

滤波器应用范围 FILTER APPLICATION SCOPE

交流 单相通用 滤波器 AC single phase general series filters	交流 单相高性能 滤波器 AC single phase high performance series filters	PCB板 专用滤波器 PCB series filters	IEC 插座滤波器 IEC socket series filters	交流 三相四线 滤波器 AC 3phases 4 lines series filters	交流 三相三线 滤波器 AC 3phases 3 lines series filters	产品类型 Type
●	●	●	●			信息通讯设备 Communication equipments
●	●	●	●	●		UPS、开关电源 UPS and switch power supply
●	●	●				汽车电子 Auto electron
	●	●				灯光照明 Lighting
		●				医疗设备 Medical equipments
	●					变频设备 Inverter equipments
	●			●	●	伺服系统、 逆变设备 Servo system and Inverter equipments
●	●	●	●	●	●	自动化系统、 Automation system
●	●	●	●			计算机类办公设备 Computer series office equipments
●	●	●		●	●	电梯类提升设备 Elevator series upgrade equipments
	●	●		●	●	精密机械设备 Precision machinery
●	●	●	●	●	●	建筑自动化 Building automation
		●	●			家用电器 House hold appliance
●	●	●	●			精密测量仪器 Precision measurement equipments

滤波器基础知识 FILTER APPLICATION SCOPE

直流电源 滤波器 DC series filters	脉冲群抑制 滤波器 Pulse group suppression series filters	医疗专用 滤波器 Medical appliance series filters	交流 高压滤波器 AC high voltage filters	变频器 输入 专用滤波器 Inverter input series filters	变频器 输出 专用滤波器 Inverter output series filters	产品类型 Type
●	●					信息通讯设备 Communication equipments
●	●		●			UPS、开关电源 UPS and switch power supply
●						汽车电子 Auto electron
●	●					灯光照明 Lighting
●		●				医疗设备 Medical equipments
			●	●	●	变频设备 Inverter equipments
●			●	●	●	伺服系统、 逆变设备 Servo system and Inverter equipments
●			●	●	●	自动化系统、 Automation system
●	●					计算机类办公设备 Computer series office equipments
			●	●	●	电梯类提升设备 Elevator series upgrade equipments
●			●	●	●	精密机械设备 Precision machinery
●						建筑自动化 Building automation
●	●			●		家用电器 House hold appliance
●	●					精密测量仪器 Precision measurement equipments

滤波器应用范围 FILTER APPLICATION SCOPE

额定电压

额定电压是指滤波器在额定频率下的最大有效值(Rms)工作电压。

额定电流

额定电流(IN)是指滤波器在环境温度为40度时,在额定的电压和频率下允许通过的最大电流。当环境温度发生变化时,应按下式对工作电流作调整

$$I = I_N / (85 - \theta) / 45$$

试验电压

按照IEC的建议,高压测试遵循为两种规范,一种是鉴定测试,一种是产品测试。鉴定测试是在产品开发以及质量鉴定时所做的测试,要求在所有的接线端子之间施加指定值的测试电压,维持时间至少60秒,并且,按照IEC的推荐,可以拆除滤波器内部的泄放电阻。产品测试是在生产现场的产品例行检验,维持时间2~5秒。并且在重复多次做高压试验时,测试电压只需要指定值的80%。同时,按照标准规定,试验电压应从零开始,以不超过150V/S的速度缓慢升压到实验电压。

泄漏电流

做为电器设备一个涉及到人身安全最重要的性能指标,国际国内标准都对其有详细而严格的规定。滤波器的泄漏电流,是指在额定的电压和频率下,相线和中线与外壳之间流过的电流,是由于连接在线与外壳(地)之间的电容引起的。通常因根据设备对泄漏电流的要求进行选择。

泄漏电流的测试方法如图1、图2所示:

插入损耗

一般地,当源和负载阻抗完全匹配时才能有最大的功率传递。而干扰抑制滤波器的目的是在噪声源和受干扰设备之间插入一个最大化的阻抗失配L-C网络,导致沿线路传导的噪声信号能量被减小到最低的程度。因此,衡量一个滤波器(Filter)性能最重要的指标就是插入损耗(Insertion Loss)。按照CISPR17的定义,插入损耗是指在滤波器没有接入线路前由信号源传递给负载的功率P1和接入线路后由信号源传递给负载的功率P2之比,通常用对数来表示:

$$IL = 10 \log_{10}(P1/P2) (dB)$$

当源阻抗和负载阻抗等于50欧姆时,可以用电压来表示如下:

$$IL = 20 \log_{10}(V1/V2) (dB)$$

测试电路如图3、图4所示:

在实际的使用场合下,干扰源阻抗和受干扰设备阻抗都是很复杂和不可知的,并且随不同的工作状态而变化。因此会导致同一个滤波器在不同的场合下,效果差别很大。因此在选用滤波器时,不仅仅要考虑滤波器的插入损耗指标,同时还要考虑源和负载的阻抗,尽量达到最大化的阻抗匹配。下表给出可能的滤波器等效电路,与不同的线路、干扰源、受干扰设备阻抗之间的关系,作为滤波器选择时的参考。

连接方式说明

图形 Figure								
中文	插针	软线	焊片	IEC插座	带保险丝 IEC插座	带保险丝 开关IEC插座	螺栓	铜排
English	Pin	Wire	Solder lug	IEC Socket	IEC Socket with fuse	IEC Socket with fuse and switch	Stud	Copper bar

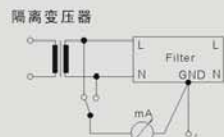


图1. 单相滤波器泄漏电流测试原理图

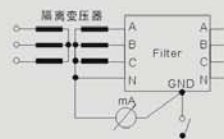


图2. 三相滤波器泄漏电流测试原理图



图3. 未接入滤波器前参考电压测试原理图

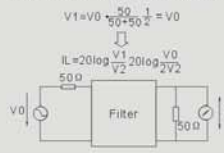


图4. 接入滤波器后插入损耗测试原理图

线路阻抗	等效电路结构	干扰源受干扰设备阻抗
Low		High
Low		Low
High		High
High		Low

安装指南

滤波器的安装质量对衰减特性影响很大,只有把滤波器正确安装到设备和设施上,才能获得预期的衰减特性。滤波器安装应遵循以下几个要点:

1. 滤波器对于干扰信号的抑制,很多时候是把干扰信号通过滤波器内部的接地电容(Y电容)对地短路而起作用,所以滤波器的接地导线上有很大的短路电流(相对于干扰信号而言)。因此滤波器安装时一定要有良好的接地。图1是一个滤波器接地质量对电路工作产生的影响。如图所示, LB是接地导线的电感, RB是接地导线的电阻, 以及公共地线之间的接触电阻, 当 $(RB + j\omega LB) > (RL + \frac{1}{j\omega C})$ 时, 干扰电流大部分将流向敏感设备。因此,一般的滤波器都是金属外壳,如果可能,应把滤波器外壳直接和机箱的金属部分良好接触,并且整个机箱或是系统的接地电阻应尽可能低。
2. 敏感设备的电源滤波器应安装在设备或屏蔽体的电源入口处,并且把电源引入线即滤波器的输入端引线放置在机箱外部,如果不能实现,也要保证输入端引线尽量短,并且把输入端引线加以屏蔽。最简单的方法,就是选用插座式的滤波器。
3. UPS、变频器等大功率的用电设备,应把滤波器安装在尽量接近设备的输入或输出端口,如果可能应装入设备内部,并且也要注意,电源引入线(输入滤波器的输入端引线)和电源输出线(输出滤波器的输出端引线)不能在设备箱体中裸露。同时,应保证变频器至电机的引线尽量短,并且不能和变频器的电源线以及其它控制、通讯线交叉或并行。
4. 安装在设备内部的滤波器输入引线和输出引线不能交叉,应尽量分开,否则引线间的耦合会降低滤波特性。电源滤波器的输入输出引线不能和信号线并行。
5. 同一设备或屏蔽体(如电磁屏蔽室)上有多个引入引出线时,每根导线都必须进行滤波,并且滤波特性要保持一致。

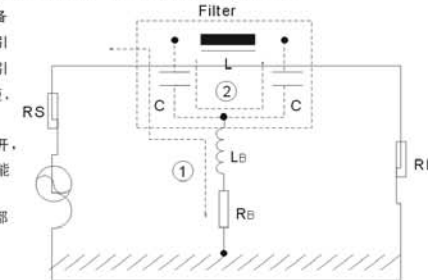
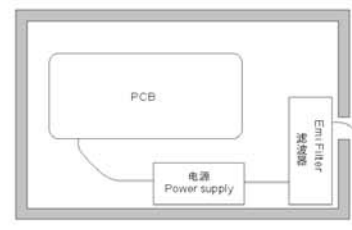
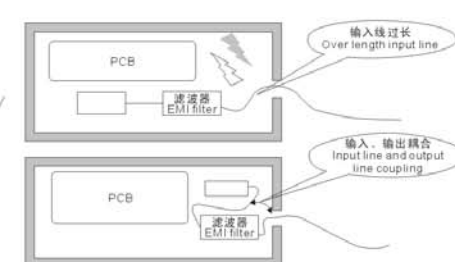
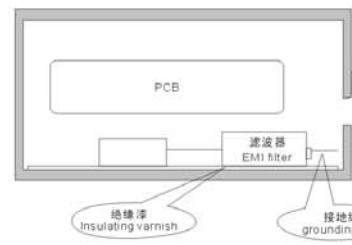


图1. 滤波器接地电阻引起的性能下降

正确安装



电源线滤波器的错误安装



滤波器通过细线接地,高频效果很差!

单相通用滤波器 SINGLE PHASE FILTERS

- 常规通用单相滤波器，价格优惠，安装简单；
General single phase filter, low price, easy to install
- 高频抑制性能优异，补充基波滤波电路高频性能不足；
Excellent interference-suppression for high frequency
- 低泄露电流，高品质元件，性能有保证。
Low leakage current and high quality components ensure the safety and reliability of filter.
- 适用于开关电源、UPS、自动售货机、绣花机、示波器、工业计算机、控制器等多种设备。
Suitable for the switching power supply, USP, automat, embroidery machine, oscillograph, industrial computer controller etc.



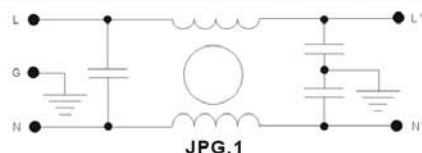
Specification

规格表

滤波器型号 PART No	端接方式 Connection IN OUT	额定电流 Rated current	额定电压 Rated voltage	工作频率 Line frequency	耐压等级 Hipot test voltage	工作温度 Temperature Range	漏电流 leakage current 250AC 50HZ
DR-1A2DW		1A	120/250VAC	50/60Hz	线-线(L-L) 1500VDC/1Min 线-地(L-G) 2000VAC/1Min	25/085/21	0.5mA
DR-3A2DW		3A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-6A2DW		6A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-10A2DW		10A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-1A2D26W		1A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-3A2D26W		3A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-6A2D26W		6A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-10A2D26W		10A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-1A2D27L		1A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-3A2D27L		3A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-6A2D27L		6A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-10A2D27L		10A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-1A2D26L		1A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-3A2D26L		3A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-6A2D26L		6A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-10A2D26L		10A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-1A2D2L		1A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-3A2D2L		3A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-6A2D2L		6A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-10A2D2L		10A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-1A2D2W		1A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-3A2D2W		3A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-6A2D2W		6A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-10A2D2W		10A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-1A2DL		1A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-3A2DL		3A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-6A2DL		6A	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-10A2DL		10A	120/250VAC	50/60Hz		25/085/21	0.5mA

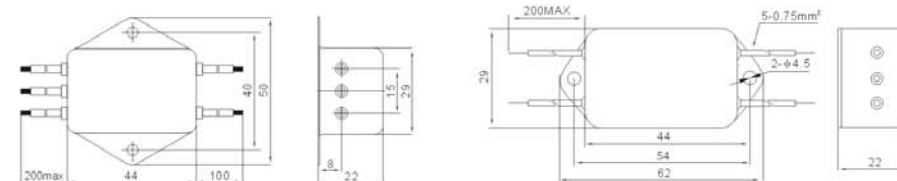
Schematic

电气原理图



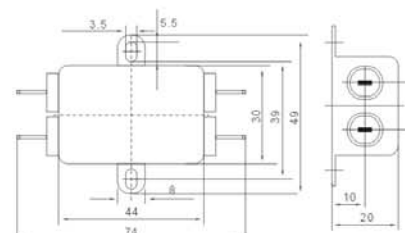
Mechanical Specs

安装尺寸图 单位(Unit):mm

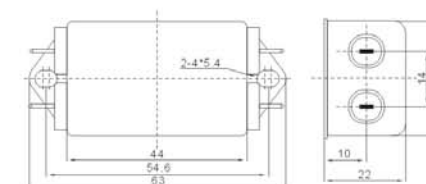


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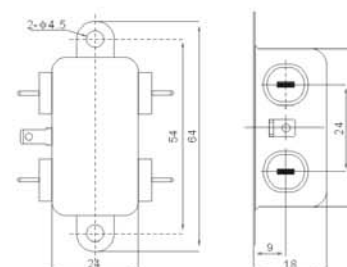
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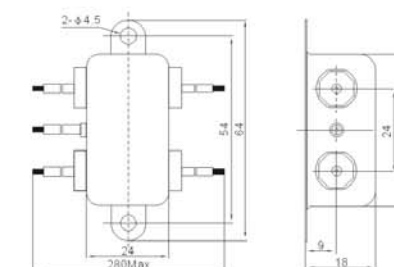
DR - 1/3/6/10 A2D27L



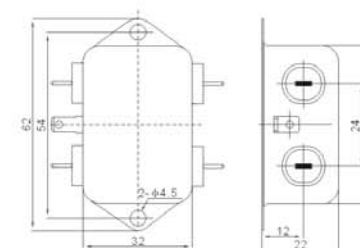
DR - 1/3/6/10 A2D26L



DR - 1/3/6/10 A2D2L



DR - 1/3/6/10 A2D2W



DR - 1/3/6/10 A2DL

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Excellent interference-suppression for high frequency.
- 低泄露电流，高品质元件，性能有保证。
Low leakage current and high quality components ensure the safety and reliability of filter.
- 适用于开关电源、UPS、自动售货机、绣花机、示波器、工业计算机、控制器等多种设备。
Suitable for the switching power supply, USP, automat, embroidery machine, oscillograph, industrial computer controller etc.



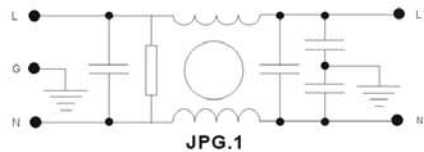
Specification

规格表

滤波器型号 PART No	连接方式 Connection IN OUT	额定电流 Rated current	额定电压 Rated voltage	工作频率 Line frequency	耐压等级 Hipot test voltage	工作温度 Temperature Range	最大漏电流 MAX leakage current
DR-6A4BL		6A	120/250VAC	50/60Hz	线-线(L-L) 1500VDC/1Min 线-地(L-G) 2000VAC/1Min	25/085/21	1.0mA
DR-10A4BL		10A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-20A4BL		20A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-6A4HL		6A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-10A4HL		10A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-20A4HL		20A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-6A4B23L		6A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-10A4B23L		10A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-20A4B23L		20A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-6A4B23B		6A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-10A4B23B		10A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-20A4B23B		20A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-6A4HB		6A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-10A4HB		10A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-20A4HB		20A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-30FA4HB		30A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-40A4CB		40A	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-50A4EB		50A	120/250VAC	50/60Hz		25/085/21	2.0mA
DR-60A4EB		60A	120/250VAC	50/60Hz		25/085/21	2.0mA
DR-80A4GB		80A	120/250VAC	50/60Hz		25/085/21	2.0mA
DR-100A4GB		100A	120/250VAC	50/60Hz		25/085/21	2.0mA
DR-150A4FB		150A	120/250VAC	50/60Hz		25/085/21	2.0mA
DR-200A4FB		200A	120/250VAC	50/60Hz		25/085/21	2.0mA

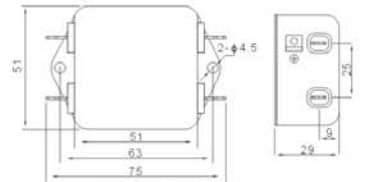
Schematic

电气原理图

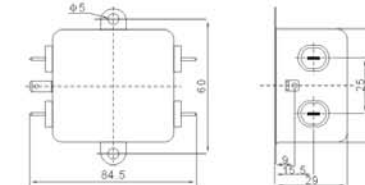


Mechanical Specs

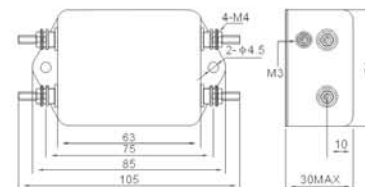
安装尺寸图 单位(Unit):mm



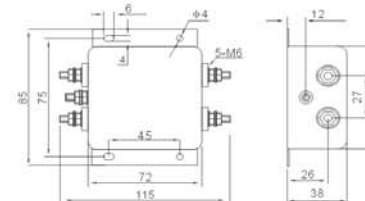
DR-6/10/20A4BL



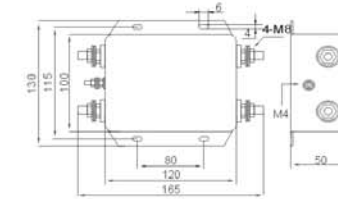
DR-6/10/20A4B23L



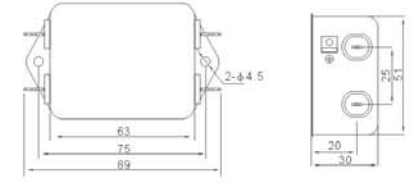
DR-6/10/20A4HB



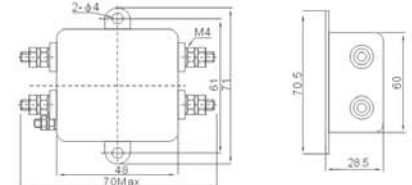
DR-40A4CB



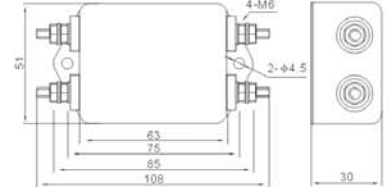
DR-80/100A4GB



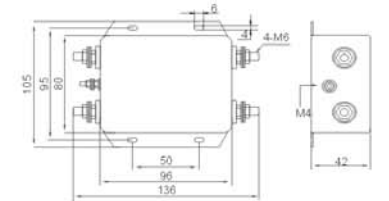
DR-6/10/20A4HL



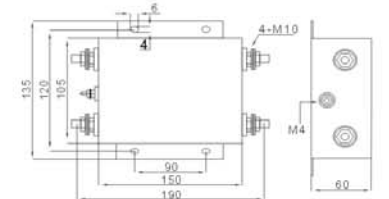
DR-6/10/20A4B23B



DR-30FA4HB



DR-50/60A4EB



DR-150/200A4FB

单相双级滤波器 SINGLE PHASE FILTERS

- 双级滤波电路，良好的共模和差模干扰抑制性能：
Two-stage filter, excellent interference-suppression for CM and DM.
- 优异的宽频带(150K-30MHz)干扰抑制能力：
Excellent wide frequency(150K-30MHz)interference-suppression.
- 用于输入阻抗为高阻/低阻的设备：
used to devices with high or low input resistance.
- 适用于开关电源、UPS、ATM、点钞机、绣花机、加油机、雕刻机、控制机、工业计算机、科学分析器等电力电子设备及变频设备控制器等多种设备。
Suitable for the switching power supply, USP, ATM, bill, counter, embroidery, machine, fuel, dispenser, engraving machine, controller, industrial computer, scientific analysis instrument as well as the other electron equipments and inverter equipments.



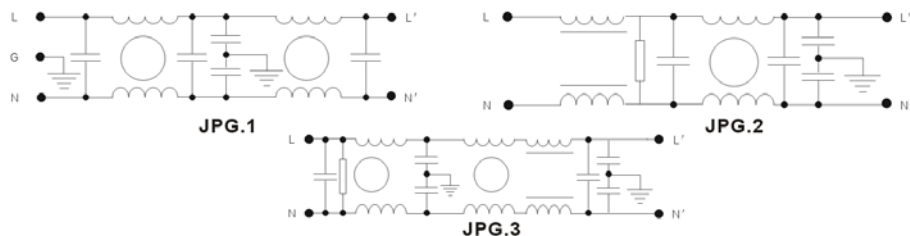
Specification

规格表

滤波器型号 PART No	端接方式 Connection IN OUT	额定电流 Rated current	原理图 Schematic	额定电压 Rated voltage	工作频率 Line frequency	耐压等级 Hipot test voltage	工作温度 Temperature Range	最大漏电流 MAX leakage current
DR-1B22DW		1A	JPG.1	120/250VAC	50/60Hz	线-线(L-L) 1500VDC/1Min 线-地(L-G) 2000VAC/1Min	25/085/21	0.5mA
DR-3B22DW		3A	JPG.1	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-3B22AW		3A	JPG.1	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-6B22AW		6A	JPG.1	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-6B22HL		6A	JPG.1	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-10B22HL		10A	JPG.1	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-6B22HB		6A	JPG.1	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-10B22HB		10A	JPG.1	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-20B22JB		20A	JPG.1	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-20B22EB		20A	JPG.1	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-50B22FB		50A	JPG.1	120/250VAC	50/60Hz		25/085/21	0.5mA
DR-100B22KB		100A	JPG.1	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-1B11DW		1A	JPG.2	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-3B11BL		3A	JPG.2	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-6B11HL		6A	JPG.2	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-10B11HL		10A	JPG.2	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-20B11EB		20A	JPG.2	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-3B30BL		3A	JPG.3	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-6B30CL		6A	JPG.3	120/250VAC	50/60Hz		25/085/21	1.0mA
DR-10B30EB		10A	JPG.3	120/250VAC	50/60Hz		25/085/21	2.0mA
DR-20B30EB		20A	JPG.3	120/250VAC	50/60Hz		25/085/21	2.0mA
DR-30B30GB		30A	JPG.3	120/250VAC	50/60Hz		25/085/21	2.0mA
DR-40B30FB		40A	JPG.3	120/250VAC	50/60Hz		25/085/21	2.0mA
DR-50B30KB		50A	JPG.3	120/250VAC	50/60Hz		25/085/21	2.0mA
DR-100B30NB		100A	JPG.3	120/250VAC	50/60Hz		25/085/21	2.0mA

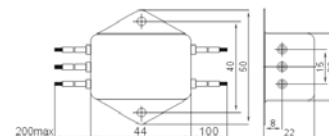
Schematic

电气原理图

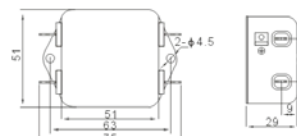


Mechanical Specs

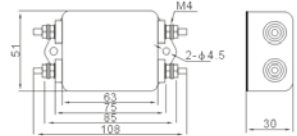
安装尺寸图 单位(Unit):mm



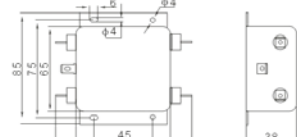
DR-1/3 B22DW DR-1B11DW



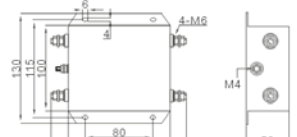
DR-3B11BL DR-3B30BL



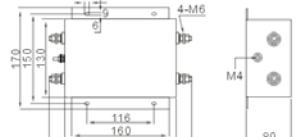
DR-6/10B22HB



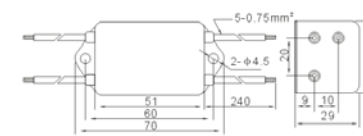
DR-6B30CL



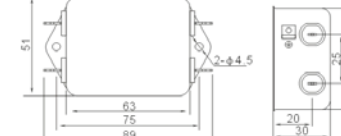
DR-30B30GB



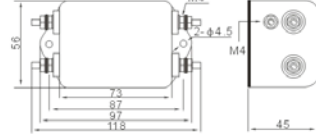
DR-100B22KB DR-50B30KB



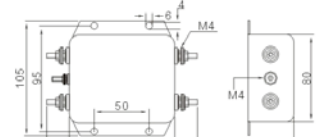
DR-3/6B22AW



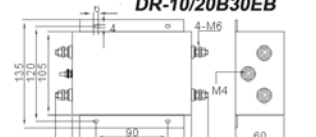
DR-6/10B22HL DR-6/10B11HL



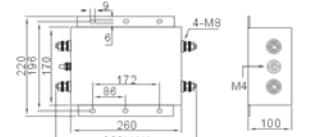
DR-20B22JB



DR-20B22EB DR-20B11EB



DR-10/20B30EB



DR-50B22FB DR-40B30FB

DR-100B30NB

IEC插座式滤波器 IEC SOCKET SERIES FILTERS

- 低泄漏电流，有效滤除线与线、线与地之间的噪声干扰。
Low leakage current, and effectively suppress the noise interference on line to line and line to ground.
- 专为IEC标准连接器设计。
Specially designed for IEC standard connector.
- 外形小巧，结构紧凑，便于安装，高性价比。
Small size, compact structure, easy to install and high performance/price ratio.
- 适用于交换机、卫星电视系统以及液晶显示器、液晶电视等家电产品。
Suitable for exchange machine, satellite TV system, LCD, LCD TV and other household appliances.



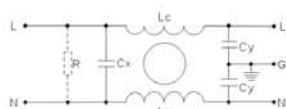
Specification

规格表

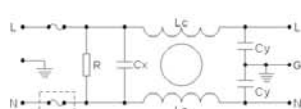
滤波器型号 PART No	端接方式 Connection IN OUT	额定电流 Rated current	原理图 Schematic	额定电压 Rated voltage	工作频率 Line frequency	耐压等级 Hipot test voltage	工作温度 Temperature Range	最大漏电流 MAX leakage current
DR-3A21L		3A	JPG.1	250VAC	50/60Hz	线-线(L-L) 1500VDC/1Min 线-地(L-G) 2000VAC/1Min	25/085/21	0.5mA
DR-6A21L		6A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-10A21L		10A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-3A21W		3A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-6A21W		6A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-10A21W		10A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-3A11L		3A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-6A11L		6A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-10A11L		10A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-3A12L		3A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-6A12L		6A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-10A12L		10A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-3A122L		3A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-6A122L		6A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-10A122L		10A	JPG.1	250VAC	50/60Hz		25/085/21	0.5mA
DR-3A2F1L		3A	JPG.2	250VAC	50/60Hz		25/085/21	0.5mA
DR-6A2F1L		6A	JPG.2	250VAC	50/60Hz		25/085/21	0.5mA
DR-10A2F1L		10A	JPG.2	250VAC	50/60Hz		25/085/21	0.5mA
DR-3A2F13L		3A	JPG.3	250VAC	50/60Hz		25/085/21	0.5mA
DR-6A2F13L		6A	JPG.3	250VAC	50/60Hz		25/085/21	0.5mA
DR-10A2F13L		10A	JPG.3	250VAC	50/60Hz		25/085/21	0.5mA
DR-3A2F14L		3A	JPG.3	250VAC	50/60Hz		25/085/21	0.5mA
DR-6A2F14L		6A	JPG.3	250VAC	50/60Hz		25/085/21	0.5mA
DR-10A2F14L		10A	JPG.3	250VAC	50/60Hz		25/085/21	0.5mA

Schematic

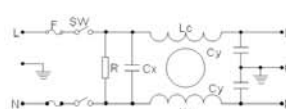
电气原理图



JPG.1



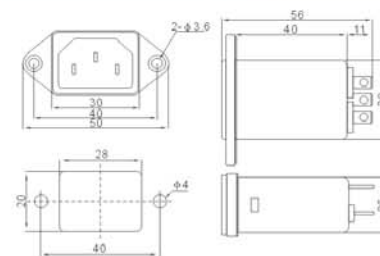
JPG.2



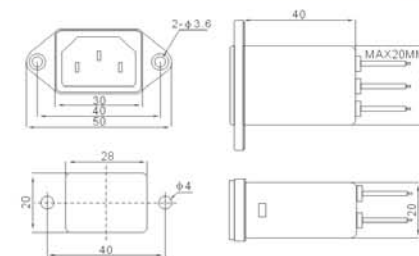
JPG.3

Mechanical Specs

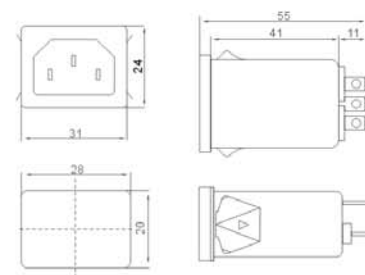
安装尺寸图 单位(Unit):mm



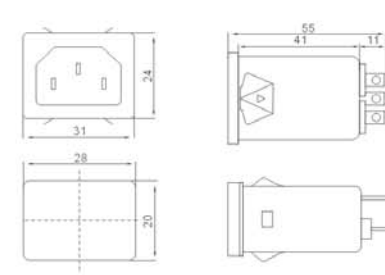
DR-3/6/10A21L



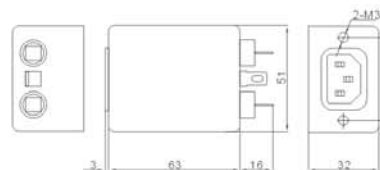
DR-3/6/10A21W



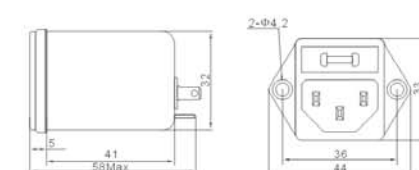
DR-3/6/10A11L



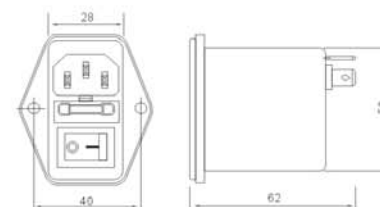
DR-3/6/10A12L



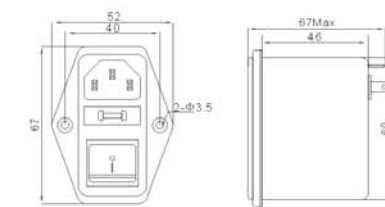
DR-3/6/10A122L



DR-3/6/10A2F1L



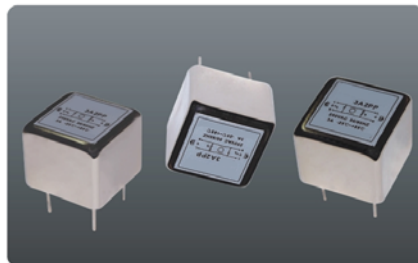
DR-3/6/10A2F13L



DR-3/6/10A2F14L

PCB专用交流滤波器 PCB SERIES FILTERS

- 良好的共模与差模抑制性能:
Excellent interference-suppression for CM and DM.
- 体积小, 重量轻, PCB安装:
Small size, light weight, PCB mounting, compact unit.
- 采用高品质元件, 确保性能稳定:
High quality components ensure the safety of EMI filters.
- 适用于交换机、报警器、控制器、LCD、卫星电视系统等超小型设备。
Suitable for exchange machine, alarm, controller, LCD, satellite TV system and other microminiature equipments.



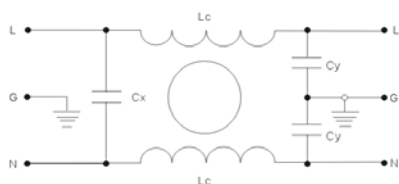
Specification

规格表

滤波器型号 PART No	端接方式 Connection IN OUT	额定电流 Rated current	额定电压 Rated voltage	工作频率 Line frequency	耐压等级 Hipot test voltage	工作温度 Temperature Range	最大漏电流 MAX leakage current
DR-1A2PP	I I	1A	120/250VAC	50/60Hz	线-线(L-L)	25/085/21	0.5mA
DR-3A2PP	I I	3A	120/250VAC	50/60Hz	1500VDC/1Min	25/085/21	0.5mA
DR-6A2PP	I I	6A	120/250VAC	50/60Hz	线-地(L-G)	25/085/21	0.5mA
DR-8A2PP	I I	8A	120/250VAC	50/60Hz	2000VAC/1Min	25/085/21	0.5mA

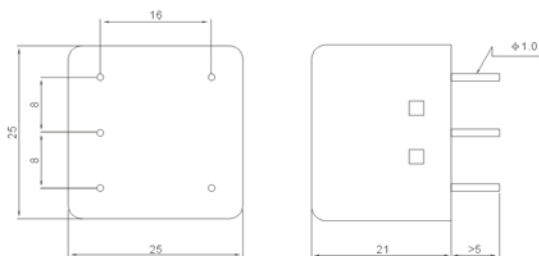
Schematic

电气原理图



Mechanical Specs

安装尺寸图 单位(Unit):mm



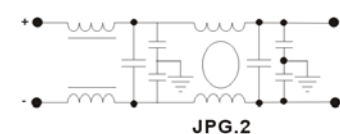
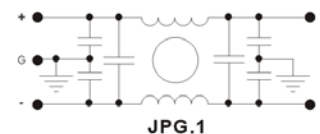
直流电源滤波器 DC SERIES FILTERS

- 专为抑制直流电源线上的噪声设计。
Specially designed for suppressing the noise along DC power line.
- 体积小, 滤波效果好
Compact volume, high performance of suppressing interference
- 适用于开关电源、程控交换机等各类直流电子设备。
Suitable for all kinds of DC electronic equipments, such as the switching power supply, PBX and so on.
- 额定电流0.5A-200A
Rated current: 0.5A-200A.



电气原理图

Schematic



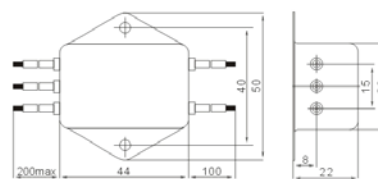
Specification

规格表

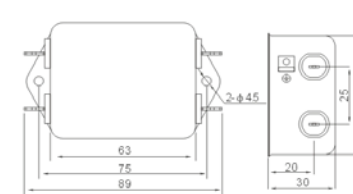
滤波器型号 PART No.	端接方式 Connection IN OUT	额定电流 Rated current	电路原理图 Electrical schematics	额定电压 Rated voltage	尺寸图 Mechanical Specs	耐压等级 Hipot test voltage	最大漏电流 MAX leakage current
DR-D3A5DW	I I	3A	JPG.1	100VDC	JPG.1	JPG.1	---
DR-D6A5DW	I I	6A	JPG.1	100VDC	JPG.1	JPG.1	---
DR-D6A5HL	I I	6A	JPG.1	100VDC	JPG.1	JPG.2	---
DR-D10A5HL	I I	10A	JPG.1	100VDC	JPG.1	JPG.2	---
DR-D20A5HL	I I	20A	JPG.1	100VDC	JPG.1	JPG.2	---
DR-D2B12DW	I I	2A	JPG.2	100VDC	JPG.2	JPG.2	---
DR-D3B12DW	I I	3A	JPG.2	100VDC	JPG.2	JPG.2	---
DR-D6B12HL	I I	6A	JPG.2	100VDC	JPG.2	JPG.2	---
DR-D10B12HL	I I	10A	JPG.2	100VDC	JPG.2	JPG.2	---

Mechanical Specs

安装尺寸图 单位(Unit):mm



JPG. 1



JPG. 2

三相三线电源滤波器THREE PHASE THREE LINE FILTERS

■ 较低的泄漏电流，对差模干扰和共模干扰具有优异的抑制特性。
Low leakage current, good performance of suppressing common mode and differential mode interference.

■ 广泛适用于△方式连接的各种电力设备，如打印设备、包装设备、纺织设备、工业空调、UPS、X-Ray、CT等。
Widely used in many kinds of electronic equipments with connection way "△", such as printing device, packing device, weaving machine, industrial air condition, UPS, X-Ray, CT etc.

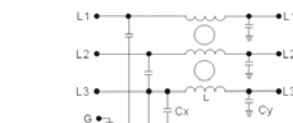
■ 额定电流1A-800A
Rated current: 1A-800A



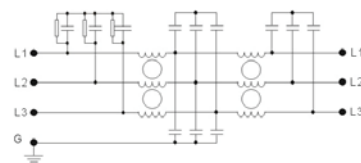
Specification

滤波器型号 PART No	端接方式 Connection IN OUT		额定电流 Rated current	原理图 Schematic	额定电压 Rated voltage	工作频率 Line frequency	耐压等级 Hipot test voltage	工作温度 Temperature Range	最大漏电流 MAX leakage current
DR-6C11HL			6A	JPG.1	440VAC	50/60Hz	1500VDC/1Min 线-地(L-G) 2250VDC/1Min	25/085/21	1.5mA
DR-10C11HL			10A	JPG.1	440VAC	50/60Hz		25/085/21	1.5mA
DR-6C11HW			6A	JPG.1	440VAC	50/60Hz		25/085/21	1.5mA
DR-10C11HW			10A	JPG.1	440VAC	50/60Hz		25/085/21	1.5mA
DR-6C12CL			6A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-10C12CL			10A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-20C12CL			20A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-6C12CB			6A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-10C12CB			10A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-20C12CB			20A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-20C12EB			20A	JPG.2	440VAC	50/60Hz		25/085/21	3.0mA
DR-30C12EB			30A	JPG.2	440VAC	50/60Hz		25/085/21	3.0mA
DR-40C12GB			40A	JPG.2	440VAC	50/60Hz		25/085/21	3.0mA
DR-50C12GB			50A	JPG.2	440VAC	50/60Hz		25/085/21	3.0mA
DR-60C12GB			60A	JPG.2	440VAC	50/60Hz		25/085/21	3.0mA
DR-100C12KB			100A	JPG.2	440VAC	50/60Hz		25/085/21	6.0mA
DR-150C12KB			150A	JPG.2	440VAC	50/60Hz		25/085/21	6.0mA
DR-20C20GB			20A	JPG.2	440VAC	50/60Hz		25/085/21	3.0mA
DR-30C20GB			30A	JPG.2	440VAC	50/60Hz		25/085/21	3.0mA
DR-40C20FB			40A	JPG.2	440VAC	50/60Hz		25/085/21	6.0mA
DR-50C20FB			50A	JPG.2	440VAC	50/60Hz	25/085/21	6.0mA	
DR-80C20KB			80A	JPG.2	440VAC	50/60Hz	25/085/21	6.0mA	
DR-100C20KB			100A	JPG.2	440VAC	50/60Hz	25/085/21	6.0mA	
DR-20C30FB			20A	JPG.3	440VAC	50/60Hz	25/085/21	6.0mA	
DR-30C30FB			30A	JPG.3	440VAC	50/60Hz	25/085/21	6.0mA	
DR-50C30KB			50A	JPG.3	440VAC	50/60Hz	25/085/21	10mA	
DR-60C30KB			60A	JPG.3	440VAC	50/60Hz	25/085/21	10mA	
DR-100C30NB			100A	JPG.3	440VAC	50/60Hz	25/085/21	60mA	
DR-200C30NB			200A	JPG.3	440VAC	50/60Hz	25/085/21	60mA	

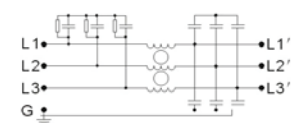
Schematic



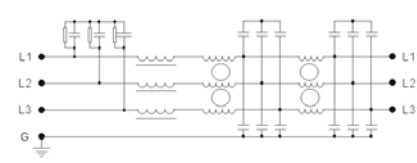
JPG.1



JPG.3



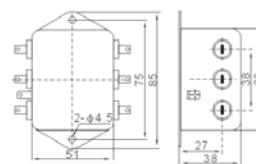
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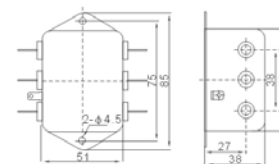
JPG.4

Mechanical Specs

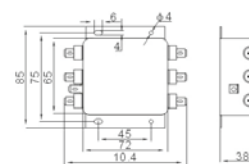
安装尺寸图 单位(Unit):mm



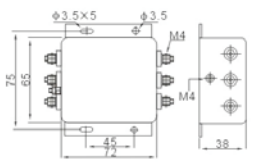
DR-6/10C11HL



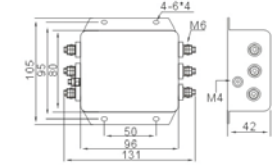
DR-6/10C11HW



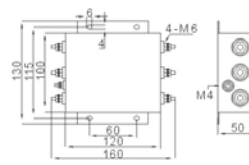
DR-6/10/20C12CL



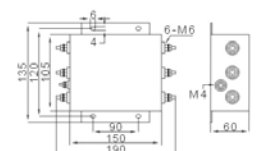
DR-6/10/20C12CB



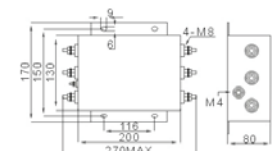
DR-20/30C12EB



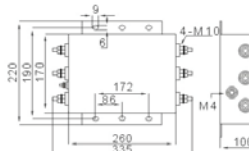
DR-40/50/60C12GB
DR-20/30C20GB



DR-40/50C20FB
DR-20/30C30FB



DR-100/150C12KB
DR-50/60C30KB
DR-80/100C20KB



DR-100/200C30NB

三相四线电源滤波器 THREE PHASE FOUR LINE FILTERS

■ 较低的泄漏电流，对差模干扰和共模干扰具有优异的抑制特性。
Low leakage current, good performance of suppressing common mode and differential mode interference suppression.

■ 广泛适用于机床设备、逆变器、变频设备、工业设备和医疗设备等
Widely used in machine tool device, inverter power supply, inverter equipment, industry equipment and medical appliance etc.

■ 额定电流 1A~800A
Rated current: 1A~800A.



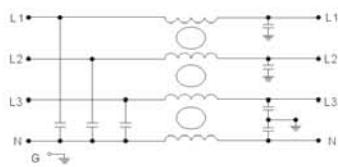
Specification

规格表

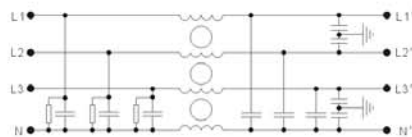
滤波器型号 PART No	连接方式 Connection IN OUT	额定电流 Rated current	原理图 Schematic	额定电压 Rated voltage	工作频率 Line frequency	耐压等级 Hipot test voltage	工作温度 Temperature Range	最大漏电流 MAX leakage current
DR-6D11HL		6A	JPG.1	440VAC	50/60Hz	线-线(L-L): 1450VDC/Min 线-中(L-N): 1450VDC/Min 线-地(L-G): 2700VDC/Min	25/085/21	2.0mA
DR-10D11HL		10A	JPG.1	440VAC	50/60Hz		25/085/21	2.0mA
DR-6D12CL		6A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-10D12CL		10A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-6D12CB		6A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-10D12CB		10A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-10D12EB		10A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-20D12EB		20A	JPG.2	440VAC	50/60Hz		25/085/21	2.0mA
DR-40D12GB		40A	JPG.2	440VAC	50/60Hz		25/085/21	8.0mA
DR-50D12GB		50A	JPG.2	440VAC	50/60Hz		25/085/21	8.0mA
DR-80D12KB		80A	JPG.2	440VAC	50/60Hz		25/085/21	20mA
DR-100D12KB		100A	JPG.2	440VAC	50/60Hz		25/085/21	20mA
DR-150D12NB		150A	JPG.2	440VAC	50/60Hz		25/085/21	20mA
DR-200D12NB		200A	JPG.2	440VAC	50/60Hz		25/085/21	20mA
DR-10D30FB		10A	JPG.3	440VAC	50/60Hz		25/085/21	8.0mA
DR-20D30FB		20A	JPG.3	440VAC	50/60Hz		25/085/21	8.0mA
DR-40D30KB		40A	JPG.3	440VAC	50/60Hz		25/085/21	10mA
DR-50D30KB		50A	JPG.3	440VAC	50/60Hz		25/085/21	10mA
DR-80D30NB		80A	JPG.3	440VAC	50/60Hz		25/085/21	10mA
DR-100D30NB		100A	JPG.3	440VAC	50/60Hz		25/085/21	10mA
DR-400D31VS		400A	JPG.4	440VAC	50/60Hz		25/085/21	300mA
DR-600D31VS		600A	JPG.4	440VAC	50/60Hz		25/085/21	300mA

Schematic

电气原理图



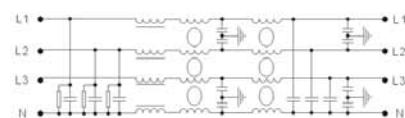
JPG.1



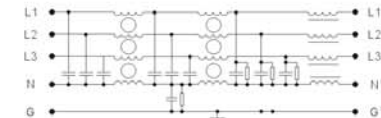
JPG.2

Schematic

电气原理图



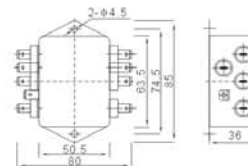
JPG.3



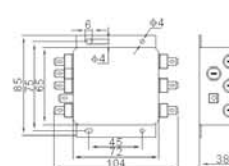
JPG.4

Mechanical Specs

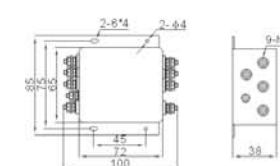
安装尺寸图 单位(Unit):mm



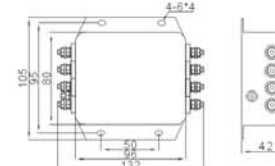
DR-6/10D11HL



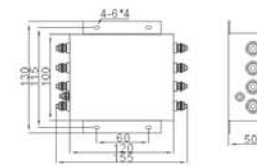
DR-6/10D12CL



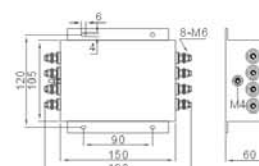
DR-6/10D12CB



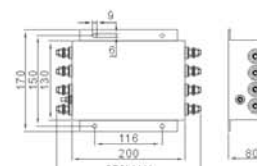
DR-10/20D12EB



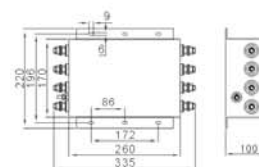
DR-40/50D12GB



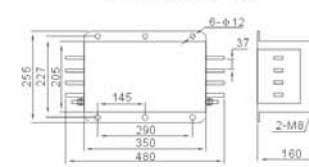
DR-10/20D30FB



DR-80/100D12KB
DR-40/50D30KB



DR-150/200D12NB
DR-80/100D30NB



DR-400/600D31VS

交流单相高电压型滤波器 HIGH-VOLTAGE SERIES FILTER

■ 专用高压电源滤波器，良好的共模差模干扰抑制能力
Specially designed for AC high-voltage series filters, good performance of suppressing common mode and differential mode interference

■ 高效滤波, 适用于开关电源、加油机、UPS以及其他自动化设备
Efficient filter effect, suitable for switching power supply, fuel dispenser UPS as well as the other automation equipments

■ 额定电流1A~200A
Rated current: 1A~200A



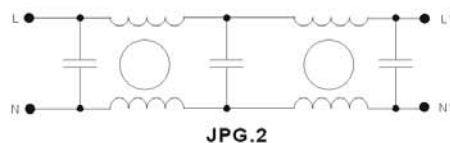
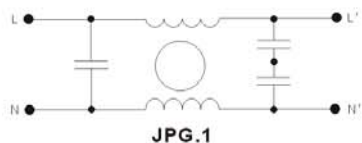
规格表

Specification

滤波器型号 PART No	原理图 Schematic	额定电压 Rated voltage	额定电流 Rated current	泄露电流 Leakage Current	外型尺寸 Envelop Dimensions	端接方式 Connection
DR-1A1PP	JPG.1	220VAC	1A	/	JPG.1	插针
DR-2A1PP	JPG.1	220VAC	2A	/	JPG.1	插针
DR-3A1DW	JPG.1	220VAC	3A	/	JPG.2	软线
DR-4B24AW	JPG.2	220VAC	4A	/	JPG.3	软线
DR-6B24AW	JPG.2	220VAC	6A	/	JPG.3	软线
DR-10B24HL	JPG.2	220VAC	10A	/	JPG.4	焊片

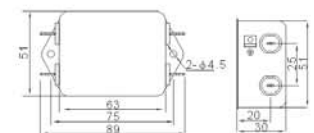
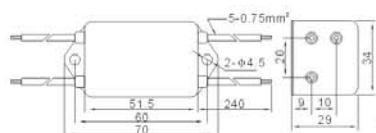
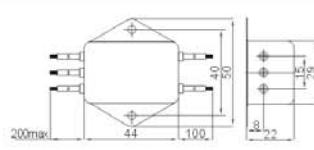
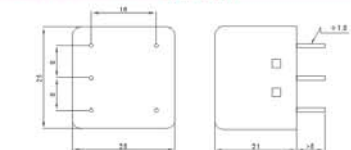
Schematic

电气原理图



Mechanical Specs

安装尺寸图 单位(Unit):mm



医疗专用交流单相滤波器 MEDICAL APPLIANCE SERIES FILTERS

■ 专用高压电源滤波器，良好的共模差模干扰抑制能力
Specially designed for AC high-voltage series filters, good performance of suppressing common mode and differential mode interference

■ 高效滤波, 适用于开关电源、加油机、UPS以及其他自动化设备
Efficient filter effect, suitable for switching power supply, fuel dispenser UPS as well as the other automation equipments

■ 额定电流1A~200A
Rated current:1A~200A



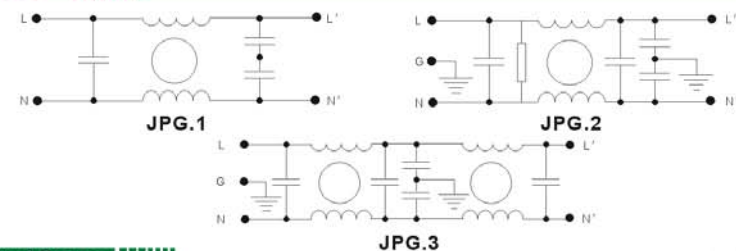
规格表

Specification

滤波器型号 PART No	原理图 Schematic	额定电压 Rated voltage	额定电流 Rated current	泄露电流 Leakage Current	外型尺寸 Envelop Dimensions	端接方式 Connection
DR-3A2DW-HV1	JPG.1	380VAC	3A	≤0.5mA	JPG.1	软线
DR-3B22HL-HV1	JPG.3	380VAC	3A	≤0.5mA	JPG.2	焊片
DR-6B22HL-HV1	JPG.3	380VAC	6A	≤0.5mA	JPG.2	焊片
DR-3A4CB-HV2	JPG.2	660VAC	3A	≤1.0mA	JPG.3	M4 螺栓
DR-6A4CB-HV2	JPG.2	660VAC	6A	≤1.0mA	JPG.3	M4 螺栓
DR-3A4EB-HV3	JPG.2	1140VAC	3A	≤1.0mA	JPG.4	M4 螺栓
DR-6A4EB-HV3	JPG.2	1140VAC	6A	≤1.0mA	JPG.4	M4 螺栓

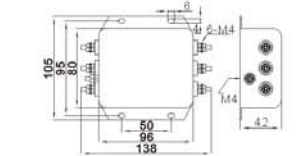
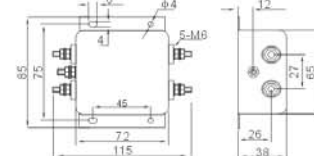
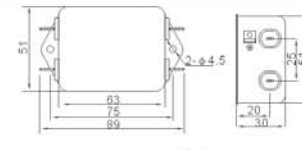
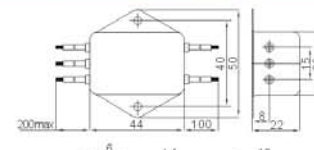
Schematic

电气原理图



Mechanical Specs

安装尺寸图 单位(Unit):mm



整流装置 RECTIFIER

- ZL、RY系列整流器主要用作YEJ电磁制动三相异步电动机与电磁制动器(DZS系列)的接口。
ZL and RY series Rectifier serve to connect YEJ electromagnetic brake 3-phase motors and electromagnetic brakes(DZS series).
- 外形美观、体积小、接线方便。
beautifully designed, small sized and easy to wire.
- 具有输入、输出保护电路。适用于电感器件的高频工作。
power input and output protection, good for high working frequency appliances.
- 密封性好, 适合(YEJ)电动机标准的工作环境, 可直接安装在电机的接线盒内。
well sealed.Meets YEJ motor's working conditions and can be wiring boxes.



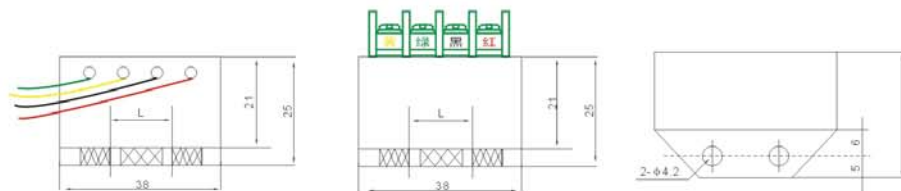
Main technological data

主要技术数据

数据 Contents 型号 Mode	输入电压(V AC) Input Voltage	输出电压(V Dc) Output Voltage	端接方式 Connection
ZS-1	220	99	 A: 引线式 B: 端子式 注: 用户订购时说明端接方式!
ZS-2	380	170	
RY-99	220	99	
RY-170	380	170	
ZL-99	220	99	
ZL-170	380	170	
ZL2-99	220	99	
ZL2-170	380	170	

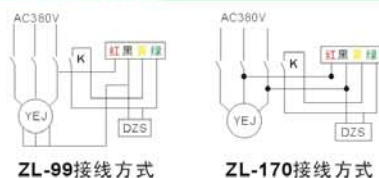
Mechanical Specs

安装尺寸图 单位(Unit):mm



Schematic

电气原理图



上图为止动器快速制动接线方式。当制动器允许以较慢的速度制动时, 可将“K”处短接。
The above is a diagram for high speed braking wiring. If a low speed braking is desired, Short connect“K”

快速整流装置 FAST RECTIFIER

- KZL系列整流器主要用作YEJ电磁制动三相异步电动机与电磁失电制动器(DZS系列)的接口。具有以下特点:
KZL series rectifier is mainly as interface to link YEJ electromagnetic brake three different step motor with electromagnetic lose electric brake (DZS series).
Have the following characteristics:
- 制动时间短, 接线方便, 无需在整流器直流侧接入触点, 就可实现快速制动。
Brake fast, wire conveniently, without inserting the contact indirect current side of rectifier.
- 外形美观、体积小、密封性好, 适合(YEJ)电动机标准的工作环境, 可直接安装在电机的接线盒内。
The appearance is beautiful, small; the sealing is good, suitable for (YEJ) motor's standard the working environment, can install in the terminal box of the electrical machinery directly.
- 具有输入、输出保护电路。适应于电感器件的高频工作。
Have protected introduction and export circuit. Meet high frequency work of inductance device.



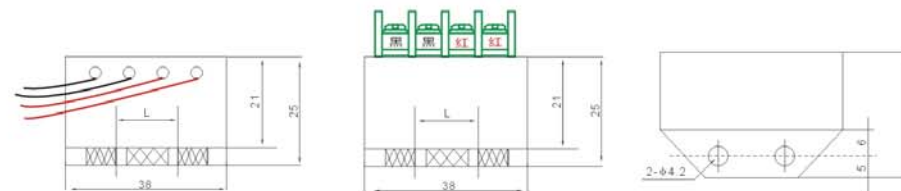
Main technological data

主要技术数据

数据 Contents 型号 Mode	输入电压(V AC) Input Voltage	输出电压(V Dc) Output Voltage	端接方式 Connection
KZS-1	220	99 (绿色 Yellow)	 A: 引线式 B: 端子式 注: 用户订购时说明端接方式!
KZS-2	380	170 (黑色 black)	
RYK-99	220	99 (绿色 Yellow)	
RYK-170	380	170 (黑色 black)	
KZL-99	220	99 (绿色 Yellow)	
KZL-170	380	170 (黑色 black)	
KZL1-99	220	99 (绿色 Yellow)	
KZL1-170	380	170 (黑色 black)	

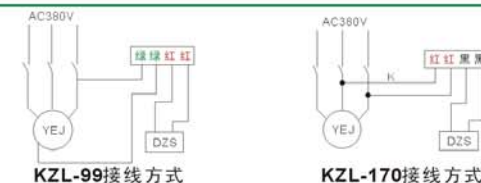
Mechanical Specs

安装尺寸图 单位(Unit):mm



Schematic

电气原理图



刹车整流装置 BREAKRECTIFIER

- 制动时间快，接线方便，无需在整流器直流侧接入触点，就可实现快速制动
Brake fast, wire conveniently, without inserting the contact indirect current side of rectifier.
- 外形美观、体积小、密封性好，适合(YEJ)电动机标准的工作环境，可直接安装在电机的接线盒内。
The appearance is beautiful, small; the sealing is good, suitable for (YEJ) motor's standard the working environment, can install in the terminal box of the electrical machinery directly.
- 具有输入、输出保护电路。适应于电感器件的高频工作。
Have protected introduction and export circuit. Meet high frequency work of inductance device.



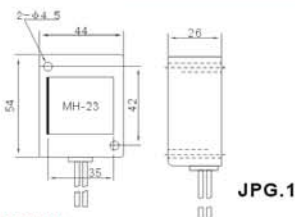
Main technological data

主要技术数据

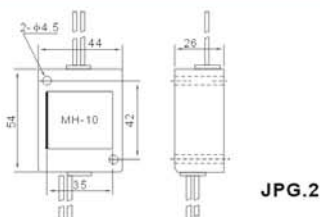
数据 Contents 型号 Mode	输入电压(V AC) Input Voltage	输出电压(V Dc) Output Voltage	端接方式 Connection
MH-23	AC200/240V (黄 YELLOW)	DC90/108V (蓝 BLUE)	
MH-23C	AC200/240V (黄 YELLOW)	DC90/108V (黑 BLACK)	
MH-20TC	AC200/240V (黄 YELLOW)	DC90/108V (黑 BLACK)	
MH-16TC	AC380/440V (黄 YELLOW)	DC171V~200V (蓝 BLUE)	

Mechanical Specs

安装尺寸图 单位(Unit):mm



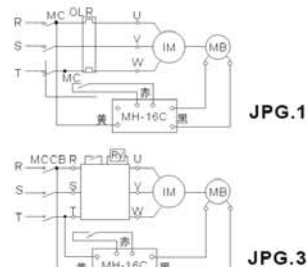
JPG.1



JPG.2

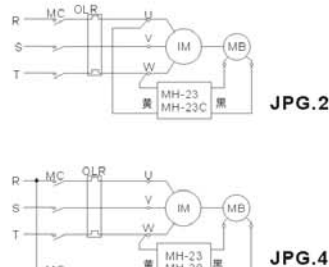
电气原理图

Schematic



JPG.1

JPG.3



JPG.2

JPG.4

浪涌抑制器 SURGE SUPPRESSOR

- 浪涌抑制器作为一种新型电器，电子电路保护装置，与交直流接触器，继电器配套使用，具有显著的浪涌脉冲抵制功能，能有效地保护接触器，继电器的线圈，延长使用寿命，电大特点是能避免浪涌脉冲对PC等智能型电子控制系统的干扰。
- Surge suppressor is new electric appliance and electronic circuit protection mount, it operates with AC and DC contactor relay. It has obvious function of surge pulse suppressing, being efficient to protect contactor and coil of relay, it can prolong the life, the most obvious feature that is avoiding interfering from surge pulse to PC intelligent relevant electrol system.



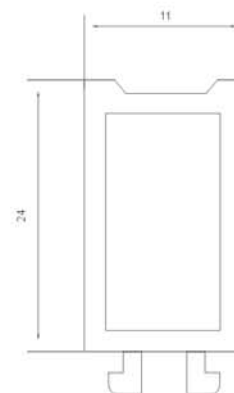
Main technological data

主要技术数据

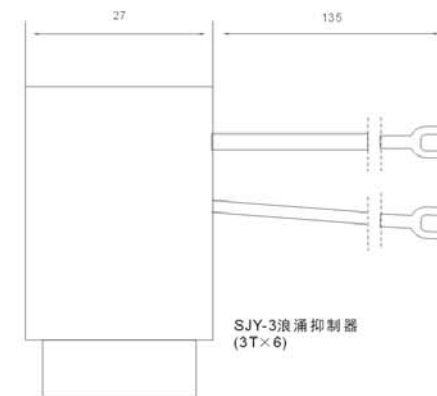
型号 Model	使用电压 Voltage	安装方式 installation mode	所配接触器 AC contactor	对应产品 work
SJY-3	AC/DC24-48V AC/DC110-250V AC380-440V AC/DC24-48V AC/DC100-250V	嵌入面板	CJ20、3TB、 3THBCJX1	3TX6、3TX11

Mechanical Specs

安装尺寸图 单位(Unit):mm



JPG.1



JPG.2

SJY-3浪涌抑制器
(3T×6)

| 产品 PRODUCTS



| 产品 PRODUCTS

