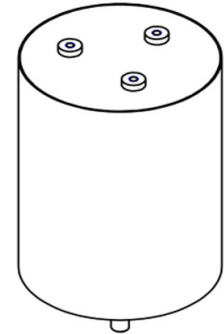


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Three Phase AC filter Capacitor With Delta Connection

❖General Description

Standard Reference	IEC 61071
Climatic Category	40 / 85 / 56
Max . Altitude	2000 m
Dielectric Material	Self-Healing Metallized Polypropylene
Case Type	Aluminum Case, Resin filled, UL94V-0
Terminals Type	Male or Female screw terminals
Capacitance Range	Cn: 3×1.0μF ~ 3×500μF
Capacitance Tolerance	J (±5%), K(±10%)
Dielectric Dissipation Factor	Dielectric Dissipation Factor (tg δ): 0.0002 (1kHz , 20°C)
Insulation Resistance	IR × Cn : ≥ 10000s (100Vdc, 60s, 20°C)
Rated Voltage	Urms : 300VAC ~ 3000VAC
Test voltage UTT	UTT: 1.5Urms (10s , 20°C) –Test voltage between both terminals
Test voltage UTC	UTC: 3k~6kVac (10s , 20°C) –Test voltage between terminals with case
	1.1 × Un : 30% of on-load duration
	1.15 × Un : 30 min/day
Maximum Over Voltage	1.2 × Un : 5 min/day
	1.3 × Un : 1 min/day
	1.5 × Un : 30 ms/time, 1000 times during the life of the capacitor
Operating Temperature	-40°C ~ +85°C; Øhs ≤ 85°C, 1.0Urms
Storage Temperature	-40°C ~ +85°C
Lifetime Expectancy	30,000 hours (1.0Urms , Øhs ≤ 70°C)
Max. Torque of terminals	M6 Female screw: 5 Nm , M8 Male screw: 6.5 Nm
Max. Torque of installation	M12/M16 Stud mounting : 10 Nm
Applications	Wind/Solar Inverter , SVG ,APF, High frequency power supply
Remarks	RoHs Compliant on request. Add "R" to p/n. *Other capacitance, voltage and dimensions are available on request.

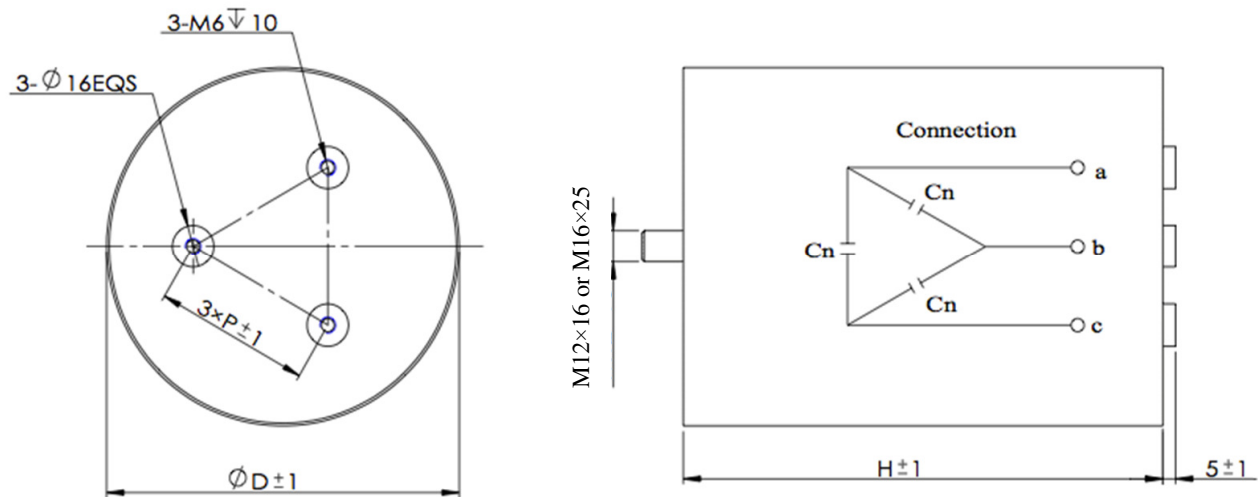


❖Part Number System

EX: USM52-127J450B190SPA

USM52	-	127		J		450		#		190		#		#
⋮		⋮		⋮		⋮		⋮		⋮		⋮		⋮
Series		Capacitance		Tolerance		Voltage		Terminal Style		H		Mounting		PA
		107=100.0μF		J=±5%		Urms		A= M8 Male		Height		C=Clamping		PA: Al.Case
		108=1000.0μF		K=±10%		VAC		B=M6 Female		See Dimension		S= Stud M12		

Terminal Style B : 3-M6 Female ; Mounting Style S: M12 × 16 or M16 × 25 (ΦD=126,136)



❖ Electrical Characteristics

Part Number	Cn	Urms	UTC	ESL	ESR	Irms	dv/dt	I peak	Dimension (mm)		
	μF	Vac	Vac	nH	mΩ	A	V/μs	Amps	ΦD	H	P
Urms : 450VAC, UTT : 675VAC or 970VDC , Delta Connection											
USM52-127J450B190SPA	3×120	450	4000	80	1.4	50	45	5400	116	190	36
USM52-207J450B270SPA	3×200	450	4000	100	1.6	60	40	8000	116	270	36
USM52-257J450B270SPA	3×250	450	4000	100	1.5	70	40	10000	136	270	36
Urms : 500VAC, UTT : 750VAC or 1075VDC , Delta Connection											
USM52-756J500B190SPA	3×75	500	4000	80	1.5	45	55	4125	116	190	36
USM52-127J500B270SPA	3×120	500	4000	100	2.0	50	50	6000	116	270	36
USM52-167J500B270SPA	3×160	500	4000	100	1.7	60	50	8000	136	270	60
Urms : 690VAC, UTT : 1035VAC or 1500VDC , Delta Connection											
USM52-286J690B175SPA	3×28	690	4000	80	1.8	40	70	1960	116	175	36
USM52-566J690B270SPA	3×56	690	4000	100	2.2	45	60	3360	116	270	36
USM52-756J690B270SPA	3×75	690	4000	100	2.0	55	60	4500	136	270	60
Urms : 780VAC, UTT : 1070VAC or 1680VDC , Delta Connection											
USM52-206J780B175SPA	3×20	780	4000	80	1.9	40	80	1600	116	175	36
USM52-406J780B270SPA	3×40	780	4000	100	2.2	45	70	2800	116	270	36
USM52-606J780B270SPA	3×60	780	4000	100	2.0	55	70	4200	136	270	60
Urms : 850VAC, UTT : 1275VAC or 1850VDC , Delta Connection											
USM52-186J850B175SPA	3×18	850	4000	80	1.8	35	90	1620	116	175	36
USM52-346J850B270SPA	3×34	850	4000	100	2.5	40	80	2720	116	270	36
USM52-456J850B270SPA	3×45	850	4000	100	2.2	50	80	3600	136	270	60

*Other capacitance , voltage and dimensions are available on request.

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