

Iron plate for fixing the guide rail of the distribution box



AI Overview

Iron or steel mounting plates are commonly used to secure guide rails (DIN rails) inside distribution boxes, providing a stable and durable surface for circuit breakers and other modular devices.

Purpose and Function Iron plates, often referred to as mounting plates or fixing plates, serve as a base for attaching guide rails inside electrical enclosures. They ensure that DIN rails or circuit breaker rails are firmly held in place, preventing movement due to vibration or mechanical stress, and allow for organized installation of electrical components ().

Material and Specifications Typically made of mild steel or iron, sometimes galvanized or powder-coated for corrosion resistance (). Thickness usually ranges from 1.5 mm to 3 mm, depending on the size of the distribution box and the load of mounted devices.

Dimensions are often customized to fit the width and depth of the enclosure, with pre-drilled holes for screws or bolts to attach the plate to the box.

Installation Position the plate inside the distribution box at the desired height and alignment for the guide rail. Secure the plate using screws, bolts, or rivets through pre-drilled holes in the plate and the enclosure wall. Attach the guide rail to the plate using compatible clamps or fasteners, ensuring it is level and stable (). Check that all mounted devices can slide onto the rail without obstruction.

Available Products Partial or full mounting plates for enclosures are available from suppliers like Rittal, which provide additional mounting surfaces when the enclosure does not include a plate (). Steel guide rail clamps and flat clamp rails are also available for securing DIN rails at the bottom or sides of the enclosure ().

Online marketplaces like Amazon or Alibaba offer pre-cut iron or steel plates suitable for standard DIN rail sizes ().

Recommendations Choose a plate compatible with the enclosure size and the number of devices to be mounted. Ensur...

Article Content

Metal Distribution Box, MDB Series, Sieben Group Co., Ltd.

Application MDB series metal distribution boxes are designed for safe, reliable distribution and control of electrical power as service entrance equipment in

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Mounting components for rail systems

For fixing top hat rails directly onto the rear panel of KX terminal boxes and KX bus enclosures. Creates an additional mounting level with an extra 10 mm of

Guide to DIN Rail Systems

The Complete Guide to DIN Rail Systems: This simple yet critical product is essential to efficient electrical component installation and organization.

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Build a Junction Box with DIN Rail Terminal Blocks

DIN rails are designed for securely attaching electrical and industrial control products - such as circuit breakers, terminal blocks, power supplies, actuators, solenoids and so on - inside a ...

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With the potential for products with higher mass, smaller intervals and sturdier fixing of the DIN-Rail to a control cabinet back-plate is suggested. The torsional or twisting behavior of the rail with a

Understanding DIN Rail: Types, Applications, and

Explore the world of DIN rail: discover types, applications, and specifications. Learn how components are designed to snap into enclosures for

Factory Direct Customizable Metal Distribution Box with Base Plates

Our main products include circuit breakers, surge protectors, automatic transfer switches, distribution boxes, and combiner boxes. If you need them, we can have a detailed discussion and I will introduce

Rail systems

Rail for flexible interior installation on a 25 mm pitch pattern in AX compact enclosures. Now with an increased load-bearing capacity of 100 N for mounting

Distribution boards components

Distribution boards (generally only one in residential premises) usually include the meter (s) and in some cases (notably where the supply utilities impose a TT earthing system and/or tariff

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Step-by-Step Guide to Install MCB Distribution Box

Learn how to safely install an MCB distribution box with this comprehensive guide. Step-by-step instructions to ensure correct installation.

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U-shaped c45 air-open iron guide rail clamp, "invisible hero ...

Friends, let's talk about the "invisible hero" - u-shaped c45 air-open iron guide rail card strip in the power distribution box today. Even though it's unremarkable, it plays a crucial role in the distribution box!

2-24 circuit breaker steel guide rail flat clamp rail bottom

2-24 Circuit Breaker Steel Guide Rail Flat Clamp Rail Bottom Fixing Strip For Distribution Box/ Rail End Stopper Terminal Block, Find Complete Details about

Electrical Enclosure Installation Parts

This mounting plate provides reliable support by facilitating easy attachment of electrical enclosures to vertical structures. Designed to enhance accessibility, Instrument Box Mounting Plate optimizes

1-Meter Universal C45 Aluminum Guide Rail Slot Air Switch Fixing

Constructed with durable iron and aluminum materials, the rail ensures long-term performance and stability in various industrial and residential applications. The U-shaped design offers excellent

The Best Solution to Install Components Inside The

The trickiest part of installing inner components of a distribution box is that the components' heights are irregular. E-Abel's flexible mounting bracket

Panel Hardware | DIN Rail, Wire Duct & Strut Channel

Explore panel hardware including DIN rail, wire duct, and strut channel for secure, organized industrial and commercial control panels.

DIN rails for mounting modular equipment in the electrical distribution ...

DIN rails are standardized mounting rails designed for modular electrical equipment such as relays, automation devices, switches, circuit breakers, and other components to be mounted in electrical

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