

date: 23/05/2011 07:17:00
issued by: HT
version: 1.1
10.06.2011 13:35

Technical data

Nominal capacitance	C_N	300 μ F \pm 5%
Nominal voltage dc	U_{NDC}	1250 V
Surge voltage	U_S	1875 V
Energy	W_N	234 Ws
Max. AC current @ $T_{case}=30^\circ$ 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/ μ s
Series resistance @ 10 kHz	R_{ESR}	<6 m Ω
Dissipation factor @ 1 kHz	$\tan\delta$	<120 $\times 10^{-4}$

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}
$U_N \times 1$	$\leq 70^\circ$ C
$U_N \times 0,9$	$\leq 75^\circ$ C
$U_N \times 0,8$	$\leq 80^\circ$ C
$U_N \times 0,7$	$\leq 85^\circ$ 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

