

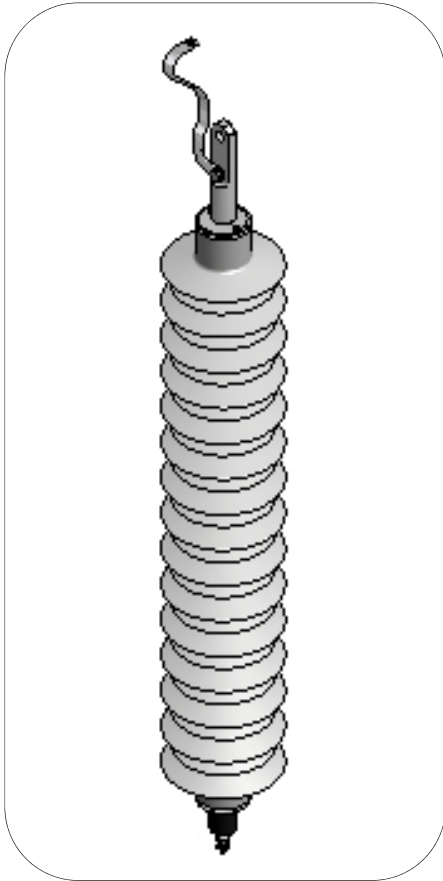
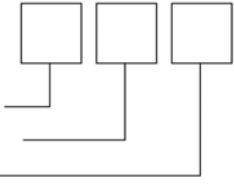
Bowthorpe EMP Transmission Surge Arrester

TLPCA Range

Metal oxide arrester (ZnO)
 Polymeric Housing
 Outdoor application
 IEC 60099-4; 2014
 Nominal discharge current: 10 kA
 Designation class SM (LD cl 3)
 Charge current rate (Qrs): 2.2 C
 High current impulse 4/10 μ s: 100 kA
 Energy Capability (Wth):
 7.8 kJ/kV at U_r

TLPCA3E-96

Line Terminal
 Ground Terminal
 Mounting



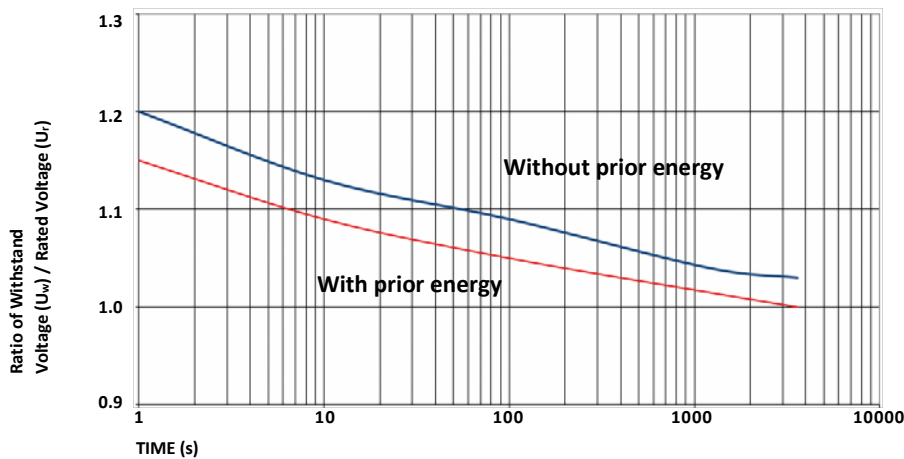
Surge Arrester Characteristics

| | | | |
|----------------------------------|---------|------|------------|
| Rated voltage | U_r : | 96 | kV |
| Continuous operating voltage | U_c : | 77 | kV |
| TOV Capability | T_r : | 110 | kV for 1s |
| | | 105 | kV for 10s |
| Rated short circuit current | | 65 | kA |
| Cantilever Load | | | |
| Safe long-term load (SLL) | | 2.0 | kNm |
| Safe short-term load (SSL) | | 2.5 | kNm |
| Impulse voltage - 1,2/50 μ s | | 672 | kV |
| Power frequency voltage - wet | | 360 | kV |
| Flashover Distance | | 1113 | mm |
| Creepage Length | | 4500 | mm |
| Height | | 1085 | mm |
| Approx. Weight | | 27 | 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 | | | | | |
|---|--------|--------|--------|--|--------|--|--------|--------|--------|--------|--------|
| 5 kA | 10 kA | 20 kA | 40 kA | 10 kA | 20 kA | 125 A | 250 A | 500 A | 1000 A | 2000 A | 3000A |
| 219 kV | 230 kV | 249 kV | 246 kV | 242 kV | 260 kV | 180 kV | 184 kV | 189 kV | 196 kV | 203 kV | 210 kV |

Power frequency voltage versus time



Marking

ZnO - Surge - Arrester
 I_{sc} 65 kA
 I_N 10 kA, SM
 TLPCA3E-96
 IEC 60099-4
 Manufacturing Year
 U_r : 96 kV
 U_c : 77 kV
 Qrs: 2.2 C

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

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