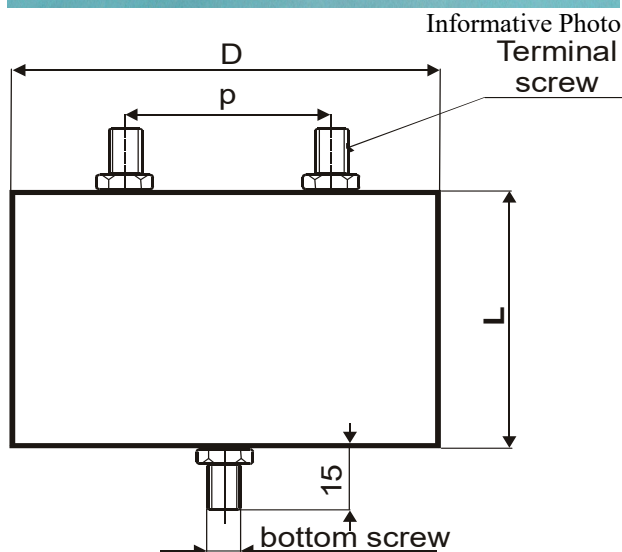




MKP 300-114 CAPACITORS FOR AC APPLICATIONS



Capacity C_R [µF]	Dimensions [mm]			Terminal screws
	D	L	p	
70	110	80	60	M8
80	110	80	60	M8
120	110	140	60	M10
150	110	140	60	M10

Other Capacity on request available

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.

Construction:

Metallized polypropylene film, Non-inductive, self-healing construction, Plastic cylindrical flame retardant case, with bottom screw M8x10, or M10x15 available, The terminals are screws M8 or M10

Applications:

DC and AC applications

Technical data

Rated voltage U_R : 1000V 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: 500V 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: 50 ÷ 150µF

Tolerance: ±10%, ±5%,

Dissipation factor $Tg\delta$: < 0,01 at 100Hz and +25°C

Insulation resistance R_{IS} : >10 000/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

Test voltage between terminals:

1,25 x U_R , 1min. at +25°C

All capacitors are tested by the routine test by the producer

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. 10% of the service period

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 :

< 10V/µsec at U_R and +25°C

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

Terminals: screws M8 or M10

Related standards: IEC 60384-1

Marking for purchase ordering:

MKPI300-114 150µF±10% 1000VDC