

CapSwitcher® 17.5-362 kV Capacitor switcher

HV Switching



The only high voltage device dedicated to capacitor bank switching

- Up to 810 A continuous and capacitive switching current
- Up to 40 kA short-circuit breaking capacity
- 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. It is available for application on:

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

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

Technical data

Rated voltage (kV)	17,5	24	36	36	52	72.5	123	145	170	245	362	
BIL (kV)	95	125	200	200	250	350	550	650	750	1050	1300	
Capacitive switching current (A)	600						650			810		
Maximum bank capacity (MVAR)	16	27	40	40	48	72	130	155	181	240		
Closing resistor values (Ω)	6, 10, 12, 20, 30 or 90			12, 20, 30, 40, 80 or 90			37.5, 75, 150 or 300			90, 200 or 500		
Rated short-circuit breaking capacity(kA)	-			25			40			-		
Interrupting time (cycles)	6			5			3					
Fault making rating	-			10 time 40 kA			2 time 63 kA / 10 time 40 kA					
Minimum mechanical and electrical endurance (operation)	10,000											
Ambient temperature range (°C)	-50°/+50°			-40°/+50°					-30°/+50°			

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 362 kV
- Single mechanism spring-open, spring-close up to 170 kV designs
- Independent pole with spring-open, spring-close mechanism for 245 and 362 kV
- 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
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