

# **Circuit Protection Market Report by Type (Overcurrent Protection, Electrostatic Discharge (ESD) Protection, Overvoltage Protection), Device (Circuit Breakers, Fuses, ESD Protection Devices, Surge Protection Devices), End-Use (Residential Building Construction, Non-Residential Building Construction, Automotive, Electrical and Electronics, and Others), and Region 2024-2032**

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## **Abstracts**

The global circuit protection market size reached US\$ 46.5 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 72.6 Billion by 2032, exhibiting a growth rate (CAGR) of 4.9% during 2024-2032.

Circuit protection refers to the installation of fuses and circuit breakers to protect low-voltage electrical devices during power fluctuations. Frequent voltage fluctuations can damage equipment through electrostatic discharge and reduce its overall lifespan. Circuit protection devices (CPDs), such as circuit breakers, fuses, electrostatic discharge and surge protection devices, are installed to eliminate the threats of electrocution and fire. They form a key component in the manufacturing of computers, laptops, smartphones, battery packs, communication systems and portable electronics.

The growing automotive industry, along with the growing utilization of consumer electronics, is one of the key factors driving the growth of the market. In automobiles, both electrical and mechanical components are used that are dependent on CPDs to enhance driving assistance, infotainment, navigation, and telematics, passenger comfort and safety. These devices are also used to integrate smart and high-

performance functionalities by preventing wires and other electrical components from overheating. Furthermore, the emerging trend of equipment miniaturization has also boosted the demand for circuit protection solutions across the globe. Manufacturers are designing innovative and compact products that are more vulnerable to voltage and electrical surges, thus increasing the demand for circuit protection solutions. Additionally, the rapid growth of slim, smart portable appliances with improved sensitivity, faster processors and better power densities is another factor creating a positive outlook for the market. Other factors, including rapid urbanization, growth in the construction industry and various technological advancements, are projected to drive the market in the upcoming years.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global circuit protection market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, device and end-use.

#### Breakup by Type:

- Overcurrent Protection
- Electrostatic Discharge (ESD) Protection
- Overvoltage Protection

#### Breakup by Device:

- Circuit Breakers
- Fuses
- ESD Protection Devices
- Surge Protection Devices

#### Breakup by End-Use:

- Residential Building Construction
- Non-Residential Building Construction
- Automotive
- Electrical and Electronics
- Others

#### Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

IMARC Group's latest report provides a deep insight into the global circuit protection market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the circuit protection market in any manner.

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being ABB Ltd., BEL Fuse Inc., Eaton Corp. PLC, General Electric Company, Larsen & Toubro Ltd., Mitsubishi Electric Corp., NXP Semiconductors N.V., ON Semiconductor Corp., Rockwell Automation Inc., Schneider Electric SE, Siemens AG,

Texas Instruments Inc., Hitachi Ltd., etc.

### Key Questions Answered in This Report

1. How big is the global circuit protection market?
2. What is the expected growth rate of the global circuit protection market during 2024-2032?
3. What are the key factors driving the global circuit protection market?
4. What has been the impact of COVID-19 on the global circuit protection market?
5. What is the breakup of the global circuit protection market based on the device?
6. What are the key regions in the global circuit protection market?
7. Who are the key players/companies in the global circuit protection market?

## Contents

### 1 PREFACE

### 2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### 3 EXECUTIVE SUMMARY

### 4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

### 5 GLOBAL CIRCUIT PROTECTION MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### 6 MARKET BREAKUP BY TYPE

- 6.1 Overcurrent Protection
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Electrostatic Discharge (ESD) Protection
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Overvoltage Protection

- 6.3.1 Market Trends
- 6.3.2 Market Forecast

## **7 MARKET BREAKUP BY DEVICE**

- 7.1 Circuit Breakers
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Fuses
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 ESD Protection Devices
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 Surge Protection Devices
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast

## **8 MARKET BREAKUP BY END-USE**

- 8.1 Residential Building Construction
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Non-Residential Building Construction
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Automotive
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast
- 8.4 Electrical and Electronics
  - 8.4.1 Market Trends
  - 8.4.2 Market Forecast
- 8.5 Others
  - 8.5.1 Market Trends
  - 8.5.2 Market Forecast

## **9 MARKET BREAKUP BY REGION**

- 9.1 North America

- 9.1.1 United States
  - 9.1.1.1 Market Trends
  - 9.1.1.2 Market Forecast
- 9.1.2 Canada
  - 9.1.2.1 Market Trends
  - 9.1.2.2 Market Forecast
- 9.2 Europe
  - 9.2.1 Germany
    - 9.2.1.1 Market Trends
    - 9.2.1.2 Market Forecast
  - 9.2.2 France
    - 9.2.2.1 Market Trends
    - 9.2.2.2 Market Forecast
  - 9.2.3 United Kingdom
    - 9.2.3.1 Market Trends
    - 9.2.3.2 Market Forecast
  - 9.2.4 Italy
    - 9.2.4.1 Market Trends
    - 9.2.4.2 Market Forecast
  - 9.2.5 Spain
    - 9.2.5.1 Market Trends
    - 9.2.5.2 Market Forecast
  - 9.2.6 Russia
    - 9.2.6.1 Market Trends
    - 9.2.6.2 Market Forecast
  - 9.2.7 Others
    - 9.2.7.1 Market Trends
    - 9.2.7.2 Market Forecast
- 9.3 Asia Pacific
  - 9.3.1 China
    - 9.3.1.1 Market Trends
    - 9.3.1.2 Market Forecast
  - 9.3.2 Japan
    - 9.3.2.1 Market Trends
    - 9.3.2.2 Market Forecast
  - 9.3.3 India
    - 9.3.3.1 Market Trends
    - 9.3.3.2 Market Forecast
  - 9.3.4 South Korea

- 9.3.4.1 Market Trends
- 9.3.4.2 Market Forecast
- 9.3.5 Australia
  - 9.3.5.1 Market Trends
  - 9.3.5.2 Market Forecast
- 9.3.6 Indonesia
  - 9.3.6.1 Market Trends
  - 9.3.6.2 Market Forecast
- 9.3.7 Others
  - 9.3.7.1 Market Trends
  - 9.3.7.2 Market Forecast
- 9.4 Latin America
  - 9.4.1 Brazil
    - 9.4.1.1 Market Trends
    - 9.4.1.2 Market Forecast
  - 9.4.2 Mexico
    - 9.4.2.1 Market Trends
    - 9.4.2.2 Market Forecast
  - 9.4.3 Others
    - 9.4.3.1 Market Trends
    - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
  - 9.5.1 Market Trends
  - 9.5.2 Market Breakup by Country
  - 9.5.3 Market Forecast

## **10 SWOT ANALYSIS**

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

## **11 VALUE CHAIN ANALYSIS**

- 11.1 Overview
- 11.2 Research & Product Development
- 11.3 Manufacturing



11.4 Distribution

11.5 Marketing & Sales

11.6 End Users

## **12 PORTERS FIVE FORCES ANALYSIS**

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

## **13 PRICE INDICATORS**

## **14 COMPETITIVE LANDSCAPE**

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 ABB Ltd.

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 Bel Fuse Inc.

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.2.4 SWOT Analysis

14.3.3 Eaton Corporation PLC

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.3.4 SWOT Analysis

14.3.4 General Electric Company

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

14.3.4.3 Financials

- 14.3.4.4 SWOT Analysis
- 14.3.5 Larsen & Toubro Ltd.
  - 14.3.5.1 Company Overview
  - 14.3.5.2 Product Portfolio
  - 14.3.5.3 Financials
  - 14.3.5.4 SWOT Analysis
- 14.3.6 Mitsubishi Electric Corp.
  - 14.3.6.1 Company Overview
  - 14.3.6.2 Product Portfolio
  - 14.3.6.3 Financials
  - 14.3.6.4 SWOT Analysis
- 14.3.7 NXP Semiconductors N.V.
  - 14.3.7.1 Company Overview
  - 14.3.7.2 Product Portfolio
  - 14.3.7.3 Financials
  - 14.3.7.4 SWOT Analysis
- 14.3.8 ON Semiconductor Corp.
  - 14.3.8.1 Company Overview
  - 14.3.8.2 Product Portfolio
  - 14.3.8.3 Financials
  - 14.3.8.4 SWOT Analysis
- 14.3.9 Rockwell Automation Inc.
  - 14.3.9.1 Company Overview
  - 14.3.9.2 Product Portfolio
  - 14.3.9.3 Financials
  - 14.3.9.4 SWOT Analysis
- 14.3.10 Schneider Electric SE
  - 14.3.10.1 Company Overview
  - 14.3.10.2 Product Portfolio
- 14.3.11 Siemens AG
  - 14.3.11.1 Company Overview
  - 14.3.11.2 Product Portfolio
  - 14.3.11.3 Financials
  - 14.3.11.4 SWOT Analysis
- 14.3.12 Texas Instruments Inc.
  - 14.3.12.1 Company Overview
  - 14.3.12.2 Product Portfolio
  - 14.3.12.3 Financials
  - 14.3.12.4 SWOT Analysis

### 14.3.13 Hitachi Ltd.

#### 14.3.13.1 Company Overview

#### 14.3.13.2 Product Portfolio

## List Of Tables

### LIST OF TABLES

Table 1: Global: Circuit Protection Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Circuit Protection Market Forecast: Breakup by Type (in Million US\$), 2024-2032

Table 3: Global: Circuit Protection Market Forecast: Breakup by Device (in Million US\$), 2024-2032

Table 4: Global: Circuit Protection Market Forecast: Breakup by End-Use (in Million US\$), 2024-2032

Table 5: Global: Circuit Protection Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 6: Global: Circuit Protection Market: Competitive Structure

Table 7: Global: Circuit Protection Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Circuit Protection Market: Major Drivers and Challenges

Figure 2: Global: Circuit Protection Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Circuit Protection Market: Breakup by Type (in %), 2023

Figure 4: Global: Circuit Protection Market: Breakup by Device (in %), 2023

Figure 5: Global: Circuit Protection Market: Breakup by End-Use (in %), 2023

Figure 6: Global: Circuit Protection Market: Breakup by Region (in %), 2023

Figure 7: Global: Circuit Protection Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 8: Global: Circuit Protection (Overcurrent Protection) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 9: Global: Circuit Protection (Overcurrent Protection) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 10: Global: Circuit Protection (Electrostatic Discharge Protection) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Circuit Protection (Electrostatic Discharge Protection) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Circuit Protection (Overvoltage Protection) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Circuit Protection (Overvoltage Protection) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Circuit Protection (Circuit Breakers) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Circuit Protection (Circuit Breakers) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Circuit Protection (Fuses) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Circuit Protection (Fuses) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Circuit Protection (ESD Protection Devices) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: Circuit Protection (ESD Protection Devices) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Global: Circuit Protection (Surge Protection Devices) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Circuit Protection (Surge Protection Devices) Market Forecast: Sales

Value (in Million US\$), 2024-2032

Figure 22: Global: Circuit Protection (Residential Building Construction) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Circuit Protection (Residential Building Construction) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Circuit Protection (Non-Residential Building Construction) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Circuit Protection (Non-Residential Building Construction) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: Circuit Protection (Automotive) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: Circuit Protection (Automotive) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Global: Circuit Protection (Electrical and Electronics) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Global: Circuit Protection (Electrical and Electronics) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Global: Circuit Protection (Others) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Global: Circuit Protection (Others) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: North America: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: North America: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: United States: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: United States: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: Canada: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: Canada: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: Europe: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: Europe: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: Germany: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: Germany: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: France: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: France: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: United Kingdom: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: United Kingdom: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Italy: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Italy: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: Spain: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: Spain: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: Russia: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: Russia: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: Others: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: Others: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: Asia Pacific: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: Asia Pacific: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: China: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: China: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: Japan: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 59: Japan: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: India: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: India: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 62: South Korea: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: South Korea: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: Australia: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 65: Australia: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

2024-2032

Figure 66: Indonesia: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: Indonesia: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 68: Others: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: Others: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 70: Latin America: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 71: Latin America: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 72: Brazil: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 73: Brazil: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 74: Mexico: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 75: Mexico: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 76: Others: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 77: Others: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 78: Middle East and Africa: Circuit Protection Market: Sales Value (in Million US\$), 2018 & 2023

Figure 79: Middle East and Africa: Circuit Protection Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 80: Global: Circuit Protection Industry: SWOT Analysis

Figure 81: Global: Circuit Protection Industry: Value Chain Analysis

Figure 82: Global: Circuit Protection Industry: Porter's Five Forces Analysis



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