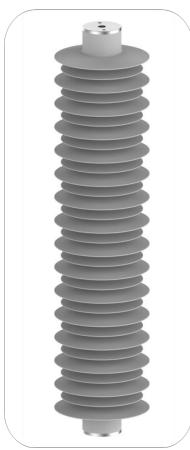
TE's BOWTHORPE EMP HIGH VOLTAGE SURGE ARRESTERS





PCA RANGE - PCA3E72



General Information

Metal oxide arrester (ZnO)

Polymeric Housing

Hydrophobic silicone housing for long-term outdoor use

Nominal discharge current: 10 kA

Designation class: SM

High current impulse 4/10 μs : 100 kA Single impulse withstand rating: 2.2 C

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

IEC 60099-4:2014

Surge Arrester Characteristics

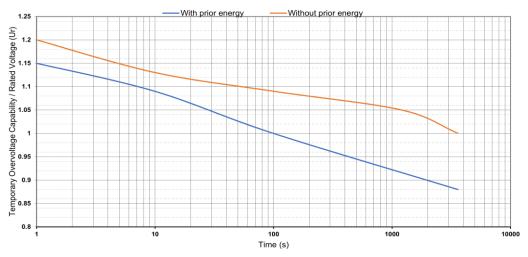
Maximum System Voltage:	Us:	100 kV
Rated Voltage	Ur:	72 kV
Continuous Operating Voltage	Uc:	57.6 kV
TOV Capability (with prior energy)		82.8 kV for 1s
		78.4 kV for 10s
Rated Short Circuit Current	lsc:	65 kA
Cantilever Load		
Safe Long-Term Load	SLL:	2.0 kNm
Safe Short-Term Load	SSL:	2.5 kNm
Dry Impulse Voltage - 1,2/50 μs		672 kV
Wet Power Frequency Voltage		358 kV
Flashover Distance		1113 mm
Creepage Lenght		4500 mm
Minimum distance between phase centers		840 mm
Minimum distance between phase to earth		480 mm
Height (core only - accessories not included)		1076 mm
Approx. Weight		27.5 kg

Maximum Pacidual Valtages

Maximum Residual Voltages											
Lightning				Steep lightning current impulse 1/20 µs		Switching					
current impulse			current impu			current impulse					
8/20 μs						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	
164 kV	173 kV	187 kV	207 kV	181 kV	195 kV	135 kV	138 kV	142 kV	147 kV	152 kV	

Power Frequency Voltage versus Time

PCA IEC



Marking

Isc:65 kA In:10 kA PCA3E72 IEC 60099-4:2014 **Manufacturing Year** Ur:72kV Uc:57.6kV **Designation class: SM Serial No** 7.8 kJ/kV-Ur

* The image on this datasheet is a reference, for proper dimensional information please refer to technical sales drawing. For data not shown on this datasheet or questions related to special applications, please contact TE for further assistance.

Learn more: TE.com/energy

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