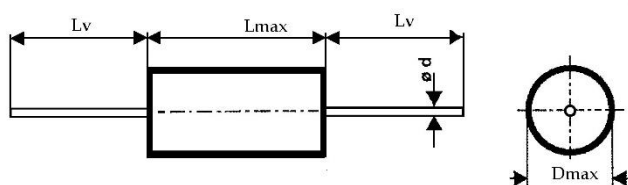
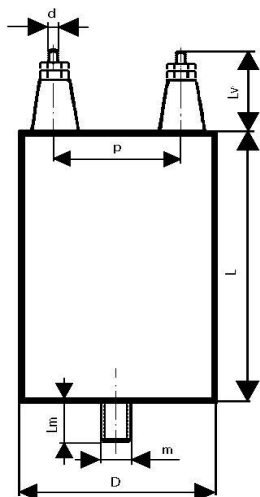


KPI 500-093 CAPACITORS FOR HIGH VOLTAGE APPLICATIONS

Construction A



Construction LV



Construction:

Metallic electrodes, polypropylene film dielectric, non-inductive, self-healing construction. Plastic cylindrical flame retardant case

Construction A: leads tinned copper wire $d=0,8\text{mm}$ $L_v=40\text{mm}$

Construction LV: case with bottom screw M8x15 for mounting, upper screw M6x10.

Applications:

DC and AC applications with high pulse loading

Technical data

Rated voltage U_R : 16 000 V DC

Rated voltage is the max. DC or peak voltage, for which the capacitor is designed.

If the capacitor works with the DC and also super-imposed AC voltage U_{AC} , the sum of DC and the amplitude of AC must not exceed the U_R

Max permissible AC voltage: 4000V 50/60Hz,

If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.

Rated capacitance: 20 ÷ 100nF, other capacity on request

Tolerance: $\pm 20\%$, $\pm 10\%$,

Dissipation factor $Tg\delta$: $< 0,0006$ at 1kHz and $+25^\circ\text{C}$

Operating temperature range: $-40 \div +70^\circ\text{C}$

The highest permissible capacitor temperature at the hottest point of the case must not exceed $+70^\circ\text{C}$.

Max. permitted dissipation power of the capacitor depend on the construction of the capacitor and the cooling conditions

Test voltage between terminals: 18 000VDC, 10sec. at $+25^\circ\text{C}$,

All capacitors are tested by the routine test by the manufacturer

Protection against Over-voltages:

The capacitors are self-healing and regenerate themselves after occasional breakdowns. The capacitor remains fully functional after the breakdown.

Permitted Over-voltages in working conditions:

$1,1 \times U_R$ max. 10% of the service period

If the Over-voltages exceed the permissible values above, the capacitor might have been destroyed.

Test voltage between terminals and case:

18 000VDC, 1min. at $+25^\circ\text{C}$

Max. repetitive rate of voltage rise dU/dt :

$< 500\text{V}/\mu\text{sec}$ at U_R and $+25^\circ\text{C}$

Max. peak current I_p : $< C_R \times dU/dt$

Related standards: IEC 60384-1

Marking for purchase ordering:

KPI500-093 100nF $\pm 10\%$ 16 000V DC construction A or LV

Warning! The manufacturer is not responsible for any damages, caused by the improper installation and application. Before using the capacitor in any application, please, read carefully this technical data-sheet.

Capacity C_R [nF]	Dimensions [mm]			
	D	L	Construction	P
20	40	125	A	-
50	50	150	LV	50
68	63	150	LV	50
82	75	150	LV	50
100	75	150	LV	50