distribution Box

Explosion-proof lighting distribution boxes and cabinets come in a variety of models. They vary in terms of materials,

BXM(D)58 Explosion-Proof Distribution Box for Hazardous Areas

The BXM (D)58 series explosion-proof distribution box is designed for safe and reliable power and lighting distribution in hazardous

BXM (D)51 Series Explosion proof Distribution Boxes Lighting

Explosion proof Distribution Boxes for Lighting or Power . Modular enclosures with optional components.

Explosion Proof Distribution Box & Electrical Enclosures

Choose our explosion-proof solutions, choose safety. Durable Hexlon Explosion Proof Distribution Boxes and Electrical Enclosures,

Explosion-proof Distribution Box | BXM (D)51 – DDY GROUP CO.,LTD.

Choose the BXM (D)51 for reliable performance in hazardous areas. With the box in place, your site gains a focused safety solution

SEP Series Pressurized Explosion-Proof Distribution Cabinet

Constructed from durable stainless steel or powder-coated carbon steel, these robust enclosures offer excellent resistance to

BXM (D)8050 Explosion proof Distribution Boxes

Warom Explosion proof Distribution Boxes. Modular GRP construction fitted with a variety of optional

Explosion-Proof Distribution Box Buying Guide 2026: Specs, Variants ...

Explosion-Proof Distribution Box Buying Guide 2026: Specs, Variants, and explains key specifications, selection

Distribution Boxes HRMD96 Series Explosion-proof Distribution

·Equipped with specialized hinge structure, which can prevent the flameproof joints from damage when opening and closing the box,

Explosion-Proof Distribution Box BX53-IV | Product Center

BX53-IV Explosion-Proof Distribution Box operates to safely distribute electrical power in risky areas, eliminating ignition threats.

Model And Specification Of Explosion-Proof Distribution Box

Explosion-proof lighting distribution boxes and cabinets come in a variety of models. They vary in terms of materials,

BXM(D)58 Explosion-Proof Distribution Box for Hazardous Areas

The BXM (D)58 series explosion-proof distribution box is designed for safe and reliable power and lighting distribution in hazardous

BXM (D)51 Series Explosion proof Distribution Boxes Lighting

Explosion proof Distribution Boxes for Lighting or Power . Modular enclosures with optional components.

Explosion Proof Distribution Box & Electrical Enclosures

Choose our explosion-proof solutions, choose safety. Durable Hexlon Explosion Proof Distribution Boxes and Electrical Enclosures,

Explosion-proof Distribution Box | BXM (D)51 – DDY GROUP CO.,LTD.

Choose the BXM (D)51 for reliable performance in hazardous areas. With the box in place, your site gains a focused safety solution

SEP Series Pressurized Explosion-Proof Distribution Cabinet

Constructed from durable stainless steel or powder-coated carbon steel, these robust enclosures offer excellent resistance to

BXM (D)8050 Explosion proof Distribution Boxes

Warom Explosion proof Distribution Boxes. Modular GRP construction fitted with a variety of optional

Contact Us

Continue your research online:

Website: <https://coetzerinvestments.co.za>

Technical inquiry: <https://coetzerinvestments.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

