

# Electromechanical Relays Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

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## Abstracts

The Global Electromechanical Relays Market reached USD 7.1 billion in 2023 and is projected to grow at 3.6% CAGR from 2024 to 2032. This growth is largely driven by the increasing adoption of electric vehicles (EVs) and advanced driver-assistance systems (ADAS), particularly within the automotive sector. The demand for electromechanical relays in automotive applications has significantly surged as manufacturers focus on delivering reliable components to meet the sector's evolving technological needs. Power relays, designed to manage high current loads, play a pivotal role in areas such as power distribution, motor controls, and renewable energy systems. Their capability to handle higher power levels makes them indispensable across industries like manufacturing and utilities.

The expansion of renewable energy projects and ongoing infrastructure development further contribute to the rising demand for reliable power relays, underscoring their importance in supporting sustainable energy initiatives. Automotive relays, essential for controlling various electrical functions within vehicles, have seen a marked increase in demand. These relays regulate operations such as engine management systems, lighting, and power windows. The growing market for EVs and ADAS has accelerated the need for compact, durable relays that meet the stringent reliability standards required by the automotive industry.

As electric vehicles become more prevalent, the importance of automotive relays will continue to rise, fueling market growth. In terms of application, the switching segment of the electromechanical relays market is vital for managing electrical circuits in a range of applications, such as household appliances and industrial equipment. These relays provide dependable on/off control, enhancing both energy efficiency and operational

safety. As automation and smart home technologies become more widespread, the demand for reliable switching solutions steadily increases, driving growth within this segment.

U.S. electromechanical relays market accounted for a 77% share in 2023. The demand for electromechanical relays is supported by robust activity in the automotive, aerospace, and industrial automation sectors. Moreover, initiatives aimed at modernizing power infrastructure and expanding renewable energy usage have increased the demand for reliable relay systems. However, competition from solid-state relays poses a challenge to the traditional relay market.

## Contents

### Report Content

#### **CHAPTER 1 METHODOLOGY & SCOPE**

- 1.1 Market scope & definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculations
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid sources
    - 1.4.2.2 Public sources

#### **CHAPTER 2 EXECUTIVE SUMMARY**

- 2.1 Industry synopsis, 2021-2032

#### **CHAPTER 3 INDUSTRY INSIGHTS**

- 3.1 Industry ecosystem analysis
  - 3.1.1 Factor affecting the value chain
  - 3.1.2 Profit margin analysis
  - 3.1.3 Disruptions
  - 3.1.4 Future outlook
  - 3.1.5 Manufacturers
  - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
  - 3.6.1 Growth drivers
    - 3.6.1.1 Increasing demand in the automotive industry
    - 3.6.1.2 Rising investments in power infrastructure
    - 3.6.1.3 Advancements in industrial automation
    - 3.6.1.4 Growing demand in consumer electronics
  - 3.6.2 Industry pitfalls & challenges

- 3.6.2.1 Competition from solid-state relays (SSRs)
- 3.6.2.2 Limited lifespan and maintenance requirements
- 3.7 Growth potential analysis
- 3.8 Porter's analysis
- 3.9 PESTEL analysis

## **CHAPTER 4 COMPETITIVE LANDSCAPE, 2023**

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive positioning matrix
- 4.4 Strategic outlook matrix

## **CHAPTER 5 MARKET ESTIMATES & FORECAST, BY TYPE OF RELAY, 2021-2032 (USD BILLION)**

- 5.1 Key trends
- 5.2 General purpose relays
- 5.3 Power relays
- 5.4 Automotive relays
- 5.5 Time-delay relays
- 5.6 Reed relays
- 5.7 Latching relays
- 5.8 Contactor relays

## **CHAPTER 6 MARKET ESTIMATES & FORECAST, BY CONTACT ARRANGEMENT, 2021-2032 (USD BILLION)**

- 6.1 Key trends
- 6.2 SPST (Single pole single throw)
- 6.3 SPDT (Single pole double throw)
- 6.4 DPST (Double pole single throw)
- 6.5 DPDT (Double pole double throw)

## **CHAPTER 7 MARKET ESTIMATES & FORECAST, BY COIL VOLTAGE, 2021-2032 (USD BILLION)**

- 7.1 Key trends
- 7.2 Low voltage (Up to 110V)

7.3 Medium voltage (110V - 500V)

7.4 High voltage (Above 500V)

## **CHAPTER 8 MARKET ESTIMATES & FORECAST, BY MOUNTING TYPE, 2021-2032 (USD BILLION)**

8.1 Key trends

8.2 PCB mount

8.3 Panel mount

8.4 DIN rail mount

8.5 Socket mount

8.6 Through-hole mount

## **CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2032 (USD BILLION)**

9.1 Key trends

9.2 North America

9.2.1 U.S.

9.2.2 Canada

9.3 Europe

9.3.1 UK

9.3.2 Germany

9.3.3 France

9.3.4 Italy

9.3.5 Spain

9.3.6 Russia

9.4 Asia Pacific

9.4.1 China

9.4.2 India

9.4.3 Japan

9.4.4 South Korea

9.4.5 Australia

9.5 Latin America

9.5.1 Brazil

9.5.2 Mexico

9.6 MEA

9.6.1 South Africa

9.6.2 Saudi Arabia

### 9.6.3 UAE

## CHAPTER 10 COMPANY PROFILES

- 10.1 ABB Ltd.
- 10.2 Broadcom Inc.
- 10.3 CHINT Group
- 10.4 Coto Technology
- 10.5 Danfoss Group
- 10.6 Eaton Corporation
- 10.7 Finder S.p.A.
- 10.8 Fujitsu Ltd.
- 10.9 General Electric (GE)
- 10.10 Hella KGaA Hueck & Co.
- 10.11 Legrand SA
- 10.12 Littelfuse, Inc.
- 10.13 Mitsubishi Electric Corporation
- 10.14 Omron Corporation
- 10.15 Panasonic Corporation
- 10.16 Phoenix Contact GmbH & Co. KG
- 10.17 Rockwell Automation, Inc.
- 10.18 Schneider Electric
- 10.19 Schweitzer Engineering Laboratories (SEL)
- 10.20 Sensata Technologies
- 10.21 Siemens AG
- 10.22 TE Connectivity
- 10.23 TECO Electric & Machinery Co., Ltd.

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