

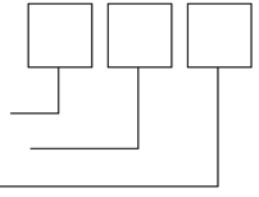
Bowthorpe EMP Transmission Surge Arrester

PBA Range

Metal oxide arrester (ZnO)
Polymeric Housing
Outdoor application
IEC 60099-4; 2014
Nominal discharge current: 10 kA
Designation class SL
Charge current rate (Qrs): 1.6 C (Impulse)
High current impulse 4/10 μ s: 100 kA
Energy Capability (Wth):
6.7 kJ/kV at U_r (Thermal)

PBA2-54

Line Terminal
Ground Terminal
Mounting



Surge Arrester Characteristics

Rated voltage	U_c	54	kV
Continuous operating voltage	U_c	43.2	kV
TOV Capability (With prior energy)	T_c	61.5	kV for 1s
		58.8	kV for 10s
Rated short circuit current		65	kA
Cantilever Load			
Safe long-term load (SLL)		0.6	kNm
Safe short-term load (SSL)		1.0	kNm
Dry impulse voltage - 1,2/50 μ s		354	kV
Wet power frequency voltage		184	kV
Flashover Distance		621	mm
Creepage Length		1948	mm
Minimum distance between Phase Centers		558	mm
Minimum distance between Phase to Earth		480	mm
Height		604	mm
Approx. Weight		10.0	kg

Maximum Residual Voltages

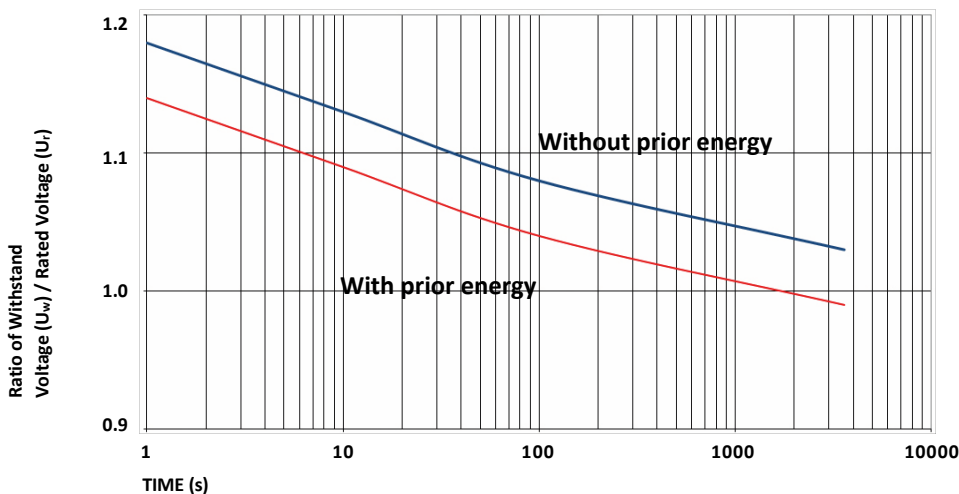
Lightning current impulse
8/20 μ s

Steep lightning
current impulse
1/20 μ s

Switching current
impulse 30/60 μ s

1.5 kA	3 kA	5 kA	10 kA	15 kA	20 kA	10 kA	125 A	250 A	500 A	1000 A	2000 A	3000 A
119 kV	125 kV	128 kV	136 kV	145 kV	150 kV	143 kV	103 kV	107 kV	110 kV	113 kV	119 kV	123 kV

Power frequency voltage versus time



Marking

PBA2-54
 U_r : 54.0 kV U_c : 43.2 kV
IEC 60099-4
Designation SL
 I_{sc} 65 kA
Serial No
Energy 6.7 kJ/kV- U_r
Nom Disc Curr 10 kA
Qrs: 1.6C
Manufacturing Year

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

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