

Article Overview

A fire protection module in a distribution box is designed to maintain electrical continuity and prevent fire propagation by using fire-resistant materials and specialized construction.

Purpose and Function

The fire protection module ensures that cables and electrical connections continue to operate safely during a fire, minimizing the risk of short circuits, fire spread, and equipment damage. It is particularly important in critical installations where continuous operation is required, such as industrial plants, public buildings, and emergency systems .

Construction and Materials

These modules are typically made from fireproof or high-temperature-resistant materials, such as halogen-free thermoplastics combined with ceramic connection terminals. The ceramic terminals provide mechanical and electrical stability under high temperatures, while the housing prevents toxic gas emission in case of fire . The enclosures may also include ventilation systems that automatically close during a fire to prevent flame and smoke ingress .

Standards and Ratings

Fire protection modules are tested according to standards like DIN 4102, which define fire resistance durations (e.g., F30/F90 for 30 or 90 minutes). They are classified for interior fire protection (I30/I90) and exterior fire protection (E30/E90), ensuring that both the internal components and the enclosure itself can withstand fire for a specified period while maintaining functionality .

Design Features

- o Continuous operation: Modules allow branching and connection of cables without interrupting power supply during fire conditions .
- o IP protection: Many junction boxes have high protection ratings (e.g., IP66) to prevent dust and water ingress .
- o Flexible cable entry: Pre-mounted elastic seals adjust to cable diameters, maintaining a secure and fire-resistant seal .
- o Mounting options: Modules can be surface-mounted or integrated into cable support systems, ensuring accessibility and safety .

Benefits

Fire Protection Distribution Box Module

Using a fire protection module in a distribution box reduces the risk of fire propagation, protects personnel and property, and ensures critical systems remain operational during emergencies. It is an essential component in modern electrical safety design, particularly in high-risk or high-occupancy environments .

Modular distribution block with staggered bars 100 A - external output - 12 connections/bar - 8 modules
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