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Smart substation control and protection SSC600

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Smart substation control and protection for resilient electrical networks

SSC600

SSC600

A revolutionary way to approach protection and control in distribution networks

The ability to protect and control a wide variety of utility and industrial applications with a single device allows convenient station-wide visibility, minimal engineering, as well as easy and cost-efficient system management



100%
futuristic

Smart



- Protection and control functionality centralized in one device in the substation for reduced complexity
- Centralized access to control and monitoring functionality via a single human-machine interface (HMI)
- Customization and flexibility with a set of base functionality and optional application packages
- Enables new applications such as disturbance recordings for the entire substation

Sustainable

- Optimized lifelong asset management for the entire digital substation
- SSC600 enables real-time monitoring and control of distributed energy resources (DER) such as wind and solar

Net Zero as the goal
2050



Cost-optimized

- Unprecedented flexibility with up to 15 percent savings in life cycle costs can be achieved as it offers a platform for developing new functionalities as required
- Cost-efficient package incorporating merging units to form a customizable protection and control solution

-15%
Life cycle
cost savings



Smart substation control and protection SSC600

Centralized protection for distribution substations

Innovative

- Centralizes all protection and control functionality in one single device on distribution substation level
- Fully based on international standards such as IEC 61850



Future-proof and flexible

- Fully modular software allows SSC600 to change with the evolving grid and increasing digitalization of substations
- Maximum flexibility throughout the substation's entire lifetime
- IEC 61850-3-certified with inbuilt redundancy and self-supervision

Easy-to-use and cost-effective

- Minimal engineering from start to finish
- Fast and easy system-wide upgrades
- Extensive application coverage with one device
- Disturbance recordings for the entire substation

Optimized management

- Easy and efficient process management with station-wide visibility
- Cost-efficient maintenance with reduced amount of product variants
- Efficient configuration back-up management

ABB