ABB

Protection and control REX610
All-in-one protection for any basic power distribution application

REX610 is a freely configurable all-in-one protection relay that covers the full range of basic power distribution applications, without forgoing simplicity. The small number of variants translates into easy ordering, set up, use and maintenance. Rich in functionality, with a fully modular hardware unlocking all available functionality, REX610 represents both a flexible and cost-effective choice.

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01 Protection and
control REX610

One device for all basic applications – and more
REX610 represents the latest addition to ABB's renowned Relion® protection and control family of relays. It builds on ABB's strong heritage of freely configurable multifunctional relays and many proven protection algorithms. Decades of experience and extensive expertise in protection and control ensure REX610 provides optimal protection for all basic power distribution applications – and more.

Rich in functionality, REX610 covers the full range of basic utility applications. The modular and scalable design makes creating your unique protection solution easy, whereas the extensive range of default functionality, including communication, allows easy alterations with no additional costs nor hardware changes. This makes REX610 not only flexible but also a very cost-effective choice.

Simplicity as a hallmark of REX610
Simplicity permeates all aspects of REX610 – it is easy to order, set up, use and maintain. It is a pure plug-and-play solution with the modular hardware unlocking all available functionality.

With freely configurable binary inputs and outputs, and analog inputs, the voltage or current range does not need to be specified at the ordering stage. The result is a minimum number of variants and maximum application flexibility.

If, for instance, protection requirements change, modules can be easily added, removed or replaced
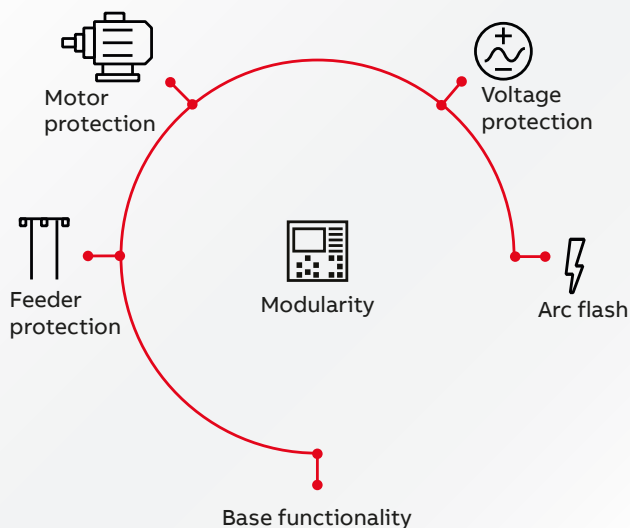
instead of replacing the entire relay. The withdrawable plug-in unit ensures swift replacement and short meantime to repair, with minimized costly downtime as a result. The small number of variants makes it easy to keep in stock, which further adds to the convenience.

REX610 is equipped with a front USB (Universal Serial Bus) port for connecting the relay to a PC (Personal Computer). This allows easy retrieval of information, such as disturbance recordings, without any additional software. Changing the configuration still requires using ABB's relay setting and configuration tool, PCM600, whereas parameter settings can be altered either using PCM600 or the relay's human-machine interface (HMI). The USB port also allows powering the relay if the substation is down.

Future-proofed for an evolving grid
REX610 allows easy and flexible adaptation to changing protection and communication requirements for the entire lifetime of the relay. The extensive range of default functionality is easily accessible via PCM600, whereas new functionality is continuously accessible via firmware updates. In addition, the modular hardware makes modifications possible at any time.

Fully IEC 61850-compliant, REX610 ensures communication and interoperability between substation automation devices today and for years to come as the grid evolves.

Extensive life cycle services for optimal usability

ABB offers extensive life cycle services to ensure safe, reliable and cost-effective protection solutions with predictable maintenance costs for the lifetime of the relay. The wide variety of services include training, customer support, maintenance and modernization services.

Among the many services is a web-based data-sharing and backup service, ABB Ability™ Backup Management for electrical systems – Data Care, available as an optional add-on. Data Care offers secure storing and easy sharing of technical information on your protection relays – online. It is also via Data Care that the firmware updates are accessed.

ABB can also offer a convenient, tailor-made retrofit adapter to allow smooth replacement of SPACOM relays with REX610 relays, representing the latest protection and control technology. The identical cut-out makes the replacement fast and easy. The result is extended switchgear lifetime, full availability of relay life cycle services, and the possibility to adapt the power protection system to meet new requirements.

REX610 – multiapplication coverage and simplicity for the evolving grid

- Multiapplication coverage with one device for optimal flexibility and cost-effectiveness
- Easy and flexible customization and adaptation to changing protection and communication requirements with modular and scalable design
- Easy ordering, set up, use and maintenance with only a few variants covering all basic applications
- Plug-and-play solution with installed hardware modules unlocking all available functionality
- Extensive range of default functionality, including communication, for easy alterations with no additional costs
- Continuous access to incrementally released new functionality via firmware updates
- Easy to keep in stock due to small number of variants
- Withdrawable plug-in unit for swift replacement, short meantime to repair, and minimized costly downtime
- Possibility of replacing one or several modules instead of replacing the entire relay
- IEC 61850-compliant communication and interoperability between substation automation devices
- Convenient, tailor-made retrofit adapter to allow smooth replacement of SPACOM with REX610 relays