


## VD4

### Medium voltage vacuum circuit-breaker with mechanical operating mechanism

- Vacuum interruption technique
- Vacuum interrupters embedded and sealed for life
- Fixed and withdrawable version
- Circuit-breaker racking-out and racking-in with the door closed
- Possibility of use in all types of installation
- Incorrect and hazardous operations prevented thanks to special locks in the operating mechanism and in the truck
- Highly reliable controls since characterised by a low number of components and manufactured using production systems for large quantities
- Extremely reduced and simple maintenance
- Mechanical anti-pumping device provided as standard
- Incorporated closing spring charging lever (except for VD4 40.5 kV version)
- Key lock with circuit-breaker open
- Protection over opening and closing pushbuttons for operation using a special tool
- Padlock on the operating pushbuttons



## Technical characteristics

Circuit-breaker		VD4 12							VD4 17							
Rated and insulation voltage	kV	12							17.5							
Withstand voltage (1 min)	kV (50 Hz)	28							38							
Impulse withstand voltage	kV	75							95							
Rated frequency	Hz	50-60							50-60							
Performance		Low/Medium				High			Low/Medium				High			
Utilization		Fixed/UniGear/PowerCube/ZS8.4 <sup>(1)</sup>							Fixed/UniGear/PowerCube/ZS8.4 <sup>(1)</sup>							
Rated normal current	A (40 °C)	630	1250	1600	2000	2500	3150	4000 <sup>(2)</sup>	630	1250	1600	2000	2500	3150	4000 <sup>(2)</sup>	
Rated breaking capacity and rated short-time withstand current (3 s)	kA	16	16	-	-	-	-	-	16	16	-	-	-	-	-	
		20	20	20	20	20	20	20	20	20	20	20	20	20	20	
		25	25	25	25	25	25	25	25	25	25	25	25	25	25	
		31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	
		-	40	40	40	40	40	40	-	40	40	40	40	40	40	
		-	50	50	50	50	50	50	-	50	50	50	50	50	50	
Making capacity	kA	40	40	-	-	-	-	-	40	40	-	-	-	-	-	
		50	50	50	50	50	50	50	50	50	50	50	50	50	50	
		63	63	63	63	63	63	63	63	63	63	63	63	63	63	
		80	80	80	80	80	80	80	80	80	80	80	80	80	80	
		-	100	100	100	100	100	100	-	100	100	100	100	100	100	
		-	125	125	125	125	125	125	-	125	125	125	125	125	125	
Operation sequence		[O-0.3s-CO-15s-CO] <sup>(3)</sup>							[O-0.3s-CO-15s-CO] <sup>(3)</sup>							
Opening time	ms	33 ... 60							33 ... 60							
Arc time	ms	10 ... 15							10 ... 15							
Total interruption time	ms	43 ... 75							43 ... 75							
Closing time	ms	30 ... 60							30 ... 60							
Overall dimensions (fixed version)		H mm	461 ... 616				599 ... 677			461 ... 616				599 ... 677		
		W mm	450 ... 750				600 ... 750			450 ... 750				600 ... 750		
		D mm	424 ... 459				424 ... 459			424 ... 459				424 ... 459		
Weight	Fixed	Kg	80 ... 163				140...177			80 ... 163				140...177		
	Withdrawable	Kg	100 ... 225				159 ... 260			100 ... 225				159 ... 260		
Technical catalogue	No.	1VCP000001							1VCP000001							

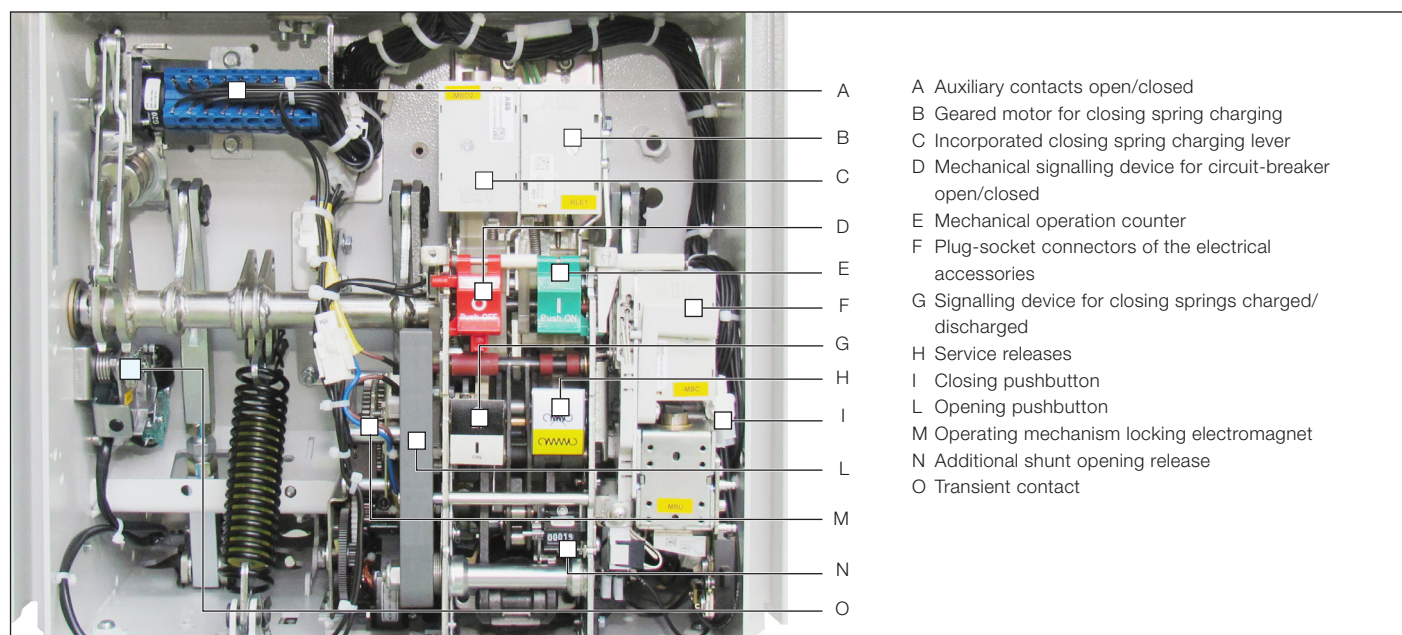
(1) ZS8.4 switchgear up to 1250 A - 25 kA.

(2) With forced ventilation.

(3) Ask ABB for high duty.

VD4 24					VD4 36					VD4 36 / VD4 40.5					
24					36					36 / 40.5					
50					70					95					
125					170					185 / 200					
50-60					50-60					50-60					
Low/Medium					High					High					
Fixed/UniGear/PowerCube/ZS8.4 (*)					ZS2					ZS3.2 - Powerbloc					
630	1250	1600	2000	2500	1250	1600	2000	2500 (?)	3150 (?)	630	1250	1600	2000	2500	3150 (?)
16	16	-	-	-	-	-	-	-	-	16	16	-	-	-	-
20	20	20	20	-	20	20	20	20	20	20	-	-	-	-	-
25	25	25	25	25	25	25	25	25	25	-	25	25	25	25	25
-	-	-	-	-	31.5	31.5	31.5	31.5	31.5	-	31.5	31.5	31.5	31.5	31.5
-	-	-	-	-	-	-	-	-	-	-	40	40	40	40	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	40	-	-	-	-	-	-	-	-	40	40	-	-	-	-
50	50	50	50	-	50	50	50	50	50	50	50	-	-	-	-
63	63	63	63	63	63	63	63	63	63	-	63	63	63	63	63
-	-	-	-	-	80	80	80	80	80	-	80	80	80	80	80
-	-	-	-	-	-	-	-	-	-	-	100	100	100	100	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[O-0.3s-CO-15s-CO] (*)					[O-0.3s-CO-15s-CO] (*)					O-3min-CO-3min-CO					
33 ... 60					35 ... 60					≤ 45	≤ 45	≤ 45	≤ 45	≤ 45	≤ 45
10 ... 15					10 ... 15					≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15
43 ... 75					45 ... 75					≤ 60	≤ 60	≤ 60	≤ 60	≤ 60	≤ 60
30 ... 60					50 ... 60					≈ 60	≈ 60	≈ 60	≈ 60	≈ 60	≈ 60
631 ... 642					977	977	977	977	977	1575	1575	1575	1575	1575	1575
570 ... 700					953	953	953	953	953	840	840	840	840	840	840
424					789	789	789	789	789	685	685	685	685	685	685
80 ... 120					170 ... 210					-	-	-	-	-	-
100 ... 150					230 ... 315					290/320	290/320	290/320	340	340	340
1VCP000001					1VCP000001					GCBA 520PO102					

## Main components



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