



Features:

- Made From a Durable Polymer Housing
- Meets IEC 60099-4 and IEEE C 62.11 Standards
- Available With Mounting Hardware
- Most Typical Voltages Are Available



ELECTRICAL RATINGS AND CHARACTERISTICS

CKE Part Number	Max. Continuous Operating Voltage, V_{MCOV} , kV_{RMS}	Rated Voltage, V_R , kV_{RMS}	Rated Discharge Current, kA peak Value	Min. DC Reference Voltage, V_{1mA} , kV	Max. Res. Voltage at Steep Impulse $1/10\mu s$, kV	Max. Res. Voltage at Lightning Impulse $8/20\mu s$, kV
CK10W-3/8.5	2.55	3	10	4.3	10.2	8.8
CK10W-6/17	5.10	6	10	8.6	20.4	17.6
CK10W-9/25.5	7.65	9	10	12.9	30.6	25.5
CK10W-9/29	7.65	9	10	12.9	30.6	26.4
CK10W-12/34	10.20	12	10	17.2	40.8	35.2
CK10W-15/42.5	12.75	15	10	21.5	51.0	44.0
CK10W-18/51	15.3	18	10	25.8	61.2	52.8
CK10W-21/59.5	17.85	21	10	30.1	71.4	61.6
CK10W-24/68	20.40	24	10	34.4	81.6	70.4
CK10W-27/76.5	22.95	27	10	38.7	91.8	79.2
CK10W-30/85	25.5	30	10	43	102.0	88.0
CK10W-33/93.5	28.05	33	10	47.3	112.2	96.8
CK10W-36/102	30.06	36	10	51.6	122.4	105.6



CKE Part Number	Max. Res. Voltage @ Switching Impulse 30/60 μ s, kV	Withstand Capability @ Current Impulse 4/10 μ s, kA	Housing Insulation Level @ Lightning Impulse, kV	Housing Insulation Level @ Power Frequency in Wet 1 min., kV	Mechanical Strength, Torsional/ Cantilever (N.m / N)	Creepage Distance, mm
CK10W-3/8.5	7.5	100	11.5	8	50/147	215
CK10W-6/17	15.0	100	23.0	16	50/147	443
CK10W-9/25.5	22.5	100	34.5	24	50/147	443
CK10W-9/29	22.5	100	34.5	24	50/147	443
CK10W-12/34	30.0	100	46.0	32	50/147	443
CK10W-15/42.5	37.5	100	57.5	40	50/147	557
CK10W-18/51	45.0	100	69.0	48	50/147	671
CK10W-21/59.5	52.5	100	80.5	56	50/147	671
CK10W-24/68	60.0	100	92.0	64	50/147	785
CK10W-27/76.5	67.5	100	103.5	72	50/147	899
CK10W-30/85	75.0	100	115.0	80	50/147	1013
CK10W-33/93.5	82.5	100	126.5	88	50/147	1127
CK10W-36/102	90.0	100	138.0	96	50/147	1127

GENERAL DESCRIPTION

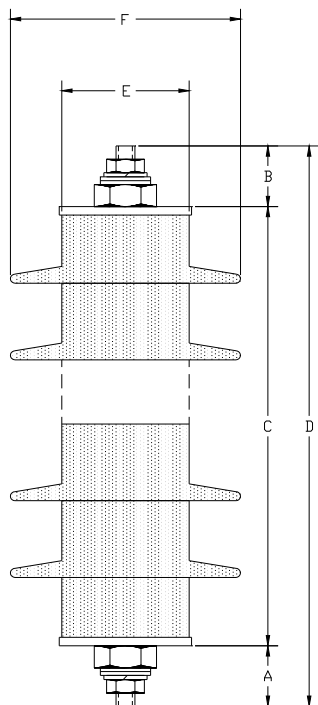
Metal oxide surge arrestors of rated voltage 3-36 kV are protective apparatus used for protecting AC transmission and transformation equipment against damage from atmospheric and switching overvoltage. Compared with silicon carbide surge arrestor, metal oxide surge arrestors have superior protective characteristics, good reliability, high discharge capacity, and simple construction, thus assuring the best overall protection for transmissions and transformation equipment.

Usually, the arrestor is connected between system and ground in parallel with protected equipment. At continuous operating voltage, metal oxide arrestors appear to be an extremely high resistance, with the resistive current through the arrestor in the order of microamperes. In appearance of a lightning stroke or switching surge on the system, the residual voltage across the arrestor will be limited to a certain permissible value because of the excellent non-linearity of arrestors. The high surge energy of the line will be absorbed; thus, the insulation of electrical equipment is protected.

The zinc oxide surge arrestor can be used in the following conditions: ambient temperature -40°C to +40°C; altitude above sea level up to 1000m; withstanding 8.0 earthquake intensity (horizontal acceleration 0.2g). Anti-vibration type, anti-pollution type and plateau type arrestors are available for special application. Anti-vibration type arrestors are adaptable for use in 9.0 earthquake intensity. Anti-pollution type arrestors are usable in heavy pollution areas. Plateau type arrestors are for relatively high-altitude regions.



MECHANICAL DRAWING AND DIMENSIONS



CKE Part Number	Dimensions (in)					
	'A'	'B'	'C'	'D' ± 0.4	'E'	'F'
CK10W-3/8.5	1.18	1.18	4.17	6.53	2.32	4.64
CK10W-6/17	1.18	1.18	7.00	9.37	2.32	4.64
CK10W-9/25.5	1.18	1.18	7.00	9.37	2.32	4.64
CK10W-9/29	1.18	1.18	7.00	9.37	2.32	4.64
CK10W-12/34	1.18	1.18	7.00	9.37	2.32	4.64
CK10W-15/42.5	1.18	1.18	8.42	10.78	2.32	4.64
CK10W-18/51	1.18	1.18	9.84	12.20	2.32	4.64
CK10W-21/59.5	1.18	1.18	9.84	12.20	2.32	4.64
CK10W-24/68	1.18	1.18	11.26	13.62	2.32	4.64
CK10W-27/76.5	1.18	1.18	12.67	15.03	2.32	4.64
CK10W-30/85	1.18	1.18	14.09	16.45	2.32	4.64
CK10W-33/93.5	1.18	1.18	15.51	17.87	2.32	4.64
CK10W-36/102	1.18	1.18	15.51	17.87	2.32	4.64

