

1.3 General electrical characteristics

Switchboard		12 kV	17.5 kV	24 kV
Rated voltage	kV	12	17.5	24
Rated insulation voltage	kV	12	17.5	24
Rated power frequency withstand voltage	kV (1 min)	28 ⁽¹⁾	38	50
Rated lightning impulse withstand voltage	kV	75	95	125
Rated short-time withstand current	kA (3s)	31.5	31.5	31.5
Peak current	kA	80	80	80
Rated short-time withstand current	kA (1s)	50	50	–
Peak current	kA	125	125	–
Internal arc withstand current	kA (1s)	31.5-40	31.5-40	31.5
	kA (0.5s)	50	50	–
Branch connectors rated currents	A	630	630	630
		1250	1250	1250
		1600	1600	1600
		2000	2000	2000
		2500	2500	2500 ⁽²⁾
		3150	3150	
		3600 ⁽²⁾	3600 ⁽²⁾	
		4000 ⁽²⁾	4000 ⁽²⁾	
Main busbars rated currents	A	1250	1250	1250
		1600	1600	1600
		2000	2000	2000
		2500	2500	2500 ⁽²⁾
		3150	3150	
		3600 ⁽²⁾	3600 ⁽²⁾	
		4000 ⁽²⁾	4000 ⁽²⁾	

⁽¹⁾ Also available at 42 kV (1 min).

⁽²⁾ With forced ventilation in the circuit-breaker compartment: a further fan is required at the rear of the switchboard for 4000 A versions.

1.3.1 Earthing switch electrical characteristics

Earthing switch with making capacity		12 kV	17.5 kV	24 kV
Rated short-time withstand current	kA (3s)	31.5	31.5	31.5
	kA (1s)	40-50	40-50	–
Making capacity	kAp	80	80	80
		125	125	–



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