

DISTRIBUTION SOLUTIONS

VD4G generator circuit breaker

Small footprint, full protection for generator applications

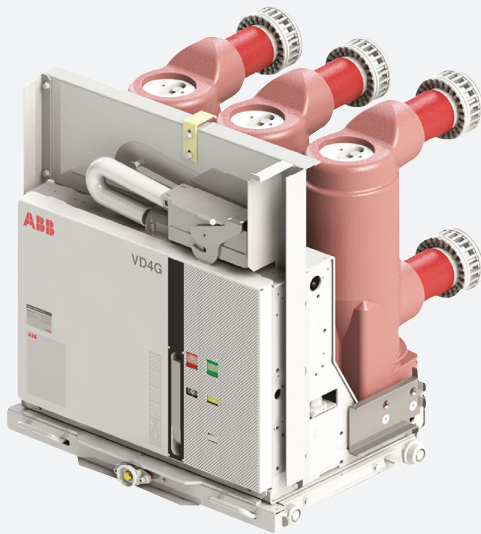


ABB offers its new vacuum generator circuit breakers at 15 kV, 4000A, 63 kA in accordance to the new dual logo IEEE/IEC 62271-37-013 to satisfy your business needs in power generation applications.



Protect your assets

- Use a solution completely in accordance with latest global standard - IEC as well as IEEE.
- Count on a generator circuit breaker suitable for all highly demanding conditions, including out-of-phase condition and island mode
- Be safe thanks to a completely tested solution for DC-component up to 130%, so no need to add any time delay in the protection



Maximize your output

- Experience the easy installation/ integration of VD4G, thanks to its equivalent interfaces and dimensions like VD4
- Accelerate your projects with outstanding technical support from our field application engineering team

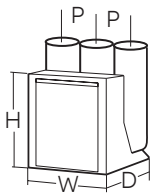


Optimize your investment

- Choose ratings that fit your needs from 25/16 kA @ 15 kV to 63/50 kA @ 15 kV
- Take advantage of using the same compact switchgear setup like in power distribution systems

Technical characteristics

Standards IEEE/IEC 62271-37- 013

Circuit breaker		VD4G-25		
Rated voltage	Ur [kV]	15		
Rated current (40° C)	Ir [A]	1250		
Rated frequency	fr [Hz]	50-60		
Rated insulation voltage	Us [kV]	15		
Withstand voltage at 50 Hz				
Rated value	Ud (1 min) [kV]	38(**)		
Impulse withstand voltage				
Rated value	Up [kV]	95		
Making current	Ip [kA]	68,5		
Rated breaking capacity (system-source)				
Symmetrical short-circuit current	IscSFF [kA]	25		
DC component of breaking capacity	%	75		
Asymmetrical short-circuit current (system-source)	IascSFF [kA]	36,5		
Rated breaking capacity (generator-source)				
Symmetrical short-circuit current Iscg Class G1 (generator-source)	IscGFF [kA]	16		
DC component of breaking capacity Class G1 (generator-source)	%	110		
Symmetrical short-circuit current Iscg Class G2 (generator-source)	IscGFF [kA]	16		
DC component of breaking capacity Class G2 (generator-source)	%	130		
Rated breaking current under out-of-phase conditions				
Symmetrical short-circuit current	IscOOP [kA]	12,5		
DC component of breaking current	%	75		
Rated operating sequence during short-circuit interruption			CO-10 min-CO	
Short-time withstand current (3s)	Ik [kA]	25		
Opening time	[ms]	33..60		
Closing time	[ms]	30..60		
Maximum overall dimensions		Pole center-distance	P [mm]	150
		Fixed	H [mm]	475
		Withdrawable	H [mm]	627
		Fixed	W [mm]	450
		Withdrawable	W [mm]	503
		Fixed	D [mm]	424
Withdrawable	D [mm]	662		
Weight	Fixed	[kg]	73	
	Withdrawable	[kg]	116	

(¹) 4000 A with forced ventilation

(**) Contact ABB for higher values

For more information please contact:



More product information:

abb.com/mediumvoltage

Your contact center:

abb.com/contactcenters

More service information:

abb.com/service

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