

METAL OXIDE SURGE ARRESTER

General

0.22kV to 220kV polymer housed (Series YH), porcelain housed (Series Y) and GIS metal sealed (Series YF) metal oxide surge arrester are used to protect for 0.22kV to 220kV A.C. system against over-voltage damage. We can design and produce surge arresters for particular service conditions according to user's requirements.

All technical performance are compliance with GB/T15166.3, IEC282-2 and ANSI/ IEEE37.41.

Service Conditions

1. Ambient temperature: -40 0C ~ +40 0C
2. Altitude: above 1000m
3. Frequency: 48Hz to 60Hz
4. The power frequency voltage applied continuously on the arrester should be less than Continuous Operating Voltage
5. Maximum wind velocity: 45m/s
6. Earthquake intensity: 7 degree

Test

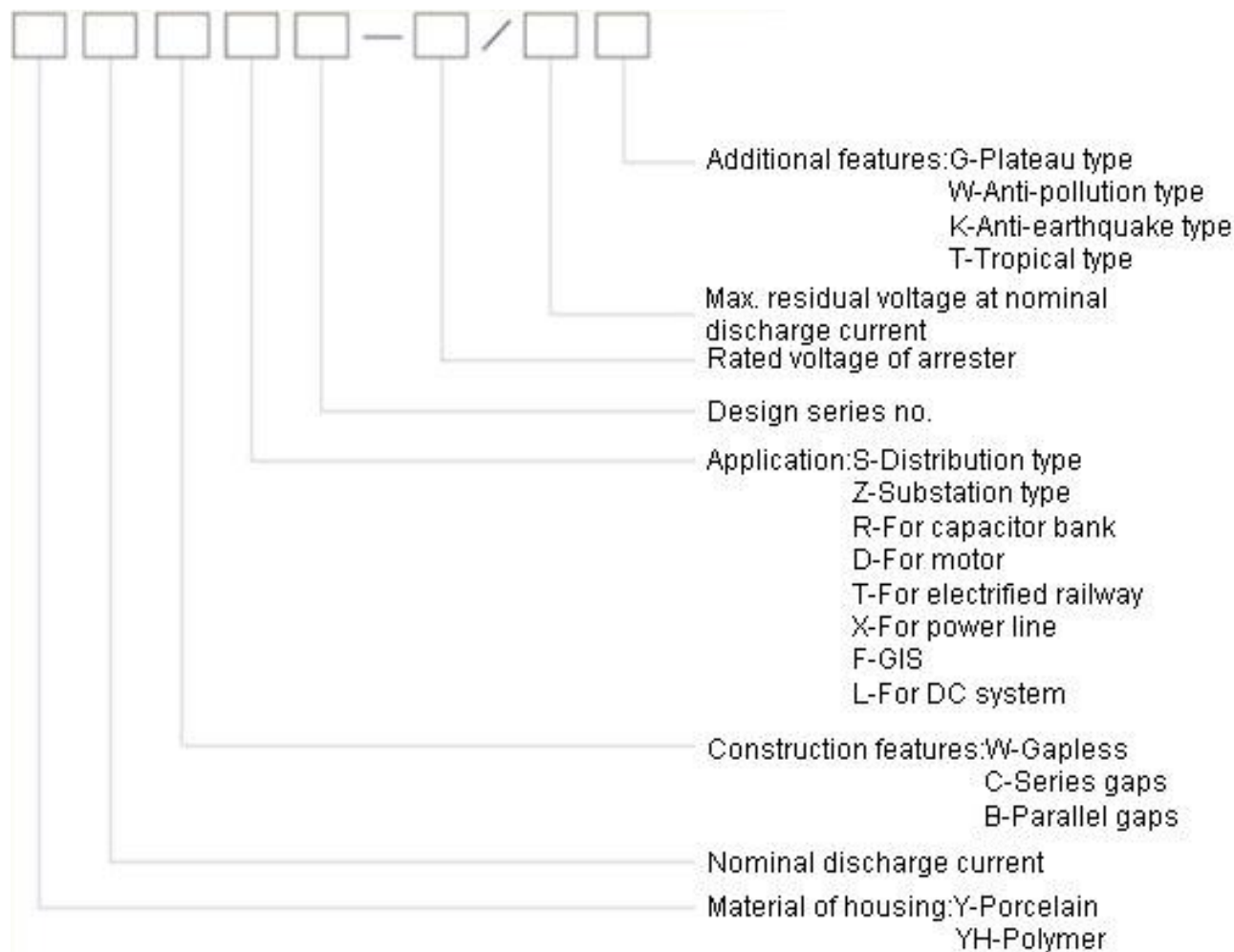
1. DC Reference voltage test
2. Leakage current test under 0.75 U_{1mA}
3. Partial discharge test
4. Sealing test
5. Continuous current test
6. Power frequency withstand voltage test (at resistant current 1mA)
7. Residual voltage test at nominal discharge current

Information to be Given before Ordering

1. Type code
2. Construction requirements
3. Ambient service conditions
4. Accessories to be completed

5. Special requirements

✚ Meaning of Type Code



✚ Technical Specification

Typical types and its technical specifications of 0.22kV to 220kV polymer housed metal oxide surge arrester (Series YH), in accordance with Standards: IEC 60099-4, GB11032-2000 and T8952-2005.

Nominal System Voltage kV	Type Code	Rated Voltage kV	MCOV KV	Residual Voltage ≤kV			DC Ref. Voltage (at 1mA) ≥ kV	Power Frequency Voltage(at Resistant Current of 1mA)	2ms Rectan-gular Current A	4/10us High Current Impulse Withstand KV	Creepage Distance mm	Dwg. No.
				1/4	8/20	30/60						
				0.22	YH1.5WS-0.28/1.3	0.28						
0.38	YH1.5WS-0.5/2.6	0.38	0.42		2.6		1.2	0.5				
3	YH5WS-5/15	5	4	17.3	15	12.8	7.5	5	150	65	95	2
	YH5WZ-5/13.5	5	4	15.5	13.5	11.5	7.2	5	200		105	
6	YH5WS-10/30	10	8	34.6	30	25.6	15	10	150	65	227	3
	YH5WZ-10/27	10	8	31	27	23	14.4	10	200		245	
10	YH5WS-17/50	17	13.6	57.5	50	42.5	25	17	150	65	370	4
	YH5WZ-17/45	17	13.6	51.8	45	38.5	24	17	200		386	
35	YH5WZ-51/134	51	40.8	154	134	114	73	51	400	100	1090	5
66	YH5W-84/221	84	67.2	254	221	188	121	84	600 (800)	100	2314	6
	YH5W-90/235	90	72.5	270	235	201	130	90			3150	7
	YH10W-90/235	90	72.5	264	235	201	130	90			3150	7
110	YH5W-96/250	96	75	288	250	213	140	96	600 (800)	100	3150	7
	YH5W-100/260	100	78	299	260	221	145	100				
	YH5W-102/266	102	79.6	305	266	226	148	102				
	YH5W-108/281	108	84	323	281	239	157	108				
	YH10W-96/250	96	75	280	250	213	140	96				
	YH10W-100/260	100	78	291	260	221	145	100				
	YH10W-102/266	102	79.6	297	266	226	148	102				
YH10W-108/281	108	84	315	281	239	157	108					
220	YH10W-192/500	192	150	560	500	426	280	192	600 (800)	100	6300	8
	YH10W-200/520	200	156	582	520	442	290	200				
	YH10W-204/532	204	159	594	532	452	296	204				
	YH10W-216/562	216	168	630	562	478	314	216				

 **Dimension**

Outline installation dimension and weight of 0.22kV to 220kV polymer housed metal oxide surge arrester (Series YH)

S.N.	Type Code	Total height (mm)	Height of body (mm)	Max. diameter of shed (mm)	Ref. weight (kg)	Remarks	Dwg. No.
1	YH1.5W-0.28-5	80	35	57	0.1	Suitable for altitude up to 2000m	1
2	YH5WS-5/15	148	80	97	0.4	Suitable for altitude up to 2000m	2
3	YH5WZ-5/13.5	150	85	107	0.6	Suitable for altitude up to 2000m	3
4	YH5WS-10/30	220	144	97	1	Suitable for altitude up to 2000m	3
5	YH5WZ-10/27	215	140	107	1.3	Suitable for altitude up to 2000m	3
6	YH5WS-12.7~17	260	196	97	1.3	Suitable for altitude up to 2000m	4
7	YH5WZ-12.7~17	260	196	107	1.8	Suitable for altitude up to 2000m	4
8	YH5WZ-42~54	650	600	150	11	Suitable for altitude up to 2000m	5
9	YH5WZ-60~90	1030	920	170	21	Suitable for altitude up to 2000m	6
10	YH5WZ-96~108 YH10WZ-96~108	1287	1170	216	50	Suitable for altitude up to 2000m ,with optional creepage distance of 25mm/kV, 31mm/kV, 35mm/kV	7
11	YH10WZ-192~216	2458	1170	216	100	Suitable for altitude up to 2000m ,with optional creepage distance of 25mm/kV, 31mm/kV, 35mm/kV	8

