KPI AC/DC Capacitors

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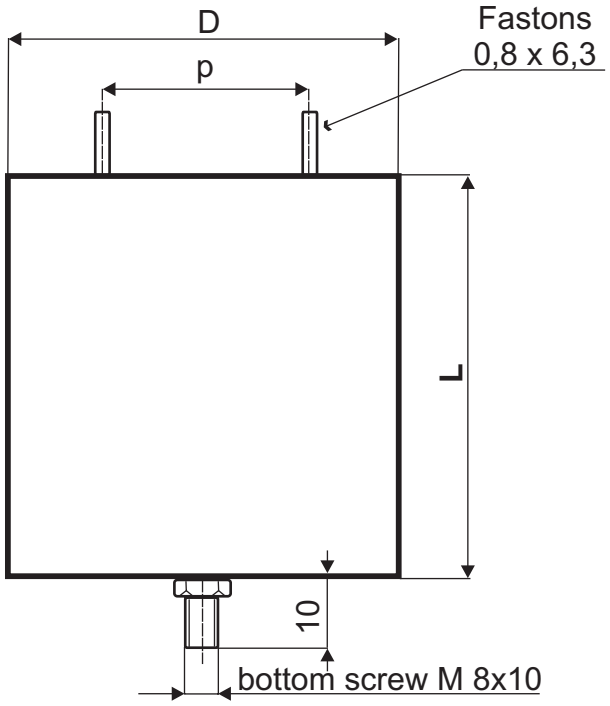
KPI 300 - 146



Capacit. C_R (µF)	Dimension [mm]			
	D	L	p	P_L [W]
2	55	92	40	5

Construction:

Metallized polypropylene film, Non-inductive, self-healing construction.Plastic cylindrical flame retardant case, with bottom screw M 8 x 10

Applications:
Filtering, smoothing, damping and other applications

Technical data

Rated voltage U_R: 1000V DC/ 600 V_{RMS} 50 Hz
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

If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.
$Max.U_{AC(f)} < \sqrt{P_L/2fC_R \times tg\delta}$
Rated capacitance: 2 µF, other value on request
Tolerance: 10%, 5%,
Dissipation factor Tg: < 0,001 at 1kHz and +25°C
Insulation resistance R_{IS}: >30000/C [MΩ]
Operating temperature range: -40 ÷ +70°C
The highest permissible capacitor temperature at the hottest point of the case must not exceed +70°C.
Max . permitted dissipation power of the capacitor P_L:
depend on the construction of the capacitor and the cooling conditions, 5 W.
Test voltage between terminals: 1,25 x U_R, 1min. at +25°C
All capacitors are tested by the routine test by the manufacturer
Protection against Overvoltages:
The capacitors are self-healing and regenerate themselves after occasional breakdowns**.** The capacitor remains fully functional after the breakdown.
Permitted Overvoltages in working conditions:
1,1 x U_R max. 30% of the service period
1,15x U_R max.30min./day
1,2 x U_R max. 5min./day
1,25 x U_R max. 1min./day
If the Overvoltages exceed the permissible values above, the capacitor might have been destroyed.
Test voltage between terminals and case:
3000VDC, 1min. at +25°C
Max. repetitive rate of voltage rise dU/dt:
≤ 500V/usec at U_R and +25°C
Max. peak current I_p: < C_R x dU/dt

Related standards: IEC 60384-1
Marking for purchase ordering: KPI 300-146

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