

Specifications of Thin Plate Distribution Boxes

Article Overview

Thin plate distribution boxes are compact, modular enclosures designed for efficient wiring of sensors and actuators, offering IP65/IP67 protection, flexible mounting, and space-saving installation.

Key Features

Compact and Modular Design: Thin plate distribution boxes are designed to save space in control panels and field installations. They often feature modular components that allow easy assembly, disassembly, and replacement of parts, which reduces installation time and maintenance costs (Murrelektronik), .

Dimensions and Mounting: These boxes typically have a slim profile, with components as narrow as 30 mm, allowing side mounting or other flexible installation options. They are available in multiple ways, ranging from 1-way to 36-ways, depending on the model (Slideshare), .

Standard cable lengths for connections can vary from 1 m to 10 m, accommodating different installation requirements (Rockwell Automation), .

Protection Ratings: Most thin plate distribution boxes are rated IP65 or IP67, ensuring protection against dust and water ingress. Fully potted boxes are resistant to various media, making them suitable for industrial environments (Murrelektronik), .

Electrical and Connectivity Features: These boxes provide convenient connections for sensors and actuators, often including integrated LEDs for status indication and troubleshooting. They support multiple signals per port, which optimizes wiring and reduces the number of terminal blocks required (Murrelektronik), .

Material and Durability: Typically made from durable plastics such as PVC or polycarbonate, thin plate distribution boxes resist corrosion and mechanical stress. Some models include foam-gasketed lids and stainless steel screws for enhanced sealing and longevity (ABB), .

Applications: They are widely used in industrial automation, production sites, and mining operations for power and signal distribution. Their compact design allows installation in confined spaces while maintaining reliable connectivity (Junon Electrical), .

Summary

Thin plate distribution boxes combine space efficiency, modularity, and robust protection to provide reliable solutions for connecting multiple sensors and actuators. Key specifications include slim dimensions, flexible mounting options, IP65/IP67 protection, modular components, and integrated status indicators, making them ideal for industrial and automation applications.

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses.
Find

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The forms of separation defined by IEC 61439-2 standard are the barriers to be put in place in distribution assemblies to ensure

The compact, surface-mounted xComfort Mini and Micro distribution enclosures are designed for residential and commercial

Starting from compact boards for energy distribution applications up to floor standing energy supplying switchboards for huge sites of

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars,

Easy Installation of outgoings The design of the pan assembly facilitates the installation of outgoing devices. Availability of mixing

32 amp Distribution Board includes cover, frame, base box, guide rail, neutral copper bar and earth copper

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

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A distribution board (also known as panelboard, circuit breaker panel, breaker panel, circuit breaker, electric panel, fuse box or DB

Distribution is an essential function for the electrical panels, as well as for control and circuit protection. As well as purely technical

This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways. It

These boxes feature a compact, space-saving design, making them ideal for installations with limited space, while also ensuring

SCOPE: This specification covers the design, manufacturing, testing at works and supply of Indoor type A.C. Distribution Boards for

Salient Points for AC Lighting Power, DC Lighting and AC Power Distribution Boxes Rev 0

TECHNICAL SPECIFICATION FOR DISTRIBUTION BOARDS & LIGHTING PANELS
SPECIFICATION NO. PE-TS-434-558-E002

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