

SFset



Electrical characteristics according to IEC 62271-100

Rated voltage		Ur	kV 50/60 Hz	12	17.5				24			
Insulation voltage												
- power frequency withstand	Ud	kV 50 Hz 1min		28	38				50			
- lightning impulse withstand	Up	kV peak		75	95				125			
Rated current	Ir	A	400	–	–	–	–	–	–	–	–	–
			630	■	■	■	■	■	■	■	■	■
			1250	–	–	–	–	–	–	–	–	–
Short circuit current	Isc	kA		25	12.5	20	25	12.5	16	20	25	
Short time withstand current	I _k /t _k	kA/3 s		25	12.5	20	25	12.5	16	20	25	
Short-circuit making current	I _p	kA peak	50 Hz	62.5	31.3	50	62.5	31.3	40	50	62.5	
			60 Hz	65	32.5	52	65	32.5	41.6	52	65	
Rated switching sequence	O-3 min-CO-3 min-CO			■	■				■			
	O-0.3 s-CO-3 min-CO			■	■				■			
	O-0.3 s-CO-15 s-CO			■	■				■			
Phase to phase		mm	220	–	■	■	■	–	–	–	–	
			250	■	■	■	■	■	■	■	■	
			280	–	–	–	–	■	■	■	■	
			350	–	–	–	–	–	–	–	–	
			380	–	–	–	–	–	–	–	–	
Operating mechanism	A1 lateral (*)			–	■	■	■	■	■	■	■	
	B1 lateral (*)			–	■	■	■	■	■	■	■	
	C1 frontal (*)			–	■	■	■	■	■	■	■	
	For SM6 switchgear			■	–	■	–	■	■	■	–	
Operating times	Opening (ms)			< 60								
	Breaking (ms)			< 75								
	Closing (ms)			< 100								
Service temperature	T	°C		- 5 to + 40 (**)								
Mechanical endurance	Class			M2								
	Number of switching operations			10,000								
Electrical endurance	Class			E2								
Capacitive current breaking capacity	Class			C2								

(*) See chapter "Dimensions"

(**) For a temperature lower than -5 °C, please consult us

■ Available
– Not available

Specific applications

Switching and protection of capacitor banks

SF range circuit breakers are particularly well suited to switching and protection of capacitor banks; they are classed C2 according to standard IEC 62271-100. Tests carried out according to the standard for breaking at 400 A with making and breaking cycles in case of a capacitor bank with a making current of 20 kA.