

Low-Voltage Circuit Breakers Market to Reach USD 25.24 Billion by 2032 Amid Rising Demand for Energy Efficiency & Safety

The Low-Voltage Circuit Breakers Market growth is driven by advancements in energy management systems and increasing construction activities worldwide

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[Low-Voltage Circuit Breakers Market](#)

The Low-Voltage Circuit Breakers Market Size was valued at USD 10.90 billion in 2023 and is expected to reach USD 25.24 billion by 2032 and grow at a CAGR of 9.78 % over the forecast period 2024-2032.

Growth and Importance of the Low-Voltage Circuit Breakers Market



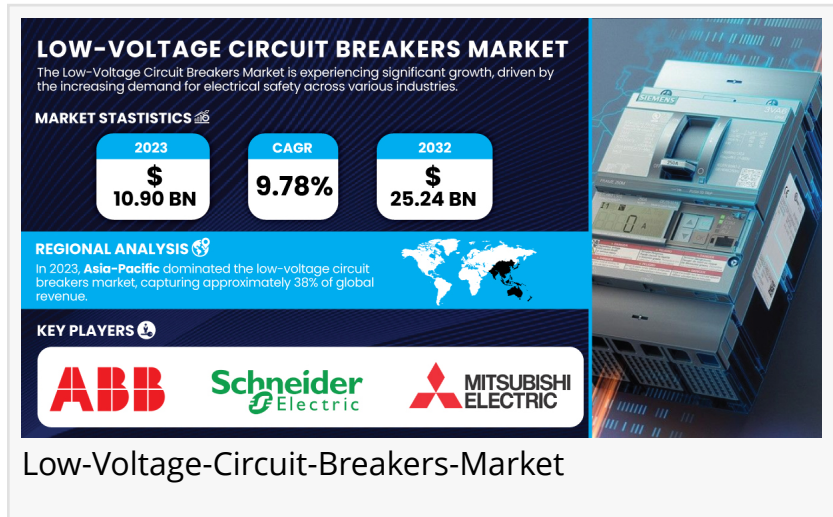
Low Voltage Circuit Breakers market demand for reliable electrical safety in residential, commercial, & industrial sectors, driven by urbanization & advancements in smart grid technologies”

SNS Insider

The low-voltage circuit breakers market plays a critical role in safeguarding electrical circuits across residential, commercial, and industrial settings. These devices are essential for protecting electrical systems from overloads, short circuits, and other faults that can cause significant equipment damage or safety hazards. Low-voltage circuit breakers are witnessing growing adoption due to their reliability, cost-efficiency, and adaptability across multiple applications.

The market is fueled by increasing energy consumption,

the need for efficient energy distribution, and the rising focus on renewable energy integration. Smart grids and advancements in digital technologies are also driving demand, enabling real-time monitoring and control of electrical systems. Growing urbanization and industrialization,



particularly in emerging economies, are expanding the adoption of circuit breakers in residential and commercial infrastructure.

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Key Players Listed in Low-Voltage Circuit Breakers Market Are:

- ABB
- Schneider Electric
- Mitsubishi Electric Corporation
- Siemens AG
- Eaton Corporation
- Shanghai Liangxin Electrical Co. Ltd
- DELIXI
- Hangshen Electric
- CHINT Group
- Hyundai Electric and Energy Systems Co. Ltd
- Fuji Electric FA Component and Systems Co. Ltd
- Changsu Switchgear Manufacturing Co. Ltd.
- Hager Group
- People Electric Appliance Group Co. Ltd
- Panasonic Corporation
- Danfoss
- Rockwell Automation Inc.
- Circutor SA
- Lovato Electric S.P.A.
- WEG Group
- Carling Technologies Inc. and Britec Electric.

Increasing Adoption of Renewable Energy Systems

The global shift towards renewable energy sources like wind and solar power has led to a surge in demand for low-voltage circuit breakers. These systems require reliable protection mechanisms to ensure seamless power distribution and operational safety. In addition, renewable energy projects often involve complex electrical systems with higher load variability, necessitating advanced circuit breakers for efficiency and safety. Governments worldwide are promoting green energy initiatives, which is further propelling the market growth for these essential components.

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Low-Voltage Circuit Breakers Market Segment Analysis

By Type: Moulded Case Circuit Breaker (MCCB) dominated with a 45% market share in 2023, MCCBs are highly preferred due to their versatility and ability to handle high current ratings. Their applications span industrial plants, commercial buildings, and renewable energy projects, making them a crucial component in modern power systems.

By Application: Shutoff Circuit Automatically dominated with a 40% market share in 2023. Automatic shutoff circuits are increasingly used in residential and commercial applications, as they offer enhanced safety and energy efficiency. These systems detect faults and disconnect power instantaneously, reducing potential hazards and ensuring the longevity of electrical appliances. The growth in automated energy management systems further underscores their dominance in the market.

By End-User: The Commercial Sector dominated with a 48% market share in 2023, the commercial sector drives demand due to extensive usage in malls, offices, and large infrastructure projects. The expansion of smart buildings and sustainable architecture enhances the need for advanced circuit breakers.

Low-Voltage Circuit Breakers Market Key Segmentation:

By Type

- Miniature Circuit Breaker
- Molded Case Circuit Breaker
- Air Circuit Breaker

By Application

- Energy Allocation
- Shut off Circuit
- Others

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Regional Analysis

Asia-Pacific holds the largest market share at 41.42% in 2023 and is expected to grow at a CAGR of 7.3% by 2032. The region's dominance is attributed to rapid industrialization, urbanization, and increased investments in renewable energy infrastructure. China leads the market, driven by government initiatives promoting clean energy adoption and infrastructure expansion. India, with its fast-growing construction sector and renewable energy projects, is emerging as the

fastest-growing market in the region. Major players are increasingly focusing on these countries to capitalize on the growing demand for circuit breakers.

North America is witnessing robust growth due to advancements in IoT-enabled smart grids and the modernization of aging electrical infrastructure. The United States leads in adopting innovative technologies for renewable energy projects, such as wind farms and solar parks, which require advanced circuit protection. Additionally, commercial applications, including data centers and smart buildings, are driving the demand for low-voltage circuit breakers in the region.

Recent Developments

March 2024: Schneider Electric, the top company in changing energy management and automation digitally, introduced the groundbreaking Master Pact MTZ Active, a new low-voltage air circuit breaker at Data Centre World in London, aiming to achieve new levels of efficiency and sustainability.

November 2024: Eaton introduced the xEnergy Elite low voltage motor control and power distribution center to support business-critical applications in industries like mining, offering increased uptime, flexibility, and cost savings on maintenance for loads up to 7,500 A and 690 VAC.

January 2023: Siemens introduced two more versions of their innovative Sentron 3WA Power Circuit Breakers, also known as air circuit breakers (ACBs). Siemens stated in a press release that Series 3WA3 is compliant with both UL1066 and IEC60947-2 standards, allowing customers to utilize it globally.

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