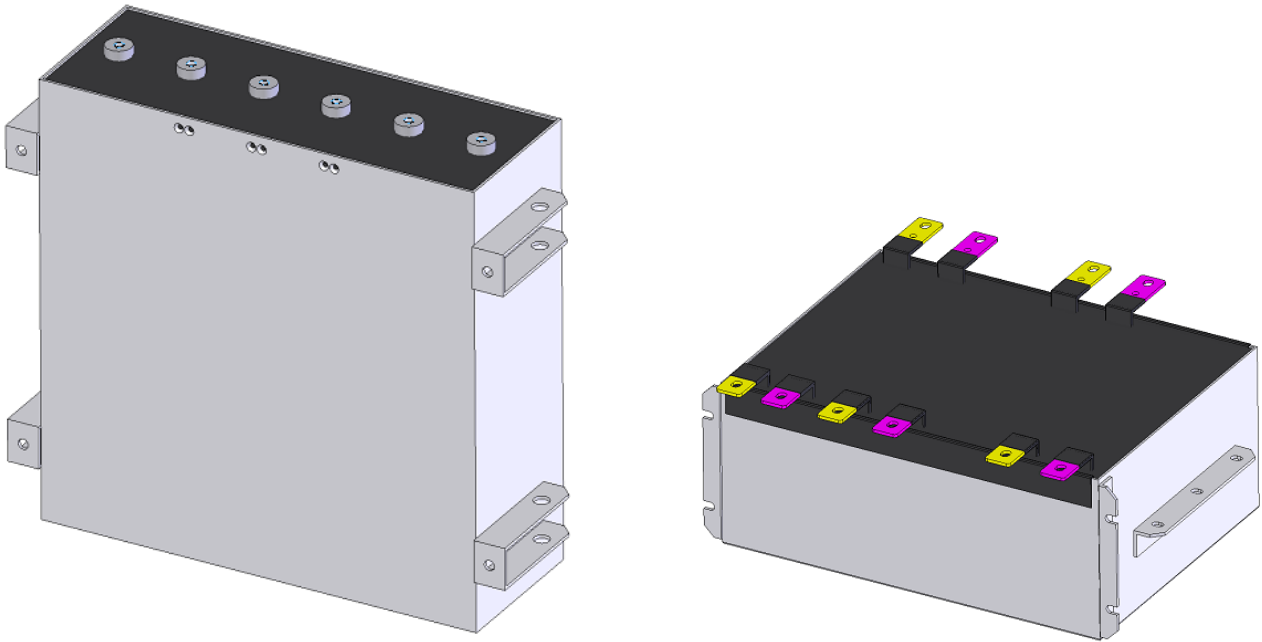


C3N

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

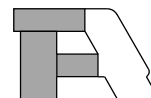
- 风能发电、太阳能发电用变频器上
- 交通工具
- 焊接设备，电梯，电机驱动

■ 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

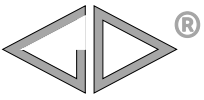


■ 产品代码 Part number

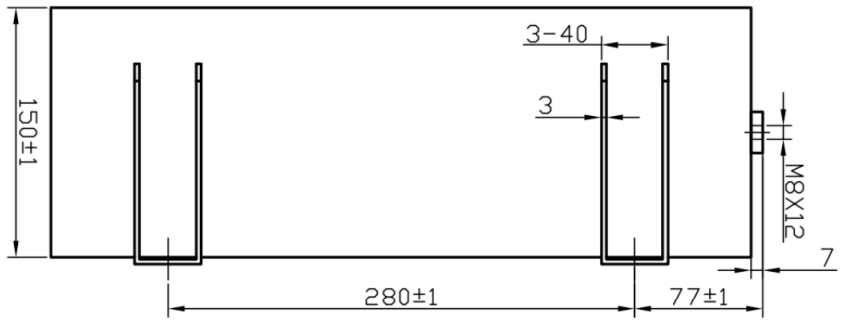
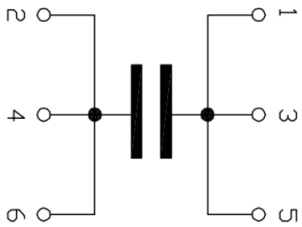
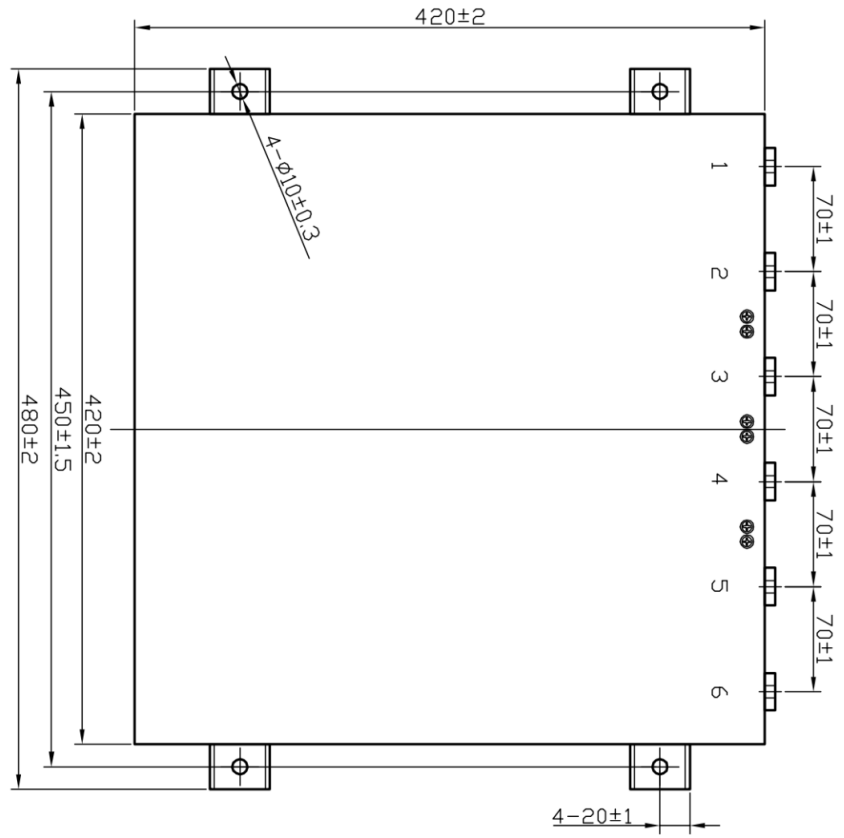
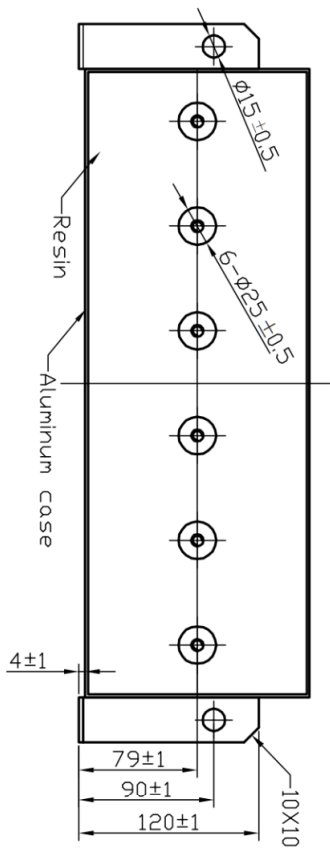
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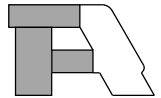
■ 技术参数 Technical Datas

引用标准 Reference standards	GB/T 17702(IEC 61071)
额定电压 Rated voltage (U_N)	680Vdc
额定电容量 Rated capacitance (C_N)	18 000 μ F
电容量偏差 Capacitance tolerance	$\pm 10\%$ (K)
介质损耗角正切 Dielectric dissipation factor ($\tan\delta_d$)	2×10^{-4}
电容器的损耗角正切 Loss factor of the capacitor($\tan\delta$)	$\leq 40 \times 10^{-4}$ @ 100Hz
运行温度范围 (θ_{case}) Operating temperature range (θ_{case})	-40°C~85°C
热点温度 Hot-spot temperature (θ_{hs})	$\leq 85^\circ\text{C}$
贮存温度范围 Storage temperature range	-40°C~85°C
气候类别 Climatic category	40/85/56
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	6N·m
电气间隙 Clearance	$\geq 20\text{mm}$
爬电距离 Creepage distance	$\geq 25\text{mm}$
耐电压(两极之间) Test voltage between terminals	$1.5U_N$ (10s, 20°C \pm 5°C)
耐电压(极壳之间) Test voltage between terminals and case	3 500Vac (10s, 50Hz/60Hz, 20°C \pm 5°C)
绝缘电压 Insulation voltage (U_i)	$U_N/\sqrt{2}$ Vac, 50Hz/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 @ $\theta_{amb}=50^\circ\text{C}$
最大峰值电流 Maximum current (\hat{I})	15 000A
最大冲击电流 Maximum surge current (\hat{I}_s)	60 000A
串联电阻 Series resistance (R_s)	0.3 m Ω @ 1kHz, 20°C (approximate TCR: 0.004/°C)
热阻 Thermal resistance (R_{th})	0.4K/W
自感 Self-inductance (L_s)	$\leq 50\text{nH}$ @ 1MHz
绝缘电阻 Insulation resistance ($IR \times C_N$)	$\geq 10\,000\text{s}$ (20°C, 100Vdc, 1min)
失效率 Failure rate	100 FIT
预期寿命 Expected lifetime	100 000h @ U_N , $\theta_{hs}=70^\circ\text{C}$
最高使用海拔 Max. altitude	2 000m
主体尺寸 Body dimension	L×W×H: 420mm×150mm×420mm
近似重量 Approximate weight	38kg



C3N





■ 产品代码 Part number

C3N3A608J0*****

■ 技术参数 Technical Datas

引用标准 Reference standards	GB/T 17702(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)
介质损耗角正切 Dielectric dissipation factor ($\tan\delta_d$)	2×10^{-4}
电容器的损耗角正切 Loss factor of the capacitor($\tan\delta$)	$\leq 40 \times 10^{-4}$ @100Hz
运行温度范围 (θ_{case}) Operating temperature range (θ_{case})	-40°C~85°C
热点温度 Hot-spot temperature (θ_{hs})	$\leq 85^\circ\text{C}$
贮存温度范围 Storage temperature range	-40°C~85°C
气候类别 Climatic category	40/85/56
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°C \pm 5°C)
耐电压(极壳之间) Test voltage between terminals and case	4 000Vac (10s, 50Hz/60Hz, 20°C \pm 5°C)
绝缘电压 Insulation voltage (U_i)	$U_N / \sqrt{2}$ Vac, 50Hz/60Hz
非周期冲击电压 Non-recurrent surge voltage (U_s)	1 500Vdc
最大电流 Maximum current (I_{max})	350A @ $\theta_{amb}=50^\circ\text{C}$
最大峰值电流 Maximum current (\hat{I})	6 000A
最大冲击电流 Maximum surge current (\hat{I}_s)	24 000A
串联电阻 Series resistance (R_s)	0.3 m Ω @ 1kHz, 20°C (approximate TCR: 0.004/°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 000m
失效率 Failure rate	100 FIT
预期寿命 Expected lifetime	100 000h @ U_N , $\theta_{hs}=70^\circ\text{C}$
主体尺寸 Body dimension	L \times W \times H: 380mm \times 160mm \times 282mm
近似重量 Approximate weight	24kg

