

## > Capacitor Switching > CAPSWITCHER

### CATALOG FLYER



# **CapSwitcher**<sup>®</sup>

Capacitor Switching Device 245 kV / 362 kV

# Purpose specific device provides reliable, long-life performance.

The need for quality power has never been greater. This has led to an increase in the use of capacitor banks to improve power factor. The Southern States **CapSwitcher**<sup>®</sup> high voltage capacitor switching device has been specifically developed to provide restrike free switching of capacitor banks. This reliable, long-life, special purpose SF<sub>6</sub> capacitor switch utilizes closing resistors for mitigating voltage transients and current inrush.

# FEATURES

- Closing resistors minimize voltage and current transients
- · Simple, cost effective, mechanical design that provides repeatability
- Long Life (10,000 operations)
- · Eliminates need for inrush reactors
- Class C2 per IEEE and IEC Standards "very low probability of restrike"

# SPECIFICATIONS

Maximum Voltage Ratings 245 kV / 362 kV

Capacitive Current Switch Rating 810 A

**Primary Interrupting Ratings** No fault interrupting rating

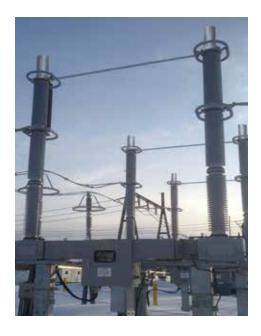
Short Time Withstand Ratings 40 kA RMS Sym (1 sec) 63 kA RMS Sym (18 cycles)

Application Single Bank or Back-to-Back Grounded

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RATINGS	
Maximum Voltage Rating (kV)	245kV / 362 kV
Rated Power Frequency Withstand Voltage	555 kV
Rated Lightning Impulse Withstand Voltage (BIL)	1300 kV
Rated Chopped Wave Voltage (Optional)	1680 kV
Rated Power Frequency	50/60 Hz
Rated Continuous Current	810 A
Rated Short-Time Withstand Current	40 kA RMS 1 sec (63 kA 18 cy)
Rated Peak Withstand Current	40 kA rms - 104 kA peak
Rated Interrupting Time	3 cycles
Rated Duty Cycle	0 - CO
CAPACITOR SWITCHING RATINGS	
Shunt Capacitor Bank Switching Current	810 A
Back to Back Capacitor Bank Breaking Current	810 A
Peak Capacitive Inrush Current	4250 Hz 25 kA
Resistor Value	Matched bank for optimum performance *
Environmental Ratings	Standard -30° C to +50° C
Gas Fill Pressure	96 psig NOM / 76 psig MIN
* See Application Guide *	

#### See Application Guide \*

Above service ratings are for the following service conditions:

- The maximum altitude is (3280 ft) 1000 m
- The maximum wind velocity should not exceed 90mph (40 m/s)
- The seismic performance is Low Performance Level as defined in IEEE 693

Higher service conditions are available and will be stated in other documents associated with the specific switcher purchase.

# **KEY ADVANTAGES**

- Makes and breaks circuit in SF<sub>6</sub>
- Designed and tested for restrike-free performance
- Closing resistors provide reliable and consistently repeatable transient suppression
- Multiple resistor sizes allow performance optimization
- Closing resistor eliminates need for inrush reactors

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- Common gas system with pressure gauge, density switch, low pressure alarm and trip on low gas pressure contacts provides both local visual and remote status indication
- Simple, easy erection minimizes field installation time
- Straight forward mechanical design insures long life, repeatable operation
- Independent pole operation with master control enclosure

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