

date: 28.09.2009 10:05
issued by: db
version: 1.5
09.10.2009 14:06

Technical data

Nominal capacitance	C_N	220 $\mu\text{F} \pm 10\%$
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 @ Busbar Temp < 50 °C	I_{Max}	100 A
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 m Ω
Dissipation factor @1 kHz	$\tan\delta$	15 $\times 10^{-4}$
Self inductance	L_E	< 10,5 nH

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

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

U_N -Derating

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

Min. Operating temperature	ϑ_{min}	-40 °C
Max. Operating temperature ($I_R = 0$)	ϑ_{max}	+105 °C
Storage temperature	ϑ_{Lager}	-40...+105 °C
Thermal resistance (case hotspot)	R_{th}	3 °C/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°C	225 000 h
@ nominal voltage	400 Vdc

Failure rate @ ambient 45°C	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

