



RLSwitcher[®]

Tertiary Reactor Switching Device
15.5 kV – 38 kV

Switch Tertiary Shunt Reactors with confidence and certainty.

Switching shunt reactors located on the transformer tertiary 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***[®], with its patented interrupter design, minimizes the probability and magnitude of these harmful re-ignitions.

BENEFITS

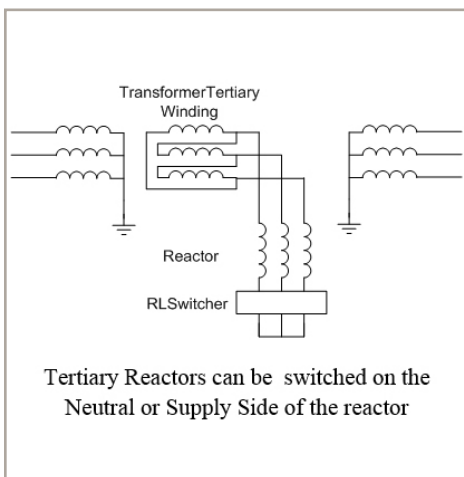
- Patented Interrupter minimizes probability and magnitude of re-ignitions
- Reduced Turn-to-Turn voltage stress on reactor windings
- Simplified design improves reliability
- Local and remote gas monitoring system
- Compact design can fit in tight spaces
- High creep composite insulators

SPECIFICATIONS

- Maximum Voltage Ratings
15.5 kV – 38 kV
- Reactor Switching Current Rating
15 kV – 3000 A • 38 kV – 1600 A
- Short Time Withstand Current
40 kA / 2 sec
- Peak Withstand Current
108 kA
- Short Circuit Making Current
40 kA rms sym

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REACTOR SWITCHING RATINGS

Maximum Voltage Rating (kV)	Minimum Reactor Switching Current (A)	Maximum Reactor Switching Current (A)
15.5	500	2000
	500	3000
38	500	1600

ADDITIONAL RATINGS

Maximum Voltage Rating (kV)	15.5		38
Continuous Current Rating (A)	2000	3000 *	1600
Power Frequency (Hz)	50/60		
Lightning Impulse Withstand (kV)	200		
Short-time Withstand Current (kA/sec)	40 / 2		
Peak Withstand Current (kA)	108		
Short Circuit Making Current (kA rms / kA peak)	40 / 108		
Creepage Distance (mm)	1842		
Ambient Temperature Operating Range (°C)*	- 40 to + 50		

* At ambient temperatures greater than +40°C, the 15 kV / 3000 A design has a maximum continuous current rating of 2700 A.

* Air core reactors may require additional capacitance. Contact the factory for application specific solutions.

KEY ADVANTAGES

- Very low probability of re-ignitions
- Probability of re-ignitions is 10X less than with conventional interrupters
- 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
- Suitable for use where pollution level requirement is “very heavy”