

# Thyristor Protectors Market to Surpass USD 1006 Million by 2032 | SNS Insider

*Thyristor Protectors Market Driven by demand for circuit protection in telecommunications, industrial, and power applications, driven by surge protection needs.*

AUSTIN, TX, UNITED STATES, February 12, 2025 /EINPresswire.com/ -- Market Size & Industry Insights

As Per the SNS Insider, "The [Thyristor Protectors Market](#) size was Valued at USD 700 Million in 2023 and is

expected to Reach USD 1006 Million by 2032 and grow at a CAGR of 4.11% over the forecast period of 2024-2032."

The growing implementation of automation, IoT and Industry 4.0 is substantially contributing to the demand for thyristor protectors throughout various industrial and commercial applications. As the requirements for data centers increase, renewable energy becomes an integrated power system, and the 5G infrastructure is developed, the demand for efficient surge protection products are increasing as well. Furthermore, the increasing emphasis on preventing electrical hazards in smart grids and consumer electronics is also driving demand to achieve reliability for the full service life of the system. The need for protective devices is currently paramount as industries strive to protect their equipment with advancements against both voltage transients and electrical disturbances, resulting in the adoption of thyristor protectors as a key component in modern power networks.

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SWOT Analysis of Key Players as follows:

- Umicron Technologies Corporation
- Diodes Incorporated
- STMicroelectronics



Thyristor Protectors Market Size & Growth Analysis

- Microchip Technology
- ON Semiconductor
- ProTek Devices
- TE Connectivity
- CYG Wayon
- Shenzhen Ruilongyuan Electronics Co. Ltd
- SSG Semiconductor

However, high infrastructure costs and complex design requirements pose challenges, potentially slowing adoption despite the market's strong potential. Nonetheless, emerging technologies and the expansion of power distribution networks continue to create significant opportunities, positioning thyristor protectors as critical solutions for ensuring stable, secure, and uninterrupted electrical operations across various industries.

### Thyristor Protectors Market Segmentation

#### By Type, Direction Type Dominating and Mounting Type Fastest Growing

The Direction Type segment dominated in 2023, driven by its widespread use in telecommunications, industrial automation, and consumer electronics for reliable surge protection. Its ability to handle high-voltage transients makes it essential for critical applications.

The Mounting Type segment is the fastest-growing, due to the rising requirement for compact, easy-to-install, and high-performance protection solutions for modern electronic devices and power infrastructure. The growing use of miniaturized components in smart grids and advanced power systems is accelerating its growth, making it a focal area for manufacturers and industry players.

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#### By Application, Utility and Power Distribution Dominating and Medical Equipment Fastest Growing

The Utility and Power Distribution segment dominated the Thyristor Protectors Market in 2023, due to the increasing need for robust surge protection in power grids, renewable energy systems, and industrial networks. Increased electrical transients and surges along with the expansion of electrical grid infrastructure, smart grid projects, and high-voltage distribution systems have created a need for protection against electrical transients and voltage fluctuations. Other trends such as grid modernization and renewable energy integration will further necessitate robust thyristor protectors to maintain system stability.

The Medical Equipment segment is the fastest-growing driven by the rising adoption of advanced

medical technologies, imaging systems, and life-support equipment that demand effective surge protection to ensure operational efficiency and patient safety. Due to the high performance, smaller scale, and durable defense solutions that meet patient safety needs and increase market growth function, segments will become a hot area for manufacturers and investors.

## Regional Analysis of the Thyristor Protectors Market: North America Dominates, Asia Pacific Fastest-Growing

North America dominated the Thyristor Protectors Market in 2023, driven by the adoption of advanced power distribution systems, rapid expansion of data centers, and increasing demand for industrial automation and telecommunications infrastructure. The presence of leading technology firms, strict regulatory standards for electrical safety, and significant investments in smart grid projects further reinforce its market leadership.

The Asia Pacific region is the fastest growing, as that is fueled by fast industrialization, urbanization, and the expanding the use of renewable energy projects. Growing production of consumer electronics, the increase in 5G deployment, and the growing need for reliable protection against power failure solutions across a variety of sectors will accelerate the market growth. Consequently, Asia Pacific has emerged as a primary point of concern for manufacturers and investors alike, hence creating a majorly profitable opportunity over the next few years.

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