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## Silicone Rubber Housed Surge Arresters For indoor use



#### **Main Features**

The arrester has a 10kA duty cycle performance to IEC 99-5 1996 respectively EN 60099-5/1997. The patented void free construction of this arrester design results in a unit with high strength which is impervious to the ingress of moisture.

The arrester has the following features.

- •No internal airspace so no moisture ingress.
- •Vandal proof.
- •High cantilever and torsional strength.
- Non-explosive failure mode.
- •Arrester can be used for a support insulator.
- •Low weight and small size.
- •Resistant to transport damage and careless handling.
- •Easy to install.

#### **Electrical Performance**

Classification-10,000 AmpsVoltage Rating-3kV to 51kVHigh Current Operation Duty-100kALine Discharge Class-1Energy Withstand-2,8kJ/kV



Distance line to earth part (Y) Distance to connected line (X) (parts under voltage)

<b>«»</b>						
			Arrester Type ref.	Recommended	* Recommended	Rec. min. centre
		Kij /		minimum distance	minimum distance	distance between
( )		0		line to Earth	Earth to line	phases
(A)				(X) mm	(Y) mm	(mm)
			SBK-015/10.1	82	120	200
			SBK-021/10.1	114	160	255
			SBK-030/10.1	0.SB clause 2 part 4	15 2 7 190	340
X .		X	SBK-036/10.1	196	260	400
<u>∗</u> >		· · · · · · · · · · · · · · · · · · ·	- SBK 045/10.1	244	470	480
Sec. 1		50 mm				
····· ···· ···· ····· ······						
	158K-0 30/5 4					

Line connection

--∡--50 mm

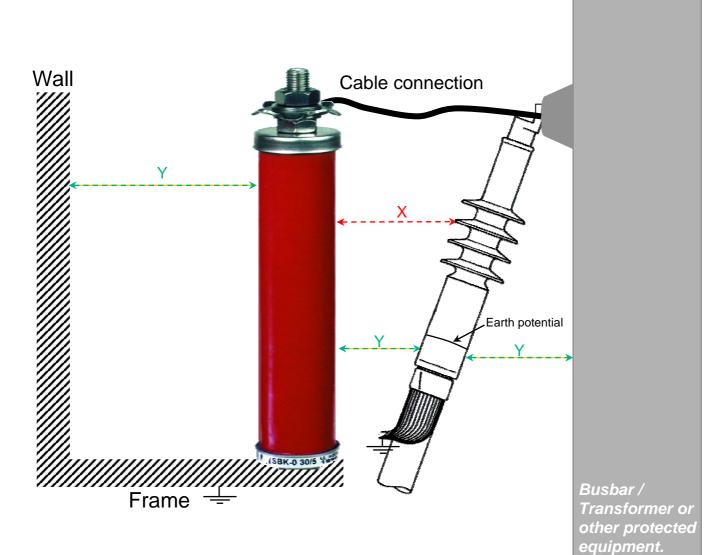
[	Rated		Continuous Operating Voltage (COV) kV	Temporary over-voltage Capability for 1 sec. (TOV) kV	Max. Residual voltage with current wave				Steep	Overall	
	Voltage kV				Switching surge		8/20 μS			current residual	Height / Creepage
	ΝV				250 A Kv crest	500 A kV crest	5 kA kV crest	10 kA kV crest	20 kA kV crest	voltage 10 kA kV crest	(A) mm (max)
	15,0	SBK-015/10.1	12,0	16,1	30,1	31,2	37,2	40,0	44,4	42,8	162/ 138
	21,0	SBK-021/10.1	17,0	22,5	43,7	45,2	53,9	58,0	64,4	62,1	204 / 168
	30,0	SBK-030/10.1	24,0	32,1	60,2	62,4	74,4	80,0	88,8	85,6	254 / 228
	36,0	SBK-036/10.1	28,8	38,5	73,8	76,4	91,1	98,0	108,8	104,9	362 / 318
	45,0	SBK-045/10.1	36,0	48,2	90,4	93,6	111,6	120,0	133,2	128,4	414 / 388
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### **General installation instructions**

The cable connection must be as short and straight as possible. It is recommended to install the arresters at the lowest ambient temperature at the bottom of the switch board / transformer cubicle.



A shorter distance of Y equal to X may be accepted in agreement with the application engineer, due to the fact that the arrester offers an isolation co-ordination.