

440v 变频器专用滤波器 440v Special Filter For Inverter

■ 产品概述 (Product Introduction)

- 1.降低变频器对电网的传导干扰
- 2.在150kHz~30MHz范围内拥有优越的插入衰减表现
- 3.端子系列采用紧凑超薄设计
- 4.提高整个系统可靠性
- 5.N99为使用铜排接头，其他为端子
- 6.端子为铜排以及后缀P系列的滤波器为高泄漏电流，适合过证测试使用，但不适用于有漏电保护器场合。
- 7.铜排以及后缀P系列的滤波器在电网电压不平衡及电容精度造成最大漏电流为33mA (400VAC/50Hz)

- 1.Reducing the conducted emission from inverter to power network.
- 2.Exceptional attenuation performance from 150kHz~30MHz.
- 3.Terminal series filter with most compact and slim design.
- 4.Improve the reliability of the whole system.
- 5.N99 for the use of copper bar. other terminals.
- 6.Terminals for copper and suffix P series of filter for high leakage currents, suitable for testing use, but does not apply to leakage protector occasions
- 7.Copper bar and filter the suffix P Series in non symmetrical and capacitance tolerance caused maximum leakage current is 33mA (400VAC/50Hz)

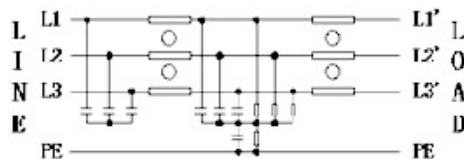
■ 技术参数 (Technical Data)

- 1.额定电压: 440/250 VAC
- 2.工作频率: 50Hz
- 3.额定电流: 10A~2500A
- 3.高压试验: P-E 2100VDC/2sec P-P 2100VDC/2sec
- 4.温度范围: -25℃~100℃ (25/100/21)
- 5.设计依据: IEC/EN 60939、UL1283
- 6.典型滤波频率: 150kHz~30MHz

- 1.Rated voltage: 440/250 VAC
- 2.Operating frequency: 50Hz
- 3.Rated current: 10A~2500A
- 3.High potential test voltage: P-E 2100VDC/2sec P-P 2100VDC/2sec
- 4.Temperature range: -25℃~100℃ (25/100/21)
- 5.Design corresponding to: IEC/EN 60939、UL1283
- 6.Typical work frequency: 150kHz~30MHz

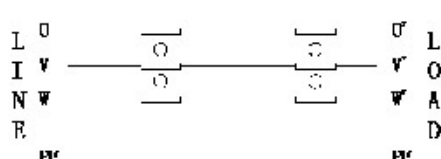
■ 输入滤波器典型电路图

(Typical electrical schematic of input filter)



■ 输出滤波器典型电路图

(Typical electrical schematic of output filter)



■ 典型应用 (Typical Applications)

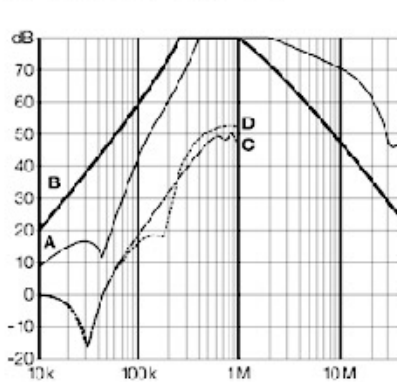
- 1.三相调速电机驱动、伺服驱动、变频器及逆变器
 - 2.能量转换装置，如机器及自动化设备
 - 3.空调设备，电梯，电力供应，UPS，注塑机
 - 4.风能，太阳能等新能源逆变系统
- 1.Three-phase variable speed motor drives, servo drives, inverter and converters
 - 2.Energy conversion devices, such as machines and automatic equipment
 - 3.HVAC equipment, elevators, power suppliers, UPS, Injection molding machine and further three-phase applies
 - 4.Wind energy, solar energy and other new energy inverter system



滤波器选型表 (Filter Selection Table)

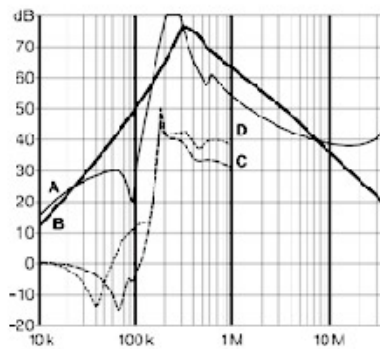
适配变频器参数 Adapter inverter parameter		滤波器型号 Filter type			额定电流 Rated current	端子代码 Connector code
功率 Drive power rating	额定电压 Rated voltage	输入滤波器 Input filter		输出滤波器 Output filter		
5.5kW	440VAC	RF4C10N6	RF4C10N6P	RFO4C10N6	10A	-N6
7.5kW	440VAC	RF4C20N6	RF4C20N6P	RFO4C20N6	20A	-N6
15kW	440VAC	RF4C30N10	RF4C30N10P	RFO4C30N10	30A	-N10
18.5kW	440VAC	RF4C40N10	RF4C40N10P	RFO4C40N10	40A	-N10
22kW	440VAC	RF4C50N16	RF4C50N16P	RFO4C50N16	50A	-N16
30kW	440VAC	RF4C65N16	RF4C65N16P	RFO4C65N16	65A	-N16
37kW	440VAC	RF4C80N35	RF4C80N35P	RFO4C80N35	80A	-N35
45kW	440VAC	RF4C100N35	RF4C100N35P	RFO4C100N35	100A	-N35
55kW	440VAC	RF4C130N50	RF4C130N50P	RFO4C130N50	130A	-N50
90kW	440VAC	RF4C180N95	RF4C180N95P	RFO4C180N95	180A	-N95
75kW	440VAC	RF4C150N99		RFO4C150N99	150A	
110kW	440VAC	RF4C200N99		RFO4C200N99	200A	
132kW	440VAC	RF4C250N99		RFO4C250N99	250A	
160kW	440VAC	RF4C320N99		RFO4C320N99	320A	
220kW	440VAC	RF4C400N99		RFO4C400N99	400A	
315kW	440VAC	RF4C600N99		RFO4C600N99	600A	
400kW	440VAC	RF4C800N99		RFO4C800N99	800A	
560kW	440VAC	RF4C1000N99		RFO4C1000N99	1000A	
900kW	440VAC	RF4C1600N99		RFO4C1600N99	1600A	
1320kW	440VAC	RF4C2500N99		RFO4C2500N99	2500A	

输入滤波器插入损耗 (Input Filter Attenuation)

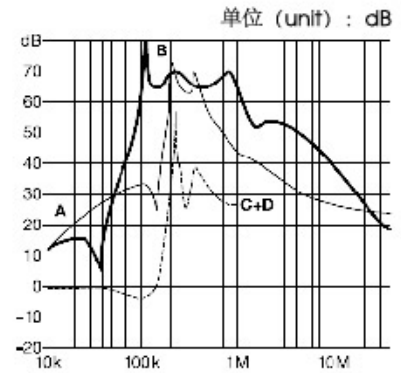


10A-50A

A:50N/50Ω sym, B:50N/50Ω asym, C: 0.1Ω/100Ω sym D:100N/0.1Ω sym



65A-180A(端子) connector



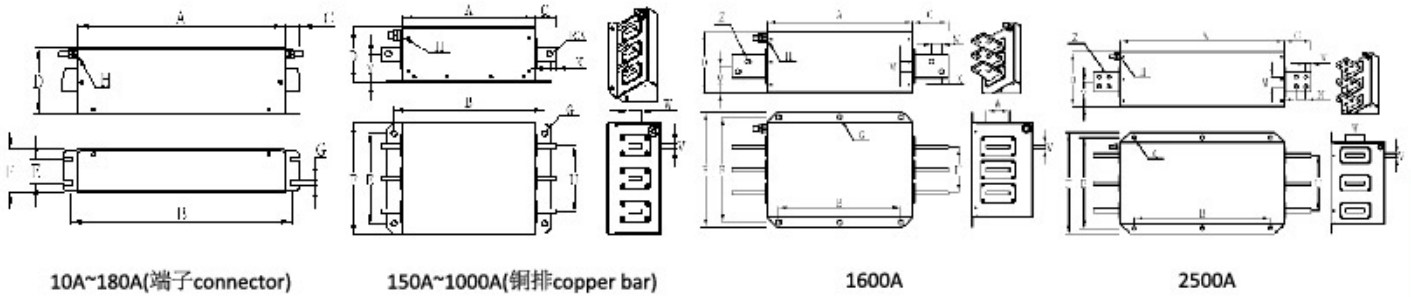
150A-2500A(铜排) Copper bar

单位 (unit) : dB

滤波器输入输出端子接线范围及扭矩选择 (Filter Input/output Connector Cross Sections)

	-N6	-N10	-N35	-N35	-N50	-N95
多股软线/mm ² Flex wire	0.5-6	0.5-10	1-16	10-35	16-50	25-95
单标线规 AWG number	AWG8-26	AWG6-24	AWG4-20	AWG2-8	AWG6-1/0	AWG4-4/0
推荐扭矩/N.m Recommended torque	1.36	1.36	2.71	4.41	4.41	19.2

■ 产品尺寸图 (Product Size)



代号 电流 Code Current	A	B	C	D	E	F	G	H	M	N	U	V	W	X	Y	Z
10A	168	180	15.5	75	20	40	4.5	M5								
20A	220	235	15.5	75	25	45	5.5	M5								
30A~40A	240	255	35	85	30	50	5.5	M5								
50A~65A	220	235	35	90	60	85	5.5	M6								
80A~100A	240	255	38.5	140	60	85	6.5	M8								
130A	240	255	48.5	150	65	95	6.5	M8								
180A	350	365	50	170	102	120	6.5	M8								
150A~250A	240	275	40	100	165	205	11.5	M10			120	3	20	10	51.5	9
320A								M10			120	6	25	12.5	51.5	11
400A								M10			120	6	25	12.5	51.5	11
600A								M10			120	8	25	12.5	51.5	11
800A	310	345	50	130	155	205	11.5	M10			120	8	40	20	68.5	13.5
1000A								M10			120	8	40	20	68.5	13.5
1600A	400	340	93	160	275	300	12.5	M12	26	26	120	10	60	17	68	14
2500A	600	500	98	200	330	370	14.5	M12	35	35	200	15	70	20	90	14

(单位 unit: mm)



滤波器