

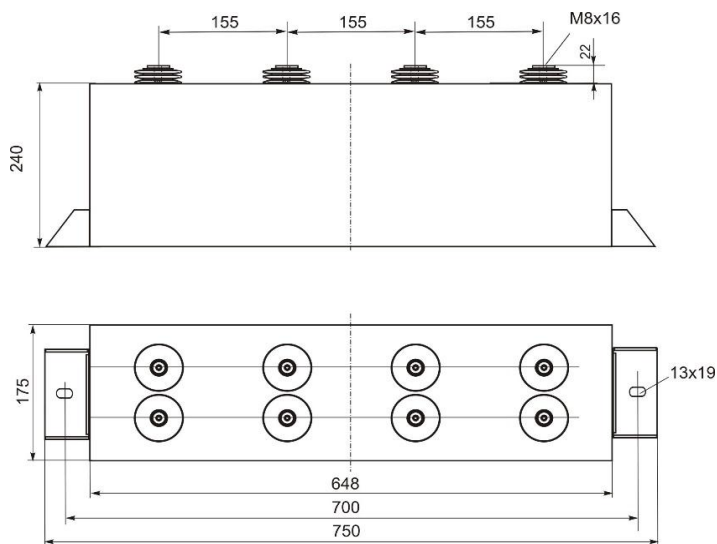
Order code: PPM 100-11000.0 r (K)
Application: DC link capacitor for general use in power electronics also for nonsinusoidal voltages and currents with low self inductance

Standard: IEC 61071:2007 / IEC 61881-1: 2010

Characteristics

Rated capacitance	C_N	11000 µF ±10%
Rated d.c. Voltage	U_{NDC}	1000 V
Ripple voltage (peak - peak)	U_r	300 V
Non-recurrent surge voltage	u_s	1500 V
Rated energy	E_N	5500 Ws
Maximum permanent rms current	I_{max}	380 A
Maximum peak current	î	5 kA
Maximum surge current	î_s	200 kA
Series resistance	R_s	0,13 mΩ
Dielectric loss factor	tanδ_o	2 x10 ⁻⁴
Self discharge time const.	C x R_{is}	25000 s
Self inductance	L_e	20 nH
Resonance frequency	f_{res}	11 kHz

outline drawing



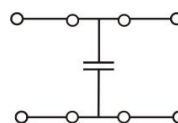
Maximum permissible voltage

(Maximum within one day)	1100 V
30% of on-load duration	1150 V
30min	1200 V
5min	1300 V
1min	1500 V
30ms max. 1000 x life-time	1500 V

Routine test voltages

Voltage test between terminals	U_{BB}	1500 V DC/10s
A.C. voltage test terminal/case	U_{BG}	3600 V AC/10s

circuitry



Dimensions

Height of the case	H	240 mm
Length of the case	L	648 mm
Width of the case	W	175 mm
Clearance in air	L	32 mm
Creepage distance	K	60 mm
Terminal		iM8x12 mm

Thermal conditions

Lowest operating temperature	Θ_{min}	-40 °C
Maximum operating temperature	Θ_{max}	85 °C
Endurance type test temperature		70 °C
Thermal resistance	R_{th}	0,63 K/W ¹⁾
Storage temperature	Θ_{storage}	-40...+85 °C
Humidity class		C

Statistical lifetime

	>	200000 h
Failure rate	<	100 FIT
at Θ _{hotspot}	≤	70 °C

Mechanical characteristics

Dielectric	DC - metallized polypropylene capacitor, self-healing
Construction	Aluminum case, welded, brass terminals, plastic insulators (V0 UL94)
Surface	untreated
Protection	without internal fuse
Impregnant	dry type, resin moulded (Non PCB)

Fire load 1100MJ

Approx weight 36kg

permitted power losses during continuous operation

