



# Circuit-Breaker VCB 72.5 kV

A compact, F-gas-free circuit-breaker engineered for extreme climates and sustainability compliance.

- Live Tank Circuit-Breaker
- Proven vacuum interrupter technology ensures reliable switching performance
- Insulation using eco-friendly clean air
- Meet the highest requirements for reliability and availability
- Designed for easy installation, servicing, maintenance and gas handling
- Extended service life and high electrical endurance
- Environmentally conscious design, minimizing use of greenhouse gases
- Compatible for Disconnecting Circuit-Breaker (DCB) application

## BENEFITS



### No Global Warming Potential emission during operating phase

F-gas free solution with dry air  
No CO<sub>2</sub> emission



### Minimal footprint

Highest compactness with a design optimized for 72.5 kV application



### High dielectric strength

Use only cost-effective and safe clean air at low filling (1 bar rel.), avoiding complex gas mixtures



### Designed for very low temperatures

Capable of operating in extremely low temperatures using clean air as the insulating medium

 **COELME**  
COSTRUZIONI ELETROMECCANICHE - SPA

 **egic**

### Contacts

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 **Southern States**  
Group Company



# Live Tank Circuit-Breaker 72.5 kV

Item	Technical parameters
Comply with international IEC standards (IEC 62271-100) and ANSI standards (IEEE C37.100.1; IEEE C37.09 and IEEE C37.016)	
Type	VCB 72.5-2500
Switching/insulating medium	vacuum/dry air
Rated voltage	72.5-84 kV
Rated frequency	50/60 Hz
Rated short-duration power-frequency withstand voltage (1 min)	140/160(DCB) kV
Rated lightning impulse withstand voltage (1.2/50 $\mu$ s)	325/350/375(DCB) kV
Rated chopped-wave impulse withstand voltage	452 kV (ANSI C37.016)
Rated continuous current	2750 A
Rated short-time withstand current /duration and peak	31.5 kA /3s, 80 kA <sub>p</sub>
Rated short-circuit breaking current	31.5 kA
DC time constant of the rated short-circuit breaking current	45 ms
Rated first pole-to-clear factor	1.5
Rated line-charging breaking current	125 A
Rated cable-charging breaking current	125 A
Capacitive voltage factor	1.4
Class	M2, C2, E2, S2
Temperature range	-50°C up to + 55°C
Filling pressure for insulation	1 bar rel.
	