MKP 300-161 CAPACITORS FOR DC & AC APPLICATIONS

Construction:
Metallized electrodes, polypropylene film dielectricum,
Non-inductive, self-healing construction,
Plastic cylindrical flame retardant case, with bottom screw M8x10, or M10x15 available

Applications:
Smoothing, filtering and other DC applications
Also AC applications with low pulse loading

Technical data
Rated voltage $U_R$: 650V 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: 400V 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.

$$ U_{MAX} = \sqrt{\frac{P_L}{2\pi \times f \times C_R \times \tan \delta}} $$

Rated capacitance: 100 – 500µF
Tolerance: ±20%, ±10%
Dissipation factor $Tg\delta$: < 0,01 at 1kHz and +25°C
Insulation resistance $R_{IS}$: 1000/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, see table.

Test voltage between terminals: 700VDC, 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 $dU/dt$: < 20V/µsec at $U_R$ and +25°C
Max. peak current $I_p$ < $C_R \times dU/dt$
Terminals: screws M8
Related standards: IEC 60384-1

Marking for purchase ordering:
MKP 300-161 200µF±10% 650V DC

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.