

List of Relay Protection Products



AI Overview

Protective relays are essential devices in power systems, with commonly used types including overcurrent, differential, distance, earth fault, voltage, and frequency relays.

Types of Protective Relays by Function

- Overcurrent Relay (OCR):** Operates when current exceeds a preset limit to protect equipment from overloads or short circuits. Variants include instantaneous, definite time, and inverse time relays.
- Differential Relay:** Compares currents at two points and operates when there is a difference, commonly used for transformers, generators, and busbars.
- Distance Relay (Impedance Relay):** Trips based on the impedance of a transmission line, widely used in line protection.
- Earth Fault Relay (Ground Fault Relay):** Detects leakage currents to the ground, protecting against insulation failures.
- Over/Under Voltage Relay:** Protects equipment from abnormal voltage conditions, ensuring stability in power systems.
- Frequency Relay:** Trips when system frequency deviates from normal limits, safeguarding generators and sensitive loads.
- Directional Relay:** Operates based on the direction of current flow, often used in complex network protection.
- Lockout Relay (86):** Provides a lockout function for critical equipment like transformers to prevent repeated operation after a fault.
- Pilot Wire Relays:** Used for long transmission lines, employing wire, carrier-current, or microwave channels to detect internal faults.

Common ANSI/IEEE Standard Device Numbers

- 50/51: Instantaneous/Time Overcurrent Relay
- 50N: Instantaneous Ground Fault Relay
- 51N: Time Ground Fault Relay
- 87: Differential Relay
- 21: Distance Relay
- 59: Overvoltage Relay
- 27: Undervoltage Relay
- 81: Frequency Relay
- 86T: Transformer Lockout Relay

Summary

Protective relays are classified by function, operating principle, and mechanism (electromechanical, static, or numerical). Modern numerical relays combine multiple functions, offer fast response, self-diagnostics, and event recording, making them suitable for complex power systems. These devices ensure equipment...

Article Content

Protection Relays

Equipped with modular hardware that offers a wealth of features, this product combines flexibility with high cost efficiency, allowing users to utilize all available functions.

List of Protective Relays Models & Products | TE Connectivity

Search our portfolio of Protective Relays products and select your specifications. We offer a wide array of reliable and cost-effective products from standard solutions to custom designs.

Eaton Price List 2026 – Power Management Components

Download the Eaton 2026 Price List for MCCBs, ACBs, industrial controls, relays and power management components. Updated pricing and fast delivery from

Connecting Azure Sphere to Azure IoT Edge | Microsoft Community Hub

Step-by-step (with video!) to connect Azure Sphere to Azure IoT Edge and authenticate a device.

Kingsine: Electrical Test and Measurement Equipment

Kingsine, a global leading electrical test and measurement equipment manufacturer, offers comprehensive electrical testing solutions, products covering relay test kit,

VIOX ELECTRIC

VIOX manufactures circuit protection, switching, motor control, and panel accessories for distributors, OEMs, panel builders, and solar system integrators.

Products under Compulsory Certification

BIS certification scheme is basically voluntary in nature. However, for a number of products compliance to Indian Standards is made compulsory by the Central Government under

Protection relays — ABB Group

ABB's smart protection technology ensures smooth and safe everyday life without blackouts. ABB released its first programmable relays based on the use of microprocessors in 1985. ABB's Relion®

Protection Relays | Products | MITSUBISHI ELECTRIC Factory

MELPRO series line up offers appropriate protection systems for the power distribution systems ranging from high voltage to extra high, and provides products with great precision and reliability suited to the

TF42-10 | ABB

The TF42-10 thermal overload relay is an economic electromechanical protection device for the main circuit. It offers reliable and fast protection for motors in the

Protective Relays

Protect critical components in your power system with a wide range of SEL protective relays covering applications and use cases from low to high-voltage protection.

Protection relays

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

The Top 10 Relay Manufacturers List of 2026

Find the right partner with our relay manufacturers list. We compare the top 10 global players on quality, support, and supply chain to simplify your

Top Protective Relay Companies 2034 | Market Leaders & Insights

Explore top companies in protective relay market, market share, leading players, and strategic insights shaping grid protection and smart energy systems by 2034.

Protection Relays | Medium & high voltage power system protection

Discover protection relays for generators, motors, transformers, feeders and busbars, designed for reliable and efficient power system protection.

Relays-Online

ABB Relays-Online makes finding, selecting, ordering, and tracking of your next digital substation product order quick and easy. The modular e-business platform is the one place where you will find

Relays, Fuses, and Circuit Breakers | Protection Devices for Electrical ...

Comprehensive guide to electrical protection devices including relays, fuses, and circuit breakers, with specifications, selection criteria, and applications in aerospace, military, and

Top 10 Protective Relay Manufacturers: Market Share

Analyze the top 10 protective relay manufacturers. Get VMR's proprietary analyst insights on market share (18.4% lead), technical scalability,

Primary Protection Relays | ABB

ABB's Relion family of protection and control relays for primary distribution offers a wide range of products for protection, control, measurement and supervision of power distribution systems for IEC

40 loss of excitation relay

Type 40 is an offset mho impedance relay used for loss of excitation protection of a generator operating in parallel with other system generators

Microsoft Security Response Center Blog

A shared responsibility: Protecting customers through Coordinated Vulnerability Disclosure Wednesday, May 27, 2026 In recent weeks several zero-day vulnerabilities have been

directory-list-2.4.txt/directory-list-2.4.txt at main

directory-list-2.4.txt process improving dirbuster 2.4 V5.md directory-list-2.4.txt / directory-list-2.4.txt bestutsengineer V5 ff57f53 · 3 months ago

Feeder protection and control REF615 IEC

REF615 is a dedicated feeder IED aligned for the protection, control, measurement and supervision of utility and industrial power distribution systems.

All Products | Schneider Electric India

Discover Schneider Electric range of products: PLCs, motor starters, drives, circuit breakers, switches, sockets, lighting, transformers, substations, UPS Discover ...

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