

380 Distribution Box with 6 Switches

Article Overview

A 380V distribution box with 6 switches is designed to safely distribute three-phase electrical power, protect circuits, and allow individual control of connected loads.

Overview

A 380V distribution box is a type of electrical enclosure used to manage and distribute three-phase power in industrial, commercial, or residential settings. The box typically houses circuit breakers or switches that protect electrical circuits from overloads, short circuits, and faults by automatically cutting off power when necessary . A configuration with 6 switches allows independent control of six separate circuits, making it suitable for machinery, lighting, or other high-power equipment .

Key Features

- o Voltage Rating: 380V three-phase, suitable for industrial and commercial power systems .
- o Switches: Six individual switches or circuit breakers, which can be of various types such as oil, air blast, vacuum, or magnetic, depending on the required fault protection and reliability .
- o Enclosure Protection: Many boxes offer IP55 protection, making them resistant to dust, moisture, and suitable for outdoor use .
- o Material: Industrial-grade plastics or metals, often UV-resistant for long-term durability outdoors .
- o Mounting Options: Wall-mounted or floor-mounted, with flexible cable entry points using stepped nipples or cable glands for different cable diameters .

Applications

- o Industrial Power Distribution: Safely distributes power to machinery, motors, and production lines.
- o Data Centers: Rack-mounted versions can supply power to IT equipment while monitoring and controlling energy usage .
- o Stage and Event Lighting: Provides controlled power distribution for concerts, theaters, and studios .
- o Residential or Commercial Sites: Can be used with generator panels or sub-distribution boards for smaller installations .

Advantages

- o Safety: Protects circuits from overloads and short circuits.
- o Control: Individual switches allow selective power management.
- o Durability: Resistant to environmental factors like dust, moisture, and UV exposure.
- o Flexibility: Suitable for indoor and outdoor installations, with customizable cable entry options .

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Considerations

- o Ensure the switch type and rating match the load requirements.
- o Verify IP rating if the box will be used outdoors.
- o Proper installation by a qualified electrician is recommended to comply with safety standards.
- o Check compatibility with existing electrical systems, especially for three-phase 380V setups . A 380V distribution box with 6 switches is a versatile and reliable solution for managing multiple circuits in industrial, commercial, or specialized applications, providing both safety and operational control.

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6. Commercial Buildings: Electrical distribution boxes are used in commercial buildings to distribute power

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Schneider Electric USA. 9080LBC363106 - Power distribution block, Linergy, 3 pole, 1 line, 6 load, 380A

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