

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

Phase number type	Single-phase (BK\JBK3\JBK5 series) , Three-phase (SG series)	
Input voltage (VAC)	220、380、440、690、960、1140	
Output voltage (VAC)	6、12、24、36、48、110、220、380、440	
Capacity (VA)	25~100k	
Insulation type	Dry type	
Protection method	Non-protected type, box type	
Usage environment	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.

BK Series control transformer



BK series control transformers are suitable for use in AC circuits with a frequency of 50/60 Hz and a rated power supply voltage not exceeding 1000 VAC. They serve as control power supplies for machine tools and mechanical equipment, as well as power supplies for working lighting and signal lamps. They can also be used as small power sources.

- 1.They feature excellent performance, reliable operation, low energy consumption, small size, safe wiring, and wide applicability.
- 2.The coil windings are treated with vacuum impregnation insulation technology, providing reliable mechanical strength and insulation strength.

TYPE	Overall dimensions			Mounting dimensions		mounting hole
	Length	Width ± 5	Height	Length	Width ± 5	
BK-25	80	70	90	56	48	5*8
BK-50	80	72	90	56	50	5*8
BK-100	98	85	108	84	65	5*8
BK-150	105	86	110	76	66	5*8
BK-200	105	105	110	85	87	8*11
BK-250	105	115	110	85	95	8*11
BK-300	115	117	120	90	90	8*11
BK-400	135	125	140	110	97	8*13
BK-500	135	130	140	110	103	8*13
BK-800	152	125	150	120	105	8*13
BK-1000	152	142	165	120	120	8*13
BK-1500	175	170	195	130	120	8.5*17
BK-2000	205	215	230	170	130	8*11
BK-2500	205	225	230	170	140	8*11
BK-3000	205	240	230	170	150	8*11
BK-4000	235	265	260	195	175	8*11
BK-5000	235	280	260	195	190	8*11

Note: Specifications not listed in the table can be customized.