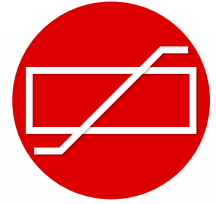


Extra High Voltage

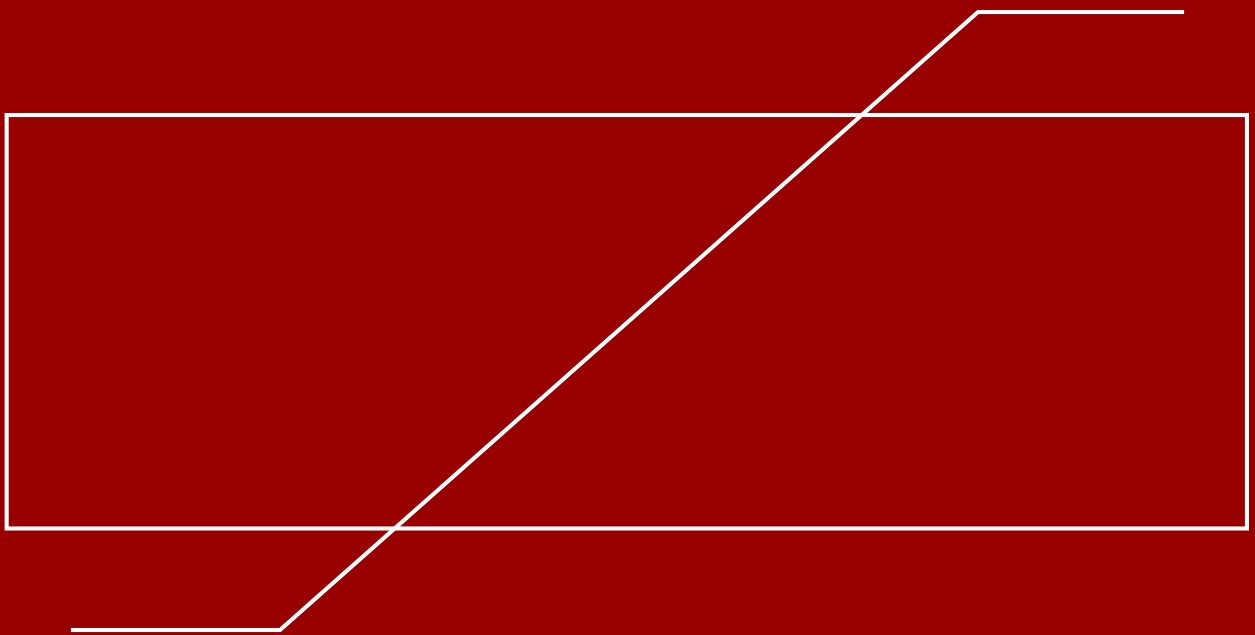


**OBLUM**  
50 YEARS OF EXCELLENCE

# 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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- Bhutan
- Malaysia
- Nepal
- Uganda
- Uae
- Afghanistan
- Vietnam
- Sharjah
- Nigeria
- Colombo
- Kabul
- Jordan
- Kenya
- Yemen
- Dubai
- Armenia
- Georgia
- Japan
- Kuwait

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- Paraguay

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

# Extra High Voltage (390kv)

S No	Description	EHV	
		390kV 20kA SH	390kV 20kA SH
	Model	PAT	PBC
1	Highest system voltage kV rms	420	420
2	Nominal system voltage kVrms	400	400
3	Ur –Rated voltage kVrms	390	390
4	Uc –MCOV(kVrms)	303	303
5	In –NDC (8/20 $\mu$ s) kA	20	20
6	Arrester classification	Station High Duty	Station High Duty
7	Qrs(IEC 99-4 Ed.3) in coulomb	2.4	2.4
8	Wth (IEC 99-4 Ed.3) in kJ/kV	10	10
9	Qth (IEC 99-4 Ed.3) in coulomb		
10	Max RDV kVp		
	a)5kA		
	b)10kA	900	900
	c)20kA	975	975
11	Max. Switch. Imp. R.V.(kVp)		
	a)500A		
	b)1000A		
	c) 2000A	780	780
12	Max. Steep Current impulse RDV(kVp) at NDC	1050	1050
13	High current impulse withstand value (4/10 $\mu$ s) kA	100	100
14	TOV (kVp)		
	i. 0.1	689	689
	ii.1.0Sec	662	662
	iii. 10.0Sec	634	634
	iv. 100.0Sec	607	607
15	Short circuit current kA	40/50/63 as applicable	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 500	Less than 500
	b. IC at MCOV in mA	About 1.5	About 1.5
19	Reference voltage in Volt at Reference current in mA	> 390kV at 4mA	> 390kV at 4mA
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	350/500 (as applicable)	150

# Extra High Voltage (360kv)

S No	Description	EHV	
		360kV 20kA SH	360kV 20kA SH
	Model	PAT	PBC
1	Highest system voltage kV rms	420	420
2	Nominal system voltage kVrms	400	400
3	Ur –Rated voltage kVrms	360	360
4	Uc -MCOV(kVrms)	303	303
5	In –NDC (8/20µs) kA	20	20
6	Arrester classification	Station High Duty	Station High Duty
7	Qrs(IEC 99-4 Ed.3) in coulomb	2.4	2.4
8	Wth (IEC 99-4 Ed.3) in kJ/kV	10	10
9	Qth (IEC 99-4 Ed.3) in coulomb		
10	Max RDV kVp		
	a) 5kA		
	b) 10kA	900	900
	c) 20kA	975	975
11	Max. Switch. Imp. R.V.(kVp)		
	a) 500A		
	b) 1000A		
	c) 2000A	780	780
12	Max. Steep Current impulse RDV(kVp) at NDC	1050	1050
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	636	636
	ii. 1.0Sec	610	610
	iii. 10.0Sec	585	585
	iv. 100.0Sec	560	560
15	Short circuit current kA	40/50/63 as applicable	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 500	Less than 500
	b. IC at MCOV in mA	About 1.5	About 1.5
19	Reference voltage in Volt at Reference current in mA	> 360kV at 4mA	> 360kV at 4mA
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	350/500 (as applicable)	150

# Extra High Voltage (336kv)

S No	Description	EHV	
		336kV 20kA SH	336kV 20kA SH
	Model	PAT	PBC
1	Highest system voltage kV rms	420	420
2	Nominal system voltage kVrms	400	400
3	Ur –Rated voltage kVrms	336	336
4	Uc –MCOV(kVrms)	267	267
5	In –NDC (8/20µs) kA	20	20
6	Arrester classification	Station High Duty	Station High Duty
7	Qrs(IEC 99-4 Ed.3) in coulomb	2.4	2.4
8	Wth (IEC 99-4 Ed.3) in kJ/kV	10	10
9	Qth (IEC 99-4 Ed.3) in coulomb		
10	Max RDV kVp		
	a)5kA		
	b)10kA	800	800
	c)20kA	850	850
11	Max. Switch. Imp. R.V.(kVp)		
	a)500A		
	b)1000A		
	c) 2000A	670	670
12	Max. Steep Current impulse RDV(kVp) at NDC	925	925
13	High current impulse withstand value (4/10 µs) kA	100	100
14	TOV (kVp)		
	i. 0.1	594	594
	ii.1.0Sec	570	570
	iii. 10.0Sec	546	546
	iv. 100.0Sec	522	522
15	Short circuit current kA	40/50/63 as applicable	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 500	Less than 500
	b. IC at MCOV in mA	About 1.5	About 1.5
19	Reference voltage in Volt at Reference current in mA	> 336kV at 4mA	> 336kV at 4mA
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	350/500 (as applicable)	150

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