

Global Motor Winding Temperature Protection Relay Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Motor Winding Temperature Protection Relay market size was valued at US\$ 352 million in 2025 and is forecast to a readjusted size of US\$ 495 million by 2032 with a CAGR of 4.7% during review period.

A Motor Winding Temperature Protection Relay is an independently powered protection module that receives signals from PTC or NTC thermistors, Pt100/Pt1000 RTDs, bimetal contacts or compatible temperature sensors embedded in or attached to an electric-motor winding and provides alarm, trip or cooling-control outputs when an overtemperature threshold or sensor fault is detected. The scope includes single- and multi-input thermistor evaluation relays, automatic/manual/remote-reset products, alarm-and-trip relays, hazardous-area-certified units and digital temperature protection modules whose primary function is direct winding-temperature protection; it excludes thermal overload relays based mainly on motor current, motor circuit breakers, comprehensive motor-management relays without a dedicated winding-temperature input, standalone sensors, embedded thermal cut-outs, general PID temperature controllers, transformer-only controllers, drives and soft starters, complete control panels and installation or monitoring services. One unit represents one independently installable relay module. The 2025 ASP is US\$137.02/unit, global sales volume is approximately 2,497.081 k units, and the estimated average gross margin is approximately 38%. The upstream chain includes PTC/NTC and RTD interface components, power-supply modules, microcontrollers, analog front ends, electromechanical relays, optocouplers, terminals, LEDs, displays, housings and printed circuit boards; midstream activities include circuit design, firmware development, assembly, calibration, functional testing, safety certification, enclosure integration and

packaging; downstream users include motor manufacturers, pump and compressor OEMs, motor-control-center builders, industrial machinery producers, HVAC equipment manufacturers, utilities, process plants and maintenance contractors.

Direct winding-temperature protection is gaining importance because current-based overload devices cannot fully capture overheating caused by blocked cooling, high ambient temperature, frequent starts or variable-frequency operation. Embedded sensors provide a closer indication of actual thermal stress.

PTC thermistors remain the mainstream input for simple trip protection, while RTD-capable relays are used where operators need actual temperature values, separate alarm and trip thresholds or bearing-temperature monitoring. Multi-sensor compatibility is increasing in higher-value products.

Product development is moving toward wider AC/DC supply ranges, narrower DIN-rail housings, pluggable terminals, sensor open/short detection and selectable reset behavior. Digital versions add displays, event memory, analog outputs and fieldbus communication for maintenance diagnostics.

Safety-critical installations favor fail-safe output logic, non-volatile fault storage and certified isolation. Hazardous-area motors in process industries create demand for relays that support recognized thermistor characteristics and approved shutdown functions.

Europe remains attractive because of its large installed base of industrial motors, strong machinery exports and emphasis on electrical safety and hazardous-area compliance. Replacement demand and energy-efficiency upgrades support steady growth.

The Middle East offers opportunities in oil and gas, petrochemicals, desalination, district cooling, water transfer and large HVAC systems. High ambient temperatures and continuous motor operation increase the value of direct winding sensing.

Report Scope

This report is a detailed and comprehensive analysis for global Motor Winding Temperature Protection Relay market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand

trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Motor Winding Temperature Protection Relay market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Motor Winding Temperature Protection Relay market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Motor Winding Temperature Protection Relay market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Motor Winding Temperature Protection Relay market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Motor Winding Temperature Protection Relay

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Motor Winding Temperature Protection Relay market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB Ltd.,

Siemens AG, Eaton Corporation plc, ZIEHL industrie-elektronik GmbH + Co KG, E. Dold & Söhne GmbH & Co. KG, Carlo Gavazzi Holding AG, Finder S.p.A., KRIWAN Industrie-Elektronik GmbH, Solcon Industries Ltd., MINILEC India Pvt. Ltd., etc.

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

Motor Winding Temperature Protection Relay market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

PTC Thermistor

NTC Thermistor

RTD

Multi-Sensor Compatible

Market segment by Reset Mode

Automatic Reset

Manual Reset

Remote Reset

Configurable Reset

Market segment by Number of Temperature Inputs

1 Input

2 Inputs

3–6 Inputs

More Than 6 Inputs

Market segment by Application

Oil and Gas

Mining and Metals

Water and Wastewater

Power Generation

Others

Major players covered

ABB Ltd.

Siemens AG

Eaton Corporation plc

ZIEHL industrie-elektronik GmbH + Co KG

E. Dold & Söhne GmbH & Co. KG

Carlo Gavazzi Holding AG

Finder S.p.A.

KRIWAN Industrie-Elektronik GmbH

Solcon Industries Ltd.

MINILEC India Pvt. Ltd.

Broyce Control Ltd.

Multispan Control Instruments Pvt. Ltd.

Zhejiang Geya Electrical Co., Ltd.

Ghanacon Products

General Industrial Controls Pvt. Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Motor Winding Temperature Protection Relay product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Motor Winding Temperature Protection

Relay, with price, sales quantity, revenue, and global market share of Motor Winding Temperature Protection Relay from 2021 to 2026.

Chapter 3, the Motor Winding Temperature Protection Relay competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Motor Winding Temperature Protection Relay breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Motor Winding Temperature Protection Relay market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Motor Winding Temperature Protection Relay.

Chapter 14 and 15, to describe Motor Winding Temperature Protection Relay sales channel, distributors, customers, research findings and conclusion.

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