

DISTRIBUTION SOLUTIONS

## VD4G generator circuit breaker

Small footprint, full protection  
for generator applications

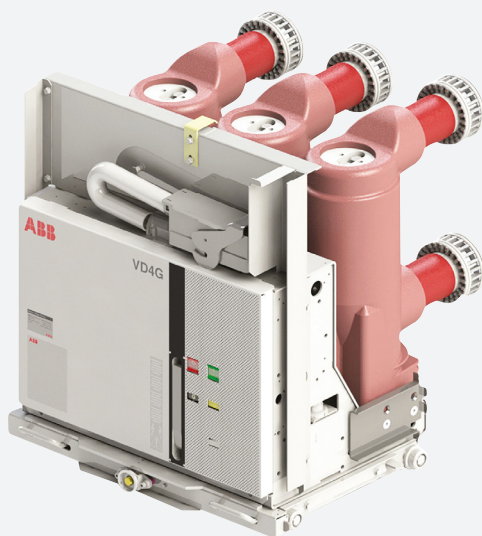


ABB offers its new vacuum generator circuit breakers at 15 kV, 4000 A, 63 kA in accordance to the new Dual Logo IEEE/IEC 62271-37-013 standard to satisfy your business needs in power generation applications.



### Protect your assets

- Use a solution completely in accordance with the latest global standards - 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 interfaces and dimensions equivalent to the standard version VD4
- Accelerate your projects with the outstanding technical support granted by our Field Application Engineering team



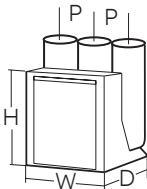
### Optimize your investment

- 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
		Withdrawable	[kg]	116

(\*) 4000 A with forced ventilation  
(\*\*) Contact ABB for higher values

VD4G-40				VD4G-50/25	VD4G-50		VD4G-63	
≤2000	2000	3150	4000 (¹)	≤2000	3150	4000 (¹)	3150	4000 (¹)
115				144	137		173	
40				50	50		63	
75				75	75		75	
58.5				73	73		92	
25				25	50		50	
110				110	110		110	
25				25	37		37	
130				130	130		130	
20				25	25		31.5	
75				75	75		75	
CO-10 min-CO				CO-30 min-CO				
40				50	50 (4s fixed version)		63 (1s)	
					28 ÷ 40			
					≤ 55			
210	275	275	275	210	275	275	275	275
610	610	636	636	610	636	636	636	636
698	698	743	743	698	735	735	736	736
608	758	758	758	608	750	750	750	750
653	853	853	853	653	851	851	750	750
456	456	456	456	456	459	459	459	459
643	643	643	643	643	650	650	646	646
146	158	177	177	147	210	210	210	210
190	205	221	221	191	270	270	270	270

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**More product information:**  
[abb.com/mediumvoltage](http://abb.com/mediumvoltage)  
**Your contact center:**  
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**More service information:**  
[abb.com/service](http://abb.com/service)

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