



CapSwitcher[®]

Capacitor
Switching Device
15 kV – 38 kV
Type 38M

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[®]** high voltage capacitor switching device has been specifically developed to provide restrike free switching of capacitor banks. This reliable, long-life, special purpose SF₆ capacitor switch utilizes closing resistors for mitigating voltage transients and current inrush.

FEATURES

- Closing resistors minimize voltage and current transients
- Design virtually eliminates restrikes
- Simple, cost effective, mechanical design that provides repeatability
- Long Life (10,000 operations)
- Eliminates need for inrush reactors
- Gas pressure sensing on each phase with lockout and alarm on low gas

SPECIFICATIONS

Maximum Voltage Ratings

15.5 kV – 38 kV

Capacitive Current Switch Rating

600 A

Short Time Withstand Ratings

40 kA RMS Sym (2 sec)

Peak capacitive Inrush Current

23 kA @ 5400 Hz

Application

- Single Bank or Back-to-Back
- Grounded or Ungrounded

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RATINGS

Maximum Voltage Rating (kV)	15.5	27	38
BIL (kV)	110	150	200
Rated Power Frequency	50/60 Hz		
Continuous Current	600 A		
Capacitive Switching Current	600 A		
Short-Time Symmetrical Withstand	40 kA RMS		
Rated High-Frequency Transient-Making Current	42 kA peak at 8100 Hz		
Endurance Life	10,000 operations		
Ambient Temperature Rating	-35° C to +50° C (standard) -50 ° C to +50° C (optional)		

Capacitor Switching Ratings (IEEE C37.09a-2005)

Maximum Voltage Rating (kV)	15.5	27	38
Capacitive Switching Current	600 A		
High Frequency Transient Making Current	23 kA peak at 5400 Hz		
Closing Resistor Value	Matched to bank size for optimum performance*		

* See application Guide Document

KEY ADVANTAGES

- Makes and breaks circuit in SF₆
- 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
- Sensor on each interrupter provides auto-trip or lockout on low gas pressure
- Optional gauge with density switch on each interrupter
- Separate control cabinet with enhanced features is included in the standard offering
- Designed to mount on new or existing capacitor bank racks
- Straight forward mechanical design insures long life, repeatable operation
- Ships assembled and pressurized minimizing installation and setup

Rated Duty Cycle:

- Fast Close (includes Close Coil): C – 6 cycle – O – 8 sec

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