

CAPACITOR



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AKMJ-S
AC—filter

POWER LINKS SUCCESS

AC - filter AKMJ - S series

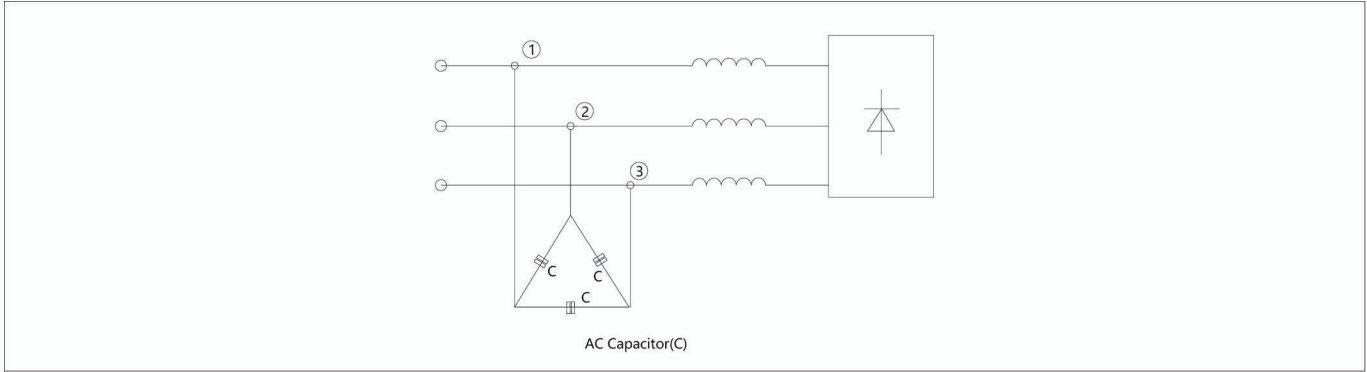
Metalized film capacitor



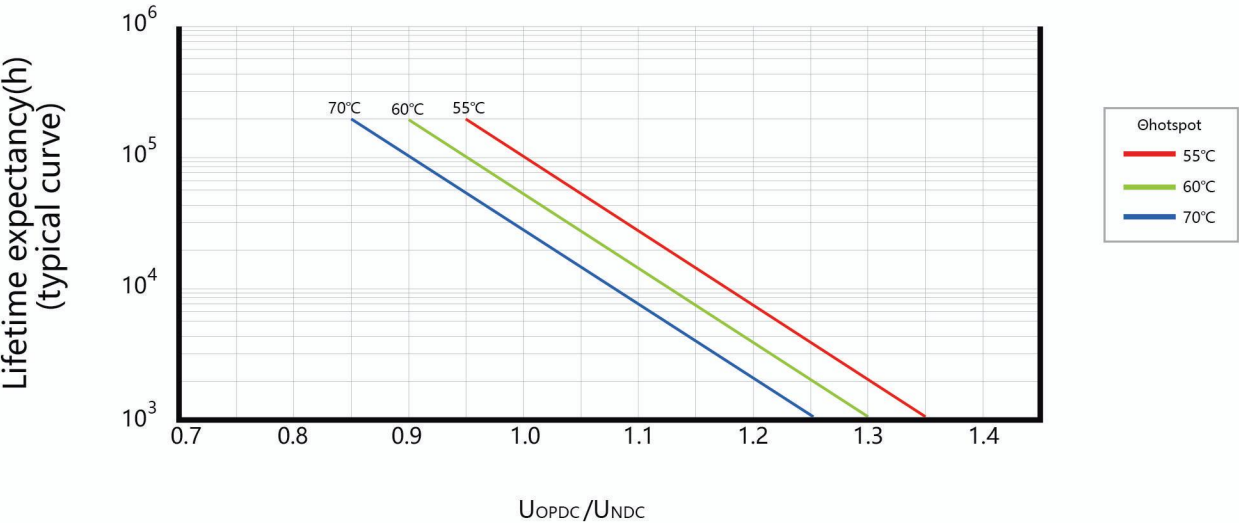
Application

- 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.

Typical circuit diagram



Life expectancy in the graph



Technical data

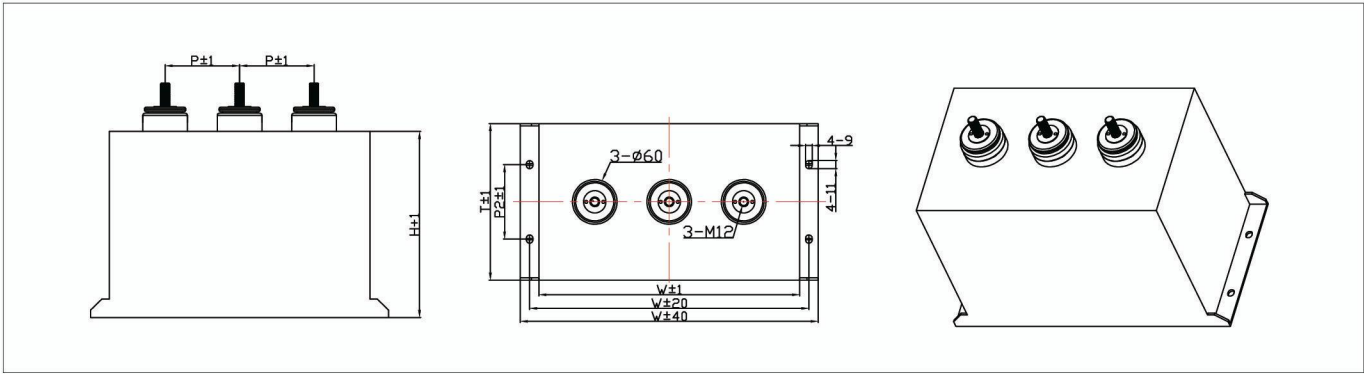
Operating temperature range	Max. Operating temperature, Top, max : + 85°C Upper category temperature : +55°C Lower category temperature: -40°C
(C _N) / Capacitance range	3×40µF ~ 3×500µF
(U _N) / Rated voltage	450V.AC/50Hz ~ 1140V.AC/50Hz
Cap.tol	±5% (J)
Withstand voltage	Vt - t 2.15U _N /10s Vt - c 1000 + 2×U _N V.AC 60s (min3000V.AC)
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)
Dissipation factor	tgδ ≤ 0.002 f = 100Hz tgδ ₀ ≤ 0.0002
Insulation resistance	(Built-in discharge resistor)
Withstand strike current	See the specification sheet
I _{rms}	See the specification sheet
ESL	< 100nH
Flame retardation	UL94V - 0
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%)
Life expectancy	100000h (U _N ; Θ _{hotspot} ≤ 55°C)
Reference standard	IEC61071; IEC60831



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The contour map



Specification table

C _N (μF)	W (mm)	T (mm)	H (mm)	dv/dt (V/μS)	I _p (A)	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

