

CapSwitcher®

Capacitor Switching Device

Powered by MEPPi

245 kV

Capacitor Switching Device Now Available With MEPPi Mechanism

The 245kV CapSwitcher®, a device designed specifically for re-strike free switching of capacitor banks, is the latest innovation from Southern States, now featuring a MEPPi (Mitsubishi Electric Power Products, Inc.) BM-2 mechanism, primary fault interrupting capability up to 40 kA, as well as weather hardening improvements. This reliable, long-life, special purpose SF₆ capacitor switch utilizes closing resistors for mitigating voltage transients and current inrush.

FEATURES

- MEPPi BM-2 mechanism
- Zero maintenance spring/spring motor charged system
- Local and remote gas monitoring system
- SF₆ puffer interrupter
- Gas sealing system designed to minimize potential leak points
- Robust contact structure designed for current switching operations
- Composite insulators requiring minimum maintenance and improves safety

SPECIFICATIONS

Maximum Voltage Ratings
245 kV

Capacitive Current Rating
810 A

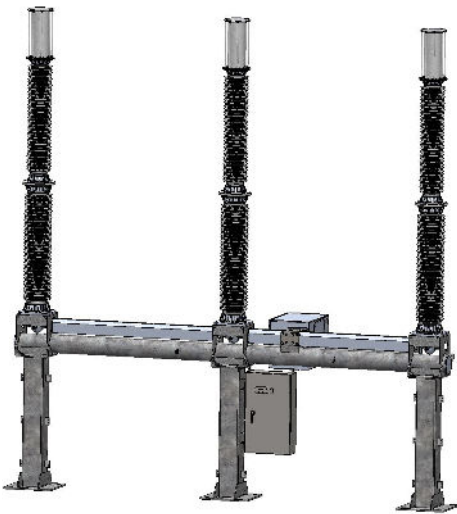
Rated Fault Breaking Current
40 kA

Withstand Current Rating
Short-Time: 63 kA RMS Sym (1 sec)
Peak: 164 kA

Application
Single Bank or Back-to-Back
Grounded

CapSwitcher[®]

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RATINGS

Maximum Voltage Rating (kV)	245 kV
Rated Power Frequency Withstand Voltage	425 kV
Rated Lightning Impulse Withstand Voltage (BIL)	900 kV
Rated Power Frequency	60 Hz
Rated Continuous Current	810 A
Rated Short-Time Withstand Current	63 kA RMS 1 sec
Rated Peak Withstand Current	164 kA peak
Short Circuit Making Current	63 kA
Rated Fault Breaking Current	40 kA
Rated Interrupting Time	3 cycles
Rated Duty Cycle	O - 5 min - CO - 5 min - CO

CAPACITOR SWITCHING RATINGS

Shunt Capacitor Bank Switching Current	810 A
Back-to-Back Capacitor Bank Breaking Current	810 A
Peak Capacitive Inrush Current	20 kA at 3850 Hz
Resistor Value	Matched bank for optimum performance *
Environmental Ratings	Standard -35° C to +50° C
Insulator Design	Composite

* 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 High Performance Level as defined in IEEE 693-2018

Note: 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 SF₆
- Ships with minimal gas pressure for safety during transportation and for handling during installation
- Each interrupter has its own gauge, minimizing gas plumbing and potential leak paths
- Straight forward mechanical design insures maintenance free 5,000 operations with 30-year product life expectancy
- Simple, easy erection minimizes installation time
- High performance level seismic rating per IEEE 693-2018