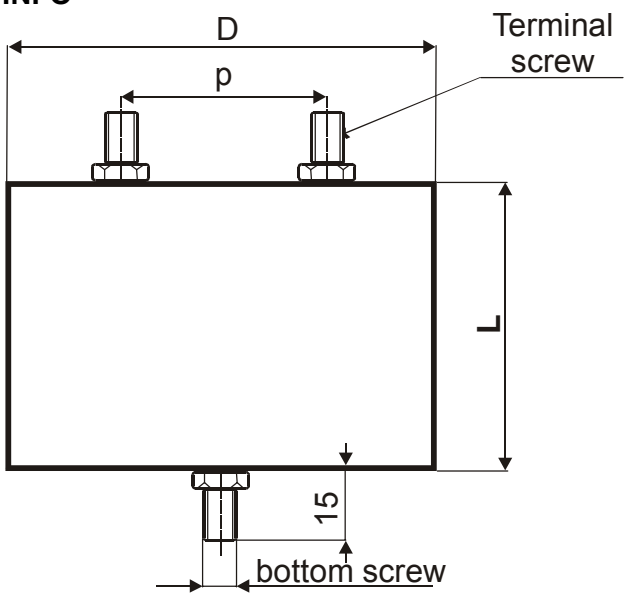
Elektronické součástky CZ, a.s.

MKP 300-160 CAPACITORS FOR AC APPLICATIONS

INFO



Capacit. C_R [µF]	Dimensions [mm]				
	D	L	p	Terminal screw	P_L [W]
10	75	120	30	M6	8,0
15	75	120	30	M6	8,5
20	110	140	60	M8	15
25	110	140	60	M8	15
30	110	140	60	M8	15
50	125	140	70	M8	20
60	125	140	70	M8	20

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

Applications:
High current and other AC applications

Technical data
Rated voltage U_R: 2000V 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: 600V 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.

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

Rated capacitance: 10 – 60µF
Tolerance: ±10%, ±5%,
Dissipation factor Tgδ: < 0,001 at 1kHz and +25°C
Insulation resistance R_{IS}: >3000/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: 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:
< 100V/µsec at U_R and +25°C
Max. peak current I_p: < C_R x dU/dt

Terminals: screws M6 or M8

Related standards: IEC 60384-1

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.