

ABB Relay Protection Device



Article Overview

ABB relay protection devices, particularly the Relion series, provide advanced protection, control, measurement, and supervision for power distribution systems, ensuring safe and reliable electricity flow.

Overview

ABB's Relion family of protection and control relays is designed for primary and secondary power distribution, supporting both IEC and ANSI applications. These relays monitor electrical networks, detect abnormal conditions, and autonomously make protection decisions to prevent equipment damage and maintain system stability. ABB relays are widely deployed globally, supervising electricity distribution networks in over 100 countries.

Key Products

- REX615: An all-in-one protection and control relay for power generation and distribution, offering modular and scalable hardware and software for flexibility and cost-efficiency throughout its lifecycle.
- REX640: A powerful, freely configurable relay for primary distribution, available in narrow and standard case widths with identical software options, allowing high customization and adaptation to changing protection requirements.
- 615 Series: Provides ANSI-compliant protection functions, configurable logic blocks, and IEC 61850 communication capabilities, suitable for integration in new, retrofit, or upgrade projects

Article Content

Jan 07, 2026

Electromechanical relays

ABB electromechanical relays have protected the power system for more than 100 years, and with the proper inspection,

Jul 22, 2026

Power generator protection and control

Generators must be provided with protective relays which, in case of a fault, quickly initiate a disconnection of the machine from the

Mar 30, 2026

Motor protection and control

Vibration, torque, and other mechanical limits Nature of the process Environment of motor, associated switching device Hot and cold

May 02, 2026

ABB Power Relays

Buy ABB Power Relays. Newark Electronics offers fast quotes, same day dispatch, fast delivery, wide inventory, datasheets &

Dec 13, 2025

Protection relay selection table

Protection relay selection table Please note before using selection table! number = Number of stages, shots, X =

Nov 07, 2025

Relion protection and control

The Relion® products offers protection, control, measurement and supervision of power systems for IEC and ANSI applications.

Jul 20, 2026

Transformer protection and control RET615 IEC

RET615 is a dedicated transformer protection and control relay for protection, control, measurement and supervision of power

Oct 01, 2025

Protection Application Handbook

The major requirements on protection relays are speed, sensitivity and selectivity. Fault calculations are used when checking if

Sep 15, 2025

Motor protection relay REM610

REM610 is a motor protection relay for the protection, measurement and supervision of medium-sized and large asynchronous LV

May 25, 2026

relays.protection-control.abb

ABB Relays-Online makes finding, selecting, ordering, and tracking of your next digital substation product

Jan 14, 2026

Electronic relays and controls catalog 2022

Chapter 2 - Measuring and monitoring relays Choose among a large range of products to ensure reliable protection, save cost and

Jun 01, 2026

Protection relays

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

Aug 29, 2025

Protection and control REX610

REX610 is a member of the renowned Relion® protection and control family of relays, building on ABB's strong heritage of freely

Aug 18, 2025

Voltage protection and control

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

Mar 11, 2026

Protective Relay Basics

The objective of this presentation is to convey a basic understanding of protective relays to an audience of engineers already familiar

Sep 12, 2025

Feeder protection relay REF615 ANSI

Feeder protection relay REF615 ANSI Reliability, security, and dependability with Relion® The REF615 is a dedicated feeder relay

Oct 23, 2025

Basic protection relay knowledge

On the other hand, unselective protection operation in the extra high voltage network - i.e. at the national grid level- may endanger

Jul 03, 2026

ABB Surge Protective Devices

ABB Surge Protective Devices - SPD are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for ABB

Dec 06, 2025

Voltage protection REU611

The voltage protection relay is used for a wide variety of applications, including busbar, power transformer, motor and capacitor bank

May 24, 2026

Protection relays — ABB Group

The main purpose of protection relays is to observe the electrical grid and make protection decisions autonomously so that flow of

Oct 21, 2025

Generator and interconnection protection REG615 ANSI

REG615 is a dedicated generator protection relay for protection, measurement and supervision of power generators in power

Dec 24, 2025

Relays-Online

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Transformer protection and control RET630 IEC

Not active product since 2024 RET630 is a comprehensive transformer management relay for the protection, control, measurement

Dec 28, 2025

Feeder protection and control

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

Aug 23, 2025

Protection and control products for power distribution

In this ABB Review article, Jani Valtari explores how combining the functions of multiple relays into one device, centralized protection

Sep 21, 2025

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,

Aug 06, 2025

Transformer protection and control

Transformer protection relays are used for protection, control, measurement and supervision of power transformers.

Contact Us

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

Website: <https://www.greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

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