

- DRAFT -

Order code: E59.B19-106010
Application: DC capacitor acc. to specification ...
 Customer: Nari Relays Electric Co. LTD
Standard: IEC 61071:2007

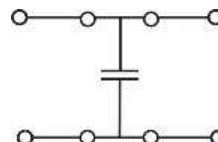
Characteristics

Rated capacitance	C_N	10000 μ F 0..+5%
Rated d.c. Voltage	U_{NDC}	2200 V
Ripple voltage (peak - peak)	U_r	600 V
Non-recurrent surge voltage	u_s	3300 V
Rated energy	E_N	24200 Ws
Max. current at 50°C ambient temp.	I_{max}	720 A
Maximum peak current	$\hat{I}$	25 kA
Maximum surge current	$\hat{I}_s$	500 kA
Series resistance	R_s	0.1 m Ω
Dielectric loss factor	$\tan\delta_o$	2 $\times 10^{-4}$
Insulation resistance	R_{is}	> 10 M Ω
Self inductance	L_e	~ 30 nH ¹⁾
Resonance frequency	f_{res}	~ 8 kHz ¹⁾

outline drawing

see drawing G59.B19-A00004a on page 2

circuitry



Maximum permissible voltage

(Maximum within one day)

30% of on-load duration	2420 V
30min	2530 V
5min	2640 V
1min	2860 V
30ms max. 1000 x life-time	3300 V

Routine test voltages

Voltage test between terminals	U_{BB}	3300 V DC/60s
A.C. voltage test terminal/case	U_{BG}	4200 V AC/60s
PD measurement (<10pC after 60s):	U_{PDoff}	2400 V AC ¹⁾

Dimensions

Height of the case	H	745 mm
Length of the case	L	500 mm
Width of the case	W	235 mm
Clearance in air	L	32 mm
Creepage distance	K	60 mm
Terminal		M12x30 mm

Thermal conditions

Lowest operating temperature	Θ_{min}	-40 °C
Maximum operating temperature	Θ_{max}	85 °C
Endurance type test temperature		70 °C
Thermal resistance	R_{th}	0,2 K/W ¹⁾
Storage temperature	$\Theta_{storage}$	-40..+85 °C
Humidity class		C

Statistical lifetime

Failure rate		> 265000 h
at $\Theta_{hotspot}$		< 100 FIT
		≤ 70 °C

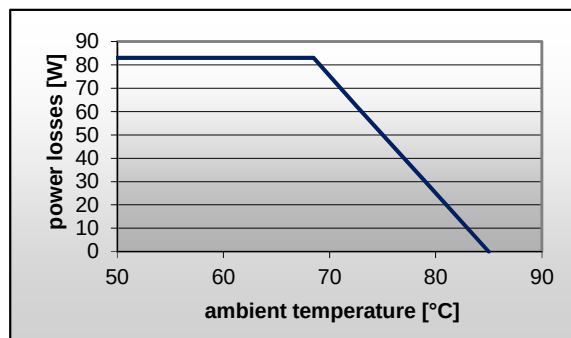
Mechanical characteristics

Dielectric	DC - metallized polypropylene capacitor, self-healing
Construction	Stainless steel case, welded, brass terminals, plastic insulators (V0 UL94)
Surface	brushed and treated weld
Protection	without internal fuse
Impregnant	dry type, resin moulded (Non PCB)

Fire load 3400MJ

Approx weight 106kg

permitted power losses during continuous operation ¹⁾



The export of this item may be subject to German export control regulations!

1) Calculated value. Exact values can be verified by dedicated type test.

