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Global Single-phase Brushless DC Motor Driver Market Growth 2025-2031

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Abstracts

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The global Automotive Active Grille Shutters market size is predicted to grow from US$ 1755 million in 2025 to US$ 2722 million in 2031; it is expected to grow at a CAGR of 7.6% from 2025 to 2031.

Automotive active grille shutters are a system of automatically controlled louvers or vanes positioned in front of a vehicle's radiator. These shutters open and close to regulate airflow to the engine compartment. When cooling is needed, the shutters open to allow air to flow through the radiator. When cooling is not required, such as during warm-up or highway cruising, the shutters close to improve aerodynamics, reducing drag and improving fuel efficiency.

The trend in active grille shutter technology is focused on improving performance, expanding functionality, and reducing complexity. Key trends include: enhanced control algorithms that consider a wider range of parameters, such as engine temperature, vehicle speed, ambient temperature, and even driving style, for more precise airflow management; improved actuator designs for faster opening and closing times, as well as increased durability and reliability in harsh environments; integration with other vehicle systems, such as the climate control system and engine management system, for optimized overall vehicle performance; the use of lighter-weight materials, such as plastics and composites, to reduce weight and improve fuel efficiency; and the development of more compact designs to allow for greater styling flexibility. Furthermore, there's a growing emphasis on predictive control strategies that anticipate cooling needs based on navigation data or traffic conditions, enabling proactive shutter adjustments. The trend is also towards more sophisticated diagnostic capabilities,

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allowing for early detection of potential issues. This aligns with the automotive industry's focus on improving fuel economy, reducing emissions, and enhancing vehicle performance and aerodynamics.

The Automotive Active Grille Shutters (AGS) market is part of the larger trend toward increasing vehicle fuel efficiency, aerodynamics, and reducing emissions. Active grille shutters are a key component in improving the overall performance and efficiency of modern vehicles by optimizing airflow to the engine and cooling systems. These shutters adjust automatically depending on driving conditions, contributing to better fuel economy and reduced environmental impact. As the automotive industry focuses on innovation, fuel efficiency, and emission standards, the active grille shutters market is witnessing significant growth.

Fuel efficiency and CO2 emission reduction are among the top priorities for automakers due to stringent government regulations, especially in regions like the European Union, North America, and China.

Active grille shutters improve aerodynamics by controlling airflow to the engine and cooling systems, reducing drag and fuel consumption, particularly at high speeds. By optimizing airflow, they enhance vehicle performance and contribute to meeting emission reduction standards.

Regulatory frameworks such as Euro 6, CAFE (Corporate Average Fuel Economy) standards, and fuel economy regulations in various countries continue to encourage the adoption of AGS to improve vehicle efficiency.

LP Information, Inc. (LPI) ' newest research report, the “Automotive Active Grille Shutters Industry Forecast” looks at past sales and reviews total world Automotive Active Grille Shutters sales in 2024, providing a comprehensive analysis by region and market sector of projected Automotive Active Grille Shutters sales for 2025 through 2031. With Automotive Active Grille Shutters sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Automotive Active Grille Shutters industry.

This Insight Report provides a comprehensive analysis of the global Automotive Active Grille Shutters landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Active Grille Shutters portfolios and capabilities, market entry strategies,

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market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Active Grille Shutters market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Active Grille Shutters and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Active Grille Shutters.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Active Grille Shutters market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Visible Type

Non-Visible Type

Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

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The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Rochling

Valeo

Magna International

Wirthwein

SRG Global

Batz

HBPO GmbH

Techniplas

Brose Fahrzeugteile

STARLITE

Mirror Controls International

Huatong Automotive Molding

Tong Yang Group

Sonceboz

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Active Grille Shutters market?

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What factors are driving Automotive Active Grille Shutters market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Active Grille Shutters market opportunities vary by end market size?

How does Automotive Active Grille Shutters break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Single-phase Brushless DC Motor Driver Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for Single-phase Brushless DC Motor Driver by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for Single-phase Brushless DC Motor Driver by Country/Region, 2020, 2024 & 2031
2.2 Single-phase Brushless DC Motor Driver Segment by Type
  2.2.1 Device-level Drive
  2.2.2 Modular Drive
  2.2.3 Control Integrated Drive
2.3 Single-phase Brushless DC Motor Driver Sales by Type
  2.3.1 Global Single-phase Brushless DC Motor Driver Sales Market Share by Type (2020-2025)
  2.3.2 Global Single-phase Brushless DC Motor Driver Revenue and Market Share by Type (2020-2025)
  2.3.3 Global Single-phase Brushless DC Motor Driver Sale Price by Type (2020-2025)
2.4 Single-phase Brushless DC Motor Driver Segment by Application
  2.4.1 Automotive
  2.4.2 Electronics
  2.4.3 UAV
  2.4.4 Industrial
  2.4.5 Others
2.5 Single-phase Brushless DC Motor Driver Sales by Application
  2.5.1 Global Single-phase Brushless DC Motor Driver Sale Market Share by

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Application (2020-2025)
2.5.2 Global Single-phase Brushless DC Motor Driver Revenue and Market Share by Application (2020-2025)
2.5.3 Global Single-phase Brushless DC Motor Driver Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Single-phase Brushless DC Motor Driver Breakdown Data by Company
3.1.1 Global Single-phase Brushless DC Motor Driver Annual Sales by Company (2020-2025)
3.1.2 Global Single-phase Brushless DC Motor Driver Sales Market Share by Company (2020-2025)
3.2 Global Single-phase Brushless DC Motor Driver Annual Revenue by Company (2020-2025)
3.2.1 Global Single-phase Brushless DC Motor Driver Revenue by Company (2020-2025)
3.2.2 Global Single-phase Brushless DC Motor Driver Revenue Market Share by Company (2020-2025)
3.3 Global Single-phase Brushless DC Motor Driver Sale Price by Company
3.4 Key Manufacturers Single-phase Brushless DC Motor Driver Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Single-phase Brushless DC Motor Driver Product Location Distribution
3.4.2 Players Single-phase Brushless DC Motor Driver Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SINGLE-PHASE BRUSHLESS DC MOTOR DRIVER BY GEOGRAPHIC REGION

4.1 World Historic Single-phase Brushless DC Motor Driver Market Size by Geographic Region (2020-2025)
4.1.1 Global Single-phase Brushless DC Motor Driver Annual Sales by Geographic Region (2020-2025)
4.1.2 Global Single-phase Brushless DC Motor Driver Annual Revenue by Geographic

+357 96 030922
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Region (2020-2025)
4.2 World Historic Single-phase Brushless DC Motor Driver Market Size by Country/Region (2020-2025)
4.2.1 Global Single-phase Brushless DC Motor Driver Annual Sales by Country/Region (2020-2025)
4.2.2 Global Single-phase Brushless DC Motor Driver Annual Revenue by Country/Region (2020-2025)
4.3 Americas Single-phase Brushless DC Motor Driver Sales Growth
4.4 APAC Single-phase Brushless DC Motor Driver Sales Growth
4.5 Europe Single-phase Brushless DC Motor Driver Sales Growth
4.6 Middle East & Africa Single-phase Brushless DC Motor Driver Sales Growth

5 AMERICAS

5.1 Americas Single-phase Brushless DC Motor Driver Sales by Country
5.1.1 Americas Single-phase Brushless DC Motor Driver Sales by Country (2020-2025)
5.1.2 Americas Single-phase Brushless DC Motor Driver Revenue by Country (2020-2025)
5.2 Americas Single-phase Brushless DC Motor Driver Sales by Type (2020-2025)
5.3 Americas Single-phase Brushless DC Motor Driver Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Single-phase Brushless DC Motor Driver Sales by Region
6.1.1 APAC Single-phase Brushless DC Motor Driver Sales by Region (2020-2025)
6.1.2 APAC Single-phase Brushless DC Motor Driver Revenue by Region (2020-2025)
6.2 APAC Single-phase Brushless DC Motor Driver Sales by Type (2020-2025)
6.3 APAC Single-phase Brushless DC Motor Driver Sales by Application (2020-2025)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India

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6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Single-phase Brushless DC Motor Driver by Country
7.1.1 Europe Single-phase Brushless DC Motor Driver Sales by Country (2020-2025)
7.1.2 Europe Single-phase Brushless DC Motor Driver Revenue by Country (2020-2025)
7.2 Europe Single-phase Brushless DC Motor Driver Sales by Type (2020-2025)
7.3 Europe Single-phase Brushless DC Motor Driver Sales by Application (2020-2025)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Single-phase Brushless DC Motor Driver by Country
8.1.1 Middle East & Africa Single-phase Brushless DC Motor Driver Sales by Country (2020-2025)
8.1.2 Middle East & Africa Single-phase Brushless DC Motor Driver Revenue by Country (2020-2025)
8.2 Middle East & Africa Single-phase Brushless DC Motor Driver Sales by Type (2020-2025)
8.3 Middle East & Africa Single-phase Brushless DC Motor Driver Sales by Application (2020-2025)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

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info@marketpublishers.com

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Single-phase Brushless DC Motor Driver
10.3 Manufacturing Process Analysis of Single-phase Brushless DC Motor Driver
10.4 Industry Chain Structure of Single-phase Brushless DC Motor Driver

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Single-phase Brushless DC Motor Driver Distributors
11.3 Single-phase Brushless DC Motor Driver Customer

12 WORLD FORECAST REVIEW FOR SINGLE-PHASE BRUSHLESS DC MOTOR DRIVER BY GEOGRAPHIC REGION

12.1 Global Single-phase Brushless DC Motor Driver Market Size Forecast by Region
  12.1.1 Global Single-phase Brushless DC Motor Driver Forecast by Region (2026-2031)
  12.1.2 Global Single-phase Brushless DC Motor Driver Annual Revenue Forecast by Region (2026-2031)
12.2 Americas Forecast by Country (2026-2031)
12.3 APAC Forecast by Region (2026-2031)
12.4 Europe Forecast by Country (2026-2031)
12.5 Middle East & Africa Forecast by Country (2026-2031)
12.6 Global Single-phase Brushless DC Motor Driver Forecast by Type (2026-2031)
12.7 Global Single-phase Brushless DC Motor Driver Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Microchip
  13.1.1 Microchip Company Information
  13.1.2 Microchip Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
  13.1.3 Microchip Single-phase Brushless DC Motor Driver Sales, Revenue, Price and

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Gross Margin (2020-2025)
13.1.4 Microchip Main Business Overview
13.1.5 Microchip Latest Developments
13.2 Power Motor
13.2.1 Power Motor Company Information
13.2.2 Power Motor Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
13.2.3 Power Motor Single-phase Brushless DC Motor Driver Sales, Revenue, Price and Gross Margin (2020-2025)
13.2.4 Power Motor Main Business Overview
13.2.5 Power Motor Latest Developments
13.3 ROHM
13.3.1 ROHM Company Information
13.3.2 ROHM Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
13.3.3 ROHM Single-phase Brushless DC Motor Driver Sales, Revenue, Price and Gross Margin (2020-2025)
13.3.4 ROHM Main Business Overview
13.3.5 ROHM Latest Developments
13.4 Nisshinbo Micro Devices
13.4.1 Nisshinbo Micro Devices Company Information
13.4.2 Nisshinbo Micro Devices Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
13.4.3 Nisshinbo Micro Devices Single-phase Brushless DC Motor Driver Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 Nisshinbo Micro Devices Main Business Overview
13.4.5 Nisshinbo Micro Devices Latest Developments
13.5 Texas Instruments
13.5.1 Texas Instruments Company Information
13.5.2 Texas Instruments Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
13.5.3 Texas Instruments Single-phase Brushless DC Motor Driver Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 Texas Instruments Main Business Overview
13.5.5 Texas Instruments Latest Developments
13.6 Monolithic Power Systems
13.6.1 Monolithic Power Systems Company Information
13.6.2 Monolithic Power Systems Single-phase Brushless DC Motor Driver Product Portfolios and Specifications

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info@marketpublishers.com

13.6.3 Monolithic Power Systems Single-phase Brushless DC Motor Driver Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 Monolithic Power Systems Main Business Overview
13.6.5 Monolithic Power Systems Latest Developments
13.7 Onsemi
13.7.1 Onsemi Company Information
13.7.2 Onsemi Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
13.7.3 Onsemi Single-phase Brushless DC Motor Driver Sales, Revenue, Price and Gross Margin (2020-2025)
13.7.4 Onsemi Main Business Overview
13.7.5 Onsemi Latest Developments
13.8 Diodes Incorporated
13.8.1 Diodes Incorporated Company Information
13.8.2 Diodes Incorporated Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
13.8.3 Diodes Incorporated Single-phase Brushless DC Motor Driver Sales, Revenue, Price and Gross Margin (2020-2025)
13.8.4 Diodes Incorporated Main Business Overview
13.8.5 Diodes Incorporated Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Single-phase Brushless DC Motor Driver Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. Single-phase Brushless DC Motor Driver Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of Device-level Drive
Table 4. Major Players of Modular Drive
Table 5. Major Players of Control Integrated Drive
Table 6. Global Single-phase Brushless DC Motor Driver Sales by Type (2020-2025) & (K Units)
Table 7. Global Single-phase Brushless DC Motor Driver Sales Market Share by Type (2020-2025)
Table 8. Global Single-phase Brushless DC Motor Driver Revenue by Type (2020-2025) & ($ million)
Table 9. Global Single-phase Brushless DC Motor Driver Revenue Market Share by Type (2020-2025)
Table 10. Global Single-phase Brushless DC Motor Driver Sale Price by Type (2020-2025) & (US$/Unit)
Table 11. Global Single-phase Brushless DC Motor Driver Sale by Application (2020-2025) & (K Units)
Table 12. Global Single-phase Brushless DC Motor Driver Sale Market Share by Application (2020-2025)
Table 13. Global Single-phase Brushless DC Motor Driver Revenue by Application (2020-2025) & ($ million)
Table 14. Global Single-phase Brushless DC Motor Driver Revenue Market Share by Application (2020-2025)
Table 15. Global Single-phase Brushless DC Motor Driver Sale Price by Application (2020-2025) & (US$/Unit)
Table 16. Global Single-phase Brushless DC Motor Driver Sales by Company (2020-2025) & (K Units)
Table 17. Global Single-phase Brushless DC Motor Driver Sales Market Share by Company (2020-2025)
Table 18. Global Single-phase Brushless DC Motor Driver Revenue by Company (2020-2025) & ($ millions)
Table 19. Global Single-phase Brushless DC Motor Driver Revenue Market Share by Company (2020-2025)

+357 96 030922
info@marketpublishers.com

Table 20. Global Single-phase Brushless DC Motor Driver Sale Price by Company (2020-2025) & (US$/Unit)
Table 21. Key Manufacturers Single-phase Brushless DC Motor Driver Producing Area Distribution and Sales Area
Table 22. Players Single-phase Brushless DC Motor Driver Products Offered
Table 23. Single-phase Brushless DC Motor Driver Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 24. New Products and Potential Entrants
Table 25. Market M&A Activity & Strategy
Table 26. Global Single-phase Brushless DC Motor Driver Sales by Geographic Region (2020-2025) & (K Units)
Table 27. Global Single-phase Brushless DC Motor Driver Sales Market Share Geographic Region (2020-2025)
Table 28. Global Single-phase Brushless DC Motor Driver Revenue by Geographic Region (2020-2025) & ($ millions)
Table 29. Global Single-phase Brushless DC Motor Driver Revenue Market Share by Geographic Region (2020-2025)
Table 30. Global Single-phase Brushless DC Motor Driver Sales by Country/Region (2020-2025) & (K Units)
Table 31. Global Single-phase Brushless DC Motor Driver Sales Market Share by Country/Region (2020-2025)
Table 32. Global Single-phase Brushless DC Motor Driver Revenue by Country/Region (2020-2025) & ($ millions)
Table 33. Global Single-phase Brushless DC Motor Driver Revenue Market Share by Country/Region (2020-2025)
Table 34. Americas Single-phase Brushless DC Motor Driver Sales by Country (2020-2025) & (K Units)
Table 35. Americas Single-phase Brushless DC Motor Driver Sales Market Share by Country (2020-2025)
Table 36. Americas Single-phase Brushless DC Motor Driver Revenue by Country (2020-2025) & ($ millions)
Table 37. Americas Single-phase Brushless DC Motor Driver Sales by Type (2020-2025) & (K Units)
Table 38. Americas Single-phase Brushless DC Motor Driver Sales by Application (2020-2025) & (K Units)
Table 39. APAC Single-phase Brushless DC Motor Driver Sales by Region (2020-2025) & (K Units)
Table 40. APAC Single-phase Brushless DC Motor Driver Sales Market Share by Region (2020-2025)

+357 96 030922
info@marketpublishers.com

Table 41. APAC Single-phase Brushless DC Motor Driver Revenue by Region (2020-2025) & ($ millions)
Table 42. APAC Single-phase Brushless DC Motor Driver Sales by Type (2020-2025) & (K Units)
Table 43. APAC Single-phase Brushless DC Motor Driver Sales by Application (2020-2025) & (K Units)
Table 44. Europe Single-phase Brushless DC Motor Driver Sales by Country (2020-2025) & (K Units)
Table 45. Europe Single-phase Brushless DC Motor Driver Revenue by Country (2020-2025) & ($ millions)
Table 46. Europe Single-phase Brushless DC Motor Driver Sales by Type (2020-2025) & (K Units)
Table 47. Europe Single-phase Brushless DC Motor Driver Sales by Application (2020-2025) & (K Units)
Table 48. Middle East & Africa Single-phase Brushless DC Motor Driver Sales by Country (2020-2025) & (K Units)
Table 49. Middle East & Africa Single-phase Brushless DC Motor Driver Revenue Market Share by Country (2020-2025)
Table 50. Middle East & Africa Single-phase Brushless DC Motor Driver Sales by Type (2020-2025) & (K Units)
Table 51. Middle East & Africa Single-phase Brushless DC Motor Driver Sales by Application (2020-2025) & (K Units)
Table 52. Key Market Drivers & Growth Opportunities of Single-phase Brushless DC Motor Driver
Table 53. Key Market Challenges & Risks of Single-phase Brushless DC Motor Driver
Table 54. Key Industry Trends of Single-phase Brushless DC Motor Driver
Table 55. Single-phase Brushless DC Motor Driver Raw Material
Table 56. Key Suppliers of Raw Materials
Table 57. Single-phase Brushless DC Motor Driver Distributors List
Table 58. Single-phase Brushless DC Motor Driver Customer List
Table 59. Global Single-phase Brushless DC Motor Driver Sales Forecast by Region (2026-2031) & (K Units)
Table 60. Global Single-phase Brushless DC Motor Driver Revenue Forecast by Region (2026-2031) & ($ millions)
Table 61. Americas Single-phase Brushless DC Motor Driver Sales Forecast by Country (2026-2031) & (K Units)
Table 62. Americas Single-phase Brushless DC Motor Driver Annual Revenue Forecast by Country (2026-2031) & ($ millions)
Table 63. APAC Single-phase Brushless DC Motor Driver Sales Forecast by Region

+357 96 030922
info@marketpublishers.com

(2026-2031) & (K Units)
Table 64. APAC Single-phase Brushless DC Motor Driver Annual Revenue Forecast by Region (2026-2031) & ($ millions)
Table 65. Europe Single-phase Brushless DC Motor Driver Sales Forecast by Country (2026-2031) & (K Units)
Table 66. Europe Single-phase Brushless DC Motor Driver Revenue Forecast by Country (2026-2031) & ($ millions)
Table 67. Middle East & Africa Single-phase Brushless DC Motor Driver Sales Forecast by Country (2026-2031) & (K Units)
Table 68. Middle East & Africa Single-phase Brushless DC Motor Driver Revenue Forecast by Country (2026-2031) & ($ millions)
Table 69. Global Single-phase Brushless DC Motor Driver Sales Forecast by Type (2026-2031) & (K Units)
Table 70. Global Single-phase Brushless DC Motor Driver Revenue Forecast by Type (2026-2031) & ($ millions)
Table 71. Global Single-phase Brushless DC Motor Driver Sales Forecast by Application (2026-2031) & (K Units)
Table 72. Global Single-phase Brushless DC Motor Driver Revenue Forecast by Application (2026-2031) & ($ millions)
Table 73. Microchip Basic Information, Single-phase Brushless DC Motor Driver Manufacturing Base, Sales Area and Its Competitors
Table 74. Microchip Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
Table 75. Microchip Single-phase Brushless DC Motor Driver Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 76. Microchip Main Business
Table 77. Microchip Latest Developments
Table 78. Power Motor Basic Information, Single-phase Brushless DC Motor Driver Manufacturing Base, Sales Area and Its Competitors
Table 79. Power Motor Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
Table 80. Power Motor Single-phase Brushless DC Motor Driver Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 81. Power Motor Main Business
Table 82. Power Motor Latest Developments
Table 83. ROHM Basic Information, Single-phase Brushless DC Motor Driver Manufacturing Base, Sales Area and Its Competitors
Table 84. ROHM Single-phase Brushless DC Motor Driver Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

Table 85. ROHM Single-phase Brushless DC Motor Driver Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 86. ROHM Main Business
Table 87. ROHM Latest Developments
Table 88. Nisshinbo Micro Devices Basic Information, Single-phase Brushless DC Motor Driver Manufacturing Base, Sales Area and Its Competitors
Table 89. Nisshinbo Micro Devices Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
Table 90. Nisshinbo Micro Devices Single-phase Brushless DC Motor Driver Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 91. Nisshinbo Micro Devices Main Business
Table 92. Nisshinbo Micro Devices Latest Developments
Table 93. Texas Instruments Basic Information, Single-phase Brushless DC Motor Driver Manufacturing Base, Sales Area and Its Competitors
Table 94. Texas Instruments Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
Table 95. Texas Instruments Single-phase Brushless DC Motor Driver Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 96. Texas Instruments Main Business
Table 97. Texas Instruments Latest Developments
Table 98. Monolithic Power Systems Basic Information, Single-phase Brushless DC Motor Driver Manufacturing Base, Sales Area and Its Competitors
Table 99. Monolithic Power Systems Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
Table 100. Monolithic Power Systems Single-phase Brushless DC Motor Driver Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 101. Monolithic Power Systems Main Business
Table 102. Monolithic Power Systems Latest Developments
Table 103. Onsemi Basic Information, Single-phase Brushless DC Motor Driver Manufacturing Base, Sales Area and Its Competitors
Table 104. Onsemi Single-phase Brushless DC Motor Driver Product Portfolios and Specifications
Table 105. Onsemi Single-phase Brushless DC Motor Driver Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 106. Onsemi Main Business
Table 107. Onsemi Latest Developments
Table 108. Diodes Incorporated Basic Information, Single-phase Brushless DC Motor Driver Manufacturing Base, Sales Area and Its Competitors
Table 109. Diodes Incorporated Single-phase Brushless DC Motor Driver Product

+357 96 030922
info@marketpublishers.com

Portfolios and Specifications
Table 110. Diodes Incorporated Single-phase Brushless DC Motor Driver Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 111. Diodes Incorporated Main Business
Table 112. Diodes Incorporated Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Single-phase Brushless DC Motor Driver
Figure 2. Single-phase Brushless DC Motor Driver Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Single-phase Brushless DC Motor Driver Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global Single-phase Brushless DC Motor Driver Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. Single-phase Brushless DC Motor Driver Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. Single-phase Brushless DC Motor Driver Sales Market Share by Country/Region (2024)
Figure 10. Single-phase Brushless DC Motor Driver Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of Device-level Drive
Figure 12. Product Picture of Modular Drive
Figure 13. Product Picture of Control Integrated Drive
Figure 14. Global Single-phase Brushless DC Motor Driver Sales Market Share by Type in 2025
Figure 15. Global Single-phase Brushless DC Motor Driver Revenue Market Share by Type (2020-2025)
Figure 16. Single-phase Brushless DC Motor Driver Consumed in Automotive
Figure 17. Global Single-phase Brushless DC Motor Driver Market: Automotive (2020-2025) & (K Units)
Figure 18. Single-phase Brushless DC Motor Driver Consumed in Electronics
Figure 19. Global Single-phase Brushless DC Motor Driver Market: Electronics (2020-2025) & (K Units)
Figure 20. Single-phase Brushless DC Motor Driver Consumed in UAV
Figure 21. Global Single-phase Brushless DC Motor Driver Market: UAV (2020-2025) & (K Units)
Figure 22. Single-phase Brushless DC Motor Driver Consumed in Industrial
Figure 23. Global Single-phase Brushless DC Motor Driver Market: Industrial (2020-2025) & (K Units)
Figure 24. Single-phase Brushless DC Motor Driver Consumed in Others

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Figure 25. Global Single-phase Brushless DC Motor Driver Market: Others (2020-2025) & (K Units)
Figure 26. Global Single-phase Brushless DC Motor Driver Sale Market Share by Application (2024)
Figure 27. Global Single-phase Brushless DC Motor Driver Revenue Market Share by Application in 2025
Figure 28. Single-phase Brushless DC Motor Driver Sales by Company in 2025 (K Units)
Figure 29. Global Single-phase Brushless DC Motor Driver Sales Market Share by Company in 2025
Figure 30. Single-phase Brushless DC Motor Driver Revenue by Company in 2025 ($ millions)
Figure 31. Global Single-phase Brushless DC Motor Driver Revenue Market Share by Company in 2025
Figure 32. Global Single-phase Brushless DC Motor Driver Sales Market Share by Geographic Region (2020-2025)
Figure 33. Global Single-phase Brushless DC Motor Driver Revenue Market Share by Geographic Region in 2025
Figure 34. Americas Single-phase Brushless DC Motor Driver Sales 2020-2025 (K Units)
Figure 35. Americas Single-phase Brushless DC Motor Driver Revenue 2020-2025 ($ millions)
Figure 36. APAC Single-phase Brushless DC Motor Driver Sales 2020-2025 (K Units)
Figure 37. APAC Single-phase Brushless DC Motor Driver Revenue 2020-2025 ($ millions)
Figure 38. Europe Single-phase Brushless DC Motor Driver Sales 2020-2025 (K Units)
Figure 39. Europe Single-phase Brushless DC Motor Driver Revenue 2020-2025 ($ millions)
Figure 40. Middle East & Africa Single-phase Brushless DC Motor Driver Sales 2020-2025 (K Units)
Figure 41. Middle East & Africa Single-phase Brushless DC Motor Driver Revenue 2020-2025 ($ millions)
Figure 42. Americas Single-phase Brushless DC Motor Driver Sales Market Share by Country in 2025
Figure 43. Americas Single-phase Brushless DC Motor Driver Revenue Market Share by Country (2020-2025)
Figure 44. Americas Single-phase Brushless DC Motor Driver Sales Market Share by Type (2020-2025)
Figure 45. Americas Single-phase Brushless DC Motor Driver Sales Market Share by

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Application (2020-2025)
Figure 46. United States Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 47. Canada Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 48. Mexico Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 49. Brazil Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 50. APAC Single-phase Brushless DC Motor Driver Sales Market Share by Region in 2025
Figure 51. APAC Single-phase Brushless DC Motor Driver Revenue Market Share by Region (2020-2025)
Figure 52. APAC Single-phase Brushless DC Motor Driver Sales Market Share by Type (2020-2025)
Figure 53. APAC Single-phase Brushless DC Motor Driver Sales Market Share by Application (2020-2025)
Figure 54. China Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 55. Japan Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 56. South Korea Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 57. Southeast Asia Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 58. India Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 59. Australia Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 60. China Taiwan Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 61. Europe Single-phase Brushless DC Motor Driver Sales Market Share by Country in 2025
Figure 62. Europe Single-phase Brushless DC Motor Driver Revenue Market Share by Country (2020-2025)
Figure 63. Europe Single-phase Brushless DC Motor Driver Sales Market Share by Type (2020-2025)
Figure 64. Europe Single-phase Brushless DC Motor Driver Sales Market Share by Application (2020-2025)

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Figure 65. Germany Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 66. France Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 67. UK Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 68. Italy Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 69. Russia Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 70. Middle East & Africa Single-phase Brushless DC Motor Driver Sales Market Share by Country (2020-2025)
Figure 71. Middle East & Africa Single-phase Brushless DC Motor Driver Sales Market Share by Type (2020-2025)
Figure 72. Middle East & Africa Single-phase Brushless DC Motor Driver Sales Market Share by Application (2020-2025)
Figure 73. Egypt Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 74. South Africa Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 75. Israel Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 76. Turkey Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 77. GCC Countries Single-phase Brushless DC Motor Driver Revenue Growth 2020-2025 ($ millions)
Figure 78. Manufacturing Cost Structure Analysis of Single-phase Brushless DC Motor Driver in 2025
Figure 79. Manufacturing Process Analysis of Single-phase Brushless DC Motor Driver
Figure 80. Industry Chain Structure of Single-phase Brushless DC Motor Driver
Figure 81. Channels of Distribution
Figure 82. Global Single-phase Brushless DC Motor Driver Sales Market Forecast by Region (2026-2031)
Figure 83. Global Single-phase Brushless DC Motor Driver Revenue Market Share Forecast by Region (2026-2031)
Figure 84. Global Single-phase Brushless DC Motor Driver Sales Market Share Forecast by Type (2026-2031)
Figure 85. Global Single-phase Brushless DC Motor Driver Revenue Market Share Forecast by Type (2026-2031)

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Figure 86. Global Single-phase Brushless DC Motor Driver Sales Market Share Forecast by Application (2026-2031)
Figure 87. Global Single-phase Brushless DC Motor Driver Revenue Market Share Forecast by Application (2026-2031)

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