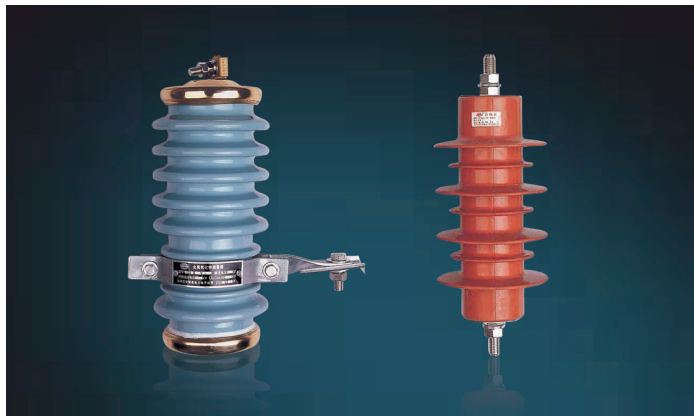


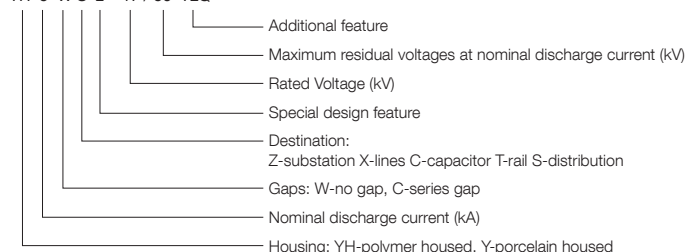
ABB High Voltage Products

10KV Metal-oxide Surge Arresters



Type details

YH 5 W S 2 - 17 / 50 TLQ



Application

ABB surge arresters are the primary protection against atmospheric and switching over voltages. They are generally connected in parallel with the equipment to be protected to divert the surge current.

Advantages

- Long service life
- Maintenance free
- Long protection distance
- Low leakage current

Service Conditions

- Temperature: $-40^{\circ}\text{C} \sim 40^{\circ}\text{C}$
- Altitude : $\leq 1000 \text{ m}$
- Power frequency: $48 \sim 62 \text{ Hz}$
- Earthquake intensities: up to 7.0
- Withstand winds : up to 35 m/s
- Ice thickness: up to 20mm

Application details

Type	Distribution station	Substations	Lines	Generators	Capacitors	Motors	Rail
YH5WS-17/50	●						
YH5WS-17/50TLQ	●						
YH5WZ-17/45		●					
YH5WZ-17/45TLQ		●					
Y5WZ-17/45		●					
Y5WZ-17/45FT		●					
Y5WS-17/50	●						
Y5WS-17/50FT	●						

For more types and applications, please contact ABB Silver Star Shenzhen Surge Arrester Co.,Ltd.

Construction

Type	Silicone polymer-housed	Porcelain-housed	Gap	Disconnecter	Grading hood
YH5WS-17/50	●				
YH5WS-17/50TLQ	●			●	
YH5WZ-17/45	●				
YH5WZ-17/45TLQ	●			●	
Y5WZ-17/45		●			
Y5WZ-17/45FT		●		●	
Y5WS-17/50		●			
Y5WS-17/50FT		●		●	

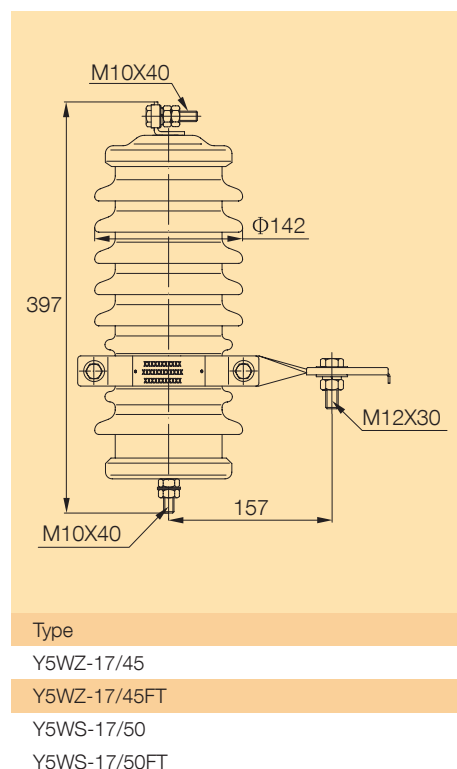
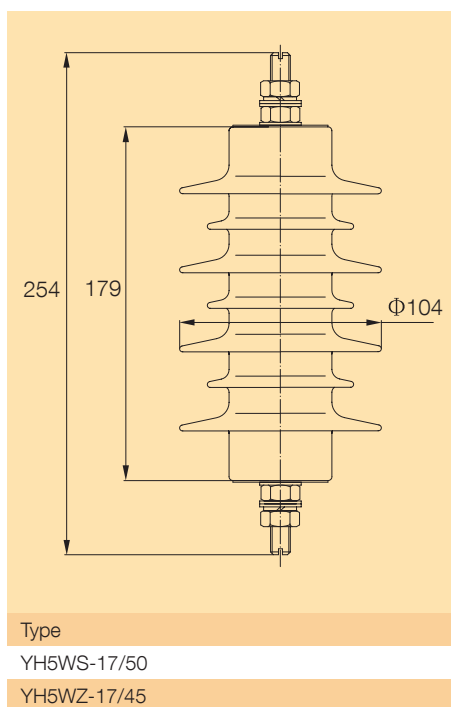
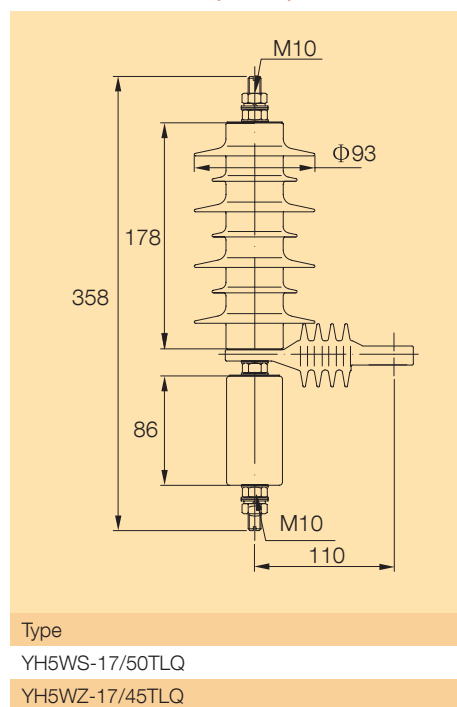
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Technical data

Type	Rated voltage	Continuous operating voltage	Nominal discharge current	Maximum residual voltages at 8/20 μ s 10	Long duration Current impulse 2 ms	Reference voltage at D.C 1mA	Leakage current at 75% D.C reference voltage	Internal partial discharge	Leakage distance	Height H	Weight	Mounting
	Ur	Uc	In	kA m	A	kV	μ A	PC	mm/kV	mm	kg	
YH5WS-17/50	17	13.6	5	50	300	25	≤ 50	≤ 10	34	254	1.3	Bracket
YH5WS-17/50TLQ	17	13.6	5	50	150	25	≤ 50	≤ 10	33	358	1.1	Bracket
YH5WZ-17/45	17	13.6	5	45	300	24	≤ 50	≤ 10	34	254	1.3	Bracket
YH5WZ-17/45TLQ	17	13.6	5	45	150	24	≤ 50	≤ 10	33	358	1.1	Bracket
Y5WZ-17/45	17	13.6	5	45	200	24	≤ 50	≤ 10	42	397	9.4	Bracket
Y5WZ-17/45FT	17	13.6	5	45	200	24	≤ 50	≤ 10	42	397	9.8	Bracket
Y5WS-17/50	17	13.6	5	50	200	25	≤ 50	≤ 10	42	397	9.6	Bracket
Y5WS-17/50FT	17	13.6	5	50	200	25	≤ 50	≤ 10	42	397	10	Bracket

Dimensions detail (in mm)



Contact US

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ABB High Voltage Products

110KV Metal-oxide Surge Arresters



Application

ABB surge arresters are the primary protection against atmospheric and switching over voltages. They are generally connected in parallel with the equipment to be protected to divert the surge current.

Advantages

Long service life
Maintenance free
Long protection distance
Low leakage current

Service Conditions

Temperature: -40°C ~ 40°C
Altitude : ≤ 1000 m
Power frequency : 48 ~ 62 Hz
Earthquake intensities: up to 7.0
Withstand winds : up to 35 m/s
Ice thickness: up to 20mm

Type details

YH 10 W X 0 – 108 / 281 TLQ

- Additional feature
- Maximum residual voltages at nominal discharge current (kV)
- Rated Voltage (kV)
- Special design feature
- Destination: Z-substation X-lines C-capacitor T-rail S-distribution
- Gaps: W-no gap, C-series gap
- Nominal discharge current (kA)
- Housing: YH-polymer housed, Y-porcelain housed

Application details

Type	Substations	Lines	Generators	Capacitors	Motors	Rail	GIS
YH10WX-108/281TLQ		●					
YH10CX1-96/280J		●					
YH10WZ-102/266	●						
YH10WZ-108/281	●						
Y10WZ-108/281	●						
Y10WF-102/265	●						● Three-phase configuration
Y10WF-100/260S	●						● Single-phase configuration

For more types and applications, please contact ABB Silver Star Shenzhen Surge Arrester Co.,Ltd.

Construction

Type	Silicone polymer-housed	Porcelain-housed	Metal-housed	Gap	Disconnecter	Grading hood
YH10WX-108/281TLQ	●				●	
YH10CX1-96/280J	●			●		●
YH10WZ-102/266	●					
YH10WZ-108/281	●					
Y10WZ-108/281		●				
Y10WF-102/265			●			
Y10WF-100/260S			●			

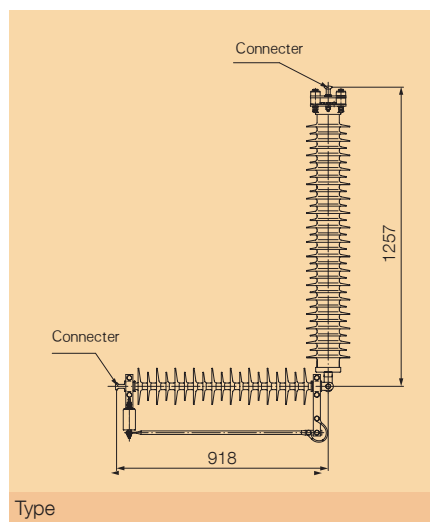
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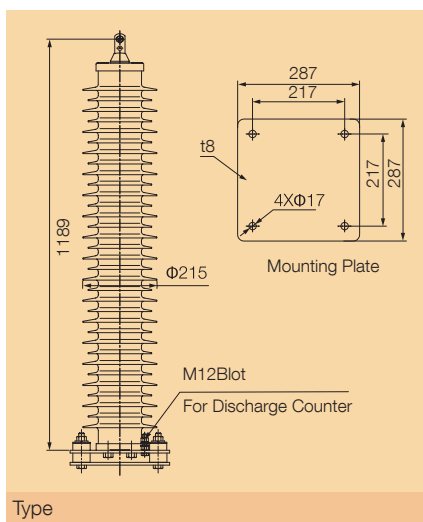
Technical data

Type	Rated voltage	Continuous operating voltage	Nominal discharge current	Maximum residual voltages at 8/20 μ s 10	Long duration Current impulse 2 ms	Reference voltage at D.C 1mA	Leakage current at 75% D.C reference voltage	Internal partial discharge	Leakage distance	Height H	Weight	Mounting
	Ur kV	Uc kV	In kA	kV m	A	kV	μ A	PC	mm/kV	mm	kg	
YH10WX-108/281TLQ	108	84	10	281	600	157	≤ 50	≤ 10	25	1257	36	Suspension
YH10CX1-96/280J	96	75	10	280	600	140	≤ 50	≤ 10	20	1941	31	Suspension
YH10WZ-102/266	102	79.6	10	266	600	148	≤ 50	≤ 10	25	1189	42	Seat
YH10WZ-108/281	108	84	10	281	800	157	≤ 50	≤ 10	25	1189	45	Seat
Y10WZ-108/281	108	84	10	281	800	157	≤ 50	≤ 10	32	1743	179	Seat
Y10WF-102/265	102	81.6	10	265	800	155	≤ 50	≤ 10		1600	150	
Y10WF-100/260S	100	80	10	260	1200	148	≤ 50	≤ 10		1750	470	

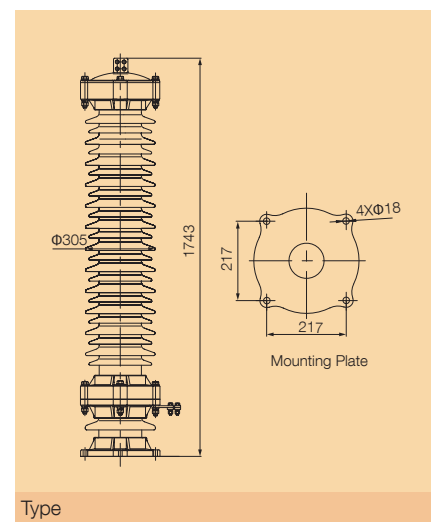
Dimensions detail (in mm)



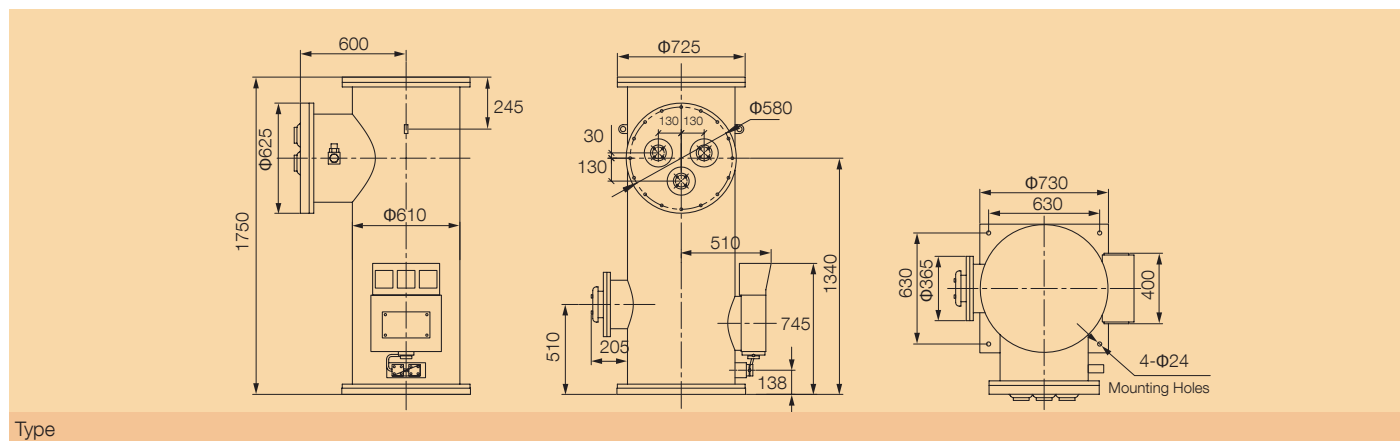
Type YH10WX-108/281TLQ



Type YH10WZ-102/266
YH10WZ-108/281



Type Y10WZ-108/281



Type Y10WF-100/260S

Contact US

ABB Silver Star Shenzhen Surge Arrester Co., Ltd.

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ABB High Voltage Products

220KV Metal-oxide Surge Arresters



Application

ABB surge arresters are the primary protection against atmospheric and switching over voltages. They are generally connected in parallel with the equipment to be protected to divert the surge current.

Advantages

Long service life
Maintenance free
Long protection distance
Low leakage current

Service Conditions

Temperature: -40°C ~ 40°C
Altitude : ≤ 1000 m
Power frequency : 48 ~ 62 Hz
Earthquake intensities: up to 7.0
Withstand winds : up to 35 m/s
Ice thickness: up to 20mm

Type details

YH 10 W X 0-216 / 562 TLQ

- Additional feature
- Maximum residual voltages at nominal discharge current (kV)
- Rated Voltage (kV)
- Special design feature
- Destination: Z-substation X-lines C-capacitor T-rail S-distribution
- Gaps: W-no gap, C-series gap
- Nominal discharge current (kA)
- Housing: YH-polymer housed, Y-porcelain housed

Application details

Type	Substations	Lines	Generators	Capacitors	Motors	Rail	GIS
YH10WX-216/562TLQ		●					
YH10CX1-192/560J		●					
YH10WZ-216/562	●						
Y10WZ-216/562	●						
Y10WF-200/520							● Single-phase configuration

For more types and applications, please contact ABB Silver Star Shenzhen Surge Arrester Co.,Ltd.

Construction

Type	Silicone polymer-housed	Porcelain-housed	Metal-housed	Gap	Disconnecter	Grading hood
YH10WX-216/562TLQ	●				●	●
YH10CX1-192/560J	●			●		●
YH10WZ-216/562	●					●
Y10WZ-216/562		●				●
Y10WF-200/520			●			

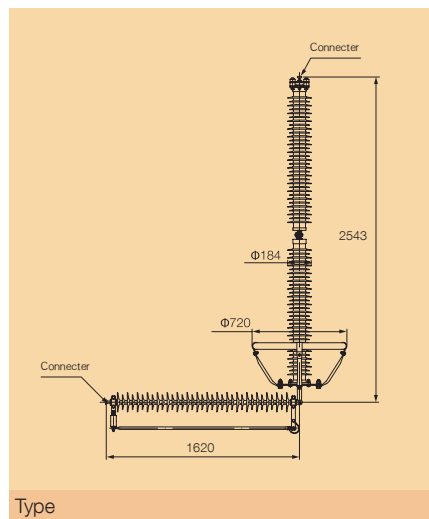
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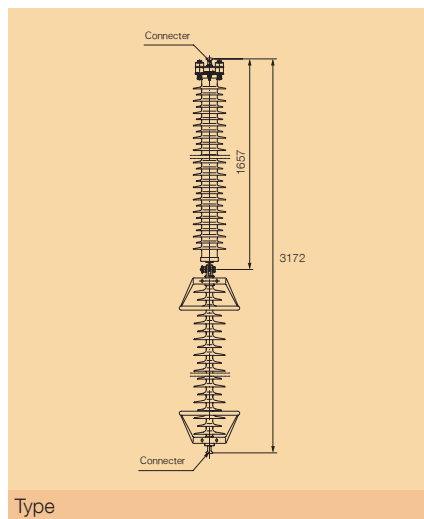
Technical data

Type	Rated voltage	Continuous operating voltage	Nominal discharge current	Maximum residual voltages at 8/20 μ s 10	Long duration Current impulse 2 ms	Reference voltage at D.C 1mA	Leakage current at 75% D.C reference voltage	Internal partial discharge	Leakage distance	Height H	Weight	Mounting
	Ur	Uc	In	kA m	A	kV	μ A	PC	mm/kV	mm	kg	
YH10WX-216/562TLQ	216	168	10	562	800	314	≤ 50	≤ 10	25	2543	56	Suspension
YH10CX1-192/560J	192	153.6	10	560	800	280	≤ 50	≤ 10	18	3172	54	Suspension
YH10WZ-216/562	216	168.5	10	562	800	314	≤ 50	≤ 10	25	2312	85	Seat
Y10WZ-216/562	216	168.5	10	562	800	314	≤ 50	≤ 10	28	3310	325	Seat
Y10WF-200/520	200	156	10	520	800	304	≤ 50	≤ 10		1603	180	

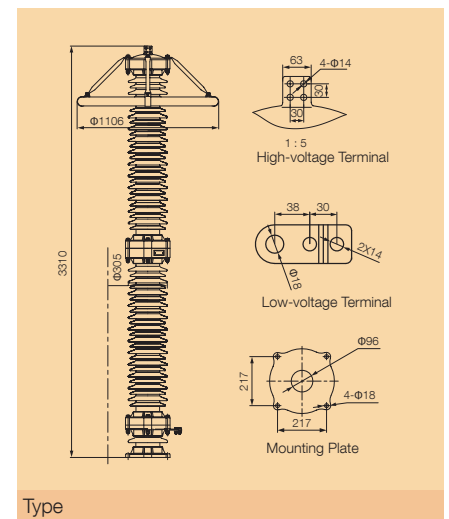
Dimensions detail (in mm)



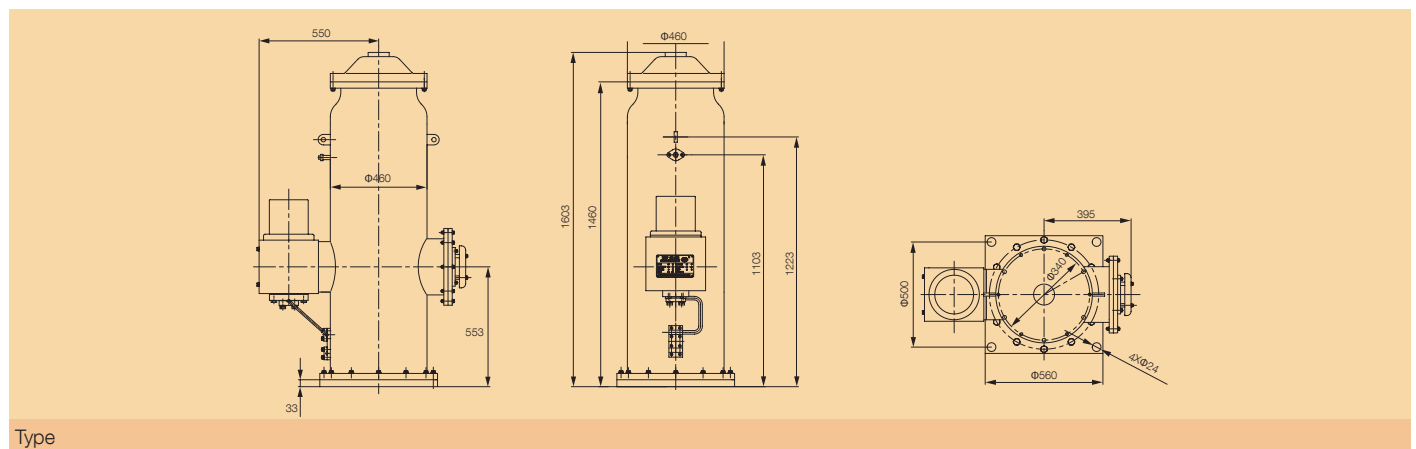
Type
YH10WX-216/562TLQ



Type
YH10CX1-192/560J



Type
Y10WZ-216/562



Type
Y10WF-200/520

Contact US

ABB Silver Star Shenzhen Surge Arrester Co., Ltd.

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ABB High Voltage Products

27.5-35KV Metal-oxide Surge Arresters



Application

ABB surge arresters are the primary protection against atmospheric and switching over voltages. They are generally connected in parallel with the equipment to be protected to divert the surge current.

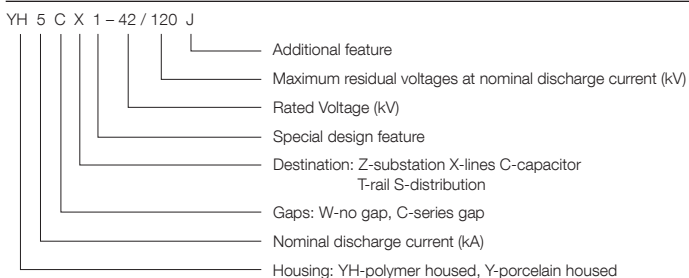
Advantages

Long service life
Maintenance free
Long protection distance
Low leakage current

Service Conditions

Temperature: $-40^{\circ}\text{C} \sim 40^{\circ}\text{C}$
Altitude : $\leq 1000 \text{ m}$
Power frequency : $48 \sim 62 \text{ Hz}$
Earthquake intensities: up to 7.0
Withstand winds : up to 35 m/s
Ice thickness: up to 20 mm

Type details



Application details

Type	Distribution station	Substations	Lines	Generators	Capacitors	Motors	Rail
YH5WT-42/120							●
YH5WX-54/142TLQ			●				
YH5CX1-42/120J			●				
YH5WZ-51/134		●					
Y5WZ-51/134		●					

For more types and applications, please contact ABB Silver Star Shenzhen Surge Arrester Co.,Ltd.

Construction

Type	Silicone polymer-housed	Porcelain-housed	Gap	Disconnecter	Grading hood
YH5WT-42/120	●				
YH5WX-54/142TLQ	●			●	
YH5CX1-42/120J	●		●		
YH5WZ-51/134	●				
Y5WZ-51/134		●			

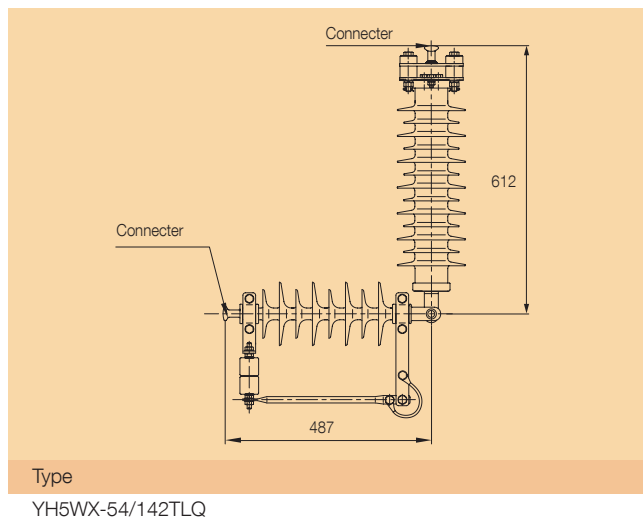
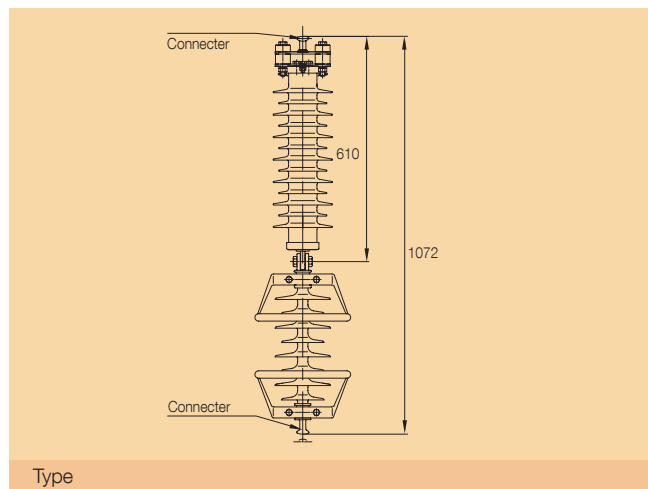
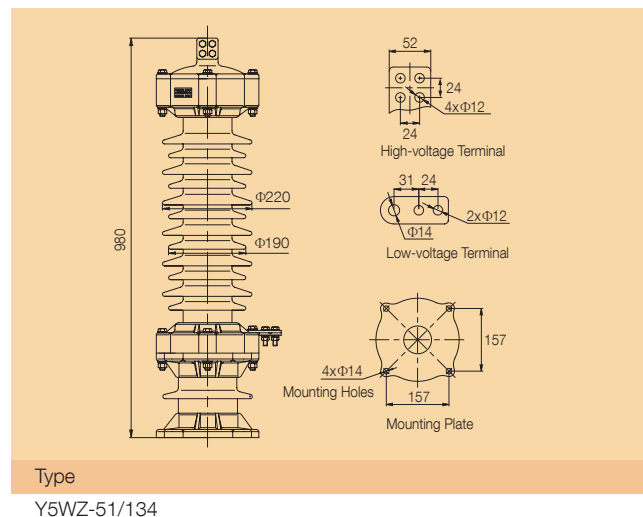
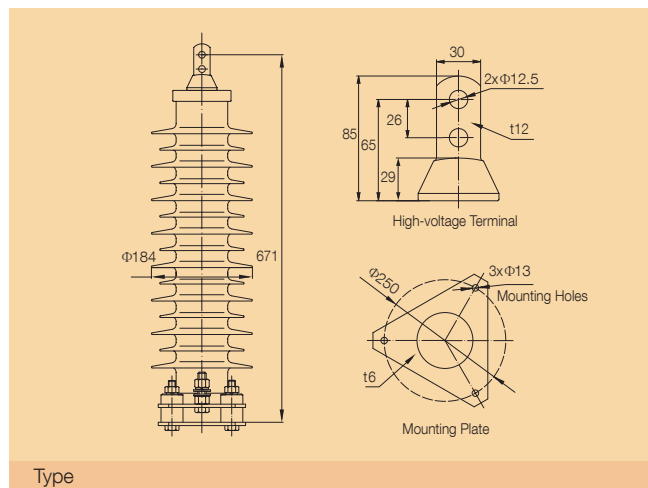
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Technical data

Type	Rated voltage	Continuous operating voltage	Nominal discharge current	Maximum residual voltages at 8/20 μ s 10 kA m	Long duration Current impulse 2 ms	Reference voltage at D.C 1mA	Leakage current at 75% D.C reference voltage	Internal partial discharge	Leakage distance	Height H	Weight	Mounting
	Ur	Uc	In	kV	A	kV	μ A	PC	mm/kV	mm	kg	
YH5WT-42/120	42	34	5	120	600	65	≤ 50	≤ 10	37	671	15	Seat
YH5WX-54/142TLQ	54	43.2	5	142	300	77	≤ 50	≤ 10	31	612	19	Suspension
YH5CX1-42/120J	42	34	5	120	400	60	≤ 50	≤ 10	31	1072	17	Suspension
YH5WZ-51/134	51	40.8	5	134	400	73	≤ 50	≤ 10	31	598	13	Seat
Y5WZ-51/134	51	40.8	5	134	400	73	≤ 50	≤ 10	32	980	62	Seat

Dimensions detail (in mm)



Contact US

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ABB High Voltage Products

500KV Metal-oxide Surge Arresters



Application

ABB surge arresters are the primary protection against atmospheric and switching over voltages. They are generally connected in parallel with the equipment to be protected to divert the surge current.

Advantages

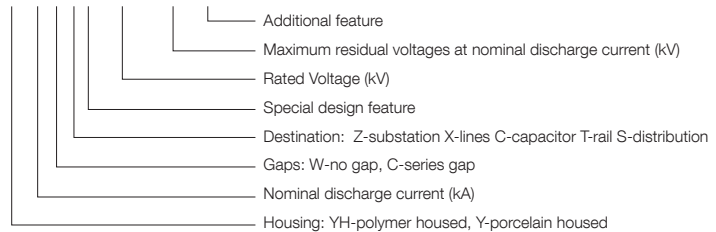
Long service life
Maintenance free
Long protection distance
Low leakage current

Service Conditions

Temperature: -40°C ~ 40°C
Altitude : ≤ 1000 m
Power frequency: 48 ~ 62 Hz
Earthquake intensities: up to 7.0
Withstand winds : up to 35 m/s
Ice thickness: up to 20mm

Type details

YH 20 W X 0 - 444 / 1106 TLQ



Application details

Type	Substations	Lines	Generators	Capacitors	Motors	Rail
YH20CX1-396/1050J		●				
YH20CX2-396/1050K		●				
YH20WX-444/1106		●				
YH20WX-468/1166		●				
YH20WX-444/1106TLQ		●				
YH20WX-468/1166TLQ		●				
Y20WZ-420/1046	●					
Y20WZ-444/1106	●					

For more types and applications, please contact ABB Silver Star Shenzhen Surge Arrester Co.,Ltd.

Construction

Type	Silicone polymer-housed	Porcelain-housed	Gap	Disconnecter	Grading hood
YH20CX1-396/1050J	●		●		●
YH20CX2-396/1050K	●		●		
YH20WX-444/1106	●				●
YH20WX-468/1166	●				●
YH20WX-444/1106TLQ	●			●	●
YH20WX-468/1166TLQ	●			●	●
Y20WZ-420/1046		●			●
Y20WZ-444/1106		●			●

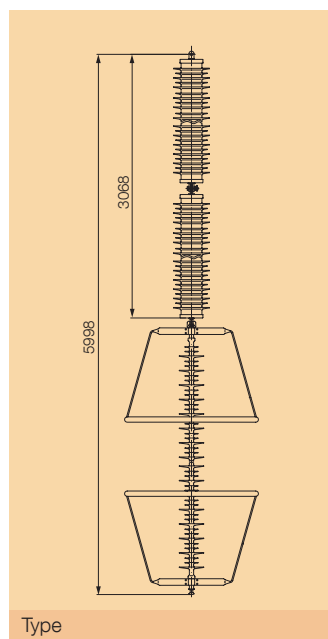
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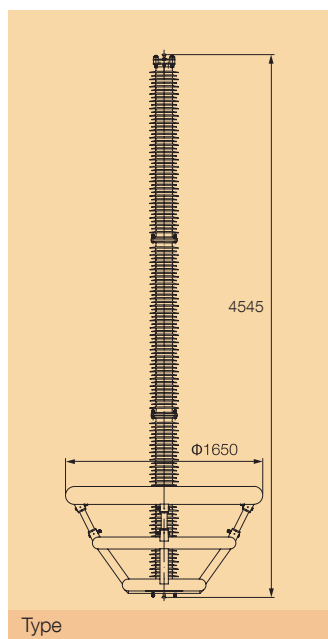
Technical data

Type	Rated voltage	Continuous operating voltage	Nominal discharge current	Maximum residual voltages at 8/20 μ s 10	Long duration Current impulse 2 ms	Reference voltage at D.C 1mA	Leakage current at 75% D.C reference voltage	Internal partial discharge	Leakage distance	Height H	Weight	Mounting
	Ur	Uc	In	kA m	A	kV	μ A	PC	mm/kV	mm	kg	
YH20CX1-396/1050J	396	316.8	20	1050	1200	561	≤ 50	≤ 10	18	5998	176	Suspension
YH20CX2-396/1050K	396	316.8	20	1050	1200	561	≤ 50	≤ 10	18	3018	169	Suspension
YH20WX-444/1106	444	324	20	1106	1500	597	≤ 50	≤ 10	26	4545	303	Suspension
YH20WX-468/1166	468	330	20	1166	1500	630	≤ 50	≤ 10	26	4545	308	Suspension
YH20WX-444/1106TLQ	444	324	20	1106	1500	597	≤ 50	≤ 10	26	4545	307	Suspension
YH20WX-468/1166TLQ	468	330	20	1166	1500	630	≤ 50	≤ 10	26	4545	312	Suspension
Y20WZ-420/1046	420	318	20	1046	2500	565	≤ 50	≤ 10	29	5854	2003	Seat
Y20WZ-444/1106	444	324	20	1106	2500	597	≤ 50	≤ 10	29	5854	2007	Seat

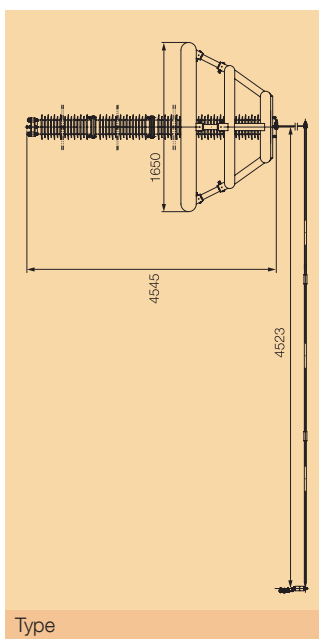
Dimensions detail (in mm)



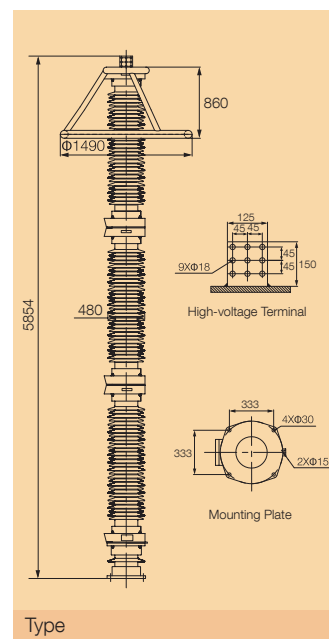
Type
YH20CX1-396/1050J



Type
YH20WX-444/1106
YH20WX-468/1166



Type
YH20WX-444/1106TLQ
YH20WX-468/1166TLQ



Type
Y20WZ-420/1046
Y20WZ-444/1106

Contact US

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