

DC-Link Capacitor

MKPD-MC 830 μ F 1100V.dc

Specifications	
Reference standards	IEC 61071
Rated capacitance (C_N)	830 μ F
Capacitance tolerance	$\pm 5\%$
Rated voltage(U_N)	1100V.dc
Surge voltage(U_s)	1650V $t < 100ms$
Over voltage	1.1 U_N 8h/day
	1.15 U_N 30min/day
	1.2 U_N 5min/day
	1.3 U_N 1min/day
Max. current(I_{max})	60A
Max. peak current(I_{peak})	4.8kA
Dielectric dissipation factor($\tan\delta_o$)	2×10^{-4}
Series resistance(R_s)	1.7m Ω (1kHz)
Self-inductance(L_s)	60nH
Expected lifetime	100000h
Failure rate	50 FIT

Test data	
Test voltage between terminals(U_{T-T})	1.5 $U_N/10s$
Test voltage between terminals to case(U_{T-C})	4000V.ac/10s
Dissipation factor($\tan\delta$)	$\leq 1 \times 10^{-3}$ (100Hz)
Insulation resistance($IR \times C_N$)	$\geq 5000s$ (20°C, 100V, 1min)

Environmental data	
Operating temperature	-40°C ~ +85°C
Storage temperature	-40°C ~ +85°C
Climatic category	40/85/21
Cooling	Natural cooling
Max. altitude	2000m

Construction data	
Dielectric	Polypropylene film
Case	Aluminium can
Internal stuffing	Resin
IP grade	IP00
Max. torque(mounting bolt)	M12:10Nm
Max. torque(terminals)	M6:6Nm
Mounting position	Vertical
Electric distance	17mm
Discharge resistance	-

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Outline drawing	
Diameter(ΦD)	86mm
Height(H)	253mm
Center distance(P)	32mm
Mounting bolt(M)	M12×16
Terminals(T)	M6×10

