



Bowthorpe EMP Transmission Surge Arrester

PCA Range

Metal oxide arrester (ZnO) Polymeric Housing Outdoor application IEC 60099-4; 2014

Nominal discharge current: 10 kA

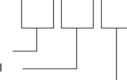
Designation class SM

Charge current rate (Qrs): 2.2 C (Impulse) High current impulse 4/10 µs: 100 kA

Energy Capability (Wth): 7.8 kJ/kV at U_r (Thermal)

PCA1-30

Line Terminal
Ground Terminal
Mounting



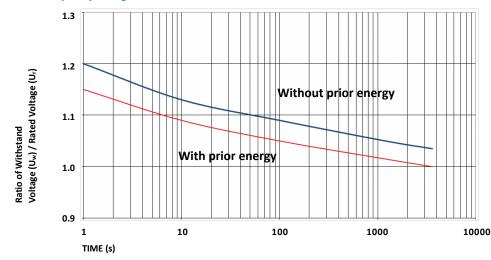
Surge Arrester Characteristics

U _r :	30	kV
U _c :	24.0	kV
T _r :	34.5	kV for 1s
	32.7	kV for 10s
	65	kA
		_
	2.0	kNm
	2.5	kNm
	275	kV
	101	kV
	406	mm
	1100	mm
	320	mm
	160	mm
	400	mm
	10	kg
	<u>U_c:</u>	U _c : 24.0 T _r : 34.5 32.7 65 2.0 2.5 275 101 406 1100 320 160 400

Maximum Residual Voltages

Lightning current impulse 8/20 μs			Steep lightning current impulse 1/20 µs		Switching current impulse 30/60 μs						
5 kA	10 kA	20 kA	40 kA	10 kA	20 kA	125 A	250 A	500 A	1000 A	2000 A	3000A
68.4 kV	72.0 kV	77.8 kV	86.4 kV	75.6 kV	81.1 kV	56.2 kV	57.6 kV	59.0 kV	61.2 kV	63.5 kV	65.5 kV

Power frequency voltage versus time



Marking

PCA1-30
U_r: 30.0 kV U_c: 24.0 kV
IEC 60099-4
Designation SM
I_{SC} 65 kA
Serial No
Energy 7.8 kJ/kV-Ur
Nom Disc Curr 10 kA
Qrs: 2.2 C
Manufacturing Year

Technical Information: - Contact Product Management Brighton UK (+44 (0)1793 572399)