

VD4

IEEE medium voltage circuit breaker



ABB offers a new IEEE 15 kV class medium voltage vacuum circuit breaker with the EL mechanism, new recyclable embedded poles up to 15 kV, 40 kA, 2000 A with 10,000 M2 Class mechanical operations, and 1200 A C2 Class back-to-back capacitive switching and out-of-phase switching test compliance.



Help keep personnel safe

Enclosed mechanism housing and embedded pole technology help protect personnel and equipment



Maintenance free and environmentally friendly

Recyclable thermoplastic embedded pole design helps protect vacuum interrupters from contamination, moisture, and damage, and improves tracking resistance



Save floor space

Space saving compact widths of 24" for 1200 A and 30" for 2000 A drawout switchgear frame widths



Reduce maintenance costs

- Class M2, 10,000 mechanical operations
- Globally proven EL operating mechanism requires no adjustments or measurements
- Reduced vacuum interrupter wear design requires no visible or mechanical measurements
- Rotary-wiping AUX contacts



Protect assets

Type tested according to:

- IEEE C37.04
- IEEE C37.09
- UL: 1008A out-of-phase switching compliance in accordance with IEEE C37.09
- IEEE C37.20.2
- ANSI C37.54
- ANSI C37.55
- UL Certification

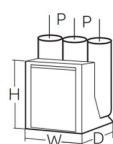


Optimize investment

- 75% lower power consumption accessories for reduced battery bank systems
- Automated production process for maximum quality and short lead times
- Over two million VD4 breakers installed globally

VD4 IEEC					
Maximum tested voltage, U _s	kV			15	
Rated frequency, fr	Hz			50/60	
Short-time withstand current, I _k	kA	31.5	31.5	40	40
Rated current, I _r	A	1200	2000	1200	2000
C2 Class back-to-back capacitive switching	A	-	-	1200	1200
90° out-of-phase making and breaking current, I _d	kA	-	-	10	10
Short circuit withstand duration	s	3	3	3	3
Close and latching capability		82	82	104	104
Interrupting time	ms			≤ 50	
Closing time	ms			30 - 60	
Lightning impulse withstand voltage	kV			95	
Power frequency withstand voltage, U _d	kV			36	
Phase distance	mm	150	210	210	210

Overall dimensions and weight of withdrawable version



Phase distance	mm/in	150/5.9	210/8.3	210/8.3	210/8.3
Height	mm/in	620/24.4	689/27.1	689/27.1	689/27.1
Width	mm/in	503/19.8	653/25.7	653/25.7	653/25.7
Depth	mm/in	661/26	638/25.1	638/25.1	638/25.1
Weight	kg/lb	116/256	75/165	75/165	160/353

Note: Available in withdrawable and fixed mount

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