滤波器 Filter

ZHEJIANG SAIKONG ELECTRICAL TECHNOLOGY CO.，LTD

EMC滤波器 EMC Filter

440V 24025系列滤波器 440V 24025 series filters

■ 产品概述 (Product Introduction)

降低变频器对电网的传导干扰
低成本设计方案，有效降低用户 使用成本
提高整个系统可靠性
适用于变频、逆变、伺服等电力电子设

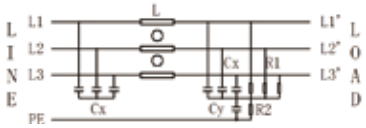
Reducing the conducted emission from inverter to power network.
Low cost design, reduce the cost of users
Improve the reliability of the whole system
Suitable for power electronic equipment such as inverter, converter, servo and so on.

■ 技术参数 (Technical Data)

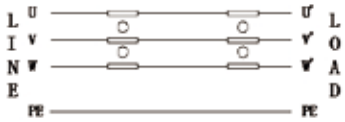
额定电压：440/250 VAC
工作频率：50Hz
额定电流：5A~1000A
高压试验：P-E 2100VDC/2sec P-P 2100VDC/2sec
温度范围：-25℃~100℃ (25/100/21)
设计依据：IEC/EN 60939
典型滤波频率：150kHz~30MHz

Rated voltage : 440/250 VAC
Operating frequency : 50Hz
Rated current : 5A~1000A
High potential test voltage : P-E 2100VDC/2sec P-P 2100VDC/2sec
Temperature range : -25℃~100℃ (25/100/21)
Temperature range : IEC/EN 60939
Typical work frequency : 150kHz~30MHz

输入滤波器典型电路图



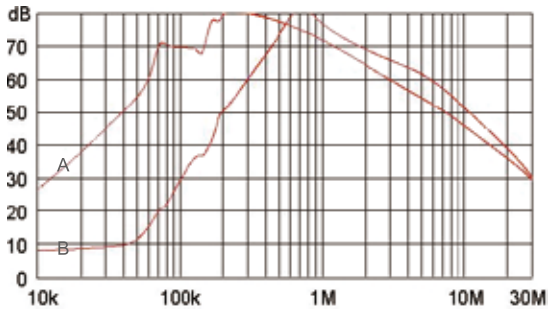
输出滤波器典型电路图



■ 滤波器选型表 (Filter Selection Table)

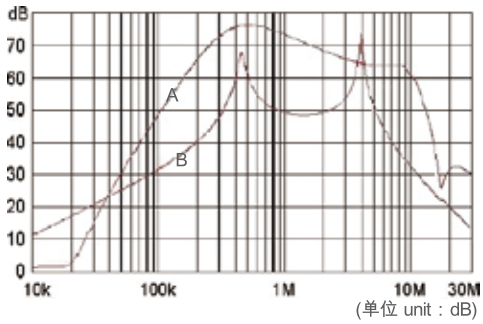
功 率 Drive power rating	额定电压 Rated voltage	额定电流 Rated current	输入滤波器型号 Input filter	输出滤波器型号 Output filter	端子类型 Connector type
1.5kW	440VAC	5A	SKI24025-5	SKO24025-5	端子台barrier terminal
3.7kW	440VAC	10A	SKI24025-10	SKO24025-10	端子台barrier terminal
7.5kW	440VAC	20A	SKI24025-20	SKO24025-20	端子台barrier terminal
11kW	440VAC	30A	SKI24025-30	SKO24025-30	端子台barrier terminal
18.5kW	440VAC	40A	SKI24025-40	SKO24025-40	端子台barrier terminal
22kW	440VAC	50A	SKI24025-50	SKO24025-50	端子台barrier terminal
30kW	440VAC	65A	SKI24025-65	SKO24025-65	端子台barrier terminal
37kW	440VAC	80A	SKI24025-80	SKO24025-80	端子台barrier terminal
45kW	440VAC	100A	SKI24025-100	SKO24025-100	端子台barrier terminal
55kW	440VAC	120A	SKI24025-120	SKO24025-120	端子台barrier terminal
75kW	440VAC	150A	SKI24025-150	SKO24025-150	螺杆screw
90kW	440VAC	200A	SKI24025-200	SKO24025-200	螺杆screw
110kW	440VAC	250A	SKI24025-250	SKO24025-250	铜排copper bar
160kW	440VAC	320A	SKI24025-320	SKO24025-320	铜排copper bar
200kW	440VAC	400A	SKI24025-400	SKO24025-400	铜排copper bar
315kW	440VAC	600A	SKI24025-600	SKO24025-600	铜排copper bar
400kW	440VAC	800A	SKI24025-800	SKO24025-800	铜排copper bar
500kW	440VAC	1000A	SKI24025-1000	SKO24025-1000	铜排copper bar

输入滤波器插入损耗 (input filter attenuation)



5A~200A

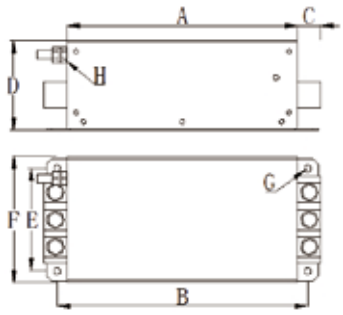
A:50N/50Ω sym ,B:50N/50Ω asym



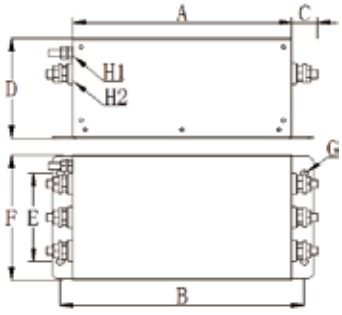
(单位 unit : dB)

250A~1000A

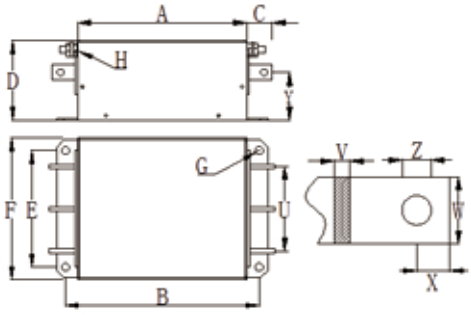
产品尺寸图



5A~120A



150A



250-1000A

代号 Code / 电流 Current	A	B	C	D	E	F	G	H H1 H2	U	V	W	X	Y	Z
5A~10A	120	133.5	20	60	52	70	4.5	M4						
20A	150	163.5	20	60	55	75	4.5	M5						
30A~50A	200	220	23	75	80	100	5.5	M6						
65A~120A	220	240	23	85	98	120	5.5	M8						
150A~200A	260	290	33	120	105	150	8.5	M8 M10						
250A	240	275	40	100	165	205	11.5	M10	120	3	20	10	51.5	9
320A	240	275	40	100	165	205	11.5	M10	120	4	25	12.5	51.5	11
400A	240	275	40	100	165	205	11.5	M10	120	6	25	12.5	51.5	11
600A	240	275	40	100	165	205	11.5	M10	120	8	25	12.5	51.5	11
800A~1000A	310	345	50	130	155	205	11.5	M10	120	8	40	20	68.5	13.5

(单位 unit : mm)

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 tes· 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 cze caused maximum leakage current is 33mA （ 400VAC/50Hz）

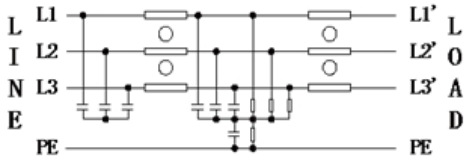
■ 技术参数 （Technical Data）

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

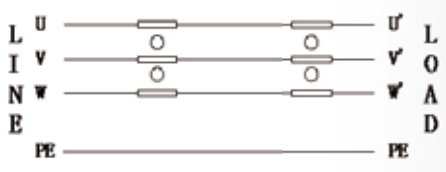
■ 输入滤波器典型电路图

(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

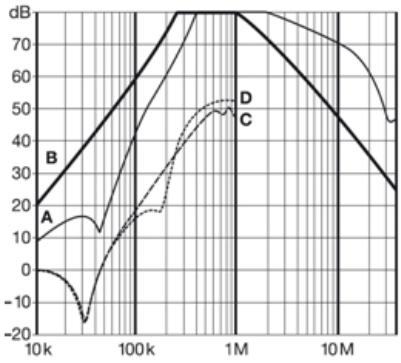
1.Three-phase variable speed motor drives, servo drives, inverter and converters
2.Energy conversion devices, such as machines and automatic equipment
3.HVAC equipment, elevators, power suppliers, UPS, injection molding machine and furthther three-phase applies
4.Wind energy, solar energy and other new energy inverter system

滤波器选型表 (Filter Selection Table)

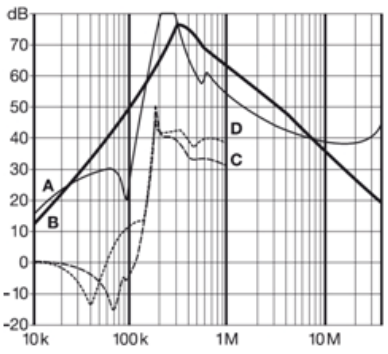
适配变频器参数 Adapter inverter parameter		滤波器型号 Filter type			额定电流 Rated current	端子代码 Connector code
功率 Drive power rating	额定电压 Rated voltage	输入滤波器 Input filter		输出滤波器 Output filter		
5.5kW	440VAC	SKI4C10N6	SKI4C10N6P	SKO4C10N6	10A	-N6
7.5kW	440VAC	SKI4C20N6	SKI4C20N6P	SKO4C20N6	20A	-N6
15kW	440VAC	SKI4C30N10	SKI4C30N10P	SKO4C30N10	30A	-N10
18.5kW	440VAC	SKI4C40N10	SKI4C40N10P	SKO4C40N10	40A	-N10
22kW	440VAC	SKI4C50N16	SKI4C50N16P	SKO4C50N16	50A	-N16
30kW	440VAC	SKI4C65N16	SKI4C65N16P	SKO4C65N16	65A	-N16
37kW	440VAC	SKI4C80N35	SKI4C80N35P	SKO4C80N35	80A	-N35
45kW	440VAC	SKI4C100N35	SKI4C100N35P	SKO4C100N35	100A	-N35
55kW	440VAC	SKI4C130N50	SKI4C130N50P	SKO4C130N50	130A	-N50
90kW	440VAC	SKI4C180N95	SKI4C180N95P	SKO4C180N95	180A	-N95
75kW	440VAC	SKI4C150N99		SKO4C150N99	150A	
110kW	440VAC	SKI4C200N99		SKO4C200N99	200A	
132kW	440VAC	SKI4C250N99		SKO4C250N99	250A	
160kW	440VAC	SKI4C320N99		SKO4C320N99	320A	
220kW	440VAC	SKI4C400N99		SKO4C400N99	400A	
315kW	440VAC	SKI4C600N99		SKO4C600N99	600A	
400kW	440VAC	SKI4C800N99		SKO4C800N99	800A	
560kW	440VAC	SKI4C1000N99		SKO4C1000N99	1000A	
900kW	440VAC	SKI4C1600N99		SKO4C1600N99	1600A	
1320kW	440VAC	SKI4C2500N99		SKO4C2500N99	2500A	

输入滤波器插入损耗 (Input Filter Attenuation)

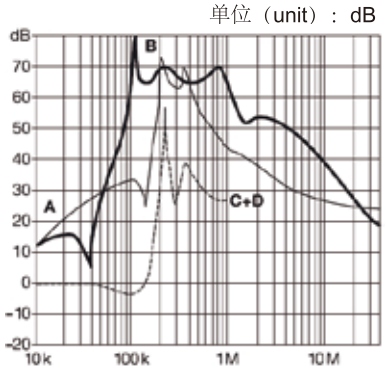
单位（unit）：dB



10A~50A



65A~180A(端子) connector



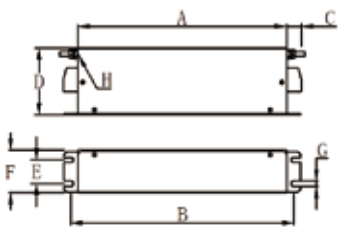
150A~2500A(铜排) Copper bar

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

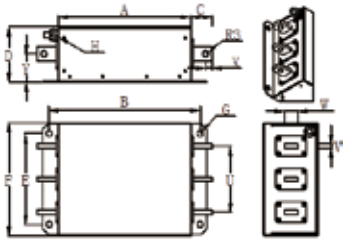
滤波器输入输出端子接线范围及扭矩选择 (Filter Input/output Connector Cross Sections)

	-N6	-N10	-N35	-N35	-N50	-N95
多股软线/mm² Flex wire	0.5~6	0.5~10	1~16	10~35	16~50	25~95
美标线规 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

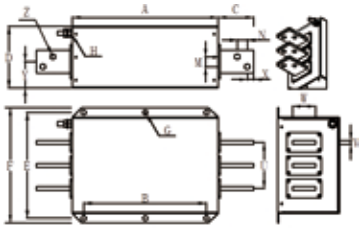
■ 产品尺寸图 (Product Size)



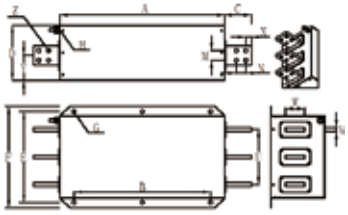
10A~180A(端子connector)



150A~1000A(铜排copper bar)



1600A



2500A

代号 Code / 电流 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	43	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	4	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	6	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)

440v三相四线滤波器 440v 3-phase + Neutral Line Filters

■ 产品概述 (Product Introduction)

1.降低整个系统对电网的传导干扰
2.在150kHz~30MHz范围内拥有优越的插入衰减表现
3.设计紧凑，优化工业设计
4.系统进线安装该系列的滤波器，可以提高整个系统可靠性
5.N99为使用铜排接头，其他为端子

1.Reducing the conducted emission from inverter to power network.
2.Exception attenuation performance from 150kHz~30MHz
3.Compact, space-saving design, optimized forindustrial machinery
4.Increases also the immunity if operated directlyon the mains input
5.N99 for the use of copper bar, other terminals

■ 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~600A (@50℃)
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

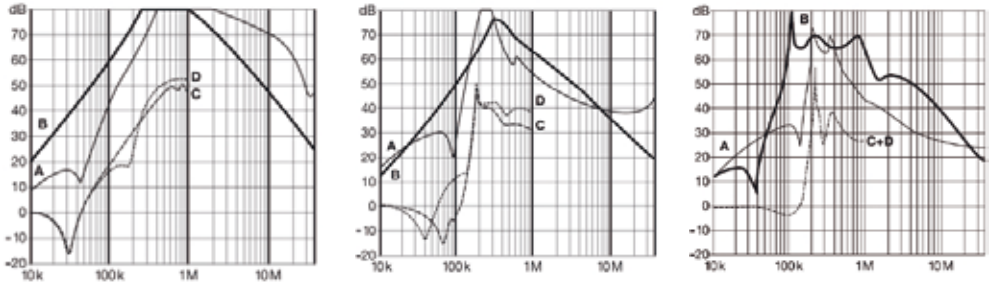
1.Rated voltage： 440/250 VAC
2.Operating frequency： 50Hz
3.Rated current： 10A~600A（@50℃）
3.High potential test voltage： P-E 2100VDC/2sec P-P 2100VDC/2sec
4.Temperature range： -25℃~100℃（25/100/21）
5.Design corresponding to： IEC/EN 60939、UL1283
6.Typical work frequency： 150kHz~30MHz

■ 典型应用 (Typical Applications)

主要应用于工业设备，机械，机床及其他自动化控制的三相四线电力系统。由于出色的性能衰减，该系列滤波器也是嘈杂的电源的首选，应用于可再生能源、大功率的办公设备和其他三相四线的设备。因为相对较低的漏电流，该系列滤波器甚至可以用于一些医疗设备。

Mainly industrial equipment, machinery, machinetools and diverse process auto- mation systems withthree-phase and neutral electricity supply. Due to theoutstanding attenuation performance, The series is alsothe first choice for noisy power supplies, renewableenergy applications, highpower office equipment andfurther three-phase and neutral devices. Because ofthe relatively low leakage current, The series may evenbe used for some medical devices.

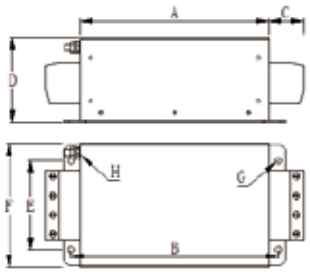
■ 输入滤波器插入损耗 (input filter attenuation)

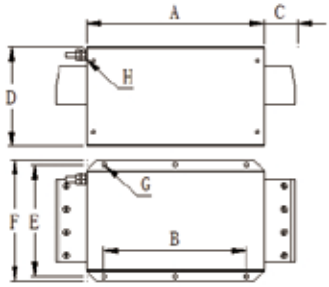


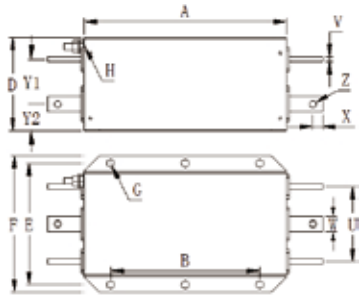
滤波器选型表 (Filter Selection Table)

滤波器型号 Filter type	额定电流 Rated current @40°C [A]	漏电流 Leakage current @230VAC/50Hz [mA]	能量损耗 Power loss @25°C/50Hz [W]	端子类型 Connector type
SKI4NC8N06	8	<1	3.2	端子 solid safety connector
SKI4NC16N06	16	<1	6.5	端子 solid safety connector
SKI4NC25N10	25	<1	11.8	端子 solid safety connector
SKI4NC36N10	36	<1	15.3	端子 solid safety connector
SKI4NC50N16	50	<1	17.4	端子 solid safety connector
SKI4NC65N16	65	<1	18.9	端子 solid safety connector
SKI4NC100N35	100	<1	23.6	端子 solid safety connector
SKI4NC130N50	130	<1	28.5	端子 solid safety connector
SKI4NC160N95	160	<1	31	端子 solid safety connector
SKI4NC200N95	200	<1	47.4	端子 solid safety connector
SKI4NC300N99	300	<1	20.3	铜排 copper bar
SKI4NC400N99	400	<1	36	铜排 copper bar
SKI4NC600N99	600	<1	64.8	铜排 copper bar

产品尺寸图 (Product Size)







代号 Code / 电流 Current	A	B	C	D	E	F	G	H	U	V	W	X	Y1	Y2	Z
8A~16A	160	180	15.5	80	65	100	5.5	M5							
25A~36A	160	180	35	100	75	115	5.5	M5							
50A~65A	190	210	35	110	90	125	6.4	M6							
100A	230	120	38.5	125	150	163	6.4	M8							
130A	250	200	43	140	157	170	6.4	M8							
160A~200A	280	220	52	170	166	180	6.4	M8							
300A	325	240	58	150	195	220	11	M10	120	4	25	12.5	72	43	11
400A	325	240	58	150	195	220	11	M10	120	6	25	12.5	72	43	11
600A	325	240	58	150	195	220	11	M10	120	8	25	12.5	72	43	11

(单位 unit：mm)

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	-N16	-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
美标线规 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

690V变频器专用滤波器 special filter for 690V inverter

■ 产品概述 （Product Introduction ）

1.降低变频器对电网的传导干扰
2.提高整个系统可靠性
3.100A以下使用端子,200A以上使用铜排接头
4.低泄露电流，缺相最大漏电流为13.12mA(P型除外)

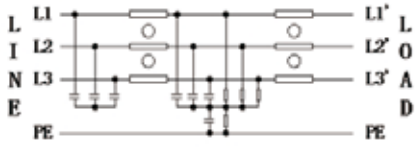
1.Reducing the conducted emission from inverter to power network.
2.Improve the reliability of the whole system.
3.less than 100A filters, using solid safety connector, more than 200A filters, using copper bar
4.Low leakage current,Lack of a phase, The maximum leakage current is 13.12mA (except P type).

■ 技术参数 （Technical Data）

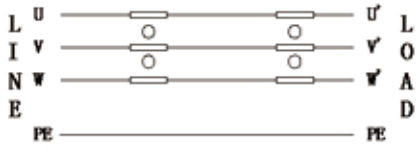
1.额定电压：690/380 VAC
2.工作频率：50Hz
3.额定电流：120A~1000A
3.高压试验：P-E 2850VDC/60sec P-P 2850VDC/60sec
4.温度范围：-25℃~100℃（25/100/21）
5.设计依据：IEC/EN 60939
6.典型滤波频率：150kHz~30MHz

1.Rated voltage： 690/380 VAC
2.Rated frequency： 50Hz
3.Rated current： 120A~1000A
3.High potential test voltage： P-E 2850VDC/60sec P-P 2850VDC/60sec
4.Temperature range： -25℃~100℃（25/100/21）
5.Design corresponding to： IEC/EN 60939
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)



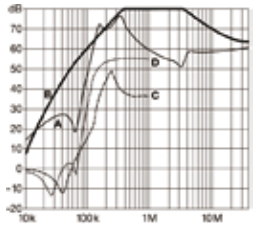
■ 典型应用 （Typical Applications ）

该系列滤波器主要应用于690V变频器，以及其他690V系统。P系列用于过证测试使用，不可以用于矿井下，否则可能会导致漏电保护器跳闸。

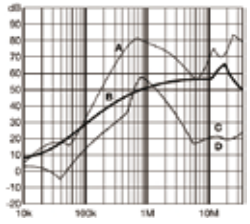
The series filter is mainly used in 690V inverter, and other 690V system. The P series is used to conducted emission test, can not be used in the mine, otherwise may cause the electric leakage protector to trip.

■ 输入滤波器插入损耗 (Input Filter Attenuation)

(单位 unit：dB)



25A~100A



200A~1000A

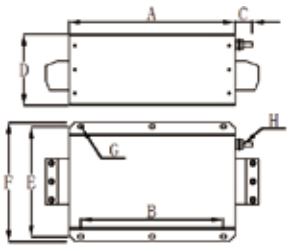
A:50N/50Ω sym，B:50N/50Ω asym，C：0.1Ω/100Ω sym D:100N/0.1Ω sym

滤波器选型表 (Filter Selection Table)

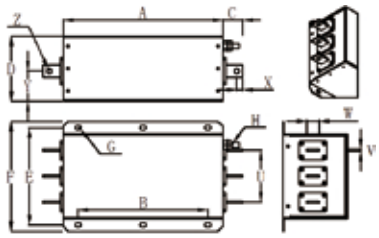
过证用输入滤波器最后加P，如输入25A型号为RFI6B25N10P)
Conducted emission test input filter with the final plus P, such as the input 25A model for RFI6B25N10P

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		
18.5kW	660-690VAC	SKI6C25N10	SKO6C25N10	25A	-N10
37kW	660-690VAC	SKI6C50N35	SKO6C50N35	50A	-N35
55kW	660-690VAC	SKI6C80N35	SKO6C80N35	80A	-N35
75kW	660-690VAC	SKI6C100N35	SKO6C100N35	100A	-N35
132kW	660-690VAC	SKI6C200N99	SKO6C200N99	200A	
150kW	660-690VAC	SKI6C200N99	SKO6C200N99		
185kW	660-690VAC	SKI6C250N99	SKO6C250N99	250A	
200kW	660-690VAC	SKI6C250N99	SKO6C250N99		
250kW	660-690VAC	SKI6C350N99	SKO6C350N99	350A	
315kW	660-690VAC	SKI6C400N99	SKO6C400N99	400A	
400kW	660-690VAC	SKI6C550N99	SKO6C550N99	550A	
500kW	660-690VAC	SKI6C650N99	SKO6C650N99	650A	
630kW	660-690VAC	SKI6C800N99	SKO6C800N99	800A	
715kW	660-690VAC	SKI6C900N99	SKO6C900N99	900A	
800kW	660-690VAC	SKI6C1000N99	SKO6C1000N99	1000A	

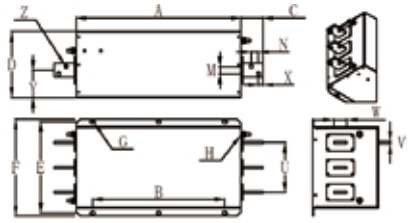
产品尺寸图 (Product Size)



25A~100A



20A~550A



650A~1000A

代号 Code / 电流 Current	A	B	C	D	E	F	G	H	M	N	U	V	W	X	Y	Z
25A	180	120	35	100	155	168	6X9	M8								
50A~100A	280	240	39	120	185	200	6X9	M8								
200A~250A	320	260	40	130	195	220	8X15	M8			104	4	25	12.5	60	10.5
350A~550A	420	340	45	170	248	270	11X18	M10			140	8	40	12.5	75	10.5
650A~1000A	600	480	80	240	330	350	11X18	M10	26	26	180	8	50	17	100	12.5

(单位 unit：mm)

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	-N16	-N35	-N50	-N95
多股软线/mm² Flex wire	0.5~6	0.5~10	1~16	10~35	16~50	25~95
美标线规 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

1140V变频器专用滤波器special filter for 1140V inverter

■ 产品概述 （Product Introduction ）

1.降低变频器对电网的传导干扰
2.P系列设计更有利于通过传导测试
3.提高整个系统可靠性
4.100A以下使用端子, 150A以上使用铜排接头
5.低泄露电流，缺相最大漏电流为15.13mA(P型除外)

1.Reducing the conducted emission from inverter to power network.
2.Improve the reliability of the whole system
3.Improve the reliability of the whole system.
4.less than 100A filters, using solid safety connector, more than 150A filters, using copper bar.
5.Low leakage current,Lack of a phase, The maximum leakage current is 15.13mA (except P type).

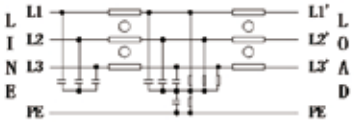
■ 技术参数 （Technical Data）

1.额定电压：1140/660 VAC
2.工作频率：50Hz
3.额定电流：20A~900A
3.高压试验：P-E 4950VDC/60sec P-P 4950VDC/60sec
4.温度范围：-25℃~100℃（25/100/21）
5.设计依据：IEC/EN 60939
6.典型滤波频率：150kHz~30MHz

1.Rated voltage： 1140/660 VAC
2.Rated frequency： 50Hz
3.Rated current： 20A~900A
3.High potential test voltage： P-E 4950VDC/60sec P-P 4950VDC/60sec
4.Temperature range： -25℃~100℃（25/100/21）
5.Design corresponding to： IEC/EN 60939
6.Typical work frequency： 150kHz~30MHz

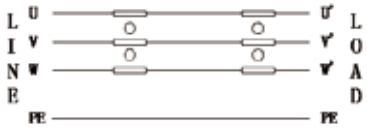
■ 输入滤波器典型电路图

(Typical electrical schematic of input filter)



■ 输出滤波器典型电路图

(Typical electrical schematic of output filter)



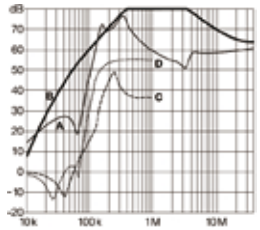
■ 典型应用 （Typical Applications ）

该系列滤波器主要应用于1140V变频器，以及其他1140V系统。P系列用于过证测试使用，不可以用于矿井下，否则可能会导致漏电保护器跳闸。

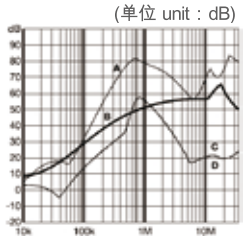
The series filter is mainly used in 1140V inverter, and other 1140V system. The P series is used to conducted emission test, can not be used in the mine, otherwise may cause the electric leakage protector to trip.

■ 输入滤波器插入损耗 (Input Filter Attenuation)

(单位 unit：dB)



25A~100A



200A~1000A

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

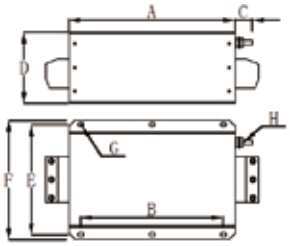
滤波器选型表 (Filter Selection Table)

过证用输入滤波器最后加P，如输入20A型号为RFI11B20N10P)
Conducted emission test input filter with the final plus P, such as the input 20A model for RFI11B20N10P

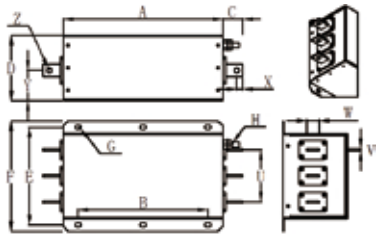
适配变频器参数 Adapter inverter parameter		滤波器型号 Filter type		额定电流 Rated current	端子代码 Connector code
功率 Drive power rating	额定电压 Rated voltage	输入滤波器 Input filter	输出滤波器 Output filter		
18.5kW	1140VAC	SKI11C20N10	SKO11C20N10	20A	-N10
37kW	1140VAC	SKI11C35N35	SKO11C35N35	35A	-N35
55kW	1140VAC	SKI11C60N35	SKO11C60N35	60A	-N35
75kW	1140VAC	SKI11C60N35	SKO11C60N35	60A	-N35
132kW	1140VAC	SKI11C100N35	SKO11C100N35	100A	-N35
150kW	1140VAC	SKI11C100N35	SKO11C100N35	100A	-N35
185kW	1140VAC	SKI11C150N99	SKO11C150N99	150A	
200kW	1140VAC	SKI11C150N99	SKO11C150N99	150A	
250kW	1140VAC	SKI11C200N99	SKO11C200N99	200A	
315kW	1140VAC	SKI11C250N99	SKO11C250N99	250A	
400kW	1140VAC	SKI11C300N99	SKO11C300N99	300A	
500kW	1140VAC	SKI11C400N99	SKO11C400N99	400A	
630kW	1140VAC	SKI11C500N99	SKO11C500N99	500A	
715kW	1140VAC	SKI11C550N99	SKO11C550N99	550A	
800kW	1140VAC	SKI11C650N99	SKO11C650N99	650A	
1000kW	1140VAC	SKI11C800N99	SKO11C800N99	800A	
1200kW	1140VAC	SKI11C900N99	SKO11C900N99	900A	

可以定制非标3.3kV，6kV，10kV滤波器，在实际应用中取得成功。
Can be customized non-standard 6kV, 3.3kV, 10kV filter, in the practical application of success.

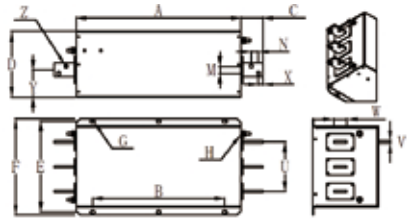
产品尺寸图 (Product Size)



25A~100A



20A~550A



550A~900A

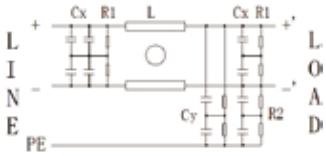
代号 Code / 电流 Current	A	B	C	D	E	F	G	H	M	N	U	V	W	X	Y	Z
20A	180	120	35	100	155	168	6X9	M8								
35A~100A	280	240	39	120	185	200	6X9	M8								
150A~250A	320	260	40	130	195	220	8X15	M8			104	4	25	12.5	60	10.5
300A~500A	420	340	45	170	248	270	11X18	M10			140	8	40	12.5	75	10.5
550A~900A	600	480	80	240	330	350	11X18	M10	26	26	180	8	50	17	100	12.5

(单位 unit：mm)

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	-N16	-N35	-N50	-N95
多股软线/mm² Flex wire	0.5~6	0.5~10	1~16	10~35	16~50	25~95
美标线规 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

典型电路图
typical electrical schematic



1200V太阳能逆变直流滤波器DC EMC/EMI Filter for PVInverters

■ 产品概述 （Product Introduction ）

1.减小对太阳能电池板板的传导干扰，有助于整个光伏系统符合国际电磁兼容规定
2.优异的共模、差模噪声抑制能力
3.减少太阳能、风能逆变发电系统发生电磁干扰故障概率
4.减小高频电流，有助于防止太阳能板过早老化
5.100A以下滤波器两端接线使用端子，150A以上滤波器两端接线使用铜排

1.Reduces conducted emissions towards the solar panel, Helps to meet international EMC regulations for the entire PV system
2.Excellent capability to reject CM and DM noise
3.Reduces the probability of EMI radiation off the converter system.
4.Helps to prevent pre-mature panel aging, because of HF leakage currents
5.less than 100A filters, using solid safety connector, more than 150A filters, using copper bar.

■ 技术参数 （Technical Data）

最大持续使用电压：1200VDC
额定频率：DC
额定电流：25A~2300A@55℃
高压试验：P-E 3600VDC/5sec P-P3000VDC/5sec
温度范围：-25℃~100℃（25/100/21）
设计依据：IEC/EN 60939
典型滤波频率：150kHz~30MHz
防护等级：IP20(25A~100A) IP00(150A~2300A)

Maximum continuous operating voltage： 1200VDC
Rated frequency： DC
Rated current： 25A~2300A@55℃
High potential test voltage： P-E 3600VDC/5sec P-P3000VDC/5sec
Temperature range： -25℃~100℃（25/100/21）
Design corresponding to： IEC/EN 60939
Typical work frequency： 150kHz~30MHz
Protection class： IP20(25A~100A) IP00(150A~2300A)

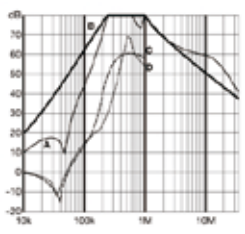
■ 典型应用 （Typical Applications ）

该系列滤波器主要应用于光伏、风力发电逆变。同时也有可应用于其他直流场合，如UPS，直流电机驱动器，铁路，以及直流快速充电器。

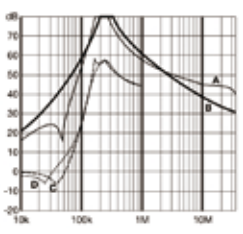
This series filters are primarily designed for PV and wind power inverters. However, they can potentially also be used in other DC applications within published specifications, like UPS, DC motor drives, or DC quick chargers.

■ 输入滤波器插入损耗 (Input Filter Attenuation)

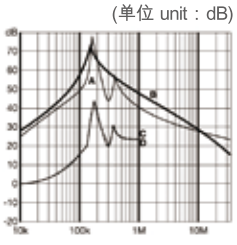
(单位 unit：dB)



25A~80A



100A~150A



100A~150A

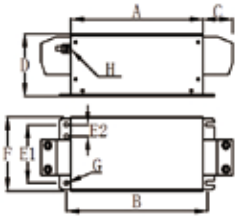
A:50N/50Ω sym，B:50N/50Ω asym，C：0.1Ω/100Ω sym D:100N/0.1Ω sym

滤波器选型表 (Filter Selection Table)

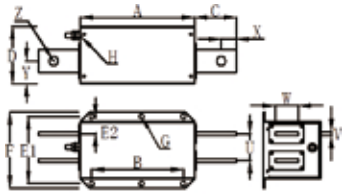
滤波器型号 Filter type	额定电流 Rated current @40°C [A]	功率 Drive power rating [kW]	能量损耗 Power loss @25°C/50Hz [W]	端子类型 Connector type
SKD12B25DN10	25	10	8	端子solid safety connector
SKD12B50DN35	50	20	17	端子solid safety connector
SKD12B80DN35	80	30	18	端子solid safety connector
SKD12B100DN35	100	40	22	端子solid safety connector
SKD12B150DN99	150	60	31	铜排copper bar
SKD12B200DN99	200	80	36	铜排copper bar
SKD12B300DN99	300	120	14	铜排copper bar
SKD12B400DN99	400	150	16	铜排copper bar
SKD12B600DN99	600	250	29	铜排copper bar
SKD12B800DN99	800	350	26	铜排copper bar
SKD12B1000DN99	1000	400	40	铜排copper bar
SKD12B1500DN99	1500	500	45	铜排copper bar
SKD12B2300DN99	2300	800/1000	84	铜排copper bar

基于典型额定900VDC输入直流电流的三相光伏逆变器的场合。大功率的中央逆变器的滤波器，可根据要求定制。
Based on rated DC current of typical 3-phase PV inverters with 900VDC input. Filters with higher current ratings for large central inverters up to the MW range are available upon request

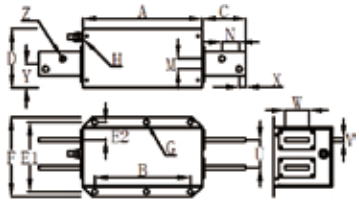
产品尺寸图 (Product Size)



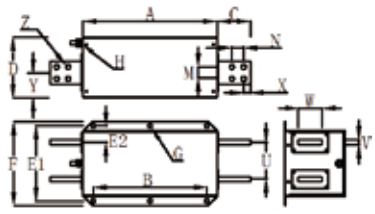
25A~200A



300A~1000A



1500A



2300A

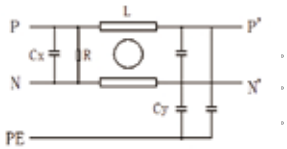
代号 Code / 电流 Current	A	B	C	D	E		F	G	H	M	N	U	V	W	X	Y	Z
					E1	E2											
25A	160	178	35	65	60	15	85	5.5	M5								
50A~80A	170	188	38.5	80	75	15	95	5.5	M6								
100A	190	208	38.5	95	100	20	125	5.5	M8								
150A~200A	220	238	40	115	110	20	140	5.5	M8								
300A	300	240	58	110	165	42.5	190	12.5	M10			70	4	25	15	58	11
400A	300	240	58	110	165	42.5	190	12.5	M10			70	6	25	15	58	11
600A	300	240	58	110	165	42.5	190	12.5	M10			70	8	25	15	58	11
800A~1000A	300	240	65	140	175	47.5	200	12.5	M10			70	8	40	20	60	14
1500A	300	240	110	150	175	44.5	200	12.5	M12	26	43	70	10	60	17	60	14
2300A	400	340	100	180	225	49.5	250	12.5	M12	35	35	110	15	70	20	75	14

(单位 unit：mm)

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	-N16	-N35	-N50	-N95
多股软线/mm² Flex wire	0.5~6	0.5~10	1~16	10~35	16~50	25~95
美标线规 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

典型电路图
typical electrical schematic



单相滤波器 1-phase filter

■ 产品概述 (Product Introduction)

1.具有高衰减性能的通用滤波器
2.具有良好的共模差模滤波性能
3.广泛应用于开关电源，UPS，变频逆变等场合
4.超过50A一定要确保接地良好，否则有电击危险
5.医用型的滤波器后缀为A

1.General purpose EMI filter with high attenuation performance
2.High common-modeand differential-mode attenuation
3.Widely used in switching power , UPS, inverter, etc.
4.Exceed 50A must ensure that the ground is good, otherwise there is a risk of electric shock
5.Medical type filter suffix for A

■ 技术参数 (Technical Data)

额定电压：250 VAC
工作频率：0~60Hz
额定电流：3A~200A
高压试验：P/N-E 2000VAC/2sec θP-N 1100VDC/2sec
温度范围：-25℃~85℃ (25/85/21)
设计依据：IEC/EN 60939
典型滤波频率：150kHz~30MHz

Rated voltage : 250 VAC
Operating frequency : 0~60Hz
Rated current : 3A~200A
High potential test voltage : ○P/N-E 2000VAC/2sec 0P-N 1100VDC/2sec
Temperature range : -25℃~85℃（25/85/21）
Design corresponding to : IEC/EN 60939
Typical work frequency : 150kHz~30MHz

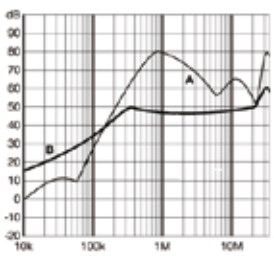
■ 典型应用 (Typical Applications)

1.电气和电子设备
2.消费品
3.家庭设备
4.电子数据处理设备
5.办公自动化和数据通信设备
6.电磁环境恶劣且需要高性能滤波滤波器

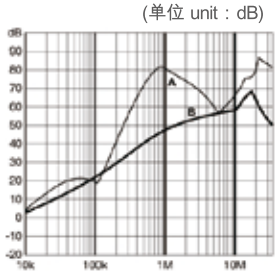
Electrical and electronic equipment
Consumer goods
Household equipment
Electronic data processing equipment
Office automation and datacom equipment
Various noisy applications requiring high filter performance

■ 输入滤波器插入损耗 (Input Filter Attenuation)

(单位 unit：dB)



3A~20A



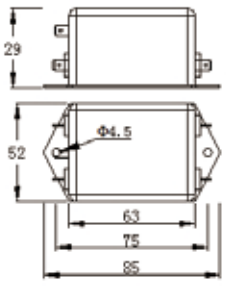
30A~200A

A:50N/50Ω sym，B:50N/50Ω asym

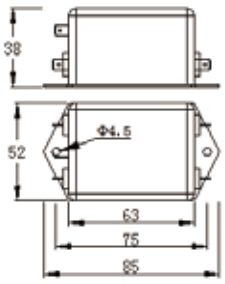
滤波器选型表 (Filter Selection Table)

滤波器型号 Filter type		额定电流 Rated current @40°C [A]	漏电流 Leakage current @230VAC/50Hz [mA]		能量损耗 Power loss @25°C/50Hz [W]	端子类型 Connector type
通用型 Universal filter	医用型 Medical filter		通用型 Universal filter	医用型 Medical filter		
RFD2B3N01	RFD2B3N01A	3	0.87	0.074	2.3	
RFD2B6N01	RFD2B6N01A	6	0.87	0.074	3.2	
RFD2B10N01	RFD2B10N01A	10	0.87	0.074	3.8	
RFD2B16N01	RFD2B16N01A	16	0.87	0.074	4.7	
RFD2B20N01	RFD2B20N01A	20	0.87	0.074	5.6	
RFD2B30N05	RFD2B30N05A	30	0.87	0.074	8.5	
RFD2B50N05	RFD2B50N05A	50	1.75	0.074	13.3	
RFD2B100N05	RFD2B100N05A	100	1.75	0.074	30.2	
RFD2B200N05	RFD2B200N05A	200	3.5	0.074	46.9	

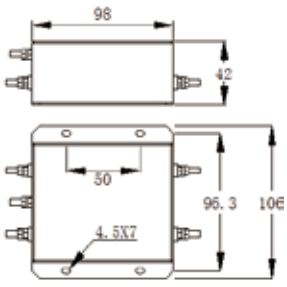
产品尺寸图 (Product Size)



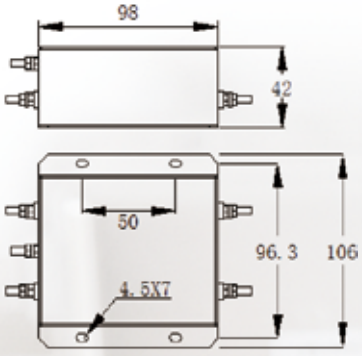
3A~10A



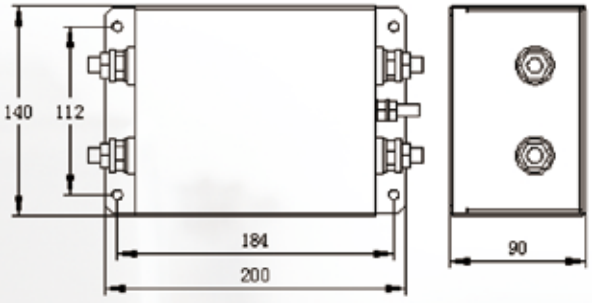
16A~20A



30A~50A



100A



200A

(单位 unit：mm)