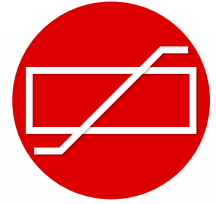


Medium Voltage (4.5kv)

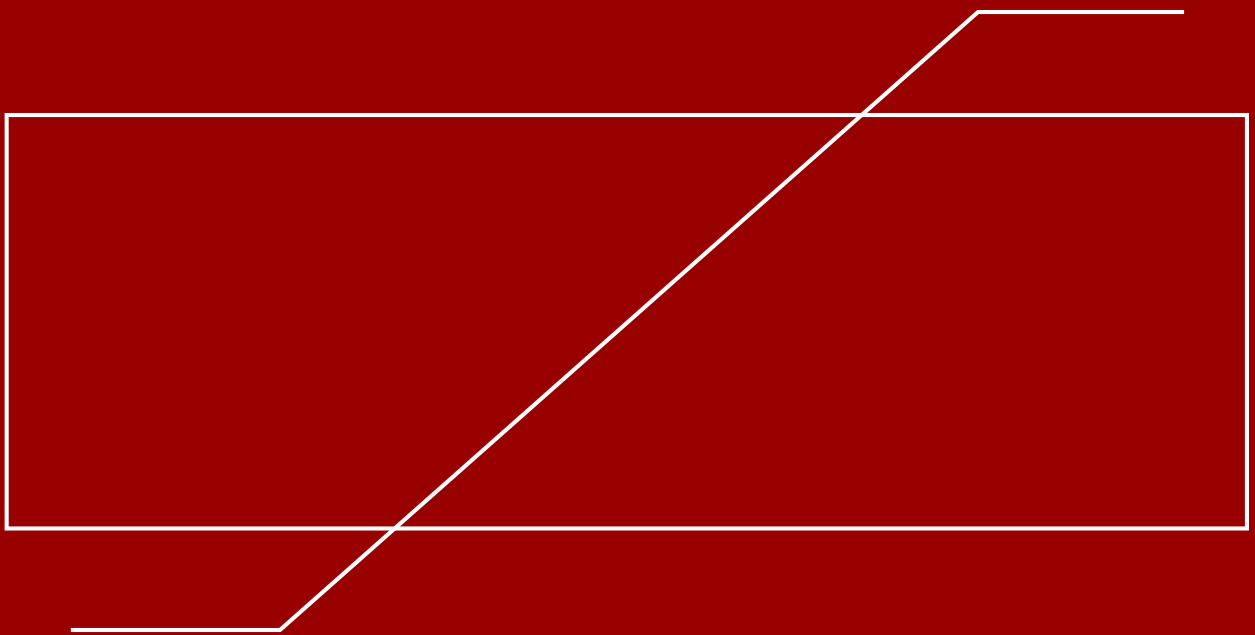


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Medium Voltage (4.5kv)

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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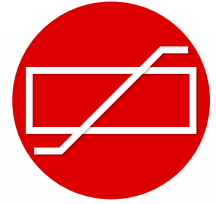
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Medium Voltage (42kv)

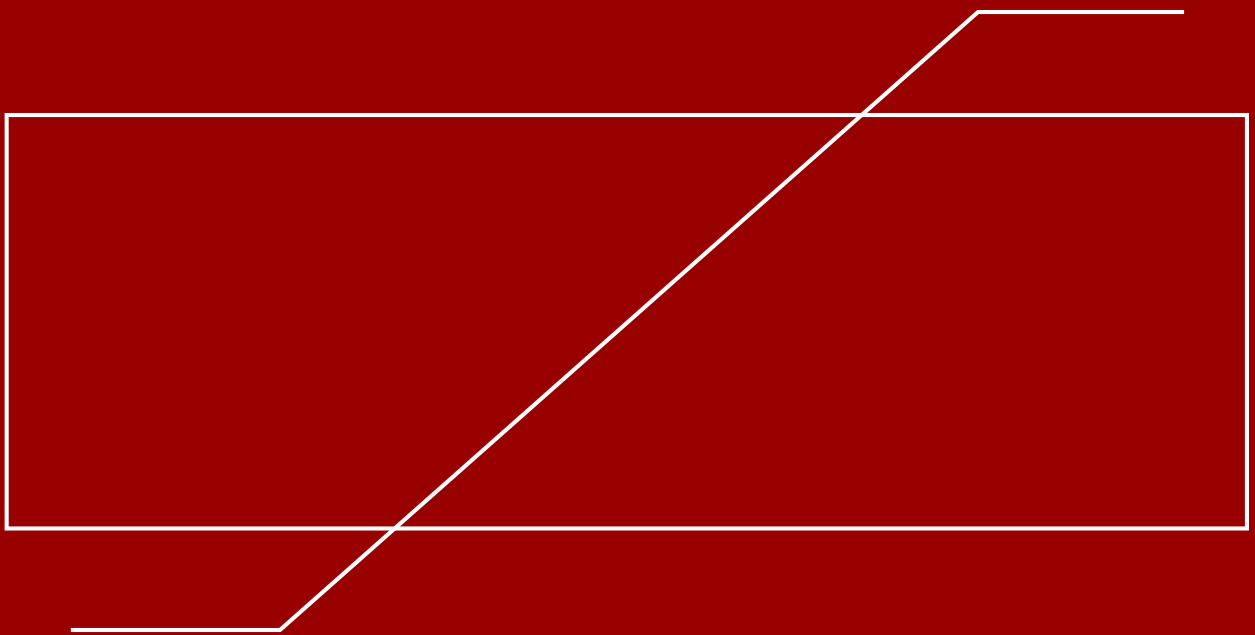


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- Transco Clsg
- Ghana
- Sierra Leone
- Gambia

Medium Voltage (42kv)

INDOOR SPF			
S No	Description	42kV 10kA SL	42kV 10kA SM
	Model	INDOOR	INDOOR
	OUTDOOR/ INDOOR	SPF	SPF
	System earthing	Unearthed	Unearthed
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 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	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 μ 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 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	> 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 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	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 μ 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 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	> 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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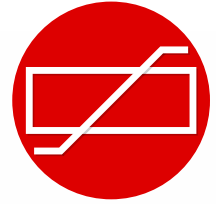
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Medium Voltage (36kv)

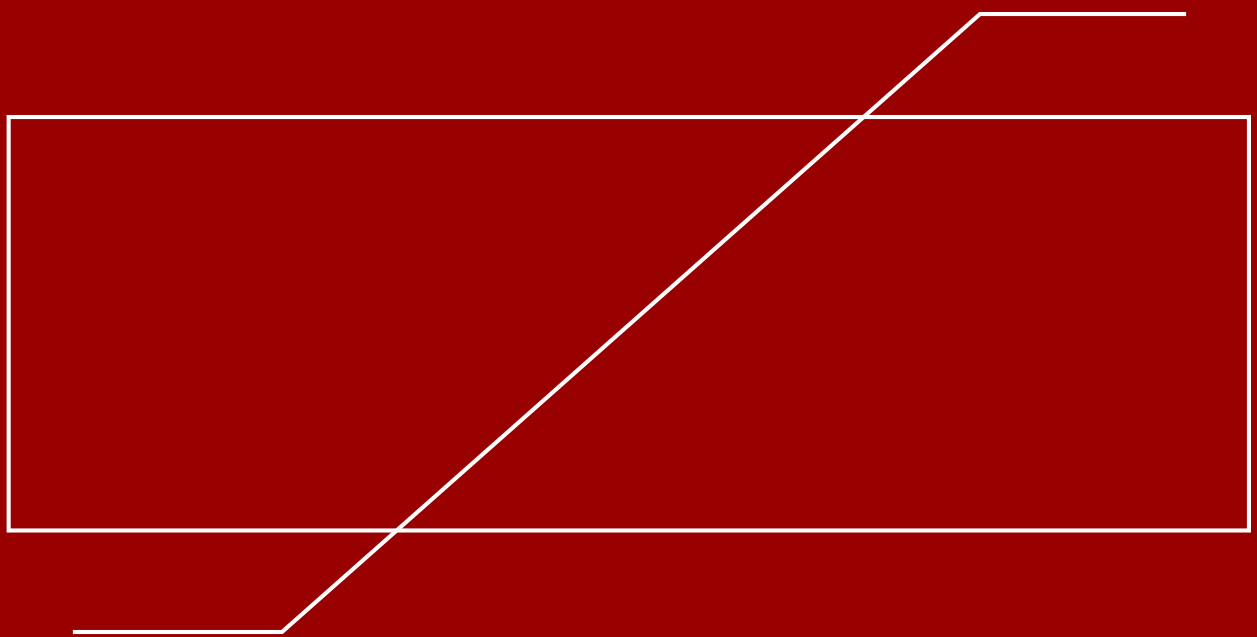


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- Uganda
- South Africa
- Ivory Coast
- Ethiopia
- Botswana
- Liberia
- Transco Clsg
- Ghana
- Sierra Leone
- Gambia

Medium Voltage (36kv)

INDOOR SPF			
S No	Description	36kV 10kA SL	36kV 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	36	36
2	Nominal system voltage kVrms	33	33
3	Ur –Rated voltage kVrms	36	36
4	Uc –MCOV(kVrms)	30.6	30.6
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	102	96
	b) 10kA	108	102
	c) 20kA	120	114
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	86	
	b) 1000A		81
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	120	114
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	63	63
	ii. 1.0Sec	61	61
	iii. 10.0Sec	59	59
	iv. 100.0Sec	56	56
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	> 36kV at 2mA	> 36kV 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	36kV 10kA SL	36kV 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	36	36
4	Uc –MCOV(kVrms)	30.6	30.6
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	102	96
	b) 10kA	108	102
	c) 20kA	120	114
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	86	
	b) 1000A		81
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	120	114
13	High current impulse withstand value (4/10 μ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	63	63
	ii.1.0Sec	61	61
	iii. 10.0Sec	59	59
	iv. 100.0Sec	56	56
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	> 36kV at 2mA	> 36kV 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	36kV 10kA SL	36kV 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	36	36
4	Uc –MCOV(kVrms)	30.6	30.6
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	102	96
	b) 10kA	108	102
	c) 20kA	120	114
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	86	
	b) 1000A		81
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	120	114
13	High current impulse withstand value (4/10 μ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	63	63
	ii. 1.0Sec	61	61
	iii. 10.0Sec	59	59
	iv. 100.0Sec	56	56
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 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	> 36kV at 2mA	> 36kV 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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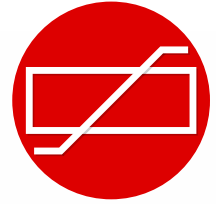
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Medium Voltage (30kv)

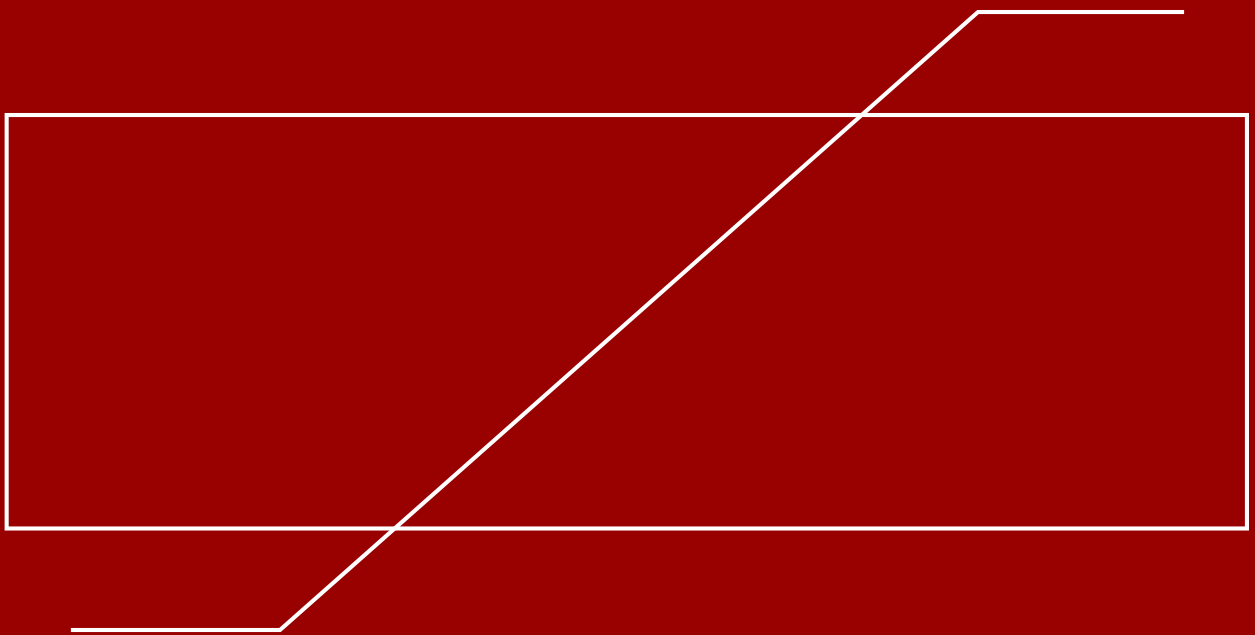


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- Ghana
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- Gambia

Medium Voltage (30kv)

INDOOR SPF			
S No	Description	30kV 10kA SL	30kV 10kA SM
	Model	INDOOR	INDOOR
	OUTDOOR/ INDOOR	SPF	SPF
	System earthing	Unearthed	Unearthed
1	Highest system voltage kV rms	24	24
2	Nominal system voltage kVrms	22	22
3	Ur –Rated voltage kVrms	30	30
4	Uc –MCOV(kVrms)	25	25
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	85	80
	b) 10kA	90	85
	c) 20kA	100	95
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	72	
	b) 1000A		68
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	100	95
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	53	53
	ii.1 .0Sec	51	51
	iii. 10.0Sec	49	49
	iv. 100.0Sec	47	47
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	> 30kV at 2mA	> 30kV 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	30kV 10kA DH
	Model	PBW
	OUTDOOR/ INDOOR	
	System earthing	
1	Highest system voltage kV rms	36
2	Nominal system voltage kVrms	33
3	Ur –Rated voltage kVrms	30
4	Uc –MCOV(kVrms)	25
5	In –NDC (8/20 μ s) kA	10
6	Arrester classification	Distriution 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	90
	b) 10kA	95
	c) 20kA	105
11	Max. Switch. Imp. RDV(kVp)	NA
	a) 500A	
	b) 1000A	
	c) 2000A	
12	Max. Steep Current impulse RDV(kVp) at NDC	105
13	High current impulse withstand value (4/10 μ s) kA	100
14	TOV (kVp)	
	i. 0.1	53
	ii. 1.0Sec	51
	iii. 10.0Sec	49
	iv. 100.0Sec	47
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 μ A	Less than 400
	b. IC at MCOV in mA	About 1.2
19	Reference voltage in Volt at Reference current in mA	> 30kV 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	30kV 10kA SL	30kV 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	30	30
4	Uc –MCOV(kVrms)	25	25
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	85	80
	b) 10kA	90	85
	c) 20kA	100	95
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	72	
	b) 1000A		68
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	100	95
13	High current impulse withstand value (4/10 μ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	53	53
	ii. 1.0Sec	51	51
	iii. 10.0Sec	49	49
	iv. 100.0Sec	47	47
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	> 30kV at 2mA	> 30kV 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	30kV 10kA SL	30kV 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	30	30
4	Uc –MCOV(kVrms)	25	25
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	85	80
	b) 10kA	90	85
	c) 20kA	100	95
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	72	
	b) 1000A		68
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	100	95
13	High current impulse withstand value (4/10 μ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	53	53
	ii. 1.0Sec	51	51
	iii. 10.0Sec	49	49
	iv. 100.0Sec	47	47
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 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	> 30kV at 2mA	> 30kV 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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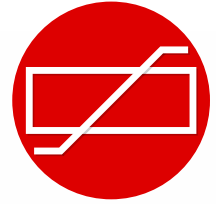
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Medium Voltage (24kv)

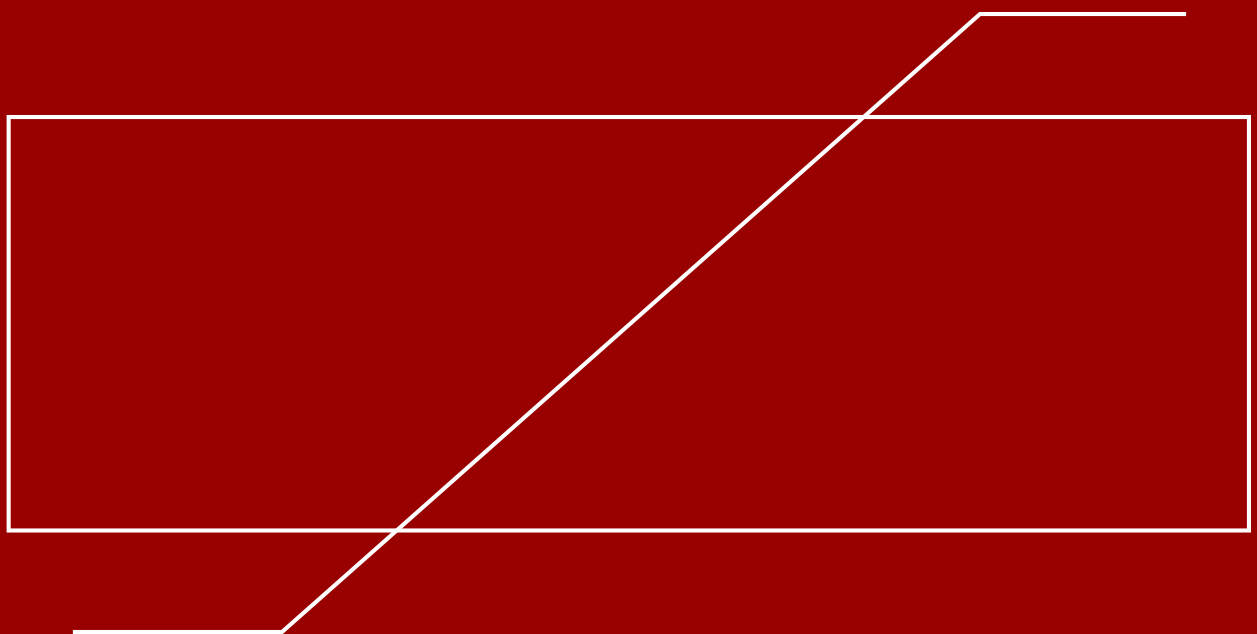


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- Congo
- Tanzania
- Uganda
- South Africa
- Ivory Coast
- Ethiopia
- Botswana
- Liberia
- Transco Clsg
- Ghana
- Sierra Leone
- Gambia

Medium Voltage (24kv)

INDOOR SPF			
S No	Description	24kv 10kA SL	24kv 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	24	24
2	Nominal system voltage kVrms	22	22
3	Ur –Rated voltage kVrms	24	24
4	Uc –MCOV(kVrms)	20	20
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	68	64
	b) 10kA	72	68
	c) 20kA	80	76
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	57	
	b) 1000A		54
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	80	76
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	42	42
	ii. 1.0Sec	41	41
	iii. 10.0Sec	39	39
	iv. 100.0Sec	37	37
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	> 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	24kV 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	24
4	Uc –MCOV(kVrms)	20
5	In –NDC (8/20µs) kA	10
6	Arrester classification	Distriution 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	72
	b)10kA	76
	c)20kA	84
11	Max. Switch. Imp. RDV(kVp)	NA
	a)500A	
	b)1000A	
	c) 2000A	
12	Max. Steep Current impulse RDV(kVp) at NDC	84
13	High current impulse withstand value (4/10 µs) kA	100
14	TOV (kVp)	
	i. 0.1	42
	ii.1.0Sec	41
	iii. 10.0Sec	39
	iv. 100.0Sec	37
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 µA	Less than 400
	b. IC at MCOV in mA	About 1.2
19	Reference voltage in Volt at Reference current in mA	> 24kV 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	24kV 10kA SL	24kV 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	24	24
4	Uc –MCOV(kVrms)	20	20
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	68	64
	b) 10kA	72	68
	c) 20kA	80	76
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	57	
	b) 1000A		54
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	80	76
13	High current impulse withstand value (4/10 μ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	42	42
	ii. 1.0Sec	41	41
	iii. 10.0Sec	39	39
	iv. 100.0Sec	37	37
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	> 24kV at 2mA	> 24kV 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	24kV 10kA SL	24kV 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	24	24
4	Uc –MCOV(kVrms)	20	20
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	68	64
	b)10kA	72	68
	c)20kA	80	76
11	Max. Switch. Imp. RDV(kVp)		
	a)500A	57	
	b)1000A		54
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	80	76
13	High current impulse withstand value (4/10 μ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	42	42
	ii.1.0Sec	41	41
	iii. 10.0Sec	39	39
	iv. 100.0Sec	37	37
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 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	> 24kV at 2mA	> 24kV 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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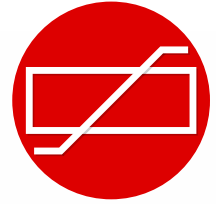
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Medium Voltage (18kv)

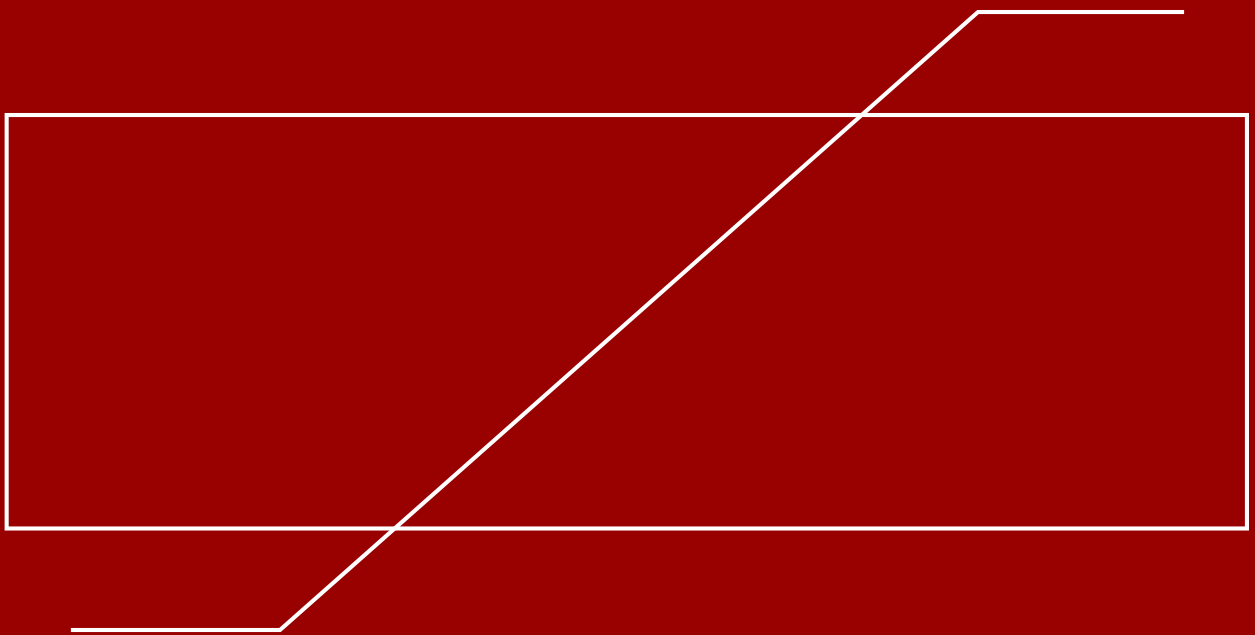


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- Ethiopia
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- Liberia
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- Ghana
- Sierra Leone
- Gambia

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 μ s) kA	10
6	Arrester classification	Distriution 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 μ 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 μ 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 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	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 μ 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 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	> 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

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 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	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 μ 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 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	> 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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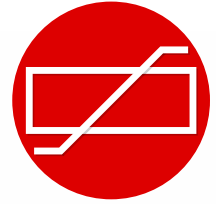
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Medium Voltage (15kv)

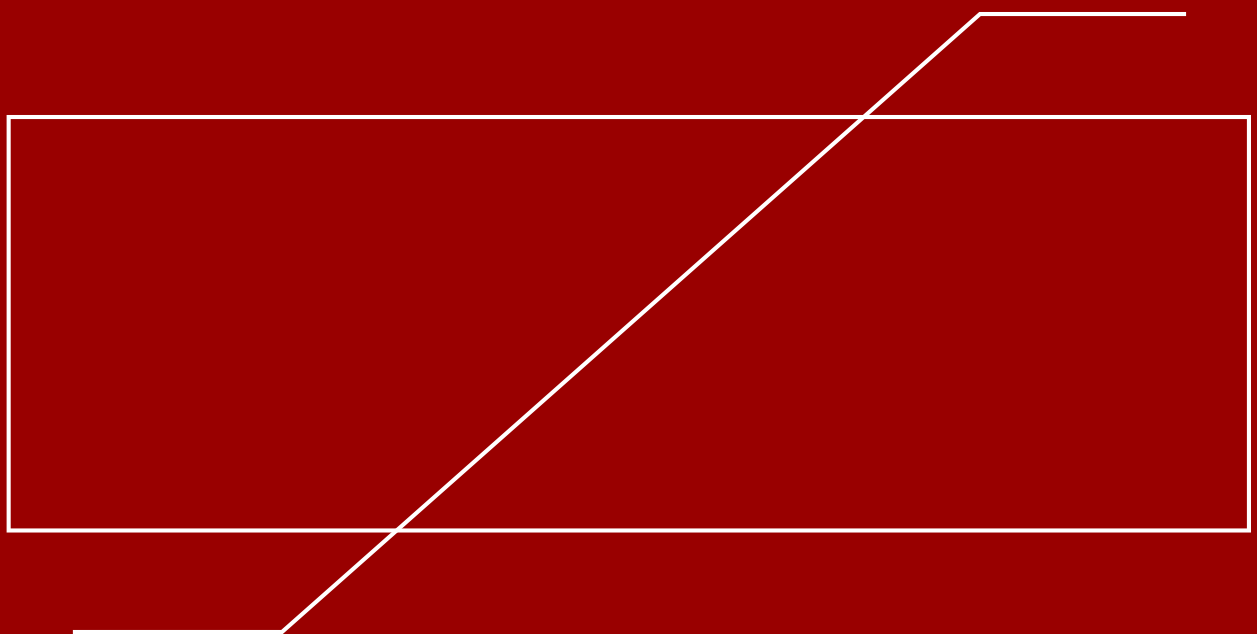


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- South Africa
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- Botswana
- Liberia
- Transco Clsg
- Ghana
- Sierra Leone
- Gambia

Medium Voltage (15kv)

INDOOR SPF			
S No	Description	15kV 10kA SL	15kV 10kA SM
	Model	INDOOR	INDOOR
	OUTDOOR/ INDOOR	SPF	SPF
	System earthing	Unearthed	Unearthed
1	Highest system voltage kV rms	12	12
2	Nominal system voltage kVrms	11	11
3	Ur –Rated voltage kVrms	15	15
4	Uc –MCOV(kVrms)	12	12
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	42	40
	b) 10kA	45	42
	c) 20kA	50	47
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	36	
	b) 1000A		33
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	50	47
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	27	27
	ii. 1.0Sec	25	25
	iii. 10.0Sec	24	24
	iv. 100.0Sec	23	23
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	> 15kV at 2mA	> 15kV 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	15kV 10kA DH
	Model	PBW
	OUTDOOR/ INDOOR	
	System earthing	
1	Highest system voltage kV rms	12
2	Nominal system voltage kVrms	11
3	Ur - Rated voltage kVrms	15
4	Uc - MCOV (kVrms)	12
5	In - NDC (8/20 μ s) kA	10
6	Arrester classification	Distriution 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	45
	b) 10kA	47
	c) 20kA	52
11	Max. Switch. Imp. RDV (kVp)	NA
	a) 500A	
	b) 1000A	
	c) 2000A	
12	Max. Steep Current impulse RDV (kVp) at NDC	52
13	High current impulse withstand value (4/10 μ s) kA	100
14	TOV (kVp)	
	i. 0.1	27
	ii. 1.0Sec	25
	iii. 10.0Sec	24
	iv. 100.0Sec	23
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 μ A	Less than 400
	b. IC at MCOV in mA	About 1.2
19	Reference voltage in Volt at Reference current in mA	> 15kV 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	15kV 10kA SL	15kV 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	15	15
4	Uc –MCOV(kVrms)	12	12
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	42	40
	b) 10kA	45	42
	c) 20kA	50	47
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	36	
	b) 1000A		33
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	50	47
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	27	27
	ii. 1.0Sec	25	25
	iii. 10.0Sec	24	24
	iv. 100.0Sec	23	23
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	> 15kV at 2mA	> 15kV 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	15kV 10kA SL	15kV 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	15	15
4	Uc –MCOV(kVrms)	12	12
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	42	40
	b) 10kA	45	42
	c) 20kA	50	47
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	36	
	b) 1000A		33
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	50	47
13	High current impulse withstand value (4/10 μ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	27	27
	ii. 1.0Sec	25	25
	iii. 10.0Sec	24	24
	iv. 100.0Sec	23	23
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 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	> 15kV at 2mA	> 15kV 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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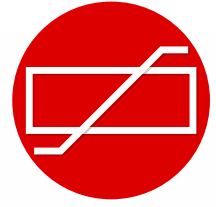
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Medium Voltage (7.5kv)

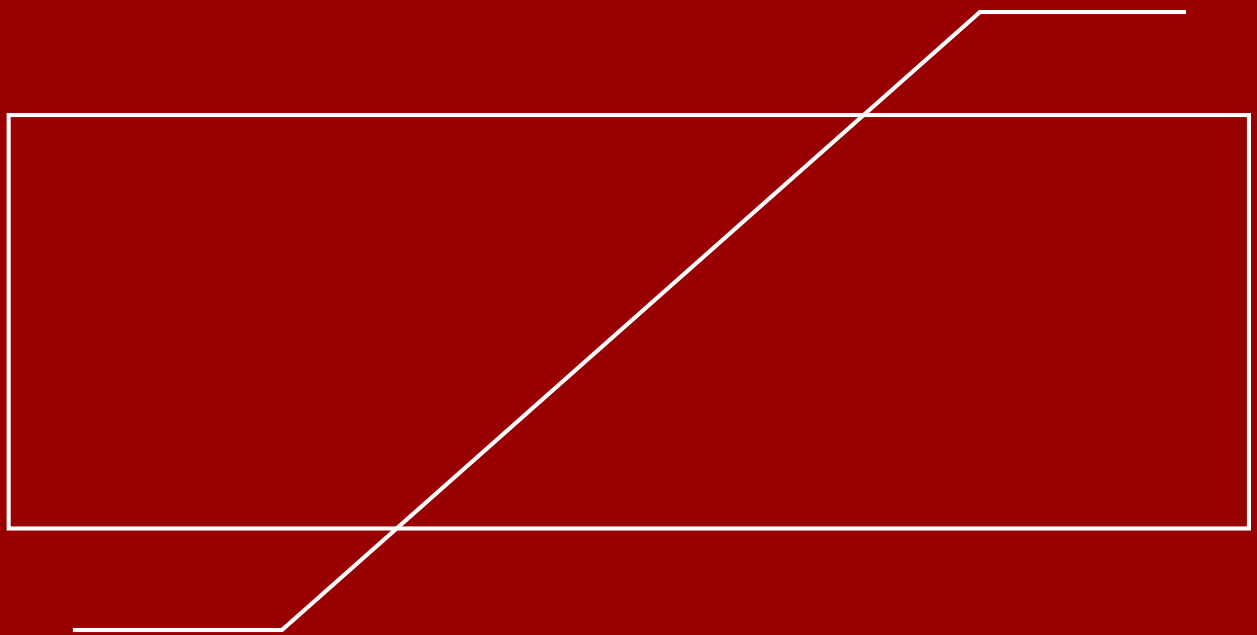


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- Burkina Faso
- Mozambique
- Congo
- Tanzania
- Uganda
- South Africa
- Ivory Coast
- Ethiopia
- Botswana
- Liberia
- Transco Clsg
- Ghana
- Sierra Leone
- Gambia

Medium Voltage (7.5kv)

INDOOR SPF			
S No	Description	7.5kV 10kA SL	7.5kV 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	7.2	7.2
2	Nominal system voltage kVrms	6.6	6.6
3	Ur –Rated voltage kVrms	7.5	7.5
4	Uc –MCOV(kVrms)	6.3	6.3
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	21	20
	b) 10kA	23	22
	c) 20kA	25	24
11	Max. Switch. Imp. RDV(kVp)		
	a) 500A	18.4	
	b) 1000A		18
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	25	24
13	High current impulse withstand value (4/10 µs) kA	100kA	100kA
14	TOV (kVp)		
	i. 0.1	13.2	13.2
	ii. 1.0Sec	12.7	12.7
	iii. 10.0Sec	12.1	12.1
	iv. 100.0Sec	11.6	11.6
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	> 7.5kV at 2mA	> 7.5kV 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	7.5kV 5kA DM	7.5kV 10kA DH
	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	7.5	7.5
4	Uc –MCOV(kVrms)	6.3	6.3
5	In –NDC (8/20µs) kA	5	10
6	Arrester classification	Distribution Medium Duty	Distrination 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	25	23
	b) 10kA	29	24
	c) 20kA		27
11	Max. Switch. Imp. RDV(kVp)	NA	NA
	a) 500A		
	b) 1000A		
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	29	27
13	High current impulse withstand value (4/10 µs) kA	65	100
14	TOV (kVp)		
	i. 0.1	13.2	13.2
	ii. 1.0Sec	12.7	12.7
	iii. 10.0Sec	12.1	12.1
	iv. 100.0Sec	11.6	11.6
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	> 7.5kV at 1mA	> 7.5kV 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 Kgf	NA	NA

MEDIUM STATION PBW

S No	Description	7.5kV 10kA SL	7.5kV 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	7.5	7.5
4	Uc –MCOV(kVrms)	6.3	6.3
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	21	20
	b)10kA	23	22
	c)20kA	25	24
11	Max. Switch. Imp. RDV(kVp)		
	a)500A	18.4	
	b)1000A		18
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	25	24
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	13.2	13.2
	ii.1.0Sec	12.7	12.7
	iii. 10.0Sec	12.1	12.1
	iv. 100.0Sec	11.6	11.6
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	> 7.5kV at 2mA	> 7.5kV 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	7.5kV 10kA SL	7.5kV 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	7.5	7.5
4	Uc –MCOV(kVrms)	6.3	6.3
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	21	20
	b)10kA	23	22
	c)20kA	25	24
11	Max. Switch. Imp. RDV(kVp)		
	a)500A	18.4	
	b)1000A		18
	c) 2000A		
12	Max. Steep Current impulse RDV(kVp) at NDC	25	24
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	13.2	13.2
	ii.1.0Sec	12.7	12.7
	iii. 10.0Sec	12.1	12.1
	iv. 100.0Sec	11.6	11.6
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	> 7.5kV at 2mA	> 7.5kV 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 Kg	150	150

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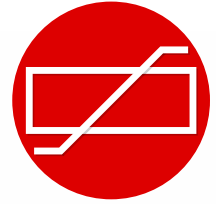
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Medium Voltage (12kv)

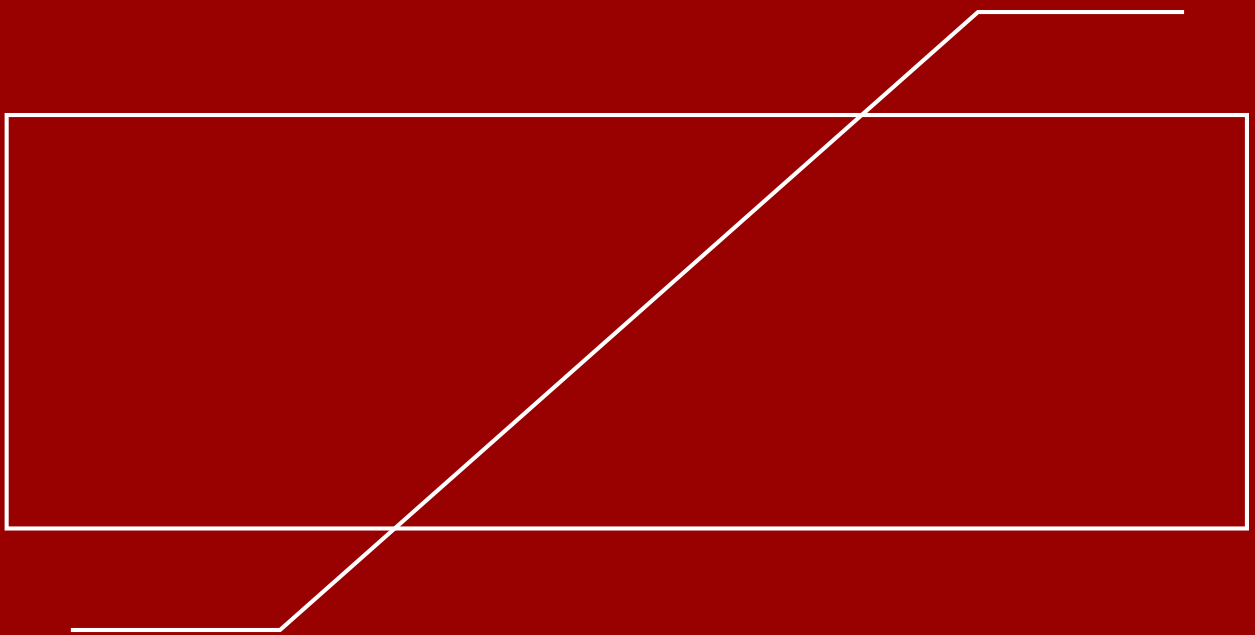


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- Ivory Coast
- Ethiopia
- Botswana
- Liberia
- Transco Clsg
- Ghana
- Sierra Leone
- Gambia

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 Kg	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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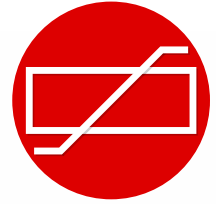
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Medium Voltage (9 kv)

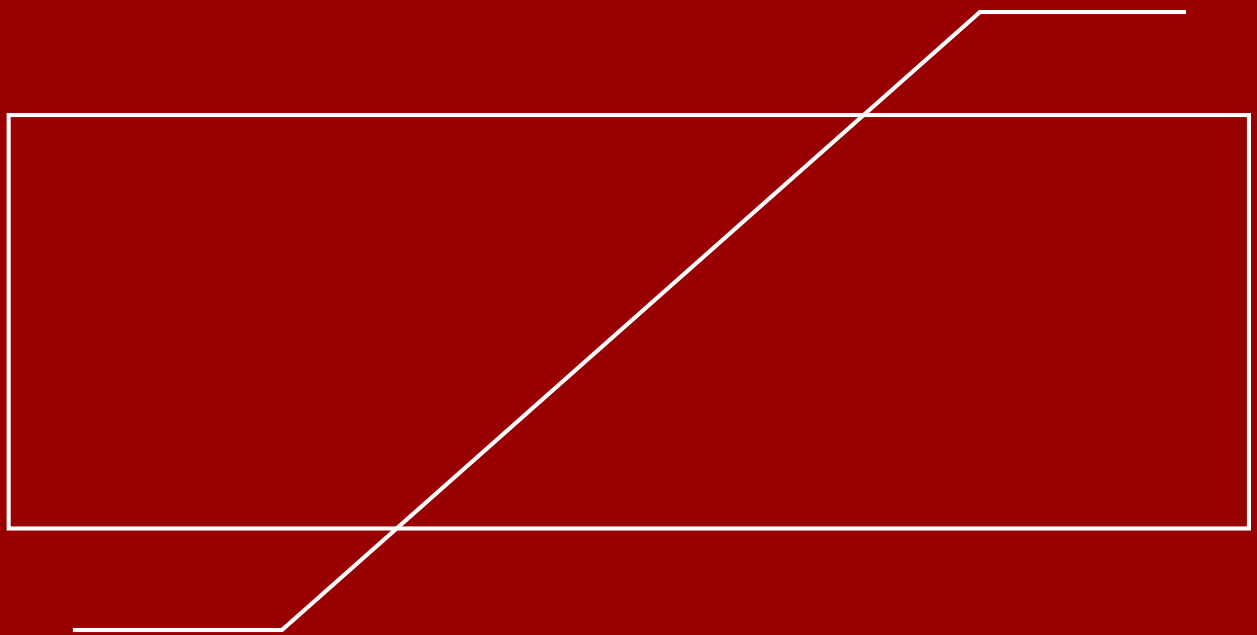


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- Congo
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- Uganda
- South Africa
- Ivory Coast
- Ethiopia
- Botswana
- Liberia
- Transco Clsg
- Ghana
- Sierra Leone
- Gambia

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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