

AC Motors Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Single Phase, Poly Phase), Application (Oil & Gas, Chemical & Petrochemical, Power Generation, Water & Wastewater, Metal & Mining, Food & Beverage, Discrete Industries, Other), By Region & Competition, 2020-2030F

<https://marketpublishers.com/r/A84BF0810E6EEN.html>

Date: June 2025

Pages: 186

Price: US\$ 4,500.00 (Single User License)

ID: A84BF0810E6EEN

Abstracts

Market Overview

The Global AC Motors Market, valued at USD 17.9 billion in 2024, is projected to reach USD 22.6 billion by 2030, registering a CAGR of 3.8% during the forecast period. Growth in this market is largely driven by increased adoption of industrial automation and smart manufacturing, particularly in developing regions. As industries strive for operational efficiency, the demand for energy-efficient and reliable AC motors continues to rise. Stricter energy regulations aimed at reducing carbon emissions are also propelling the adoption of high-efficiency motor technologies. The rapid expansion of the electric vehicle market—where AC motors serve as key drivetrain components—further bolsters demand. Additionally, the proliferation of HVAC systems and home appliances, particularly in urban centers, is contributing to widespread usage. Advanced features like IoT integration and smart sensors are enhancing motor performance and reliability. With Asia-Pacific leading due to significant industrial growth in countries such as China and India, the global AC motors market is poised for consistent, technology-driven expansion.

Key Market Drivers

Rising Demand for Energy Efficiency and Sustainability in Industrial Operations

The global shift toward sustainable practices and reduced energy consumption is a major force driving the AC motors market. Regulatory bodies have introduced rigorous standards—such as IEC classifications, MEPS, and EEI—to promote the adoption of energy-efficient AC motors, particularly IE3 and above. These motors offer both economic and environmental advantages by consuming less electricity and lowering operational costs. In sectors like manufacturing, water treatment, oil & gas, and chemicals, electric motors account for a substantial share of energy usage—up to 70% in some cases. Transitioning to high-efficiency motors directly supports energy conservation goals. Additionally, companies aiming to meet ESG benchmarks are turning to energy-efficient solutions to minimize carbon footprints and appeal to environmentally conscious stakeholders. Technologies such as variable frequency drives (VFDs) and IoT-based monitoring systems are enabling real-time control and optimization, reinforcing the role of AC motors in sustainable industrial practices.

Key Market Challenges

Expanding Industrial Infrastructure and Urbanization Across Emerging Economies

The global AC motors market is significantly influenced by the acceleration of industrial infrastructure and urban development in emerging economies. Countries like China, India, Brazil, Vietnam, and Indonesia are undergoing rapid transformation, resulting in heightened demand for AC motors across sectors. Industrial facilities, including cement plants, water treatment systems, refineries, and manufacturing units, rely heavily on motors for essential processes. Likewise, growing urbanization is fueling the use of AC motors in HVAC systems, elevators, and escalators in high-rise buildings, airports, and metros. Government investments in smart city initiatives and infrastructure upgrades further support this trend. As these countries ramp up their industrial and urban development, the requirement for durable and efficient AC motors becomes more pronounced, thereby propelling market growth.

Key Market Trends

Surge in Demand for High-Efficiency IE3 and IE4 Motors

A defining trend in the global AC motors market is the escalating demand for IE3 and IE4 energy-efficient motors. With electric motors accounting for nearly 45% of global electricity consumption, improving efficiency has become a top priority. IE3 and IE4

motors not only offer energy savings but also enhance durability and reduce total operational costs. Regulatory frameworks like the EU's Ecodesign Directive, the U.S. Department of Energy's efficiency mandates, and India's BEE standards are accelerating the replacement of outdated motors with these high-performance models. Though initial investment costs are higher, the long-term savings—especially in power-intensive industries—make these motors financially attractive. Businesses are now prioritizing Total Cost of Ownership (TCO) when making purchasing decisions, further encouraging the shift to IE3 and IE4 motors and underscoring the trend toward smart, sustainable manufacturing solutions.

Key Market Players

Rockwell Automation Inc.

Siemens AG

Johnson Electric

Nidec Corporation

ABB Ltd

Franklin Electric Co.Inc.

WEG Electric Corporation

Yaskawa Electric Corporation

Report Scope:

In this report, the Global AC Motors Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

AC Motors Market, By Type:

Single Phase

Poly Phase

AC Motors Market, By Application:

Oil & Gas

Chemical & Petrochemical

Power Generation

Water & Wastewater

Metal & Mining

Food & Beverage

Discrete Industries

Other

AC Motors Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

South America

Brazil

Colombia

Argentina

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global AC Motors Market.

Available Customizations:

Global AC Motors Market report with the given market data, TechSci Research offers

AC Motors Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Single P...

customizations according to a company's specific needs. The following customization options are available for the report:

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