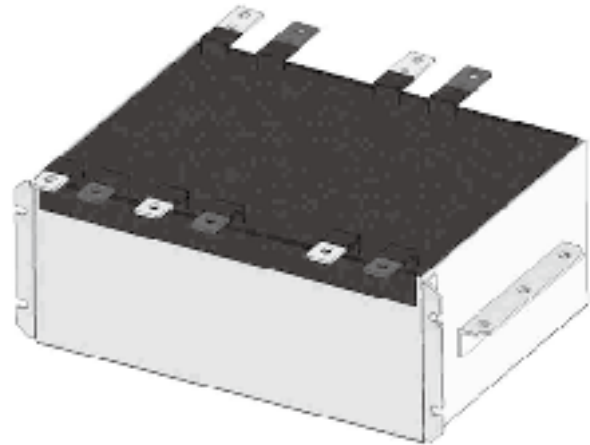
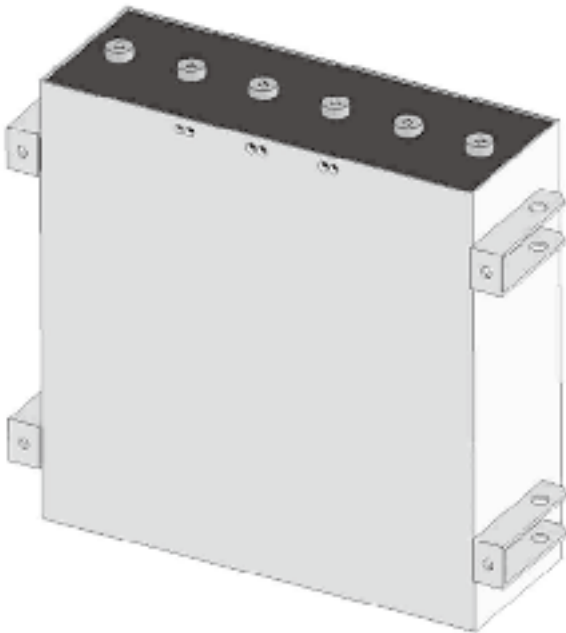


干式直流滤波电容器 (定制品) DC-Link Capacitor (Customized products)

■ 外形图 Outline Drawing



■ 特点

- 应用于直流滤波电路中，可替代电解电容
- 等效串联电阻小，能承受大的纹波电流
- 自感小
- 有自愈性
- 寿命长
- 树脂灌封

■ 应用场合

- 风能发电、太阳能发电用变频器上
- 交通工具
- 焊接设备，电梯，电机驱动

■ Features

- Used in DC-Link circuits, can replace electrolytic capacitor
- Low ESR, high ripple current handling capabilities
- Low L_s
- Self-healing property
- Long lifetime
- Filled with resin

■ Applications

- Used in inverters of wind power and solar power
- Transportation
- Welders, Elevators, Motor Driver systems



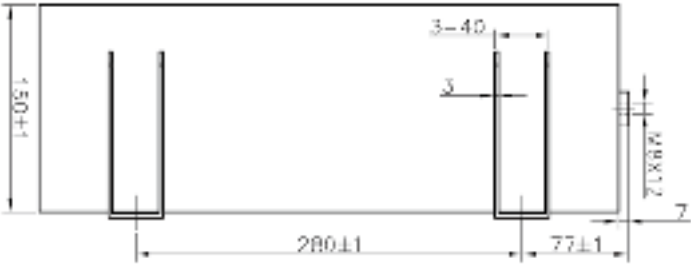
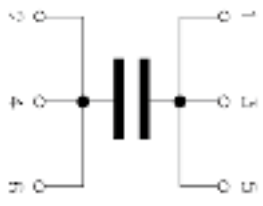
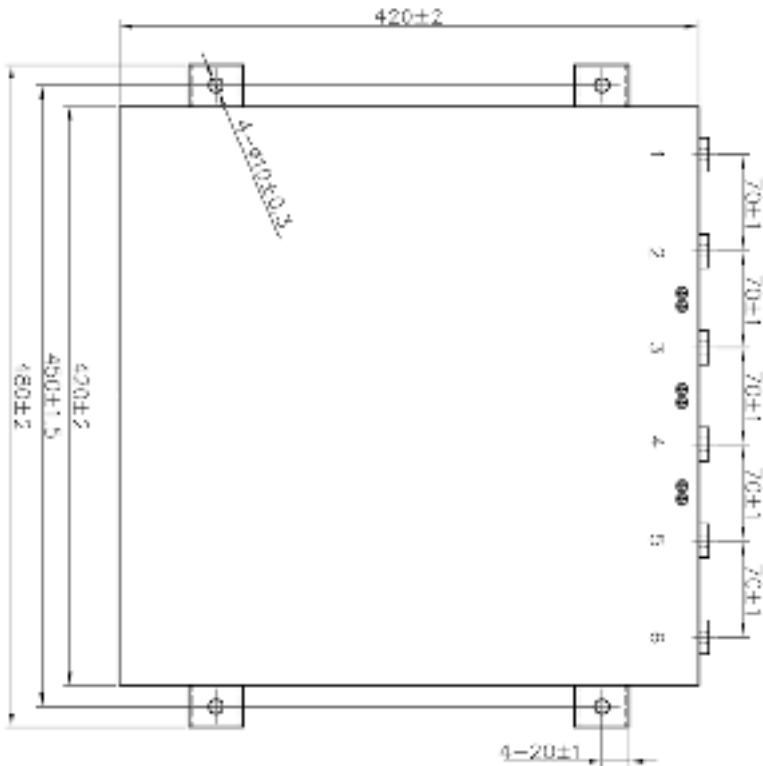
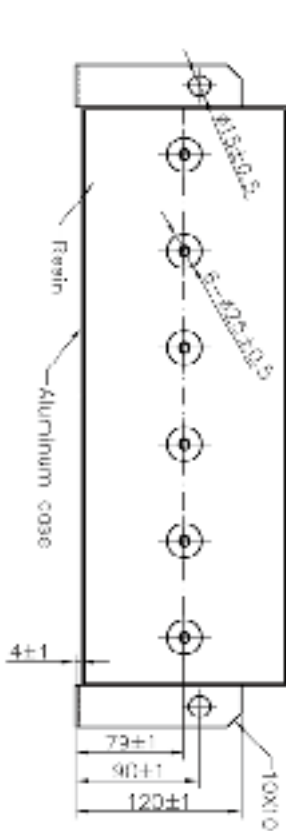
C3N

■ 产品代码 Part number

C3N8U189K0*****

■ 技术参数 Technical datas

引用标准 Reference standards	IEC 61071
额定电压 Rated voltage (U _N)	680Vdc
额定电容量 Rated capacitance (C _N)	18 000μF
电容量偏差 Capacitance tolerance	± 10%(K)
介质损耗因素 Dielectric dissipation factor(tg δ _d)	0.0002
电容器的损耗因素 Loss factor of the capacitor(tg δ)	≤ 0.0040@100Hz
运行温度范围 (θ _{case}) Operating temperature range (θ _{case})	-40℃ ~ 85℃
热点温度 Hot-spot temperature (θ _{hs})	≤ 85℃ (θ _{hs} = θ _{amb} +I ² _{rms} × (R _s +tg δ _d)/(2 × π × fripple × C _N) × R _{th})
贮存温度范围 Storage temperature range	-40℃ ~ 85℃
气候类别 Climatic category	40/85/56
主体尺寸 Body dimension	L × W × H: 420mm × 150mm × 420mm
近似重量 Approximate weight	38kg
外壳类型 Case	Aluminum
电极端子 Terminals	3 couples of thread hole M8 × 12, tinned brass
最大电极扭矩 Max. torque of terminals	6Nm
电气间隙 Clearance	≥ 20mm
爬电距离 Creepage distance	≥ 25mm
耐电压 (两极之间) Test voltage between terminals	1.5U _N (10s, 20℃ ± 5℃)
耐电压 (极壳之间) Test voltage between terminals and case	3 500Vac (10s, 50/60Hz, 20℃ ± 5℃)
绝缘电压 Insulation voltage (U _i)	U _N /√2 Vac, 50/60Hz
非周期冲击电压 Non-recurrent surge voltage (U _s)	1 050Vdc
最大电流 Maximum current (I _{max})	480A@ θ _{amb} =50℃
最大峰值电流 Maximum current (Î)	15 000A
最大冲击电流 maximum surge current (Î _s)	60 000A
串联电阻 Series resistance (R _s)	0.3mΩ @ 1kHz, 20℃ (approximate TCR: 0.004/℃)
热阻 Thermal resistance (R _{th})	0.4K/W
自感 Self-inductance (L _s)	≤ 50nH@1MHz
绝缘电阻 Insulation resistance (IR × C _N)	≥ 10 000s (20℃, 100Vdc, 1min)
最高使用海拔 Max. altitude	2 000m
预期寿命 Expected lifetime	100 000hrs @ U _N , θ _{hs} =70℃
失效率 Failure rate	100FIT





C3N

■ 产品代码 Part number

C3N3A608J0*****

■ 技术参数 Technical datas

引用标准 Reference standards	IEC 61071
额定电压 Rated voltage (U_N)	1 000Vdc
额定电容量 Rated capacitance (C_N)	6 000 μ F
电容量偏差 Capacitance tolerance	$\pm 5\%$ (J)
介质损耗因素 Dielectric dissipation factor($\text{tg } \delta_d$)	0.0002
电容器的损耗因素 Loss factor of the capacitor($\text{tg } \delta$)	$\leq 0.0020@100\text{Hz}$
运行温度范围 (θ_{case}) Operating temperature range (θ_{case})	$-40^\circ\text{C} \sim 85^\circ\text{C}$
热点温度 Hot-spot temperature (θ_{hs})	$\leq 85^\circ\text{C}$ ($\theta_{\text{hs}} = \theta_{\text{amb}} + I_{\text{rms}}^2 \times (R_s + \text{tg } \delta_d / (2 \times \pi \times f_{\text{ripple}} \times C_N)) \times R_{\text{th}}$)
贮存温度范围 Storage temperature range	$-40^\circ\text{C} \sim 85^\circ\text{C}$
气候类别 Climatic category	40/85/56
主体尺寸 Body dimension	L \times W \times H: 380mm \times 160mm \times 282mm
近似重量 Approximate weight	24kg
外壳类型 Case	Aluminum
电极端子 Terminals	5 couples of lugs, tinned copper
电气间隙 Clearance	$\geq 15\text{mm}$
爬电距离 Creepage distance	$\geq 50\text{mm}$
耐电压 (两极之间) Test voltage between terminals	$1.5U_N$ (10s, $20^\circ\text{C} \pm 5^\circ\text{C}$)
耐电压 (极壳之间) Test voltage between terminals and case	$4\ 000\text{Vac}$ (10s, 50/60Hz, $20^\circ\text{C} \pm 5^\circ\text{C}$)
绝缘电压 Insulation voltage (U_i)	$U_N / \sqrt{2}$ Vac, 50/60Hz
非周期冲击电压 Non-recurrent surge voltage (U_s)	$1\ 500\text{Vdc}$
最大电流 Maximum current (I_{max})	350A @ $\theta_{\text{amb}} = 50^\circ\text{C}$
最大峰值电流 Maximum current (\hat{i})	$6\ 000\text{A}$
最大冲击电流 maximum surge current (\hat{i}_s)	$24\ 000\text{A}$
串联电阻 Series resistance (R_s)	$0.3\text{m}\Omega$ @ 1kHz, 20°C (approximate TCR: $0.004/^\circ\text{C}$)
热阻 Thermal resistance (R_{th})	0.7K/W
自感 Self-inductance (L_s)	$\leq 30\text{nH}$ @ 1MHz
绝缘电阻 Insulation resistance ($IR \times C_N$)	$\geq 10\ 000\text{s}$ (20°C , 100Vdc, 1min)
最高使用海拔 Max. altitude	$2\ 000\text{m}$
预期寿命 Expected lifetime	$100\ 000\text{hrs}$ @ U_N , $\theta_{\text{hs}} = 70^\circ\text{C}$
失效率 Failure rate	100FIT

