



SPRECON[®]-E-P DS6

Overcurrent Protection with
Many Additional Functions

OVERCURRENT PROTECTION

The overcurrent protection devices from Sprecher Automation are used in distribution and industrial grids as main protection for almost every application. They protect, for example, single- and double-fed overhead lines and cables, motors, transformers, busbars, capacitor banks and ensure grid stability. In high-voltage and extra-high-voltage grids, they are used as backup protection. As an ISO 27001-certified company, we have of course implemented comprehensive IT security features in our overcurrent protection devices. This guarantees the greatest possible security – especially if you are active in the area of critical infrastructure.



FLEXIBLE POSSIBILITIES

As with most protection devices from Sprecher Automation, you can also choose exactly the type of overcurrent protection device that best suits your requirements:

- SPRECON-E-P DS..6-1
(Protection device with control function)
- SPRECON-E-P DS..6-2 combined device
(Modular protection & control device)

With the SPRECON-E-P DS..6-1 type, you can protect a bay and control the disconnectors and circuit breakers.

SPRECON-E-P DS..6-2 units also offer many functions of a bay control unit, e.g. reactive power or $\cos(\varphi)$ control of photovoltaic systems, or AVR control.

Line protection for all voltage levels and all neutral point treatments

- Directional overcurrent protection
- Auto reclosing (AR)
- Synchrocheck
- Teleprotection
- Circuit breaker failure protection with current step detection
- SPRECON-EDIR: Earth fault direction detection with numerous patented methods

System protection

- UFLS: Frequency load shedding protection according to current FNN & TOR standard

Neutral point protection

- Current differential protection
- High impedance protection

Busbar protection

- Reverse interlocking
- High impedance protection



Overcurrent Protection & Bay Control
SPRECON-E-P DS6



VARIOUS PROTOCOLS

So that you can optimally integrate the Sprecher protection devices into your communication system, they support different protocols:

- IEC 60870-5-103/-104
- IEC 61850
- RSTP, PRP, HSR

COMFORTABLE OPERATION

Both in terms of configuration and on-site operation, the Sprecher protection devices offer several advantages:

The SPRECON-E COMM3 tool in the Sprecher Engineering Center accompanies you through all phases of your project, from engineering, commissioning and protection testing to daily operation.

On site, you use the detachable control panel with a high-resolution colour display and 25 freely settable, three-colour signal LEDs. Of course, this also allows you to make protection and control settings directly in the system, as well as to clearly display process and device information.

You can carry out simple service tasks via the multiply secured web server – without the need for any additional tools:

- Alarm & event lists, display process images
- Information on network & system status
- Service & diagnostic functions (settings, firmware & parameter updates, process data, download of files & fault records etc.)

Backup protection for transformers

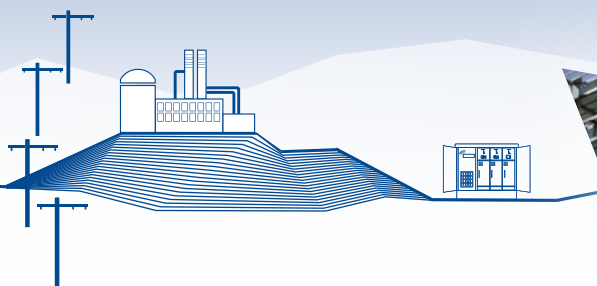
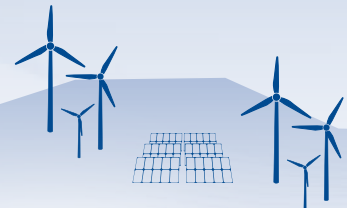
- Overcurrent protection
- Overexcitation protection (U/f)
- In the OBS (SPRECON-E-P DS6-2) there is also an AVR function available (protection and control of transformers).

Protection of decentralised feeders (DER)

- Decoupling protection QU<
- Voltage protection
- Frequency protection



Overcurrent Protection
SPRECON-E-P DS6



INTEGRATED BACKUP

If a device needs to be replaced, you can do it quickly and without additional tools. Remove the integrated SD memory card, insert it into the new device, done! Operating system, firmware, parameter set – everything is copied automatically. The protection is restored without losing any data.

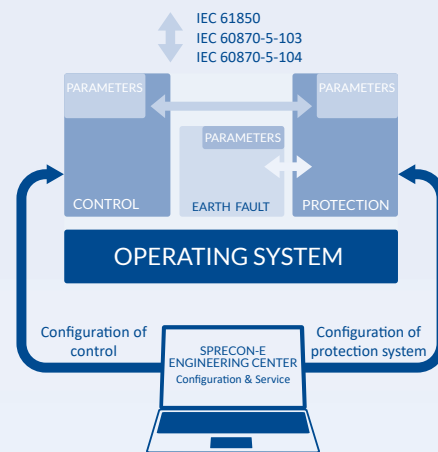


ALWAYS THE RIGHT HOUSING

Three different housing sizes with many different digital and analogue I/O cards and redundant power supply offer the best device for every application.

SEPARATE PROTECTION & CONTROL TECHNOLOGY

The protection process in our protection devices always runs independently of the control process. This ensures the required reaction time under all conditions. If you change the control process settings, it doesn't affect the protection process and you don't have to change your tested protection settings.



Motor protection

- Starting & locked rotor protection
- Underload protection
- Thermal overload protection
- Negative sequence protection
- Undervoltage protection

Main protection of distribution grid transformers (incl. inrush detection)

Capacitor bank

- Single-phase current unbalance protection for capacitors

Compact Overcurrent Protection SPRECON-E-P DS6



TECHNICAL DATA

Of course we have a great deal of information about SPRECON-E-P DS..6 devices – so much that we cannot list it all in detail here:

- the implemented protective functions,
- the dimensions of the different housings,
- the number of possible inputs and outputs,
- available communication options,
- and much more.



On our website at www.sprecher-automation.com/overcurrentprotection we have listed all technical data. The QR code will take you there directly.



WE ARE THE EXPERTS. FULL STOP.

Did you know that we have our own Competence Center Protection at Sprecher Automation? With their many years of experience from many different projects, our experts are ready to provide you with active and rapid support – with advice and problem-solving, by telephone, by e-mail or even on-site at your facility.

GIVE US A CALL OR SEND US AN E-MAIL!

Together we will find exactly the solution
that best suits your requirements.

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