Fullde®
Electric

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Fullde
Electric

变频及周边制动与电梯停电救援

Frequency conversion and peripheral braking and elevator power outage rescue system service providers



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Reactor Series

10 OR制动电阻和电阻箱系列
BRAKE RESISTANCE AND RESISTANCE BOX SERIES



广东福德电子有限公司


湖南福德电气有限公司


株洲福德轨道交通研究院有限公司

关于我们 ABOUT US

广东福德电子有限公司是一家国家高新技术智能制动系统的研发制造企业，总公司位于广东省虎门镇白沙三村工业区，注册资本2500万元，占地面积12000平方米；全资子公司株洲轨道交通研究院有限公司位于湖南省株洲市轨道交通产业园，湖南福德电气有限公司位于湖南益阳。

公司作为行业领先的电力电子集成系统研发制造企业，主要生产销售特高压滤波电阻器、柔性直流启动电阻器、智能测试负载系统、新能源动力电池检测系统、轨道交通机车制动电阻器、船用固态断路器、特种电源、风力发电低电压穿越保护系统等产品。产品广泛应用于特高压、智能电网、军工负载、数据中心、舰船驱动、轨道交通、新能源汽车、风力发电、工业变频等国家战略新兴产业核心领域。现已成为国家电网、南方电网、中船重工、中国海军、中国中车、美国GE、德国西门子、日本日立等企业的战略合作供应商。公司先后获得“国家级专精特新小巨人企业”、“国家高新技术企业”、“广东省民营科技企业”、“东莞市上市后备企业”、“东莞市倍增计划试点企业”、“东莞市知识产权保护重点企业”、“东莞市工程技术中心”、“东莞市专利优势企业”、“广东省工程技术中心”、“东莞市院士专家工作站”等荣誉并多次承担省和国家级创新科研项目。

我司近三年研发投入占销售收入平均占比高达6%，为公司开展科研活动提供了有力的支撑，累计申请专利达600余件，其中发明专利185件，完成科技成果转化56项，并参与了多项国家标准的制修订工作。

我司拥有一支从业十余年的科研创新团队，目前拥有研发人员76人，其中博士2名，硕士生6名。公司先后与湖南大学、西南交通大学、华中科技大学、长沙理工大学、海军工程大学等多所高校开展了深度的产学研合作。2018年，公司与华中科技大学程时杰院士团队共建了东莞市院士工作站并签订了相关协议，在海上升压站、特高压输电、智能微电网及储能电站等电气系统领域开展联合技术攻关，力争打破相关细分领域核心技术长期被国外垄断的局面，缓解相关领域“卡脖子”的问题，填补国内技术空白。

公司通过引进、培养高端技术人才，购置智能制造生产设备，不断研发高新技术产品，推动产品工业化、规模化、智能化进程。

企业荣誉 ENTERPRISE HONOR

广东福德电子有限公司

- 国家高新技术企业
- 国家知识产权专利优势企业
- 国家电能变换与控制工程技术研究中心
- 国网直流建设部设备建造组
- 中美国际合作项目
- 广东省工程技术研究中心
- 广东省守合同重信用企业
- 广东省民营科技企业
- 广东省高新技术企业
- 广东省智能电网及电力电子变换工程技术研究中心
- 广东省湖南商会优秀企业
- 天津大学-福德人工智能技术联合研发中心
- 湖南大学-智能电网研究所研发合作基地
- 湖南大学-福德电子智能制动系统联合实验室
- 湖南城市学院实习基地
- 东莞市倍增计划试点企业
- 东莞市上市后备企业
- 东莞市工程技术研究中心
- 东莞市专利优势企业
- 东莞市知识产权保护重点企业
- 东莞市制动系统工程技术
- 东莞市院士工作站
- 东莞市五星级党组织
- 东莞理工学院城市学院就业创业基地
- ISO9001体系认证
- ISO14001体系认证
- 知识产权管理体系贯标认证
- 两化融合管理体系贯标认证

湖南福德电气有限公司

- 国家高新技术企业
- 湖南省认定企业技术中心
- "创客中国"湖南省中小微企业创新创业大赛一等奖
- 湖南省小巨人企业
- 湖南省认定院士专家工作站
- 国家知识产权专利优势企业
- 国家工信部第一批专精特新小巨人企业

株洲福德轨道交通研究院有限公司

- 国家高新技术企业
- 国家知识产权优势企业
- 湖南省小巨人企业

专利证书 PATENT CERTIFICATE

广东福德电子有限公司立足自主创新，设计研发多项发明。


·发明专利115件


·实用新型专利313件


·外观专利10件


·软件著作权23件

企业文化

企业愿景

·成为全球制动领域领导者

企业精神

·坚持梦想，领先一步

企业使命

·引领制动领域未来开创绿色节能生活

经营理念

·福泽民生，德行天下

服务理念

·为客户提供实实在在有价值的服务

用人理念

·人才是福德持续创造经济人文价值的源泉

品牌理念

·品质源于科技

企业发展历程 DEVELOPMENT OF ENTERPRISES YOU.

2006
·东莞总部成立
广东福德电子有限公司

2011
·涉足电力领域
·被认定为省民营科技企业

2012
·成立新能源技术研发中心
·被认定为高新技术企业

2013
·风力发电用栅格结构Crowbar电阻
·被科技部创新创业基金立项

2014
·成立轨道交通制动电阻装置研发中心
·设立全资子公司湖南福德电气有限公司

2015
·高新技术企业复审认定通过

2016
·被认定为东莞市上市后备企业
·广东省创新创业大赛三等奖
·湖南子公司被认定为高新技术企业及湖南省省级企业技术中心

2017
·被认定为东莞市倍增计划试点企业
·东莞市知识产权保护重点企业
·省守合同重信用企业

2018
·被认定为东莞市工程技术中心
·东莞市专利优势企业
·广东省工程技术中心

2019
·成立东莞院士工作站
·湖南省院士工作站
·湖南省科技进步一等奖
·国家级小巨人企业
·国家知识产权优势企业
·省创新创业大赛三等奖

2020
·在疫情期间实现了逆势增长，营业收入同比增长60%
·被认定为广东省博士工作站

2021
·子公司福德电气被认定为第一批重点支持的国家级专精特新“小巨人”企业
·通过IRIS（国际铁路兴业标准）体系认证
·子公司株洲福德被认定为湖南省小巨人企业
·湖南省服务业发展专项项目
·湖南省两化融合管理体系贯标试点企业

2022
·国家专精特新“小巨人”企业
·子公司被认定国家知识产权优势企业

2023
·坚持跟党走，
坚守可持续发展的不变梦想

电梯停电应急自动疏散装置
Emergency Auto Rescue Device Of Elevator

产品简述 Product Description

电梯停电应急自动疏散装置(以下简称ARD)是专为现代电梯的优化使用而设计的电梯安全装置，该装置全天候检测电梯供电系 统的状态，当运行中的电梯发生供电故障(停电、缺相)，装置立即启动工作，为电梯提供应急运行工作电源，使电梯运行至就 近门区位置，开门放客，避免因电梯困人造成的不良后果。

Emergency auto rescue device of elevator is the safety device designed for the optimization of modern elevator. Ard monitoring the elevator power supply all time, when the elevator power supply system failure (power off, stop-phase) ,it start work immediately and output power for elevator emergency operation. Then elevator run to the nearest door zone and open the door to rescue the passenger, to avoid the consequences caused by the elevator.

ALP系列停电应急自动疏散装置



产品特点Features

1.过载能力强，抗冲击力强，可靠性高，正弦波输出
2.具有过载、短路、欠压、过压、过温等保护电路，运行更可靠
3.智能高效，全天候自动监测电梯电源，实时处于待机状态
4.接线方便，调试简单，性价比更高

1.Strong anti-overload ability, good shock resistance, high reliability, sine wave output.
2.The Device has protection circuits for overload, short circuit, under-voltage, over-voltage and so on, make the elevator running more reliable.
3.The Device is Intelligent and efficient, it monitors the elevator power supply all time and in standby mode all day.
4.The Device is simple connection and easy to debug, it has more cost-effective.

产品型号Product Type	ALP -380-S-104	ALP -380-S-174
适配电梯功率 Elevator Power	< 11KW	V22KW
输出电压Output Voltage	三相四线 AC380V 50/60 Hz,正弦 (Three -phase Four -wire , Sine wave)	三相四线AC380V 50/60HZ,正弦 (Three -phase Four -wire , Sine wave)
充电参数 Charging Parameter	DC55± IV, 1.0A	DC55± 1V, 1.0A
充电时间Charging Time	W24H	W24H
蓄电池组Battery	4x12V 9Ah	4x12V 1 7Ah
单次运行距离 Traveling Distance	10m	W 10m
环境要求 Working Environment	Temp：-20-40^, RH<90%, ASL < 2000m	Temp：-20-40X), RH490%, ASL 2000m

ARD系列停电应急自动疏散装置



产品特点Features

1.设备电池利用率高，内部功耗小，逆变效率高，保证电池电能的利用率
2.抗干扰性强，设备具有输入输出EMI滤波，满足EMC测试
3.对电梯控制系统配套要求低，输出三相四线制交流电源，可提供足够功率电能供一切电梯低速运行
4.效率高、多重AD采样输出电压调整速度快、输出电压稳定
5.安全性高、采用外部接线，不容易接触到设备内部高压元器件，并具有防雷设计
6.过载再启动，当输出过载后，会再次启动，并给出过载信号，方便电梯调整应急运行方向

1.The device battery utilization rate is high and low power consumption and high inverter efficiency.
2.High anti-interference. The device has input and output EMI filter to meet the EMC test.
3.Low requirements for elevator system configuration. The output of the equipment can provide enough power for all elevators to run slowly.
4.high efficiency and multi AD sampling make the output voltage regulating fast and output voltage stability
5.High security, The equipment adopts external wiring to avoid the internal high voltage device
6.Overload restart, When the device detects an overload, it will start again, and give overload signal to facilitate the adjustment of the direction of the elevator.

技术参数 Technical Parameters

产品型号Products Type	ARD -52-D-122	ARD -52-D-124
	三相四线 AC380V ± 10% 50/60 Hz (Three-phase Four-wire , Sine wave)	三相四线 AC380V ± 10% 50/60 Hz (Three -phase Four-wire, Sine wave)
输入电压Input Voltage	AC380V ± 5% 50 /60Hz 正弦	AC380V ± 5% 50/60 Hz 正弦
输出电压Output Voltage	Sine wave	Sine wave
适配电梯功率 Elevator Power	< 11KW	V 22KW
充电参数 Charging Parameter	DC55± 1V, 1.0A	DC55± IV, 1.0A
充电时间 Charging Time	V24H	V 24H
环境要求 Working Environment	Temp：-20-40^, RH&90% ASL<2000m	Temp：-20-40^, RHOO%, ASL<2000m
蓄电池组 Battery	2x12V 14Ah	4x12V 14Ah
外形尺寸Dimension	543*330*130 mm	723*330*130 mm
重量weight	V 30Kg	W 48Kg
单次运行距离 Traveling Distance	10m	W 10m

EPS系列停电应急自动疏散装置

产品特点Features



1.过载能力强，抗冲击力强，可靠性高，正弦波输出
2.具有过载、短路、欠压、过压、过温等保护电路，运行更可靠
3.智能高效，全天候自动监测电梯电源，实时处于待机状态
4.接线方便，调试简单，性价比更高

1.Strong anti-overload ability, good shock resistance,
high reliability, sine wave output.
2.The Device has protection circuits for overload,
short circuit, under-voltage,
over-voltage and so on, make the elevator running more reliable.
3.The Device is Intelligent and efficient, it monitors
the elevator power supply all time and in standby mode all day.

技术参数 Technical Parameters

产品型号Products Type	EPS-2200-S-074	EPS-2200-S-384
输入电压Input Voltage	三相四线AC380V±10% 50/60 Hz (Three-phase Four-wire, Sine wave)	三相四线AC380V±10% 50/60 Hz (Three-phase Four-wire, Sine wave)
输出电压Output Voltage	三相四线AC380V±10% 50/60 Hz (Three-phase Four-wire, Sine wave)	三相四线AC380V±5% 50/60HZ正弦 (Three-phase Four-wire,Sine wave)
适配电梯功率 Elevator Power	w 30 KW	V 55 K
充电参数 Charging Parameter	DC55± 1V, 1.0A	WDC55± IV, 1.0A
充电时间 Charging Time	V 24H	W24H
环境要求 Working Environment	Temp： -20-40X), RH&90%, ASL^2000m	Temp：-20-40X), RH&90%, ASK 2000m
蓄电池组 Battery	4x12V 17Ah	4x12V 38Ah
外形尺寸 Dimension	865*3 45*240mm	680*370*240mm
重量weight	V 52Kg	W 74Kg
单次运行距离 Traveling Distance	W 10m	W 10m

TDZ系列停电应急自动疏散装置

产品简述 Product Description



TDZ系列为传统型应急疏散装置，当检测到电梯停电后，TDZ完全接管电梯的控制权，输出电梯所需的电能，将电梯运 行至平层位置，打开轿门疏散被困乘客。TDZ采用32位DSP微机控制器结合现代IGBT功率器件，工作稳定可靠，操作灵 活简洁。

TDZ series is a traditional emergency evacuation device. TDZ takes control power of elevator when the elevator power off. TDZ output power to elevator, then control the elevator running to the door zone and open the car door to evacuation passengers. TDZusing 32 bit DSP micro-controller and IGBT power device. TDZ running stable and reliable, flexible and simple operation.

产品特点Features

1.反应迅速：检测外电网停电后，TDZ三秒内投入工作；
2.安全可靠：装置与电梯接口采用电气隔离，互不干扰；
3.通用性强：接口灵活，可与各品牌各型号电梯配套使用；
4.自充电免维护：采用三段式充电方式对免维护电池充电，保证蓄电池使用寿命。

1.Responded quickly：When elevator power off, TDZ start running after 3 seconds.
2.Safe and Reliable：The interface between TDZ and elevator is isolated from each other.
3.High universality：TDZ has a flexible interface, Can be adapted to the various brands of elevators.
4.Self charge maintenance：Three stage charging is adopted to guarantee the service life of the battery.

技术参数 Technical Parameters

产品型号Products Type	TDZ -072	TDZ -122
输入电压Input Voltage	三相四线AC380V ±10% 50/60 Hz (Three-phase Four-wire, Sine wave)	三相四线AC380V ±10% 50/60 Hz (Three-phase Four-wire, Sine wave)
输出电压Output Voltage	三相四线AC380V±5% 50/60HZ正弦 (Three-phase Four-wire, Sine wave)	三相四线AC380V±5% 50/60HZ正弦 (Three-phase Four-wire, Sine wave)
适配电梯功率 Elevator Power	£ 5.5 KW	11KW
充电参数 Charging Parameter	DC55 ± 1V , 1.0A	DC55 ± IV , 1.0A
充电时间 Charging Time	V 24H	V 24H
蓄电池组 Battery	2x12V 9Ah	2x12V 14Ah
环境要求 Working Environment	Temp：-20-40X), RH490%, ASK2000m	Temp：-20-40X), RH490%, ASK 2000m

电梯能量回馈装置 Energy feedback device for lifts



电梯能量回馈装置可以把曳引机运行过程中产生的再生能源变成与市电同频率、同相位、同幅值的交流电回馈 到市电网，节省了采用常规能耗制动单元在电阻上消耗的能量；电梯能量回馈装置解决了电梯运行过程中的能 量浪费问题，降低电梯的能耗。

Energy feedback device for lifts can make Regenerative energy generated by traction motor into the same frequency and the same phase, and the same amplitude as commercial power to feedback to the power grid, Energy feedback device saves the energy consumption of braking resistance; Energy feedback device solves the problem of energy waste during elevator operation, and reduces the energy consumption of the elevator.

产品特点Features

1.高效：装置的回馈效率高达95%以上，将绝大部分再生能源回馈到市电网；
2.节能：安装本装置的电梯节电率可达30%-45%；
3.稳定：直流母线稳压，不受电网与负载波动的影响；
4.可靠：不改变电梯原有控制方式，与原系统互为冗余，系统运行更安全可靠；
5.便捷：主动回馈、无需制动单元，接线少、安装调试简单，性价比更高；
6.友好：良好的人机界面，设备运行状态和输入输出参数均可直观显示。

High efficiency: Device's feedback efficiency more than 95%.
Saving: Power saving rate about 35% to 45% .
Stable: DC bus voltage stability and not affected by the power grid and load fluctuations.
Reliable: Device does not change the original control of the elevator, and it redundancy with the original system make the elevator run more safe and reliable.
Convenient: Active feedback, no braking unit, less wiring, easy installation and debugging, higher cost performance.

技术参数 Technical Parameters

产品型号 Products Type	FD-RBU-011	FD-RBU-022	FD-RBU-030	FD-RBU-045
适配电梯功率 Elevator Power	<11KW	W22KW	<30KW	<45 KW
电网电压 Grid Voltage range	三相 AC380V± 15%	三相 AC380V ± 15%	三相 AC380V±15%	三相 AC380V ± 15%
电网频率 Grid Freqrange	50±3Hz	50±3Hz	50±3Hz	50±3Hz
额定电流 Current range	10A	20A	28A	42A
动作电压 Act voltage	620V < Vact < 720V 可设置			
电压控制精度 Voltage controlprecision	≤55%			
功率因素PF	>0.95			
输出谐波THD	THD< 5N			
运行效率η	≥97%			
过载能力 Overload	1.4倍60s, 1.5倍保护			
保护响应 Protection response	≤10us			
控制方式 Control Mode	主动回馈偃能回馈Active feedback / Enablefeedback			
显示界面Display	电网电压，交流电流、直流电压、实时功率、回馈电能、故障信息 Grid voltage, AC current, DC voltage, constantly power, feedback power, fault information			
电磁兼容 electromagnetic compatibility	符合GB/T725 1-2005相关要求			
防护等级IP	IP20			
环境要求 Environment	Temp:-10-40°C, RH≤90%, ASL≤1000m			

RXLT电梯加热器 RXLT Elevator Heater

产品简述 Product Description

电梯加热器利用了电阻工作运行是发热的原理产生热量，给电梯各个部分加热。在低温环境下，开启加热器，加热器 为整个电梯加热，确保电梯在低温环境下的正常运行，提高了电梯运行的安全性。产品尺寸根据客户需求，可在不同 场合的安装使用。

The elevator heater utilizes the resistance work to run the heat generation principle to generate heat, heating the various parts of the elevator. In low temperature environment, open the heater, the heater for the entire elevator heating, to ensure that the elevator in the low temperature environment of normal operation, improve the safety of the elevator operation. Product size according to customer needs, can be installed on different occasions.

应用领域 Application Areas

1.电梯机房加热，防止电气线路冷凝
2.梳齿板加热，防止雨雪打滑事故
3.梯级加热，防止雨雪打滑事故
4.扶手带加热，延长扶手带使用寿命

1.Elevator machine room heating, to prevent the electrical line condensation
2.comb plate heating, to prevent rain and snow slippery accident
3.Cascade heating to prevent rain and snow slippery accident
4.Handrail with heating to extend the life of the handrail

产品特点Features

1.防爆结构，安全可靠	1.Explosion-proof structure, safe and reliable
2.活动支架，任意尺寸可安装	2.Active bracket, any size can be installed
3.环保安全，无有害物质释放	3.Environmental safety, no release of harmful substances
4.防护等级高，适合恶劣环境	4.High degree of protection, suitable for harsh environments
5.通过CE认证	5.Through CE certification

技术参数 Technical Parameters

项目Items	标准值 Standard
工作环境温度Working temperature	-40°C ～40°C
电压范围Voltage range	【值流】DC12、24、48、60、72、110V 【交流】AC12、24、48、110' 220V、380V
阻值范围Value range	1R-1kR
耐压Dielectric strength	2.5kV -5kV/1min 50Hz
绝缘电阻Insulation resistance	100MΩ 1 min
IP等级IP class	IP55-IP67
安装方式Installation method	水平或者竖直安装
温漂Temperature drift	≤400 ppm/°C
振动Vibration	F：5-200Hz a=0.5g X.Y 各 2H (2H for both X and Y)

电气规格Electrical Specifications

特性 Property	测试方法 Inspection method	性能要求 Requirement	试验标准 Test method
阻值和误差 Resistance value and tolerance	常温测试 Normal temperature test	ΔR±5%	GB5729.4.5
短时间过负荷 Transient Overload	5 倍 Pr 5S 5 Time Pr 5s	无可见损伤R<±(2 %±0.05Ω) No visible destruction	GB5729.4.13
温度系数 Temperature Coefficient	实验温度：室温+100 °C Test temperature：indoors Temp.+ 100°C	a≤± 530 PPM/ °C	GB5729.4.8
绝缘电阻 Insulation Resistance	直流电压500V	R≥100MQ/1Min	GB5729.4.6
耐电压 Voltage Resistibility	AC 250 0V50Hz IMin	无击穿或飞弧 Free of breakage of flying arc	GB5729.4.7
耐振性 Vibration Resistibility	f：5 -200Hz a=1.5g X.Y,Z 各2h f：5 200Hz a=1.5g 2H for both X YZ	无可见损伤R≤±(1%±0.05Ω) Free of visible destruction	GB5729.4.22
稳态湿热 Constant Damp -heat	40 °C相对湿度90% 96h Temperature 40°C.RH90% 96h	R≤±(5%±0.05Ω)	GB5729.2.24
温度快变化 Temperature change	-55 +55 °C 3次循环 -55 to +55 °C,3 Circes	R≤±(2%±0.05Ω)	GB5729.4.19

型号说明 Type Specification

RXLT ↓	220V ↓	10R ↓	J ↓
产品类别 Style	电压成品 Voltage	阻值误差 Value	误差 Tolerance
RXLT 电梯加热器	110V-110V 220V-220V 380V-380V	1R-1Q 100R-100Q 1K-1000Q	F-±1% G-±2% J-±5%

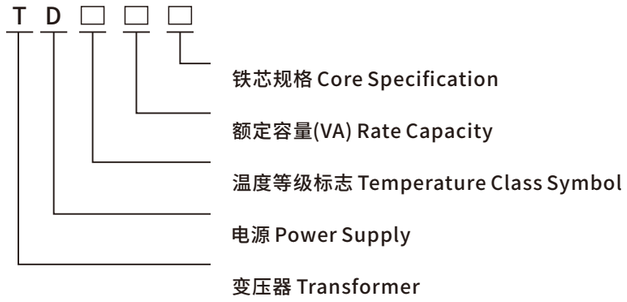
TD系列电源变压器 TD series power transformer

产品简述 Product Description

TD系列电源变压器适用于交流50-60HZ,电压在1140V以下的电路,用作隔 离电源。本系列产品具有性能优良,安全可靠等特点,目前已广泛应用于变 频、光伏、风电、医疗器械等领域。

Td series power transformer for ac 50-60hz, the voltage below 1140v circuit, used as isolated power supply. This series of products with excellent performance, safe and reliable features, has been widely used in frequency, photovoltaic, wind power, medical equipment and other fields.

型号及其含义 Model and its meaning



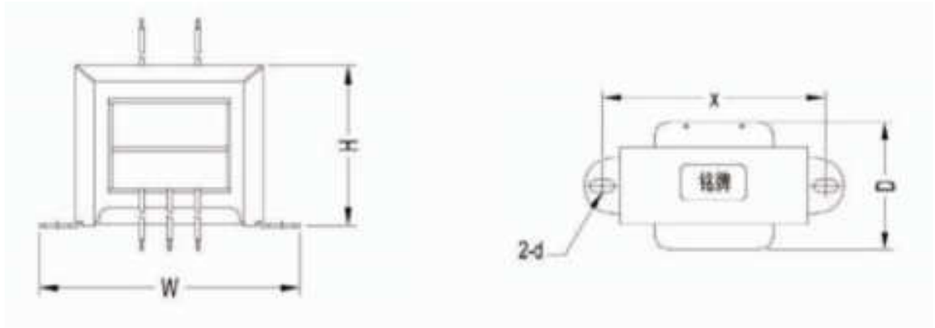
使用环境 Usage environment

A)海拔高度不超过1000m, 1000m以上降额使用;
B)环境温度:-25～55℃
C)相对湿度:≤95%
D)安装场所无影响变压器绝缘的气体、化学性沉积、灰尘及其它爆炸性侵蚀性介质

A)altitude of not more than 1000m, more than 1000m derating use
B)Ambient temperature: -25 to 55 ℃
C)Relative humidity: ≤ 95%
D)The installation site does not affect the transformer insulation of the gas, chemical deposition, dust and other explosive aggressive media.

夹壳式变压器 Folder type transformer

外形及安装尺寸 Shape and installation dimensions

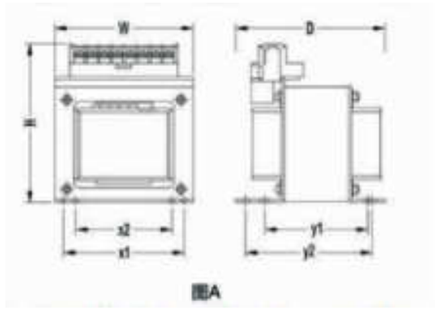


EI系列单相变压器尺寸表(mm) EI series single-phase transformer size table (mm)

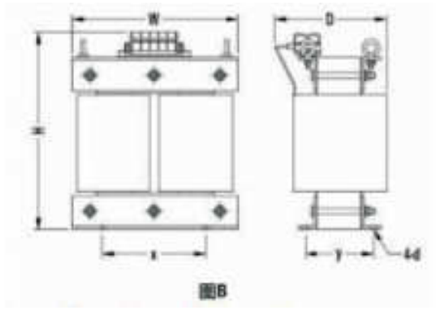
产品型号 Type Product	绝缘等级 Insulation Glass	容量 Capacity	外形尺寸(Max) Overall Dimentions				安装尺寸(土 2) Installation Dimensions	重量 Weight
			W	D	H	X		
TDA-6-48	A	6	76	40	44	62	Φ4.2x7	0.36kg
TDA-8-48	A	8	76	44	44	62	Φ4.2x7	0.45kg
TDA-10-48	A	10	76	50	44	62	Φ4.2x7	0.45kg
TDA-12-57	A	12	85	42	52	70	Φ4.2x7	0.50kg
TDA-15-27	A	15	85	46	52	70	Φ4.5x8	0.65kg
TDA-20-57	A	20	85	52	52	70	Φ4.5x8	0.73kg
TDA-25-60	A	25	87	60	54	73	Φ4.5x8	0.85kg
TDA-30-66	A	30	96	60	59	82	Φ4.5x8	0.95kg
TDA-35-66	A	35	96	64	59	82	Φ4.5x8	1.00kg
TDA-40-66	A	40	96	68	59	82	Φ4.5x8	0.31kg

夹件式变压器 Clip type transformer

外形及安装尺寸 Shape and installation dimensions



图A



图B

El系列单相变压器尺寸表(mm)
El series single-phase transformer size table (mm)

产品型号 Product Type	绝缘等级 Insulation Class	容量(VA) Capacity	外形尺寸(Max) Overall Dimentions			安装尺寸(±2) Installation Dimensions			重量 Weight
			W	D	H	x	y	d	
TDA-25-76	A	25	78	79	95	52	60	Φ4.5	1.1kg
TDA-50-76	A	50	78	84	95	52	65	Φ4.5	13kg
TDA-75-76	A	75	78	94	95	52	75	Φ4.5	1.6kg
TDA-100-86	A	100	88	87	103	62	75	Φ4.5	2.1kg
TDA-150-96	A	150	98	100	112	69	80	Φ4.5	3.9kg
TDA-200-96	A	200	98	110	112	69	89	Φ4.5	4.4kg
TDB-300-114	B	300	116	102	127	99	87	Φ4.5	5.0kg
TDB-400-133	B	400	135	100	148	111	80	Φ6	5.6kg
TDB-50O133	B	500	135	115	148	111	95	Φ6	7.0kg
TDB-750-152	B	750	154	125	167	133	105	Φ7	10.0kg
TDB-1K-152	B	1K	154	140	167	133	120	Φ7	10.6kg
TDF-1.5K-171	F	1.5K	173	165	181	140	130	Φ8x12	17.0kg
TDF-2K-192	F	2K	194	180	209	140	150	Φ8x12	22.5kg
TDF-3K-222	F	3K	224	195	233	130	140	Φ8x12	32.5kg
TDF-5K-240	F	5K	242	220	257	180	186	Φ8.5x14	58.5kg
TDF-7.5K-65	F	7.5K	270	260	370	180	130	Φ8.5x14	60.0kg
TTDF-10K-65	F	10K	270	310	375	180	150	Φ10x15	67.5kg
TTDF-15K-70	F	15K	300	340	410	180	210	Φ10x15	86.5kg
TTDF-20K-75T	F	20K	310	390	465	190	230	Φ10x15	111kg

BK系列电源变压器 BK series power transformer

产品简述 Product Description

BK系列控制变压器适用于电压下作控制的照明电源用。广泛应用于工程机械、中央空调、电梯行业等领域。

Bk series of control transformers for voltage control for the use of lighting power. Widely used in construction machinery, central air conditioning, elevator industry and other field.

型号及其含义 Model and its meaning



外形及安装尺寸 Shape and installation dimensions

El系列单相变压器尺寸表(mm)
El series single-phase transformer size table (mm)

产品型号 Product Type	绝缘等级 Insulation Class	容量(VA) Capacity	外形尺寸(Max) Overall Dimentions			安装尺寸(±2) Installation Dimensions			重量 Weight
			W	D	H	x	y	d	
BK-25								Φ4.5	
BK-50	A	50	78	84	95	52	65	Φ4.5	13kg
BK-75								Φ4.5	
BK-100	A	100	88	87	103	62	75	Φ4.5	2.1kg
BK-150								Φ4.5	
BK-200	A	200	98	110	112	69	89	Φ4.5	4.4kg
BK-300								Φ4.5	
BK-400	B	400	135	100	148	111	80	Φ6	5.6kg
BK-500								Φ6	
BK-750	B	750	154	125	167	133	105	Φ7	10.0kg
BK-1K								Φ7	
BK-L5K	F	1.5K	173	165	181	140	130	Φ8x12	17.0kg
BK-2K	F	2K	194	180	209	140	150	Φ8x12	22.5kg
BK-3K	F	3K	224	195	233	130	140	Φ8x12	32.5kg

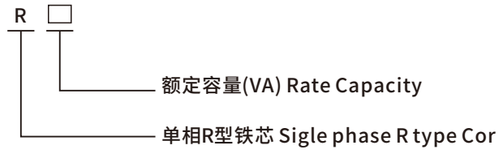
R系列电源变压器 R series power transformer

产品简述 Product Description

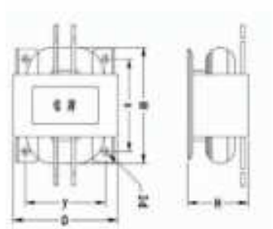
R系列变压器适用频率范围50～400Hz;采用取向性、高导磁率硅钢带制成截面无切割的铁芯，具有噪音小、体积小、重置轻、温升低、漏磁小、过载能力强、铁损和铜损等一系列优点。

R series transformer frequency range 50 ～ 400Hz; the use of orientation, high permeability silicon steel strip made of non-cutting section of the core, with a small noise, small size, reset light, low temperature, small magnetic leakage, overload capacity , Iron loss and copper loss and a series of advantages.

型号及其含义 Model and its meaning



外形及安装尺寸 Shape and installation dimensions





R系列单相变压器尺寸表(mm) R series single-phase transformer size table (mm)

产品型号 Type Product	外形尺寸(Max) Overall Dimention			安装尺寸(±2) Installation Dimensions			重量 Weight
	W	D	H	x	y	d	
R-5	61	49	25	45	30	Φ4	0.22kg
R-8	67	60	34	53	44	Φ4	0.3 1kg
R-10	79	63	33	68	48	Φ4x6	0.41 k g
R-20	80	73	37	60	50	Φ4x7	0.53kg
R-26	83	73	37	70	55	Φ4x9	0.6 1kg
R-30	94	76	44	70	60	Φ5x10	0.79kg
R-40	95	83	45	70	60	Φ5x10	0.88kg
R-50	96	85	45	75	65	Φ5x8	1 .06kg
R-65	102	82	45	75	65	Φ5x8	1.24kg
R-80	122	92	48	90	70	Φ5x11	1 .55kg
R-100	122	102	55	100	75	Φ5x8	1 .95kg
R-160	144	113	60	110	80	Φ5	2.45 kg
R-260	160	120	63	130	95	Φ5x10	3.55kg
R-320	167	129	68	130	102	Φ6	4.1 0kg
R-600	190	150	78	145	115	Φ6	6.10kg
R-800	203	159	85	145	115	Φ6	8.20 kg
R-1 K	226	172	92	175	135	Φ8	9.80 kg
R-1 . 5 K	239	187	101	175	145	Φ8x12	14.0kg
R-2 K	253	200	109	185	160	Φ8	1 6.5kg

HB系列环形变压器 HB series toroidal transformer

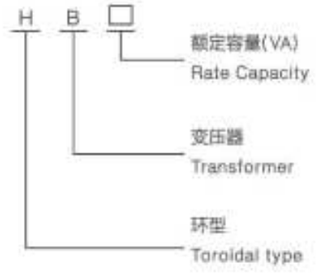
产品简述 Product Description

HB系列环形变压器适用频率范围为50～60Hz。电压不高于660V的交 流电路中。该系列变压器绕组均匀分布在整个铁芯表面且紧贴铁芯，电 磁耦合性好、漏磁小、内阻低、体积小、重量轻。

HB series toroidal transformer for the frequency range of 50 ～60Hz. Voltage is not higher than the 660V AC circuit. The series of transformer windings evenly distributed throughout the core surface and close to the core, good electromagnetic coupling, magnetic leakage, low internal resistance, small size, light weight.

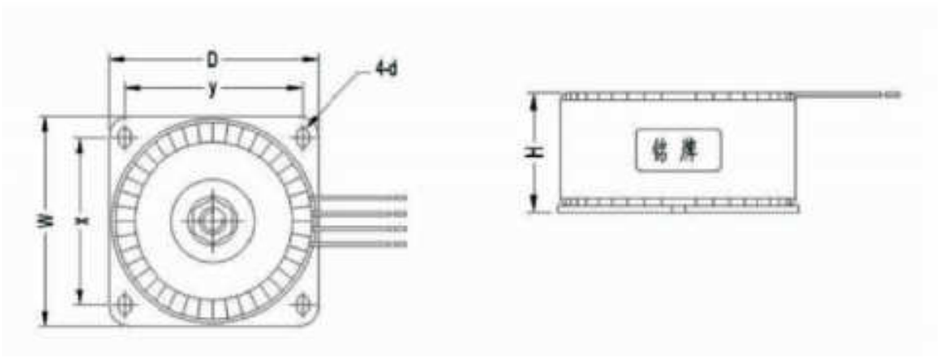


型号及其含义 Model and its meaning



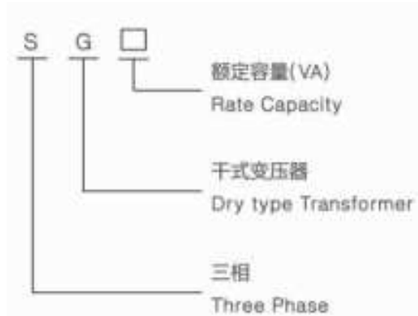
外形及安装尺寸 Shape and installation dimensions

外形及安装尺寸 Shape and installation dimensions



SG系列三相干式变压器
SG series three-phase dry-type transformers

型号及其含义 Model and its meaning



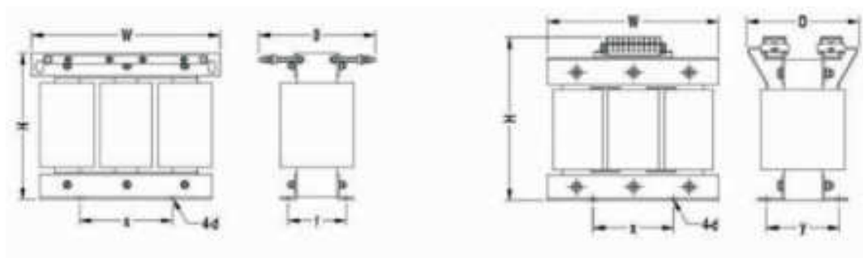


使用环境 Usage environment

A)海拔高度不超过1000m, 1000m以上降额使用；
B)环境温度：-25～55℃
C)相对湿度：≤95%
D)安装场所无影响变压器绝缘的气体、化学性沉积、灰尘及其它爆炸性侵蚀性介质。
E)电源电压的波形近似正弦波，三相电压相对平衡。

A)altitude of not more than 1000m, more than 1000m derating use；
B)Ambient temperature：-25 to 55℃
C)Relative humidity：≤ 95%
D)The installation site does not affect the transformer insulation of the gas, chemical deposition, dust and other explosive aggressive media.
E)The voltage of the power supply voltage is approximately sinusoidal and the three-phase voltage is relatively balanced.

外形及安装尺寸 Shape and installation dimensions



SG系列三相干式变压器参考尺寸表(mm)
SG series three-phase dry transformer reference size table (mm)

产品型号 Product Type	绝缘等级 Insulation Class	容量(VA) Capacity	外形尺寸(Max) Overall Dimentions			安装尺寸(±2) Installation Dimensions			重量 Weight
			W	D	H	x	y	d	
SG-50	B	50	110	100	125	90	55	Φ6x12	1.8kg
SG-100	B	100	125	100	130	110	52	Φ5x9	2.9kg
SG-200	B	200	150	116	155	130	70	Φ5x9	5.8kg
SG-300	B	300	150	116	155	130	75	Φ5x9	6.3kg
SG-500	F	500	190	116	172	130	85	Φ6x9	9kg
SG-750	F	750	190	130	172	130	105	Φ6x9	13kg
SG-1K	F	1K	240	145	230	100	101	Φ6x9	16kg
SG-2K	F	2K	240	170	230	100	126	Φ6x9	24kg
SG-3K	F	3K	265	220	260	125	135	Φ6x9	35kg
SG-4K	F	4K	300	210	295	160	132	Φ6x9	38kg
SG-5K	F	5K	330	220	310	160	143	Φ10x15	46kg
SG-6K	F	6K	330	230	310	160	153	Φ10x15	58kg
SG-7K	F	7K	360	240	360	200	156	Φ10x15	64kg
SG-8K	F	8K	360	245	360	200	161	Φ10x15	80kg
SG-9K	F	9K	360	250	360	200	166	Φ10x15	85kg
SG-10K	F	10K	360	260	360	200	171	Φ10x15	104kg
SG-15K	F	15K	360	290	370	200	201	Φ10x15	148kg
SG-20K	F	20K	420	300	410	200	208	Φ12x18	186kg
SG-25K	F	25K	620	390	480	400	175	Φ14x30	207kg
SG-30K	F	30K	635	400	500	400	180	Φ14x30	231kg
S6-35K	F	35K	480	350	440	300	180	Φ13x20	215kg
SG-40K	F	40K	500	370	420	300	190	Φ13x20	250kg
SG-45K	F	45K	520	370	470	300	190	Φ13x20	280kg
SG-50K	F	50K	530	380	520	300	200	Φ13x20	320kg
SG-60K	F	60K	590	390	610	400	215	Φ13x20	420kg
SG-70K	F	70K	640	400	570	400	220	Φ13x20	425kg
SG-100K	F	100K	690	420	650	500	230	Φ13x20	580kg

交流输入电抗器 AC input reactor

产品简述 Product Description

输入电抗器串联在电源进线与变频器的输入侧，用于抑制输入电流的高 次谐波。限制电网电压突变和操作过电压引起的浪涌电压对变频器的冲 击，有效地保护变频器整流单元，改善三相电源的不平衡性，提高输入 电源的功率因数。



The input reactor is connected in series with the input side of the power supply line and the inverter for suppressing the high harmonics of the input current. Limit the power grid voltage and the operation of the surge voltage caused by the surge voltage on the impact of the inverter to effectively protect the inverter rectifier unit to improve the imbalance of three-phase power supply to improve the input power factor.

产品特点Features

采用高性能的箔式绕组结构，具有直流电阻小，抗短路能力强，瞬时过载能力强；性能可靠，线性度 好，经真空压力浸渍工艺处理噪音小：铁芯采用优质高硅冷轧矽钢片使电抗器损耗小、效率高、温升 低。

The use of high-performance foil winding structure, with a small DC resistance, short circuit resistance, instantaneous overload capacity; reliable performance, good linearity, vacuum pressure impregnation process to deal with small voice: high-quality high-silicon cold-rolled silicon steel Chip to make the reactor loss is small, high efficiency, low temperature.

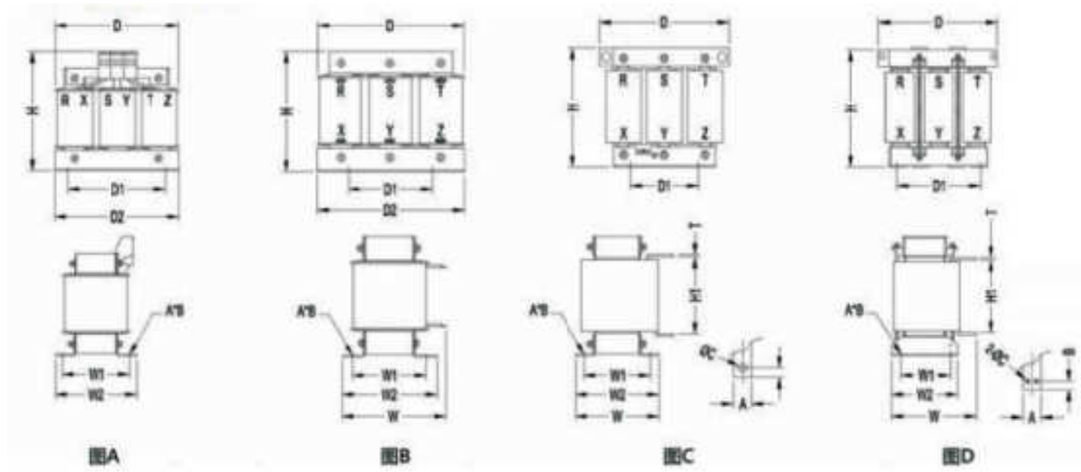
技术参数 Technical Parameters

额定工作电压：380V/50HZ
额定工作电流：5A到600A@40℃
抗电强度：铁芯-绕组3000VAC/50Hz/5mA/10s无飞弧击穿(工厂测试)
绝缘电阻：1000VDC绝缘阻值≥2100MΩ
电抗器噪音：小子65dB(与电抗器水平距离点1米测试)
防护等级：IP00
绝缘等级：F级以上
产品执行标准：GBT1094.6-2011电抗器　JB9644-1999半导体电气传动用电抗器

Rated operating voltage: 380V / 50HZ
Rated operating current: 5A to 1600A @ 40 ℃
Dielectric strength: Core - Winding 3000VAC / 50HZ / 5mA / 10s No flashover (factory test)
Insulation resistance: 1000VDC Insulation resistance≥100MΩ
Reactor noise: kid 65dB (1 meter test with quarrel horizontal distance)

交流输入电抗器 AC input reactor

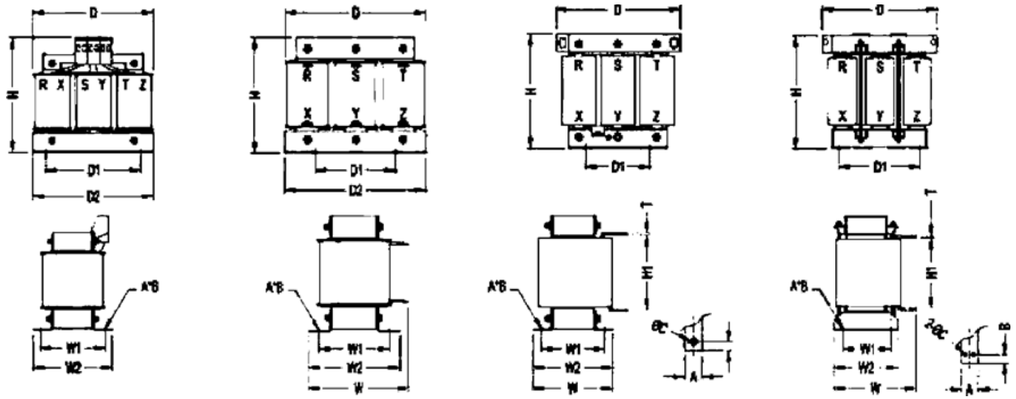
外形及安装尺寸 Shape and installation



产品型号 Product Type	功率 Power (KW)	额定电流 Current Rated	电感量 nductance Value(mH)	压降 Voltage Drop	绝缘等级 Insulation Class	外形尺寸(+/-5 mm) Overall Dimentions								
						D	D1	D2	W	W1	W1	H	HI	A*B
LSDZ01-5A/2.8mH	1.5	5A	2.8mH	2%	F	110	90	105	/	65	80	130	/	5*12
LSDZ01-7A/2mH	2.2	7A	2mH	2%	F	110	90	105	/	65	80	130	/	5*12
LSDZ01-10A/1.4mH	3.7	10A	1.4mH	2%	F	110	90	105	/	65	80	130	/	5*12
LSDZ01-15A/0.93mH	5.5	15A	0.93mH	2%	F	155	95	150	/	60	75	150	/	5*16
LSDZ01-20A/0.7mH	7.5	20A	0.7mH	2%	F	155	95	150	/	79	94	150	/	6*16
LSDZ01-30A/0.47mH	11	30A	0.47mH	2%	F	155	95	150	150	78	94	130	/	6*16
LSDZ01-40A/0.35mH	15	40A	0.35mH	2%	F	155	95	150	150	78	94	130	/	6*16
LSDZ01-50A/0.28mH	18.5	50A	0.28mH	2%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ01-60A/0.24mH	22	60A	0.24mH	2%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ01-80A/0.17mH	30	80A	0.17mH	2%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ01-90A/0.16mH	37	90A	0.16mH	2%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ01-120A/0.12mH	45	120A	0.12mH	2%	F	255	180	81	145	76	104	230	140	11*18

交流输入电抗器 AC input reactor

外形及安装尺寸 Shape and installation dimensions



产品型号 Product Type	功率 Power (KW)	额定电流 Current Rated	电感量 Inductance Value(mH)	压降 Voltage Drop	绝缘等级 Insulation Class	外形尺寸(+/-5 mm) Overall Dimentions								
						D	DI	D2	W	W1	W2	H	HI	A*B
LSDZ01-5A/5.6mH	1.5	5A	5.6mH	2%	F	155	95	150	/	60	75	150	/	5*16
LSDZ01-7A/4mH	2.2	7A	4mH	2%	F	155	95	150	/	60	75	150	/	5*16
LSDZ01-10A/2.8mH	3.7	10A	2.8mH	2%	F	155	95	150	/	78	94	150	/	5*16
LSDZ01-15A/1.8mH	5.5	15A	1.8mH	2%	F	155	95	150	150	78	94	150	/	5*16
LSDZ01-20A/1.4mH	7.5	20A	1.4mH	2%	F	155	95	150	150	78	94	150	/	5*16
LSDZ01-30A/0.93mH	11	30A	0.93mH	2%	F	195	120	188	130	84	92	160	/	8.5*18
LSDZ01-40A/0.7mH	15	40A	0.7mH	2%	F	195	120	188	160	94	112	160	/	8.5*18
LSDZ01-50A/0.56mH	18.5	50A	0.56mH	2%	F	195	120	188	160	94	112	160	/	8.5*18
LSDZ01-60A/0.46mH	22	60A	0.46mH	2%	F	195	120	188	170	104	122	160	/	8.5*18
LSDZ01-80A/0.35mH	30	80A	0.35mH	2%	F	195	120	188	170	109	127	180	/	8.5*18
LSDZ01-90A/0.31mH	37	90A	0.31mH	2%	F	195	120	188	170	109	127	180	/	8.5*18
LSDZ01-120A/0.23mH	45	120A	0.23mH	2%	F	255	180	81	190	104	134	230	140	11*18

交流输出电抗器 AC output reactor

产品简述 Product Description

输出电抗器设置在变频器的输出侧与电动机间的电路，用于补偿长线分布电容的影响，有效抑制变频器输出的谐波，并减小变频器噪音：降低电动机端子上的du/dt和减小负荷电流的峰值，避免电动机的绝缘过早老化和电动机及变频器损坏。

The output reactor is provided between the output side of the inverter and the motor to compensate for the influence of the long-term distributed capacitance,effectively suppress the harmonics of the inverter output and reduce the noise of the inverter: reduce du / dt on the motor terminals Reduce the peak load current, to avoid premature aging of the motor and motor and inverter damage.

产品特点Features

电抗器可依据客户使用频率合理选择磁性材料(硅钢片、铁氧体磁芯、非晶铁芯、磁粉磁芯)；采用高性能的箔式 绕组结构，具有直流电阻小，抗短路能力强，瞬时过载能力强；性能可靠，线性度好，经真空压力浸渍工艺处理噪音小。

Reactor can be based on the frequency of the use of a reasonable choice of magnetic materials (silicon steel, ferrite core, amorphous core, magnetic core); the use of high-performance foil winding structure, with a small DC resistance, Instantaneous overload capacity; reliable performance, good linearity, vacuum pressure impregnation process to deal with small noise.

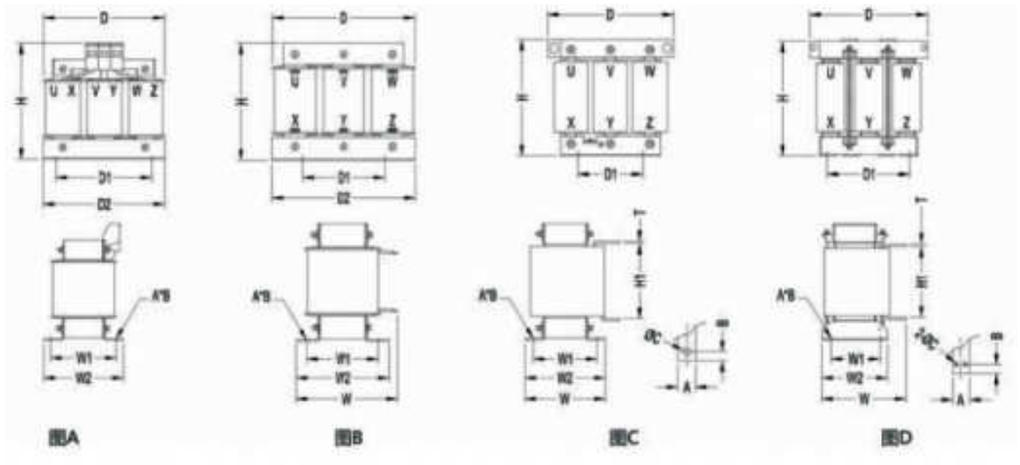
技术参数 Technical Parameters

额定工作电压：380V/50Hz
额定工作电流：5 A至M600A@40℃
抗电强度：铁芯-绕组3000VAC/50Hz/5mA/10s无飞弧击穿(工厂测试)
绝缘电阻：1000VDC　绝缘阻值≥100 MΩ
电抗器噪音：小于65dB(与电抗器水平距离点1米测试)
防护等级：P00
绝缘等级：F级以上
产品执行标准：GBT1094.6-2011电抗器
　　JB9644-1999半导体电气传动用电抗器

Rated operating voltage: 380V / 50Hz
Rated operating current: 5 A to 1600A @ 40 °C
Dielectric strength: Core - Winding 3000VAC / 50HZ / 5mA / 10s No flashover (factory test)
Insulation resistance: 1000VDC Insulation resistance ≥100MΩ
Reactor noise: less than 65dB (1 meter test with quarrel horizontal distance)
Protection class: P00
Insulation class: F level above
Product implementation standards: GBT1094.6-20reactor
Reactor for semiconductor electrical transmission GB9644-1999

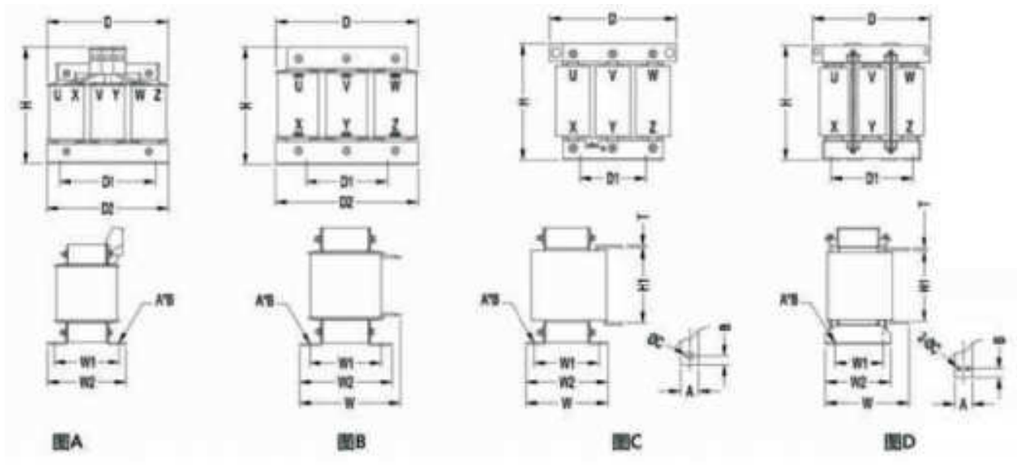
交流输出电抗器 AC output reactor

外形及安装尺寸 Shape and installation dimensions



产品型号 Product Type	功率 Power (KW)	额定电流 Current Rated	电感量 Inductance Value(mH)	压降 Voltage Drop	绝缘等级 Insulation Class	外形尺寸(+/-5 mm) Overall Dimentions								
						D	DI	D2	W	W1	W2	H	HI	A*B
LSDZ02-5A/2.8mH	1.5	5A	2.8mH	2%	F	110	90	105	/	65	80	130	/	6*12
LSDZ02-7A/2mH	2.2	7A	2mH	2%	F	110	90	105	/	65	80	130	/	6*12
LSDZ02-10A/1.4mH	3.7	10A	1.4mH	2%	F	110	90	105	/	65	80	130	/	6*12
LSDZ02-15A/0.93mH	5.5	15A	0.93mH	2%	F	155	95	150	/	60	75	150	/	6*16
LSDZ02-20A/0.7mH	2.5	20A	0.7mH	2%	F	155	95	150	/	79	94	150	/	6*16
LSDZ02-30A/0.47mH	11	30A	0.47mH	2%	F	155	95	150	150	78	94	130	/	6*16
LSDZ02-40A/0.35mH	15	40A	0.35mH	2%	F	155	95	150	150	78	94	130	/	6*16
LSDZ02-50A/0.28mH	18.5	50A	0.28mH	2%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ02-60A/0.24mH	22	60A	0.24mH	2%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ02-80A/0.17mH	30	80A	0.17mH	2%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ02-90A/0.16mH	37	90A	0.16mH	2%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ02-120A/0.12mH	45	120A	0.12mH	2%	F	255	180	81	145	76	104	225	160	11*18

外形及安装尺寸 Shape and installation dimensions



产品型号 Product Type	功率 Power (KW)	额定电流 Current Rated	电感量 Inductance Value(mH)	压降 Voltage Drop	绝缘等级 Insulation Class	外形尺寸(+/-5 mm) Overall Dimentions								
						D	DI	D2	W	W1	W2	H	HI	A*B
LSDZ02-5A/1.4mH	1.5	5A	1.4mH	1%	F	110	90	105	/	65	80	130	/	6*12
LSDZ02-7A/1.0mH	2.2	7A	1mH	1%	F	110	90	105	/	65	80	130	/	6*12
LSDZ02-10A/0.7mH	3.7	10A	0.7mH	1%	F	110	90	105	/	65	80	130	/	6*12
LSDZ02-15A/0.47mH	5.5	15A	0.47mH	1%	F	155	95	150	/	60	75	150	/	6*16
LSDZ02-20A/0.7mH	7.5	20A	0.35mH	1%	F	155	95	150	/	79	94	150	/	6*16
LSDZ02-30A/0.47mH	11	30A	0.23mH	1%	F	155	95	150	150	78	94	130	/	6*16
LSDZ02-40A/0.18mH	15	40A	0.18mH	1%	F	155	95	150	150	78	94	130	/	6*16
LSDZ02-50A/0.14mH	18.5	50A	0.14mH	1%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ02-60A/0.12mH	22	60A	0.12mH	1%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ02-80A/0.087mH	30	80A	0.087mH	1%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ02-90A/0.078mH	37	90A	0.078mH	1%	F	195	120	188	150	74	92	160	/	8.5*18
LSDZ02-120A/0.058mH	45	120A	0.058mH	1%	F	255	180	81	145	76	104	225	160	11*18

直流电抗器 DC reactor





产品简述 Product Description

直流电抗器用于整流后的直流回路中，经电抗器后输出的直流更接近于理想直流；用 于变频器的整流环节与逆变环节之间，减小输入电流的高次谐波成分，使逆变环节运 行更稳定，提高输入电源的功率

DC reactor for rectifier in the DC circuit, the reactor after the output of the DC is closer to the ideal DC; for the inverter rectifier and inverter links between the input current to reduce the harmonic components, so that The inverter is running more stable, increasing the power factor of the input power supply and limiting the short circuit current.

产品特点Features

电抗器采用氮弧焊焊接工艺，噪音低、漏磁小、电感稳定。线圈采用箔绕工艺，瞬时过 载能力强，工艺完美，外观漂亮。铁芯采用优质高硅冷轧矽钢片使电抗器可靠性高，体积小，重量轻。

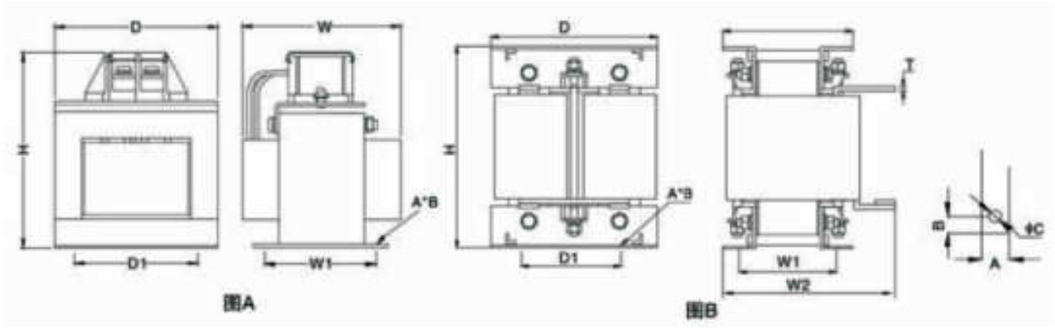
Reactor using argon arc welding process, low noise, small magnetic flux leakage, inductive stability. Coil with foil around the process, instantaneous overload capacity, process perfect, beautiful appearance. Core high-quality high-silicon cold-rolled silicon steel sheet so that the reactor reliability, small size, light weight.

技术参数 Technical Parameters

额定工作电压:DC500V-DC1000V
抗电强度:铁芯-绕组3000VAC/50Hz/5mA/10s无飞弧击穿（工厂测试）
绝缘电阻:1000VDC绝缘阻值3100M Q
电抗器噪音:小于65dB（与电抗器水平距离点1米测试）
防护等级:IP00
绝缘等级:F级以上
产品执行标准:GBT1094.6-2011电抗器
JB9644-1999半导体电气传动用电抗器

Dielectric strength: Core - Winding 3000VAC / 50Hz / 5mA / 10s No flashover (factory test)
Insulation resistance: 1000VDC Insulation resistance N 100M Q
Reactor noise: less than 65dB (1 meter test with quarrel horizontal distance)
Protection class: IP00
Insulation class: F level above
Product implementation standards: GBT1094.6-2011 reactor
Reactor for semiconductor electrical

外形及安装尺寸 Shape and installation dimensions



产品型号 Product Type	功率 Power (KW)	额定电流 Current Rated	电感量 Inductance Value (mH)	绝缘等级 Insulation Class	外形尺寸(+/-5 mm) Overall Dimentions						
					D	DI	W	W1	W2	H	A*B
LSDZ03-12A/6.3mH	3.7-4	12A	6.3mH	F、H	100	80	100	70	/	105	6*11
LSDZ03-23A/3.6mH	5.5-75	23A	3.6mH	F、H	105	86	100	70	/	135	6*12
LSDZ03-32A/2mH	11-15	32A	2mH	F、H	105	86	110	70	/	140	6*13
LSDZ03-40A/1.3mH	18.5	40A	1.3mH	F、H	105	86	110	70	/	140	6*14
LSDZ03-50A/1.08mH	22	50A	1.08mH	F、H	114	95	120	85	/	148	6*16
LSDZ03-65A/0.8mH	30	65A	0.8mH	F、H	135	110	130	85	/	175	8.5*13
LSDZ03-78A/0.7mH	37	78A	0.7mH	F、H	135	110	130	85	/	175	8.5*13
LSDZ03-95A/0.54mH	45	95A	0.54mH	F、H	135	110	125	85	/	175	9*18
LSDZ03-115A/0.45mH	55	115A	0.45mH	F、H	155	125	140	90	/	195	9*18

RXHG大功率绕线电阻High Power Wirewound Resistors



产品简述 Product Description

在圆柱的陶瓷管上固定了两个引出端子，瓷管表面上缠绕了扁带波浪形状的合金电阻丝，并在其表面涂覆一层具有阻燃，耐高温特性的涂层。陶瓷管作为电阻丝骨架的同时，又具有散热器的功效。本品可按客户的要求定制。本品适用于模拟负荷实验，设备放电，自动控制，变频器能耗制动等。

Tow terminal extensions are fixed on both end of a ceramic tube on whose surface winds wave-shaped alloy resistance wire and a high temperature-resistant and fireproof coating are applied. The ceramic tube can function as resistance wire skeleton and heat radiator as well. This product can be customized to special needs of customers and applicable to simulation load test, equipment discharge, automated control and inverter, senergy brake.

应用领域 Application area

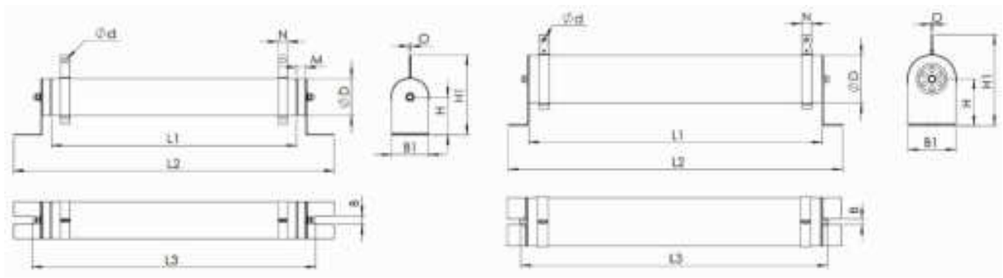
广泛应用于模拟负荷实验，设备放电，电梯等设备，变频器能耗制动。
Widely used in simulated load experiment, device power distribution, frequent converter braking.

产品特点Features

1适用于大功率电力设备的直流或交流低频交流电路
2.选用耐高温有机材料被覆
3.可做高电压等级
4.符合无铅/R o H S要求0

1.High-power equipment de or low frequency ac circuit
2.High-temperature organic material coating
3.High voltage level
4.Conforms to the rosh standard and the lead-free Non-lead standard

产品尺寸图Product Size



选型表 Selection Table

具体尺寸根据客户要求定制Customerized by requirement

功率 Power	类别 Style	L1 (±2)	L2 (±2)	L3 (±2)	D (±2)	尺寸 /Dimension(mm)								阻值范围 Resistance
						B	B1	H (±3)	H1	N	d	O	M	
40W	20X90	90	127	103	20	4.3	20	24	47	6	2.7	1	5	0.1Ω-10kΩ
50W	28X90	90	143	115	28	6.0	28	32	66	8	4.2	1	5.6	0.1Ω-10kΩ
80W	28X 140	140	193	165	28	6.0	28	32	66	8	4.2	1	5.6	0.1Ω-10kΩ
100W	28X167	167	220	192	28	6.0	28	32	66	8	4.2	1	5.6	0.1Ω-15kΩ
150W	28X215	215	268	240	28	6.0	28	32	66	8	4.2	1	5.6	0.1Ω-15kΩ
200W	28X267	267	320	292	28	6.0	28	32	66	8	4.2	1	5.6	0.1Ω-15kΩ
300W	40X265	265	309	284	40	9.0	40	40	85	10	5.7	1.2	-	0.1Ω-20kΩ
400W	40 X282	282	326	302	40	9.0	40	40	85	10	5.7	1.2	-	0.1Ω-20kΩ
500W	40 X330	330	374	349	40	9.0	40	40	85	10	5.7	1.2	-	0.1Ω-20kΩ
600W	50X330	330	370	347	50	7.0	50	41	97	15	6.5	2	-	0.1Ω-30kΩ
800W	60X330	330	379	344	60	8.0	60	58	119	15	6.5	2	-	0.1Ω-30kΩ
1000W	60X400	400	450	415	60	8.0	60	58	122	15	6.5	2	-	0.1Ω-40kΩ
1200W	60X430	430	480	452	60	8.0	60	58	122	15	6.5	2	-	0.1Ω-40kΩ
1500W	70X430	430	495	462	70	8.0	70	67	132	15	6.5	2	-	0.1Ω-50kΩ
2500W	80 X430	430	490	455	80	8.5	80	70	150	15	6.5	2	-	0.1Ω-50kΩ
3000W	90X430	430	490	455	90	9.0	90	76	150	15	6.5	2	-	0.1Ω-50kΩ
3500W	100X430	430	510	473	100	9.5	100	75	157	15	6.5	2	-	0.1Ω-50kΩ
4500W	100X540	540	620	583	100	9.5	100	75	157	15	6.5	2	-	0.1Ω-50kΩ
5500W	100X600	600	680	640	100	9.5	100	75	157	15	6.5	2	-	0.1Ω-50kΩ

型式Type


RXHG-B-M型


RXHG-D-M型


RXHG-E-M型

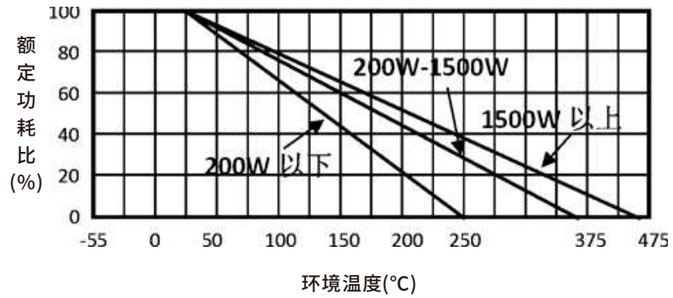

RXHG-M-C型


RXHG-P-C型


RXHG-W-M型

RXHG大功率绕线电阻High Power Wirewound Resistors

降额曲线 Derating Cruve



电气、机械特性 Mechanical And Electrical Properties

特性	测试方法	性能要求	试验标准
稳态湿热 Constant Damp heat	40℃相对湿度90% 96h Temperature 40℃ ,RH90% 96h	R≤±(5%±0.05Ω)	GB5729.2.24
温度快变化 Temperature change	-55 +55℃3次循环 -55 to +55 ℃ ,3 Circes	R≤±(2%±0.05Ω) 无可见损伤	GB5729.4.19
短时负荷 Transient Overload	10 倍 Pr 5S　10 Time Pr 5s	No visible destruction R≤±(2%±0.05Ω)	GB5729.4.13
绝缘电阻 Insulated Resistance	DC 1000V	R≥100MΩ	GB5729.4.6
耐电压 Voltage Resistibility	AC3000V 50Hz 5s	无击穿或飞弧 Free of breakage of flying arc	GB5729.4.7
负荷寿命 Life	25℃ Ur l000h	R≤20%	GB5729.4.25
端子强度 Terminal Strength	45N 30S	无可见损伤R≤±(1%±0.05Ω) No visible destruction	GB5729.4.16
电阻体强度 Resistor Strength	200N 30S	无可见损伤 Free if visible Destruction	GB5729.4.15
耐振性 Vibration Resistibility	f:5 -200Hz a=1.5g X.Y.Z 各 2h f:5-200Hz a=1.5g 2H for both X YZ	无可见损伤R≤±(1%±0.05Ω) Free of visible destruction	GB5729.4.22

型号说明 Type Specification

RXHG ↓	P ↓	M ↓	100W ↓	10R ↓	J ↓
产品类别 Style	绕线方式 Winding way	安装方式 Installation	功率 Power	成品阻值 Value	误差 Tolerance
RXHG 波纹绕线电阻器	P-平绕 B -波绕 M -无感平绕 W-无感波绕 D-多阻值型 E-可调电阻	M -支架型 S-无支架型 C-带瓷片支架 W-带瓷片无支架型	40W-40W 100W-100W 1000W-1000W 8000W-8000W	1R -1 G 10R -10Q IK -1KQ 50K -50KQ	F-±1% G-±2% J-±5%

RXLG大功率铝壳电阻
High Power Aluminum Case Wire-wound Resistors

产品简述 Product Description



RXLG系列铝壳电阻耐气候性、耐振动、安全性、优于传统瓷骨架电阻器，是　一用一种耐高温的有机硅树脂和硅粉作基本材料封装的功率型绕线电阻，易紧密 安装，易附加散热器。广泛应用于电源、变频器、伺服系统等高要求的电器回 路中，并且适用于恶劣的工控环境，是电力、电子理想的配套产品。本品还可　按照客户的要求定制；同时也可以做成铝壳无感电阻器、功率段30W-2000W ,立式/卧式安装均可自行选择。

High power aluminum case wire-wound resistors is the type winding resistors which installs and attaches to the radiator easily, packed by the anti-high temperature silicone resin and silicone powder that used as the basic material. With the anti-weather &vibration and high safe quality, rxlg resistors is superior to the traditional porcelain skeleton one. This resistors is the ideal electronic accessory product which adapts the harsh industrial environment and widely used in the electrical circuit with high requirements, such as power supply, inverter, servo systems and so on. The resistors can be customized according to customer, s requirement as well. For example, it is able to customized the one without sense resistor that the range of power section is from 30w to 2000w, vertical/horizontal installation optional.

应用领域 Application area

广泛应用于电源，变频器，伺服系统等高要求的电气回路中，并能够用于恶劣的工作环境。

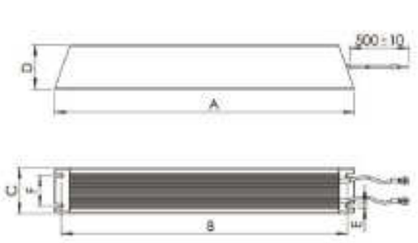
Widely used in high demand electrical circuits, such as power source, frequent converter, servo system etc, and can be used in worst environment.

产品特点Features

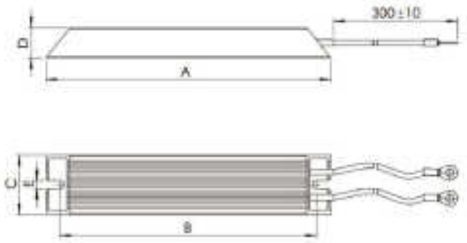
1、体积小且功率大，优于传统瓷骨架电阻
2、结构坚固，稳定性高
3、铝制外壳散热，适用于散热板安装
4、硅铜膜压成型，绝缘性能好

1.small size, high power rating, better than traditional porcelain skeleton resistor
2.strong construction, high stability
3.aluminum case for dissipating heat, compliant to cooling pad installation
4.silicone membrane forming, good insulation properties

产品尺寸图Product Size



Picture A



Picture B

RXLG大功率铝壳电阻

High Power Aluminum Case Wire-wound Resistors

选型表 Selection Table

具体尺寸根据客户要求定制　Customerized by requirement

功率Power	尺寸 /Dimension(mm)						配线 mm²	端子	阻值范围 Resistance	图面Picture
	A±2	B±2	C±1	D±1	E±1	F±1				
RXLG 25 3060 W	115	96	40	20	5.5		1.5	2.5-5S	0.1 Ω-I0kΩ	Picture A
RXLG 80W	140	121	40	20	5.5		1.5	2.5-5S	0.1 Ω-I0kΩ	Picture A
RXLG 1 00W	165	146	40	20	5.5		1.5	2.5-5S	0.1 Ω-I0kΩ	Picture A
RXLG 120W	190	171	40	20	5.5		1.5	2.5-5S	0.1 Ω-I0kΩ	Picture A
RXLG 150W	215	196	40	20	5.5		1.5	2.5-5S	0.1 Ω-I0kΩ	Picture A
RXLG 200W	165	146	60	30	5.5		1.5	2.5-5S	0.1 Ω-I0kΩ	Picture A
RXLG 300W	215	196	60	30	5.5		1.5	2.5-5S	0.1 Ω-I0kΩ	Picture A
RXLG 400W	265	246	60	30	5.5		1.5	2.5-5S	0.1 Ω-I0kΩ	Picture A
RXLG 500W	335	316	60	30	5.5		1.5	2.5-5S	0.1 Ω-I0kΩ	Picture A
RXLG 800W	400	381	61	59	5.5	40	2.5	3.5-6S	0.1 Ω-I0kΩ	Picture B
RXLG 1000W	400	382	50	108	5.5	30	2.5	3.5-7S	0.1 Ω-I0kΩ	Picture B
RXLG 1200W	450	432	50	108	5.5	30	2.5	3.5 -8S	0.1 Ω-I0kΩ	Picture B
RXLG 1500W	485	467	50	108	5.5	30	2.5	3.5-9S	0.1 Ω-I0kΩ	Picture B
RXLG 2000W	650	632	50	108	5.5	30	2.5	3.5-10S	0.1 Ω-I00kΩ	Picture B

型式Type



RXLG-T-Y 型

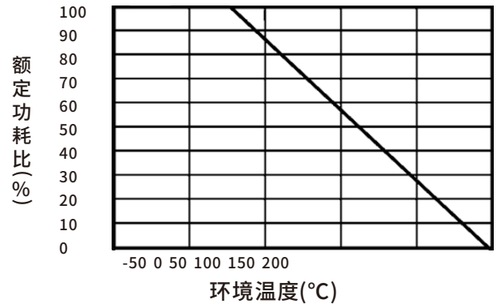


RXLG-T-M 型



RXLG-F-Y 型

降额曲线 Derating



电气、机械特性 Mechanical And Electrical Properties

特性 Property	测试方法 Inspection method	性能要求 Requirement	试验标准 Test method
阻值和误差 Resistance value and tolerance	常温测试 Normal temperature test	ΔR≤±5%	GB5729.4.5
短时间过负荷 Transient Overload	5 倍 Pr 5S 5 Time Pr 5s	无可见损伤R≤±(2%±0.05Ω) No visible destruction	GB5729.4.13
温度系数 Temperature Coefficient	实验温度：室温+100 Ω Test temperature: indoors Temp.+100	α≤ ±300 PPM/P	GB5729. 4.8
绝缘电阻 Insulation Resistance	直流电压1000V	R ≥100MQ/1Min	GB5729.4.6
耐电压 Voltage Resistibility	AC3000V 5 0HzIMin	无击穿或飞弧 Free of breakage of flying arc	GB5729.4.7
耐振性 Vibration Resistibility	f:5-200Hz a=1.5gX.YZ 各 2h f:5 -200Hz a= 1.5g 2H for both XYZ	无可见损伤R≤±(1%±0.05Ω) Free of visible destruction	GB5729.4.22
稳态湿热 Constant Damp -heat	40℃相对湿度90% 96h Temperature 40 ℃ , RH90% 96h	R≤±(5%±0.05Ω)	GB5729.2.24
温度快变化 Temperature change	-55 +55℃ 3次循环 -55 to +55 ℃ ,3 Circes	R≤±(2%±0.05Ω)	GB5729.4.19
端子强度 Terminal Strength	45N　30S	无可见损伤 R≤±(1%±0.05Ω) No visible destruction	GB5729.4.16

型号说明 Type

RXLG ↓	T ↓	M ↓	100W ↓	10R ↓	J ↓
产品类别 Style	绕线方式 Winding way	安装方式 Installation	功率 Power	成品阻值 Value	误差 Tolerance
RXLG铝壳电阻	T -梯形式 S -船形式	M -端子式 Y-引线式	40W-40W 100W-100W 1000W-1000W 8000W-8000W	1R - 1 Ω 10R - 10ΩIK - 1KΩ 50K - 50KΩ	F-±1% G - ±2% J-±5%

KAL金黄色铝壳电阻 Golden Aluminum Case Resistors

产品简述 Product Description



KAL黄金铝壳电阻外壳采用铝合金制造，表面具有散热沟槽，具有体积小、功 率大、耐高温、过载能力强、耐气候性、高精度、高稳定、强构架特性，有利 于机械保护、安装方便。黄金铝壳电阻由于精度小，温度系数稳定，也是电流 感测电阻，标准低电感电阻，高精密电阻器最理想的选择；广泛用于电源、变 频器、电梯、工控、舞台音响、伺服及高要求设备行业。

Golden aluminum case resistors has the cooling groove on the aluminum alloy covering surface. It is conducive to mechanical protection and convenient installation with small size, high power, anti-high temperature quality, overload capacity, weather resistance, high precision, high stability, strong frame characteristics, li is also the ideal choice for current sensing resistor, standard low-inductance resistors and high-precision resistors with the accurate quality and stable temperature coefficient. It is widely used in power supply, frequency converter, elevator, industrial control, stage control, high-precision resistors and so on.

应用领域 Application Area

广泛应用于电源，变频器，伺服系统等高要求的电气回路中，并能够用于恶劣的工作环境。

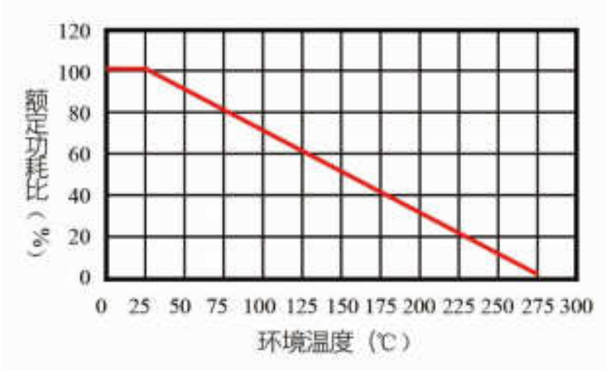
Widely used in high demand electrical circuits, such as power source, frequent converter, servo system etc, and an be used in worst environment.

产品特点Features

1、体积小且功率大，优于传统瓷骨架电阻；
2、结构坚固，稳定性高
3、铝制外壳散热，适用于散热板安装
4、硅铜膜压成型，绝缘性能好
5、符合无铅/rosh要求

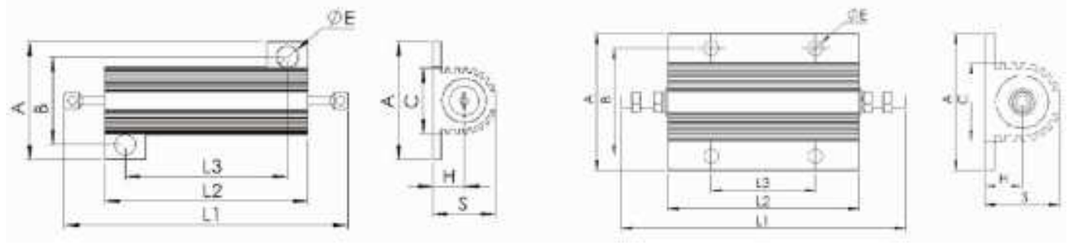
1. small size, high power rating, better than traditional porcelain skeleton resistor
2.strong construction, high stability
3.aluminum case for dissipating heat, compliant to cooling pad installation
4.silicone membrane forming, good insulation properties
5.conforms to the rosh standard and the lead-free non-lead standard

降额曲线 Derating Cruve



选型表 Selection Table

具体尺寸根据客户要求定制Custome「ized By Requirement



型号 tyle	尺寸 /Dimension(mm)									图面Picture
	L1±2	L2±1	L3±1	A±1	B±1	C±1	Ezt0.3	S±1	HdO.5	
KAL 5	37	15	11	16	12	9.5	2.5	8	3.8	Picture A
KAL 10	41	20	13	22	13	10.5	3	10.5	5	Picture A
KAL 25	49	28	18	27	18	13.5	3.2	14	6.5	Picture A
KAL 35	53	33	23	29	23	15	3.2	15.5	7	Picture A
KAL 50	70	50	40	29	40	15	3.2	15.5	7	Picture A
KAL 75	106	66	37(2 JL)	48	37	26.5	5	26	11.5	Picture B
KAL 100	138	98	72	48	37	26.5	5	26	11.5	Picture B
KAL 150	176	136	112	48	37	26.5	5	26	11.5	Picture B
KAL 200	195	155	126	48	37	26.5	5	26	11.5	Picture B
KAL 300	168	128	104	72	58	45	5	45	21	Picture B

型式Type



KAL-T-M



KAL-T-Y



KAL-S-M

KAL金黄色铝壳电阻 Colden Aluminum Case Resistors

技术说明 Technical Specifcations

型号 Style	额定功率Power (W)		阻值范围Resistance(Q)		最高工作电压MWV(V)		散热板面积Acreage		重量 Weight(g)
	带散热板	不带散热板	KAL	NKAL(无感)	KAL	NKAL(无感)	表面积(cm^2)	厚度(mm)	
KAL 10	10	8	0.02-6K	0.03-2.3K	245	180	415	1	6
KAL 25	25	13	0.012-15K	0.02-5.5K	500	300	535	1	11
KAL 50	50	20	0.01 -40K	0.02-12K	1300	600	995	1	30
KALS 0	80	45	0.1 -3.0K	0.1 -3.0K	1500	1000	995	3	90
KAL 100	100	50	0.4-50K	0.12-25K	1900	1340	995	3	160
KAL 250	250	60	0.6-80K	0.15-40K	2500	1750	4765	3	480
KAL 300	300	70	0.6-90K	0.15-50K	2500	1750	4765	3	550

电气、机械特性 Mechanical And Electrical Properties

特性 Property	测试方法 Inspection method	性能要求 Requirement	试验标准 Test method
阻值和误差Resistance value and tolerance	常温测试 Normal temperature test	ΔR≤±5%	GB5729.4.5
短时间过负荷 Transient Overload	2.5倍Pr5S 2.5 Time Pr 5s	无可见损伤R≤±(1%±0.05Ω) No visible destruction	GB5729.4.13
温度系数 Temperature Coefficient	实验温度:室温+100°C Test temperature:indoors Temp.+100°C	α≤±200 PPM/°C;	GB5729.4.8
绝缘电阻 Insulation Resistance	直流电压1000V	R≥100MΩ/1Min	GB5729.4.6
耐电压 Voltage Resistitbity	AC 500 V50Hz 1Min	无击穿或飞弧 Free of breakage of flying arc	GB5729.4.7
耐振性 Vibration Resistibility	f:5 -200Hz a=1.5g X.YZ各2h f:5-200Hz a=1.5g 2H for both X YZ	无可见损伤R≤±(1%±0.05Ω) Free of visible destruction	GB5729.4.22
稳态湿热 Constant Dampheat	40°C 相对湿度90 % 96h Temperature 40°C,RH90% 96h	R≤±(5%±0.05Ω)	GB5729.2.24
温度快变化 Temperature change	-55 +55°C 3次循环 -55 to +55°C,3 Circes	R≤±(2%±0.05Ω)	GB5729.4.19
可焊锡性 Solder ability	焊锡温度235 ±5°C,2±0.5s 235±5°C for 2±0.5 seconds	吃锡面积95%以上 At least 95% coverage	GB5729.4.17

型号说明 Type Specification

KAL ↓	T ↓	M ↓	10W ↓	10R ↓	J ↓
产品类别 Style	小分类 Small classification	安装方式 Installation	功率 Power	成品阻值 Value	误差 Tolerance
KAL 金黄色铝壳电阻 NKAL无感金黄色铝壳电阻	T-单边安装孔式 S-双边安装孔式	M -端子式 Y-引线式	50W-50W 100W-100W 300W-300W	1R - IΩ 10R - 10Ω 1K - 1KΩ 50K - 50KΩ	F - ±1% G - ±2% J - ±5%

RXMT金属管电阻 Metal tube resistor

产品简述 Product Description

金属管电阻耐气候性、耐振动、安全性、散热性能好，能承受高功率且体积小，优于传统瓷骨架电阻器，是用一种耐 高温的有机硅树脂和硅粉作基本材料封装的功率型电阻器，易紧密安装。广泛应用于电源、变频器、伺服系统等高要 求的电器回路中，并且适用于恶劣的工控环境，是电力、电子理想的配套产品。本品还可按照客户的要求定制，通过 改变金属管的数量实现不同功率阻值的电阻箱。

Metal tube resistance is a kind power-type resistor which installs and attaches to the radiator easily, packed by the anti-high temperature silicone resin and silicone powder that used as the basic material. With the anti-weather, vibration and high safe quality, heat dissipation, can withstand high power and small size, better than the traditional porcelain skeleton resistor. This resistors is the ideal electronic accessory product which adapts the harsh industrial environment and widely used in the electrical circuit with high requirements, such as power supply, inverter, servo systems and so on. The resistors can be customized according to customer* s requirement as well, by changing the number of metal tubes to achieve different power resistance of the resistance box.

应用领域 Application Area

广泛地应用于试验测试设备、电梯、港口机械、起重机械、建筑机械、发电机、变频器、起动、制动等领域。

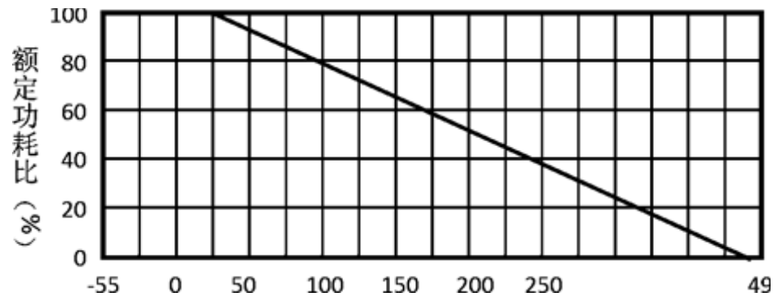
Widely used in test and test equipment, elevators, port machinery, lifting machinery, construction machinery, generators, frequency converters, starting, braking and other fields.

产品特点Features

1、功率大，体积小
2、金属管结构，散热性能好
3、结构牢靠，抗震性强
4、符合无铅/「osh要求

1.small size, high power rating
2.metal tube structure, good heat dissipation
3.strong construction, high stability
4.conforms to the rosh standard and the lead-free non-lead standard

降额曲线 Derating Cruve

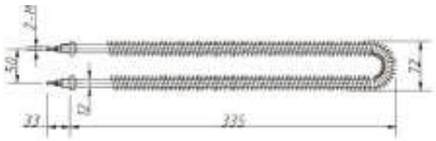


RXMT金属管电阻 Metal tube resistor

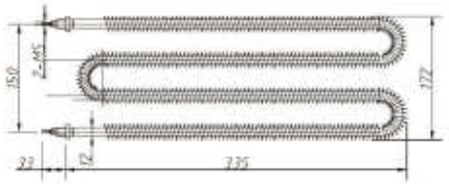
产品尺寸图Product Size



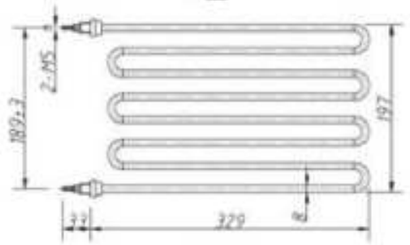
直型



U型



双U型



四U型

双u型

选型表 Selection Table

具体尺寸根据客户要求定制 Customerized by requirement

功率 Power	尺寸 /Dimension(mm)	
	类型	阻值范围Resistance
RXMT 500W	直型	10 Ω-180Ω
RXMT 1000W	U型	20 Ω -360Ω
RXMT 1500W	双U型	30 Ω-540Ω
RXMT 2000W	四u型	40Ω-720 Ω
RXMT 2500W	四U型	40 Ω-720 Ω

型式Type



500W 1000W 1500W 2000W-2500W

型号说明 Type Specification

RXMT ↓	2KW ↓	10R ↓	J ↓
产品类别Style	功率Power	成品阻值Value	误差Tolerance
RXMT 金属管电阻	1 000 W - 1 000 W 5000 W - 5000 W	1R - 1 Ω 1K - 1000 Ω	F - ±1% J - ±5% G - ±2%

电气规格 Electrical Specifications

项目 Items	标准值 Standard
功率范围Power range	500W -2500 W
电压范围foltage range	0-3kV
阻值范围Wlue range	3Ω-180 Ω
阻值精度Tolerance	±1、±2、±5
耐压 Dielectric strength	2.5kV 1min 50Hz
绝缘电阻Insulation resistance	20MΩ 1 min
IP等级IP class	IP 23W
额定温升Rated temperature rise	≤4800℃
温漂 Temperature drift	≤400 ppm/℃
振动 Vibration	F：5-200Hz a=0.5g X.Y 各 2H (2H for both X and Y)

BRB制动电阻 Braking Resistors

产品简述 Product Description



BRB系列制动电阻单元的作用是针对电机马达在减速过程中产生的再生能量，以耗能的形式消耗在制动电阻上，从而发挥变频器的制动性能以及缩短变频器的制动时间；主要用在变频器拖动系统需要急剧减速、刹车、定位等场合；变频器在减速时，由于拖动系统的惯性较大，此时电动机处于发电状态，机械能快速回馈到直流母线上，使直流母线电压迅速上升，从而危及变频器的安全，因此必须将该回馈能量迅速消耗掉，保持直流母线电压在某一安全范围以下，否则变频器将会过压保护或故障。一般惯性较大，或需急剧减速，刹车的场合可使用该制动单元。

Braking resistors aims at consuming the renewable energy which produced by motor in the process of decelerating, thereby realizes the braking performance of the converter and reduce its braking time. It is mainly used in the occasions that the converter drive system needs to be decelerated sharply, braked or positioned. The reason why needs to consume the renewable energy rapidly is that when the converter decelerates, the motor is in the state of power generation at the same time, the mechanical energy goes back to the de bus rapidly due to the system, s inertia which caused the de bus voltage to rise rapidly and endanger the safety of the converter. Therefore it needs to consume the renewable energy rapidly and keep the de bus voltage below the certain safe range, or the converter will be damaged or over-voltage protection. The resistors is generally use in the occasion which has the much more momentum or need to be decelerated /braked sharply.

应用领域 Application Area

适用于大功率，大电流的制动设备，试验测试设备，电梯，港口机械，起重等变频器的能耗制动回路中，是将电 机的再生能量以热能方式消耗的载体。

For the high-power, high current brake equipment, test and test equipment, elevators, port machinery, lifting and other energy consumption of the inverter brake circuit, the motor is the regenerative energy consumption of the carrier.

产品特点Features

1、功率大，体积小
2、温升低，阻值变化率小
3、结构牢靠，抗震性强
4、电阻原件多样化：绕线电阻、铝壳电阻、金属导管电阻、螺纹绕线电阻、不锈钢片状等大功率电阻

1.small size, high power rating
2.low temperature rise；resistance changes small
3.strong construction, high stability
4.resistance component diversification：kinds of large power resistor are available, such as wire wound resistor, metal condui

选型表 Selection Table

额定功率 Power(kW)	箱体尺寸 Housing Dimensions			底部安装尺寸 Bottom i nstallation
	长 L(mm)	宽 W(mm)	高 H(mm)	
1-10	430	702	560	395X 600; Φ31
10-15	520	702	560	485X 600; Φ31
16-20	640	702	560	605X 600; Φ11
21-25	750	702	560	715X 600; Φ11
26-28	820	702	560	785X 600; Φ11
29-40	640	702	910	605X 600; Φ11
41-50	750	702	910	715X 600;Φ11
51-56	820	702	910	785X 600;Φ11
57-75	750	702	1260	715X 600; Φ11
76-84	820	702	1260	785X 600; Φ11
85-112	820	702	1610	785X 600; Φ11

绕线电阻型 Wire-Wound Resistor



3000W



8000W



15000W



5000W



12000W

BRB制动电阻 Braking Resistors

铝壳电阻型 Braking Resistors Type



2000W



8000W



12000W

型号说明 Type Specification

RXMT ↓	H ↓	2KW ↓	10R ↓	J ↓
产品类别 Style	产品形式 Type	功率 Power	成品阻值 Value	误差 Tolerance
BRB 制动电阻箱	H-绕线电阻型 L-铝壳电阻型 M-金属管电阻型	2Kw-2Kw 5Kw-5Kw 10Kw10Kw 15Kw-15Kw	1R - 1Ω 10R - 10Ω IK - 1KΩ 50K -50KΩ	F- ±1% G- ±2% J- ±5%

金属管电阻型 Metal Tube Resistor TYPE



2500W



5500W



8000W



11000W