

DC link capacitors

APPLICATIONS

- Hybrid vehicles
- Wind plants
- Solar power plants
- Electric energy generation from sea waves
- Medical equipment
- Industrial equipment
- Car electronics
- Railway and turbines (generator)
- Frequency transducer
- Elevators

CHARACTERISTICS

- Rated capacitance 100-2000 μF
 $\pm 10\%$
- Capacitance tolerance $\pm 10\%$
- Rated DC Voltage (U_n) max 1800 V DC
- Self-inductance max. 70 nH
- Typical tan. δ (50 Hz) $< 5.0 \text{E}-4$
- Series resistance $< 3 \text{ m}\Omega / 1 \text{ kHz}$
- Filling Resin Dry, UL94, V0
- Dielectric Self healing MPP aluminium case without overpressure device
- Terminals M6, M8 internal threads
M8 screw types bolts

MAXIMUM RATINGS

Overvoltage 1.1 x U_n (8h/day)
Max. (dV/dt) 25 V/us

CLIMATIC CATEGORY

Operating temp.: -40°C to +70°C at U_n
-40°C to +85°C at 0.7 U_n
-40°C to +100°C at 0.5 U_n
Max. hot spot temp. 85°C
Clim.cat. IEC 68/1 40/70/21
Expected life: 100.000 h at U_n , 70°C



DC link capacitors

GENERAL CHARACTERISTIC

Un (Vdc)	Cn (μ F)	D x H (mm)	P (mm)
700	520	85x120	32
700	650	85x142	32
700	1000	116x120	50
700	1300	116x145	50
900	330	85x120	32
900	500	85x142	32
900	650	116x120	50
900	820	116x145	50
1100	230	85x120	32
1100	300	85x142	32
1100	450	116x120	50
1100	570	116x145	50
1300	170	85x120	32
1300	220	85x142	32
1300	330	116x120	50
1300	420	116x145	50
1800	80	85x120	32
1800	105	85x142	32
1800	160	116x120	50
1800	200	116x145	50

SPECIFICATIONS

Capacitance range	100 - 2000 μ F
Capacitance tolerance	\pm 10%, on request \pm 5%
Voltage range	max 1800 Vdc
Temperature Coefficient	-2,3% from -20° to + 70°C
Operating temperature	-40°C to + 70°C at Un -40°C to + 85°C at 0.7 Un -40°C to + 100°C at 0.5 Un
Inductance	<70 nH
Test voltage	Terminal to terminal = 1.5 Un DC, 10s Terminal to case 3.6kV AC, 2s
Casing material	Aluminium
Filling	Epoxy resin dry, UL94, V0
Torque of terminals	M6: 5 Nm, M8: 6 Nm
Max. Altitude	2000 m
Lifetime expectancy	100 000 hours at Un, 70°C
Reference standard	IEC 1071, EN 61071

FEATURES

- Used in DC - link circuits, can replace electrolytic capacitor
- Low ESR, high ripple current handling capabilities
- Low ESL
- Self-healing property
- Long lifetime
- Aluminium case, filled with resin

APPLICATIONS

- Used in inverters of wind power and solar power
- Transportation: HEV or EV
- Welders, elevators, motor driver system

DIMENSIONS

