

# Transformer



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## Company Profile





## Introduction

These products are mainly used in AC circuits up to 1140V, serving as control power supply, working lighting power supply and signal power supply for mechanical equipment, machine tools and complete sets of equipment.

## Application Knowledge of Low-Voltage Transformers

### 1. Capacity Selection

The capacity of the transformer shall be determined based on the total power of the connected loads. In addition, factors including potential overload during actual operation and load types shall be taken into account. A proper capacity margin shall be reserved in accordance with electrical engineering principles.

### 2. Transformer Wiring

- For single-winding products, direct wiring can be made between input and output. No distinction between live wire and neutral wire is required for models without designated terminals of the same polarity.
- For tapped transformers, wiring shall be carried out according to the marked voltage requirements; other unused taps are not allowed for wiring.
- For multi-capacity transformers, separate wiring shall be implemented per respective voltage requirements, with no electrical connection between different sections.

### 3. Installation Requirements

As a power supply device, the transformer generates heat during operation. Sufficient heat dissipation space or cooling devices must be provided at the installation site to prevent overheating caused by external factors.

Step-up and step-down transformers **must not be reversely wired**.

## Main Technical Parameters

<b>Phase number type</b>	Single-phase (BK\JBK3\JBK5 series) , Three-phase (SG series)	
<b>Input voltage (VAC)</b>	220、380、440、690、960、1140	
<b>Output voltage (VAC)</b>	6、12、24、36、48、110、220、380、440	
<b>Capacity (VA)</b>	25~100k	
<b>Insulation type</b>	Dry type	
<b>Protection method</b>	Non-protected type, box type	
<b>Usage environment</b>	Temperature	In operation state, -10~50°C, Storage, -25~70°C
	Humidity	≤85%RH, No condensation and no corrosive gases.
	Altitude	≤3000m

**Note: Parameters not listed can be consulted in detail and customized through negotiation.**

## SG Series three-phase dry-type transformer



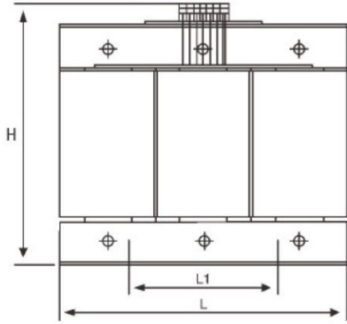
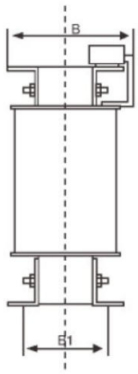
SG series consists of three-phase dry-type transformers, suitable for circuits with an AC frequency of 50/60 Hz. They are used as control power supplies and lighting power supplies for machine tools, mechanical equipment, low-voltage switchgear assemblies, and electric drive control equipment, and can also serve as small-scale power supplies.

1.The transformers can be manufactured in open or protected types. For protected types, voltage and current monitoring instruments can be added according to user requirements.

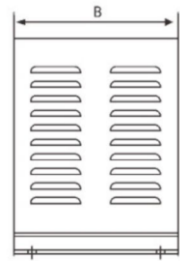
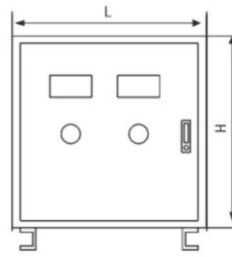
2.The coil windings are treated with a vacuum impregnation insulation process, providing reliable mechanical strength and insulation strength.

Non-protective type						
TYPE	Overall dimensions			Mounting dimensions		mounting hole
	L	B	H	L1	B1	
SG-300	180	95	185	100	75	6*14
SG-500	180	95	185	100	75	6*14
SG-1000	180	110	185	100	90	6*14
SG-1600	230	125	205	130	100	9*16
SG-2000	230	125	205	130	100	9*16
SG-3000	240	145	215	130	120	9*16
SG-4000	240	155	235	130	130	9*16
SG-5000	300	160	255	180	125	10*20
SG-6000	300	165	280	180	130	10*20
SG-8000	300	175	280	180	140	10*20
SG-10k	360	180	305	215	140	10*20
SG-15k	360	200	335	215	155	10*20
SG-20k	420	210	350	250	170	10*20
SG-30k	420	230	380	250	190	10*20
SG-40k	480	240	410	280	205	12*20
SG-50k	680	350	550	420	220	18
SG-60k	680	380	550	440	230	18
SG-80k	750	400	620	480	250	20
SG-100k	780	420	650	500	250	22

Protective type			
TYPE	Overall dimensions		
	L	B	H
SG-2.5k	300	240	280
SG-3k	300	240	280
SG-4k	390	280	320
SG-5k	400	280	390
SG-6k	400	280	390
SG-8k	450	350	430
SG-10k	450	350	430
SG-12k	490	350	490
SG-15k	490	390	490
SG-20k	580	400	580
SG-25k	600	420	580
SG-30k	600	420	580
SG-40k	600	420	580
SG-45k	740	500	720
SG-50k	740	500	720
SG-60k	740	500	720
SG-80k	840	530	720
SG-100k	950	550	1080



**Non-protective type**

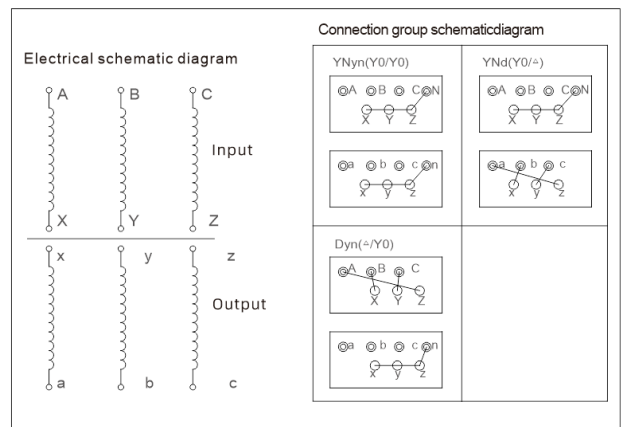
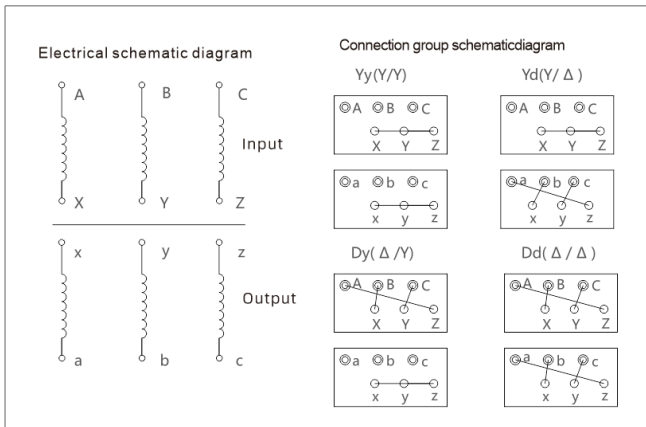


**Protective type**

**Note:**

1. Capacity above 100k VA, specially designed for external and installation dimensions. Please inquire for ordering.
2. The above appearance and installation dimensions are for customer selection purposes. If the customer is limited by installation space, our company can carefully design according to their needs.
3. The above are conventional sizes. If the output current of the transformer is above 250A, it is a high current transformer and needs to be designed separately. The appearance and installation dimensions may vary.

**Schematic diagram of transformer connection group**



Note: If the connection group label (connection group) indicates input Y(Y) connection and output Y(y) connection, and the neutral line needs to be led out (that is, the user can connect the neutral line for use), it shall be expressed as input Yo(YN) and output Yo(yn).