

C73

AC Harmonic Filter Capacitor

AC谐波滤波电容器

C73



产品特点.Characteristics

- 方形外壳封装, 干式树脂灌注;
 - 镀锡铜螺母/铜螺杆引出, 塑料定位盖, 安装方便;
 - 耐压高, 具有自愈性;
 - 高纹波电流, 高dv/dt承受能力;
 - 容量大、体积小
- Aluminum square case package, perfused with epoxy resin
 - Lead by tinned copper nut or copper screw, located plastic cover, easy installation
 - High withstand voltage, self-healing
 - High ripple current, high dv/dt withstand capability
 - Large capacitance, small size

产品应用.Application

- 广泛应用于电力电子设备中作交流滤波用。
- 在大功率UPS, 开关电源, 变频器等设备中作交流滤波, 治理谐波及提高功率因数。
- Widely used in power electronic equipment used for the AC filter.
- Acting as AC filter, harmonic control and power factor Improvement in high power UPS, switching power Supply, frequency converter and other equipment

性能参数.Technical Data

● 引用标准 Reference Standards	GB/T 17702 IEC 61071
● 工作温度范围 Operating Temperature Range	-40°C~+55°C Tmax+85°C (the highest temp.+85°C)
● 容量范围 Capacitance Range	3×40µF~3×500µF
● 额定电压 Rated Voltage	400VAC/50Hz~1140VAC/50Hz
● 容量偏差 Capacity Tolerance	±5%(J); ±10%(K)
● 极间耐压 Test Voltage Between Electrodes	2.15UN (AC) 10S 20°C
● 极壳耐压 Test Voltage Between Electrode And Case	1000+2×UN (VAC) 50Hz 60S (min 3000VAC)
● 损耗角正切 Dissipation Factor	tgδ≤2×10-3 at 20°C, 100Hz
● 绝缘电阻 Insulation Resistance	C•R≥10000S, at 100VDC, 20°C, 60S
● 最高使用海拔高度/maximum Altitude	2000m
	海拔2000m以上至5000m以内, 需要考虑降额使用 (每增加1000m, 电压及电流降额10%使用) For altitudes between 2000m and 5000m, consideration should be given to the use of deductions (10% reduction in voltage and current per 1000m increase)
● 预期寿命 Life Expectancy	100000hrs (Un θhotspot ≤ 55°C)

过压运行.Overtoltage Operation

1.1×Un	30% of on-load-dur.
1.15×Un	30 min/day
1.2×Un	5 min/day
1.3×Un	1min/day
1.5×Un	100ms each time, no more than 1000 times during the lifetime

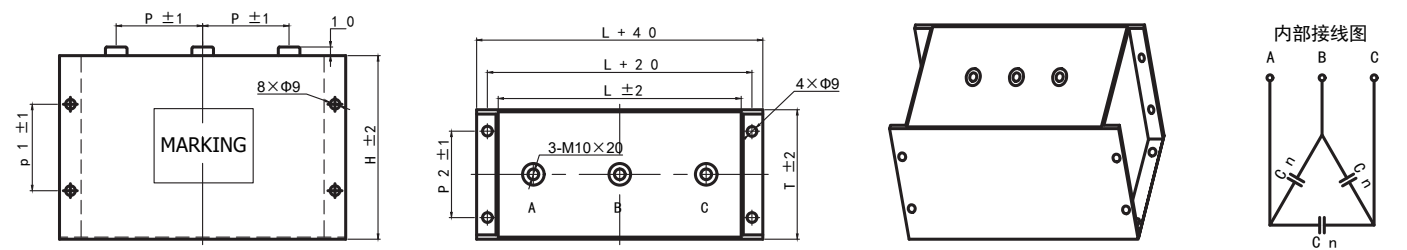
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结构图.Construction Diagram

典型线路图.Typical Circuit

产品外形.Product Shape



C73系列AC三相滤波电容器
C73 series AC three phase filter capacitor

产品编码.Product Coding

010203

C73

产品型号
Product model

040506

XXN

额定电压
Rated voltage
XX*10ⁿ (V)

0708

NX

多个容量引出
Multiple capacity extraction
NX

091011

XXN

标称容量
Nominal capacity
XX*10ⁿ (pF)

12

容量偏差
Capacity deviation
J ±5%
K ±10%

13

引出电极
Extraction electrode
F-螺母
F-Nut

141516

引线型号
Lead wire type

171819

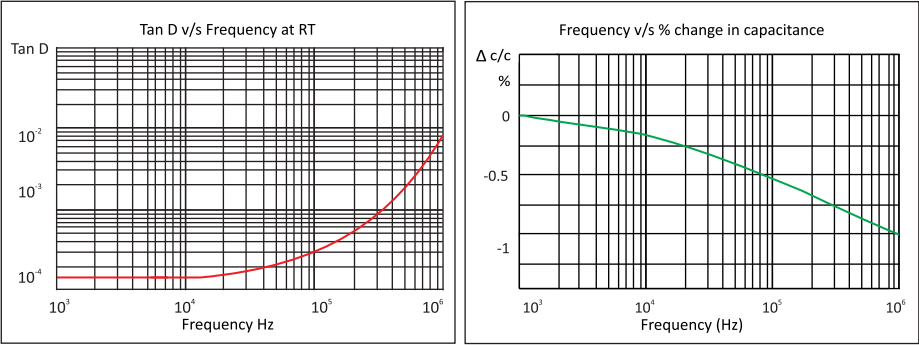
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序列号
Serial number
01、02...

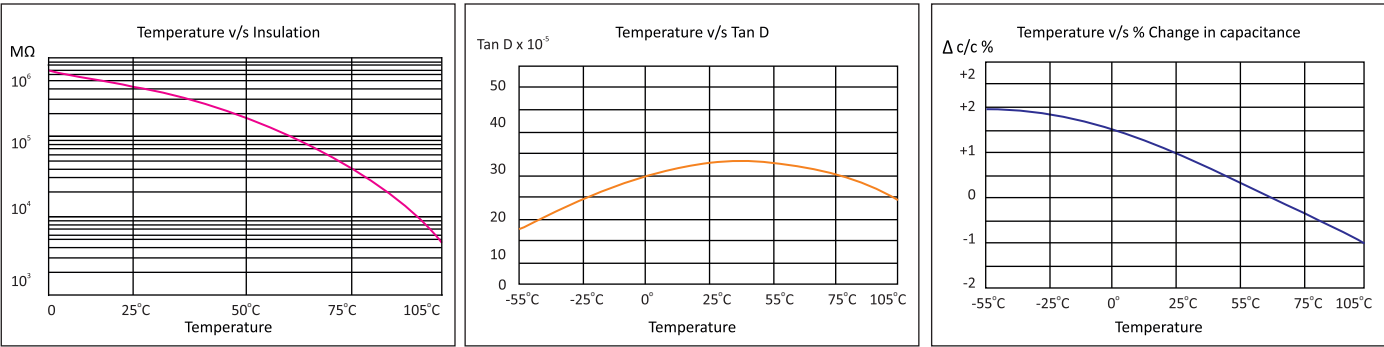
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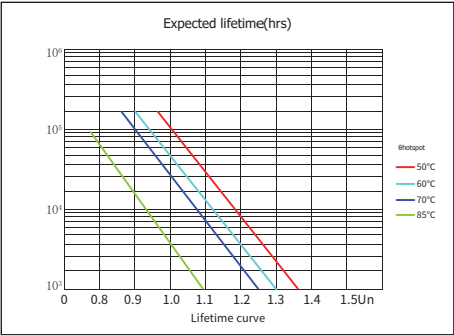
频率特性.Temperature Characteristics



温度特性.Frequency Characteristics



预期寿命 Life Expectancy



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参数表,Article Table

Part Number	CAP μF	Dimension（mm）			dV/dt (V/μS)	Ip (KA)	Is (KA)	Irms @ 50℃ (A)	Rth (K/W)	ESL (nH)	ESR @1KHz (mΩ)
		D	H	H							
UN =400VAC/50Hz											
C724013×207J●●●●●●	3×200	225	120	170	50	10.0	30.0	3×70	1.1	≤100	3×0.95
C724013×307J●●●●●●	3×300	225	120	235	40	12.0	36.0	3×90	0.8	≤100	3×0.85
C724013×407J●●●●●●	3×400	295	120	235	35	14.0	42.0	3×120	0.7	≤100	3×0.80
C724013×507J●●●●●●	3×500	365	120	235	30	15.0	45.0	3×160	0.6	≤100	3×0.78
UN =500VAC/50Hz											
C725013×127J●●●●●●	3×120	225	120	170	60	7.2	21.6	3×50	1.1	≤100	3×1.2
C725013×187J●●●●●●	3×180	225	120	235	50	9.0	27.0	3×70	0.8	≤100	3×1.05
C725013×247J●●●●●●	3×247	295	120	235	45	10.8	32.4	3×100	0.7	≤100	3×1.0
C725013×307J●●●●●●	3×307	365	120	235	40	12.0	36.0	3×120	0.6	≤100	3×0.9
UN =690VAC/50Hz											
C726913×506J●●●●●●	3×50	225	120	170	100	5.0	15.0	3×50	1.1	≤100	3×2.3
C726913×756J●●●●●●	3×75	225	120	235	90	6.8	20.4	3×70	0.8	≤100	3×2.1
C726913×107J●●●●●●	3×100	295	120	235	80	8.0	24.0	3×100	0.7	≤100	3×1.6
C726913×127J●●●●●●	3×125	365	120	235	80	10.0	30.0	3×120	0.6	≤100	3×1.3
UN =1140VAC/50Hz											
C721123×426J●●●●●●	3×42	340	175	200	120	5.0	15.0	3×80	0.6	≤100	3×3.3
C721123×606J●●●●●●	3×60	420	175	250	100	6.0	18.0	3×100	0.5	≤100	3×2.8

以上表格/图形仅供参考,以实物为准, (单位:mm)

The above table / graphics are for reference only, subject to the actual product (unit: mm)