Le Lanché Capacitors	**Film Capacitors**	**CXPLP 60-220.0 t5**

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Technical data

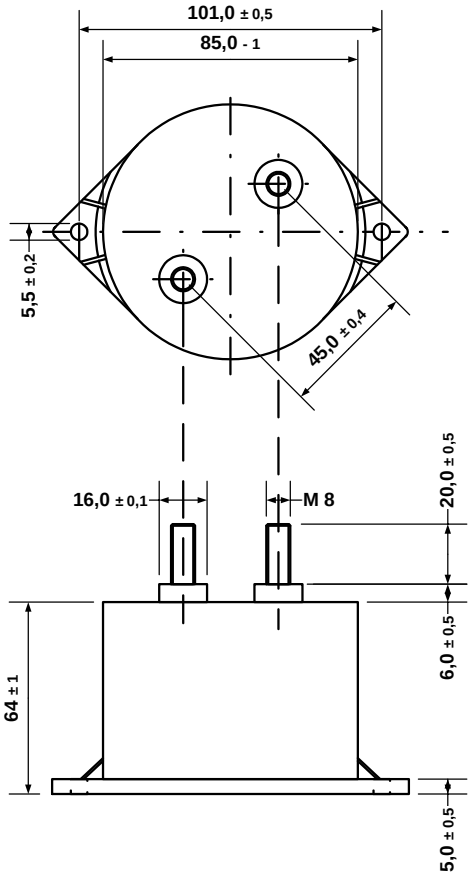
Nominal capacitance	C_N	220	µF ± 10%
Nominal voltage dc	U_{NDC}	600	V
Nominal voltage ac	U_{NAC}	100	V
Surge voltage	U_S	900	V
Energy	W_N	44,8	Ws
Max. current /1 kHz	I_{Max}	100	A
@ Busbar Temp < 50 ℃			
Max. periodic Peak current	$\hat{I}_{Periodic}$	2382	A
Max. Pulse rise time	$\Delta U/\Delta t$	17,0	V/µs
Series resistance @ 10 kHz	R_{ESR}	1,0	mΩ
Dissipation factor @1 kHz	tanδ	15	$x10^{-4}$
Self inductance	L_E	< 10,5	nH

Max. power loss
@ $\vartheta_{hotspot}$ 85℃ / nat. convection
@ 10kHz

P_{max}	@ ϑ_{case}	I_{max}
14,5 W	40 ℃	120,5 A
11,3 W	50 ℃	106,3 A
8,1 W	60 ℃	89,8 A
4,8 W	70 ℃	69,6 A

U_N-Derating

U_{Nmax}	@ ϑ_{case}
U_N x 1	≤ 70 ℃
U_N x 0,9	≤ 75 ℃
U_N x 0,8	≤ 80 ℃
U_N x 0,7	≤ 85 ℃



Min. Operating temperature	ϑ_{min}	-40	℃
Max. Operating temperature (I_R =0)	ϑ_{max}	+105	℃
Storage temperature	ϑ_{Lager}	-40...+105	℃
Thermal resistance (case hotspot)	R_{th}	3	℃/W
Climatic category DIN IEC 68/1		40/105/21	

Test Data

Test voltage between terminations	U_{TT}	900	V dc / 10s

Life expectancy

@ hot spot 85℃	225 000	h
@ nominal voltage	400	Vdc
Failure rate @ ambient 45℃	100	Fit
@ nominal voltage	400	Vdc

General technical data

Coating	PA 66 plastic case with polyurethane resin sealing Flame retardant UL 94V-0 compliant
Dielectric	polypropylene
Terminals	nickel plated brass
Creepage distance	29 mm
Weight	~ 500g

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