

RIVO MULTITRADE OPTICAL SYSTEMS

Small busbar unit



Overview

Choose from our selection of bus bars, including over 650 products in a wide range of styles and sizes. Same and Next Day Delivery.

Key Takeaways

A small busbar unit is a compact, modular electrical distribution system designed for low-power applications, typically ranging from 25A to 160A, providing safe and efficient power distribution in industrial, commercial, or service environments.

A small busbar unit, often referred to as a low-power busbar trunking system, is used to distribute electrical power from a main supply to multiple outgoing circuits efficiently. These units are modular, allowing easy expansion or reconfiguration, and are suitable for applications such as lighting, small machinery, or intelligent lighting systems with DALI or 0-10V protocols (BTicino).

Key Features

- **Current Ratings:** Typically from 25A to 160A for small units, with tap-off units rated 16A to 63A for flexible connections (Schneider Electric).
- **Conductor Materials:** Copper or aluminum conductors are commonly used, offering high conductivity and reliability (RS, BTicino).
- **Modularity:** Units are composed of main rectilinear elements to which devices like tap-off boxes, shunt devices, or flexible connectors can be attached, enabling easy system expansion or maintenance (BTicino).

- **Protection and Standards:** Small busbar units often comply with IEC EN 61439-6 standards, with IP20 to IP55 protection ratings, ensuring safety against contact hazards and environmental factors (BTicino) .
- **Installation:** Designed for fast and secure installation, often with plug-in or bolt-on tap-off boxes, reducing the need for extensive cabling and large distribution boards (EAE Electric) .

Applications

Small busbar units are ideal for:

- Lighting distribution in commercial or industrial buildings
- Low-power machinery in factories
- Data centers for modular power supply to server racks
- Service and tertiary sector buildings where compact, flexible power distribution is required .

Advantages

- Compact and space-saving design suitable for tight installations
 - Flexible and scalable, allowing easy addition of circuits or devices
 - Reduced installation time compared to traditional cabling
 - Enhanced safety with standardized protection and tested components
 - Efficient power distribution with minimal voltage drop and energy loss .
- In summary, a small busbar unit provides a reliable, modular, and efficient solution for low-power electrical distribution, combining safety, flexibility, and ease of installation for a wide range of industrial and commercial applications.

Article Content

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A busbar system is a modular system comprised of busbars, busbar terminals and supports

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FlexLine® busbars & accessories

FlexLine® busbars PSX go hand in hand with the flex terminals of the FlexLine® protection devices by

IEC COPPER EDITION

Expansion units are a fitting used to accommodate the expansion and contraction of a busbar system and for building movement.

Busbar Trunking | EAE Elektrik | Power Distribution

Simplify your energy distribution with EAE Busbar Trunking systems, offering innovative solutions for lighting, low voltage, medium

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Time-lapse installation of a modular BioSafe steel cleanroom with windows, an exit swing door, entryway

Busbars for Data Centers, Telecom Rooms, and Rack

Copper busbars designed for grounding and bonding in data centers, telecom rooms, and network racks.

Common 100A Mini BusBar

Provides convenient busing for limited space applications.

Busbars | Busbars manufacturers & supplier | Eaton

Busbars are metal bars that can be composed of numerous alloys but are most commonly copper or aluminum. Typical busbar

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