

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.

JBK5 Series Machine tool control transformer



vertical



horizontal

JBK series machine tool control transformers are suitable for use in AC circuits with a frequency of 50/60Hz, serving as control power supplies, lighting power supplies, and signal power supplies for machine tools, machinery and electrical equipment.

1.They feature excellent performance, reliable operation, low energy consumption, small size, safe wiring, convenient installation and wide applicability.

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

JBK5 Series Machine tool control transformer

TYPE	Overall dimensions			Mounting dimensions		mounting hole	Notes
	Length	Width	Height	Length	Width		
JBK5-40、63	78	72	90	56	46	4.6	
JBK5-100	84	75	96	64	62	4.6	
JBK5-160	96	92	105	84	73.5	5.5	
JBK5-250	96	100	104	84	85	5.8	
JBK5-400	120	100	122	90	85	5.8	
JBK5-500	120	110	122	90	96	5.8	
JBK5-630	150	110	140	122	90	7	
JBK5-800	150	128	142	122	105	7	
JBK5-1000	150	190	142	126	152	7	horizontal
JBK5-1000	168	125	155	138	105	9	vertical
JBK5-1600	170	225	153	140	176	7	horizontal
JBK5-1600	168	138	155	138	116	9	vertical
JBK5-2500	194	250	170	170	200	7	horizontal
JBK5-3000	194	250	190	170	200	7	horizontal
JBK5-4000	194	250	200	170	200	7	horizontal
JBK5-5000	220	286	215	208	240	9	horizontal