

# AC - filter 金属化薄膜电容器 AKMJ - S series Metalized film capacitor

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

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



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

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

容量大, 体积小  
Large capacity, small size

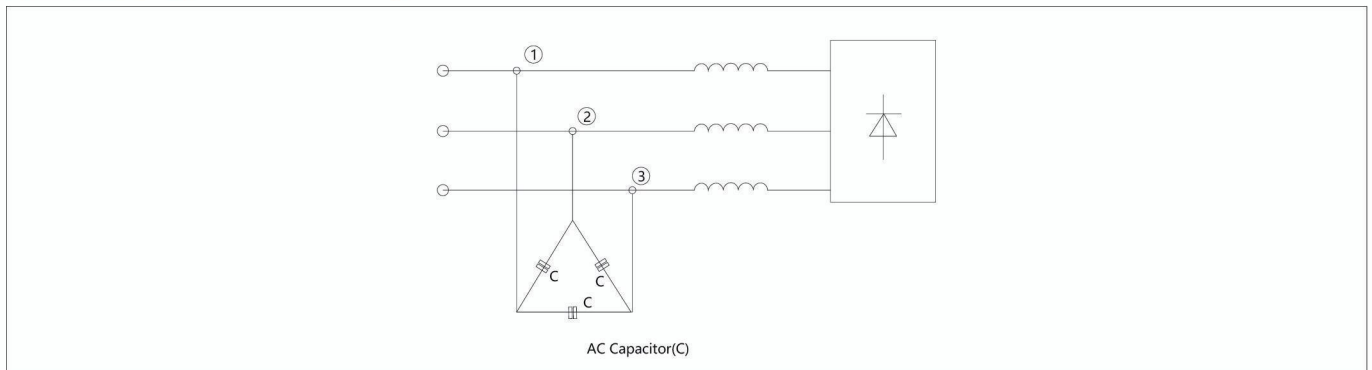
## 应用

- 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

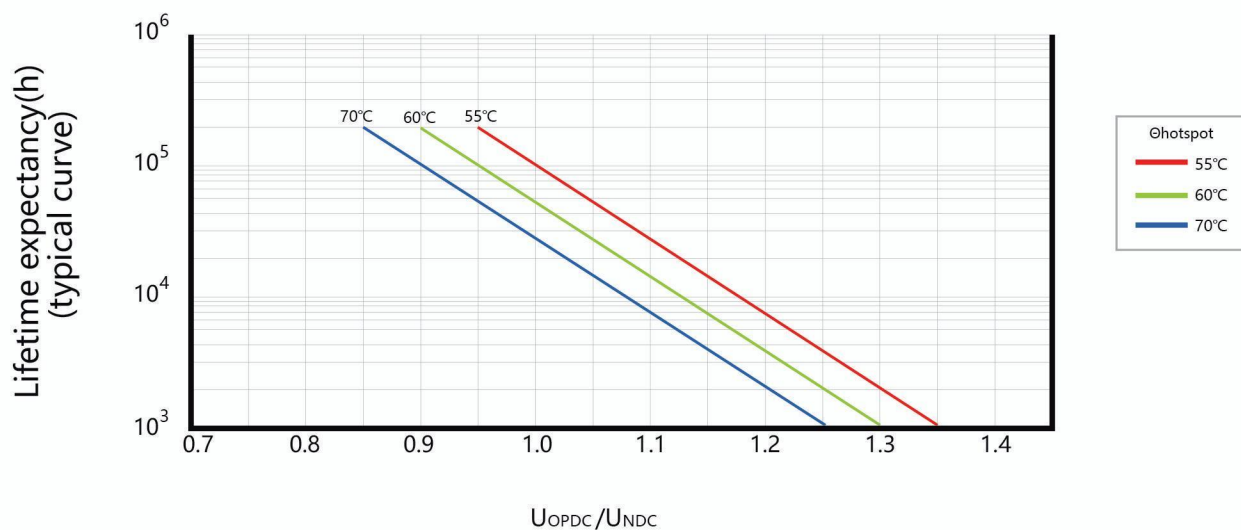
- Widely used in power electronic equipment used for the AC filter.
- In the high-power UPS, switching power supply, inverter and other equipment for the AC filter, harmonics and improve power factor control.

## 典型线路图 Typical circuit diagram



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## 预期寿命曲线图 Life expectancy in the graph



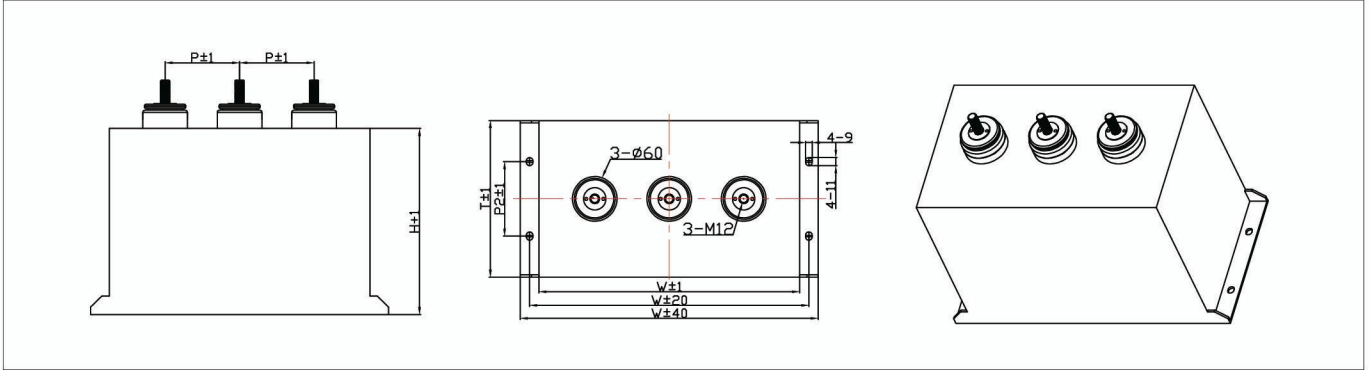
## 性能参数 Technical data

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 <sub>N</sub> ) / Capacitance range	3×40μF ~ 3×500μF	
额定电压 (U <sub>N</sub> ) / Rated voltage	450V.AC/50Hz ~ 1140V.AC/50Hz	
容量偏差 / Cap.tol	±5% (J)	
耐电压 / Withstand voltage	Vt - t	2.15U <sub>N</sub> /10s
	Vt - c	1000 + 2×U <sub>N</sub> V.AC 60s (min3000V.AC)
过电压/Over voltage	1.1U <sub>N</sub> ( 30% of on - load - dur. )	
	1.15U <sub>N</sub> ( 30min / day )	
	1.2U <sub>N</sub> ( 5min / day )	
	1.3U <sub>N</sub> ( 1min / day )	
	1.5U <sub>N</sub> (100ms every time,1000times during the lifetime )	
损耗角正切 / Dissipation factor	tgδ ≤ 0.002 f = 100Hz	
	介质损耗 tgδ <sub>0</sub> ≤ 0.0002	
绝缘电阻 / Insulation resistance	(内置放电电阻) / (Built-in discharge resistor)	
耐脉冲电流冲击 / Withstand strike current	具体见规格表/See the specification sheet	
有效电流 / Irms	具体见规格表/See the specification sheet	
杂散电感 / ESL	< 100nH	
阻燃性 / Flame retardation	UL94V - 0	
最高使用海拔高度 / Maximum altitude	2000m	
	Derating should be considered when the altitude is between 2000m -5000m. (For each increase of 1000m, voltage and current will be reduced by 10%)	
预期寿命 / Life expectancy	100000h (U <sub>N</sub> ; Θ <sub>hotspot</sub> ≤ 55°C)	
引用标准 / Reference standard	IEC61071; IEC60831	



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外形图 The contour map



规格表 Specification table

$C_N$ ( $\mu\text{F}$ )	W (mm)	T (mm)	H (mm)	dv/dt (V/ $\mu\text{S}$ )	$I_p$ (A)	$I_{rms}$ 50°C (A)	ESR 1kHz (m $\Omega$ )	$R_{th}$ (K/W)	Weight (kg)
<b><math>U_N</math> 400V.AC 50Hz</b>									
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
<b><math>U_N</math> 500V.AC 50Hz</b>									
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
<b><math>U_N</math> 690V.AC 50Hz</b>									
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
<b><math>U_N</math> 1140V.AC 50Hz</b>									
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

