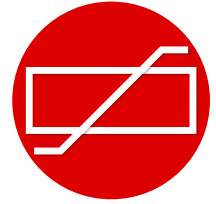


Medium Voltage (18kv)

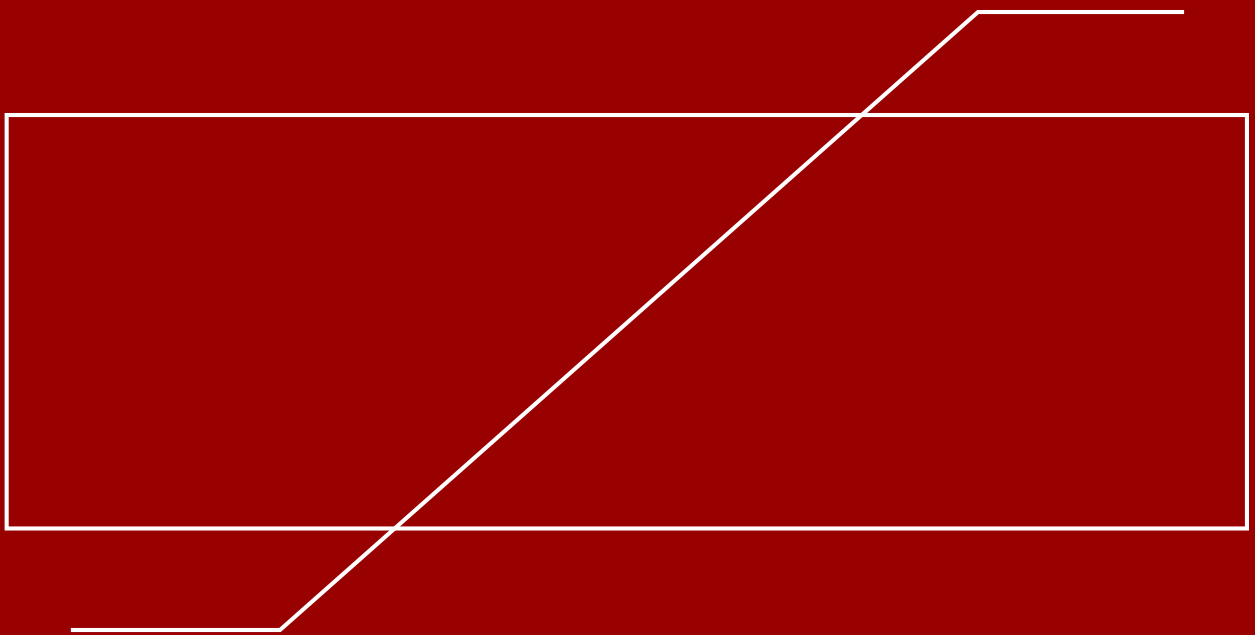


**OBLUM**  
50 YEARS OF EXCELLENCE

# 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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- Nigeria
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- Kabul
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- Gambia

# Medium Voltage (18kv)

DISTRIBUTION MEDIUM DUTY		
S No	Description	18kV 10kA DH
	Model	PBW
	OUTDOOR/ INDOOR	
	System earthing	
1	Highest system voltage kV rms	24
2	Nominal system voltage kVrms	22
3	Ur –Rated voltage kVrms	18
4	Uc –MCOV(kVrms)	15
5	In –NDC (8/20 $\mu$ s) kA	10
6	Arrester classification	Distrinution High duty
7	Qrs (IEC 99-4 Ed.3) in coulomb	0.4
8	Wth (IEC 99-4 Ed.3) in kJ/kV	
9	Qth (IEC 99-4 Ed.3) in coulomb	1.1
10	Max RDV kVp	
	a) 5kA	54
	b) 10kA	57
	c) 20kA	63
11	Max. Switch. Imp. RDV(kVp)	NA
	a) 500A	
	b) 1000A	
	c) 2000A	
12	Max. Steep Current impulse RDV(kVp) at NDC	63
13	High current impulse withstand value (4/10 $\mu$ s) kA	100
14	TOV (kVp)	
	i. 0.1	32
	ii. 1.0Sec	30
	iii. 10.0Sec	29
	iv. 100.0Sec	28
15	Short circuit current kA	25/31.5 (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 $\mu$ A	Less than 400
	b. IC at MCOV in mA	About 1.2
19	Reference voltage in Volt at Reference current in mA	> 18kV at 1mA
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	NA

## MEDIUM STATION PBW

S No	Description	18kV 10kA SL	18kV 10kA SM
	Model	PBW	PBW
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	24	24
2	Nominal system voltage kVrms	22	22
3	Ur –Rated voltage kVrms	18	18
4	Uc –MCOV(kVrms)	15	15
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	51	48
	b)10kA	54	51
	c)20kA	60	57
11	Max. Switch. Imp. RDV(kVp)		
	a)500A	43	
	b)1000A		40
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	60	57
13	High current impulse withstand value (4/10 $\mu$ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	32	32
	ii.1.0Sec	30	30
	iii. 10.0Sec	29	29
	iv. 100.0Sec	28	28
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	> 18kV at 2mA	> 18kV 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 Kgf	150	150

## MEDIUM STATION PBC

S No	Description	18kV 10kA SL	18kV 10kA SM
	Model	PBC	PBC
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	24	24
2	Nominal system voltage kVrms	22	22
3	Ur –Rated voltage kVrms	18	18
4	Uc –MCOV(kVrms)	15	15
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	51	48
	b)10kA	54	51
	c)20kA	60	57
11	Max. Switch. Imp. RDV(kVp)		
	a)500A	43	
	b)1000A		40
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	60	57
13	High current impulse withstand value (4/10 $\mu$ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	32	32
	ii.1.0Sec	30	30
	iii. 10.0Sec	29	29
	iv. 100.0Sec	28	28
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	> 18kV at 2mA	> 18kV 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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