Data Sheet
Film Capacitor
Type: EC300µ1250d116140JM8

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Technical data

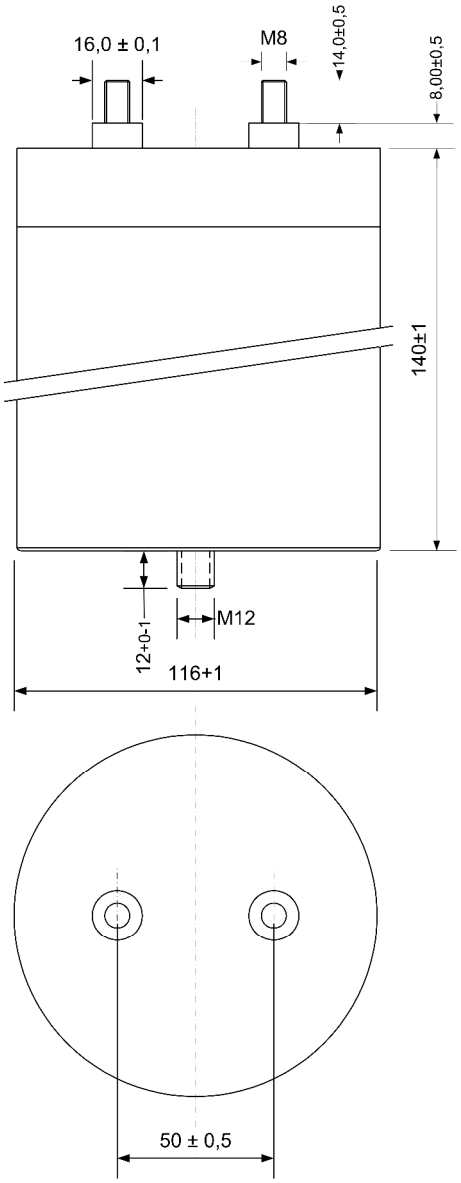
Nominal capacitance	C_N	300	µF ± 5%
Nominal voltage dc	U_{NDC}	1250	V
Surge voltage	U_S	1875	V
Energy	W_N	234	Ws
Max. AC current @ T_{case}=30°C	I_{RMS}	74	A
Max. Peak periodic current	$\hat{I}_{Periodic}$	2,6	kA
Max. Pulse rise time	$\Delta U/\Delta t$	8,8	V/µs
Series resistance @ 10 kHz	R_{ESR}	<6	mΩ
Dissipation factor @ 1 kHz	tanδ	<120	$x10^{-4}$

Max. Power loss
@ $\vartheta_{hotspot}$ 85°C / nat. convection
@ 10kHz

I_{max}	@ ϑ_{case}	P_{max}
67 A	40 °C	22 W
59 A	50 °C	17 W
50 A	60 °C	12 W
39 A	70 °C	7,5 W

U_N-Derating

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



Min. Operating temperature	ϑ_{min}	-40	°C
Max. Operating temperature (I_R =0)	ϑ_{max}	+85	°C
Storage temperature	ϑ_{Lager}	-40...+85	°C
Thermal resistance (case hotspot)	R_{th}	1,5	K/W
Climatic category DIN IEC 68/1		40/085/21	
Test voltage between terminals	U_{TT}	1875	V dc / 2s
Test voltage between terminal/case	U_{TC}	3500	V ac / 10s
Life expectancy @ hot spot 60°C		100000	h

General data

Coating	aluminium can with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	brass nickel plated, max. torque 6 Nm RoHS compliant
Weight	approx. 2 kg