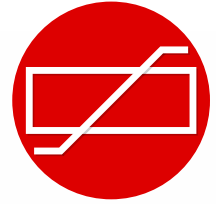


Medium Voltage (9 kv)

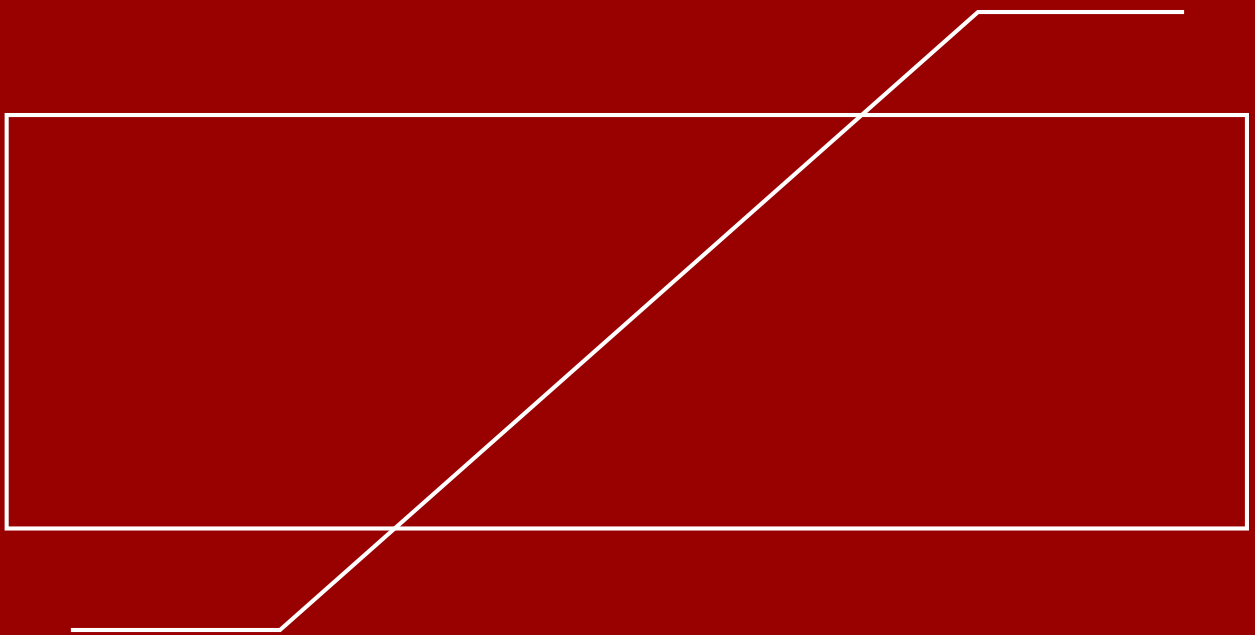


OBLUM
50 YEARS OF EXCELLENCE

Pioneering Cutting-Edge Solutions for Tomorrow



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- Gambia

Medium Voltage (9kv)

INDOOR SPF			
S No	Description	9kv 10kA SL	9kv 10kA SM
	Model	INDOOR	INDOOR
	OUTDOOR/ INDOOR	SPF	SPF
	System earthing	Unearthed	Unearthed
1	Highest system voltage kV rms	7.2	7.2
2	Nominal system voltage kVrms	6.6	6.6
3	Ur –Rated voltage kVrms	9	9
4	Uc –MCOV(kVrms)	7.65	7.65
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	25	24
	b) 10kA	27	26
	c) 20kA	30	29
11	Max. Switch. Imp. RDV (kVp)		
	a) 500A	21.6	
	b) 1000A		20
	c) 2000A		
12	Max. Steep Current impulse RDV (kVp) at NDC	30	29
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	15.9	15.9
	ii. 1.0Sec	15.3	15.3
	iii. 10.0Sec	14.6	14.6
	iv. 100.0Sec	13.9	13.9
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	> 9kV at 2mA	> 9kV 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	9kV 5kA DM	9kV 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	9	9
4	Uc –MCOV(kVrms)	7.65	7.65
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	30	27
	b)10kA	34	29
	c)20kA		32
11	Max. Switch. Imp. RDV(kVp)	NA	NA
	a)500A		
	b)1000A		
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	34	32
13	High current impulse withstand value (4/10 µs) kA	65	100
14	TOV (kVp)		
	i. 0.1	15.9	15.9
	ii.1.0Sec	15.3	15.3
	iii. 10.0Sec	14.6	14.6
	iv. 100.0Sec	13.9	13.9
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	> 9kV at 1mA	> 9kV 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 Kgf	NA	NA

MEDIUM STATION PBW

S No	Description	9kV 10kA SL	9kV 10kA SM
	Model	PBW	PBW
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	7.2	7.2
2	Nominal system voltage kVrms	6.6	6.6
3	Ur –Rated voltage kVrms	9	9
4	Uc –MCOV(kVrms)	7.65	7.65
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	25	24
	b)10kA	27	26
	c)20kA	30	29
11	Max. Switch. Imp. RDV(kVp)		
	a)500A	21.6	
	b)1000A		20
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	30	29
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	15.9	15.9
	ii.1.0Sec	15.3	15.3
	iii. 10.0Sec	14.6	14.6
	iv. 100.0Sec	13.9	13.9
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	> 9kV at 2mA	> 9kV 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	9kV 10kA SL	9kV 10kA SM
	Model	PBC	PBC
	OUTDOOR/ INDOOR		
	System earthing		
1	Highest system voltage kV rms	7.2	7.2
2	Nominal system voltage kVrms	6.6	6.6
3	Ur –Rated voltage kVrms	9	9
4	Uc -MCOV(kVrms)	7.65	7.65
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	25	24
	b)10kA	27	26
	c)20kA	30	29
11	Max. Switch. Imp. RDV(kVp)		
	a)500A	21.6	
	b)1000A		20
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	30	29
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	15.9	15.9
	ii.1.0Sec	15.3	15.3
	iii. 10.0Sec	14.6	14.6
	iv. 100.0Sec	13.9	13.9
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	> 9kV at 2mA	> 9kV 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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