DISTRIBUTION SOLUTIONS

ANSI/IEC three-phase GridShield® recloser
Ready today for the grid of tomorrow

The ABB GridShield® recloser offers a maintenance-free design and unparalleled reliability for use in smart grid initiatives, even in the harshest of outdoor environments.

Key product features
- Embedded pole with vacuum interrupter mean time to failure of more than 10,000 years
- Voltage and current ± 1% measurement accuracy
- Single and three-phase tripping capability in every unit
- Modular pole assembly
- Compatible with multiple recloser controllers: ABB RER620, Beckwith M-7679, and SEL-651R
- ABB low voltage cabinet with actuator control module supports relay interchangeability/upgrades
- Site-ready units available for simple installation

Unparalleled reliability
- Sensors maintain accuracy and stability throughout environmental and humidity fluctuations
- Highest creep distance in the industry among recloser poles for long-term performance in any environment
- Peak switching performance with ABB’s industry-leading vacuum interrupters and magnetic actuator
- High voltage unit passed the most rigorous environmental testing at KIPTS with no signs of material erosion, tracking, cracks, or punctures of insulation

Reduced maintenance
- Maintenance-free high voltage compartment (interrupting unit) contains no consumable components, eliminating the need for a bucket truck to isolate potentials to service electronics
- HCEP (hydrophobic cycloaliphatic epoxy) material provides the best insulation for outdoor use, shedding water and debris, and reduces the probability of flashover, even in heavily polluted areas

Easy integration
- Multiple controller options to accommodate any grid modernization application
- Streamlined components and design for simplified and safer interaction with the unit
- Full portfolio includes single tank (with 3 poles) and individual tanks per phase; available mounted on a variety of frame options for added flexibility
- Site-ready units with voltage sensors, voltage transformers, surge arresters, and animal guards are available, minimizing work to prepare the unit for installation
Solutions

- **FDIR**
  - Single and three-phase tripping capability in every unit
  - Future-proof, flexible installation supports the reliability needs of today and tomorrow
  - Simple integration with a variety of controllers

- **Volt/VAR**
  - High accuracy sensors support an accuracy of ±1% over a wide temperature range
  - Sensors do not drift with humidity and provide accurate data for Volt/VAR applications, with no additional external equipment required

- **Substation installations**
  - High interrupting current of 16 kA and a superior BIL rating of 170 kV BIL for the 38 kV unit

### Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>15.5</th>
<th>27</th>
<th>38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated max voltage (kV)</td>
<td>15.5</td>
<td>27</td>
<td>38</td>
</tr>
<tr>
<td>Rated continuous current (A)</td>
<td>1000</td>
<td>1000</td>
<td>1200</td>
</tr>
<tr>
<td>Rated symmetrical interrupting current (kA)</td>
<td>12.5</td>
<td>12.5</td>
<td>16</td>
</tr>
<tr>
<td>Rated lightning impulse withstand (BIL) (kV)</td>
<td>150</td>
<td>150</td>
<td>170</td>
</tr>
<tr>
<td>Current measurement accuracy (%)</td>
<td>± 1</td>
<td>± 1</td>
<td>± 1</td>
</tr>
<tr>
<td>External creep distance H2-ground (in. (mm))</td>
<td>38.0 (960)</td>
<td>38.0 (960)</td>
<td>50.7 (1288)</td>
</tr>
<tr>
<td>External creep distance H1-H2 (in. (mm))</td>
<td>45.0 (1160)</td>
<td>45.0 (1160)</td>
<td>49.80 (1260)</td>
</tr>
<tr>
<td>High voltage unit weight (lbs (kg))</td>
<td>333 (150)</td>
<td>333 (150)</td>
<td>430 (195)</td>
</tr>
</tbody>
</table>

### Controller pin compatibility

- **ABB RER620**
- **Beckwith M-7679 (with ABB actuator control module)**
- **SEL-651R**

- 24 pin compatible
- 32 pin compatible
- 42 pin compatible

Complete the recloser installation with world-class ABB switches and instrument transformers!

- By-pass switch (RBD)
- Loadbreak insulator switch (LSID)
- Disconnect switch (DCD)
- 27 kV voltage transformer with ResiVolt™ technology (VOG-15R)