

CapSwitcher® 36 - 170 kV Capacitor switching device



HV Switching

The only high voltage device dedicated to capacitor bank switching

- Up to 650 A continuous and capacitive switching current
- Up to 31.5 kA primary fault interrupting current
- Available with closing resistor for transient suppression

A revolutionary solution for a changing industry

In today's world of sensitive electronic devices the need for quality power has never been greater. The CapSwitcher® high voltage capacitor switching device has been specifically developed to meet this need. This special purpose SF₆ capacitor switch is available for application on :

- Single banks
- Back-to-back banks
- Grounded or ungrounded

The CapSwitcher® outstanding advantage is to propose an optional closing resistor that provides a reliable and consistently repeatable transient suppression

Key features and advantages

- Circuit making occurs in SF₆ gas, rather than in air, meaning few contact erosion, no ice-sensitivity
- Compactness and simple, easy erection minimizes field required space and installation time : single column design up to 72.5 kV, two-column design up to 170 kV
- Single mechanism spring operator provides reliable long-life performance
- Puffer interrupters provide long contact life and multi-time fault closing capability
- Common gas system with pressure gauge, density switch, low pressure alarm and trip on low pressure contacts provides both local visual and remote status indication
- 5-year warranty promises trouble-free operation

Optional features

- -50° C / +50° C capability
- Dual trip coils
- Trip circuit monitoring relay
- Loss of AC or DC relay
- Various LV protection schemes (fuses, molded case circuit breakers instead of MCB's...)
- Door actuated remote blocking switch
- ...

Technical data

600 A version

Rated voltage (kV)	36	52	72.5
BIL (kV)	200	250	350
Capacitive switching current (A)	600		
Maximum bank capacity (MVAR)	36	48	72
Closing resistor values (Ω)	17, 40 or 80		
Primary fault interrupting current (kA)	18 kA		
Interrupting time	5 cycles		
Number of full fault operations	20		
Fault closing rating	5 time 40 kA		
Endurance life	10 000 operations		
Ambient temperature range	-40° C to +50° C		

650 A version

Rated voltage (kV)	123	145	170
BIL (kV)	550	650	750
Capacitive switching current (A)	650		
Maximum bank capacity (MVAR)	130	155	181
Closing resistor values (Ω)	75 or 150		
Primary fault interrupting current (kA)	31.5		
Interrupting time	3 cycles		
Number of full fault operations	5 at 31.5 kA / 20 at 20 kA		
Fault closing rating	2 time 63 kA / 5 time 40 kA		
Endurance life	10 000 operations		
Ambient temperature range	-40° C to +50° C		



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