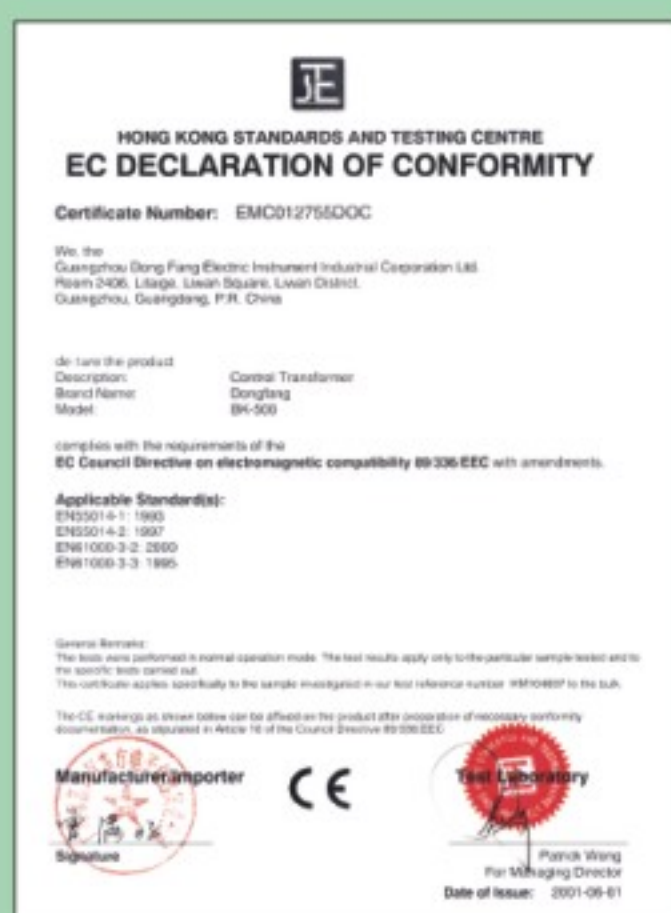




使用说明书

USER MANUAL

干式变压器是供室内使用的，把一种电压等级的交流电压，变换成另一种或几种不同电压等级的电器设备。变压器是根据电磁感应原理制成的，由输入绕组感应输出绕组而变压。具有使用方便、效率高、干净免维护等优点。它广泛应用于输电、供电和用电，以及电讯、自动控制等部门。本产品采用空气自然冷却形式。耐热等级为B级。

Dry-type transformer is used indoors. It can be changed to one or several different voltage rating electrical equipment from an exchange supply voltage of voltage rating. Transformer is made under the principle of electromagnetic inductions, which are winding sensor input and output winding transformers. It is easy to operate; highly efficient; clean and maintenance free. Transformer is widely used in departments of electric power transmission; power supply; energy consumption; telegraph and automatic control. Our product is made of air natural cooling form and transformer is classified into heat-grade B-class materials.

变压器使用条件 Transformers Conditions of Use

- 1、额定频率为50/60Hz，电源电压波形近似于正弦波。
- 2、周围介质温度不超过+40℃，最高日平均气温不大于+30℃，年平均气温不大于+20℃。
- 3、无有害工业气体，无腐蚀气体和介质，变压器不得受到水、雨、雪的侵蚀。
- 4、空气相对湿度不大于95%。
- 5、海拔高度不超过2000米。

1. Rated frequency of 50/60Hz, supply voltage approximately sinusoidal waveform.
2. Ambient Media Temperature does not exceed + 40 ℃. The maximum daily average temperature of not more than + 30 ℃, and yearly average temperature of not more than + 20℃.
3. To prevent erosion, no harmful industrial gases or non-corrosive gases, including water, wind and snow should enter the transformer.
4. Relative humidity less than 95%.
5. Altitude ought to be under 2000m.

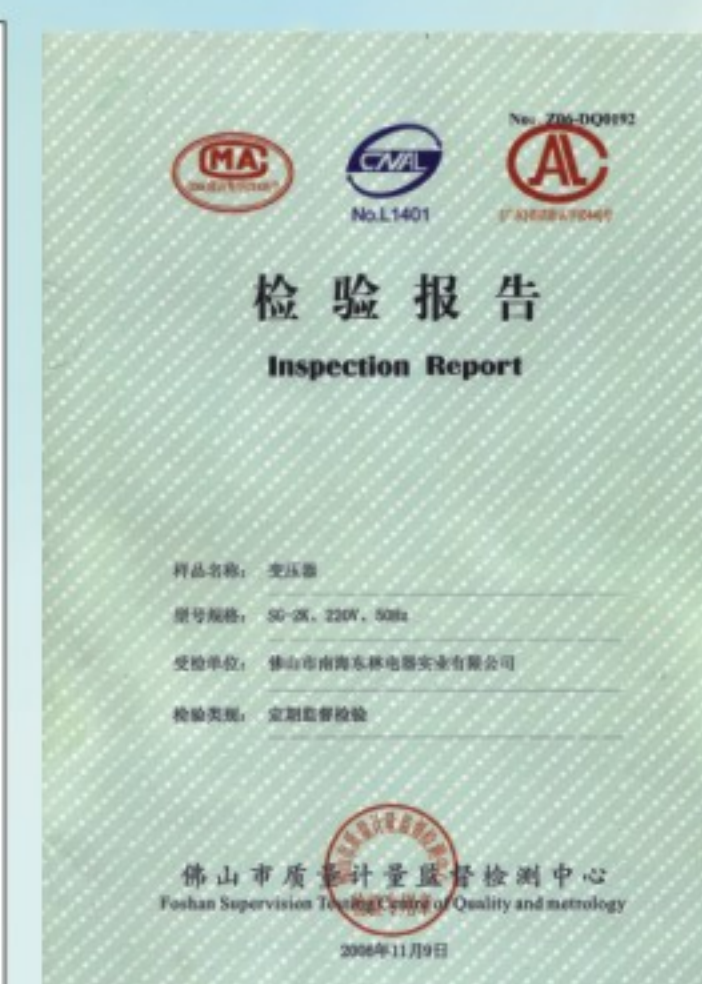
注意事项 Note

- 1、变压器不得超载运行。
- 2、阻性负载，请按负载电器设备额定功率的1.2倍—1.5倍订制。
感性负载，请按负载电器设备额定功率的1.5倍—2倍订制。
- 3、所有连接线规格符合国标GB19212-2003要求，且必须接触良好。
- 4、变压器应安装在通风良好的地方，器身非导电部分必须接地，且必须接触良好。
- 5、变压器使用条件有所变更，或变压器使用有特殊要求，请于订货时另外说明。

1. The operation of transformer shall not be overloaded.
2. The resistive load: by 1.2-1.5 times the rated load electrical equipment customization. Inductive load electrical equipment between 1.5 and 2 times the maximum rate power system.
3. All links with the specifications meeting the requirement of international GB19212-2003 must have access to good and proper connections.
4. The transformer itself should be installed in a well-ventilated place and be part of the non-conductive grounding. There must be good contact.
5. Transformers conditions of use changes, or there are special requirements for transformers, when otherwise stated in the specifications.

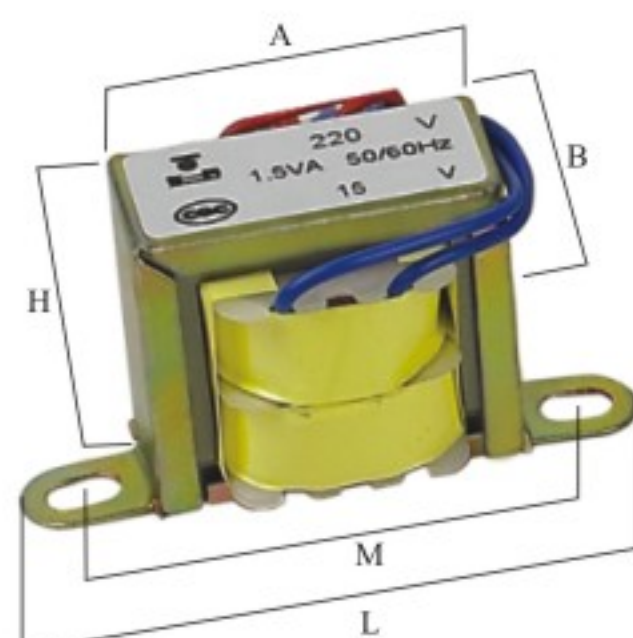
在用户遵守以上条件，一年内，如属产品质量问题，厂方免费保修。

Users must comply with the above requirement in order to receive free maintenance for one year.



各种小型变压器

POWER TRANSFORMER SERIES (NIU CLIP)

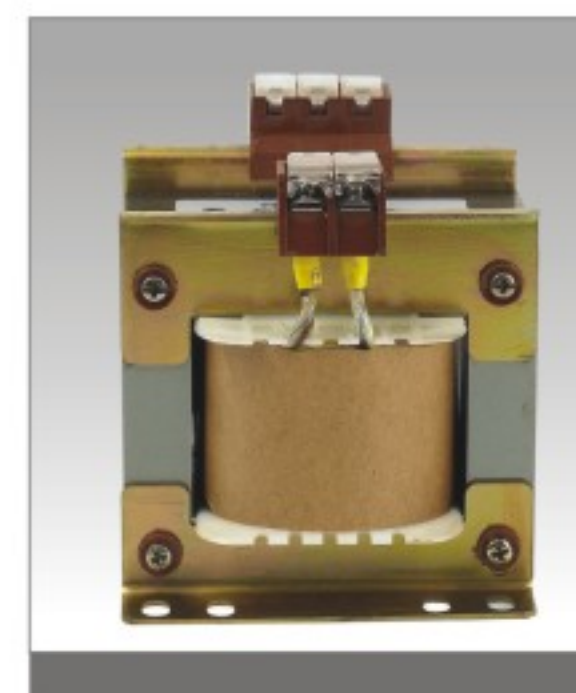


容量 Capacity (VA)	外形尺寸 Dimension (mm)				安装 孔距 Installation Program: Distance (mm)
	A	B	H	L	M
2	37	30	32	58	46
3	37	32	32	58	46
4	43	34	35	65	54
5	43	40	35	65	54
6	50	35	43	74	60
8	50	45	43	74	60
10	50	50	43	74	60
12	50	50	43	74	60
15	59	47	50	83	71
20	59	52	50	83	71
25	59	54	50	83	71
30	68	57	58	95	81
35	68	61	58	96	82
40	68	65	58	94	81
50	68	73	58	99	83
60	78	70	66	105	90
80	78	75	66	107	91

单相变压器

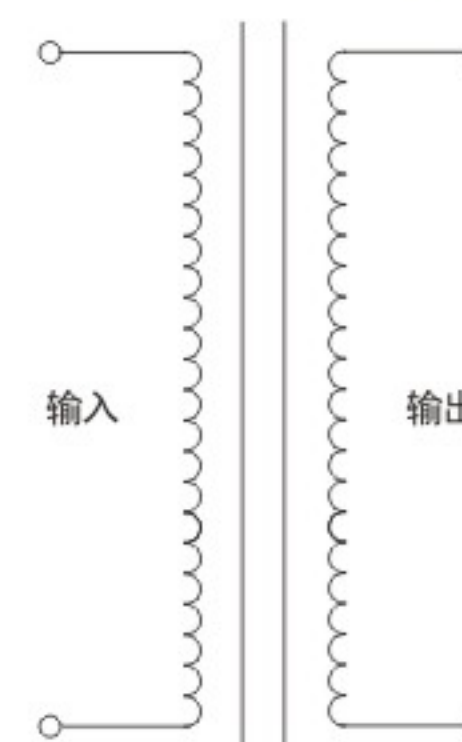
DG Single-phase Transformer Series

DG单相隔离变压器系列
DG Single-phase Transformer Isolation Series



型号规格 Model Rated Power (VA)	型号规格 Model Rated Power (VA)	型号规格 Model Rated Power (VA)
DG-50	DG-2k	DG-25k
DG-100	DG-3k	DG-30k
DG-200	DG-5k	DG-40k
DG-300	DG-8k	DG-50k
DG-500	DG-10k	DG-60k
DG-1k	DG-15k	DG-80k
DG-1.5k	DG-20k	DG-100k

线路图如下 Following Circuit



隔离变压器分为安全隔离变压器和一般隔离变压器，前者指为安全特低电压电路提供电源的隔离变压器，其额定电源电压不超过交流1000V，额定输出电压和空载输出不超过50V。后者指输入与输出绕组彼此可靠隔离的变压器，其额定电源电压不超过交流1000V，额定输出电压和空载输出电压不超过1000V。其适用于按照规程要求将某一电路的某一部分或某些设备与配电线路隔开的场合。

The Isolation Transformer can be divided into a safety isolation transformer and also a general isolation transformer. The former is an isolation transformer that is used for the purpose of safety in ultra-low-voltage circuits. The rated supply voltage cannot exceed the exchange 1000V and the rated output voltage and no-load output cannot exceed 50V. The latter is an input and output winding transformers, which are interdependent. The rated supply voltage cannot exceed the exchange 1000V and the rated output voltage and no-load output cannot exceed 1000V. It acts in accordance with the requested order only, requested by taking some parts of electronic circuits or some parts of electrical equipment meeting the requirements of circuit isolation conditions.

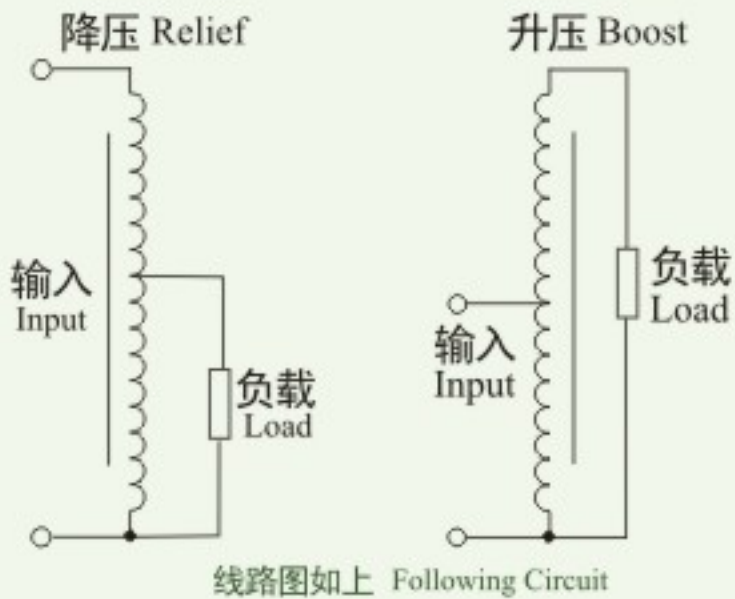
- 牛夹式电源变压器是小型单相变压器，多数为小整流负载提供电源，用于各式机械产品、电气设备配备的控制线路。
- 以上数据仅供参考，应以实物为准，或来电查询。
- NIU clip is a small single-phase transformer - type power transformer, rectifier load for the majority of low power for various types of machinery and electrical equipment for control on the line.
- The above statistics are only for reference; customer enquiries; and for the effective and successful use of the product.

ODG单相自耦变压器系列

ODG Single-phase Autotransformer Series

单相自耦变压器是一种自感式变压器，比普通互感变压器经济，作降压或升压用，具有结构简单、经济、省料、体积小等优点。在变压比接近1的场合显得特别经济，所以在电压相近的大功率输电变压器中用得较多，但因一、二次侧共用一个绕组，有电的联系，因此在某些场合不宜使用，特别是不能用作行灯变压器。

Single-phase autotransformer is a self sensor transformer. It is more economical than using the general mutual inductance current transformer for relieving and boosting purposes. There are many advantages such as simple structure, economical use, cost-effective manufacturing and small size etc. Transformer than one occasion in particular, is economically suitable. So that it is used to a large extent with high power electricity transmission transformer with the capacity voltage. However, as one, sharing a winding secondary windings, and electricity links, in some cases the uses of this are not appropriate. It especially cannot be used for lights lighting transformer.



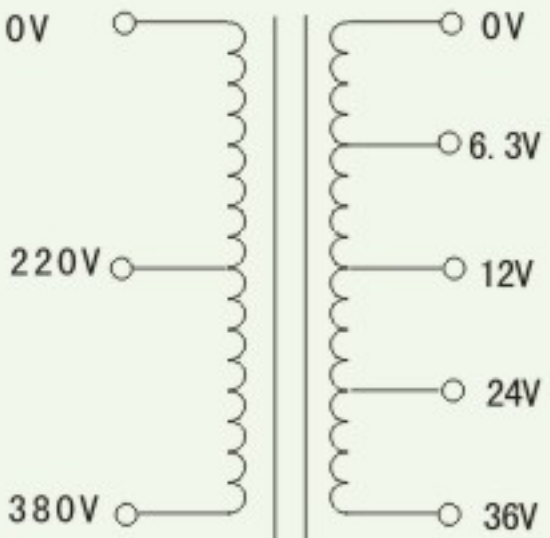
型号规格 Model Rated Power (VA)	型号规格 Model Rated Power (VA)
ODG-200	ODG-10k
ODG-300	ODG-20k
ODG-500	ODG-30k
ODG-1k	ODG-50k
ODG-2k	ODG-100k
ODG-3k	ODG-150k
ODG-5k	ODG-200k

BK控制变压器系列

BK Control Transformer Series



线路图如下 Following Circuit



BK控制变压器，是一种小型干式变压器，在电气设备中用作控制电路的电源，以及用作信号灯、指示灯和低压安全灯电源。可选220V电源或380V电源，也可接220V电源时用380V输出，可接380V(接两条火线)电源时用220V输出，但若长期负载使用，总功率不得超过额定容量80%。

BK Control Transformer is a small dry-type transformer. This electric equipment is for purposes of electronic control power; signal lights, signs lights and low voltage safe light power. 220V power or 380V power is applicable. When connecting 220V power, then use 380V output, when connecting 380V power (two fire lines connected), then use 220V output. If long-term overloading, the total power cannot exceed the rated capacity 80%.

输出每档位的最大功率为该档电压值与最大输出电流值的乘积：

例如：1KVA 最大输出电流值为28A

当使用6.3V时，功率为6.3V×28=176VA

当使用12V时，功率为12V×28=336VA

其他依次类推

Output each maximum power is the product of each voltage and the maximum output current.

For example: 1KVA, the maximum output current 28A

When using 6.3V, power is 6.3V×28 = 176VA

When using 12V, power is 12V×28 = 336VA

And so on.

- 以上数据仅供参考，应以实物为准，或来电查询。
- 输入电压：0V 220V 380V
- 输出电压：0V 6.3V 12V 24V 36V
- The above statistics are only for reference; customer enquiries; and for the effective and successful use of the product.
- Input voltage: 0V 220V 380V
- Output voltage: 0V 6.3V 12V 24V 36V

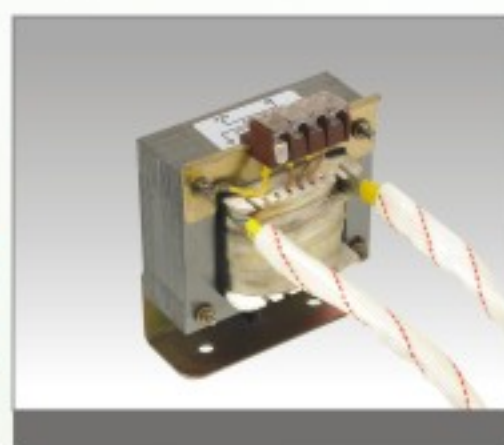
型号规格 Model Rated Power (VA)	外形尺寸 Dimension (mm)			输出电流 Output voltage (A)
	长 Long	宽 Width	高 High	
BK-50	76.2	97	90	1.4
BK-100	96	97	112	2.8
BK-150	96	107	112	4.2
BK-200	114	102	125	5.6
BK-300	114	122	125	8.3
BK-400	133.2	112	142	11
BK-500	133.2	117	142	14
BK-800	152.4	140	160	22
BK-1k	152.4	160	160	28
BK-1.5k	192	175	190	42
BK-2k	192	185	190	56
BK-3k	228	210	220	83
BK-4k	228	220	220	111
BK-5k	228	230	220	139
BK-8k	285	235	330	222
BK-10k	306	280	350	278
BK-15k	306	320	400	417
BK-20k	360	360	400	556
BK-25k	381	370	420	694

电阻点焊变压器

Transformer Special For Resistance Spot Welding Machine

电阻点焊变压器是输出低电压，大电流，低漏抗的特殊变压器。主要由铁芯，初次级线圈，绝缘体及夹紧件组成。其原理是通过强大电流使工件结合处产生电阻热达到塑熔并加压而实现焊接。

It is a special low leakage reactance transformer with low voltage and large current output. it is made up of iron coil, primary windings, secondary windings, isolations and clamping parts. Principle of the resistance welding is to bring pressure to bear on the workpieces and then let large current get across the workpieces, contact spot of the two pieces of workpiece melt together by huge heat produced from contact resistance.



- 产品特点：寿命长、更节能、温升低、工艺好、多项指标优于国标
- 欢迎订造各种规格的变压器，诚意为您提供所需要的服务
- Product Attributes: longevity; energy-saving; low temperature; quality process; meets international standards.
- We welcome orders for various specification transformers; we sincerely hope to provide you with a tailor-made service.

高压变压器

High voltage transformer

高压变压器的二次电压较高，电流较小，因为电压高，固其绝缘料多采用环氧树脂，分端封和灌注形式。端封即用环氧树脂把线圈两端面灌封，目的是提高绝缘和防潮性能。灌注即根据器件的设计需要，采用环氧树脂混合物、硅凝胶等材料把线圈，器件灌注封装。目的是提高整个器件的绝缘性能、耐潮、耐盐雾和防霉性能。



Generally speaking, the secondary output of the H.V. transformer is high voltage and the low current. Because of existing high voltage in the transformer, the epoxy perfusion was applied to deal with the isolation of the transformer. Surface perfusion is to affuse epoxy to the end port of the transformer and wholly perfusion is to the inside and integer. The effect of the epoxy perfusion is to resist of humidity, salt fog and mildew and improve the performance of the isolation.



TRANSFORMER
TONYABA

稳定做足100分
Get 100 marks steady



用材扎实

伏狮以象力
搏兔亦用象力
质真料实
确保满分品质

三相变压器

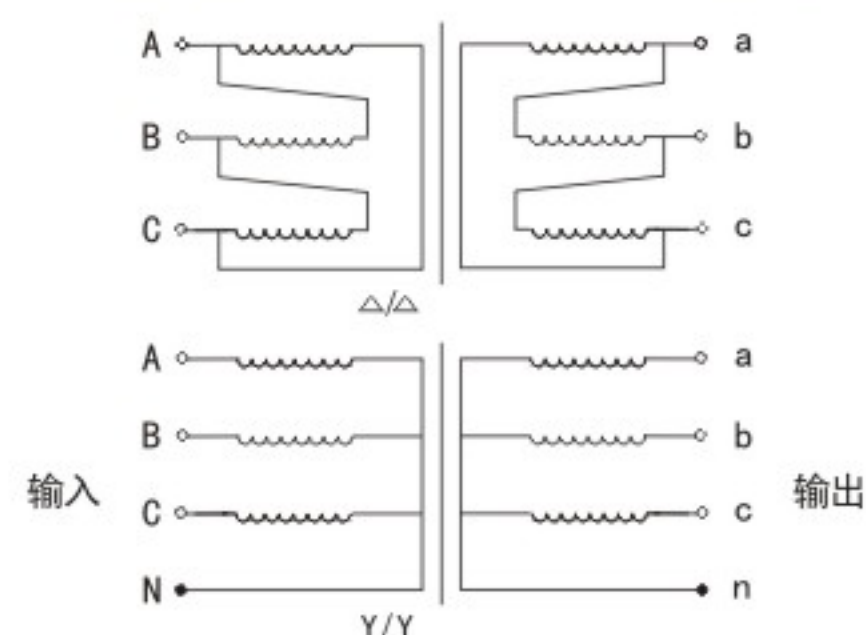
Three-phase Dry-Type Transformer Series

SG三相干式变压器系列 SG Three-phase Dry-Type Transformer Series



型号规格 Model Rated Power (VA)	型号规格 Model Rated Power (VA)	型号规格 Model Rated Power (VA)
SG-300	SG-8k	SG-60k
SG-500	SG-10k	SG-80k
SG-1k	SG-15k	SG-100k
SG-1.5k	SG-20k	SG-150k
SG-2k	SG-25k	SG-200k
SG-3k	SG-30k	SG-300k
SG-4k	SG-40k	SG-500k
SG-5k	SG-50k	SG-1000k

三相干式变压器系列线路图
Three-phase Dry-type Transformer Series Road Map



三相干式变压器是指电压在500V以下的中小型互感变压器, 散热方式为空气自冷 (AN)。广泛应用于电力供电系统。

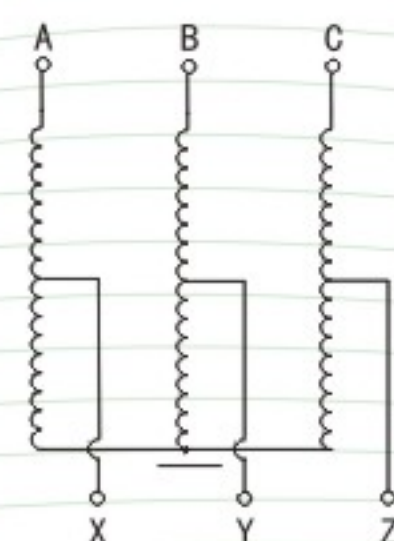
Three-phase dry-type transformer is a small and medium-sized mutual inductance current transformer; Its voltage is under 500V. Cold air (AN) is used as the radiator heat method. It is widely used in the power supply system.

OSG三相自耦干式变压器系列

OSG Three-phase Dry-type Autotransformer Series



三相自耦线路图
Auto Three-phase Road Map



型号规格 Model Rated Power (VA)	型号规格 Model Rated Power (VA)
OSG-1k	OSG-50k
OSG-2k	OSG-80k
OSG-3k	OSG-100k
OSG-5k	OSG-150k
OSG-10k	OSG-200k
OSG-15k	OSG-300k
OSG-20k	OSG-500k
OSG-30k	OSG-1000k

三相自耦变压器是由三个单相自耦变压器组成, 广泛应用于电力供电系统中。

Three-phase autotransformer is composed of three single-phase autotransformers. It is widely used in the power supply system.

带壳变压器

shell transformer

DGB单相变压器系列 DGB Single-phase Transformer Series



型号规格(VA) Model Rated Power	外形尺寸 Dimension (mm)		
	长 Long	宽 Width	高 High
DGB-6K	460	510	680
DGB-8K			
DGB-10K			
DGB-15K			
DGB-20K	600	510	850
DGB-25K			
DGB-30K			
DGB-40K	700	590	980
DGB-50K			
备注 Notes	可移动、带外壳、带仪表单相干式变压器 Mobile、Shell、Instrument Single-phase Dry-Type Transformer		

SGB三相变压器系列

SGB Three-phase Transformer Series



型号规格 Model Rated Power (VA)	外形尺寸 Dimension (mm)		
	长 Long	宽 Width	高 High
SGB-5k	460	510	680
SGB-8k			
SGB-10k			
SGB-15k			
SGB-20k	600	510	850
SGB-25k			
SGB-30k			
SGB-35k	700	590	980
SGB-40k			
SGB-50k			
SGB-80k			
SGB-100k	870	790	950
SGB-120k			
SGB-150k			
SGB-200k	980	850	1200
SGB-250k			
SGB-300k			
备注 Notes	可移动、带外壳、带仪表三相干式变压器 Mobile、Shell、Instrument Three-phase Dry-Type Transformer		

DGC单相变压器系列/SGC三相变压器系列
DGC Single-phase Transformer Series / SGC Three-phase Transformer Series

型号规格 Model Rated Power (VA)	重 量 Weight (kg)	型号规格 Model Rated Power (VA)	重 量 Weight (kg)	A款外形尺寸 Dimension (mm)			B款外形尺寸 Dimension (mm)		
				长Long	宽Width	高High	长Long	宽Width	高High
DGC-6K	70	SGC-5K	65	600	400	550	520	300	530
DGC-8K	80	SGC-8K	75						
DGC-10K	90	SGC-10K	100						
DGC-12K	100	SGC-15K	140	630	450	590	570	350	600
DGC-15K	120	SGC-20K	170						
DGC-20K	160	SGC-25K	210	690	550	630	630	400	610
DGC-25K	190	SGC-30K	240						
DGC-30K	230	SGC-35K	270						
备注 Notes	可固定、带外壳、不带仪表单/三相干式变压器 Fixed、Shell、Single/Three-phase Dry-Type Transformer without Instrument								



A款如上



B款如上

整流变压器

Rectifier Transformer

整流变压器是供整流设备用的电源变压器，其将交流电压转换成一定大小和相数的电压，再经整流元件整流，以满足直流输出的要求，其还将整流设备与电网的电路隔离，确保设备和人身安全，限制短路电流，减少整流设备对电网或其他并联运行整流设备相互间的电磁干扰，抑制可控硅等整流元件的电流上升率。可根据客户要求订造各种规格。

Rectifier Transformer is the power transformer used as rectifier equipment. In order to meet the needs of DC output, AC voltage is transformed to a certain correlation between the size and number of the phase out voltage rectifier. It also isolates the rectifier equipment and electronic circuits of networking. Then, it can protect equipment and personal safety; control the short circuit current and reduce the inter-electromagnetic interference between the rectifier equipment and networking or other related activities. It inhibits the current rate of increase of the SCR rectifier and other components. Any specifications can be produced according to the customer's needs.

ZDG单相整流系列

ZDG Single-phase Rectifier Series

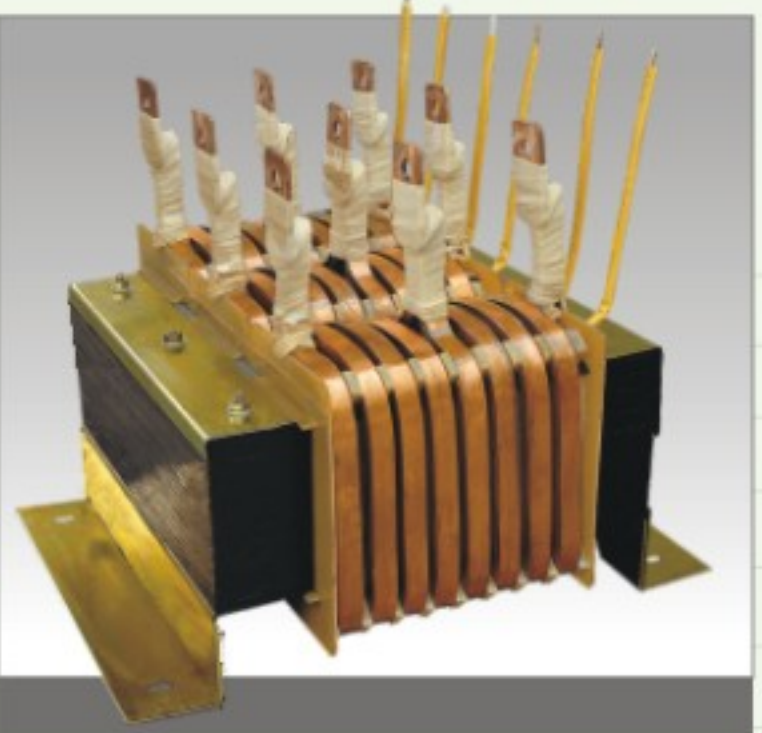
- 产品特点：寿命长、更节能、温升低、工艺好、多项指标优于国标
- 欢迎订造各种规格的变压器，诚意为您提供所需要的服务
- Product Attributes: longevity; energy-saving; low temperature; quality process; meets international standards
- We welcome orders for various specification transformers; we sincerely hope to provide you with a tailor-made service.



ZSG三相整流系列

ZSG Three-phase Rectifier Series

- 产品特点：寿命长、更节能、温升低、工艺好、多项指标优于国标
- 欢迎订造各种规格的变压器，诚意为您提供所需要的服务
- Product Attributes: longevity; energy-saving; low temperature; quality process; meets international standards
- We welcome orders for various specification transformers; we sincerely hope to provide you with a tailor-made service.



JMB行灯变压器系列

JMB Lights Transformer Series



- 输入电压：0V 220V 380V
- 输出电压：0V 6.3V 12V 24V 36V
- JMB行灯变压器是带安全外壳的低压安全灯照明电源，较多用在工矿企业。可选用220V电源或380V电源。
- Input voltage: 0V 220V 380V
- Output voltage: 0V 6.3V 12V 24V 36V
- JMB lights transformer with a secure shell is a low voltage, which is power for lighting safelight. It is often used for the mining industry. 220V power or 380V power is applicable.

型号规格 Model Rated Power (VA)	外形尺寸 Dimension (mm)			输出电流 Output voltage (A)
	长 Long	宽 Width	高 High	
JMB-50	200	145	150	1.4
JMB-100				2.8
JMB-150				4.2
JMB-200	235	180	185	5.6
JMB-300				8.3
JMB-500				14
JMB-1k	300	230	225	28
JMB-1.5k				42
JMB-2k				56
JMB-3k	405	305	285	83
JMB-5k				139
JMB-10k				278
JMB-15k	530	520	485	417
JMB-20k				556
JMB-25k				694
JMB-30k	690	550	610	833

QSG三相自耦减压起动变压器系列

QSG Three-phase Reduced Starting Autotransformer Series

自耦变压器降压起动，亦称为补偿器起动。利用自耦变压器来降低起动电压，电动机可获得较大的起动力矩，且可调节起动电流和力矩。多用于长期或间断长期工作的起动机。只在电动机起动开始时的短时间内工作。1小时内连续起动的时间不超过120s。

The reduced starter of autotransformer is also called compensation starter. Using the autotransformer reduces the starting voltage. The motor can get the greater jump-start torque. Also, it can adjust the current starter and torque. This starter is largely used for long-term or long-term interruption purposes. It only works for a short period of time while motor is starting at the beginning and the constant starter time cannot be over 120s within 1 hour.



型号规格 Model Rated Power (VA)	外形尺寸 Dimension (mm)			安装尺寸 (长×宽) Installation size (mm)
	长 Long	宽 Width	高 High	
QSG-23KW	280	220	290	155×150
QSG-40KW	300	245	360	160×140
QSG-55KW	360	250	380	205×160
QSG-75KW	360	280	380	205×185
QSG-90KW	360	290	400	205×195
QSG-100KW	420	285	480	280×185
QSG-115KW	420	290	480	280×190
QSG-125KW	420	300	480	280×200
QSG-135KW	420	310	480	280×210
QSG-155KW	480	320	490	325×200
QSG-180KW	480	340	490	325×220
QSG-190KW	480	350	490	325×230
QSG-210KW	480	370	490	325×250
QSG-225KW	480	380	540	325×260
QSG-250KW	480	390	540	325×270
QSG-280KW	540	350	520	360×240
QSG-315KW	540	370	520	360×260
QSG-350KW	600	400	560	400×250
QSG-400KW	600	420	560	400×270

- 欢迎订造各种规格的变压器。输入电压：380V 输出电压：60% 70% 80%
- 以上数据仅供参考，应以实物为准，或来电查询。
- We welcome orders for various specification transformers. Input voltage: 380V Output voltage: 60% 70% 80%
- The above statistics are only for reference; customer enquiries; and for the effective and successful use of the product.

BPI_A 频敏变阻器 BPI_A Frequency Sensitive Rheostat



频敏变阻器系供交流三相50周绕线型感应电动机作偶而起动或重复短时起动之用。由于频敏变阻器是无触点电磁元件，它接在交流绕线型感应电动机转子回路中，利用铁磁材料的频敏特性，在起动过程中，其等值电阻和等值电抗均随频率的变化而变化，故可实现无级起动，从而获得接近恒力矩的起动性能。偶而起动频敏变阻器允许连续起动数次，但总起动时间轻载不得超过80秒，重负载和重载不得超过120秒。频敏变阻器线圈设有5个抽头，便于在使用时根据情况进行调整，抽头的匝数分别为总匝数的0，30%，80%，90%，100%。

Frequency Sensitive Rheostat provides an occasional start or repeating short start to 50 hertz, three-phase AC induction motor coil type. It is a non-contact electromagnetic component in the motor rotor circuit. Even though the ferromagnetic material is frequently used, it does not affect the operation when the motor starts. The equivalent resistance and equivalent reactance will be changed when the frequency is changing. It can be close to the motor torque starting performance. Occasionally, the frequency sensitive rheostat can be started several times constantly and restarted over and over again, however, the total start time for light loads cannot exceed 80 seconds. Heavy-light load and heavy start times cannot exceed 120 seconds. The coil frequency sensitive rheostat is with five taps; it is easily adjusted when necessary. The turn of tap is 0, 30%, 80%, 90% and 100% respectively of the total turns.

铁芯干式电抗器 Dry-type Iron Core Reactors



是一种电感元件，由非闭合磁路铁芯和单线圈组成。在电路中主要作用是限流、均流、滤波、无功补偿、移相等，在电力系统和电气系统中，常使用各种不同型号规格的单相和三相电抗器。

It is made up of unclosed iron core and series-wound coil. Main functions of a reactors is limit and average current, restrain from the high subharmonic and closing surge, compensate wattless power and adjust phase etc. There are various type of single phase or triple phase reactors be applied in the electric power and electricity system.

