

伊戈尔电气股份有限公司
EAGLERISE ELECTRIC&ELECTRONIC (CHINA) CO.,LTD.

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工控行业用电源&电抗器
Power supply & Reactor for Industrial Control

2014



公司简介

Company profile

伊戈尔电气股份有限公司始创于二十世纪九十年代，现有4个生产基地，3个研发中心，拥有标准厂房9万平方米，员工约2100余人，是一家致力于向全球市场提供变压器产品、成套电源产品及变压器铁芯组件的专业供应商，主要产品系列有电感模式电源产品、电子模式电源产品、特种变压器、电力变压器及变压器铁芯组件等五大类，三百余个品种，广泛应用于照明、电力、新能源、工控等行业。伊戈尔电气坚持以市场为导向，以客户为中心，在中国北京、上海、日本、美国、德国、孟加拉分别设有驻外机构，在全球范围内围绕着有价值的客户群，建立并发展着互惠互利的良好合作关系。

Eaglerise Electric & Electronic (China) Co., Ltd. was first established in 1990s in Foshan, China. Now we have 4 production bases, 3 R&D centers, 90,000 square meters manufacturing plant and about 2100 employees. Our mission is to provide our quality transformers, power supplies and core of transformer to the global market. Our main product lines include 5 major categories and over 300 models covering electromagnetic mode product, electronic mode power supply, special type transformer, power transformer, transformer metal cores. The applications cover lighting, new energy, electricity utility, industrial control, etc. To follow markets and focus on customers, Eaglerise opened its sales and marketing branches in Beijing, Shanghai, Japan, USA, Germany and Bangladesh. Eaglerise is proud of being a valuable and loyal cooperator to all its customers, suppliers and business partners.

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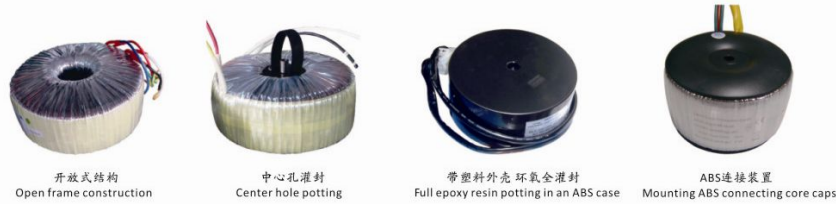
佛山·顺德工厂 Foshan Shunde Production Base



佛山·禅城工厂 Foshan Chancheng Production Base



孟加拉·达卡工厂 Dhaka, Bangladesh Production Base



工业控制用环型变压器

Toroidal Transformer For Industrial Control Appliance

产品特点

在设计和生产各种环形变压器方面，拥有超过20年的经验，产品功率覆盖15VA-5000VA。产品品质精良，生产过程严格按照EN61558(VDE0570)/UL506/UL60601标准进行测试。

标准环形变压器为开放式结构，根据客户需求将引线接在指定的端子或连接器上，使用螺栓、金属环牛盖、橡胶垫来安装，或者采用变压器中心孔灌封方式安装。根据客户的使用要求，选择安装温度开关或是保险丝，使变压器具有过压和短路保护功能。除了这些标准性能，我们还可以根据客户需求定制各种环型变压器。

应用范围：自动化及传动系统，安防系统，电梯控制器，医疗测试设备及医疗器械，包装器械，其他工业控制类设备仪器。

Feature

With more than 20 years of experience, Eaglerise can design and manufacture various types of toroidal transformers in power range from 15VA to 5000VA with high quality and strict testing according to the standards EN 61558 (VDE 0570), UL 506 and UL 60601.

Eaglerise toroidal transformers of standard versions are performed in an open construction. As per customers' request, the lead wires can be installed in the specified terminals or connectors; the transformers can be fixed by bolt, metal washer, rubber pad or in the way of center hole potting. The over voltage and short circuit protection with temperature switch or fuse can be equipped on customers' request. Besides the standard versions, we can also offer various types of customized transformers for different applications.

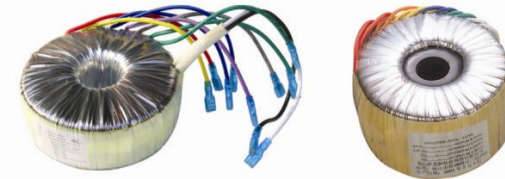
Application: Automation & Actuator System, Security System, Elevator controller, Medical Test Equipment & Instruments, Packing Machine, Other Industrial Control Area.

标准和认证 Standard and Approval

功率范围 Power Range	标准 Standard	认证 Approval	绝缘等级 Insulation Cl.
20-5000VA	UL506	UL	B/130
50-1000VA	UL5085-1	UL	B/130
40-2000VA	UL5085-2	UL	B/130
40-1000VA	UL60601-2	UL	B/130
10-4840VA	EN61558-1	CE	B/130
10-4840VA	EN61558-2-4	CE	B/130
10-5000VA	GB19212.1	CQC	B/130
10-5000VA	GB19212.5	CQC	B/130
15-10000VA	Customized	On request	B/130

所有的灌封材料都通过了UL认证(UL QMFZ8.E56070).
All potting compounds are released by UL (UL QMFZ8.E56070).

以上数值仅为标准值供参考，可根据客户要求定做。
These data of this table are typical values of standard versions. Other various types are available on customer's request.



音响用环型变压器

Toroidal Transformer For Audio Appliance

产品特点

按应用分，音响类变压器有电源和音频输出两类。在设计和选材上，针对音响产品的使用特性，在满足安规要求的前提下，特地控制变压器的磁漏，配合音响产品达到完美音效。在专业功放方面，设计上能达到同时满足高频峰值输出和平稳常态输出的双项要求。

伊戈尔同时开发有铝线绕制的环型变压器，该系列变压器在成本上有较明显的优势。

Feature

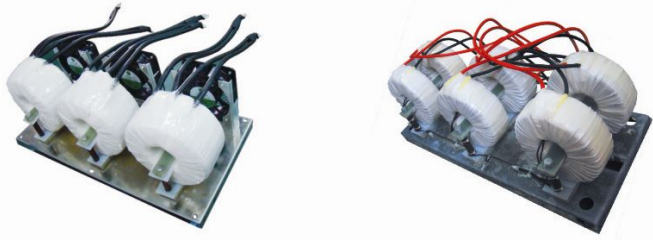
Classified by application, toroidal transformers for audio appliance include power transformer and audio transformer. From the design and selecting material, under the premise of safety standard, we hereby control magnetic flux leakage of transformer according to audio appliance characters to make audio appliance achieve perfect sound. In the professional power amplifier, our transformer can simultaneously meet the peak output and normal output requirements.

Eaglerise also provides aluminum winding toroidal transformer with outstanding advantage in cost.

标准和认证 Standard and Approval

功率范围 Power Range	标准 Standard	认证 Approval	绝缘等级 Insulation Cl.
20-5000VA	UL506	UL	UL
50-1000VA	UL5085-1	UL	UL
40-2000VA	UL5085-2	UL	UL
10-4840VA	EN61558-1	CE	CE
10-5000VA	GB19212.1	CQC	CQC
10-5000VA	GB19212.5	CQC	CQC

以上数值仅为标准值供参考，可根据客户要求定做。
These data of this table are typical values of standard versions. Other various types are available on customer's request.



电感

Inductor Set

产品特点

将脉宽调制波形由脉冲波形转换为近似正弦波形。电感器的结构类似于变压器，但只有一个绕组。其主要作用在于稳定电流、筛选信号、过滤噪声、抑制电磁波干扰等重要作用。

可与变速传动装置结合使用，广泛运用在电动潜水及油泵产品及其他工业控制领域中。

Feature

Converting the PWM waveform from a pulsed waveform to a near-sinusoidal waveform. The inductor is similar to toroidal transformer, with only one winding. The main function of the inductor is to stabilize the current, select the signal, filter noise and suppress electromagnetic wave interference.

Application: To be used in conjunction with pulse width modulated variable speed drives for electric submersible pumping applications. Other industrial control areas.

技术规格 Technical Data of Standard Implementation

电流 Current	电容容量 Power of Capacitor	最大损耗 Max. Loss	最大电感值 L-max (5.5%)	安装场所 Location	冷却 Cooling
125 A	104 kVA	500 W	560 μ H	Internal	Axial Fans
130 A	116 kVA	560 W	500 μ H	Internal	Axial Fans
180 A	150 kVA	720 W	390 μ H	Internal	Axial Fans
208 A	173 kVA	830 W	340 μ H	Internal	Axial Fans
240 A	200 kVA	960 W	290 μ H	Internal	Axial Fans
250 A	208 kVA	1000 W	280 μ H	Internal	Axial Fans
304 A	253 kVA	1220 W	230 μ H	Internal	Axial Fans
362 A	301 kVA	1450 W	195 μ H	Internal	Axial Fans
414 A	344 kVA	1660 W	170 μ H	Internal	Centrifugal Blower
515 A	428 kVA	2070 W	135 μ H	Internal	Centrifugal Blower
675 A	561 kVA	2700 W	105 μ H	Internal	Centrifugal Blower

以上数值仅为标准值供参考，可根据客户要求定做。
These data of this table are typical values of standard versions. Other various types are available on customer's request.



方型变压器

EI Transformer

产品特点

与环形变压器相比，方型变压器主要由磁芯和叠片型号限定尺寸及功率段，经由安装条，配用在设备上。伊戈尔严格控制产品品质，方型变压器产品功率覆盖5VA-1000VA，并根据客户要求订制配件及尺寸，选择安装温度开关或者保险丝为变压器提供充足的安全保护。该系列产品可根据客户要求订制。

主要片规：EI148.57.66.76.86.96.114.133。

应用范围：音响及家用电器，自动化及传动系统，安防系统，电梯控制器，医疗测试设备及医疗器械，包装器械，其他工业控制类设备仪器。

Feature

Compared with Toroidal transformer, EI transformer mainly composed by bobbin and lamination according to different power range. It is settled down by bracket on applications. Eaglerise design all models according to clients' requirements, use thermal switch or fuse for over voltage and short circuit protection, produce EI transformer in power range from 5VA to 1000VA and careful testing.

Application: Audio Appliance, Automation & Actuator System, Security System, Elevator controller, Medical Test Equipment & Instruments, Packing Machine, Other Industrial Control Area.

标准和认证 Standard and Approval

功率范围 Power Range	标准 Standard	认证 Approval	绝缘等级 Insulation Cl.
1-300VA	GB19212.7/GB19212.1	CQC	B/130
10-600VA	UL5085-1/UL5085-2	CE	H/180
75-1000VA	EN61558-2-6	CQC	B/130

以上数值仅为标准值供参考，可根据客户要求定做。
These data of this table are typical values of standard versions. Other various types are available on customer's request.



防水变压器

Waterproof Outdoor Adaptor

产品特点

户外防水适配器为我司申请专利外观设计的明星产品之一，严格依照EN61558-2-6:1997，以及EN61558-1:1997+A11:03标准设计制造。品质控制精良，性能稳定，经久耐用，拥有极佳的IP64/IP66防水效果。产品应用环氧树脂灌封，既确保了完好的密封性，又能达到更加稳定的降温效果。该系列产品GS认证覆盖功率范围105VA-500VA。

应用范围：各项户外设备，尤其多用于泳池净化设备，氯化器，户外安防系统。

Feature

The Waterproof Outdoor Adaptor is one of the most popular products, which have the patent licence for the appearance design. They are designed and processed strict according to the Standard EN61558-2-6:1997+A11:03. High quality control can guarantee this series with outstanding performance and longer life time. They perform well with IP64/IP66 waterproof function. All of them are sealed with epoxy material, with lower temperature rise to keep the stable use.

Our GS certification of this series can cover the products with power range 105VA to 500VA.

Application: Widely used in all kinds of outdoor appliance, especially for Swimming Pool Equipment, Chlorinator, and Outdoor Security System.

技术规格 Technical Data of Standard Implementation

产品型号 Model	额定功率 Rated Power (W)	输入电压 Input Voltage (V)	输出电压 Output Voltage (V)	外形尺寸Dimension(mm)							重量 Weight (kg)	产品认证 Approval
				A	B	H	C	E	D	d		
HBW-105A(B)	105	220-240	24V(12V)	195	110	60	175	90	124	8	2.3	GS
HBW-105A(B)	150	220-240	24V(12V)	195	110	60	175	90	124	8	2.6	GS
HBW-180A(B)	180	220-240	24V(12V)	195	110	60	175	90	124	8	2.9	GS
HBW-200A(B)	200	220-240	24V(12V)	210	110	70	190	90	138	8	3.5	GS
HBW-250A(B)	250	220-240	24V(12V)	210	110	70	190	90	138	8	3.7	GS
HBW-300A(B)	300	220-240	24V(12V)	210	110	70	190	90	138	8	4.2	GS
HBW-350A(B)	350	220-240	24V(12V)	210	110	80	190	90	138	8	4.6	GS
HBW-400A(B)	400	220-240	24V(12V)	225	120	80	205	100	152	10	5.5	GS
HBW-450A(B)	450	220-240	24V(12V)	225	120	80	205	100	152	10	5.7	GS
HBW-500A(B)	500	220-240	24V(12V)	225	120	80	205	100	152	10	6.0	GS

以上数值仅为标准值供参考，可根据客户要求定做。

These data of this table are typical values of standard versions. Other various types are available on customer's request.



导轨式开关电源 (EPS系列)

Din Rail Switching Power Supply (EPS Series)

产品特点

- 空气自冷式/有PFC功能
- 短路保护/过压保护/过载保护/过温保护
- 3年产品品质保证
- 安全标准：UL60950 EN60950
- 传导与辐射干扰：EN55011 Class B, EN55022 Class B
- 抗干扰：EN55024, EN61000-6-2

Feature

- Naturally Air-cooled/With P.F.C Function
- Protections: Short Circuit/Over Voltage Over load/Over Temperature
- 3 years Product Warranty
- Safety Standards: UL60950 EN60950
- EMI: EN55011 Class B EN55022 Class B
- EMS: EN55024, EN61000-6-2

技术规格 Technical Data of Standard Implementation

型号 Model	输入 Input (V)	输出 DC Output (V)		电压精度 Voltage Accuracy	纹波与噪音 R&N	效率 Efficiency	尺寸 Dimension (L*W*H)(mm)
EPS060-12	90-264VAC 120-370VDC	12V	5A	±1%	100mV	82%	130x50x90
EPS060-24		24V	2.5A	±1%	120mV	84%	
EPS060-48		48V	1.3A	±1%	120mV	85%	
EPS120-12		12V	10A	±1%	100mV	86%	130x50x90
EPS120-24		24V	5A	±1%	100mV	87%	
EPS120-48		48V	2.5A	±1%	150mV	88%	
EPS240-12		12V	20A	±1%	100mV	85%	130x50x90
EPS240-24		24V	10A	±1%	100mV	86%	
EPS240-48		48V	5A	±1%	150mV	87%	

以上数值仅为标准值供参考，可根据客户要求定做。

These data of this table are typical values of standard versions. Other various types are available on customer's request.



开放式开关电源 (ESO系列)

Open Frame Switching Power Supply (ESO Series)

产品特点

- 空气自冷式
- 短路保护/过压保护/过载保护
- 2年产品品质保证
- 安全标准: UL60950-1, EN60950-1
- 传导与辐射干扰: EN55022 Class B
- 抗干扰: EN55024, EN61000-4-2

Feature

- Naturally Air-cooled
- Protections: Short Circuit/Over Load /Over Voltage
- 2 years Product Warranty
- Safety Standards: UL60950-1, EN60950-1
- EMI: EN55022 Class B
- EMS: EN55024, EN61000-4-2

技术规格 Technical Data of Standard Implementation

型号 Model	输入 Input (V)	输出 DC Output (V)	电压精度 Voltage Accuracy	纹波与噪音 R&N	效率 Efficiency	尺寸 Dimension (L*W*H)(mm)
ESO035-12	90-264VAC 120-370VDC	12V	3A	±1%	100mV	82%
ESO035-24		24V	1.5A	±1%	120mV	84%
ESO035-48		48V	0.75A	±1%	200mV	85%
ESO065-12		12V	5.5A	±1%	100mV	82%
ESO065-24		24V	2.7A	±1%	120mV	85%
ESO065-48		48V	1.35A	±1%	200mV	86%

以上数值仅为标准值供参考, 可根据客户要求定做。
These data of this table are typical values of standard versions. Other various types are available on customer's request.



封闭式开关电源 (ESE系列)

Enclosed Switching Power Supply (ESE Series)

产品特点

- 空气自冷式
- 短路保护/过压保护/过温保护
- 2年产品品质保证
- 安全标准: UL60950, EN60950
- 传导与辐射干扰: EN55011 Class B, EN55022 Class B
- 抗干扰: EN55024, EN61000-4-2

Feature

- Naturally Air-cooled
- Protections: Short Circuit/Over Load /Over Voltage
- 2 years Product Warranty
- Safety Standards: UL60950-1, EN60950-1
- EMI: EN55022 Class B
- EMS: EN55024, EN61000-4-2

技术规格 Technical Data of Standard Implementation

型号 Model	功率 Rated Power (W)	输入 Input (V)	输出 DC Output (V)	电压精度 Voltage Accuracy	纹波与噪音 R&N	效率 Efficiency	尺寸 Dimension (L*W*H)(mm)
ESE060-12/24/48	60	90-264VAC 120-370VDC	12V/24V/48V	±1%	100/120/200mV	82%/84%/85%	129x98x38
ESE075-12/24/48	75		12V/24V/48V	±1%	100/120/200mV	82%/85%/86%	129x98x38
ESE100-05/12/24/48	100		5V/12V/24V/48V	±1%	100/100/150/150mV	75%/84%/85%/86%	160x98x39
ESE150-05/12/24/48	150		5V/12V/24V/48V	±1%	80/120/150/200mV	77%/83%/85%/86%	199x98x38
ESE240-05/12/24/48	240		5V/12V/24V/48V	±1%	80/120/120/200mV	78%/82%/85%/86%	215x115x50
ESE350-5/12/24/36/48	350		5V/12V/24V/36V/48V	±1%	100/120/150/200/200mV	76%/84%/85%/86%/86%	215x115x50

以上数值仅为标准值供参考, 可根据客户要求定做。
These data of this table are typical values of standard versions. Other various types are available on customer's request.



三相干式变压器

Three-Phase Dry Type Transformer

产品特点

SG系列三相干式变压器，根据IEC600676和IEC600726标准设计，由硅钢叠片铁芯组成。在应用中它是理想的，为调整交流电压要求在初级和次级电路之间有一个电流隔离（绝缘）。通过电源网的电流隔离用的系统可以保护脉冲高压、高电压和接地故障。同时也能减少电源网络反馈。除了标准产品，我们还可以为客户提供定制产品。

应用范围：染整设备、UV机械，其他工业控制行业设备。

Feature

The SG transformer is a three-phase dry-type safety insulating transformer, which is constructed with CRGO laminated core in our standard design according to standard IEC60076 and IEC600726. It's ideal for adjustment of alternating(AC) voltage in applications that require a galvanic insulation between primary and secondary circuit. Through this galvanic insulation of power supply net the used system is protected against electric shock/high customized versions are available on request.

Application: Dyeing & Finishing Equipment, UV machine, Other Industrial Control Area.

技术规格 Technical Data of Standard Implementation

容量 Power (kVA)	输入 Input (V)	输出 Output (V)	联结组别 Vector Gr.	阻抗 Imp (%)	空载损耗 No-load loss (kW)	负载损耗 Full-load loss (kW)	工作温度 Operat.Temp. (°C)	绝缘等级 Insulat.Cl.	防护等级 IP-Cl.	尺寸 Dimension (L*W*H)(mm)	重量 Weight (kg)
100	400	400	Dyn5	4	0.40	0.85	75	F	IP20	980*450*750	605
280	400	400	Dyn5	4	0.75	2.60	75	F	IP20	1100*480*900	1035
500	400	400	Dyn5	4	1.20	3.40	75	F	IP20	1250*700*1000	1730
630	400	400	Dyn5	4	1.38	4.40	75	F	IP20	1250*700*1000	2050
800	400	400	Dyn5	4	1.70	5.20	75	F	IP20	1350*700*1250	2450

以上数值仅为标准值供参考，可根据客户要求定做。
These data of this table are typical values of standard versions. Other various types are available on customer's request.



低压电抗器

Low Voltage Reactor

产品特点

电容量在无功补偿回路中往往受到谐波电流、合闸涌流及过电压的影响，造成电容器容易损坏，因此串联一定比例的电抗器，用以抑制和吸收部分谐波，可以显著提高供电系统的可靠性和稳定性，在很多情况下，如电网谐波含量大时，则必须串联与电容配套的电抗器。

Feature

Capacitor used in reactive power compensation loop is always affected by harmonic current, switching current, and overvoltage. This will be easily damaged in application. So it's very necessary to series connect the Reactor according to the working condition to restrain and absorb part of harmonic. It can significantly enhance reliability and stability. In many cases, if the power grid with higher harmonic content, the capacitor must be series connect with a reactor.

单相交流电抗器Single-Phase AC Reactor

型号 Model	电感 Inductance(L)	电流 Current(A)	外形尺寸 Outline Dimension(mm)	安装孔尺寸 Fixing Dimension(mm)	重量 Weight(kg)
DK-1.11/150	0.11	150	130x120x150	105x90	1.7
DK-0.3/250	0.29	250	220x285x225	140x190	42
DK-0.8/250	0.7818	250	320x310x450	210x280	105
DK-1.6/130	1.56	130	290x280x360	210x250	60

直流电抗器DC Reactor

型号 Model	电感 Inductance(L)	电流 Current(A)	外形尺寸 Outline Dimension(mm)	安装孔尺寸 Fixing Dimension(mm)	重量 Weight(kg)
KY-20/1200	0.02	1200	300x200x280	180x190	15
KY-55/750	55	750	230x255x195	160x126	35
KY-70/560	70	560	230x230x195	160x130	35
KY-110/370	0.11	370	190x225x172	160x130	24
KY-200/220	0.2	220	191x175x170	160x100	17.5
KY-393/84.7	183	211	153x175x140	127x88	9.5
KY-183/211	393	84.7	190x210x175	160x115	19

三相低压电抗器Three-Phase Low Voltage Reactor

型号 Model	电感 Inductance(L)	电流 Current(A)	额定电压 Rated Voltage(kV)	容量 Power(kVAR)	额定电抗率 Impedance(%)	外形尺寸 O. D. (mm)	安装孔尺寸 F. D. (mm)	重量 Weight(kg)
CKSG-0.6	3.057	14.5	0.4	0.6	6%	240x140x165	100x110	12
CKSG-1.5	1.223	36	0.4	1.5	6%	240x155x185	100x115	18
CKSG-15	0.313	143	0.4	6	6%	460x310x460	100x150	80
CKSG-6	0.526	167	0.4	15	6%	500x310x500	320x250	118
CKSG-1.53/160	1.53	160	0.4	1.53	6%	600x330x580	320x250	190
SK-8/80	8	80	0.4	8	6%	600x330x580	320x250	205

以上数值仅为标准值供参考，可根据客户要求定做。
These data of this table are typical values of standard versions. Other various types are available on customer's request.



环氧浇注干式变压器

Cast-Resin Dry Type Transformer

产品特点

环氧浇注系列产品为三相变压器，由硅钢片做分阶铁芯结构，铝箔作为低压绕组的主要材质。每个相位的高压和低压绕组都应用真空密封技术内植铸造高品质环氧树脂。这种自熄性树脂可以满足各种抵抗极端条件的能力，如E2-C2-F1环境气候和防火等级。

该系列变压器在高污染、高湿度和温差大的室内环境安装是最佳选择，持续负载情况下效果理想。所有的SCB系列变压器按照IEC60076-11和IEC60076 1-5部分标准下生产和测试。此外，这些变压器在HD标准538.1S1:HD 1992和538.1 S1/A1:1995-03标准下功率损耗比预期的更好。

应用范围：铁路、光伏系统、抽水站、采矿、化学制品和变电站等。

Feature

The SCB transformer is a three-phase cast-resin transformer, which uses silicon steel as step-lap laminated core and aluminium foil as low voltage winding. The high voltage and low voltage winding of each phase are embedded under vacuum cast in high quality epoxy resin. This self-extinguishing resin meets all of the properties ability to withstand extreme conditions of the E2-C2-F1-environmental climate and fire rating class.

This transformer is maintenance free and is excellent in an indoor installation where high pollution levels prevailing, high humidity, and temperature extremes. Ideal for constant load conditions. All SCB series transformers are produced and tested in accordance with IEC60076-11 and IEC60076 parts 1 to 5. Additionally, these transformers, overachieves the power loss dissipation of the HD standards 538.1S1:HD 1992 and 538.1 S1/A1:1995-03.

Applications: railway application, photovoltaic systems. Pumping stations, mining, chemical applications, sub-stations and marine engineering.

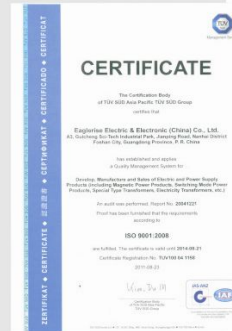
技术规格 Technical Data of Standard Implementation

容量 Power (KVA)	高压 HV (V)	分接 Tapping (%)	低压 LV (V)	阻抗 Imp (%)	联结组别 Vector Gr.	空载损耗 No-load loss (kW)	负载损耗 Full-load loss (kW)	绝缘等级 Insulat.Cl.	噪音等级 Noise (dB)	尺寸 Dimension (L*W*H)(mm)	重量 Weight (kg)
500	20	±2x2.5	400	Dyn5	6	1.55	6.25	F	70	1450x1100x1600	1960
630	20	±2x2.5	400	Dyn5	6	1.75	7.38	F	71	1750x1000x1650	2170
1000	20	±2x2.5	400	Dyn5	6	2.38	10.56	F	72	1850x1300x1890	3000
1260	20	±2x2.5	400	Dyn5	6	2.74	12.46	F	74	1900x1300x1950	3380

以上数值仅为标准值供参考，可根据客户要求定做。

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质量体系 Quality Control



质量管理体系认证证书
ISO9001:2008
Authentication Certification



环境保护管理体系认证证书
ISO14001:2004
Authentication Certification



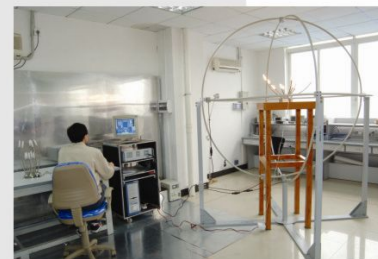
有害物质管理体系认证证书
QC080000
Authentication Certification



生产车间
Workshop



生产车间
Workshop



EMC测试
EMC Testing



RoHS测试
RoHS Testing