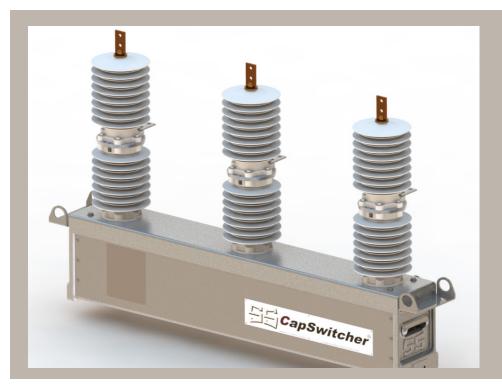


CATALOG FLYER



CapSwitcher®

Capacitor
Switching Device
27 kV
Type 27M

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
- C2 Rating with No Restrikes
- E2 Electrical Endurance Rating
- M2 (10,000 CO operations) Mechanical Endurance Rating
- · Eliminates need for inrush reactors
- Simple, cost effective, mechanical design that provides repeatability
- · Gas pressure sensing on each phase with lockout on low gas
- Integral Capacitor Bank Controller with DNP3 communication

Maximum Voltage Ratings

Capacitive Current Switch Rating 400 A

Short Time Withstand Ratings 25 kA RMS Sym (1 sec)

Peak capacitive Inrush Current 25 kA @ 4400 Hz

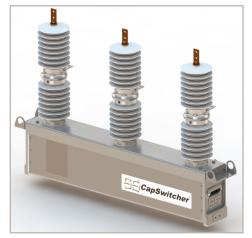
Application

Single Bank or Back-to-Back Grounded or Ungrounded



| RATINGS | | |
|---|-----------------------------|--|
| Maximum Voltage Rating (kV) | 27* | |
| BIL (kV) | 150 | |
| Rated Power Frequency (Hz) | 50/60 | |
| Continuous Current (A) | 400 | |
| Capacitive Switching Current (A) | 400 | |
| Short-Time Symmetrical Withstand (kA/sec) | 25/1 | |
| Peak Withstand (kA) | 69 | |
| Short Circuit Making (kA) | 25 | |
| Endurance Life (CO operating) | 10,000 (M2) | |
| Ambient Temperature Rating | -35° C to +50° C (standard) | |

Can be safely applied to 29.2 kV



| Capacitor Switching Ratings (IEEE C37.09a-2005) | | | |
|---|---|----|--|
| Maximum Voltage Rating (kV) | 15.5 | 27 | |
| Capacitive Switching Current | 400 A | | |
| High Frequency Transient Making Current | 25 kA peak at 4400 Hz | | |
| Closing Resistor Value | Matched to bank size for optimum performance* | | |

^{*} See Application Guide Document

CapSwitcher® Controller

with DNP3 communication

CapSwitcher Controller CSC-211 (standard on most models).

- 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
- Separate control cabinet provides ground level access to control components
- Optional Capacitor Bank Control (VAR, Voltage, Current, TOD, Temp, SCADA)
- · 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:

• 15 sec - CO – 5 minute time delay (adjustable) 30 Georgia Avenue Hampton, GA 30228 P 770-946-4562 F 770-946-8106

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