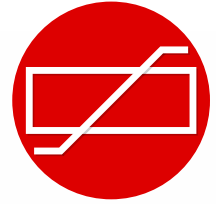


Medium Voltage (42kv)

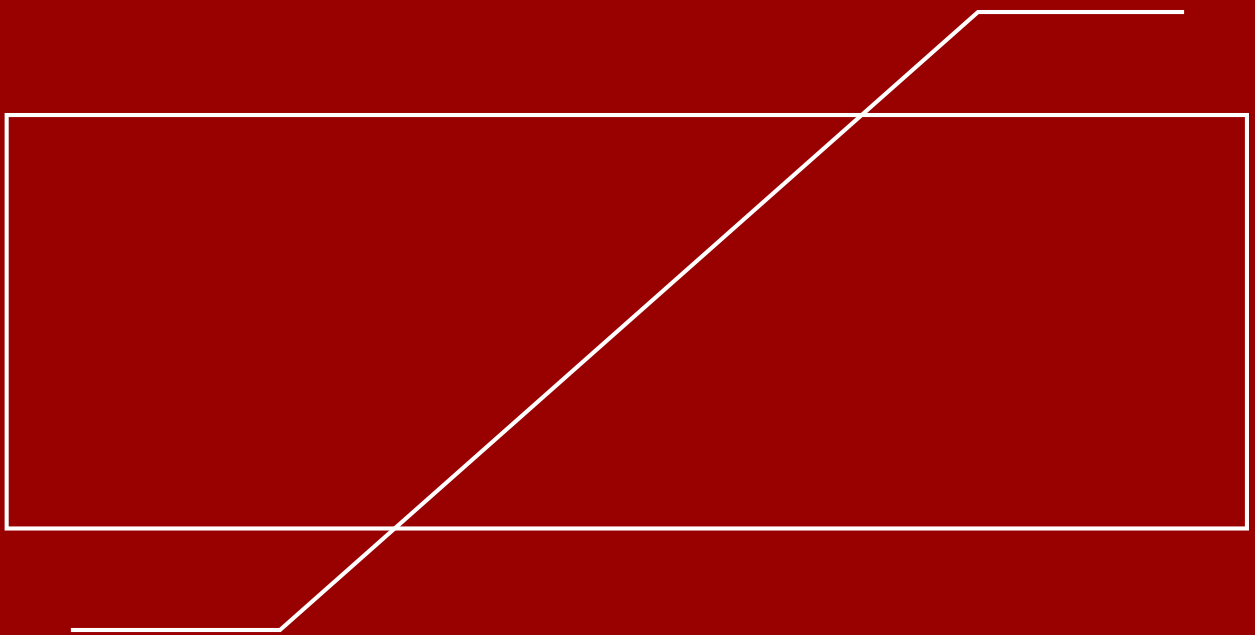


**OBLUM**  
50 YEARS OF EXCELLENCE

# 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.



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- Ethiopia
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- Sierra Leone
- Gambia

# Medium Voltage (42kv)

<b>INDOOR SPF</b>			
<b>S No</b>	<b>Description</b>	<b>42kV 10kA SL</b>	<b>42kV 10kA SM</b>
	<b>Model</b>	<b>INDOOR</b>	<b>INDOOR</b>
	<b>OUTDOOR/ INDOOR</b>	<b>SPF</b>	<b>SPF</b>
	<b>System earthing</b>	<b>Unearthed</b>	<b>Unearthed</b>
1	Highest system voltage kV rms	36	36
2	Nominal system voltage kVrms	33	33
3	Ur –Rated voltage kVrms	42	42
4	Uc –MCOV(kVrms)	36	36
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	119	112
	b) 10kA	126	119
	c) 20kA	140	133
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	100	
	b) 1000A		95
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	140	133
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	74	74
	ii. 1.0Sec	71	71
	iii. 10.0Sec	68	68
	iv. 100.0Sec	65	65
15	Short circuit current kA	25/31.5 (as applicable)	25/31.5 (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 400
	b. IC at MCOV in mA	About 1.2	About 1.4
19	Reference voltage in Volt at Reference current in mA	> 42kV at 2mA	> 42kV at 3mA
20	Partial discharge P.D	10pC	10pC
21	Creepage distance–mm (min) Phase to Phase	NA	NA
22	Max. Cantilever strength of arrester Kgf	NA	NA

## MEDIUM STATION PBW

S No	Description	42kV 10kA SL	42kV 10kA SM
	Model	PBW	PBW
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	36	36
2	Nominal system voltage kVrms	33	33
3	Ur –Rated voltage kVrms	42	42
4	Uc –MCOV(kVrms)	36	36
5	In –NDC (8/20 $\mu$ s) 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	119	112
	b) 10kA	126	119
	c) 20kA	140	133
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	100	
	b) 1000A		95
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	140	133
13	High current impulse withstand value (4/10 $\mu$ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	74	74
	ii. 1.0Sec	71	71
	iii. 10.0Sec	68	68
	iv. 100.0Sec	65	65
15	Short circuit current kA	25/31.5 (as applicable )	25/31.5 (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 400
	b. IC at MCOV in mA	About 1.2	About 1.4
19	Reference voltage in Volt at Reference current in mA	> 42kV at 2mA	> 42kV 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

## MEDIUM STATION PBC

S No	Description	42kV 10kA SL	42kV 10kA SM
	Model	PBC	PBC
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	36	36
2	Nominal system voltage kVrms	33	33
3	Ur –Rated voltage kVrms	42	42
4	Uc –MCOV(kVrms)	36	36
5	In –NDC (8/20 $\mu$ s) 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	119	112
	b) 10kA	126	119
	c) 20kA	140	133
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	100	
	b) 1000A		95
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	140	133
13	High current impulse withstand value (4/10 $\mu$ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	74	74
	ii. 1.0Sec	71	71
	iii. 10.0Sec	68	68
	iv. 100.0Sec	65	65
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 $\mu$ A	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	> 42kV at 2mA	> 42kV 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

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