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Price of relay protection for power distribution systems



Overview

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

Key Takeaways

The price of relay protection devices varies widely depending on type, voltage rating, and functionality, typically ranging from a few hundred to several thousand USD per unit.Factors Affecting Price
• Type of Relay
• Electromechanical relays are generally less expensive but offer limited functionality.

• Static relays are moderately priced and provide faster response than electromechanical types.

• Numerical (digital) relays are programmable, multifunctional, and more expensive due to advanced microprocessor-based features .

• Voltage Rating and Application
• Low-voltage relays (up to 1 kV) for industrial or commercial feeders are usually cheaper.

• Medium-voltage relays (11–33 kV) for distribution feeders or substations cost more.

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• High-voltage relays (66–132 kV) for transmission lines or busbar protection are the most expensive .

• Functionality and Features
• Basic overcurrent or directional relays are at the lower end of the price spectrum.

• Multifunctional relays with distance protection, auto-reclosing, bus differential, or digital substation integration are significantly more costly .

• Advanced features like fault location, arc-flash mitigation, and remote monitoring increase the price.

• Manufacturer and Support
• Leading manufacturers like ABB, SEL, and Guowei Zhichuang provide high-quality relays with warranties, software tools, and technical support, which can affect cost .

• Prices are often quoted individually based on system specifications, installation requirements, and quantity.

Typical Price Ranges
• Low-voltage feeder relays: $300–$1,500 per unit

• Medium-voltage distribution relays (11–33 kV): $1,500–$5,000 per unit

• High-voltage line or busbar relays (66–132 kV): $5,000–$15,000+ per unit These ranges are indicative; actual prices depend on custom configurations, communication protocols, and additional features .
Recommendation

For accurate pricing, it is best to contact manufacturers or authorized distributors with your system specifications, including voltage level, feeder type, and required protection functions. Many suppliers provide quotation and selection guidance to ensure the relay meets your distribution system needs .

Article Content

Protective Relays

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

Protection Relays | Overcurrent, Differential & Distance

RSP Supply offers a comprehensive range of protection relays for industrial, utility, and infrastructure

Protection Relays

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Compact medium voltage protection relays From overcurrent to advanced protection, these easy-to-use protection relays (formerly

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Protection Relays

Withdrawable protective relays for demanding Medium Voltage applications Medium Voltage protection

How do relays function in protecting distribution systems?

Relays are crucial for protecting distribution systems by spotting and isolating faults to prevent damage and maintain

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These relays are widely applied in distribution protection and transmission systems, safeguarding

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A protection system is used to detect defective power system elements or conditions of an abnormal or dangerous nature, to initiate

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6 different types of relaying schemes to protect the EHV and UHV ...

A substation can employ many relaying systems to protect the equipment associated with the station. The most

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Protective Relays: Types, Working Principle & Uses

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In power systems engineering, relay protection is applied across generation, transmission,

Feeder protection and control

Feeder protection, or more exactly protection for overhead lines and cables, is the most commonly used type of protection. The

Protective Relaying Principles and Applications

The article provides an overview of protective relaying principles and their applications for high-voltage power system components. It

Protection and Control Intelligent Electronic Devices (IED)

PS640 Series Medium-voltage Protection Relays Hitachi Energy''s PSF640 is designed for the protection, control, measurement, and

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Protection Relays for Custom Applications 16 types of digital current or voltage protection for any

Products

SEL introduced the world''s first microprocessor relay in 1984, revolutionizing the power protection industry by offering fault locating

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Eaton''s E-Series microprocessor-based protective relays offer reliable, secure and complete protection and control of power

Protective Relay Market Report 2024-2030 [345 Pages & 430 Tables]

The global market for protective relay is experiencing significant growth, driven by several key factors. Firstly, the increasing demand

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44 Protective Relay Manufacturers in 2026

The company makes TESLA power system recorders, relay test blocks, portable recorders, protection relays, and transformer

POWER SYSTEM PROTECTION RELAYS AND HARDWARE

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C37.230-2020

C37.230-2020 - IEEE Guide for Protective Relay Applications to Distribution Lines Abstract: A review of generally accepted

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Introduction to Protective Relaying What are Protective Relays, or Protection Relays? Protective relays are used in industrial power

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