Switch Reactors with confidence and certainty.

Switching reactors can impose a severe duty on the connected system, switching device, and shunt reactor. Due to the relatively small inductive current, the interrupting device attempts to clear at a forced current zero causing current chopping. If the interrupter’s contacts have not separated enough to sustain the system voltage, a re-ignition of the arc will occur. These high magnitude and high frequency re-ignitions can shorten the life of the reactor and the switching device. The Southern States’ RLSwitcher®, was tested per IEEE and IEC standards for shunt reactor switching duty.

**BENEFITS**

- Interrupter design minimizes probability and magnitude of re-ignitions
- Reduced Turn-to-Turn voltage stress on reactor windings
- Simplified design improves reliability
- Local and remote gas monitoring system
- Compact design can fit in tight spaces

**SPECIFICATIONS**

- **Maximum Voltage Ratings**
  38 kV – 72.5 kV

- **Reactor Switching Current Rating**
  38 kV – 1600 A • 72.5 kV – 539 A

- **Maximum Shunt Reactor Rating**
  38 kV – 105 Mvar • 72.5 kV – 67 Mvar

- **Primary Fault Interrupting Ratings**
  38 kV – 25 kA • 72.5 kV – 40 kA

- **Fault Close Rating**
  25 kA and 40 kA
**RLSwitcher®**

Reactor Switching Device

38 kV – 72.5 kV

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**REACTOR SWITCHING RATINGS**

<table>
<thead>
<tr>
<th>Maximum Voltage Rating (kV)</th>
<th>Reactor Switching Current (A)</th>
<th>Shunt Reactor Rating (Mvar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>1600</td>
<td>105</td>
</tr>
<tr>
<td>72.5</td>
<td>539</td>
<td>67</td>
</tr>
</tbody>
</table>

**ADDITIONAL RATINGS**

<table>
<thead>
<tr>
<th>Maximum Voltage Rating</th>
<th>38 kV</th>
<th>72.5 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Current Rating</td>
<td>1600 A</td>
<td>1200 A</td>
</tr>
<tr>
<td>Power Frequency</td>
<td>50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Lightning Impulse Withstand</td>
<td>200 kV</td>
<td>350 kV</td>
</tr>
<tr>
<td>Short Circuit Breaking Current</td>
<td>25 kA</td>
<td>40 kA</td>
</tr>
<tr>
<td>Interrupting Time</td>
<td>5 cycles</td>
<td>3 cycles</td>
</tr>
<tr>
<td>Short-Time Withstand</td>
<td>25 kA (3 sec)</td>
<td>40 kA (3 sec)</td>
</tr>
<tr>
<td>Short-Circuit Making</td>
<td>25 kA</td>
<td></td>
</tr>
<tr>
<td>Peak Withstand</td>
<td>62.5 kA</td>
<td>104 kA</td>
</tr>
<tr>
<td>Insulator Design</td>
<td>Porcelain</td>
<td></td>
</tr>
<tr>
<td>Ambient Temperature Range</td>
<td>-40° C to +50° C</td>
<td>-30° C to +50° C</td>
</tr>
</tbody>
</table>

**KEY ADVANTAGES**

- Tested to IEEE and IEC standards for shunt reactor current switching (IEEE C37.015, IEC 62271-110)
- Makes and breaks circuit in SF₆
- Single mechanism spring-open, spring-close provides reliable long-life performance
- Ships fully assembled to minimize installation time
- Local visual indication of gas pressure provided by color coded temperature compensated gas gauge
- Common gas system with gas density switch with low pressure alarm and low pressure lockout for remote status monitoring

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