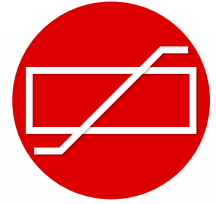


High Voltage

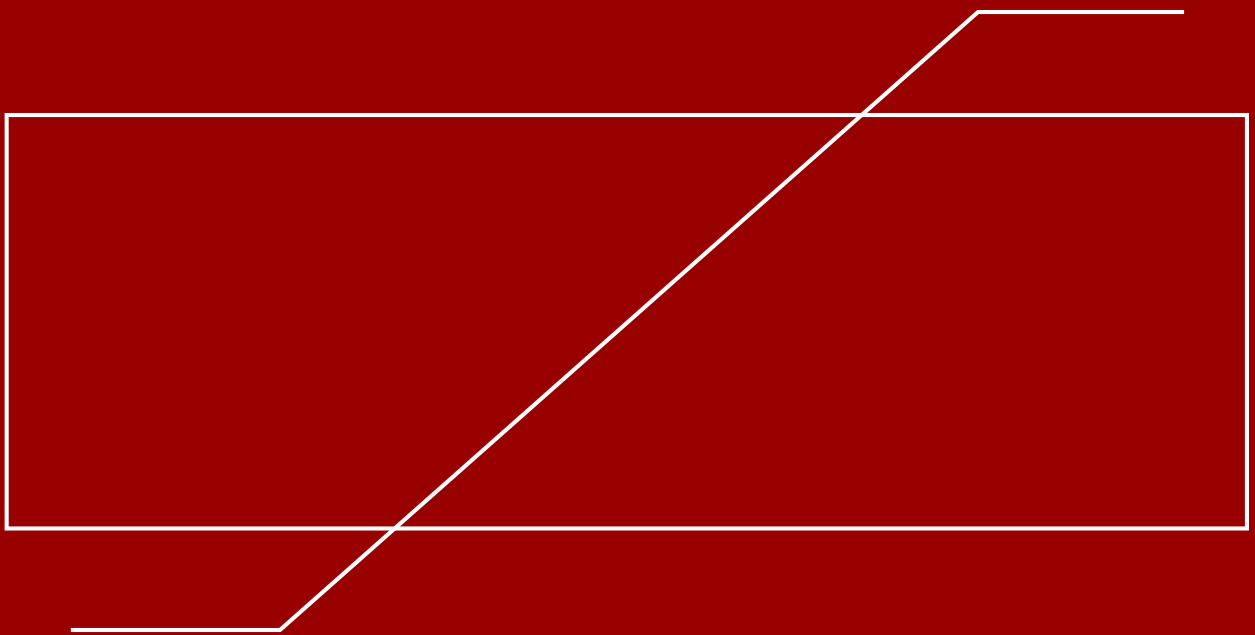


**OBLUM**  
50 YEARS OF EXCELLENCE

# 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.



## Asian Countries

- Philippines
- Iraq
- Bangladesh
- Srilanka
- Turkey
- Abu Dhabi
- Bhutan
- Malaysia
- Nepal
- Uganda
- Uae
- Afghanistan
- Vietnam
- Sharjah
- Nigeria
- Colombo
- Kabul
- Jordan
- Kenya
- Yemen
- Dubai
- Armenia
- Georgia
- Japan
- Kuwait

## South American Countries

- Peru
- Paraguay

## North American Countries

- Nicaragua
- Canada

## European Countries

- Finland
- Spain

## African Countries

- Kenya
- Rwanda
- Togo
- Mali
- Zambia
- Burkina Faso
- Mozambique
- Congo
- Tanzania
- Uganda
- South Africa
- Ivory Coast
- Ethiopia
- Botswana
- Liberia
- Transco Clsg
- Ghana
- Sierra Leone
- Gambia

# High Voltage (54kv)

S No	Description	72kV 10kA SM
	<b>Model</b>	<b>PBC</b>
1	Highest system voltage kV rms	36
2	Nominal system voltage kVrms	33
3	Ur –Rated voltage kVrms	54
4	Uc -MCOV(kVrms)	43.2
5	In –NDC (8/20µs) kA	20
6	Arrester classification	Station High duty
7	Qrs(IEC 99-4 Ed.3) in coulomb	2.4
8	Wth (IEC 99-4 Ed.3) in kJ/kV	10
9	Qth (IEC 99-4 Ed.3) in coulomb	
10	Max RDV kVp	
	a)5kA	
	b)10kA	135
	c)20kA	144
11	Max. Switch. Imp. R.V.(kVp)	
	a)500A	
	b)1000A	
	c) 2000A	115
12	Max. Steep Current impulse RDV(kVp) at NDC	153
13	High current impulse withstand value (4/10 µs) kA	100
14	TOV (kVp)	
	i. 0.1	95
	ii.1.0Sec	92
	iii. 10.0Sec	88
	iv. 100.0Sec	84
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 500
	b. IC at MCOV in mA	About 1.5
19	Reference voltage in Volt at Reference current in mA	> 54kV at 4mA
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 Kgf	150

# High Voltage (60kv)

S No	Description	EHV	
		60kV 10kA SL	60kV 10kA SM
	<b>Model</b>	<b>PBC</b>	<b>PBC</b>
1	Highest system voltage kV rms	72.5	72.5
2	Nominal system voltage kVrms	66	66
3	Ur -Rated voltage kVrms	60	60
4	Uc -MCOV (kVrms)	51	51
5	In -NDC (8/20µs) kA	10	10
6	Arrester classification	Station Low duty	Station Medium Duty
7	Qrs (IEC 99-4 Ed.3) in coulomb	1	1.6
8	Wth (IEC 99-4 Ed.3) in kJ/kV	4	7
9	Qth (IEC 99-4 Ed.3) in coulomb		
10	Max RDV kVp		
	a) 5kA	170	160
	b) 10kA	180	170
	c) 20kA	200	190
11	Max. Switch. Imp. R.V. (kVp)		
	a) 500A	144	
	b) 1000A		136
	c) 2000A		
12	Max. Steep Current impulse RDV (kVp) at NDC	200	190
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	106	106
	ii. 1.0Sec	102	102
	iii. 10.0Sec	97	97
	iv. 100.0Sec	93	93
15	Short circuit current kA	40	40
16	Insulation Withstand		
	a) Lightning Impulse (kVp)	As per IEC 60099-4 2014	As per IEC 60099-4 2014
	b) Power frequency kVrms	As per IEC 60099-4 2014	As per IEC 60099-4 2014
	c) Switching Imp (Wet) (kVp)	NA	NA
17	Rated frequency (Hz)	48 to 62	48 to 62
18	Leakage current		
	a. IR at MCOV in µA	Less than 400	Less than 400
	b. IC at MCOV in mA	About 1.2	About 1.4
19	Reference voltage in Volt at Reference current in mA	> 60kV at 2mA	> 60kV at 3mA
20	Partial discharge P.D	10pC	10pC
21	Creepage distance-mm (min) Phase to Phase	25mm/kV /31mm/kV (as applicable)	25mm/kV /31mm/kV (as applicable)
22	Max. Cantilever strength of arrester Kg	150	150

# High Voltage (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)	61
5	In –NDC (8/20µs) kA	10
6	Arrester classification	Station Medium Duty
7	Qrs(IEC 99-4 Ed.3) in coulomb	1.6
8	Wth (IEC 99-4 Ed.3) in kJ/kV	7
9	Qth (IEC 99-4 Ed.3) in coulomb	
10	Max RDV kVp	
	a)5kA	192
	b)10kA	204
	c)20kA	228
11	Max. Switch. Imp. R.V.(kVp)	
	a)500A	
	b)1000A	163
	c) 2000A	
12	Max. Steep Current impulse RDV(kVp) at NDC	228
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 1.4
19	Reference voltage in Volt at Reference current in mA	> 72kV at 3mA
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

# High Voltage (96kv)

S No	Description	96kV 10kA SM
	<b>Model</b>	<b>PBC</b>
1	Highest system voltage kV rms	123
2	Nominal system voltage kVrms	110
3	Ur –Rated voltage kVrms	96
4	Uc –MCOV (kVrms)	81
5	In –NDC (8/20µs) kA	10
6	Arrester classification	Sation Medium Duty
7	Qrs (IEC 99-4 Ed.3) in coulomb	1.6
8	Wth (IEC 99-4 Ed.3) in kJ/kV	7
9	Qth (IEC 99-4 Ed.3) in coulomb	
10	Max RDV kVp	
	a)5kA	256
	b)10kA	272
	c)20kA	304
11	Max. Switch. Imp. R.V.(kVp)	
	a)500A	
	b)1000A	217
	c) 2000A	
12	Max. Steep Current impulse RDV(kVp) at NDC	304
13	High current impulse withstand value (4/10 µs) kA	100
14	TOV (kVp)	
	i. 0.1	170
	ii.1.0Sec	163
	iii. 10.0Sec	156
	iv. 100.0Sec	149
15	Short circuit current kA	40/50 (As applicable)
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 1.4
19	Reference voltage in Volt at Reference current in mA	> 96kV at 3mA
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

# High Voltage (120kv)

S No	Description	120kV 10kA SM	120kV 20kA SH
	<b>Model</b>	<b>PBC</b>	
1	Highest system voltage kV rms	145	145
2	Nominal system voltage kVrms	132	132
3	Ur - Rated voltage kVrms	120	120
4	Uc - MCOV(kVrms)	102	102
5	In - NDC (8/20 $\mu$ s) kA	10	20
6	Arrester classification	Station Medium Duty	Station High Duty
7	Qrs (IEC 99-4 Ed.3) in coulomb	1.6	2.4
8	Wth (IEC 99-4 Ed.3) in kJ/kV	7	10
9	Qth (IEC 99-4 Ed.3) in coulomb		
10	Max RDV kVp		
	a) 5kA	320	
	b) 10kA	340	300
	c) 20kA	380	320
11	Max. Switch. Imp. R.V.(kVp)		
	a) 500A		
	b) 1000A	272	
	c) 2000A		256
12	Max. Steep Current impulse RDV(kVp) at NDC	380	340
13	High current impulse withstand value (4/10 $\mu$ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	212	212
	ii. 1.0Sec	204	204
	iii. 10.0Sec	195	195
	iv. 100.0Sec	187	187
15	Short circuit current kA	40/50 (As applicable)	40/50 (As applicable)
16	Insulation Withstand		
	a) Lightning Impulse (kVp)	As per IEC 60099-4 2014	As per IEC 60099-4 2014
	b) Power frequency kVrms	As per IEC 60099-4 2014	As per IEC 60099-4 2014
	c) Switching Imp (Wet)(kVp)	NA	NA
17	Rated frequency (Hz)	48 to 62	48 to 62
18	Leakage current		
	a. IR at MCOV in $\mu$ A	Less than 400	Less than 500
	b. IC at MCOV in mA	About 1.4	About 1.5
19	Reference voltage in Volt at Reference current in mA	> 120kV at 3mA	> 120kV at 4mA
20	Partial discharge P.D	10pC	10pC
21	Creepage distance-mm (min) Phase to Phase	25mm/kV /31mm/kV (as applicable)	25mm/kV /31mm/kV (as applicable)
22	Max. Cantilever strength of arrester Kgf	150	150



# High Voltage (132kv)

S No	Description	132kV 10kA SM	132kV 20kA SH
	<b>Model</b>	<b>PBC</b>	<b>PBC</b>
1	Highest system voltage kV rms	145	145
2	Nominal system voltage kVrms	132	132
3	Ur - Rated voltage kVrms	132	132
4	Uc - MCOV(kVrms)	112	112
5	In - NDC (8/20µs) kA	10	20
6	Arrester classification	Station Medium duty	Station High Duty
7	Qrs(IEC 99-4 Ed.3) in coulomb	1.6	2.4
8	Wth (IEC 99-4 Ed.3) in kJ/kV	7	10
9	Qth (IEC 99-4 Ed.3) in coulomb		
10	Max RDV kVp		
	a) 5kA	352	
	b) 10kA	374	330
	c) 20kA	418	352
11	Max. Switch. Imp. R.V.(kVp)		
	a) 500A		
	b) 1000A	299	
	c) 2000A		280
12	Max. Steep Current impulse RDV(kVp) at NDC	418	374
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	233	233
	ii. 1.0Sec	223	223
	iii. 10.0Sec	214	214
	iv. 100.0Sec	205	205
15	Short circuit current kA	40/50 (As applicable)	40/50 (As applicable)
16	Insulation Withstand		
	a) Lightning Impulse (kVp)	As per IEC 60099-4 2014	As per IEC 60099-4 2014
	b) Power frequency kVrms	As per IEC 60099-4 2014	As per IEC 60099-4 2014
	c) Switching Imp (Wet)(kVp)	NA	NA
17	Rated frequency (Hz)	48 to 62	48 to 62
18	Leakage current		
	a. IR at MCOV in µA	Less than 400	Less than 500
	b. IC at MCOV in mA	About 1.4	About 1.5
19	Reference voltage in Volt at Reference current in mA	> 132kV at 3mA	> 132kV at 4mA
20	Partial discharge P.D	10pC	10pC
21	Creepage distance-mm (min) Phase to Phase	25mm/kV /31mm/kV (as applicable)	25mm/kV /31mm/kV (as applicable)
22	Max. Cantilever strength of arrester Kg	150	150

# High Voltage (144kV)

S No	Description	144kV 10kA SM
	<b>Model</b>	<b>PBC</b>
1	Highest system voltage kV rms	145
2	Nominal system voltage kVrms	132
3	Ur - Rated voltage kVrms	144
4	Uc - MCOV(kVrms)	122
5	In - NDC (8/20µs) kA	10
6	Arrester classification	Station Medium duty
7	Qrs (IEC 99-4 Ed.3) in coulomb	1.6
8	Wth (IEC 99-4 Ed.3) in kJ/kV	7
9	Qth (IEC 99-4 Ed.3) in coulomb	
10	Max RDV kVp	
	a) 5kA	384
	b) 10kA	408
	c) 20kA	456
11	Max. Switch. Imp. R.V.(kVp)	
	a) 500A	
	b) 1000A	365
	c) 2000A	
12	Max. Steep Current impulse RDV(kVp) at NDC	456
13	High current impulse withstand value (4/10 µs) kA	100
14	TOV (kVp)	
	i. 0.1	254
	ii. 1.0Sec	244
	iii. 10.0Sec	234
	iv. 100.0Sec	224
15	Short circuit current kA	40/50(As applicable)
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)	49 to 62
18	Leakage current	
	a. IR at MCOV in µA	Less than 400
	b. IC at MCOV in mA	About 1.4
19	Reference voltage in Volt at Reference current in mA	> 144kV at 3mA
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

# High Voltage (198kv)

S No	Description	198kV 10kA SM	198kV 20kA SH
	<b>Model</b>	<b>PBC</b>	<b>PBC</b>
1	Highest system voltage kV rms	245	245
2	Nominal system voltage kVrms	220	220
3	Ur - Rated voltage kVrms	198	198
4	Uc - MCOV(kVrms)	168	168
5	In - NDC (8/20µs) kA	10	20
6	Arrester classification	Station Medium Duty	Station High Duty
7	Qrs (IEC 99-4 Ed.3) in coulomb	1.6	2.4
8	Wth (IEC 99-4 Ed.3) in kJ/kV	7	10
9	Qth (IEC 99-4 Ed.3) in coulomb		
10	Max RDV kVp		
	a) 5kA	518	
	b) 10kA	550	495
	c) 20kA	610	528
11	Max. Switch. Imp. R.V.(kVp)		
	a) 500A		
	b) 1000A	455	
	c) 2000A		422
12	Max. Steep Current impulse RDV(kVp) at NDC	610	561
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	349	349
	ii. 1.0Sec	335	335
	iii. 10.0Sec	321	321
	iv. 100.0Sec	307	307
15	Short circuit current kA	40/50 (As applicable)	40/50 (As applicable)
16	Insulation Withstand		
	a) Lightning Impulse (kVp)	As per IEC 60099-4 2014	As per IEC 60099-4 2014
	b) Power frequency kVrms	As per IEC 60099-4 2014	As per IEC 60099-4 2014
	c) Switching Imp (Wet)(kVp)	NA	NA
17	Rated frequency (Hz)	48 to 62	48 to 62
18	Leakage current		
	a. IR at MCOV in µA	Less than 400	Less than 500
	b. IC at MCOV in mA	About 1.4	About 1.5
19	Reference voltage in Volt at Reference current in mA	> 198kV at 3mA	> 198kV at 4mA
20	Partial discharge P.D	10pC	10pC
21	Creepage distance-mm (min) Phase to Phase	25mm/kV /31mm/kV (as applicable)	25mm/kV /31mm/kV (as applicable)
22	Max. Cantilever strength of arrester Kgf	150	150

# High Voltage (216kv)

S No	Description	216kV 10kA SM	216kV 10kA SH
	<b>Model</b>	<b>PBC</b>	<b>PBC</b>
1	Highest system voltage kV rms	245	245
2	Nominal system voltage kVrms	220	220
3	Ur - Rated voltage kVrms	216	216
4	Uc - MCOV(kVrms)	168	168
5	In - NDC (8/20 $\mu$ s) kA	10	20
6	Arrester classification	Station Medium Duty	Station High Duty
7	Qrs (IEC 99-4 Ed.3) in coulomb	1.6	2.4
8	Wth (IEC 99-4 Ed.3) in kJ/kV	7	10
9	Qth (IEC 99-4 Ed.3) in coulomb		
10	Max RDV kVp		
	a) 5kA	560	
	b) 10kA	600	540
	c) 20kA	650	576
11	Max. Switch. Imp. R.V.(kVp)		
	a) 500A		
	b) 1000A	496	
	c) 2000A		460
12	Max. Steep Current impulse RDV(kVp) at NDC	650	612
13	High current impulse withstand value (4/10 $\mu$ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	381	381
	ii. 1.0Sec	366	366
	iii. 10.0Sec	351	351
	iv. 100.0Sec	335	335
15	Short circuit current kA	40/50 (As applicable)	40/50 (As applicable)
16	Insulation Withstand		
	a) Lightning Impulse (kVp)	As per IEC 60099-4 2014	As per IEC 60099-4 2014
	b) Power frequency kVrms	As per IEC 60099-4 2014	As per IEC 60099-4 2014
	c) Switching Imp (Wet)(kVp)	NA	NA
17	Rated frequency (Hz)	48 to 62	48 to 62
18	Leakage current		
	a. IR at MCOV in $\mu$ A	Less than 400	Less than 500
	b. IC at MCOV in mA	About 1.4	About 1.5
19	Reference voltage in Volt at Reference current in mA	> 216kV at 3mA	> 216kV at 4mA
20	Partial discharge P.D	10pC	10pC
21	Creepage distance-mm (min) Phase to Phase	25mm/kV /31mm/kV (as applicable)	25mm/kV /31mm/kV (as applicable)
22	Max. Cantilever strength of arrester Kg	150	150

**For Sales Contacts:**

**Bhargavi**

Ph: +91 8977089857

E: [exports@oblum.co.in](mailto:exports@oblum.co.in)

**For Technical Support :**

**Mrs. Nagalakshmi**

Ph: 9848352440

E: [support@oblum.co.in](mailto:support@oblum.co.in)

**Oblum Electrical Industries (P) Ltd.**

#A-16&17, Assisted Private Industrial  
Estate, Balanagar, Hyderabad - 500 037

Land Line: 040-2377 1880

GST : 36AAACO2289A1ZQ

[www.oblum.co.in](http://www.oblum.co.in)

