

Relay Protection Device Models and Specifications



Summary of Content

Relay protection devices are designed to detect faults and abnormal conditions in electrical systems, providing fast, selective, and reliable isolation of faulty sections to protect equipment and maintain system stability.

Types of Relay Protection Devices

1. Distance and Differential Relays:

- SIPROTEC 7SA87: Modular distance protection for high-voltage lines, offering 1-pole or 3-pole tripping with a minimum 9 ms tripping time .
- SIPROTEC 7SL82/7SL86/7SL87: Combined line differential and distance protection for lines and cables, supporting up to 6 ends, flexible I/O, and high availability with conformal coating for extreme environments .

- #### 2. Overcurrent Relays:
- SIPROTEC 7SJ82/7SJ85/7SJ86: Provide modular overcurrent protection for feeders, lines, and capacitor banks, with flexible automation, control, and monitoring options .

3. Transformer Protection Relays:

- SIPROTEC 7UT82/7UT85: Differential protection for two-winding transformers, offering versatile functions, modular hardware expandability, and high reliability .

4. Motor Protective Relays (MPR):

- Eaton EMR-3000: Microprocessor-based relay for motor protection, monitoring true RMS current, separating positive and negative sequence components, and integrating temperature data from RTDs for adaptive protection algorithms .

Article Content

Protection relays

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

Practical handbook for relay protection engineers | EEP

This handbook covers the code of practice in protection circuitry including standard lead and device numbers, mode of

Protective Relays: Overcurrent and Safety Relays | TE Connectivity

TE offers types of protective relays from overcurrent relays to safety relays that trips a circuit breaker when a fault is detected such

Types of Electrical Protection Relays or Protective Relays

Protective Relay Definition: A protective relay is an automatic device that senses abnormal conditions in electrical

Protective relays and predictive devices | Eaton

Eaton's protective relays provide you with unique microprocessor-based devices that eliminate unnecessary trips, isolate faults,

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

Relay Models for Protection Devices | PDF | Relay | Transformer

The document lists 236 relay models from various manufacturers and provides a brief description for each model. The relay models

Protective Relays: Types, Working Principle & Uses

Learn how protective relays detect faults, trip breakers, coordinate protection zones, and protect feeders,

Protective relay

Microprocessor-based solid-state digital protection relays now emulate the original devices, as well as providing types of protection

Protection Relays

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

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

