

Data Sheet

LIGHTNING SURGE ARRESTER, MAXIMUM DUTY 1903 SERIES

Maximum lightning protection for LF-HF antennas and tuning units, for neutral-to-earth isolation in ac power protection schemes, and for protected 'bridging' of isolated ground zones and insulated pipe sections.



DC SPARKOVER *		MODEL NUMBER	CAPACITANCE MAX, 1 MHz	IMPULSE SPARKOVER		OPERATING ALTITUDE, MAX
NOMINAL	MINIMUM			10 kV/ μ s	MAX	
200 V	170 V	1903-11	14 pF	.85 kV	2.8 kV	15,000 m
250 V	210 V	1903-02	14 pF	1.0 kV	3.0 kV	15,000 m
275 V	230 V	1903-08	14 pF	1.1 kV	3.2 kV	15,000 m
300 V	250 V	1903-17	14 pF	1.2 kV	3.5 kV	15,000 m
500 V	420 V	1903-14	14 pF	2.0 kV	7.0 kV	15,000 m
700 V	600 V	1903-13	14 pF	2.5 kV	9.5 kV	15,000 m
750 V	675 V	1903-28	14 pF	2.5 kV	9.5 kV	15,000 m
1.25kV	1.0 kV	1903-18	12 pF	2.5 kV	8.5 kV	15,000 m
2.5 kV	2.0 kV	1903-19	10 pF	3.0 kV	6.0 kV	12,000 m
3.5 kV	3.0 kV	1903-26	10 pF	4.5 kV	8.5 kV	10,000 m
4.5 kV	4.0 kV	1903-05	10 pF	5.5 kV	9.5 kV	8,000 m
5.5 kV	5.0 kV	1903-27	10 pF	7.0 kV	14.0 kV	7,000 m
6.5 kV	6.0 kV	1903-07	10 pF	8.0 kV	19.0 kV	6,000 m
8.0 kV	7.5 kV	1903-15	10 pF	9.5 kV	20.0 kV	5,000 m
9.0 kV	8.0 kV	1903-22	10 pF	11.0 kV	22.0 kV	4,000 m

- Extreme Duty Discharge - - - - 150 kA IT = 220 AS I²T = 3 x 10⁶A²s
- Surge Life - - - - 100 kA (Mil-A-9094C) 12 strokes
- 40 kA 8/20 μ s 850 strokes
- 10 kA 8/20 μ s 2500 strokes
- Insulation Resistance (U = 50% DC sparkover) - - - - 10⁹ Ω
- Temperature - - - - Storage -65 to 95 C
- Operating -55 to 70 C
- Shipping Weight - - - - 0.4 kg
- Tightening Torque (top terminal nuts) - - - - 1 wrench 4.5 N-m (40 in-lb) max
- 2 wrenches 6.0 N-m (60 in-lb) max

* DC sparkover is measured at <1 kV/s. In RF applications, the peak rf sparkover, as compared to the dc sparkover, will decrease approximately 7% at 1 MHz, 15% at 10 MHz, 20% at 20 MHz, 25% at 30 MHz.

