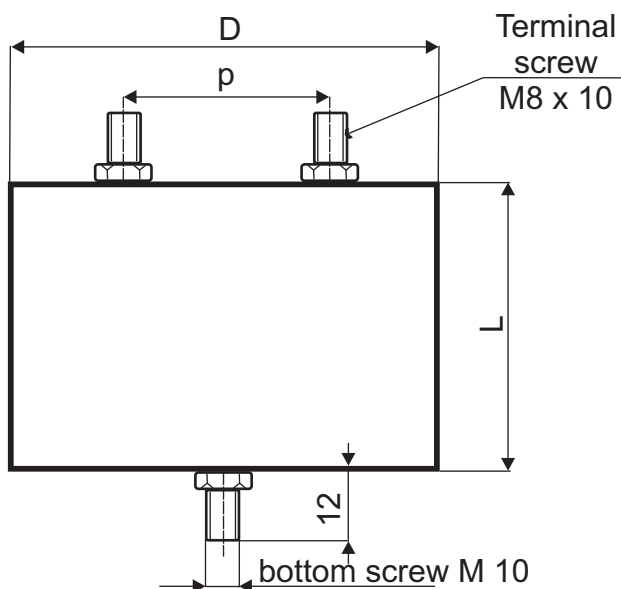


MKP AC/DC Capacitors

MKP 300-116



| Capacit. C_R (μF) | Dimension [mm] | | | |
|--|----------------|-----|----|-----------|
| | D | L | p | P_L [W] |
| 23 | 110 | 120 | 60 | 10 |

Construction:

Metallized polypropylene film, Non-inductive, self-healing construction. Plastic cylindrical flame retardant case, with bottom screw M 10 x 12

Applications:

Filtering, smoothing, damping and other applications

Technical data

Rated voltage U_R : 1000V DC/ 525 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.

$$\text{Max. } U_{AC(f)} = \sqrt{\frac{P_L}{2\pi f C_R \times \text{tg}\delta}}$$

Rated capacitance: 23 μF , other value on request

Tolerance: 10%, 5%

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

Insulation resistance R_{is} : >50 M Ω

Operating temperature range: -40 ÷ +85°C

The highest permissible capacitor temperature at the hottest point of the case must not exceed +85°C.

Max. permitted dissipation power of the capacitor P_L : depend on the construction of the capacitor and the cooling conditions, 10 W.

Test voltage between terminals: 1,6 × 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:

1,10 × U_R max. 30% of the service period

1,15 × U_R max. 30min./day

1,20 × U_R max. 5min./day

1,30 × 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 :

< 10V/ μsec at U_R and +25°C

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

Related standards: IEC 60384-1

Marking for purchase ordering: MKP 300-116

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.