


VD4

Medium voltage vacuum circuit-breaker with mechanical operating mechanism

- Vacuum interruption technique
- Vacuum interrupters embedded in epoxy resin 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
- 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(1)							ZS1			Fixed/UniGear/PowerCube/ZS8.4(1)							ZS1		
Rated normal current	A (40 °C)	630	1250	1600	2000	2500	3150	4000(2)	630	1250	1600	2000	2500	3150	4000(2)						
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	-	-	-	-	-	-	-						
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	-	-	-	-	-	-	-						
		-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Operation sequence		[O-0.3s-CO-3s-CO] (3)							[O-0.3s-CO-3s-CO] (3)												
Opening time	ms	40 ... 60							40 ... 60												
Arc time	ms	10 ... 15							10 ... 15												
Total interruption time	ms	50 ... 75							50 ... 75												
Closing time	ms	60 ... 80							60 ... 80												
Overall dimensions (fixed version)		H mm	461 ... 616				599 ... 677			461 ... 616				599 ... 677							
		W mm	570 ... 700				600 ... 750			570 ... 700				600 ... 750							
		D mm	424				424 ... 459			424				424 ... 459							
Weight	Fixed	Kg	80 ... 120				-			80 ... 120				-							
	Withdrawable	Kg	100 ... 150				159 ... 260			100 ... 150				159 ... 260							
Technical catalogue	No.	1VCP000001				DECMS231202			1VCP000001				DECMS231202								

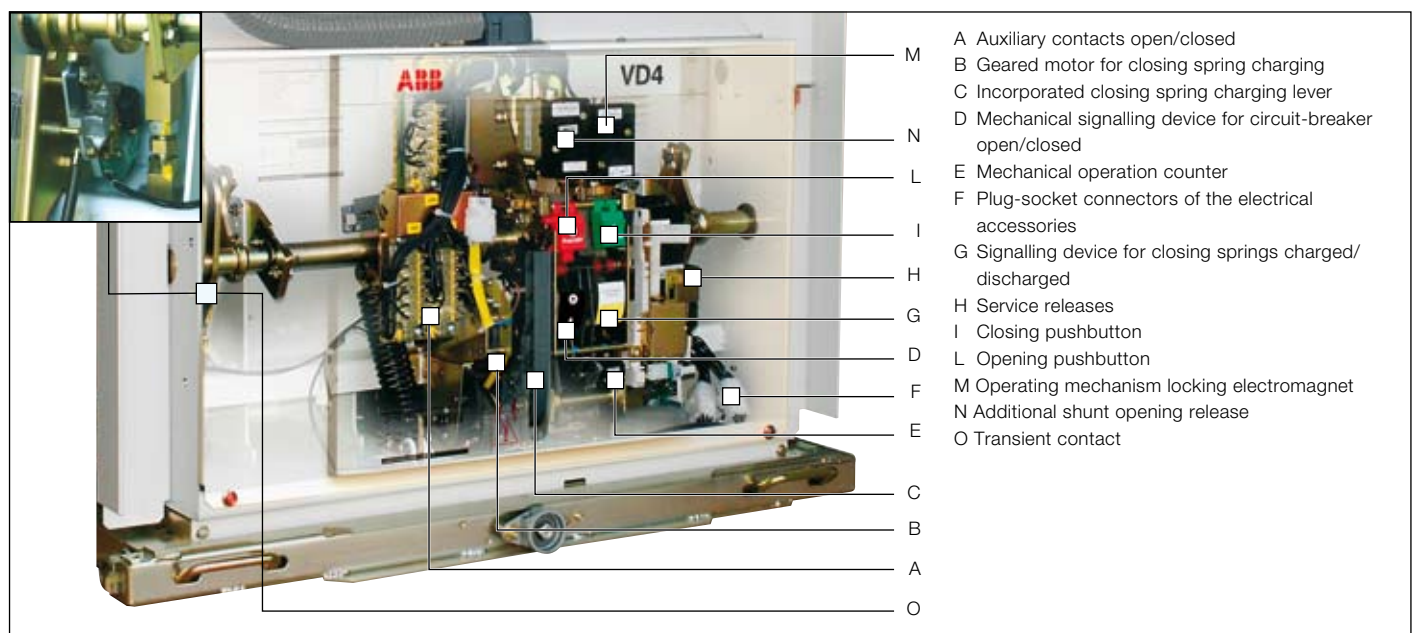
(1) ZS8.4 switchgear up to 1250 A - 25 kA.

(2) With forced ventilation.

(3) Ask ABB for high duty.

VD4 24					VD4 36					VD4 40.5				
24					36					40.5				
50					70					85				
125					170					185				
50-60					50-60					50-60				
Low/Medium					High					High				
Fixed/UniGear/PowerCube/ZS8.4 (1)					ZS3.2					ZS3.2				
630	1250	1600	2000	2500	1250	1600	2000	2500	3150 (2)	1250	1600	2000	2500	3150 (2)
16	16	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-
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	100	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[O-0.3s-CO-15s-CO] (3)					[O-0.3s-CO-15s-CO] (3)					[O-0.3s-CO-15s-CO] (3)				
40 ... 60					40 ... 60					40 ... 60				
10 ... 15					10 ... 15					10 ... 15				
50 ... 75					50 ... 75					50 ... 75				
60 ... 80					60 ... 80					60 ... 80				
461 ... 616					1575					1575				
570 ... 700					895 ... 1000					895				
424					555 ... 686					686				
80 ... 120					-					-				
100 ... 150					290 ... 350					290 ... 350				
1VCP000001					DECMS231203					DECMS231203				

Main components



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