

Type SDR distribution recloser

15.5 kV, 27 kV and 38 kV

Features and benefits:

- 15.5 kV, 27 kV, and 38 kV ratings
- Factory engineered, pre-installed and wired accessories available for ease of on-site installation
- Advanced vacuum interruption technology
- Fully integrated current transformers (CTs) and optional resistive voltage sensors
- Self-monitoring
- Dual-coil, low-energy magnetic actuator
- USB communications port
- Extended warranty available
- Single-phase and triple-single reclosers available
- Triple-single phase operation modes:
 - Three-phase trip/three-phase lockout
 - One-phase trip/three-phase lockout
 - One-phase trip/one-phase lockout
- Advanced Siemens controller
- Fully withdrawable controller
- Customizable and intuitive Human Machine Interface (HMI) with programmable buttons, indicators and logic.



Three-phase recloser



Triple-single recloser



Single-phase recloser



Controller

Technical data and ratings	
Rated continuous current	630 A; 800 A
Rated voltage according to ANSI/IEEE C37.60	15.5 kV; 27 kV; 38 kV
Recloser sequence	O - T - CO - T - CO - T - CO - lockout T (dead time) individually settable as shown in the table below
Opening time	30 ms
Closing time	60 ms
Number of switching cycles	30,000
Number of short-circuit operations	Up to 200; 116 according to ANSI/IEEE 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	
			630 A	800 A
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	●	●

Dead time	Unit	Time range			
Rated maximum voltage U_r	kV	15.5	27.0	27.0	38.0
Rated lightning impulse-withstand voltage U_p	kV	110	125	150	170
Dead time after first open	s	0.2 to 14,400	0.2 to 14,400	0.2 to 14,400	0.2 to 14,400
Dead time after second and third open	s	2 to 14,400	2 to 14,400	3 to 14,400	3 to 14,400
Dead time after fourth open	s	30 to 14,400	30 to 14,400	30 to 14,400	30 to 14,400

Type 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 type SDR recloser combines cutting-edge technology with quality engineering experience in relay protection schemes for which Siemens is known.

The Siemens type SDR 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 multi-level password authentication. Along with overcurrent time protection (49 preset curves and multiple user-configurable curves), it is equipped for ground (earth) fault and sensitive ground (earth) fault detection. Inrush restraint and load shedding are further protection functions that help prevent nuisance outages.

The Siemens type SDR 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 type SDR controller is mounted in a cabinet that also contains the auxiliary power supply, a battery-backed UPS unit, control, and a general purpose outlet to power a laptop.

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

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