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Performance parameters of Italian industrial switches



Overview

Explained: Italian Standard Socket Switch Standards, Composition, Italian standard socket switches are renowned for their precision engineering, durability.

Key Takeaways

Italian industrial switches are designed for high reliability, compliance with international standards, and operation in demanding industrial environments, with specifications varying by type from load-break switches to industrial Ethernet switches.Load-Break Switches (LBS)

Italian LBS, such as the DY 515/1, DY 515/2, and DY 516/2 series by Imequadri Duestelle, are indoor, wall-mounted switches designed for medium voltage applications. Key performance parameters include:

• Rated voltage and current: Suitable for medium voltage circuits, capable of carrying rated current and interrupting short-circuit currents.

• Arc extinction: Achieved via air puff generated by self-blowing pistons, ensuring safe operation during switching.

• Mechanical design: Hinge-type movable contacts for precise opening and closing.

• Standards compliance: IEC 62271-103, IEC/CEI EN 62271-1.

• Expected lifetime: 20 years under normal operating conditions.

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• Environmental compliance: RoHS 2 directive for restriction of hazardous substances.

• Installation: Fixed to walls in substations, suitable for indoor environments .

Push-Button Industrial Switches

Italian push-button switches, such as those from Everel, are designed for robustness and high performance in industrial control panels:

• Operation: On/off, with or without LED indicators, unipolar or bipolar configurations.

• Customization: Various sizes, shapes, and tactile feedback options to optimize user interaction.

• Durability: Engineered to withstand frequent operation and harsh industrial conditions.

• Applications: Control of machinery, appliances, and lighting in industrial environments .

Industrial Ethernet Switches

Italian industrial Ethernet switches, like the IDS series from Perle, are engineered for extreme environmental conditions:

• Temperature range: Operates from -40°C to 75°C.

• Mechanical resilience: Resistant to vibrations and shocks.

• Network capabilities: Supports managed and unmanaged configurations, PoE up to 100 W, VLAN, QoS, STP/RSTP/MSTP, and industrial protocols like PROFINET and Modbus TCP.

• Redundancy and reliability: Ring topology support with MRP (IEC 62439-2) for recovery times under 10 ms.

• Security: Authentication via IEEE 802.1X, TACACS+, RADIUS, SSH, SNMPv3, HTTPS.

• Applications: Industrial automation, SCADA systems, IP cameras, VoIP phones, and wireless access points .

Summary

Italian industrial switches are characterized by high reliability, compliance with IEC and European standards, long service life, and adaptability to harsh industrial environments. Load-break switches focus on medium voltage circuit protection, push-button switches on operator control and durability, and industrial Ethernet switches on network performance, redundancy, and environmental resilience. These parameters ensure safe, efficient, and long-term operation in industrial applications.

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