

FFC3铝壳三相交流滤波电容

HEAVY-DUTY AC FILTER CAPACITOR _FFC3 (THREE PHASE)

主要特点

- 可承受高有效值电流
- 可承受高频工作环境：upto 20kHz
- 可靠性高，使用寿命长
- 无极性介质

应用领域

- 大功率变频器中作高频交流滤波
- 风电变频器、光伏逆变器中作高频交流滤波
- UPS中作高频交流滤波

Highlight Features

- Withstand high Irms
- Withstand high frequency: upto 20kHz
- High reliability and life expectancy
- Non-polar

Applications

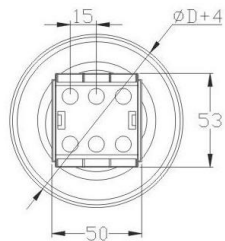
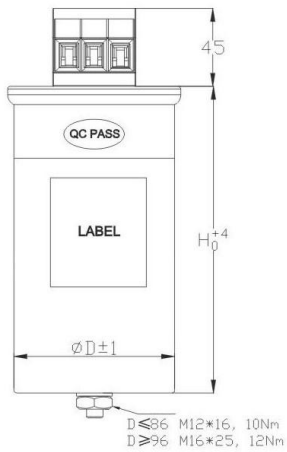
- Heavy-duty AC filter in frequency converter
- Heavy-duty AC filter in wind power converter
- Heavy-duty AC filter in PV inverter
- Heavy-duty AC filter in UPS



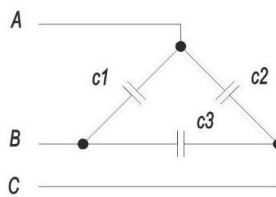
技术参数 Parameters

容量范围 Rated Capacitance	3*17µF ~ 3*200µF (25°C)
额定电压 Rated RMS Voltage	400VAC ~ 850VAC
容量偏差 Tolerance	±10% (standard), ±5% (upon request)
电介质 Dielectric	Metallized polypropylene
介质损耗 Dissipation factor	tand≤0.0002 (100Hz , 25°C)
运行温度 Operating temperature (T _{min} /T _{max})	-40°C ~ +70°C
核心温度 Hotspot temperature (Ths)	≤+85°C
储存温度 Storage temperature (Ts)	-40°C ~ +85°C
海拔高度 Altitude	≤2000m
预期寿命 Life expectancy	100,000 hours at Un and Ths≤70°C
极间耐压 Test voltage between terminals	1.25Un(AC) / 10s at 25°C or 1.75Un(DC) / 10s at 25°C
极壳耐压 Test voltage terminal to case	3000VAC / 2s at 25°C, 50/60Hz
过电压 Over voltage	1.1Urms (30% of on-load-duration) 1.15Urms (30 min / day) 1.2Urms (5 min / day) 1.3Urms (1 min / day)
结构 Construction	Filling with inert gas/ silicone oil, Non-inductive, over-pressure
外壳 Case	Aluminum case
参考标准 Reference standards	IEC61071-1991, UL810
安全认证 Safety Approvals	UL (Certificate NO.E237947)

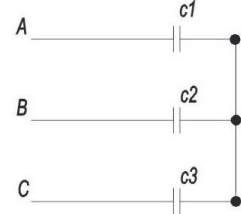
外观尺寸 Outline Drawing



Delta connection -D



Star connection -S



常用规格选型表 General Specifications Table

型号规格 Specification	C	φ D	H	ESR	Ipeak	I _{max}	R _{th}	产品代码 Code
	μf	mm	mm	mΩ	A	A	°C/W	
Urms=400V								
FFC3SY 400-17	3*17	65	150	3*1.25	450	20	6.89	L0400F0170UKD1HDFOP
FFC3SY 400-30	3*30	65	175	3*1.39	890	25	6.25	L0400F0300UKD1HHDOP
FFC3SY 400-50	3*50	76	205	3*1.35	1167	33	4.85	L0400F0500UKD1HEJOP
FFC3SY 400-66	3*66	76	240	3*1.45	1336	40	3.79	L0400F0660UKD1HELOP
FFC3SY 400-166.7	3*166.7	116	240	3*0.69	1458	54	3.10	L0400F1660UKD1HILOP
FFC3SY 400-200	3*200	136	240	3*0.45	2657	58	2.86	L0400F2000UKD1HKL0P
Urms=450V								
FFC3SY 450-50	3*50	86	205	3*1.35	802	30	4.36	L0450F0500UKD1HFJOP
FFC3SY 450-80	3*80	86	285	3*1.89	1467	46	3.69	L0450F0800UKD1HFMOP
FFC3SY 450-100	3*100	116	210	3*1.5	2040	56	3.8	L0450F1000UJD1AIUOP
FFC3SY 450-135	3*135	116	240	3*1.6	2680	58	3.1	L0450F1350UJD1AILOP
FFC3SY 450-150	3*150	136	205	3*2.5	3060	67	3.2	L0450F1500UJD1HKJ2P
FFC3SY 450-200	3*200	136	240	3*2.0	3730	60	3.46	L0450F2000UJD1HKL0P
Urms=530V								
FFC3SY 530-50	3*50	86	240	3*1.75	916	32	3.64	L0525F0500UKD1HFL0P
FFC3SY 530-66	3*66	96	240	3*1.36	1547	44	3.32	L0525F0660UKD1HGL0P
FFC3SY 530-77	3*77	106	240	1.16	1685	48	3.21	L0530F0770UKD1HL3P
FFC3SY 530-100	3*100	116	240	3*1.87	2000	65	4.20	L0530F1000UJD1AIL0P
Urms=690Vac								
FFC3SY690-25	3*25	86	240	3*2.22	697	29	3.54	L0690F0250UKD1HFL0P
FFC3SY690-33.4	3*33.4	96	240	3*1.81	837	36	3.21	L0690F0330UKD1HGL0P
FFC3SY690-55.7	3*55.7	116	240	3*1.24	1395	44	3.04	L0690F0550UKD1HIL0P
FFC3SY690-75	3*75	136	240	3*1.31	2100	53	2.87	L0690F075UKD1KD3P
Urms=850Vac								
FFC3SY850-25	3*25	96	240	3*1.95	679	30	3.25	L0850F0250UKD1HGL0P
FFC3SY850-31	3*31	106	240	3*1.57	906	36	2.98	L0850F0310UKD1HHL0P
FFC3SY850-55.7	3*55.7	136	240	3*0.90	1721	49	2.56	L0850F0550UKD1HKL0P
Urms=1200Vac								
FFC3SY1200-12	3*12	116	245	3*3.5	1300	56	3.60	L1300F0120UJS1HIU0P
FFC3SY1300-20	3*20	136	245	3*4.0	3300	56	2.29	L1300F0200UJS1AKU0P

注：特殊规格，可按客户要求定制。

Note: Customized products are available upon request.