

Article Overview

High voltage protection relays typically range from a few hundred to several thousand USD depending on type, voltage rating, and features.

Price Ranges by Type

- o Electromechanical Relays: Basic high-voltage relays with mechanical contacts generally cost \$300-\$1,200 depending on voltage rating and current capacity .
- o Solid-State Relays: Faster switching, longer lifespan, and higher reliability; prices typically range from \$500-\$2,500 .
- o Hybrid Relays: Combine electromechanical isolation with semiconductor technology for arc-free operation; prices can reach \$1,500-\$5,000 or more for advanced models with integrated protection functions .

Factors Affecting Price

- o Voltage Rating: Devices for extra-high voltage (EHV) applications cost significantly more than medium voltage relays due to insulation and safety requirements .
- o Protection Functions: Relays with multiple protection features (overvoltage, undervoltage, earth fault, overexcitation, line distance protection) are more expensive .
- o Communication Protocols: Support for Modbus, Profibus, DNP3.0, IEC 61850, and other protocols increases cost due to embedded electronics and software integration .
- o Durability and Certification: Industrial-grade relays with long life cycles (20-25 years) and compliance with international standards (IEC, UL) are priced higher .
- o Software and Monitoring Tools: Devices with integrated software for parameter setting, disturbance analysis, and cyber security features add to the overall cost .

Vendor Examples

- o Mouser Electronics: Offers a wide range of high voltage relays, contactors, and solenoids with datasheets and inventory listings, suitable for industrial and utility applications .
- o SEG HighPROTEC Line: Medium voltage protection relays with comprehensive functions, robust design, and multiple communication protocols; pricing varies by model and configuration .
- o Alibaba & DirectIndustry: Provide a broad selection of high voltage protection relays, including hybrid and solid-state types; prices are indicative and may vary by country, excluding taxes, shipping, and installation .

Purchasing Considerations

- o Installation Costs: High voltage relays often require professional installation, which is not included in the base price .

Price of High Voltage Relay Protection

- o Customization: Some relays can be configured for specific voltage ranges, protection functions, or communication protocols, affecting final cost .
- o Maintenance and Lifespan: Solid-state and hybrid relays generally have lower maintenance costs and longer operational life compared to electromechanical relays . In summary, high voltage protection relays are priced based on type, voltage rating, protection features, and vendor specifications, with typical ranges from \$300 for basic electromechanical units to over \$5,000 for advanced hybrid relays. For precise pricing, it is recommended to request quotes from suppliers like Mouser, SEG Electronics, or industrial marketplaces such as DirectIndustry and Alibaba, specifying the required voltage, protection functions, and communication protocols.

Protect critical components in your power system with a wide range of SEL protective relays covering applications and use cases

PowerLogic(TM) P3 Protection Relays Compact medium voltage protection relays From overcurrent to

Reed Relay for high voltage applications. Our high voltage relays can stand-off from 1kV to 15kV and switching 500V to 12.5kV at up

ABB's smart protection technology ensures smooth and safe everyday life without blackouts. ABB released its first programmable

Voltage protection is the most basic protection in a power grid. The objective of a protection scheme is to keep the power system

The Protection Relay is a premium choice in the Relay category. Yes, many relay factories support custom relay orders for bulk or

Protection relays have different functions. They are often made up of several modules, each of which performs a specific function. In

Find here Schneider Electric Voltage Relays, Schneider Electric Voltage Control Relay

[345 Pages Report] Protective Relay Market research report by Voltage (Very high, High, Medium, Low), Technology (Digital and

Shop DigiKey's large in-stock selection of Protection Relays & Systems. View inventory, pricing and order now for same day shipping!

TE's high voltage relays are engineered to interrupt DC loads while providing high shock and vibration

Price of High Voltage Relay Protection

resistance and can withstand

Numerical relays are based on the use of microprocessors. The first numerical relays were released in 1985. A big difference

High Voltage Relays, Contactors & Solenoids are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for

Find high voltage protection relays for reliable EV charging and industrial automation. Shop our durable, efficient, and customizable

Find your high-voltage protection relay easily amongst the 19 products from the leading brands (SIEMENS, E-T-A, Copper rec, ...) on

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