

**Protective Technology Flow Chart of Polymer Housing
Metal-oxide Surge Arrester**



Metal-oxide Surge Arrester

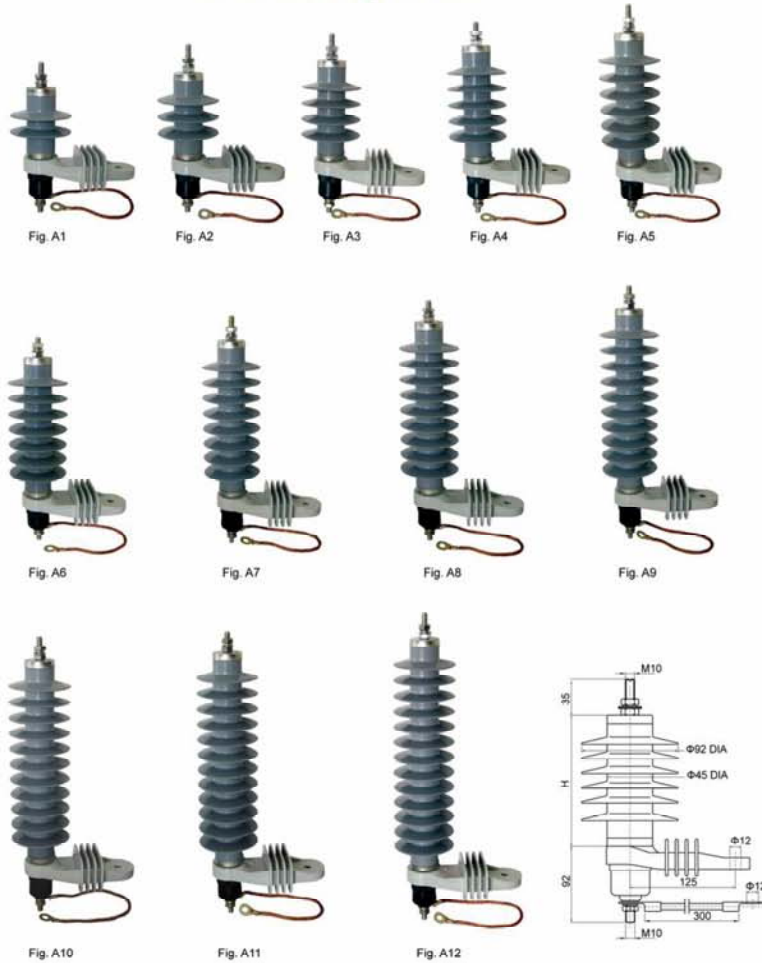


Table 2— Main Technical Parameter of Polymer Housing Metal-oxide Surge Arrester

(Nominal Discharge Current: 5kA, Design model: E1)

		3	6	9	10	11	12	15	18	21	24	27	30	33	36
Rated Voltage(U)	kV	3	6	9	10	11	12	15	18	21	24	27	30	33	36
Nominal discharge current(In)	kA	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1 Type		YHSW-3	YHSW-6	YHSW-9	YHSW-10	YHSW-11	YHSW-12	YHSW-15	YHSW-18	YHSW-21	YHSW-24	YHSW-27	YHSW-30	YHSW-33	YHSW-36
2 Maximum continuous operating voltage(Uc)	kV	2.55	5.10	7.65	8.40	9.35	10.20	12.70	15.30	17.00	19.50	22.00	24.40	26.70	29.00
3 Residual voltage at															
3.1 -Lighting impulse 8/20 μs	kV	8.6	17.2	25.8	28.5	31.4	34.4	43.0	47.5	57.0	66.5	76.0	83.7	95.0	104.5
3.2 -Steep current impulse 1/10 μs	kV	9.9	19.8	29.7	32.8	36.1	39.6	49.5	54.6	65.5	76.4	87.4	96.2	109.2	125.2
3.3 -Switching impulse 30/60 μs	kV	7.3	14.6	21.9	24.2	26.7	29.2	36.5	40.3	48.4	56.5	64.6	71.1	80.7	88.8
4 Long duration current impulse withstand															
4.1 -2ms rectangular current withstand	A	100	100	100	100	100	100	100	100	100	100	100	100	100	100
5 Operating duty															
5.1 -4/10 μs high current impulse withstand	kA	55	55	55	55	55	55	55	55	55	55	55	55	55	55
6 Housing insulation withstand															
6.1 -Lighting impulse	kV	40	60	85	75	85	95	105	120	125	135	155	170	185	190
6.2 -Power frequency (wet)	kV	20	25	30	30	40	40	50	55	58	60	65	70	75	85
7 Partial discharge	pC	< 10													
8 Creepage distance	mm	188	235	301	301	367	367	433	499	565	631	697	763	829	900
9 Creepage distance/ rated voltage ratio	mm/kV	56.0	39.0	33.4	30.1	33.3	30.5	28.8	27.7	26.9	26.3	25.8	25.4	25.1	25.0
10 Mechanical section length Drawing "H"	mm	110	135	160	160	185	185	210	235	260	285	310	335	360	385
11 Shed number	pcs	2	3	4	4	5	5	6	7	8	9	10	11	12	13
12 Mechanical strength															
12.1 -Torsional	Nm	60	60	60	60	60	60	60	60	60	60	60	60	60	60
12.2 -Cantilever	N	147	147	147	147	147	147	147	147	147	147	147	147	147	147
13 Package data															
13.1 -Net weight of each unit	Kg	1.03	1.17	1.33	1.35	1.48	1.48	1.64	1.76	1.95	2.11	2.29	2.38	2.56	2.67
13.2 -Dimensions (PCS:CTN)	cm	33x32x23	36x32x23	38x32x23	38x32x23	40x32x23	40x32x23	43x32x23	45x32x23	48x32x23	50x32x23	53x32x23	55x32x23	58x32x23	60x32x23
14 Figure No.		Fig. A1	Fig. A2	Fig. A3	Fig. A3	Fig. A4	Fig. A4	Fig. A5	Fig. A6	Fig. A7	Fig. A8	Fig. A9	Fig. A10	Fig. A11	Fig. A12

Metal-oxide Surge Arrester

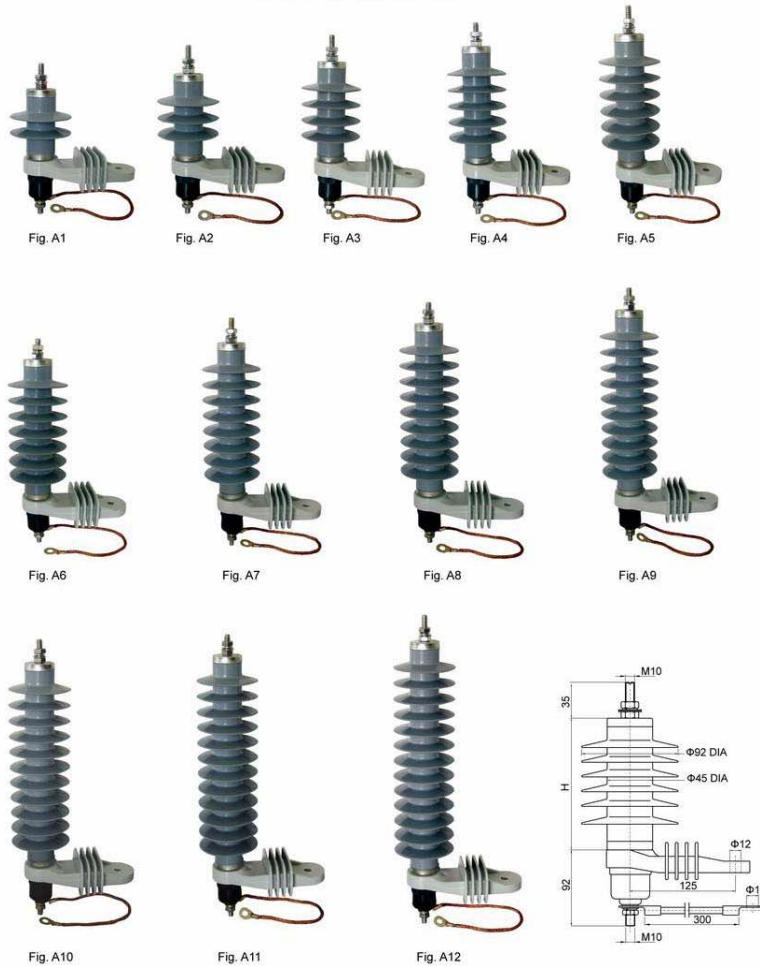


Table 2— Main Technical Parameter of Polymer Housing Metal-oxide Surge Arrester

(Nominal Discharge Current: 5kA, Design model: E1)

Rated Voltage(U _r)	KV	3	6	9	10	11	12	15	18	21	24	27	30	33	36	
Nominal discharge current(I _n)	KA	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1 Type		YHSW-3	YHSW-6	YHSW-9	YHSW-10	YHSW-11	YHSW-12	YHSW-15	YHSW-18	YHSW-21	YHSW-24	YHSW-27	YHSW-30	YHSW-33	YHSW-36	
2 Maximum continuous operating voltage(U _c)	KV	2.55	5.10	7.65	8.40	9.35	10.20	12.70	15.30	17.00	19.50	22.00	24.40	26.70	29.00	
3 Residual voltage at																
3.1 -Lightning impulse 8/20 μs	KV	8.6	17.2	25.8	28.5	31.4	34.4	43.0	47.5	57.0	66.5	76.0	83.7	95.0	104.5	
3.2 -Sleep current impulse 1/10 μs	KV	9.9	19.8	29.7	32.8	36.1	39.6	49.5	54.6	65.5	76.4	87.4	96.2	109.2	125.2	
3.3 -Switching impulse 30/60 μs	KV	7.3	14.6	21.9	24.2	26.7	29.2	36.5	40.3	48.4	56.5	64.6	71.1	80.7	88.8	
4 Long duration current impulse withstand																
4.1 -Zinc rectangular current withstand	A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
5 Operating duty																
5.1 -4/10 μs high current impulse withstand	KA	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
6 Housing insulation withstand																
6.1 -Lightning impulse	KV	40	60	65	75	85	95	105	120	125	135	155	170	185	190	
6.2 -Power frequency (wet)	KV	20	25	30	30	40	40	50	55	58	60	65	70	75	85	
7 Partial discharge	pC	< 10														
8 Creepage distance	mm	169	235	301	301	367	367	433	499	565	631	697	763	829	900	
9 Creepage distance/ rated voltage ratio	mm/kV	56.0	39.0	33.4	30.1	33.3	30.5	28.8	27.7	26.9	26.3	25.8	25.4	25.1	25.0	
10 Mechanical section length (Drawing "H")	mm	110	135	160	160	185	185	210	235	260	285	310	335	360	385	
11 Shed number	pcs	2	3	4	4	5	5	6	7	8	9	10	11	12	13	
12 Mechanical strength																
12.1 -Torsional	Nm	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
12.2 -Cantilever	N	147	147	147	147	147	147	147	147	147	147	147	147	147	147	
13 Package data																
13.1 -Net weight of each unit	Kg	1.03	1.17	1.33	1.35	1.48	1.48	1.64	1.76	1.95	2.11	2.29	2.38	2.56	2.67	
13.2 -Dimensions (6PCS/CTN)	cm	33x32x23	36x32x23	38x32x23	38x32x23	40x32x23	40x32x23	43x32x23	45x32x23	48x32x23	50x32x23	53x32x23	55x32x23	58x32x23	60x32x23	
14 Figure No.		Fig. A1	Fig. A2	Fig. A3	Fig. A3	Fig. A4	Fig. A4	Fig. A5	Fig. A5	Fig. A7	Fig. A8	Fig. A9	Fig. A10	Fig. A11	Fig. A12	

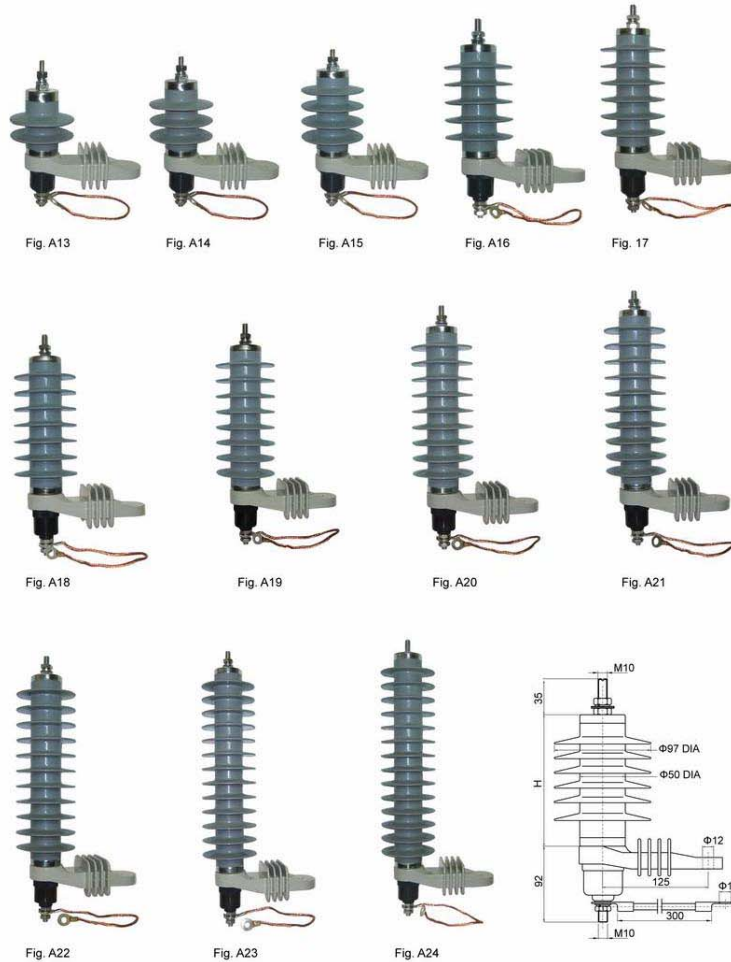


Table 3— Main Technical Parameter of Polymer Housing Metal-oxide Surge Arrester

(Nominal Discharge Current: 5kA, Design model: S1)

		3	6	9	10	11	12	15	18	21	24	27	30	33	36
Rated Voltage(U)	kV	3	6	9	10	11	12	15	18	21	24	27	30	33	36
Nominal discharge current(I _n)	kA	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1 Type		YHSW-3	YHSW-6	YHSW-9	YHSW-10	YHSW-11	YHSW-12	YHSW-15	YHSW-18	YHSW-21	YHSW-24	YHSW-27	YHSW-30	YHSW-33	YHSW-36
2 Maximum continuous operating voltage(U _c)	kV	2.55	5.10	7.65	8.40	9.35	10.20	12.70	15.30	17.00	19.50	22.00	24.40	26.70	29.00
3 Residual voltage at															
3.1 -Lightning impulse 8/20 μs	kV	8.4	16.8	25.2	27.9	30.7	33.6	42.0	46.5	55.8	65.1	74.4	83.7	93.0	102.0
3.2 -Sleep current impulse 1/10 μs	kV	9.6	19.2	28.8	32.0	35.3	38.6	48.0	53.5	64.1	74.8	85.5	96.2	106.9	117.6
3.3 -Switching impulse 30/60 μs	kV	7.1	14.2	21.3	23.7	26.0	28.4	35.5	39.5	47.4	55.3	63.2	71.1	79.0	87.7
4 Long duration current impulse withstand															
4.1 -2ms rectangular current withstand	A	150	150	150	150	150	150	150	150	150	150	150	150	150	150
5 Operating duty															
5.1 -410 μs high current impulse withstand	kA	65	65	65	65	65	65	65	65	65	65	65	65	65	65
6 Housing insulation withstand															
6.1 -Lightning impulse	kV	40	60	65	75	85	95	105	120	125	135	155	170	185	190
6.2 -Power frequency, (wet)	kV	20	25	30	30	40	40	50	55	58	60	65	70	75	85
7 Partial discharge	pC	< 10													
8 Creepage distance	mm	140	205	270	270	335	335	400	465	530	600	675	750	855	920
9 Creepage distance/ rated voltage ratio	mm/kV	46.7	34.2	30.0	27.0	30.0	27.9	26.6	25.8	25.2	25.0	25.0	25.0	25.9	25.5
10 Mechanical section length(Drawing "H")	mm	85	110	135	135	160	160	185	210	235	260	285	310	360	385
11 Shed number	pcs	2	3	4	4	5	5	6	7	8	9	10	11	13	14
12 Mechanical strength															
12.1 -Torsional	Nm	60	60	60	60	60	60	60	60	60	60	60	60	60	60
12.2 -Cantilever	N	147	147	147	147	147	147	147	147	147	147	147	147	147	147
13 Package data															
13.1 -Net weight of each unit	Kg	1.09	1.28	1.47	1.47	1.66	1.66	1.83	2.03	2.23	2.43	2.59	2.82	3.15	3.35
13.2 -Dimensions (6PCS/CTN)	cm	31x32x23	33x32x23	36x32x23	36x32x23	38x32x23	38x32x23	41x32x23	43x32x23	45x32x23	48x32x23	51x32x23	53x32x23	58x32x23	60x32x23
14 Figure No.		Fig. A13	Fig. A14	Fig. A15	Fig. A15	Fig. A16	Fig. A16	Fig. A17	Fig. A18	Fig. A19	Fig. A20	Fig. A21	Fig. A22	Fig. A23	Fig. A24

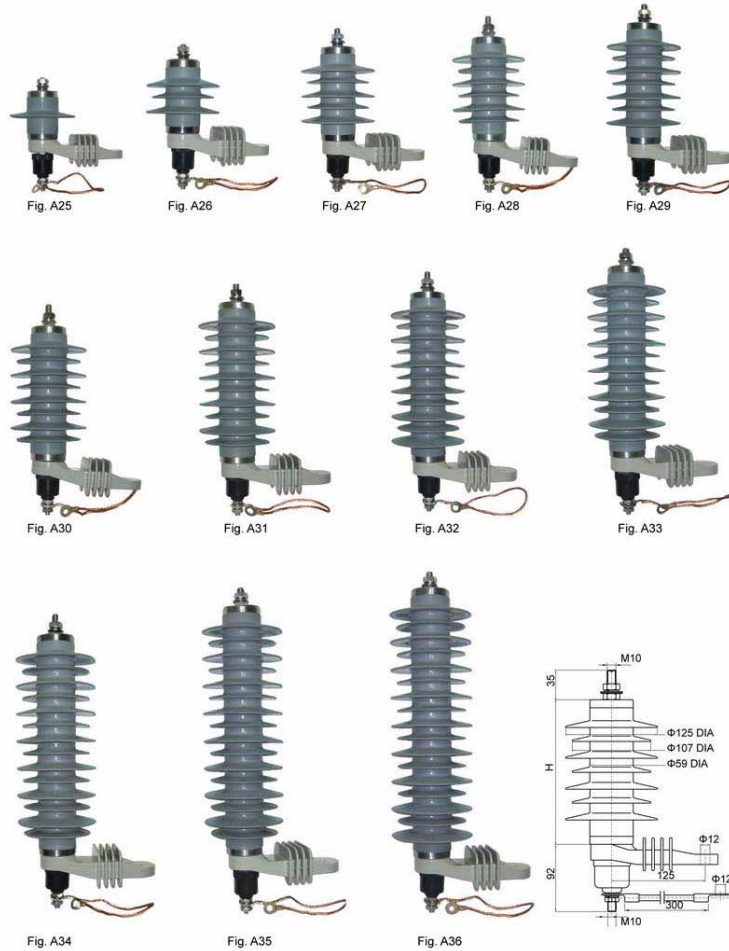


Table 4— Main Technical Parameter of Polymer Housing Metal-oxide Surge Arrester

Nominal Discharge Current: 5kA, Design model: T1

		3	6	9	10	11	12	15	18	21	24	27	30	33	36
Rated Voltage(U _n)	kV	3	6	9	10	11	12	15	18	21	24	27	30	33	36
Nominal discharge current(I _n)	kA	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1 Type		YHSW-3	YHSW-6	YHSW-9	YHSW-10	YHSW-11	YHSW-12	YHSW-15	YHSW-18	YHSW-21	YHSW-24	YHSW-27	YHSW-30	YHSW-33	YHSW-36
2 Maximum continuous operating voltage(U _c)	kV	2.55	5.10	7.65	8.40	9.35	10.20	12.70	15.30	17.00	19.50	22.00	24.40	26.70	29.00
3 Residual voltage at															
3.1 -Lightning impulse 8/20 μs	kV	8.2	16.4	24.6	27.0	29.9	32.8	41.0	45.0	54.0	63.0	72.0	81.0	90.0	99.0
3.2 -Steep current impulse 1/10 μs	kV	9.4	18.8	28.2	30.9	34.3	37.6	47.0	51.5	61.8	72.1	82.4	92.7	103.0	113.3
3.3 -Switching impulse 30/60 μs	kV	7.0	14.0	21.0	22.8	25.4	28.0	35.0	38.0	45.6	53.2	60.8	68.4	76.0	83.6
4 Long duration current impulse withstand															
4.1 -2ms rectangular current withstand	A	250	250	250	250	250	250	250	250	250	250	250	250	250	250
5 Operating duty															
5.1 -4/10 μs high current impulse withstand	kA	65	65	65	65	65	65	65	65	65	65	65	65	65	65
6 Housing insulation withstand															
6.1 -Lightning impulse	kV	40	60	65	75	85	95	105	120	125	135	155	170	185	190
6.2 -Power frequency, (wet)	kV	20	25	30	30	40	40	50	55	58	60	65	70	75	85
7 Partial discharge	pC	< 10													
8 Creepage distance	mm	120	240	369	369	432	432	510	576	693	780	837	975	1122	1188
9 Creepage distance/ rated voltage ratio	mm/kV	40.0	40.0	41.0	36.9	39.3	36.0	34.0	32.0	33.0	32.5	31.0	32.5	34.0	33.0
10 Mechanical section length(Drawing "H")	mm	90	113	157	157	175	175	198	218	259	281	312	343	386	406
11 Shed number	pcs	1	3	5	5	6	6	7	8	10	11	12	14	16	17
12 Mechanical strength															
12.1 -Torsional	Nm	60	60	60	60	60	60	60	60	60	60	60	60	60	60
12.2 -Cantilever	N	147	147	147	147	147	147	147	147	147	147	147	147	147	147
13 Package data															
13.1 -Net weight of each unit	Kg	1.31	1.63	2.09	2.09	2.33	2.33	2.64	2.90	3.34	3.73	3.90	4.34	4.78	5.01
13.2 -Dimensions (EPCS/CTN)	cm	31x41x29	33x41x29	37x41x29	37x41x29	39x41x29	39x41x29	41x41x29	43x41x29	48x41x29	50x41x29	53x41x29	56x41x29	60x41x29	62x41x29
14 Figure No.		Fig. A25	Fig. A26	Fig. A27	Fig. A27	Fig. A28	Fig. A28	Fig. A29	Fig. A30	Fig. A31	Fig. A32	Fig. A33	Fig. A34	Fig. A35	Fig. A36

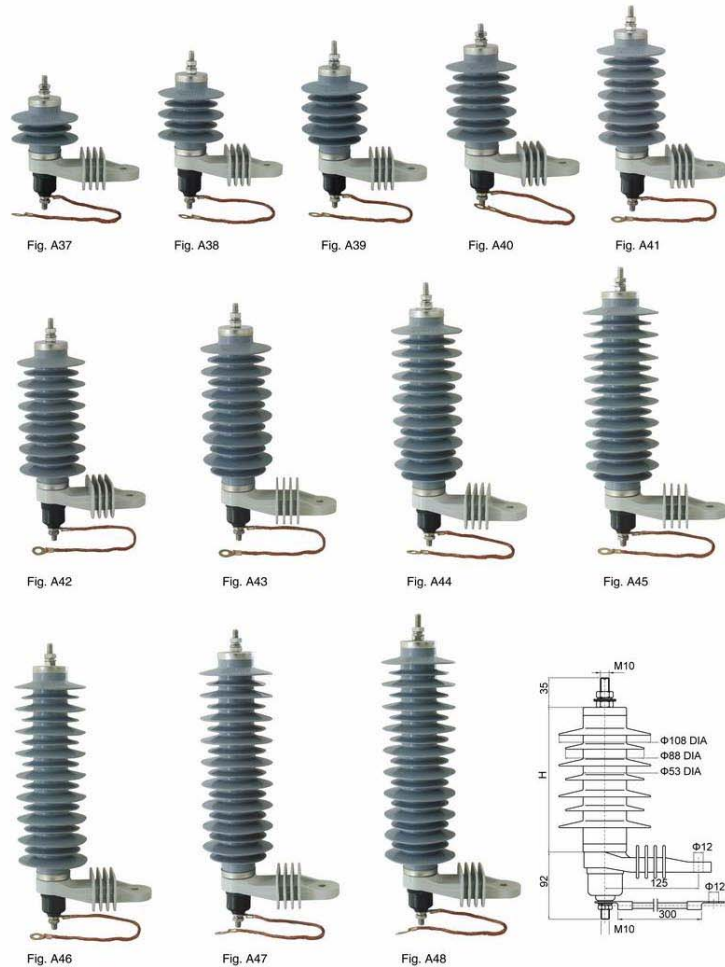


Table 5— Main Technical Parameter of Polymer Housing Metal-oxide Surge Arrester

Nominal Discharge Current: 10kA, Design model: E1

		3	6	9	10	11	12	15	18	21	24	27	30	33	36	
Rated Voltage(U _r)	KV	3	6	9	10	11	12	15	18	21	24	27	30	33	36	
Nominal discharge current(I _n)	kA	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
1	Type	YH10W-3	YH10W-6	YH10W-9	YH10W-10	YH10W-11	YH10W-12	YH10W-15	YH10W-18	YH10W-21	YH10W-24	YH10W-27	YH10W-30	YH10W-33	YH10W-36	
2	Maximum continuous operating voltage(U _c)	kV	2.55	5.10	7.65	8.40	9.35	10.20	12.70	15.30	17.00	19.50	22.00	24.40	26.70	29.00
3	Residual voltage at															
3.1	-Lightning impulse 8/20 μs	kV	9.0	18.0	27.0	30.0	33.0	36.0	45.0	50.0	60.0	70.0	80.0	90.0	99.0	108.0
3.2	-Steep current impulse 1/10 μs	kV	10.3	20.6	30.9	34.5	37.8	41.2	51.5	57.5	69.0	80.5	92.0	103.5	113.8	124.2
3.3	-Switching impulse 30/60 μs	kV	7.6	15.2	22.8	25.5	25.6	30.4	38.0	42.5	51.0	59.5	68.0	76.5	84.1	91.8
3.4	-Switching surge (Peak current)	A	500	500	500	500	500	500	500	500	500	500	500	500	500	500
4	Long duration current impulse withstand															
4.1	-2ms rectangular current withstand	A	200	200	200	200	200	200	200	200	200	200	200	200	200	200
4.2	-Line discharge class (10kA & up)		1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	Operating duty															
5.1	-4/10 μs high current impulse withstand	kA	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6	Housing insulation withstand															
6.1	-Lightning impulse	kV	40	60	65	75	85	95	105	120	125	135	155	170	185	190
6.2	-Power frequency (wet)	kV	20	25	30	30	40	40	50	55	58	60	65	70	75	85
7	Partial discharge	pC	< 10													
8	Creepage distance	mm	154	273	380	380	448	448	567	686	737	856	975	1043	1094	1162
9	Creepage distance/ rated voltage ratio	mm/kV	51.0	45.0	42.0	38.0	40.7	37.7	37.8	38.0	35.0	35.6	36.0	34.7	33.1	32.3
10	Mechanical section length (Drawing "H")	mm	100	135	155	155	170	170	205	240	260	295	330	345	365	380
11	Shed number	pcs	3	5	6	6	7	7	9	11	12	14	16	17	18	19
12	Mechanical strength															
12.1	-Torsional	Nm	60	60	60	60	60	60	60	60	60	60	60	60	60	60
12.2	-Cantilever	N	147	147	147	147	147	147	147	147	147	147	147	147	147	147
13	Package data															
13.1	-Net weight of each unit	Kg	1.19	1.52	1.69	1.69	1.86	1.86	2.19	2.45	2.59	2.92	3.23	3.40	3.57	3.79
13.2	-Dimensions (6PCS/CTN)	cm	32x32x23	35x32x23	37x32x23	37x32x23	39x32x23	39x32x23	42x32x23	46x32x23	46x32x23	51x32x23	55x32x23	56x32x23	58x32x23	60x32x23
14	Figure No.		Fig. A37	Fig. A38	Fig. A39	Fig. A39	Fig. A40	Fig. A40	Fig. A41	Fig. A42	Fig. A43	Fig. A44	Fig. A45	Fig. A46	Fig. A47	Fig. A48

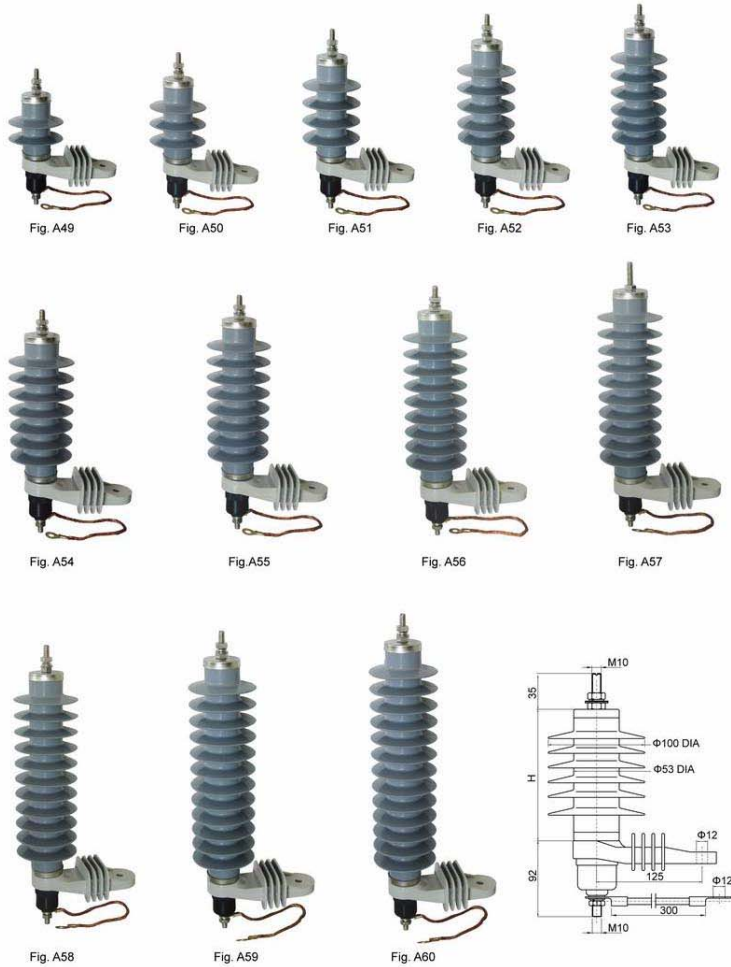


Table 6— Main Technical Parameter of Polymer Housing Metal-oxide Surge Arrester

Nominal Discharge Current: 10kA, Design model: E2

		3	6	9	10	11	12	15	18	21	24	27	30	33	36
Rated Voltage(U _r)	kV	3	6	9	10	11	12	15	18	21	24	27	30	33	36
Nominal discharge current(I _n)	kA	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1 Type		YH10W-3	YH10W-6	YH10W-9	YH10W-10	YH10W-11	YH10W-12	YH10W-15	YH10W-18	YH10W-21	YH10W-24	YH10W-27	YH10W-30	YH10W-33	YH10W-36
2 Maximum continuous operating voltage(U _c)	kV	2.55	5.10	7.65	8.40	9.35	10.20	12.70	15.30	17.00	19.50	22.00	24.40	26.70	29.00
3 Residual voltage at															
3.1 -Lightning impulse 8/20 μs	kV	9.0	18.0	27.0	30.0	33.0	36.0	45.0	50.0	60.0	70.0	80.0	90.0	99.0	108.0
3.2 -Sleep current impulse 1/10 μs	kV	10.3	20.6	30.9	34.5	37.8	41.2	51.5	57.5	69.0	80.5	92.0	103.5	113.8	124.2
3.3 -Switching impulse 30/60 μs	kV	7.6	15.2	22.8	25.5	25.6	30.4	38.0	42.5	51.0	59.5	68.0	76.5	84.1	91.8
3.4 -Switching surge (Peak current)	A	500	500	500	500	500	500	500	500	500	500	500	500	500	500
4 Long duration current impulse withstand															
4.1 -2ms rectangular current withstand	A	200	200	200	200	200	200	200	200	200	200	200	200	200	200
4.2 -Line discharge class (10kA & up)		1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 Operating duty															
5.1 -4/10 μs high current impulse withstand	kA	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6 Housing insulation withstand															
6.1 -Lightning impulse	kV	40	60	65	75	85	95	105	120	125	135	155	170	185	190
6.2 -Power frequency (wet)	kV	20	25	30	30	40	40	50	55	58	60	65	70	75	85
7 Partial discharge	pC	< 10													
8 Creepage distance	mm	164	230	296	296	362	362	428	494	560	626	692	758	825	900
9 Creepage distance/ rated voltage ratio	mm/kV	54.0	38.0	32.8	29.6	32.9	30.0	28.5	27.4	26.7	26.0	25.6	25.2	25.1	25.0
10 Mechanical section length (Drawing "H")	mm	110	135	160	160	185	185	210	235	260	285	310	335	360	385
11 Shed number	pcs	2	3	4	4	5	5	6	7	8	9	10	11	12	13
12 Mechanical strength															
12.1 -Torsional	Nm	60	60	60	60	60	60	60	60	60	60	60	60	60	60
12.2 -Cantilever	N	147	147	147	147	147	147	147	147	147	147	147	147	147	147
13 Package data															
13.1 -Net weight of each unit	Kg	1.13	1.32	1.51	1.51	1.75	1.75	2.01	2.24	2.51	2.69	2.95	3.17	3.38	3.56
13.2 -Dimensions (øPCS/GTN)	cm	33x32x23	36x32x23	36x32x23	36x32x23	40x32x23	40x32x23	43x32x23	45x32x23	46x32x23	50x32x23	53x32x23	55x32x23	56x32x23	60x32x23
14 Figure No.		Fig. A37	Fig. A38	Fig. A39	Fig. A39	Fig. A40	Fig. A40	Fig. A41	Fig. A42	Fig. A43	Fig. A44	Fig. A45	Fig. A46	Fig. A47	Fig. A48

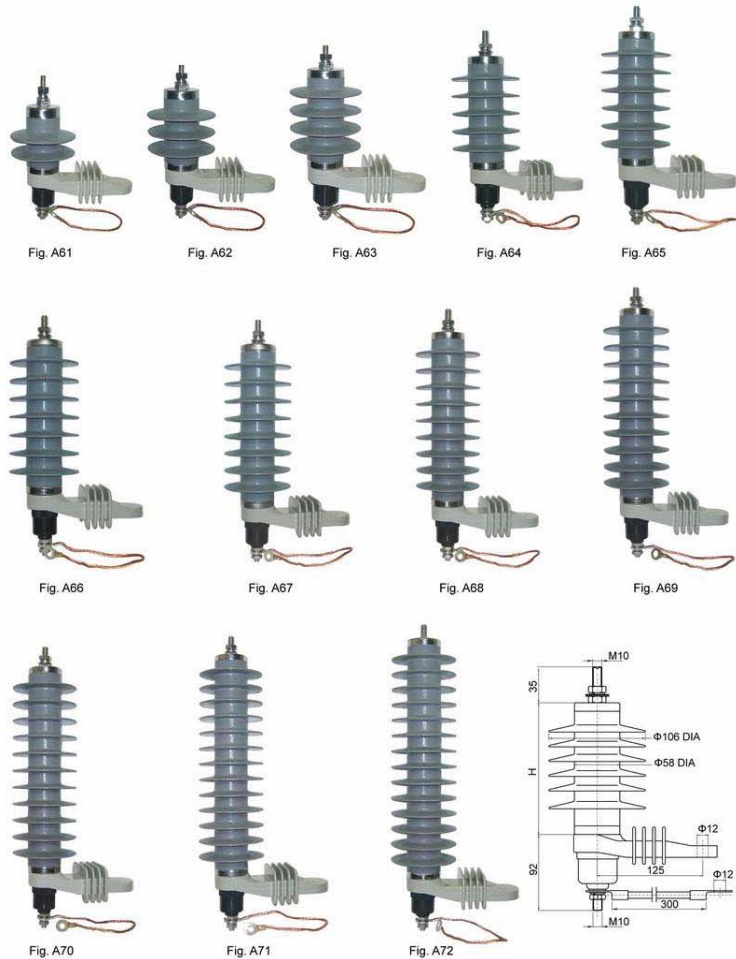


Table 7— Main Technical Parameter of Polymer Housing Metal-Oxide Surge Arrester

Nominal Discharge Current: 10kA, Design model: S1

		3	6	9	10	11	12	15	18	21	24	27	30	33	36	
Rated Voltage(U _r)	kV	3	6	9	10	11	12	15	18	21	24	27	30	33	36	
Nominal discharge current(I _n)	kA	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
1 Type		YH10W-3	YH10W-6	YH10W-9	YH10W-10	YH10W-11	YH10W-12	YH10W-15	YH10W-18	YH10W-21	YH10W-24	YH10W-27	YH10W-30	YH10W-33	YH10W-36	
2 Maximum continuous operating voltage(U _c)	kV	2.55	5.10	7.65	8.40	9.35	10.20	12.70	15.30	17.00	19.50	22.00	24.40	26.70	29.00	
3 Residual voltage at																
3.1 -Lightning impulse 8/20 μs	kV	8.8	17.6	26.4	29.4	32.3	35.2	44.0	49.0	58.8	68.6	78.4	88.2	98.0	107.8	
3.2 -Steep current impulse 1/10 μs	kV	10.1	20.2	30.3	33.6	37.0	40.4	50.5	56.0	67.2	78.4	89.6	100.8	112.0	123.2	
3.3 -Switching impulse 30/60 μs	kV	7.4	14.8	22.2	24.9	25.6	29.6	37.0	41.5	49.8	58.1	66.4	74.7	83.0	91.3	
3.4 -Switching surge (Peak current)	A	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
4 Long duration current impulse withstand																
4.1 -2ms rectangular current withstand	A	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
4.2 -Line discharge class (10kA & up)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5 Operating duty																
5.1 -4/10 μs high current impulse withstand	kA	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
6 Housing insulation withstand																
6.1 -Lightning impulse	kV	40	60	85	75	85	95	105	120	125	135	155	170	185	190	
6.2 -Power frequency, (wet)	kV	20	25	30	30	40	40	50	55	58	60	65	70	75	85	
7 Partial discharge	pC	< 10														
8 Creepage distance	mm	146	211	276	276	341	341	406	471	536	601	675	750	861	926	
9 Creepage distance/ rated voltage ratio	mm/kV	48.0	35.0	30.0	27.6	31.0	28.4	27.0	26.0	25.5	25.0	25.0	25.0	26.0	25.7	
10 Mechanical section length Drawing "H"	mm	85	110	135	135	160	160	185	210	235	260	285	310	360	385	
11 Shed number	pcs	2	3	4	4	5	5	6	7	8	9	10	11	12	13	
12 Mechanical strength																
12.1 -Torsional	Nm	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
12.2 -Cantilever	N	147	147	147	147	147	147	147	147	147	147	147	147	147	147	
13 Package data																
13.1 -Net weight of each unit	Kg	1.19	1.52	1.69	1.69	1.99	1.99	2.32	2.63	2.93	3.18	3.33	3.68	4.00	4.27	
13.2 -Dimensions (6PCS/CTN)	cm	31x32x23	33x32x23	36x32x23	36x32x23	38x32x23	38x32x23	41x32x23	43x32x23	45x32x23	48x32x23	51x32x23	53x32x23	58x32x23	60x32x23	
14 Figure No.		Fig. A61	Fig. A62	Fig. A63	Fig. A63	Fig. A64	Fig. A64	Fig. A65	Fig. A65	Fig. A66	Fig. A67	Fig. A68	Fig. A69	Fig. A70	Fig. A71	Fig. A72

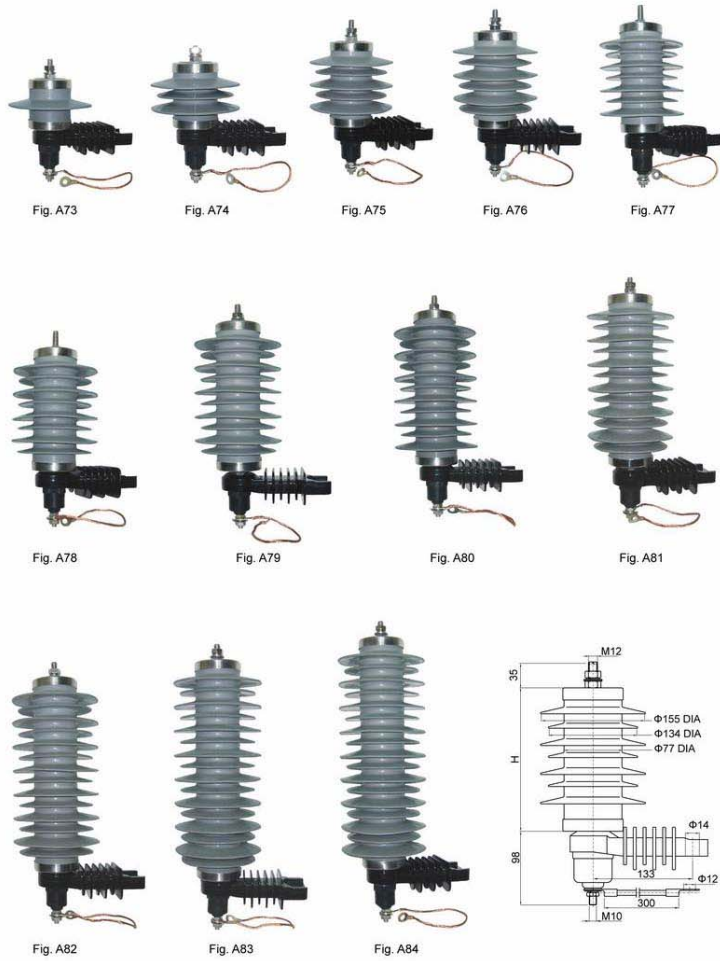


Table 8— Main Technical Parameter of Polymer Housing Metal-oxide Surge Arrester

Nominal Discharge Current: 10kA, Design model: T1

		3	6	9	10	11	12	15	18	21	24	27	30	33	36
Rated Voltage(U)	kV	3	6	9	10	11	12	15	18	21	24	27	30	33	36
Nominal discharge current(I _n)	kA	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1 Type		YH10W-3	YH10W-6	YH10W-9	YH10W-10	YH10W-11	YH10W-12	YH10W-15	YH10W-18	YH10W-21	YH10W-24	YH10W-27	YH10W-30	YH10W-33	YH10W-36
2 Maximum continuous operating voltage(U _c)	kV	2.55	5.10	7.65	8.40	9.35	10.20	12.70	15.30	17.00	19.50	22.00	24.40	26.70	29.00
3 Residual voltage at															
3.1 -Lighting impulse 8/20 μs	kV	8.6	17.2	25.8	28.5	31.4	34.4	43.0	47.5	57.0	66.5	76.0	85.5	95.0	104.5
3.2 -Steep current impulse 1/10 μs	kV	9.8	19.6	29.4	32.7	35.9	39.2	49.0	54.5	65.4	76.3	87.2	98.1	109.0	120.0
3.3 -Switching impulse 30/60 μs	kV	7.3	14.6	21.9	24.0	26.6	29.2	36.5	40.0	48.0	56.0	64.0	72.0	80.0	88.0
3.4 -Switching surge (Peak current)	A	500	500	500	500	500	500	500	500	500	500	500	500	500	500
4 Long duration current impulse withstand															
4.1 -2ms rectangular current withstand	A	450	450	450	450	450	450	450	450	450	450	450	450	450	450
4.2 -Line discharge class (10kA & up)		1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 Operating duty															
5.1 -4/10 μs high current impulse withstand	kA	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6 Housing insulation withstand															
6.1 -Lighting impulse	kV	40	60	65	75	85	95	105	120	125	135	155	170	185	190
6.2 -Power frequency (wet)	kV	20	25	30	30	40	40	50	55	58	60	65	70	75	85
7 Partial discharge	pC	< 10													
8 Creepage distance	mm	120	261	414	414	480	480	570	630	788	888	945	1095	1254	1350
9 Creepage distance/rated voltage ratio	mm/kV	40.0	43.5	46.0	41.4	43.6	40.0	38.0	35.0	37.5	37.0	35.0	36.5	38.0	37.5
10 Mechanical section length (Drawing "H")	mm	93	113	155	155	174	174	198	217	258	281	304	343	384	408
11 Shed number	pcs	1	3	5	5	6	6	7	8	10	11	12	14	16	17
12 Mechanical strength															
12.1 -Torsional	Nm	70	70	70	70	70	70	70	70	70	70	70	70	70	70
12.2 -Cantilever	N	294	294	294	294	294	294	294	294	294	294	294	294	294	294
13 Package data															
13.1 -Net weight of each unit	Kg	2.05	2.26	3.34	3.34	3.68	3.68	4.27	4.57	5.33	5.86	6.27	7.04	7.72	8.35
13.2 -Dimensions (6PCS/CTN)	cm	31x48x34	33x48x34	37x48x34	37x48x34	39x48x34	39x48x34	41x48x34	43x48x34	46x48x34	50x48x34	53x48x34	56x48x34	60x48x34	62x48x34
14 Figure No.		Fig. A73	Fig. A74	Fig. A75	Fig. A75	Fig. A76	Fig. A76	Fig. 77	Fig. A78	Fig. A79	Fig. A80	Fig. A81	Fig. A82	Fig. A83	Fig. A84