

Surge Arresters Main Principle

Zno lighting arrester is one kind most world advanced over-voltage protector at present, due to its core components of resistance applying Zno and other metal oxide to make of, comparing with traditional carborundum arrester, it improves greatly V-A characteristics of resistance, increases the getting trough ability of resistance, thereby it brings fundamental change to features of arrester.

Under normal working voltage, the current passing arrester only A class, when bearing over voltage, the excellent non-linear V-A features of arrester would make effect, the current passing through the arrester increase high to thousands of Ampere instant, the arrester is under getting through state, to release over-voltage energy, therefore it effectively limits the damage to power transmission equipments due to over voltage.

Application and Features

Zno lighting arrester is one kind protecting equipment preventing electric equipments in AC power system from high voltage and over-voltage operation.

5KAGapless arrester electrical parameter

Type	Rated Voltage(kV)	MCOV(kV)	Residual Voltage(kV)			2000µs Squarewave Impulse Current Withstand	4/10µs High Current Impulse(kV)
			Steep Current Impulse	Switching Current Impulse	8/20µs Lightning Current Impulse		
YH05W-3	3	2.55	9.5	7.7	9	100	65
YH05W-6	6	5.1	19.5	15.4	18	100	65
YH05W-9	9	7.65	28.5	23.1	27	100	65
YH05W-10	10	8.4	36	30	23	150	65
YH05W-11	11	9.4	40	33	30	150	65
YH05W-12	12	10.2	38	30.8	36	100	65
YH05W-15	15	12.7	47.5	38.5	45	100	65
YH05W-18	18	15.3	57	46.2	54	100	65
YH05W-21	21	17	66.5	53.9	63	100	65
YH05W-24	24	19.2	76	61.6	72	100	65
YH05W-27	27	21.9	85.5	69.3	81	100	65
YH05W-30	30	24.4	95	76.5	90	100	65
YH05W-33	33	26.8	104.5	84.7	99	100	65
YH05W-36	36	29	114	92.4	108	100	65
YH05W-42	42	34.1	132.3	100.1	126	100	65

Note: if it is porcelain, without "H"

10KAGapless arrester electrical parameter

Type	Rated Voltage(kV)	MCOV(kV)	Residual Voltage(kV)			2000µs Squarewave Impulse Current Withstand	4/10µs High Current Impulse(kV)
			Steep Current Impulse	Switching Current Impulse	8/20µs Lightning Current Impulse		
YH10W-3	3	2.55	9.5	7.7	9	1	100
YH10W-6	6	5.1	19.5	15.4	18	1	100
YH10W-9	9	7.65	28.5	23.1	27	1	100
YH10W-10	10	8.4	36	30	23	250	100
YH10W-11	11	9.4	40	33	30	250	100
YH10W-12	12	10.2	38	30.8	36	1	100
YH10W-15	15	12.7	47.5	38.5	45	1	100
YH10W-18	18	15.3	57	46.2	54	1	100
YH10W-21	21	17	66.5	53.9	63	1	100
YH10W-24	24	19.2	76	61.6	72	1	100
YH10W-27	27	21.9	85.5	69.3	81	1	100
YH10W-30	30	24.4	95	76.5	90	1	100
YH10W-33	33	26.8	104.5	84.7	99	1	100
YH10W-36	36	29	114	92.4	108	1	100
YH10W-42	42	34.1	132.3	100.1	126	1	100
YH10W-48	48	39	152	126	150	1	100
YH10W-54	54	43	171	139	162	1	100
YH10W-60	60	48	208	160	180	1	100
YH10W-66	66	52.8	230	172	198	1	100

Note: if it is porcelain, without "H"



Drawing No.	RLA1	RLA2	RLA3	RLA4	RLA5	RLA6
Voltage	33-36kV	27-30kV	24-27kV	21-24kV	15-18kV	15kV
Type	YH05W- YH10W-*	YH05W- YH10W-*	YH05W- YH10W-*	YH05W- YH10W-*	YH05W- YH10W-*	YH05W- YH10W-*



Drawing No.	RLA7	RLA9	RLA10	RLA11	RLA12
Voltage	33-36kV	24kV	12kV	9kV	12kV
Type	YH05W- YH10W-*	YH05W- YH10W-*	YH05W- YH10W-*	YH05W- YH10W-*	YH05W- YH10W-*