

Fire protection distribution box model specifications and dimensions

Article Overview

Fireproof distribution boxes are available in various models with specific fire resistance ratings, materials, and dimensions to ensure safe electrical distribution and compliance with fire safety standards.

Fire Protection Models

o KM FIRE Flameproof Switchboard Cabinets

- o Types: Free-standing, surface-mounted, in-wall boxes
- o Fire Ratings: Circuit integrity P-R classified, EI-rated for preventing fire spread
- o Smoke Tightness: Sa/S200 to prevent cold and hot smoke penetration
- o Material: High-strength steel with fireproof coatings
- o Customization: Configurator available for tailored dimensions and internal layout

o ABB Fire Protection Enclosures

- o Fire Resistance: F30/F90, I30/I90, E30/E90 according to DIN 4102
- o Mounting: Wall (flush/surface) and floor-standing
- o Features: Fireproof materials, ventilation channels with automatic closure during fire, optional fire protection doors
- o Interior Protection: Maintains functionality of electrical components during fire

o BTB Electric Metal and Plastic Distribution Boxes

- o Material: Q195 cold-rolled steel (metal) or ABS/PC with metal structure (plastic)
- o Protection Degree: IP30 for indoor applications
- o Standards: IEC 60439-3 compliant
- o Mounting: Surface-mounted or flush-mounted
- o Capacity: 6-54 modular units, internal terminal blocks for neutral and protective grounding

o Fire Protection Junction Boxes (M-BOX and L-BOX)

- o Material: Polycarbonate, halogen-free
- o Fire Ratings: E30-E90, maintaining electrical function during fire
- o Protection Degree: IP65
- o Dimensions:
 - o M-BOX: 136x136x67 mm
 - o L-BOX: 140x190x86 mm
- o Configurations: Horizontal or oblique connector orientation, varying number of terminal blocks and connectors
- o Temperature Range: -25°C to 55°C

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- o Max Cross-Section: 4-16 mm² depending on model
- o TOP Series Distribution Boxes
- o Models: TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP-PF, TOP-S
- o Ways: 1-way to 36-ways
- o Dimensions: Length, width, and height vary by model and number of ways
- o Mounting: Surface or flush-mounted
- o Applications: Residential, commercial, and industrial low-voltage installations

Key Specifications to Consider

- o Fire Resistance: Ensure the box meets required fire duration (E30/E60/E90) and smoke tightness standards.
- o Material: Steel for high mechanical durability or polycarbonate for lightweight, halogen-free options.
- o Protection Degree: IP30 for indoor, IP65 for dust and water protection.
- o Mounting Type: Surface-mounted, flush-mounted, or free-standing depending on installation site.
- o Internal Layout: Number of terminal blocks, connector orientation, and modular unit capacity.
- o Temperature Range: Typically -25°C to 55°C for polycarbonate boxes. These fireproof distribution boxes are designed to maintain electrical functionality during fire, prevent fire and smoke spread, and comply with international standards for low-voltage switchgear and controlgear assemblies. Selecting the appropriate model depends on installation environment, fire rating requirements, and electrical load capacity.

Fire rated Enclosures Available in aluminium or stainless steel, these enclosures are fully flame retardant and offer incredible

Metal Distribution Box Features Continuously welded seams Foam-in-place seamless gasket 120-degree opening heavy-duty

TECHNICAL SPECIFICATION FOR LT DISTRIBUTION BOX VOL-II(TS) E12-IX- LT DB Page-2 of 9
L.T. DISTRIBUTION BOX FOR

Fire protection junction boxes In the event of a fire, only absolutely reliable products prevent the spread of fire and guarantee safe

This document provides specifications for various types of plastic distribution boxes, including their

In designing the distribution board and power cabinet, ABB drew upon its wealth of experience with low-voltage switchgear and

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Our distribution boxes are perfect for industrial environments, catering to automation, robotics, and processing facilities. They provide

The fire protection junction M-BOX is designed for connecting and/or branching cables of installations

The fireproof wiring box is designed for connecting and/or branching cables of installations which guarantee continuous operation

Mirage sub-main distribution boards have been designed for easy handling and quick, simple installation

To meet diverse installation requirements, a variety of enclosure dimensions, terminals, and cable gland options are available. The

Complete specification guide for outdoor electrical distribution boxes covering NEC Article

Explore our curated selection of waterproof distribution box models from the AT and HT series. Each

View More Engineered with confidence, all Victaulic fire protection systems and products are designed and manufactured by

The DB4 Series Waterproof Distribution Box is designed to be waterproof, dustproof, and UV resistant with an IP65 protection level.

The range of fire protection installation boxes includes a wide range of solutions with various designs and purposes. Here you will

Web: <https://kremgroup.co.za>

