

RHD-420 SF6 Gas Dead tank Circuit Breaker

Compliant with IEC/CEI power equipment standards



420 kV, 3150~5000 A, 50/60Hz

Features self-blast arc extinction technology

Available in three-phase post porcelain insulator configurations

Fitted with pointer density relays to monitor gas pressure and density



Rated maximum voltage	420 kV
Rated maximum current	3150~5000 A
Rated frequency	50/60 Hz
Lightning impulse withstand voltage	1425/1560 kV
Rated short-circuit breaking current	50~63 kA
Rated peak withstand current	125~158 kA
Creepage distance	25~31 mm/kV
Partial discharge	≤ 10 pC
Opening time	≤ 30 ms
Alarm/blocking pressure	0.55/0.50 MPa
Gas moisture content	≤ 150 ppm(v)
Heater voltage	AC220 V
Voltage of energy-store motor	DC110/220 V
1min Power frequency withstand voltage	630/720 kV
First open pole factor	1.3
Rated short-circuit duration	3 s
Rated cable/line charging breaking current	400~500 A
Rated making current (peak)	125~158 kA
Operation sequence	O-0.3s-CO-180s-CO
Breaking time	≤ 60 ms
Closing time	≤ 100 ms
Rated SF ₆ gas pressure	0.6~0.7 MPa
SF ₆ annual gas leakage rate	≤ 0.5%
Mechanical life	10000 times
Voltage of control circuit	DC110/220 V
Applied standards	GB/T 1984 / IEC 62271-100

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