Norwegian Industrial Switch Model Parameters



Overview

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Key Takeaways

Industrial switches in Norway are designed to meet strict safety, environmental, and operational standards, with parameters including voltage/current ratings, environmental tolerance, port capacity, and reliability features.

Key Design and Operational Parameters

Voltage and Current Ratings: Medium-voltage air load break switches in Norway typically handle 6–36 kV and currents from 400 A up to around 1 kA (50 Hz). These switches are designed to safely interrupt current under load, with thermal interruption considered during the first tens of microseconds after current zero. Environmental Tolerance: Industrial switches are built to operate in extreme environments, including temperatures from -40 ℃ to 75 ℃.

They are often rated with IP40 to IP67 protection, ensuring resistance to dust, water, and other harsh conditions, suitable for outdoor oil extraction sites, steel plants, or underground mines. Safety and Compliance: Low-voltage switch disconnectors provide safe disconnection under load and comply with international safety standards. Both standardized and customized solutions are available to meet specific industrial requirements, ensuring safe operation in Norwegian industrial settings.

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Network and Redundancy Features: Industrial network switches often include redundant power modules and support ring network redundancy, allowing uninterrupted operation even if one power supply or network link fails. Port numbers typically range from 8 to 24, with speeds from 10/100 Mbps to 10 Gbps, depending on the data transmission needs. Interrupting Medium: Air is commonly used as an environmentally friendly interrupting medium for medium-voltage switches, offering a cost-effective alternative to SF6 or vacuum solutions.

Proper understanding of air flow over-pressure and transient recovery voltage is essential for reliable switch operation. Customization and Application: Norwegian industrial switches can be customized for specific applications, including main switches, control switches, and repair switches. Compact designs allow integration into various industrial systems while maintaining compliance with safety regulations.

Summary

When selecting or designing industrial switches in Norway, consider voltage/current ratings, environmental tolerance, safety compliance, network redundancy, and interrupting medium. These parameters ensure reliable, safe, and efficient operation in demanding industrial environments, from offshore oil platforms to heavy manufacturing facilities.

Article Content

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