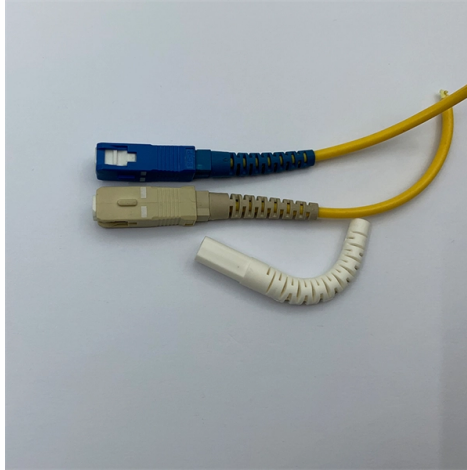


Large Relay Protection Device Models



Article Overview

Large relay protection devices include multifunctional, modular, and digital relays from leading manufacturers like ABB, Siemens, Schneider Electric, Eaton, and Phoenix Contact, designed for medium- and high-voltage power systems.

Key Relay Models and Manufacturers

ABB offers numerical relays that are microprocessor-based and multifunctional, allowing programmable settings for various protection tasks in medium-voltage substations. Popular models include the REX615 and REX640, which provide advanced protection, control, and monitoring capabilities. Siemens SIPROTEC relays are modular and highly configurable using the DIGSI 5 engineering tool. Notable models include:

- SIPROTEC 7SX82: Universal protection for feeders, lines, and motors in medium-voltage grids.
 - SIPROTEC 7SD80/7SD82/7SD86/7SD87: Line differential protection for medium- and high-voltage systems, supporting multiple infeed ends and fast 3-pole tripping.
 - SIPROTEC 7SA82/7SA86/7SA87: Distance protection relays with fast tripping times (as low as 9 ms) and modular I/O for high availability.
 - SIPROTEC 7SL82/7SL86: Combined line differential and distance protection for complex line and cable networks.
- Schneider Electric provides the MiCOM and PowerLogic series for medium-voltage applications:
- MiCOM P11x: Compact phase and ground fault protection with self- or dual-powered options.

Article Content

Protection Functions

A comprehensive relay library based on manufacturer-specific protection devices is available and can be used in steady-state and for

Gridscale X Advanced Protection Assessment | Siemens

Gridscale X Advanced Protection Assessment Access the world's largest library of 7,300+ relay models to power accurate and

Surge Protective Devices | Products | ABB

Surge Protective Devices are designed to protect against transient surge conditions. Large single surge events, such as lightning,

Protection relays — ABB Group

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

Feeder protection and control

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

SEL-849 Motor Management Relay | Schweitzer Engineering

The SEL-849 provides current, voltage, and thermal-based protection, arc-flash detection, and power metering for motor protection

Protective relays for mains protection | Phoenix Contact

Our comprehensive portfolio of protection technology enables reliable grid availability in the voltage ranges of 10 kV to 110 kV. The

Construction of the relay protection device model data center

Relay protection systems in the power grid are individually modeling protection devices based on their respective operational

Protection Relays | Medium & high voltage power system protection

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

Motor protection and control

Motor protection is used to prevent damage to the electrical motor, such as internal faults in the motor. Also external conditions when

Protective Relay Basics

Traditionally, protective relays were electromechanical devices that utilized induction disk, coils, contacts, and solenoid elements to

Protective Relays

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

Types of Protective Relays

This article covers various types of protective relays, such as overcurrent, directional, and differential relays, highlighting their

Electronic relays and controls | Products | ABB

ABB offers the most extensive range of electronic timers, measuring and monitoring relays, interface relays and power supplies in the

Relay Models and Protection Devices List

The document lists protection device types and their corresponding relay models. It includes 59 protection device types such as

Societal and technology trend report

The crisis of traditional relay protection: A disruption of the technological paradigm
Using the high short-circuit currents and system

SIPROTEC Protection Relays | Siemens

SIPROTEC: Multifunctional protection relays Experience the benchmark in grid protection, automation, and monitoring! SIPROTEC

GRIDSCALE X ADVANCED PROTECTION ASSESSMENT Highly

Discover more than 7,300 highly-detailed relay styles, reclosers, and fuses to power accurate and efficient protection simulations

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