

# ABB three-phase vacuum reclosers

## Robust, reliable, flexible

ABB reclosers have over 15 years of proven field performance incorporating innovative technology and unique ABB know-how. Now featuring multiple controller options to continually meet and exceed the growing demands of power distribution.

### Industry leading performance

- High voltage unit passed the most rigorous environmental testing at KIPTS (Koeberg Insulator Pollution Test Station) with no signs of material erosion, tracking, cracks, or punctures of any insulation
- Highest creep distance among the recloser poles on the market ensures long-term performance in any environment
- HCEP (Hydrophobic Cycloaliphatic Epoxy) material of the poles provides the best insulation for outdoor use, shedding water and debris, thus reducing the probability of flashovers even in heavily polluted areas
- Peak switching performance with ABB's industry leading vacuum interrupters
- Embedded sensors with highest accuracy and stability with respect to environmental changes
- Increased life expectancy with the stainless steel enclosures

### Reduced maintenance costs and downtime

- Simpler, faster and safer maintenance as all the electronics are in the low voltage unit, eliminating the need for a bucket truck to isolate potentials to service electronics
- Modular design allows for poles to be replaced quickly on-



site without the need to return the high voltage unit to the factory for repair

### Easy integration

- Multiple controller options, including the PCD, RER620 and SEL-651R, to accommodate any grid modernization application
- Site-ready units are available, minimizing any work to prepare the unit for installation
- Full portfolio and numerous mounting options are available for added flexibility
- Available as a package with ABB's world class voltage sensors, PTs and surge arrestors

CEP



HCEP



RER620



PCD



SEL-651R (only available for 15 and 27 kV)



### Technical data

Nom operating voltage	2.4-14.4	24.9	34.5	kV
Rated max voltage	15.5	27	38	kV
Rated power frequency	50/60	50/60	50/60	kV
Rated continuous current	800/1000/1250	800/1000/1250	800/1000/1250	A
Rated symmetrical interrupting current	12.5/16	12.5/16	12.5/16	kA
Rated lightning impulse withstand (BIL)	110/125	125/150	150/170	kV
Dry withstand 60 Hz 1 min	50	60	70	kV
Wet withstand 60 Hz 10 sec	45	50	60	kV
Phase spacing	15.5 (394)	15.5 (394)	15.5 (394)	inches (mm)
External creep distance H2-ground	38.0 (960)	38.0 (960)	50.7 (1288)	inches (mm)
External creep distance H1-H2	45.0 (1160)	45.0 (1160)	49.80 (1260)	inches (mm)
Min external strike distance	9.5 (240)	9.5 (240)	14.4 (367)	inches (mm)
Min interrupting time	0.050	0.050	0.050	sec max
Max closing time	0.055	0.055	0.055	sec max
High voltage unit weight	333 (150)	333 (150)	430 (195)	lbs (kg)
Small control cabinet weight	138 (63)	138 (63)	138 (63)	lbs (kg)
Large control cabinet weight	182 (83)	182 (83)	182 (83)	lbs (kg)

Rated standard operating duty: O O.2s CO 2s CO 5s CO lockout

Operating temperature: -40°C to +60°C (-40°F to +140°F)

Control voltage

- 120 VAC UPS: 90-140 VAC/109-144 VDC

- 240 VAC UPS: 180-285 VAC/220-285 VDC

Battery: 48 VDC, 12 AH battery bank. Capable of up to 38 hours of carry-over and multiple operations under loss of power



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