

AC - filter 金属化薄膜电容器 AKMJ - S series

铜螺母 / 螺杆引出, 安装简单方便
Copper nut / screw leads, easy installation

耐压高, 具有自愈性
Resistance to high voltage, with self-healing

金属外壳封装, 干式树脂灌注
Metal package, Sealed with resin

高纹波电流, 高dv / dt承受能力
High ripple current, high dv / dt withstand capability

容量大, 体积小
Large capacity, small size



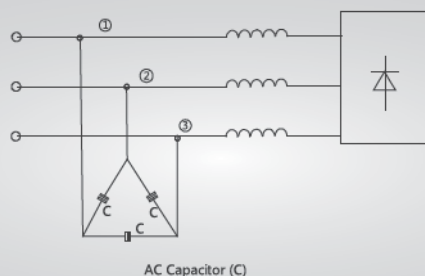
应用

- 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。

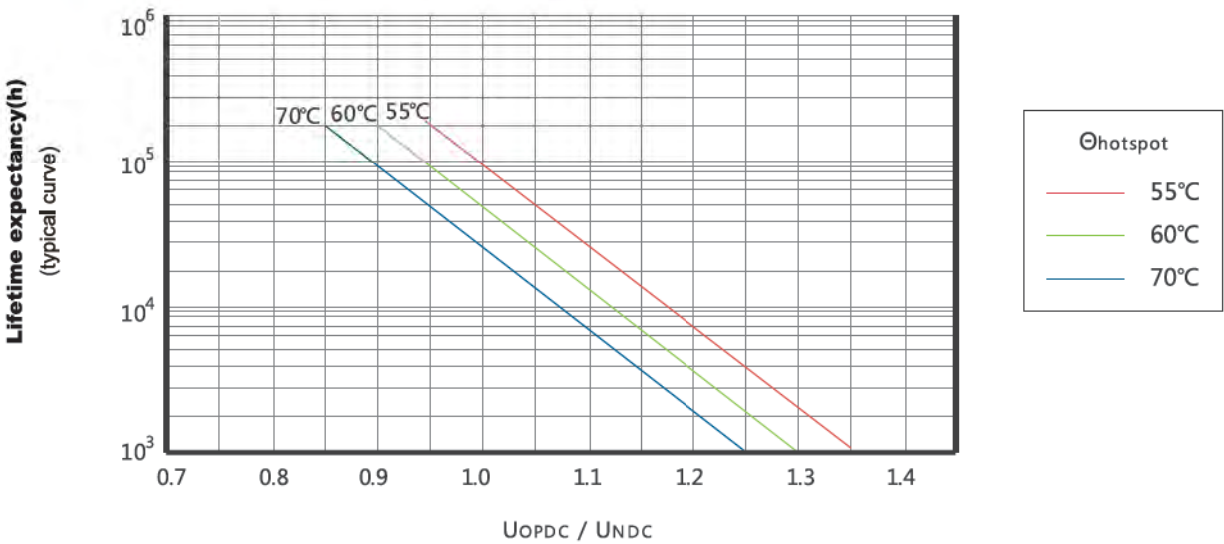
Application

- Widely used in power electronic equipment used for the AC filter.
- In the high - power UPS, switching power supply, inverter and other equipment for the AC filter, harmonics and improve power factor control.

典型线路图 A typical circuit diagram



预期寿命曲线图 Life expectancy in the graph



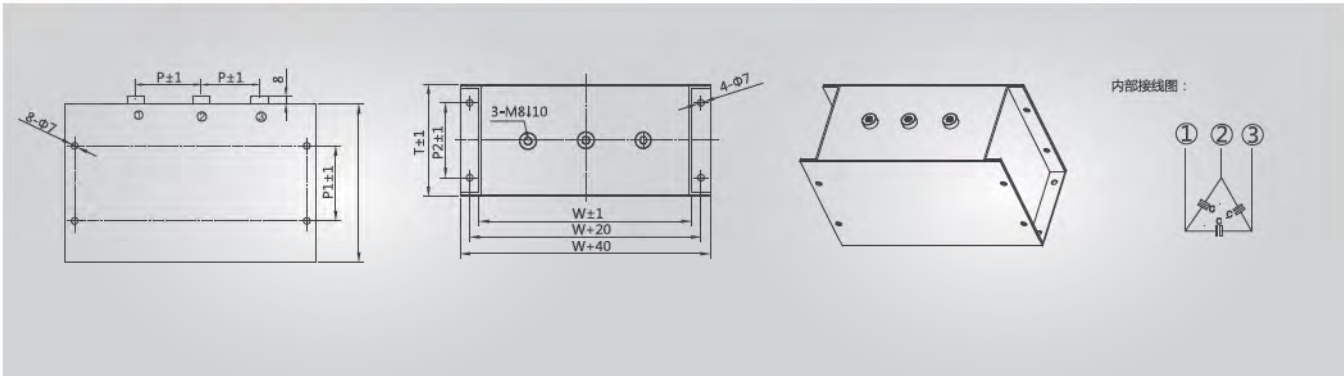
性能参数 Technical data

工作温度范围 / Operating temperature range	Max.Operating temperature.,Top,max : + 85°C
	Upper category temperature : + 55°C
	Lower category temperature : - 40°C
容量范围 (C _N) / Capacitance range	3 × 40μF ~ 3 × 500μF
额定电压 (U _N) / Rated voltage	400V.AC / 50Hz ~ 1140V.DC / 50Hz
容量偏差 / Cap.tol	± 5% (J)
耐电压 / Withstand voltage	Vt - t 2.15U _N / 10S
	Vt - c 1000 + 2 × U _N V.AC 60S (min3000V.AC)
过电压 / Over voltage	1.1U _N (30% of on - load - dur.)
	1.15U _N (30min / day)
	1.2U _N (5min / day)
	1.3U _N (1min / day)
	1.5U _N (100ms every time , 1000times during the lifetime)
损耗角正切 / Dissipation factor	tgδ ≤ 0.002 f = 100Hz
绝缘电阻 / Insulation resistance	介质损耗 tgδ ₀ ≤ 0.0002
耐脉冲电流冲击 / Withstand strike current	(内置放电电阻)
有效电流 / Irms	具体见规格表
杂散电感 / ESL	具体见规格表
阻燃性 / Flame retardation	< 100 nH
最高使用海拔高度 / Maximum aitude	UL94V - 0
预期寿命 / Life expectancy	2000m
引用标准 / Reference standard	海拔高度2000ml以上至5000ml以内,需考虑降额使用, (每增加1000m,电压及电流降额10%使用)
	100000h (U _N ; $\Theta_{\text{hotspot}} \leq 55^{\circ}\text{C}$)
	IEC61071 ; IEC60831



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外形图 The contour map



规格表 Technical data

C _N (μF)	W (mm)	T (mm)	H (mm)	dv/dt (V/μS)	I _p (kA)	I _{rms} 50°C (A)	ESR 1KHz (mΩ)	R _{th} (K/W)	Weight (Kg)
U _N 400V.AC 50Hz									
3×200	225	120	170	50	10.0	3×70	3×0.95	1.1	7
3×300	225	120	235	40	12.0	3×90	3×0.85	0.8	9
3×400	295	120	235	35	14.0	3×120	3×0.80	0.7	12
3×500	365	120	235	30	15.0	3×160	3×0.78	0.6	15
U _N 500V.AC 50Hz									
3×120	225	120	170	60	7.2	3×50	3×1.2	1.1	7
3×180	225	120	235	50	9.0	3×70	3×1.05	0.8	9
3×240	295	120	235	45	10.8	3×100	3×1.0	0.7	12
3×300	365	120	235	40	12.0	3×120	3×0.9	0.6	15
U _N 690V.AC 50Hz									
3×50	225	120	170	100	5.0	3×50	3×2.3	1.1	7
3×75	225	120	235	90	6.8	3×70	3×2.1	0.8	9
3×100	295	120	235	80	8.0	3×100	3×1.6	0.7	12
3×125	365	120	235	80	10.0	3×120	3×1.3	0.6	15
U _N 1140V.AC 50Hz									
3×42	340	175	200	120	5.0	3×80	3×3.3	0.6	17.3
3×60	420	175	250	100	6.0	3×100	3×2.8	0.5	26

