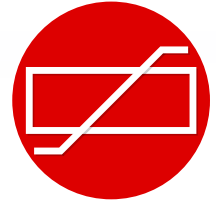


Transmission Line Arrester

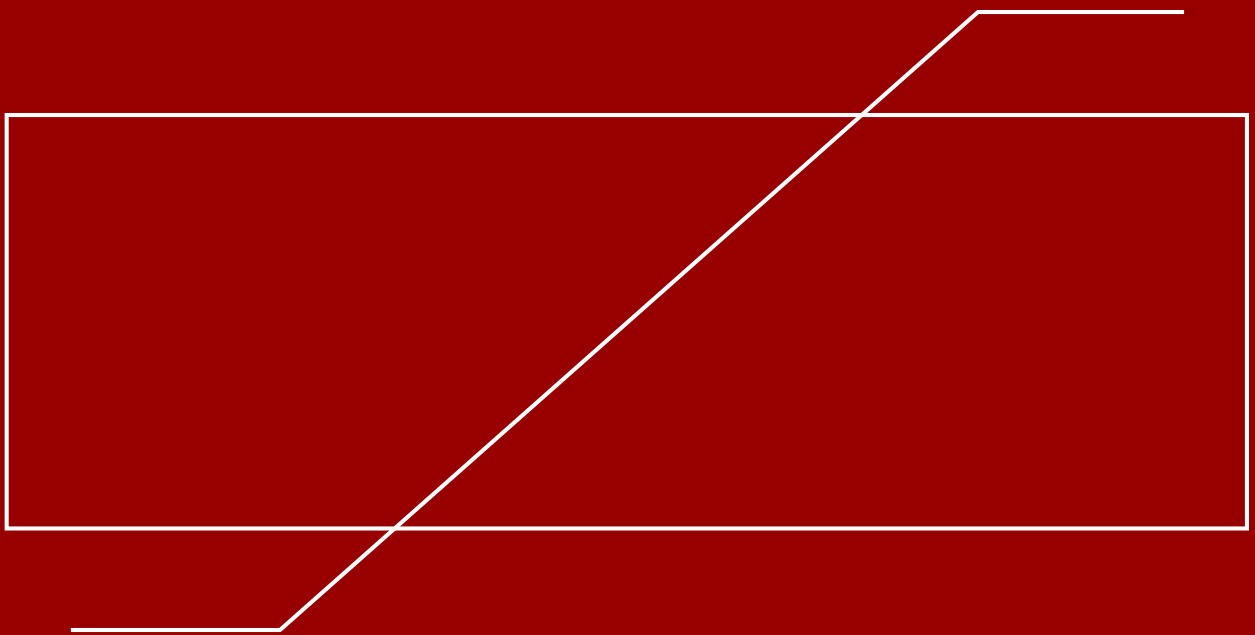


**OBLUM**  
50 YEARS OF EXCELLENCE

# Pioneering Cutting-Edge Solutions for Tomorrow



Powering Progress for Over Half a Century: We've been at the forefront of electrical polymer surge arresters manufacturing, continuously innovating for 50+ years, delivering solutions that energize the world.





# Global Presence

Oblum business operations are present in multiple geographies across the globe. We are committed to our vision of driving positive change in the environment and in the lives of people.



# Transmission Line Arrester (72kv)

S No	Description	72kV 10kA SM
	<b>Model</b>	<b>PBC</b>
1	Highest system voltage kV rms	72.5
2	Nominal system voltage kVrms	66
3	Ur –Rated voltage kVrms	72
4	Uc –MCOV(kVrms)	57
5	In –NDC (8/20µs) kA	10
6	Arrester classification	Station Low duty
7	Qrs(IEC 99-4 Ed.3) in coulomb	1
8	Wth (IEC 99-4 Ed.3) in kJ/kV	4
9	Qth (IEC 99-4 Ed.3) in coulomb	
10	Max RDV kVp	
	a) 5kA	180
	b) 10kA	192
	c) 20kA	204
11	Max. Switch. Imp. R.V.(kVp)	154
	a) 500A	
	b) 1000A	
	c) 2000A	
12	Max. Steep Current impulse RDV(kVp) at NDC	204
13	High current impulse withstand value (4/10 µs) kA	100
14	TOV (kVp)	
	i. 0.1	127
	ii. 1.0Sec	122
	iii. 10.0Sec	117
	iv. 100.0Sec	111
15	Short circuit current kA	40
16	Insulation Withstand	
	a) Lightning Impulse (kVp)	As per IEC 60099-4 2014
	b) Power frequency kVrms	As per IEC 60099-4 2014
	c) Switching Imp (Wet)(kVp)	NA
17	Rated frequency (Hz)	48 to 62
18	Leakage current	
	a. IR at MCOV in µA	Less than 400
	b. IC at MCOV in mA	About 1.2
19	Reference voltage in Volt at Reference current in mA	> 72kV at 2mA
20	Partial discharge P.D	10pC
21	Creepage distance–mm (min) Phase to Phase	25mm/kV /31mm/kV (as applicable)
22	Max. Cantilever strength of arrester Kg	150

# Transmission Line Arrester (108kv)

S No	Description	108kV 10kA SL (TLA)
	<b>Model</b>	<b>PBC</b>
1	Highest system voltage kV rms	145
2	Nominal system voltage kVrms	110
3	Ur –Rated voltage kVrms	108
4	Uc –MCOV(kVrms)	86.4
5	In –NDC (8/20µs) kA	10
6	Arrester classification	Station Low duty
7	Qrs(IEC 99-4 Ed.3) in coulomb	1
8	Wth (IEC 99-4 Ed.3) in kJ/kV	4
9	Qth (IEC 99-4 Ed.3) in coulomb	
10	Max RDV kVp	
	a)5kA	270
	b)10kA	288
	c)20kA	306
11	Max. Switch. Imp. R.V.(kVp)	
	a)500A	230
	b)1000A	
	c) 2000A	
12	Max. Steep Current impulse RDV(kVp) at NDC	306
13	High current impulse withstand value (4/10 µs) kA	100
14	TOV (kVp)	
	i. 0.1	190
	ii.1.0Sec	183
	iii. 10.0Sec	175
	iv. 100.0Sec	167
15	Short circuit current kA	40
16	Insulation Withstand	
	a)Lightning Impulse (kVp)	As per IEC 60099-4 2014
	b)Power frequency kVrms	As per IEC 60099-4 2014
	c)Switching Imp (Wet)(kVp)	NA
17	Rated frequency (Hz)	48 to 62
18	Leakage current	
	a.IR at MCOV in µA	Less than 400
	b. IC at MCOV in mA	About 1.2
19	Reference voltage in Volt at Reference current in mA	> 108kV at 2mA
20	Partial discharge P.D	10pC
21	Creepage distance–mm (min) Phase to Phase	25mm/kV /31mm/kV (as applicable)
22	Max. Cantilever strength of arrester Kg	150

# Transmission Line Arrester (141kv)

S No	Description	141kV 10kA SL (TLA)
	<b>Model</b>	<b>PBC</b>
1	Highest system voltage kV rms	145
2	Nominal system voltage kVrms	132
3	Ur - Rated voltage kVrms	141
4	Uc - MCOV(kVrms)	113
5	In - NDC (8/20µs) kA	10
6	Arrester classification	Station Low duty
7	Qrs (IEC 99-4 Ed.3) in coulomb	1
8	Wth (IEC 99-4 Ed.3) in kJ/kV	4
9	Qth (IEC 99-4 Ed.3) in coulomb	
10	Max RDV kVp	
	a) 5kA	350
	b) 10kA	375
	c) 20kA	400
11	Max. Switch. Imp. R.V.(kVp)	
	a) 500A	300
	b) 1000A	
	c) 2000A	
12	Max. Steep Current impulse RDV(kVp) at NDC	400
13	High current impulse withstand value (4/10 µs) kA	100
14	TOV (kVp)	
	i. 0.1	249
	ii. 1.0Sec	239
	iii. 10.0Sec	229
	iv. 100.0Sec	219
15	Short circuit current kA	40
16	Insulation Withstand	
	a) Lightning Impulse (kVp)	As per IEC 60099-4 2014
	b) Power frequency kVrms	As per IEC 60099-4 2014
	c) Switching Imp (Wet)(kVp)	NA
17	Rated frequency (Hz)	48 to 62
18	Leakage current	
	a. IR at MCOV in µA	Less than 400
	b. IC at MCOV in mA	About 1.2
19	Reference voltage in Volt at Reference current in mA	> 141kV at 2mA
20	Partial discharge P.D	10pC
21	Creepage distance-mm (min) Phase to Phase	25mm/kV /31mm/kV (as applicable)
22	Max. Cantilever strength of arrester Kg	150

# Transmission Line Arrester (228kv)

S No	Description	228kV 10kA SL (TLA)
	<b>Model</b>	<b>PBC</b>
1	Highest system voltage kV rms	245
2	Nominal system voltage kVrms	220
3	Ur - Rated voltage kVrms	228
4	Uc - MCOV(kVrms)	182
5	In - NDC (8/20 $\mu$ s) kA	10
6	Arrester classification	Station Low duty
7	Qrs (IEC 99-4 Ed.3) in coulomb	1
8	Wth (IEC 99-4 Ed.3) in kJ/kV	4
9	Qth (IEC 99-4 Ed.3) in coulomb	
10	Max RDV kVp	
	a) 5kA	567
	b) 10kA	609
	c) 20kA	671
11	Max. Switch. Imp. R.V.(kVp)	
	a) 500A	477
	b) 1000A	
	c) 2000A	
12	Max. Steep Current impulse RDV(kVp) at NDC	654
13	High current impulse withstand value (4/10 $\mu$ s) kA	100
14	TOV (kVp)	
	i. 0.1	402
	ii. 1.0Sec	386
	iii. 10.0Sec	370
	iv. 100.0Sec	354
15	Short circuit current kA	40
16	Insulation Withstand	
	a) Lightning Impulse (kVp)	As per IEC 60099-4 2014
	b) Power frequency kVrms	As per IEC 60099-4 2014
	c) Switching Imp (Wet)(kVp)	NA
17	Rated frequency (Hz)	48 to 62
18	Leakage current	
	a. IR at MCOV in $\mu$ A	Less than 400
	b. IC at MCOV in mA	About 1.2
19	Reference voltage in Volt at Reference current in mA	> 228kV at 2mA
20	Partial discharge P.D	10pC
21	Creepage distance-mm (min) Phase to Phase	25mm/kV /31mm/kV (as applicable)
22	Max. Cantilever strength of arrester Kg	150



# Transmission Line Arrester (420kv)

S No	Description	420kV 10kA SL (TLA)
	<b>Model</b>	<b>PBC</b>
1	Highest system voltage kV rms	420
2	Nominal system voltage kVrms	400
3	Ur - Rated voltage kVrms	420
4	Uc - MCOV(kVrms)	330
5	In - NDC (8/20 $\mu$ s) kA	10
6	Arrester classification	Station Low duty
7	Qrs (IEC 99-4 Ed.3) in coulomb	1
8	Wth (IEC 99-4 Ed.3) in kJ/kV	4
9	Qth (IEC 99-4 Ed.3) in coulomb	
10	Max RDV kVp	
	a) 5kA	1050
	b) 10kA	1120
	c) 20kA	1275
11	Max. Switch. Imp. R.V.(kVp)	
	a) 500A	
	b) 1000A	
	c) 2000A	900
12	Max. Steep Current impulse RDV(kVp) at NDC	1275
13	High current impulse withstand value (4/10 $\mu$ s) kA	100
14	TOV (kVp)	
	i. 0.1	742
	ii. 1.0Sec	712
	iii. 10.0Sec	682
	iv. 100.0Sec	653
15	Short circuit current kA	40
16	Insulation Withstand	
	a) Lightning Impulse (kVp)	As per IEC 60099-4 2014
	b) Power frequency kVrms	As per IEC 60099-4 2014
	c) Switching Imp (Wet)(kVp)	NA
17	Rated frequency (Hz)	48 to 62
18	Leakage current	
	a. IR at MCOV in $\mu$ A	Less than 400
	b. IC at MCOV in mA	About 1.2
19	Reference voltage in Volt at Reference current in mA	> 420kV at 2mA
20	Partial discharge P.D	10pC
21	Creepage distance-mm (min) Phase to Phase	25mm/kV /31mm/kV (as applicable)
22	Max. Cantilever strength of arrester Kg	150



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