

Damping and absorption capacitor technical index

Type: YZPST-6 μ F/3kVDC

Standard	IEC 61071-2017
Rated Voltage	3kVDC
Rated capacity	6 μ F
Capacity Tolerance within	$\pm 5\%$
Ambient temperature:	
Min.running temp. T_{min}	-40 $^{\circ}$ C
Max.running temp. T_{max}	+85 $^{\circ}$ C
Relative humidity	$\leq 95\%$
Altitude	$\leq 1000\text{m}$
Storage temperature	-25 \sim 60 $^{\circ}$ C

Maximum r.m.s. current I_{max}	18 A
Repetitive peak current i	650A
Surge peak current I_s	1950A
Periodic peak voltage U_{max}	3900V
Non-recurrent surge voltage U_s	5100V
Test Item:	
AC Testing Voltage V_{TT}	AC $1.5 \times U_N$ or DC $2.15 \times U_N$, 10s
Voltage between terminal and housing V_{TC}	$2 \times U_i + 1000V$, 10s ($U_i = U_N / \sqrt{2}$)
Insulation resistance R_{ins}	$\leq 1\mu F : \geq 3000M\Omega$ $> 1\mu F : \geq 3000s$
Discharge time $\tau (R_{ins} \times C)$	≤ 0.0005
Loss angle $\tan \delta$ (1kHz)	$75^\circ C \pm 5^\circ C$ at constant temperature, 4 hours
Sealing test	without leakage
Discharge test between terminals	1.1 U_N voltage, 10mins bear 5 times DC charging and discharging in polarity, Without breakdown and capacitance loss.

