

Global Numerical Busbar Differential Protection Relay Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Numerical Busbar Differential Protection Relay market size is expected to reach \$ 373 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

Numerical Busbar Differential Protection Relay is a digital protection device that combines current differential protection principles with numerical sampling, algorithmic judgment, communication interfaces, event recording, and self-diagnostic functions. It compares multi-bay incoming and outgoing current data in real time to identify internal busbar faults, enabling fast and selective fault isolation while reducing the risk of cascading failures in substations and industrial power systems. Compared with conventional differential busbar protection relays, this product places stronger emphasis on digital signal processing, configurable protection logic, communication compatibility, remote monitoring, and integration with substation automation systems. The demand outlook remains stable, supported by smart grid construction and high-voltage transmission projects. Upstream suppliers mainly provide current transformers, chips, and control modules, including Infineon, STMicroelectronics, and ROHM Semiconductor. The midstream focuses on protection relay assembly, numerical algorithm configuration, communication testing, system calibration, and reliability verification. The downstream primarily serves the industrial and energy sectors, with representative users such as Siemens Energy, State Grid Corporation of China, and Mitsubishi Electric Energy Systems. In 2025, production was 100,000 units and the average price was USD 2,500 per unit. The industry's capacity utilization rate in 2025 was about 70%, and the average gross margin was around 35%.

Numerical Busbar Differential Protection Relay demand will be driven by substation digitalization and the need for faster, more selective busbar fault isolation. In

transmission grids, renewable energy substations, industrial power networks, and large data centers, a busbar fault can affect multiple feeders, so protection devices must combine high-speed differential judgment with reliable digital sampling, event recording, communication interfaces, and self-diagnosis. Compared with conventional relays, numerical products are better suited for automated substations and complex grid operation. Future competition will focus on algorithm accuracy, current transformer saturation handling, communication compatibility, cybersecurity, system integration, and lifecycle reliability.

This report studies the global Numerical Busbar Differential Protection Relay production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Numerical Busbar Differential Protection Relay and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Numerical Busbar Differential Protection Relay that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Numerical Busbar Differential Protection Relay total production and demand, 2021-2032, (K Units)

Global Numerical Busbar Differential Protection Relay total production value, 2021-2032, (USD Million)

Global Numerical Busbar Differential Protection Relay production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Numerical Busbar Differential Protection Relay consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Numerical Busbar Differential Protection Relay domestic production, consumption, key domestic manufacturers and share

Global Numerical Busbar Differential Protection Relay production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Numerical Busbar Differential Protection Relay production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Numerical Busbar Differential Protection Relay production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Numerical Busbar Differential Protection

Relay market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB (Switzerland), Siemens (Germany), Schneider Electric (France), Hitachi Energy (Switzerland), GE Vernova (USA), NR Electric (China), NARI Technology (China), Beijing Sifang Automation (China), XJ Electric (China), Guodian Nanjing Automation (China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Numerical Busbar Differential Protection Relay market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Numerical Busbar Differential Protection Relay Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Numerical Busbar Differential Protection Relay Market, Segmentation by Type:

Single-Busbar Differential Protection Relay

Double-Busbar Differential Protection Relay

Others

Global Numerical Busbar Differential Protection Relay Market, Segmentation by Voltage:

Voltage?35kV

35kV

Contents

1 SUPPLY SUMMARY

1.1 Numerical Busbar Differential Protection Relay Introduction

1.2 World Numerical Busbar Differential Protection Relay Supply & Forecast

1.2.1 World Numerical Busbar Differential Protection Relay Production Value (2021 & 2025 & 2032)

1.2.2 World Numerical Busbar Differential Protection Relay Production (2021-2032)

1.2.3 World Numerical Busbar Differential Protection Relay Pricing Trends (2021-2032)

1.3 World Numerical Busbar Differential Protection Relay Production by Region (Based on Production Site)

1.3.1 World Numerical Busbar Differential Protection Relay Production Value by Region (2021-2032)

1.3.2 World Numerical Busbar Differential Protection Relay Production by Region (2021-2032)

1.3.3 World Numerical Busbar Differential Protection Relay Average Price by Region (2021-2032)

1.3.4 North America Numerical Busbar Differential Protection Relay Production (2021-2032)

1.3.5 Europe Numerical Busbar Differential Protection Relay Production (2021-2032)

1.3.6 China Numerical Busbar Differential Protection Relay Production (2021-2032)

1.3.7 Japan Numerical Busbar Differential Protection Relay Production (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 Numerical Busbar Differential Protection Relay Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 Numerical Busbar Differential Protection Relay Major Market Trends

2 DEMAND SUMMARY

2.1 World Numerical Busbar Differential Protection Relay Demand (2021-2032)

2.2 World Numerical Busbar Differential Protection Relay Consumption by Region

2.2.1 World Numerical Busbar Differential Protection Relay Consumption by Region (2021-2026)

2.2.2 World Numerical Busbar Differential Protection Relay Consumption Forecast by Region (2027-2032)

2.3 United States Numerical Busbar Differential Protection Relay Consumption (2021-2032)

- 2.4 China Numerical Busbar Differential Protection Relay Consumption (2021-2032)
- 2.5 Europe Numerical Busbar Differential Protection Relay Consumption (2021-2032)
- 2.6 Japan Numerical Busbar Differential Protection Relay Consumption (2021-2032)
- 2.7 South Korea Numerical Busbar Differential Protection Relay Consumption (2021-2032)
- 2.8 ASEAN Numerical Busbar Differential Protection Relay Consumption (2021-2032)
- 2.9 India Numerical Busbar Differential Protection Relay Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Numerical Busbar Differential Protection Relay Production Value by Manufacturer (2021-2026)
- 3.2 World Numerical Busbar Differential Protection Relay Production by Manufacturer (2021-2026)
- 3.3 World Numerical Busbar Differential Protection Relay Average Price by Manufacturer (2021-2026)
- 3.4 Numerical Busbar Differential Protection Relay Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Numerical Busbar Differential Protection Relay Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Numerical Busbar Differential Protection Relay in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Numerical Busbar Differential Protection Relay in 2025
- 3.6 Numerical Busbar Differential Protection Relay Market: Overall Company Footprint Analysis
 - 3.6.1 Numerical Busbar Differential Protection Relay Market: Region Footprint
 - 3.6.2 Numerical Busbar Differential Protection Relay Market: Company Product Type Footprint
 - 3.6.3 Numerical Busbar Differential Protection Relay Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Numerical Busbar Differential Protection Relay Production Value Comparison

4.1.1 United States VS China: Numerical Busbar Differential Protection Relay Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Numerical Busbar Differential Protection Relay Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Numerical Busbar Differential Protection Relay Production Comparison

4.2.1 United States VS China: Numerical Busbar Differential Protection Relay Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Numerical Busbar Differential Protection Relay Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Numerical Busbar Differential Protection Relay Consumption Comparison

4.3.1 United States VS China: Numerical Busbar Differential Protection Relay Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Numerical Busbar Differential Protection Relay Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Numerical Busbar Differential Protection Relay Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Numerical Busbar Differential Protection Relay Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Numerical Busbar Differential Protection Relay Production Value (2021-2026)

4.4.3 United States Based Manufacturers Numerical Busbar Differential Protection Relay Production (2021-2026)

4.5 China Based Numerical Busbar Differential Protection Relay Manufacturers and Market Share

4.5.1 China Based Numerical Busbar Differential Protection Relay Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Numerical Busbar Differential Protection Relay Production Value (2021-2026)

4.5.3 China Based Manufacturers Numerical Busbar Differential Protection Relay Production (2021-2026)

4.6 Rest of World Based Numerical Busbar Differential Protection Relay Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Numerical Busbar Differential Protection Relay Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Numerical Busbar Differential Protection Relay Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Numerical Busbar Differential Protection Relay Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Numerical Busbar Differential Protection Relay Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-Busbar Differential Protection Relay

5.2.2 Double-Busbar Differential Protection Relay

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Numerical Busbar Differential Protection Relay Production by Type (2021-2032)

5.3.2 World Numerical Busbar Differential Protection Relay Production Value by Type (2021-2032)

5.3.3 World Numerical Busbar Differential Protection Relay Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY VOLTAGE

6.1 World Numerical Busbar Differential Protection Relay Market Size Overview by Voltage: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Voltage

6.2.1 Voltage?35kV

6.2.2 35kV

List Of Tables

LIST OF TABLES

Table 1. World Numerical Busbar Differential Protection Relay Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Numerical Busbar Differential Protection Relay Production Value by Region (2021-2026) & (USD Million)

Table 3. World Numerical Busbar Differential Protection Relay Production Value by Region (2027-2032) & (USD Million)

Table 4. World Numerical Busbar Differential Protection Relay Production Value Market Share by Region (2021-2026)

Table 5. World Numerical Busbar Differential Protection Relay Production Value Market Share by Region (2027-2032)

Table 6. World Numerical Busbar Differential Protection Relay Production by Region (2021-2026) & (K Units)

Table 7. World Numerical Busbar Differential Protection Relay Production by Region (2027-2032) & (K Units)

Table 8. World Numerical Busbar Differential Protection Relay Production Market Share by Region (2021-2026)

Table 9. World Numerical Busbar Differential Protection Relay Production Market Share by Region (2027-2032)

Table 10. World Numerical Busbar Differential Protection Relay Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Numerical Busbar Differential Protection Relay Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Numerical Busbar Differential Protection Relay Major Market Trends

Table 13. World Numerical Busbar Differential Protection Relay Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Numerical Busbar Differential Protection Relay Consumption by Region (2021-2026) & (K Units)

Table 15. World Numerical Busbar Differential Protection Relay Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Numerical Busbar Differential Protection Relay Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Numerical Busbar Differential Protection Relay Producers in 2025

Table 18. World Numerical Busbar Differential Protection Relay Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Numerical Busbar Differential Protection Relay Producers in 2025

Table 20. World Numerical Busbar Differential Protection Relay Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Numerical Busbar Differential Protection Relay Company Evaluation Quadrant

Table 22. World Numerical Busbar Differential Protection Relay Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Numerical Busbar Differential Protection Relay Production Site of Key Manufacturer

Table 24. Numerical Busbar Differential Protection Relay Market: Company Product Type Footprint

Table 25. Numerical Busbar Differential Protection Relay Market: Company Product Application Footprint

Table 26. Numerical Busbar Differential Protection Relay Competitive Factors

Table 27. Numerical Busbar Differential Protection Relay New Entrant and Capacity Expansion Plans

Table 28. Numerical Busbar Differential Protection Relay Mergers & Acquisitions Activity

Table 29. United States VS China Numerical Busbar Differential Protection Relay Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Numerical Busbar Differential Protection Relay Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Numerical Busbar Differential Protection Relay Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Numerical Busbar Differential Protection Relay Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Numerical Busbar Differential Protection Relay Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Numerical Busbar Differential Protection Relay Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Numerical Busbar Differential Protection Relay Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Numerical Busbar Differential Protection Relay Production Market Share (2021-2026)

Table 37. China Based Numerical Busbar Differential Protection Relay Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Numerical Busbar Differential Protection Relay Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Numerical Busbar Differential Protection Relay Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Numerical Busbar Differential Protection Relay Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Numerical Busbar Differential Protection Relay Production Market Share (2021-2026)

Table 42. Rest of World Based Numerical Busbar Differential Protection Relay Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Numerical Busbar Differential Protection Relay Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Numerical Busbar Differential Protection Relay Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Numerical Busbar Differential Protection Relay Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Numerical Busbar Differential Protection Relay Production Market Share (2021-2026)

Table 47. World Numerical Busbar Differential Protection Relay Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Numerical Busbar Differential Protection Relay Production by Type (2021-2026) & (K Units)

Table 49. World Numerical Busbar Differential Protection Relay Production by Type (2027-2032) & (K Units)

Table 50. World Numerical Busbar Differential Protection Relay Production Value by Type (2021-2026) & (USD Million)

Table 51. World Numerical Busbar Differential Protection Relay Production Value by Type (2027-2032) & (USD Million)

Table 52. World Numerical Busbar Differential Protection Relay Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Numerical Busbar Differential Protection Relay Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Numerical Busbar Differential Protection Relay Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Table 55. World Numerical Busbar Differential Protection Relay Production by Voltage (2021-2026) & (K Units)

Table 56. World Numerical Busbar Differential Protection Relay Production by Voltage (2027-2032) & (K Units)

Table 57. World Numerical Busbar Differential Protection Relay Production Value by Voltage (2021-2026) & (USD Million)

Table 58. World Numerical Busbar Differential Protection Relay Production Value by

Voltage (2027-2032) & (USD Million)

Table 59. World Numerical Busbar Differential Protection Relay Average Price by Voltage (2021-2026) & (US\$/Unit)

Table 60. World Numerical Busbar Differential Protection Relay Average Price by Voltage (2027-2032) & (US\$/Unit)

Table 61. World Numerical Busbar Differential Protection Relay Production Value by Communication Protocol, (USD Million), 2021 & 2025 & 2032

Table 62. World Numerical Busbar Differential Protection Relay Production by Communication Protocol (2021-2026) & (K Units)

Table 63. World Numerical Busbar Differential Protection Relay Production by Communication Protocol (2027-2032) & (K Units)

Table 64. World Numerical Busbar Differential Protection Relay Production Value by Communication Protocol (2021-2026) & (USD Million)

Table 65. World Numerical Busbar Differential Protection Relay Production Value by Communication Protocol (2027-2032) & (USD Million)

Table 66. World Numerical Busbar Differential Protection Relay Average Price by Communication Protocol (2021-2026) & (US\$/Unit)

Table 67. World Numerical Busbar Differential Protection Relay Average Price by Communication Protocol (2027-2032) & (US\$/Unit)

Table 68. World Numerical Busbar Differential Protection Relay Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Numerical Busbar Differential Protection Relay Production by Application (2021-2026) & (K Units)

Table 70. World Numerical Busbar Differential Protection Relay Production by Application (2027-2032) & (K Units)

Table 71. World Numerical Busbar Differential Protection Relay Production Value by Application (2021-2026) & (USD Million)

Table 72. World Numerical Busbar Differential Protection Relay Production Value by Application (2027-2032) & (USD Million)

Table 73. World Numerical Busbar Differential Protection Relay Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Numerical Busbar Differential Protection Relay Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. ABB (Switzerland) Basic Information, Manufacturing Base and Competitors

Table 76. ABB (Switzerland) Major Business

Table 77. ABB (Switzerland) Numerical Busbar Differential Protection Relay Product and Services

Table 78. ABB (Switzerland) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 79. ABB (Switzerland) Recent Developments/Updates

Table 80. ABB (Switzerland) Competitive Strengths & Weaknesses

Table 81. Siemens (Germany) Basic Information, Manufacturing Base and Competitors

Table 82. Siemens (Germany) Major Business

Table 83. Siemens (Germany) Numerical Busbar Differential Protection Relay Product and Services

Table 84. Siemens (Germany) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Siemens (Germany) Recent Developments/Updates

Table 86. Siemens (Germany) Competitive Strengths & Weaknesses

Table 87. Schneider Electric (France) Basic Information, Manufacturing Base and Competitors

Table 88. Schneider Electric (France) Major Business

Table 89. Schneider Electric (France) Numerical Busbar Differential Protection Relay Product and Services

Table 90. Schneider Electric (France) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Schneider Electric (France) Recent Developments/Updates

Table 92. Schneider Electric (France) Competitive Strengths & Weaknesses

Table 93. Hitachi Energy (Switzerland) Basic Information, Manufacturing Base and Competitors

Table 94. Hitachi Energy (Switzerland) Major Business

Table 95. Hitachi Energy (Switzerland) Numerical Busbar Differential Protection Relay Product and Services

Table 96. Hitachi Energy (Switzerland) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Hitachi Energy (Switzerland) Recent Developments/Updates

Table 98. Hitachi Energy (Switzerland) Competitive Strengths & Weaknesses

Table 99. GE Vernova (USA) Basic Information, Manufacturing Base and Competitors

Table 100. GE Vernova (USA) Major Business

Table 101. GE Vernova (USA) Numerical Busbar Differential Protection Relay Product and Services

Table 102. GE Vernova (USA) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. GE Vernova (USA) Recent Developments/Updates

Table 104. GE Vernova (USA) Competitive Strengths & Weaknesses

Table 105. NR Electric (China) Basic Information, Manufacturing Base and Competitors

Table 106. NR Electric (China) Major Business

Table 107. NR Electric (China) Numerical Busbar Differential Protection Relay Product and Services

Table 108. NR Electric (China) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. NR Electric (China) Recent Developments/Updates

Table 110. NR Electric (China) Competitive Strengths & Weaknesses

Table 111. NARI Technology (China) Basic Information, Manufacturing Base and Competitors

Table 112. NARI Technology (China) Major Business

Table 113. NARI Technology (China) Numerical Busbar Differential Protection Relay Product and Services

Table 114. NARI Technology (China) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. NARI Technology (China) Recent Developments/Updates

Table 116. NARI Technology (China) Competitive Strengths & Weaknesses

Table 117. Beijing Sifang Automation (China) Basic Information, Manufacturing Base and Competitors

Table 118. Beijing Sifang Automation (China) Major Business

Table 119. Beijing Sifang Automation (China) Numerical Busbar Differential Protection Relay Product and Services

Table 120. Beijing Sifang Automation (China) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Beijing Sifang Automation (China) Recent Developments/Updates

Table 122. Beijing Sifang Automation (China) Competitive Strengths & Weaknesses

Table 123. XJ Electric (China) Basic Information, Manufacturing Base and Competitors

Table 124. XJ Electric (China) Major Business

Table 125. XJ Electric (China) Numerical Busbar Differential Protection Relay Product and Services

Table 126. XJ Electric (China) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. XJ Electric (China) Recent Developments/Updates

Table 128. XJ Electric (China) Competitive Strengths & Weaknesses
Table 129. Guodian Nanjing Automation (China) Basic Information, Manufacturing Base and Competitors
Table 130. Guodian Nanjing Automation (China) Major Business
Table 131. Guodian Nanjing Automation (China) Numerical Busbar Differential Protection Relay Product and Services
Table 132. Guodian Nanjing Automation (China) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Guodian Nanjing Automation (China) Recent Developments/Updates
Table 134. Guodian Nanjing Automation (China) Competitive Strengths & Weaknesses
Table 135. CYG SUNRI (China) Basic Information, Manufacturing Base and Competitors
Table 136. CYG SUNRI (China) Major Business
Table 137. CYG SUNRI (China) Numerical Busbar Differential Protection Relay Product and Services
Table 138. CYG SUNRI (China) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. CYG SUNRI (China) Recent Developments/Updates
Table 140. CYG SUNRI (China) Competitive Strengths & Weaknesses
Table 141. Toshiba (Japan) Basic Information, Manufacturing Base and Competitors
Table 142. Toshiba (Japan) Major Business
Table 143. Toshiba (Japan) Numerical Busbar Differential Protection Relay Product and Services
Table 144. Toshiba (Japan) Numerical Busbar Differential Protection Relay Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Toshiba (Japan) Recent Developments/Updates
Table 146. Toshiba (Japan) Competitive Strengths & Weaknesses
Table 147. Global Key Players of Numerical Busbar Differential Protection Relay Upstream (Raw Materials)
Table 148. Global Numerical Busbar Differential Protection Relay Typical Customers
Table 149. Numerical Busbar Differential Protection Relay Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Numerical Busbar Differential Protection Relay Picture
- Figure 2. World Numerical Busbar Differential Protection Relay Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Numerical Busbar Differential Protection Relay Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Numerical Busbar Differential Protection Relay Production (2021-2032) & (K Units)
- Figure 5. World Numerical Busbar Differential Protection Relay Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Numerical Busbar Differential Protection Relay Production Value Market Share by Region (2021-2032)
- Figure 7. World Numerical Busbar Differential Protection Relay Production Market Share by Region (2021-2032)
- Figure 8. North America Numerical Busbar Differential Protection Relay Production (2021-2032) & (K Units)
- Figure 9. Europe Numerical Busbar Differential Protection Relay Production (2021-2032) & (K Units)
- Figure 10. China Numerical Busbar Differential Protection Relay Production (2021-2032) & (K Units)
- Figure 11. Japan Numerical Busbar Differential Protection Relay Production (2021-2032) & (K Units)
- Figure 12. Numerical Busbar Differential Protection Relay Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Numerical Busbar Differential Protection Relay Consumption (2021-2032) & (K Units)
- Figure 15. World Numerical Busbar Differential Protection Relay Consumption Market Share by Region (2021-2032)
- Figure 16. United States Numerical Busbar Differential Protection Relay Consumption (2021-2032) & (K Units)
- Figure 17. China Numerical Busbar Differential Protection Relay Consumption (2021-2032) & (K Units)
- Figure 18. Europe Numerical Busbar Differential Protection Relay Consumption (2021-2032) & (K Units)
- Figure 19. Japan Numerical Busbar Differential Protection Relay Consumption (2021-2032) & (K Units)

Figure 20. South Korea Numerical Busbar Differential Protection Relay Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Numerical Busbar Differential Protection Relay Consumption (2021-2032) & (K Units)

Figure 22. India Numerical Busbar Differential Protection Relay Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Numerical Busbar Differential Protection Relay by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Numerical Busbar Differential Protection Relay Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Numerical Busbar Differential Protection Relay Markets in 2025

Figure 26. United States VS China: Numerical Busbar Differential Protection Relay Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Numerical Busbar Differential Protection Relay Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Numerical Busbar Differential Protection Relay Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Numerical Busbar Differential Protection Relay Production Market Share 2025

Figure 30. China Based Manufacturers Numerical Busbar Differential Protection Relay Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Numerical Busbar Differential Protection Relay Production Market Share 2025

Figure 32. World Numerical Busbar Differential Protection Relay Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Numerical Busbar Differential Protection Relay Production Value Market Share by Type in 2025

Figure 34. Single-Busbar Differential Protection Relay

Figure 35. Double-Busbar Differential Protection Relay

Figure 36. Others

Figure 37. World Numerical Busbar Differential Protection Relay Production Market Share by Type (2021-2032)

Figure 38. World Numerical Busbar Differential Protection Relay Production Value Market Share by Type (2021-2032)

Figure 39. World Numerical Busbar Differential Protection Relay Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Numerical Busbar Differential Protection Relay Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Figure 41. World Numerical Busbar Differential Protection Relay Production Value
Market Share by Voltage in 2025

Figure 42. Voltage?35kV

Figure 43. 35kV

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