

Technical data

Nominal capacitance	C_N	450 $\mu\text{F} \pm 5\%$
Nominal voltage dc	U_{NDC}	900 V
Surge voltage	U_S	1350 V
Energy	W_N	182 Ws
Max. AC current @ $T_{\text{case}}=30^\circ\text{C}$	I_{RMS}	55 A
Max. Peak periodic current	$\hat{I}_{\text{Periodic}}$	7200 A
Max. Pulse rise time	$\Delta U/\Delta t$	16 V/ μs
Series resistance @ 10 kHz	R_{ESR}	<4 m Ω
Dissipation factor @ 1 kHz	$\tan\delta$	20 $\times 10^{-3}$
Self inductance	L_E	<60 nH

Max. Power loss

@ $\vartheta_{\text{hotspot}} 85^\circ\text{C}$ / nat. convection

@ 10kHz

I_{max}	@ ϑ_{case}	P_{max}
46 A	40 °C	14 W
38 A	50 °C	10 W
32 A	60 °C	7 W
27 A	70 °C	5 W

U_N -Derating

U_{Nmax}	@ ϑ_{case}
$U_N \times 1$	$\leq 70^\circ\text{C}$
$U_N \times 0,9$	$\leq 75^\circ\text{C}$
$U_N \times 0,8$	$\leq 80^\circ\text{C}$
$U_N \times 0,7$	$\leq 85^\circ\text{C}$

Min. Operating temperature	ϑ_{min}	-40 °C
Max. Operating temperature ($I_R = 0$)	ϑ_{max}	+70 °C
Storage temperature	ϑ_{Lager}	-40...+85 °C
Thermal resistance (case hotspot)	R_{th}	2 K/W
Climatic category DIN IEC 68/1		40/070/21

Test Data

Test voltage between terminals	U_{TT}	1350 V dc / 2s
Test voltage between terminal/case	U_{TC}	3600 V ac / 10s

Life expectancy @ hot spot 60°C 100000 h

General technical data

Coating	aluminium case with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Base Stud	M12x16, max. torque 7 Nm
Terminals	brass nickel plated M8, max. torque 6 Nm
Weight	approx. 1 kg

