

CapSwitcher® 17.5-362 kV Capacitor switcher

HV Switching



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.

Ratings

Rated voltage	U_r (kV)	17.5	24	36	36	52	72.5	123	145	170	245	362
Rated lightning impulse withstand voltage to earth	U_p (kV _p)	95	125	200	200	250	350	550	650	750	1050	1300
Rated continuous current	I_r (A)	600		600		650		810				
Rated single capacitor bank breaking current	I_{4d} (A)	600		600		650		810				
Maximum bank capacity	(MVAR)	15	30	40	40	48	72	130	155	181	240	
Closing resistor values	(Ω)	6, 10, 12, 20, 24, 30, 45, 60 or 90			12, 20, 30, 40, 60, 80, or 90			37.5, 75, 150 or 300			90,200 or 500	
Rated short-circuit breaking current	I_{sc} (kA)	-		25		40		-				
Interrupting time	(cycles)	6		5		3						
Rated short-circuit making current	I_{ma} (kA _p)	-		10 time 40		twice 63 / 10 time 40						
Minimum mechanical and electrical endurance	(cycles)	10.000						5.000				
Ambient temperature range	($^{\circ}$ C)	up to -50/+50			up to -40/+50			up to -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 $^{\circ}$ C / +50 $^{\circ}$ 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
- ...

