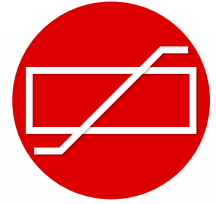


Medium Voltage (12kv)

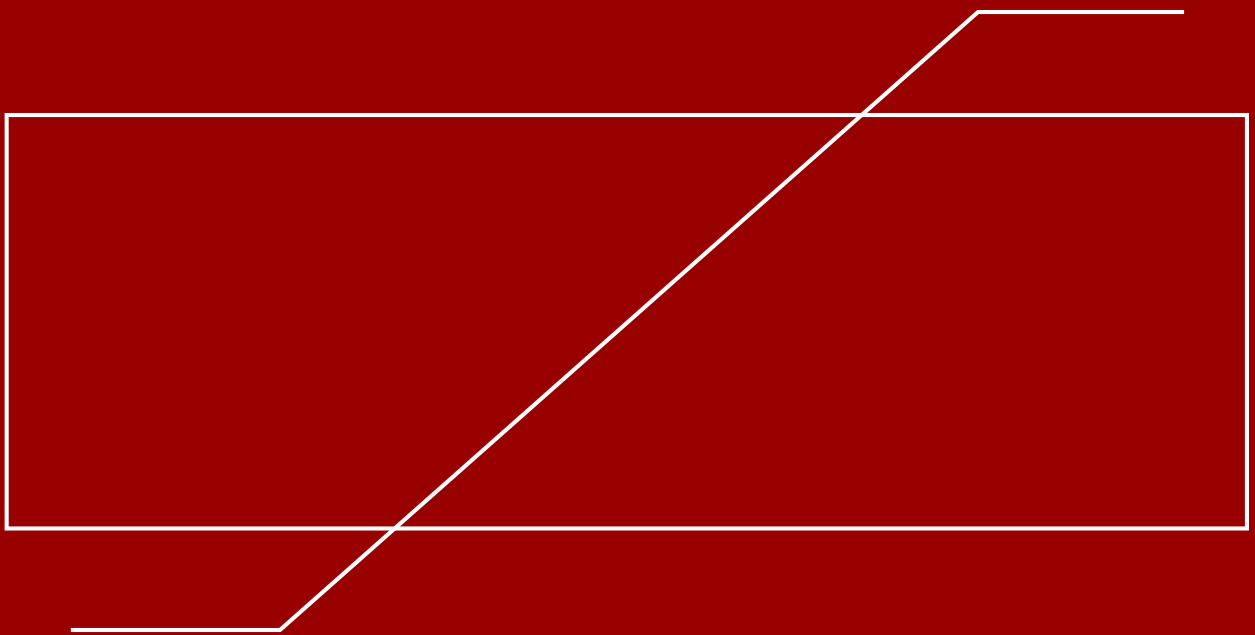


OBLUM
50 YEARS OF EXCELLENCE

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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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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Medium Voltage (12kv)

INDOOR SPF			
S No	Description	12kV 10kA SL	12kV 10kA SM
	Model	SPF	SPF
	OUTDOOR/ INDOOR	INDOOR	INDOOR
	System earthing	solidly / ineffectively earthed system	solidly / ineffectively earthed system
1	Highest system voltage kV rms	12	12
2	Nominal system voltage kVrms	11	11
3	Ur - Rated voltage kVrms	12	12
4	Uc - MCOV (kVrms)	10.2	10.2
5	In - NDC (8/20 μ 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	34	32
	b) 10kA	36	34
	c) 20kA	40	38
11	Max. Switch. Imp. RDV (kVp)		
	a) 500A	28	
	b) 1000A		27
	c) 2000A		
12	Max. Steep Current impulse RDV (kVp) at NDC	40	38
13	High current impulse withstand value (4/10 μ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	21	21
	ii. 1.0Sec	20	20
	iii. 10.0Sec	19	19
	iv. 100.0Sec	18	18
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 μ 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	> 12kV at 2mA	> 12kV 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	12kV 5kA DM	12kV 10kA DH
	Model	PBW	PBW
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	12	12
2	Nominal system voltage kVrms	11	11
3	Ur –Rated voltage kVrms	12	12
4	Uc –MCOV(kVrms)	10.2	10.2
5	In –NDC (8/20 μ s) 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	40	36
	b) 10kA	46	38
	c) 20kA		42
11	Max. Switch. Imp. RDV(kVp)	NA	NA
	a) 500A		
	b) 1000A		
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	46	42
13	High current impulse withstand value (4/10 μ s) kA	65	100
14	TOV (kVp)		
	i. 0.1	21	21
	ii. 1.0Sec	20	20
	iii. 10.0Sec	19	19
	iv. 100.0Sec	18	18
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 μ A	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	> 12kV at 1mA	> 12kV 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	12kV 10kA SL	12kV 10kA SM
	Model	PBW	PBW
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	12	12
2	Nominal system voltage kVrms	11	11
3	Ur –Rated voltage kVrms	12	12
4	Uc –MCOV(kVrms)	10.2	10.2
5	In –NDC (8/20 μ 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	34	32
	b) 10kA	36	34
	c) 20kA	40	38
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	28	
	b) 1000A		27
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	40	38
13	High current impulse withstand value (4/10 μ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	21	21
	ii. 1.0Sec	20	20
	iii. 10.0Sec	19	19
	iv. 100.0Sec	18	18
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 μ 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	> 12kV at 2mA	> 12kV 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	12kV 10kA SL	12kV 10kA SM
	Model	PBC	PBC
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	12	12
2	Nominal system voltage kVrms	11	11
3	Ur –Rated voltage kVrms	12	12
4	Uc –MCOV(kVrms)	10.2	10.2
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	34	32
	b)10kA	36	34
	c)20kA	40	38
11	Max. Switch. Imp. RDV(kVp)		
	a)500A	28	
	b)1000A		27
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	40	38
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	21	21
	ii.1.0Sec	20	20
	iii. 10.0Sec	19	19
	iv. 100.0Sec	18	18
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	> 12kV at 2mA	> 12kV 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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