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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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