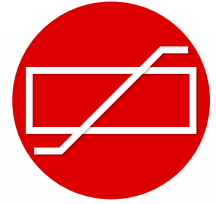


Medium Voltage (4.5kv)

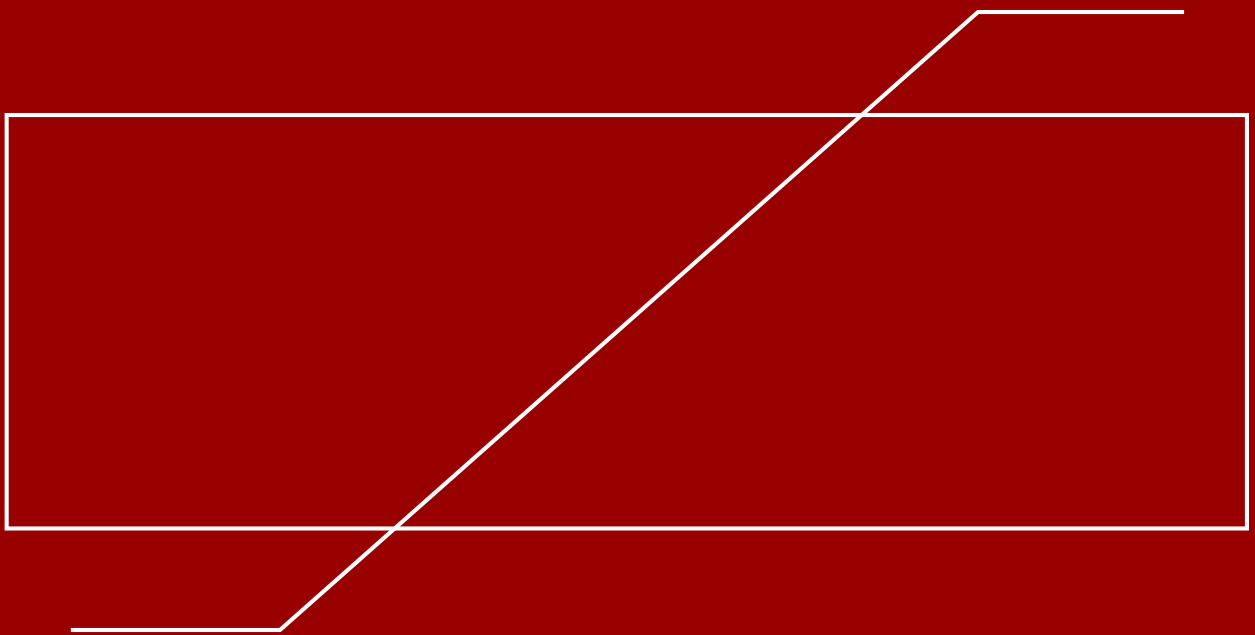


OBLUM
50 YEARS OF EXCELLENCE

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.





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Medium Voltage (4.5kv)

INDOOR SPF			
S No	Description	4.5kV 10kA SL	4.5kV 10kA SM
	Model	SPF	SPF
	OUTDOOR/ INDOOR	INDOOR	INDOOR
	System earthing	solidly / ineffectively earthed sytem	solidly / ineffectively earthed sytem
1	Highest system voltage kV rms	3.6	3.6
2	Nominal system voltage kVrms	3.3	3.3
3	Ur - Rated voltage kVrms	4.5	4.5
4	Uc - MCOV(kVrms)	3.8	3.8
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	13	12
	b) 10kA	14	13
	c) 20kA	15	14
11	Max. Switch. Imp. RDV(kVp)		
		11	
			10.4
12	Max. Steep Current impulse RDV(kVp) at NDC	15	14
13	High current impulse withstand value (4/10 µs) kA	100	100kA
14	TOV (kVp)		
	i. 0.1	8	8
	ii. 1.0Sec	7.6	7.6
	iii. 10.0Sec	7.3	7.3
	iv. 100.0Sec	6.9	6.9
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	> 4.5kV at 2mA	> 4.5kV 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

DISTRIBUTION MEDIUM DUTY

S No	Description	4.5kV 5kA DM	4.5kV 10kA DH
	Model	PBW	PBW
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	3.6	3.6
2	Nominal system voltage kVrms	3.3	3.3
3	Ur –Rated voltage kVrms	4.5	4.5
4	Uc –MCOV(kVrms)	3.8	3.8
5	In –NDC (8/20µs) kA	5	10
6	Arrester classification	Distribution Medium Duty	Distribution High duty
7	Qrs(IEC 99-4 Ed.3) in coulomb	0.2	0.4
8	Wth (IEC 99-4 Ed.3) in kJ/kV		
9	Qth (IEC 99-4 Ed.3) in coulomb	0.7	1.1
10	Max RDV kVp		
	a)5kA	15	13
	b)10kA	17	14
	c)20kA		16
11	Max. Switch. Imp. RDV(kVp)	NA	NA
12	Max. Steep Current impulse RDV(kVp) at NDC	17	16
13	High current impulse withstand value (4/10 µs) kA	65	100
14	TOV (kVp)		
	i. 0.1	8	8
	ii.1.0Sec	7.6	7.6
	iii. 10.0Sec	7.3	7.3
	iv. 100.0Sec	6.9	6.9
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 1.2
19	Reference voltage in Volt at Reference current in mA	> 4.5kV at 1mA	> 4.5kV at 1mA
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	NA	NA

MEDIUM STATION PBW

S No	Description	4.5kV 5kA DM	4.5kV 10kA DH
	Model	PBW	PBW
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	3.6	3.6
2	Nominal system voltage kVrms	3.3	3.3
3	Ur –Rated voltage kVrms	4.5	4.5
4	Uc -MCOV(kVrms)	3.8	3.8
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	13	12
	b)10kA	14	13
	c)20kA	15	14
11	Max. Switch. Imp. RDV(kVp)		
		11	
		10.4	
12	Max. Steep Current impulse RDV(kVp) at NDC	15	14
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	8	8
	ii.1.0Sec	7.6	7.6
	iii. 10.0Sec	7.3	7.3
	iv. 100.0Sec	6.9	6.9
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	> 4.5kV at 2mA	> 4.5kV 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	4.5kV 10kA SL	4.5kV 10kA SM
	Model	PBC	PBC
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	3.6	3.6
2	Nominal system voltage kVrms	3.3	3.3
3	Ur –Rated voltage kVrms	4.5	4.5
4	Uc –MCOV(kVrms)	3.8	3.8
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	13	12
	b)10kA	14	13
	c)20kA	15	14
11	Max. Switch. Imp. RDV(kVp)		
		11	
		10.4	
12	Max. Steep Current impulse RDV(kVp) at NDC	15	14
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	8	8
	ii.1.0Sec	7.6	7.6
	iii. 10.0Sec	7.3	7.3
	iv. 100.0Sec	6.9	6.9
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	> 4.5kV at 2mA	> 4.5kV 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

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