

SDR distribution recloser



- Ratings through 38 kV
- Factory engineered, pre-installed and wired accessories available for ease of on-site installation
- Advanced vacuum interruption technology
- Fully integrated current transformers (CTs) and resistive voltage sensors
- Self-monitoring
- Dual-coil, low-energy magnetic actuator
- Advanced Siemens controller
- Fully withdrawable controller
- Customizable and intuitive Human Machine Interface (HMI) with programmable buttons, indicators and logic
- USB communications port
- Extended warranty available

12 kV, 15.5 kV, 27 kV and 38 kV

Answers for energy.

SIEMENS

SDR distribution recloser

Siemens has more than 30 years of experience in vacuum switching technology and is a leader in the field of digital protection technology. The SDR recloser combines cutting-edge technology with quality engineering experience in relay protection schemes for which Siemens is known.

The Siemens 7SR controller constitutes the brains of the recloser. It comprises indicators and control elements, communication interfaces and a USB port for convenient connection of a laptop computer. Access to the user level menus and data is protected by multilevel password authentication. Along with overcurrent time protection (49 preset curves and multiple user configurable curves), it is equipped for earth fault and sensitive earth fault detection. Inrush restraint and load shedding are further protection functions that help prevent nuisance outages.

The Siemens 7SR controller offers a multitude of inputs and outputs for customer use. Additional communication modules for data transfer are available as options. Self-monitoring and measuring functions round out the profile. The Siemens 7SR controller is mounted in a cabinet, which also contains the auxiliary power supply and a battery-backed UPS unit, fuses and a general purpose outlet to power a laptop.

Siemens SDR distribution reclosers offer dependable protection for temporary faults in overhead line networks and improve the reliability of power supply systems. The Siemens 7SR controller, the core of the system, provides a high level of protection, easy operation and high operating efficiency.

Figure 1: Technical data and ratings

Rated continuous current	400 A; 630 A; 800 A
Rated voltage according to ANSI C37.60	12 kV; 15.5 kV; 27 kV; 38 kV
Recloser sequence	O - T - CO - T - CO - T - CO - lockout T individually settable 0.2-14000s
Opening time	30 ms
Closing time	60 ms
Number of switching cycles	10,000
Number of short circuit operations	Up to 200; 166 according to ANSI C37.60 duty cycle
Number of phases	Three-phase, single-phase, triple-single

Rated voltage (kV)	Interrupting current (kA) (sym)	Lightning impulse withstand voltage (kV)	Continuous current		
			400 A	630 A	800 A
12	12.5	95	----	■	■
15.5	12.5	110	■	■	■
15.5	16	110	----	■	■
27	12.5	125	■	■	■
27	12.5	150	■	■	■
27	16	150	----	■	■
38	12.5	170	----	■	■
38	16	170	----	■	■

For more information, please contact your local Siemens representative.

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The information in this document contains general descriptions of the technical options available, which may not apply in all cases. The required technical options should therefore be specified in the contract.

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