HBK Series Voltage Transformer

Standard: IEC 61558-2-2

Features

- EI shell structure with characteristic of simple structure and strong anti-seismic capacity
- I-type coil frame, simple winding process, high level automation and good product consistency.
- Self-design protective terminal blocks with advantages of good safety performance, convenient use for users and high production efficiency
- Strong load capacity and overvoltage capacity from aspects of product design, manufacturing, temperature rise, insulating property and accessory selection

Order Requirement

- Multi-input voltage or multi-output voltage can be customized if required;
- Seperated voltage using on both input and output side is recommended;
- In principle, input/output voltage between 0-1200V can be customized if required;
- Isolation layer is compulsory if input voltage equals to output voltage; other conditions should be judged according to actual application requirements.

Technical Parameters

Rated Voltage	**≤1200V**
Rated Frequency	50Hz, 60Hz
Insulation Resistance	≥5MΩ
Insulation Class	B
Rated Duty	Uninterrupted Duty
Standard	IEC 61558-2-2

Applications

HBK control transformer is applied to the electrical system of the machine tool and other mechanical equipments which is used as the power supply of the voltage circuit, lighting circuit, signaling circuit and electronic device; it also has two or more than two-electrical-isolated – winding transformer.

Working and Installation Conditions

Altitude	**≤2000m**
Ambient temperature	-5℃ ~ +40℃
Relative humidity	Monthly average maximum relative humidity is 90% during the wettest month; at the same month, the monthly average temperature is +25℃.
Operating environment	a. In medium without explosion hazard, where no air might corrode metal and destroy insulation or no conductive dust existing
	b. No violent vibration or bump
	c. The place where is no invasion of rain and snow
	d. The power supply voltage waveform is similar to sine wave
	e. The difference of power supply voltage is less or equals to ±5%

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Coding System

Product	Rated Capacity	Voltage Ratio (input/output)	Isolation	Transformer Type	Voltage Type
HBK	1000	E9	G	M	C
	↓	↓	↓	↓	↓
	00025: 25VA 00050: 50VA 00060: 60VA 00063: 63VA 00100: 100VA 00150: 150VA 00200: 200VA 00250: 250VA 00300: 300VA 00400: 400VA 00500: 500VA 00600: 600VA 00630: 630VA 00700: 700VA 00800: 800VA 01000: 1000VA 01200: 1200VA 01500: 1500VA 02000: 2000VA 02500: 2500VA 03000: 3000VA 04000: 4000VA 05000: 5000VA 06000: 6000VA 07000: 7000VA 08000: 8000VA 10000: 10kVA 15000: 15kVA 20000: 20kVA	D1: 380V/220V D2: 380V/36V D3: 380V/24V D7: 220V/220V D8: 220V/36V D9: 220V/24V D5V: 380V/5V E1: 400V/230V E7: 230V/230V E8: 230V/36V E9: 230V/24V E5V: 230V/5V F1: 240V380V 415V/12V24V110V F2: 230V380V415V /12V24V230V	Default: no isolation G: isolation	Default: single-input & single-output type M: Multi-input & Muti-output type	C: Center-tapped Winding S: Separate Winding





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Order Information

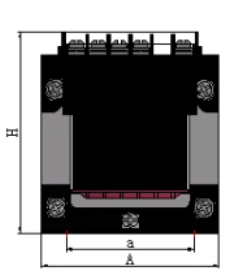
Model	Rated Capacity (VA)	Voltage Ratio (input/output)	Isolation	Reference
HBK-10kVA 380V/220V	1000	380V/220V	No	HBK10000D1
HBK-10kVA 380V/36V	1000	380V/36V	No	HBK10000D2
HBK-10kVA 380V/24V	1000	380V/24V	No	HBK10000D3
HBK-10kVA 220V/220V with isolation	1000	220V/220V	Yes	HBK10000D7G
HBK-10kVA 220V/36V	1000	220V/36V	No	HBK10000D8
HBK-10kVA 220V/24V	1000	220V/24V	No	HBK10000D9
HBK-10kVA 380V/5V	1000	380V/5V	No	HBK10000D5V
HBK-10kVA 400V/230V	1000	400V/230V	No	HBK10000E1
HBK-10kVA 230V/230V with isolation	1000	230V/230V	Yes	HBK10000E7G
HBK-10kVA 230V/36V	1000	230V/36V	No	HBK10000E8
HBK-10kVA 230V/24V	1000	230V/24V	No	HBK10000E9
HBK-10kVA 230V/5V	1000	230V/5V	No	HBK10000E5V

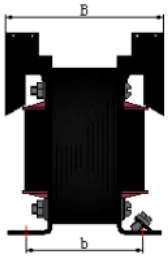
Note: Other order information can follow the coding system of HBK.

HBK Series Control Transformer

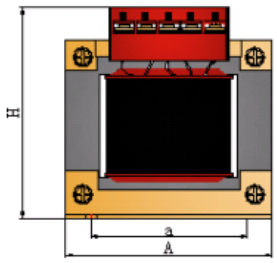
Standard: IEC 61558-2-2

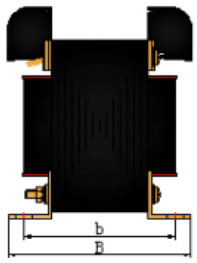
Outline dimensions and installation dimensions





25VA — 200VA





250VA — 1000VA

Parameters of outline dimensions and installation dimensions

HBK Series		
Capacity (VA)	Outline Dimensions A×B×H (mm)	Installation Dimensions a×b (mm)
25	78×69×90	56×50
50	78×69×90	56×50
100	84×83×94	64×64
150	102×88×109	76×65
200	102×94×109	76×71
250	120×107×123	90×77
300	120×113×123	90×83
400	132×117×132	110×93
500	132×122×132	110×98
1000	150×137×147	110×113
1500	180×254×205	150×140
2000	180×270×205	150×156
2500	192×310×215	160×160
3000	192×315×215	160×165
4000	240×340×245	180×170
5000	240×350×245	180×180
10000	300×370×310	240×180