CapSwitcher®
Capacitor Switching Device
38 kV – 170 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® 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
• Interrupting rating allows use as protective device

SPECIFICATIONS

Maximum Voltage Ratings
38 kV – 170 kV

Capacitive Current Switch Rating
600 A (38 kV to 72.5 kV)
650 A (123 kV to 170 kV)

Primary Interrupting Ratings
25 kA RMS Sym (38 kV to 72.5 kV)
40 kA RMS Sym (123 kV to 170 kV)

Short Time Withstand Ratings
50 kA RMS Sym (1 sec)
(38 kV to 72.5 kV)
63 kA RMS Sym (18 cycles)
(123 kV to 170 kV)

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

**Rated Duty Cycle:**
CO – 5 min – CO – 5 min – CO
Note: The 5 minutes is to allow the substation capacitor bank to discharge
The actual spring charge time is 15 seconds