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Global Ground Fault Protection Relay Market Growth 2026-2032

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Abstracts

The global Ground Fault Protection Relay market size is predicted to grow from US$ 426 million in 2025 to US$ 644 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 2032.

Ground Fault Protection Relay refers to a protective electrical relay designed to detect unintended current flowing from energized conductors to earth or grounded conductive parts and initiate an alarm or trip signal before the fault develops into equipment damage, fire, insulation failure or electrical safety hazards. The relay typically works with a core-balance current transformer, zero-sequence current transformer or other residual-current sensing device to measure the vector sum of conductor currents, compare the detected ground-fault current with a predetermined pickup threshold and operate output contacts after an instantaneous or adjustable time delay. Commercial products range from sensitive earth-leakage relays with pickup settings below 30 mA to service-entrance and industrial ground-fault relays operating from several amperes to hundreds or more than 1,000 A. Functions may include adjustable pickup current, time-delay coordination, pre-alarm, self-test, digital indication, fault memory, relay outputs and industrial communications. The research scope focuses on standalone ground-fault protection, earth-leakage and residual-current relays, together with dedicated sensing-and-relay assemblies used for power distribution, machinery, motors and drives, generators, transformers, buildings, data centers, renewable-energy systems, transportation infrastructure and marine electrical systems.

Key Findings

The global average manufacturer-level selling price reached approximately US$315 per unit in 2025

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Residual-current and zero-sequence sensing architectures remain the mainstream technical solutions

Power distribution and industrial electrical systems represent the principal downstream demand

Digital monitoring, adjustable protection and communication capability are increasing their share of new installations

Market Trends

The Ground Fault Protection Relay industry is developing from relatively simple analog trip devices toward configurable digital protection and condition-monitoring platforms. Traditional products primarily detect residual current through zero-sequence or core-balance current transformers and provide a trip contact when the preset threshold is exceeded, while newer relays increasingly combine adjustable pickup thresholds, multi-stage time delays, pre-alarm outputs, digital displays, fault-memory functions, self-diagnostics and network communications. Commercial product ranges illustrate a very broad protection spectrum: sensitive leakage relays commonly start at approximately 30 mA, while service-entrance relays can support pickup values extending into hundreds or more than 1,000 A depending on current-transformer ratios and system architecture. Schneider Electric's Vigirex range, for example, provides ground-fault protection or monitoring between 30 mA and 30 A, while Bender's CMGF420 supports service-entrance applications with pickup ranges extending to 1,200 A. Increasing use of variable-frequency drives, power electronics, photovoltaic inverters, battery systems and electric-vehicle charging equipment is also raising demand for relays capable of handling distorted waveforms, harmonics and AC/DC residual-current components. Longer term, product differentiation will increasingly center on measurement accuracy, selective coordination, immunity to nuisance tripping, digital connectivity, predictive insulation monitoring and integration with intelligent low-voltage distribution systems.

Market Dynamics

Drivers

Growth is supported by continued expansion and modernization of electrical distribution infrastructure, industrial automation, data centers, renewable-energy installations and electrically intensive commercial facilities. Ground faults can cause fires, equipment

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damage, unexpected shutdowns and personnel hazards, making rapid detection particularly important in high-current distribution systems and continuously operated industrial loads. Electrical-system modernization is also increasing the installed base of molded-case and air circuit breakers that can be paired with external ground-fault relays and current transformers. Industrial facilities increasingly require selective protection that isolates only the affected feeder or machine rather than shutting down an entire distribution network. Fuji Electric, for example, offers earth-leakage protective relays specifically intended for use with molded-case circuit breakers, air circuit breakers and motor starters, while Mitsubishi Electric positions leakage relays for large-capacity circuits and motor-control centers.

Restraints

Market expansion is constrained by competition from circuit breakers with integrated electronic trip units, RCCBs, RCBOs and other protection devices that incorporate ground-fault or leakage-current protection directly into the switching device. In many low-current commercial and residential circuits, these integrated products reduce the need for a separate relay. Ground-fault relay selection also requires coordination among current-transformer characteristics, pickup current, system grounding method, circuit-breaker trip mechanism and delay settings, increasing engineering complexity compared with integrated protective devices. Long replacement cycles in switchboards and industrial distribution equipment further limit recurring unit demand, while highly price-sensitive applications may continue to favor conventional analog relays with limited functionality.

Opportunities

The strongest opportunities are developing in intelligent low-voltage distribution, data centers, renewable energy, energy storage, electric-vehicle charging, industrial automation and critical infrastructure. These applications increasingly require both protection and continuous leakage-current visibility, creating opportunities for relays that provide pre-alarm functions, event recording, digital indication and communication interfaces in addition to conventional trip outputs. Type B and other advanced residual-current detection technologies are particularly relevant where power-electronic equipment can generate smooth DC or mixed-frequency leakage currents. Socomec, for example, offers Type A and Type B earth-leakage relay platforms with configurable protection and monitoring capabilities. Retrofit projects also provide a significant opportunity because standalone relays and current transformers can add ground-fault protection to existing switchboards without complete replacement of the installed distribution equipment.

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Challenges

Manufacturers must maintain reliable fault detection while avoiding nuisance trips caused by switching transients, harmonics, capacitive leakage, variable-frequency drives and distributed power-electronic loads. The increasing diversity of electrical architectures makes this balance more difficult because actual residual-current waveforms can differ substantially between conventional AC systems and inverter-based installations. Products must also satisfy different regional electrical codes, certification requirements and coordination practices, while supporting a wide range of current-transformer ratios and breaker interfaces. At the same time, digital products introduce additional requirements for communication reliability, electromagnetic compatibility, cybersecurity and long-term firmware support. Suppliers therefore need to combine protection expertise, sensing accuracy, certification capability and application engineering rather than compete solely on relay hardware cost.

Industry Chain Analysis

The upstream of the Ground Fault Protection Relay industry includes zero-sequence and core-balance current transformers, magnetic cores, Hall or residual-current sensing components, signal-conditioning integrated circuits, microcontrollers, analog-to-digital converters, power supplies, electromechanical relays, displays, communication chips, printed circuit boards, terminals, plastic housings and other electronic components. Midstream manufacturers focus on residual-current measurement, protection algorithms, pickup and time-delay control, electromagnetic compatibility design, relay-output integration, human-machine interfaces, communication functions, firmware, calibration, assembly and electrical-safety certification. Depending on the architecture, manufacturers may supply the protection relay separately or as a coordinated package with dedicated current transformers and accessories. Downstream customers include switchgear manufacturers, panel builders, industrial OEMs, electrical contractors, utilities, factories, commercial buildings, data centers, renewable-energy facilities, transportation infrastructure operators and marine electrical-system providers. Value creation is concentrated in accurate current detection, reliable trip performance, selective coordination, immunity to nuisance operation, waveform recognition, certification, compact installation and integration with wider electrical-monitoring and automation systems.

Segment Insights

By protection function, the market can be divided into ground-fault trip relays, ground-

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fault alarm relays, ground-fault monitoring relays, combined ground-fault and leakage relays and other specialized products. Trip relays remain the core segment because they provide direct protection by commanding a breaker, contactor or shunt-trip device when fault current exceeds the configured threshold. Monitoring and combined protection products are gaining importance in critical facilities where operators increasingly require pre-alarm information and continuous visibility of insulation deterioration before automatic interruption becomes necessary.

By sensing method, core-balance current transformers, zero-sequence current transformers and residual-current measurement represent the mainstream architectures, while differential-current and direct ground-current measurement serve more specialized installations. Mitsubishi Electric explicitly uses a zero-phase current transformer with its leakage-relay platform, while Fuji Electric supplies both integrated and separated current-transformer arrangements. By pickup-current range, below 30 mA products are concentrated in highly sensitive leakage monitoring, 30–300 mA products cover personnel-adjacent and fire-protection-oriented applications, 300 mA–1 A and 1–10 A ranges are widely used in industrial equipment and distribution circuits, while above 10 A products increasingly serve larger feeders, service entrances and high-current electrical systems.

Downstream Market Opportunities

Utilities and Power Distribution represent the broadest downstream opportunity for Ground Fault Protection Relays, driven by the need for selective fault isolation across substations, switchboards, feeders and distribution panels. Industrial Manufacturing is another major demand area because factories require reliable ground-fault protection for production equipment, control panels and automated electrical systems where unplanned downtime can be costly. Commercial Buildings create steady demand through electrical distribution systems in offices, hospitals, shopping centers and other large facilities, while Data Centers and Telecommunications increasingly favor relays with pre-alarm, event-recording and remote-monitoring capabilities to support high power availability. Renewable Energy applications are becoming more technically demanding as photovoltaic inverters, energy-storage converters and related power-electronic systems introduce complex AC/DC leakage-current characteristics. Transportation applications include rail infrastructure, airports, charging facilities and other electrically intensive transport systems, while Marine and Offshore environments require ruggedized protection against leakage faults under humid, corrosive and vibration-prone operating conditions. Oil and Gas facilities require reliable ground-fault detection in process plants, terminals and field electrical systems where electrical safety

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and continuity are critical. Mining applications similarly emphasize robust protection for heavy electrical equipment, conveyors, pumps and underground or open-pit power distribution networks.

Regional Insights

Asia Pacific represents the largest volume base for Ground Fault Protection Relays, supported by extensive manufacturing activity, industrial electrical installations, infrastructure construction and a large low-voltage switchgear supply chain. China has a broad group of domestic relay and electrical-protection manufacturers competing strongly in standard residual-current and earth-leakage products, while Japan maintains a mature supplier base with strong positions in industrial control, switchgear and factory electrical systems. Mitsubishi Electric and Fuji Electric both maintain dedicated earth-leakage relay portfolios, illustrating the continued relevance of standalone protection products in the Japanese market.

North America is a major high-value market because service-entrance ground-fault protection, industrial electrical safety and large commercial facilities create demand for higher-current and certified relay systems. Europe has a particularly developed residual-current protection market and strong adoption of configurable leakage-monitoring products, with demand increasingly influenced by renewable energy, charging infrastructure, industrial automation and Type B residual-current detection. Emerging markets in Southeast Asia, the Middle East and Latin America provide additional growth potential as industrial facilities and commercial distribution systems are modernized and electrical-safety requirements become more standardized.

Competitive Landscape Analysis

The global Ground Fault Protection Relay market is fragmented across multinational electrical-equipment groups, specialist electrical-safety suppliers and regional relay manufacturers. Large diversified suppliers compete through integration with circuit breakers, switchgear and power-distribution portfolios, extensive certification coverage and global distribution networks, while specialist manufacturers differentiate through residual-current sensing expertise, service-entrance protection, adjustable coordination, AC/DC monitoring and advanced diagnostics. The competitive landscape also includes a substantial group of Japanese and European manufacturers with established earth-leakage relay product families and Chinese suppliers targeting cost-sensitive industrial and distribution applications. Product competition is shifting from basic current pickup and relay-output capability toward wider adjustment ranges, better immunity to

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harmonics and transient leakage, digital indication, pre-alarm, self-test, event memory and communication functions. At the same time, manufacturers must preserve backward compatibility with existing current transformers, breakers and panel architectures, making application engineering, certification support, distribution-channel reach and long-term product availability important competitive factors alongside price.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Ground Fault Protection Relay Industry Forecast” looks at past sales and reviews total world Ground Fault Protection Relay sales in 2025, providing a comprehensive analysis by region and market sector of projected Ground Fault Protection Relay sales for 2026 through 2032. With Ground Fault Protection Relay sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Ground Fault Protection Relay industry.

This Insight Report provides a comprehensive analysis of the global Ground Fault Protection Relay 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 Ground Fault Protection Relay portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Ground Fault Protection Relay market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ground Fault Protection Relay and breaks down the forecast by Protection Function, 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 Ground Fault Protection Relay.

This report presents a comprehensive overview, market shares, and growth opportunities of Ground Fault Protection Relay market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Protection Function:

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Ground Fault Trip Relay

Ground Fault Alarm Relay

Ground Fault Monitoring Relay

Ground Fault and Leakage Combined Relay

Others

Segmentation by Sensing Method:

Core Balance Current Transformer

Zero-sequence Current Transformer

Residual Current Measurement

Differential Current Measurement

Direct Ground Current Measurement

Others

Segmentation by Pickup Current Range:

Below 30 mA

30–300 mA

300 mA–1 A

1–10 A

Above 10 A

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Segmentation by Application:

Utilities and Power Distribution

Industrial Manufacturing

Commercial Buildings

Data Centers and Telecommunications

Renewable Energy

Transportation

Marine and Offshore

Oil and Gas

Mining

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

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

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.

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Eaton

Littelfuse

Hubbell

Schneider Electric

GE Vernova

Siemens

Bender

Altech Corporation

I-Gard

NK Technologies

ABB

SELCO USA

Orion Italia

Basler Electric

LOVATO Electric

CIRCUTOR

FRER

Mitsubishi Electric

Fuji Electric

Terasaki Electric

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Seiko Electric

Hitachi Industrial Equipment Systems

Acrel

GEYA Electrical

Chongqing Blue Jay Technology

Naidian Group

Fanox

Socomec

Carlo Gavazzi

Dossena

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ground Fault Protection Relay market?

What factors are driving Ground Fault Protection Relay market growth, globally and by region?

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

How do Ground Fault Protection Relay market opportunities vary by end market size?

How does Ground Fault Protection Relay break out by Protection Function, 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 Ground Fault Protection Relay Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Ground Fault Protection Relay by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Ground Fault Protection Relay by Country/Region, 2021, 2025 & 2032
2.2 Ground Fault Protection Relay Segment by Protection Function
  2.2.1 Ground Fault Trip Relay
  2.2.2 Ground Fault Alarm Relay
  2.2.3 Ground Fault Monitoring Relay
  2.2.4 Ground Fault and Leakage Combined Relay
  2.2.5 Others
  2.2.6 Ground Fault Protection Relay Sales by Protection Function
    2.2.6.1 Global Ground Fault Protection Relay Sales Market Share by Protection Function (2021-2026)
    2.2.6.2 Global Ground Fault Protection Relay Revenue and Market Share by Protection Function (2021-2026)
    2.2.6.3 Global Ground Fault Protection Relay Sale Price by Protection Function (2021-2026)
2.3 Ground Fault Protection Relay Segment by Sensing Method
  2.3.1 Core Balance Current Transformer
  2.3.2 Zero-sequence Current Transformer
  2.3.3 Residual Current Measurement
  2.3.4 Differential Current Measurement

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2.3.5 Direct Ground Current Measurement
2.3.6 Others
2.3.7 Ground Fault Protection Relay Sales by Sensing Method
2.3.7.1 Global Ground Fault Protection Relay Sales Market Share by Sensing Method (2021-2026)
2.3.7.2 Global Ground Fault Protection Relay Revenue and Market Share by Sensing Method (2021-2026)
2.3.7.3 Global Ground Fault Protection Relay Sale Price by Sensing Method (2021-2026)
2.4 Ground Fault Protection Relay Segment by Pickup Current Range
2.4.1 Below 30 mA
2.4.2 30–300 mA
2.4.3 300 mA–1 A
2.4.4 1–10 A
2.4.5 Above 10 A
2.4.6 Ground Fault Protection Relay Sales by Pickup Current Range
2.4.6.1 Global Ground Fault Protection Relay Sales Market Share by Pickup Current Range (2021-2026)
2.4.6.2 Global Ground Fault Protection Relay Revenue and Market Share by Pickup Current Range (2021-2026)
2.4.6.3 Global Ground Fault Protection Relay Sale Price by Pickup Current Range (2021-2026)
2.5 Ground Fault Protection Relay Segment by Application
2.5.1 Utilities and Power Distribution
2.5.2 Industrial Manufacturing
2.5.3 Commercial Buildings
2.5.4 Data Centers and Telecommunications
2.5.5 Renewable Energy
2.5.6 Transportation
2.5.7 Marine and Offshore
2.5.8 Oil and Gas
2.5.9 Mining
2.5.10 Ground Fault Protection Relay Sales by Application
2.5.10.1 Global Ground Fault Protection Relay Sale Market Share by Application (2021-2026)
2.5.10.2 Global Ground Fault Protection Relay Revenue and Market Share by Application (2021-2026)
2.5.10.3 Global Ground Fault Protection Relay Sale Price by Application (2021-2026)

+357 96 030922
info@marketpublishers.com

3 GLOBAL BY COMPANY

3.1 Global Ground Fault Protection Relay Breakdown Data by Company
3.1.1 Global Ground Fault Protection Relay Annual Sales by Company (2021-2026)
3.1.2 Global Ground Fault Protection Relay Sales Market Share by Company (2021-2026)
3.2 Global Ground Fault Protection Relay Annual Revenue by Company (2021-2026)
3.2.1 Global Ground Fault Protection Relay Revenue by Company (2021-2026)
3.2.2 Global Ground Fault Protection Relay Revenue Market Share by Company (2021-2026)
3.3 Global Ground Fault Protection Relay Sale Price by Company
3.4 Key Manufacturers Ground Fault Protection Relay Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Ground Fault Protection Relay Product Location Distribution
3.4.2 Players Ground Fault Protection Relay Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR GROUND FAULT PROTECTION RELAY BY GEOGRAPHIC REGION

4.1 World Historic Ground Fault Protection Relay Market Size by Geographic Region (2021-2026)
4.1.1 Global Ground Fault Protection Relay Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Ground Fault Protection Relay Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Ground Fault Protection Relay Market Size by Country/Region (2021-2026)
4.2.1 Global Ground Fault Protection Relay Annual Sales by Country/Region (2021-2026)
4.2.2 Global Ground Fault Protection Relay Annual Revenue by Country/Region (2021-2026)
4.3 Americas Ground Fault Protection Relay Sales Growth
4.4 APAC Ground Fault Protection Relay Sales Growth
4.5 Europe Ground Fault Protection Relay Sales Growth

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info@marketpublishers.com

4.6 Middle East & Africa Ground Fault Protection Relay Sales Growth

5 AMERICAS

5.1 Americas Ground Fault Protection Relay Sales by Country
  5.1.1 Americas Ground Fault Protection Relay Sales by Country (2021-2026)
  5.1.2 Americas Ground Fault Protection Relay Revenue by Country (2021-2026)
5.2 Americas Ground Fault Protection Relay Sales by Protection Function (2021-2026)
5.3 Americas Ground Fault Protection Relay Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Ground Fault Protection Relay Sales by Region
  6.1.1 APAC Ground Fault Protection Relay Sales by Region (2021-2026)
  6.1.2 APAC Ground Fault Protection Relay Revenue by Region (2021-2026)
6.2 APAC Ground Fault Protection Relay Sales by Protection Function (2021-2026)
6.3 APAC Ground Fault Protection Relay Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Ground Fault Protection Relay by Country
  7.1.1 Europe Ground Fault Protection Relay Sales by Country (2021-2026)
  7.1.2 Europe Ground Fault Protection Relay Revenue by Country (2021-2026)
7.2 Europe Ground Fault Protection Relay Sales by Protection Function (2021-2026)
7.3 Europe Ground Fault Protection Relay Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK

+357 96 030922
info@marketpublishers.com

7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Ground Fault Protection Relay by Country
  8.1.1 Middle East & Africa Ground Fault Protection Relay Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Ground Fault Protection Relay Revenue by Country (2021-2026)
8.2 Middle East & Africa Ground Fault Protection Relay Sales by Protection Function (2021-2026)
8.3 Middle East & Africa Ground Fault Protection Relay Sales by Application (2021-2026)
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

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Ground Fault Protection Relay
10.3 Manufacturing Process Analysis of Ground Fault Protection Relay
10.4 Industry Chain Structure of Ground Fault Protection Relay

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Ground Fault Protection Relay Distributors

+357 96 030922
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11.3 Ground Fault Protection Relay Customer

12 WORLD FORECAST REVIEW FOR GROUND FAULT PROTECTION RELAY BY GEOGRAPHIC REGION

12.1 Global Ground Fault Protection Relay Market Size Forecast by Region
  12.1.1 Global Ground Fault Protection Relay Forecast by Region (2027-2032)
  12.1.2 Global Ground Fault Protection Relay Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Ground Fault Protection Relay Forecast by Protection Function (2027-2032)
12.7 Global Ground Fault Protection Relay Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Eaton
  13.1.1 Eaton Company Information
  13.1.2 Eaton Ground Fault Protection Relay Product Portfolios and Specifications
  13.1.3 Eaton Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
  13.1.4 Eaton Main Business Overview
  13.1.5 Eaton Latest Developments
13.2 Littelfuse
  13.2.1 Littelfuse Company Information
  13.2.2 Littelfuse Ground Fault Protection Relay Product Portfolios and Specifications
  13.2.3 Littelfuse Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
  13.2.4 Littelfuse Main Business Overview
  13.2.5 Littelfuse Latest Developments
13.3 Hubbell
  13.3.1 Hubbell Company Information
  13.3.2 Hubbell Ground Fault Protection Relay Product Portfolios and Specifications
  13.3.3 Hubbell Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
  13.3.4 Hubbell Main Business Overview
  13.3.5 Hubbell Latest Developments

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13.4 Schneider Electric
13.4.1 Schneider Electric Company Information
13.4.2 Schneider Electric Ground Fault Protection Relay Product Portfolios and Specifications
13.4.3 Schneider Electric Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Schneider Electric Main Business Overview
13.4.5 Schneider Electric Latest Developments
13.5 GE Vernova
13.5.1 GE Vernova Company Information
13.5.2 GE Vernova Ground Fault Protection Relay Product Portfolios and Specifications
13.5.3 GE Vernova Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 GE Vernova Main Business Overview
13.5.5 GE Vernova Latest Developments
13.6 Siemens
13.6.1 Siemens Company Information
13.6.2 Siemens Ground Fault Protection Relay Product Portfolios and Specifications
13.6.3 Siemens Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Siemens Main Business Overview
13.6.5 Siemens Latest Developments
13.7 Bender
13.7.1 Bender Company Information
13.7.2 Bender Ground Fault Protection Relay Product Portfolios and Specifications
13.7.3 Bender Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Bender Main Business Overview
13.7.5 Bender Latest Developments
13.8 Altech Corporation
13.8.1 Altech Corporation Company Information
13.8.2 Altech Corporation Ground Fault Protection Relay Product Portfolios and Specifications
13.8.3 Altech Corporation Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Altech Corporation Main Business Overview
13.8.5 Altech Corporation Latest Developments
13.9 I-Gard

+357 96 030922
info@marketpublishers.com

13.9.1 I-Gard Company Information
13.9.2 I-Gard Ground Fault Protection Relay Product Portfolios and Specifications
13.9.3 I-Gard Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 I-Gard Main Business Overview
13.9.5 I-Gard Latest Developments
13.10 NK Technologies
13.10.1 NK Technologies Company Information
13.10.2 NK Technologies Ground Fault Protection Relay Product Portfolios and Specifications
13.10.3 NK Technologies Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 NK Technologies Main Business Overview
13.10.5 NK Technologies Latest Developments
13.11 ABB
13.11.1 ABB Company Information
13.11.2 ABB Ground Fault Protection Relay Product Portfolios and Specifications
13.11.3 ABB Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 ABB Main Business Overview
13.11.5 ABB Latest Developments
13.12 SELCO USA
13.12.1 SELCO USA Company Information
13.12.2 SELCO USA Ground Fault Protection Relay Product Portfolios and Specifications
13.12.3 SELCO USA Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 SELCO USA Main Business Overview
13.12.5 SELCO USA Latest Developments
13.13 Orion Italia
13.13.1 Orion Italia Company Information
13.13.2 Orion Italia Ground Fault Protection Relay Product Portfolios and Specifications
13.13.3 Orion Italia Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Orion Italia Main Business Overview
13.13.5 Orion Italia Latest Developments
13.14 Basler Electric
13.14.1 Basler Electric Company Information

+357 96 030922
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13.14.2 Basler Electric Ground Fault Protection Relay Product Portfolios and Specifications
13.14.3 Basler Electric Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Basler Electric Main Business Overview
13.14.5 Basler Electric Latest Developments
13.15 LOVATO Electric
13.15.1 LOVATO Electric Company Information
13.15.2 LOVATO Electric Ground Fault Protection Relay Product Portfolios and Specifications
13.15.3 LOVATO Electric Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 LOVATO Electric Main Business Overview
13.15.5 LOVATO Electric Latest Developments
13.16 CIRCUTOR
13.16.1 CIRCUTOR Company Information
13.16.2 CIRCUTOR Ground Fault Protection Relay Product Portfolios and Specifications
13.16.3 CIRCUTOR Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 CIRCUTOR Main Business Overview
13.16.5 CIRCUTOR Latest Developments
13.17 FRER
13.17.1 FRER Company Information
13.17.2 FRER Ground Fault Protection Relay Product Portfolios and Specifications
13.17.3 FRER Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.17.4 FRER Main Business Overview
13.17.5 FRER Latest Developments
13.18 Mitsubishi Electric
13.18.1 Mitsubishi Electric Company Information
13.18.2 Mitsubishi Electric Ground Fault Protection Relay Product Portfolios and Specifications
13.18.3 Mitsubishi Electric Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.18.4 Mitsubishi Electric Main Business Overview
13.18.5 Mitsubishi Electric Latest Developments
13.19 Fuji Electric
13.19.1 Fuji Electric Company Information

+357 96 030922
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13.19.2 Fuji Electric Ground Fault Protection Relay Product Portfolios and Specifications
13.19.3 Fuji Electric Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.19.4 Fuji Electric Main Business Overview
13.19.5 Fuji Electric Latest Developments
13.20 Terasaki Electric
13.20.1 Terasaki Electric Company Information
13.20.2 Terasaki Electric Ground Fault Protection Relay Product Portfolios and Specifications
13.20.3 Terasaki Electric Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.20.4 Terasaki Electric Main Business Overview
13.20.5 Terasaki Electric Latest Developments
13.21 Seiko Electric
13.21.1 Seiko Electric Company Information
13.21.2 Seiko Electric Ground Fault Protection Relay Product Portfolios and Specifications
13.21.3 Seiko Electric Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.21.4 Seiko Electric Main Business Overview
13.21.5 Seiko Electric Latest Developments
13.22 Hitachi Industrial Equipment Systems
13.22.1 Hitachi Industrial Equipment Systems Company Information
13.22.2 Hitachi Industrial Equipment Systems Ground Fault Protection Relay Product Portfolios and Specifications
13.22.3 Hitachi Industrial Equipment Systems Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.22.4 Hitachi Industrial Equipment Systems Main Business Overview
13.22.5 Hitachi Industrial Equipment Systems Latest Developments
13.23 Acrel
13.23.1 Acrel Company Information
13.23.2 Acrel Ground Fault Protection Relay Product Portfolios and Specifications
13.23.3 Acrel Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.23.4 Acrel Main Business Overview
13.23.5 Acrel Latest Developments
13.24 GEYA Electrical
13.24.1 GEYA Electrical Company Information

+357 96 030922
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13.24.2 GEYA Electrical Ground Fault Protection Relay Product Portfolios and Specifications
13.24.3 GEYA Electrical Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.24.4 GEYA Electrical Main Business Overview
13.24.5 GEYA Electrical Latest Developments
13.25 Chongqing Blue Jay Technology
13.25.1 Chongqing Blue Jay Technology Company Information
13.25.2 Chongqing Blue Jay Technology Ground Fault Protection Relay Product Portfolios and Specifications
13.25.3 Chongqing Blue Jay Technology Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.25.4 Chongqing Blue Jay Technology Main Business Overview
13.25.5 Chongqing Blue Jay Technology Latest Developments
13.26 Naidian Group
13.26.1 Naidian Group Company Information
13.26.2 Naidian Group Ground Fault Protection Relay Product Portfolios and Specifications
13.26.3 Naidian Group Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.26.4 Naidian Group Main Business Overview
13.26.5 Naidian Group Latest Developments
13.27 Fanox
13.27.1 Fanox Company Information
13.27.2 Fanox Ground Fault Protection Relay Product Portfolios and Specifications
13.27.3 Fanox Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.27.4 Fanox Main Business Overview
13.27.5 Fanox Latest Developments
13.28 Socomec
13.28.1 Socomec Company Information
13.28.2 Socomec Ground Fault Protection Relay Product Portfolios and Specifications
13.28.3 Socomec Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.28.4 Socomec Main Business Overview
13.28.5 Socomec Latest Developments
13.29 Carlo Gavazzi
13.29.1 Carlo Gavazzi Company Information
13.29.2 Carlo Gavazzi Ground Fault Protection Relay Product Portfolios and

+357 96 030922
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Specifications
13.29.3 Carlo Gavazzi Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.29.4 Carlo Gavazzi Main Business Overview
13.29.5 Carlo Gavazzi Latest Developments
13.30 Dossena
13.30.1 Dossena Company Information
13.30.2 Dossena Ground Fault Protection Relay Product Portfolios and Specifications
13.30.3 Dossena Ground Fault Protection Relay Sales, Revenue, Price and Gross Margin (2021-2026)
13.30.4 Dossena Main Business Overview
13.30.5 Dossena Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

Table 1. Ground Fault Protection Relay Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Ground Fault Protection Relay Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Ground Fault Trip Relay
Table 4. Major Players of Ground Fault Alarm Relay
Table 5. Major Players of Ground Fault Monitoring Relay
Table 6. Major Players of Ground Fault and Leakage Combined Relay
Table 7. Major Players of Others
Table 8. Global Ground Fault Protection Relay Sales by Protection Function (2021-2026) & (K Units)
Table 9. Global Ground Fault Protection Relay Sales Market Share by Protection Function (2021-2026)
Table 10. Global Ground Fault Protection Relay Revenue by Protection Function (2021-2026) & ($ million)
Table 11. Global Ground Fault Protection Relay Revenue Market Share by Protection Function (2021-2026)
Table 12. Global Ground Fault Protection Relay Sale Price by Protection Function (2021-2026) & (US$/Unit)
Table 13. Major Players of Core Balance Current Transformer
Table 14. Major Players of Zero-sequence Current Transformer
Table 15. Major Players of Residual Current Measurement
Table 16. Major Players of Differential Current Measurement
Table 17. Major Players of Direct Ground Current Measurement
Table 18. Major Players of Others
Table 19. Global Ground Fault Protection Relay Sales by Sensing Method (2021-2026) & (K Units)
Table 20. Global Ground Fault Protection Relay Sales Market Share by Sensing Method (2021-2026)
Table 21. Global Ground Fault Protection Relay Revenue by Sensing Method (2021-2026) & ($ million)
Table 22. Global Ground Fault Protection Relay Revenue Market Share by Sensing Method (2021-2026)
Table 23. Global Ground Fault Protection Relay Sale Price by Sensing Method (2021-2026) & (US$/Unit)

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Table 24. Major Players of Below 30 mA
Table 25. Major Players of 30–300 mA
Table 26. Major Players of 300 mA–1 A
Table 27. Major Players of 1–10 A
Table 28. Major Players of Above 10 A
Table 29. Global Ground Fault Protection Relay Sales by Pickup Current Range (2021-2026) & (K Units)
Table 30. Global Ground Fault Protection Relay Sales Market Share by Pickup Current Range (2021-2026)
Table 31. Global Ground Fault Protection Relay Revenue by Pickup Current Range (2021-2026) & ($ million)
Table 32. Global Ground Fault Protection Relay Revenue Market Share by Pickup Current Range (2021-2026)
Table 33. Global Ground Fault Protection Relay Sale Price by Pickup Current Range (2021-2026) & (US$/Unit)
Table 34. Global Ground Fault Protection Relay Sale by Application (2021-2026) & (K Units)
Table 35. Global Ground Fault Protection Relay Sale Market Share by Application (2021-2026)
Table 36. Global Ground Fault Protection Relay Revenue by Application (2021-2026) & ($ million)
Table 37. Global Ground Fault Protection Relay Revenue Market Share by Application (2021-2026)
Table 38. Global Ground Fault Protection Relay Sale Price by Application (2021-2026) & (US$/Unit)
Table 39. Global Ground Fault Protection Relay Sales by Company (2021-2026) & (K Units)
Table 40. Global Ground Fault Protection Relay Sales Market Share by Company (2021-2026)
Table 41. Global Ground Fault Protection Relay Revenue by Company (2021-2026) & ($ millions)
Table 42. Global Ground Fault Protection Relay Revenue Market Share by Company (2021-2026)
Table 43. Global Ground Fault Protection Relay Sale Price by Company (2021-2026) & (US$/Unit)
Table 44. Key Manufacturers Ground Fault Protection Relay Producing Area Distribution and Sales Area
Table 45. Players Ground Fault Protection Relay Products Offered
Table 46. Ground Fault Protection Relay Concentration Ratio (CR3, CR5 and CR10) &

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(2024-2026)
Table 47. New Products and Potential Entrants
Table 48. Market M&A Activity & Strategy
Table 49. Global Ground Fault Protection Relay Sales by Geographic Region (2021-2026) & (K Units)
Table 50. Global Ground Fault Protection Relay Sales Market Share Geographic Region (2021-2026)
Table 51. Global Ground Fault Protection Relay Revenue by Geographic Region (2021-2026) & ($ millions)
Table 52. Global Ground Fault Protection Relay Revenue Market Share by Geographic Region (2021-2026)
Table 53. Global Ground Fault Protection Relay Sales by Country/Region (2021-2026) & (K Units)
Table 54. Global Ground Fault Protection Relay Sales Market Share by Country/Region (2021-2026)
Table 55. Global Ground Fault Protection Relay Revenue by Country/Region (2021-2026) & ($ millions)
Table 56. Global Ground Fault Protection Relay Revenue Market Share by Country/Region (2021-2026)
Table 57. Americas Ground Fault Protection Relay Sales by Country (2021-2026) & (K Units)
Table 58. Americas Ground Fault Protection Relay Sales Market Share by Country (2021-2026)
Table 59. Americas Ground Fault Protection Relay Revenue by Country (2021-2026) & ($ millions)
Table 60. Americas Ground Fault Protection Relay Sales by Protection Function (2021-2026) & (K Units)
Table 61. Americas Ground Fault Protection Relay Sales by Application (2021-2026) & (K Units)
Table 62. APAC Ground Fault Protection Relay Sales by Region (2021-2026) & (K Units)
Table 63. APAC Ground Fault Protection Relay Sales Market Share by Region (2021-2026)
Table 64. APAC Ground Fault Protection Relay Revenue by Region (2021-2026) & ($ millions)
Table 65. APAC Ground Fault Protection Relay Sales by Protection Function (2021-2026) & (K Units)
Table 66. APAC Ground Fault Protection Relay Sales by Application (2021-2026) & (K Units)

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Table 67. Europe Ground Fault Protection Relay Sales by Country (2021-2026) & (K Units)
Table 68. Europe Ground Fault Protection Relay Revenue by Country (2021-2026) & ($ millions)
Table 69. Europe Ground Fault Protection Relay Sales by Protection Function (2021-2026) & (K Units)
Table 70. Europe Ground Fault Protection Relay Sales by Application (2021-2026) & (K Units)
Table 71. Middle East & Africa Ground Fault Protection Relay Sales by Country (2021-2026) & (K Units)
Table 72. Middle East & Africa Ground Fault Protection Relay Revenue Market Share by Country (2021-2026)
Table 73. Middle East & Africa Ground Fault Protection Relay Sales by Protection Function (2021-2026) & (K Units)
Table 74. Middle East & Africa Ground Fault Protection Relay Sales by Application (2021-2026) & (K Units)
Table 75. Key Market Drivers & Growth Opportunities of Ground Fault Protection Relay
Table 76. Key Market Challenges & Risks of Ground Fault Protection Relay
Table 77. Key Industry Trends of Ground Fault Protection Relay
Table 78. Ground Fault Protection Relay Raw Material
Table 79. Key Suppliers of Raw Materials
Table 80. Ground Fault Protection Relay Distributors List
Table 81. Ground Fault Protection Relay Customer List
Table 82. Global Ground Fault Protection Relay Sales Forecast by Region (2027-2032) & (K Units)
Table 83. Global Ground Fault Protection Relay Revenue Forecast by Region (2027-2032) & ($ millions)
Table 84. Americas Ground Fault Protection Relay Sales Forecast by Country (2027-2032) & (K Units)
Table 85. Americas Ground Fault Protection Relay Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 86. APAC Ground Fault Protection Relay Sales Forecast by Region (2027-2032) & (K Units)
Table 87. APAC Ground Fault Protection Relay Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 88. Europe Ground Fault Protection Relay Sales Forecast by Country (2027-2032) & (K Units)
Table 89. Europe Ground Fault Protection Relay Revenue Forecast by Country (2027-2032) & ($ millions)

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Table 90. Middle East & Africa Ground Fault Protection Relay Sales Forecast by Country (2027-2032) & (K Units)
Table 91. Middle East & Africa Ground Fault Protection Relay Revenue Forecast by Country (2027-2032) & ($ millions)
Table 92. Global Ground Fault Protection Relay Sales Forecast by Protection Function (2027-2032) & (K Units)
Table 93. Global Ground Fault Protection Relay Revenue Forecast by Protection Function (2027-2032) & ($ millions)
Table 94. Global Ground Fault Protection Relay Sales Forecast by Application (2027-2032) & (K Units)
Table 95. Global Ground Fault Protection Relay Revenue Forecast by Application (2027-2032) & ($ millions)
Table 96. Eaton Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 97. Eaton Ground Fault Protection Relay Product Portfolios and Specifications
Table 98. Eaton Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 99. Eaton Main Business
Table 100. Eaton Latest Developments
Table 101. Littelfuse Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 102. Littelfuse Ground Fault Protection Relay Product Portfolios and Specifications
Table 103. Littelfuse Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 104. Littelfuse Main Business
Table 105. Littelfuse Latest Developments
Table 106. Hubbell Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 107. Hubbell Ground Fault Protection Relay Product Portfolios and Specifications
Table 108. Hubbell Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 109. Hubbell Main Business
Table 110. Hubbell Latest Developments
Table 111. Schneider Electric Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 112. Schneider Electric Ground Fault Protection Relay Product Portfolios and Specifications
Table 113. Schneider Electric Ground Fault Protection Relay Sales (K Units), Revenue

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($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 114. Schneider Electric Main Business
Table 115. Schneider Electric Latest Developments
Table 116. GE Vernova Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 117. GE Vernova Ground Fault Protection Relay Product Portfolios and Specifications
Table 118. GE Vernova Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 119. GE Vernova Main Business
Table 120. GE Vernova Latest Developments
Table 121. Siemens Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 122. Siemens Ground Fault Protection Relay Product Portfolios and Specifications
Table 123. Siemens Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 124. Siemens Main Business
Table 125. Siemens Latest Developments
Table 126. Bender Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 127. Bender Ground Fault Protection Relay Product Portfolios and Specifications
Table 128. Bender Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 129. Bender Main Business
Table 130. Bender Latest Developments
Table 131. Altech Corporation Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 132. Altech Corporation Ground Fault Protection Relay Product Portfolios and Specifications
Table 133. Altech Corporation Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 134. Altech Corporation Main Business
Table 135. Altech Corporation Latest Developments
Table 136. I-Gard Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 137. I-Gard Ground Fault Protection Relay Product Portfolios and Specifications
Table 138. I-Gard Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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Table 139. I-Gard Main Business
Table 140. I-Gard Latest Developments
Table 141. NK Technologies Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 142. NK Technologies Ground Fault Protection Relay Product Portfolios and Specifications
Table 143. NK Technologies Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 144. NK Technologies Main Business
Table 145. NK Technologies Latest Developments
Table 146. ABB Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 147. ABB Ground Fault Protection Relay Product Portfolios and Specifications
Table 148. ABB Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 149. ABB Main Business
Table 150. ABB Latest Developments
Table 151. SELCO USA Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 152. SELCO USA Ground Fault Protection Relay Product Portfolios and Specifications
Table 153. SELCO USA Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 154. SELCO USA Main Business
Table 155. SELCO USA Latest Developments
Table 156. Orion Italia Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 157. Orion Italia Ground Fault Protection Relay Product Portfolios and Specifications
Table 158. Orion Italia Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 159. Orion Italia Main Business
Table 160. Orion Italia Latest Developments
Table 161. Basler Electric Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 162. Basler Electric Ground Fault Protection Relay Product Portfolios and Specifications
Table 163. Basler Electric Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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Table 164. Basler Electric Main Business
Table 165. Basler Electric Latest Developments
Table 166. LOVATO Electric Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 167. LOVATO Electric Ground Fault Protection Relay Product Portfolios and Specifications
Table 168. LOVATO Electric Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 169. LOVATO Electric Main Business
Table 170. LOVATO Electric Latest Developments
Table 171. CIRCUTOR Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 172. CIRCUTOR Ground Fault Protection Relay Product Portfolios and Specifications
Table 173. CIRCUTOR Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 174. CIRCUTOR Main Business
Table 175. CIRCUTOR Latest Developments
Table 176. FRER Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 177. FRER Ground Fault Protection Relay Product Portfolios and Specifications
Table 178. FRER Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 179. FRER Main Business
Table 180. FRER Latest Developments
Table 181. Mitsubishi Electric Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 182. Mitsubishi Electric Ground Fault Protection Relay Product Portfolios and Specifications
Table 183. Mitsubishi Electric Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 184. Mitsubishi Electric Main Business
Table 185. Mitsubishi Electric Latest Developments
Table 186. Fuji Electric Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 187. Fuji Electric Ground Fault Protection Relay Product Portfolios and Specifications
Table 188. Fuji Electric Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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info@marketpublishers.com

Table 189. Fuji Electric Main Business
Table 190. Fuji Electric Latest Developments
Table 191. Terasaki Electric Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 192. Terasaki Electric Ground Fault Protection Relay Product Portfolios and Specifications
Table 193. Terasaki Electric Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 194. Terasaki Electric Main Business
Table 195. Terasaki Electric Latest Developments
Table 196. Seiko Electric Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 197. Seiko Electric Ground Fault Protection Relay Product Portfolios and Specifications
Table 198. Seiko Electric Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 199. Seiko Electric Main Business
Table 200. Seiko Electric Latest Developments
Table 201. Hitachi Industrial Equipment Systems Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 202. Hitachi Industrial Equipment Systems Ground Fault Protection Relay Product Portfolios and Specifications
Table 203. Hitachi Industrial Equipment Systems Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 204. Hitachi Industrial Equipment Systems Main Business
Table 205. Hitachi Industrial Equipment Systems Latest Developments
Table 206. Acrel Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 207. Acrel Ground Fault Protection Relay Product Portfolios and Specifications
Table 208. Acrel Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 209. Acrel Main Business
Table 210. Acrel Latest Developments
Table 211. GEYA Electrical Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 212. GEYA Electrical Ground Fault Protection Relay Product Portfolios and Specifications
Table 213. GEYA Electrical Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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Table 214. GEYA Electrical Main Business
Table 215. GEYA Electrical Latest Developments
Table 216. Chongqing Blue Jay Technology Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 217. Chongqing Blue Jay Technology Ground Fault Protection Relay Product Portfolios and Specifications
Table 218. Chongqing Blue Jay Technology Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 219. Chongqing Blue Jay Technology Main Business
Table 220. Chongqing Blue Jay Technology Latest Developments
Table 221. Naidian Group Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 222. Naidian Group Ground Fault Protection Relay Product Portfolios and Specifications
Table 223. Naidian Group Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 224. Naidian Group Main Business
Table 225. Naidian Group Latest Developments
Table 226. Fanox Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 227. Fanox Ground Fault Protection Relay Product Portfolios and Specifications
Table 228. Fanox Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 229. Fanox Main Business
Table 230. Fanox Latest Developments
Table 231. Socomec Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 232. Socomec Ground Fault Protection Relay Product Portfolios and Specifications
Table 233. Socomec Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 234. Socomec Main Business
Table 235. Socomec Latest Developments
Table 236. Carlo Gavazzi Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 237. Carlo Gavazzi Ground Fault Protection Relay Product Portfolios and Specifications
Table 238. Carlo Gavazzi Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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Table 239. Carlo Gavazzi Main Business
Table 240. Carlo Gavazzi Latest Developments
Table 241. Dossena Basic Information, Ground Fault Protection Relay Manufacturing Base, Sales Area and Its Competitors
Table 242. Dossena Ground Fault Protection Relay Product Portfolios and Specifications
Table 243. Dossena Ground Fault Protection Relay Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 244. Dossena Main Business
Table 245. Dossena Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Ground Fault Protection Relay
Figure 2. Ground Fault Protection Relay Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Ground Fault Protection Relay Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Ground Fault Protection Relay Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Ground Fault Protection Relay Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Ground Fault Protection Relay Sales Market Share by Country/Region (2025)
Figure 10. Ground Fault Protection Relay Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Ground Fault Trip Relay
Figure 12. Product Picture of Ground Fault Alarm Relay
Figure 13. Product Picture of Ground Fault Monitoring Relay
Figure 14. Product Picture of Ground Fault and Leakage Combined Relay
Figure 15. Product Picture of Others
Figure 16. Global Ground Fault Protection Relay Sales Market Share by Protection Function in 2026
Figure 17. Global Ground Fault Protection Relay Revenue Market Share by Protection Function (2021-2026)
Figure 18. Product Picture of Core Balance Current Transformer
Figure 19. Product Picture of Zero-sequence Current Transformer
Figure 20. Product Picture of Residual Current Measurement
Figure 21. Product Picture of Differential Current Measurement
Figure 22. Product Picture of Direct Ground Current Measurement
Figure 23. Product Picture of Others
Figure 24. Global Ground Fault Protection Relay Sales Market Share by Sensing Method in 2026
Figure 25. Global Ground Fault Protection Relay Revenue Market Share by Sensing Method (2021-2026)
Figure 26. Product Picture of Below 30 mA
Figure 27. Product Picture of 30–300 mA
Figure 28. Product Picture of 300 mA–1 A

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Figure 29. Product Picture of 1–10 A
Figure 30. Product Picture of Above 10 A
Figure 31. Global Ground Fault Protection Relay Sales Market Share by Pickup Current Range in 2026
Figure 32. Global Ground Fault Protection Relay Revenue Market Share by Pickup Current Range (2021-2026)
Figure 33. Ground Fault Protection Relay Consumed in Utilities and Power Distribution
Figure 34. Global Ground Fault Protection Relay Market: Utilities and Power Distribution (2021-2026) & (K Units)
Figure 35. Ground Fault Protection Relay Consumed in Industrial Manufacturing
Figure 36. Global Ground Fault Protection Relay Market: Industrial Manufacturing (2021-2026) & (K Units)
Figure 37. Ground Fault Protection Relay Consumed in Commercial Buildings
Figure 38. Global Ground Fault Protection Relay Market: Commercial Buildings (2021-2026) & (K Units)
Figure 39. Ground Fault Protection Relay Consumed in Data Centers and Telecommunications
Figure 40. Global Ground Fault Protection Relay Market: Data Centers and Telecommunications (2021-2026) & (K Units)
Figure 41. Ground Fault Protection Relay Consumed in Renewable Energy
Figure 42. Global Ground Fault Protection Relay Market: Renewable Energy (2021-2026) & (K Units)
Figure 43. Ground Fault Protection Relay Consumed in Transportation
Figure 44. Global Ground Fault Protection Relay Market: Transportation (2021-2026) & (K Units)
Figure 45. Ground Fault Protection Relay Consumed in Marine and Offshore
Figure 46. Global Ground Fault Protection Relay Market: Marine and Offshore (2021-2026) & (K Units)
Figure 47. Ground Fault Protection Relay Consumed in Oil and Gas
Figure 48. Global Ground Fault Protection Relay Market: Oil and Gas (2021-2026) & (K Units)
Figure 49. Ground Fault Protection Relay Consumed in Mining
Figure 50. Global Ground Fault Protection Relay Market: Mining (2021-2026) & (K Units)
Figure 51. Global Ground Fault Protection Relay Sale Market Share by Application (2025)
Figure 52. Global Ground Fault Protection Relay Revenue Market Share by Application in 2025
Figure 53. Ground Fault Protection Relay Sales by Company in 2025 (K Units)

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Figure 54. Global Ground Fault Protection Relay Sales Market Share by Company in 2025
Figure 55. Ground Fault Protection Relay Revenue by Company in 2025 ($ millions)
Figure 56. Global Ground Fault Protection Relay Revenue Market Share by Company in 2025
Figure 57. Global Ground Fault Protection Relay Sales Market Share by Geographic Region (2021-2026)
Figure 58. Global Ground Fault Protection Relay Revenue Market Share by Geographic Region in 2025
Figure 59. Americas Ground Fault Protection Relay Sales 2021-2026 (K Units)
Figure 60. Americas Ground Fault Protection Relay Revenue 2021-2026 ($ millions)
Figure 61. APAC Ground Fault Protection Relay Sales 2021-2026 (K Units)
Figure 62. APAC Ground Fault Protection Relay Revenue 2021-2026 ($ millions)
Figure 63. Europe Ground Fault Protection Relay Sales 2021-2026 (K Units)
Figure 64. Europe Ground Fault Protection Relay Revenue 2021-2026 ($ millions)
Figure 65. Middle East & Africa Ground Fault Protection Relay Sales 2021-2026 (K Units)
Figure 66. Middle East & Africa Ground Fault Protection Relay Revenue 2021-2026 ($ millions)
Figure 67. Americas Ground Fault Protection Relay Sales Market Share by Country in 2025
Figure 68. Americas Ground Fault Protection Relay Revenue Market Share by Country (2021-2026)
Figure 69. Americas Ground Fault Protection Relay Sales Market Share by Protection Function (2021-2026)
Figure 70. Americas Ground Fault Protection Relay Sales Market Share by Application (2021-2026)
Figure 71. United States Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 72. Canada Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 73. Mexico Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 74. Brazil Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 75. APAC Ground Fault Protection Relay Sales Market Share by Region in 2025
Figure 76. APAC Ground Fault Protection Relay Revenue Market Share by Region (2021-2026)
Figure 77. APAC Ground Fault Protection Relay Sales Market Share by Protection Function (2021-2026)

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Figure 78. APAC Ground Fault Protection Relay Sales Market Share by Application (2021-2026)
Figure 79. China Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 80. Japan Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 81. South Korea Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 82. Southeast Asia Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 83. India Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 84. Australia Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 85. China Taiwan Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 86. Europe Ground Fault Protection Relay Sales Market Share by Country in 2025
Figure 87. Europe Ground Fault Protection Relay Revenue Market Share by Country (2021-2026)
Figure 88. Europe Ground Fault Protection Relay Sales Market Share by Protection Function (2021-2026)
Figure 89. Europe Ground Fault Protection Relay Sales Market Share by Application (2021-2026)
Figure 90. Germany Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 91. France Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 92. UK Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 93. Italy Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 94. Russia Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 95. Middle East & Africa Ground Fault Protection Relay Sales Market Share by Country (2021-2026)
Figure 96. Middle East & Africa Ground Fault Protection Relay Sales Market Share by Protection Function (2021-2026)
Figure 97. Middle East & Africa Ground Fault Protection Relay Sales Market Share by Application (2021-2026)
Figure 98. Egypt Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)

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Figure 99. South Africa Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 100. Israel Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 101. Turkey Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 102. GCC Countries Ground Fault Protection Relay Revenue Growth 2021-2026 ($ millions)
Figure 103. Manufacturing Cost Structure Analysis of Ground Fault Protection Relay in 2026
Figure 104. Manufacturing Process Analysis of Ground Fault Protection Relay
Figure 105. Industry Chain Structure of Ground Fault Protection Relay
Figure 106. Channels of Distribution
Figure 107. Global Ground Fault Protection Relay Sales Market Forecast by Region (2027-2032)
Figure 108. Global Ground Fault Protection Relay Revenue Market Share Forecast by Region (2027-2032)
Figure 109. Global Ground Fault Protection Relay Sales Market Share Forecast by Protection Function (2027-2032)
Figure 110. Global Ground Fault Protection Relay Revenue Market Share Forecast by Protection Function (2027-2032)
Figure 111. Global Ground Fault Protection Relay Sales Market Share Forecast by Application (2027-2032)
Figure 112. Global Ground Fault Protection Relay Revenue Market Share Forecast by Application (2027-2032)

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