

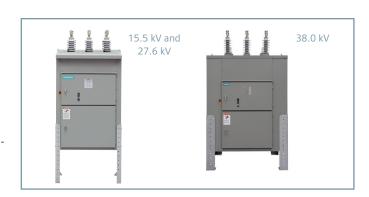
http://www.energy.siemens.com/us/en/power-distribution/outdoor-vacuum-distribution-circuit-breakers.htm

Distribution circuit breakers

Type SDV6, 15.5 kV, 27.6 kV and 38 kV, non-arc-resistant, stored-energy operator

Features and benefits

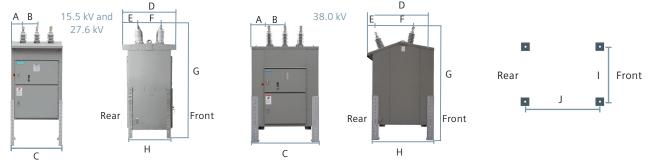
- Reliable performance time proven operating mechanism
- Time-proven type 3AH3 operator derived from operators introduced in 1977 (over 600,000 produced)
- Common operator for all ratings
- Extended capacitor switching (optional)
- Tested for out-of-phase switching ratings (ANSI/IEEE C37.09-1999)
- Large relay and control compartment
- Stainless steel exterior hardware
- Porcelain dry-type bushings with extended creep
- Highly reliable vacuum interrupters MTTF over 57,000 years
- Pair with Siemens protective relays to match any typical application
- Moderate and high seismic qualification (Zones 1-4) available
- Meets or exceeds the latest ANSI, IEEE and NEMA standards
- ANSI/IEEE "rain tested" enclosure (C37.20.2-1999)
- Circuit breaker shipped completely assembled and ready to install.



Control voltages, ANSI/IEEE C37.06										
Nominal	Rar	nge	Close coil	Trip coil	Spring charging motor					
	Close	Trip	А	А	A run (average)	Charging seconds				
48 Vdc	36-56	28-56	2.1	11.4/30	8	10				
125 Vdc	90-140	70-140	1.0	5.4/7.4	4	10				
250 Vdc	180-280	140-280	0.5	2.1/4.2	2	10				
120 Vac	104-127	104-127	0.9		6	10				
240 Vac	208-254	208-254	0.4		3	10				

Technical ratings										
Circuit breaker type SDV6	Rated maximum voltage	Rated withstand voltages		Rated short-	Rated	Rated	Rated transient recovery voltage ²		Rated	Rated closing
		Lightning impulse (BIL)	Power frequency	circuit and short-time current	interrupting time ¹	continuous current	u₄ TRV peak value	t₃ time to voltage u₀	permissible tripping delay time Y	and latching current
	kV, rms	kV³	kV	kA, rms	ms/cycles	A, rms	kV	μs	sec	kA, peak
15.5-20	15.5	110/142	50	20	50/3	1,200, 2,000	29.2	32	2	52
15.5-25	15.5	110/142	50	25	50/3	1,200, 2,000	29.2	32	2	65
15.5-31.5	15.5	110/142	50	31.5	50/3	1,200, 2,000, 3,000	29.2	32	2	82
15.5-40	15.5	110/142	50	40	50/3	1,200, 2,000, 3,000	29.2	32	2	104
27.6-20	27.6	150/194	60	20	50/3	1,200, 2,000	52.1	45	2	52
27.6-25	27.6	150/194	60	25	50/3	1,200, 2,000	52.1	45	2	65
38.0-20	38.0	200/258	80	20	50/3	1,200, 2,000	71.7	59	2	52
38.0-25	38.0	200/258	80	25	50/3	1,200, 2,000	71.7	59	2	65
38.0-31.5	38.0	200/258	80	31.5	50/3	1,200, 2,000	71.7	59	2	82
38.0-40	38.0	200/258	80	40	50/3	1,200, 2,000	71.7	59	2	104

Dimensions in inches (mm)										
Rating	A	В	С	D	E		G Minimum- Maximum	н		J
15.5 kV, 1,200 A-2,000 A	10.8	13.0	51.0	58.5	28.2	15.9	105.8-129.4	44.1	39.9	44.0
	(274)	(330)	(1,295)	(1,486)	(716)	(404)	(2,687-3,287)	(1,120)	(1,013)	(1,118)
15.5 kV, 3,000 A	12.2	15.7	59.3	63.7	28.2	21.3	105.8-129.4	44.1	39.9	52.3
	(310)	(399)	(1,506)	(1,618)	(716)	(541)	(2,687-3,287)	(1,120)	(1,013)	(1,328)
27.6 kV, 1,200 A-2,000 A	12.2	15.7	59.3	58.5	28.2	15.9	106.3-129.9	44.1	39.9	52.3
	(310)	(399)	(1,506)	(1,486)	(716)	(404)	(2,700-3,299)	(1,120)	(1,013)	(1,328)
38.0 kV, 1,200 A, 2,000 A	17.7	19.7	75.2	78.5	45.2	24.3	122.0-145.6	71.5	63.5	67.2
	(450)	(500)	(1,910)	(1,994)	(1,148)	(617)	(3,099-3,698)	(1,816)	(1,613)	(1,707)



- Footnotes:
- ¹ 83 ms/five-cycle optional for stored-energy operator.
- ² TRV values are in accordance with ANSI/IEEE C37.06-2009 TRV peak value u₂ roughly equal to historic E₂ value in ANSI/IEEE C37.06-2000. Value t₃, time to voltage u₂ is approximately 1/1.138 times T₂ value in ANSI/IEEE C37.06-2000.
- First value is full-wave impulse withstand circuit breaker open or closed. Second value is chopped-wave impulse withstand, applicable only with circuit breaker closed.

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