



K Factor = 1.0

CONSTANT INTERRUPTING RATING AT ALL NOMINAL VOLTAGES



NEW STANDARDS

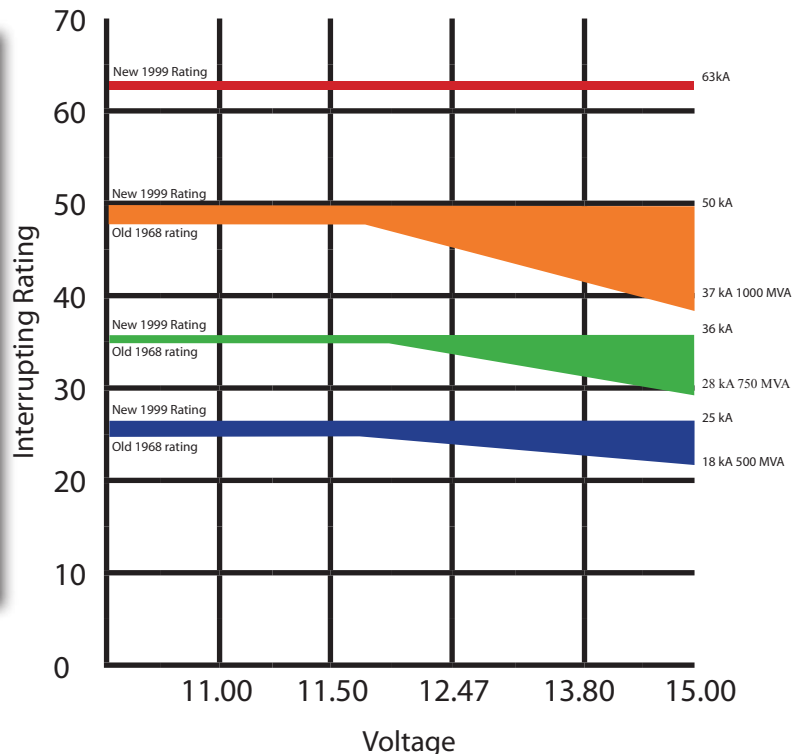
The ANSI standards have evolved from the 1945 revision when breakers were rated based on interrupting MVA. In 1964 the standards established varying K factors to adjust interrupting rating as a function of the voltage. The K factor reflects the performance of the oil and air interrupting technologies available at that time.

CONSTANT INTERRUPTING RATING

This practice ended with the 1999 change, where circuit breaker K factors were all set at a value of one. The K factor of 1.0 results in all medium voltage breakers, tested to ANSI standard V37.09, having a constant interrupting rating irrespective of nominal system voltage. The changes in interrupting rating at the system voltage can be seen in the table below.

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Circuit Breaker Comparison at 15kV



- K Factor = 1.0 for constant interrupting rating**
- Tested for 10,000 operations**
- 36" Wide**
- Low Maintenance Current Transfer**
- Fits Into Existing PowlVac[®] Switchgear**
- 3 Second Short Time**
- UL and C-UL Listed**



Standard Design PowlVac® and PowlVac-AR® (36" wide)

Breaker Type	Cell Width in/mm	Maximum Voltage	Nominal Voltage	Symmetrical Interrupting Rating (kA rms) (a)	Obsolete MVA Rating	Continuous Current (A rms) (b)	Power Frequency Withstand (kV)	BIL Crest (kV)	Momentary Close & Latch Rating (kA Crest)	% DC interrupting Current (c)	Rated interrupting Time (cycle/msec) (c)	Short Time Current 3 sec (kA)	Back to Back Capacitor Switching (Amps) (d)	
5kV	05PV36STD	36/914	4.76	4.16	36	250	1200, 2000, 3000, 4000	19	60	97	50	3/50	36	-
	05PV50STD	36/914	4.76	4.16	50	350	1200, 2000, 3000, 4000	19	60	135	50	3/50	50	-
	05PV63STD	36/914	4.76	4.16	63	500	1200, 2000, 3000, 4000	19	60	170	50	3/50	63	1640
15kV	15PV25STD	36/914	15.0	13.8	25	500	1200, 2000, 3000, 4000	36	95	67	50	3/50	25	1640
	15PV36STD	36/914	15.0	13.8	36	750	1200, 2000, 3000, 4000	36	95	97	50	3/50	36	1640
	15PV50STD	36/914	15.0	13.8	50	1000	1200, 2000, 3000, 4000	36	95	135	50	3/50	50	1640
	15PV63STD	36/914	15.0	13.8	63	1500	1200, 2000, 3000, 4000	36	95	170	50	3/50	63	1640

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(Narrow Design) PowlVac-ND® and PowlVac ND-AR® (26" wide)

5kV	05PV36SND	26/660	4.76	4.16	36	250	1200, 2000	19	60	97	50	3/50	36	-
	05PV50SND	26/660	4.76	4.16	50	350	1200, 2000	19	60	135	50	3/50	50	-

PV System 27® and PV System 27 AR® (40" wide)

27kV	27AT25STD	40/1016	27.0	25.0	25	-	1200, 2000	60	125	68	50	3/50	25	250
	27AT40STD	40/1016	27.0	25.0	40	-	1200, 2000	60	125	108	50	3/50	40	250

PV System 38® and PV System 38 AR® (40" wide)

38kV	38AT40STD	40/1016	338.0	34.5	40	-	1200, 2000	80	150	108	50	3/50	40	250
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