

Global Motor Winding Temperature Protection Relay Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Motor Winding Temperature Protection Relay market size is expected to reach \$ 495 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

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 studies the global Motor Winding Temperature Protection Relay production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Motor Winding Temperature Protection Relay and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores

demand trends and competition, as well as details the characteristics of Motor Winding Temperature Protection Relay that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Motor Winding Temperature Protection Relay total production and demand, 2021-2032, (K Units)

Global Motor Winding Temperature Protection Relay total production value, 2021-2032, (USD Million)

Global Motor Winding Temperature Protection Relay production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Motor Winding Temperature Protection Relay consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Motor Winding Temperature Protection Relay domestic production, consumption, key domestic manufacturers and share

Global Motor Winding Temperature Protection Relay production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Motor Winding Temperature Protection Relay production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Motor Winding Temperature Protection Relay production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Motor Winding Temperature Protection Relay market

Detailed Segmentation:

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

Global Motor Winding Temperature Protection Relay Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Motor Winding Temperature Protection Relay Market, Segmentation by Type:

PTC Thermistor

NTC Thermistor

RTD

Multi-Sensor Compatible

Global Motor Winding Temperature Protection Relay Market, Segmentation by Reset Mode:

Automatic Reset

Manual Reset

Remote Reset

Configurable Reset

Global Motor Winding Temperature Protection Relay Market, Segmentation by Number of Temperature Inputs:

1 Input

2 Inputs

3–6 Inputs

More Than 6 Inputs

Global Motor Winding Temperature Protection Relay Market, Segmentation by Application:

Oil and Gas

Mining and Metals

Water and Wastewater

Power Generation

Others

Companies Profiled:

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.

Key Questions Answered

1. How big is the global Motor Winding Temperature Protection Relay market?
2. What is the demand of the global Motor Winding Temperature Protection Relay market?
3. What is the year over year growth of the global Motor Winding Temperature Protection Relay market?
4. What is the total value of the global Motor Winding Temperature Protection Relay market?
5. Who are the Major Players in the global Motor Winding Temperature Protection Relay market?
6. What are the growth factors driving the market demand?

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