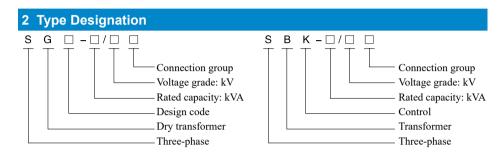


SG (SG10), SBK Series Three-Phase Dry Transformer



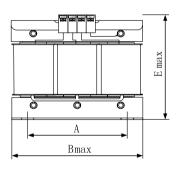
1 Overview

SG(SG10), SBK series three-phase dry transformer (hereinafter referred to as transformer) is used in the AC 50/60Hz circuit with the rated voltage up to 1200V as the power supply of the energy storage, control, lighting and indicator for mechanical equipment, various machine tools electric apparatuses, and photovoltaic wind power set, and it can also be used as miniature power supply and rectifier power supply. The SBK is of the open type, and the SG is of the protection type.



Outline and Installation Dimensions 3

3.1 SBK series open type dry transformer outline dimensions (see Table, Fig. 1, Fig. 2). 3.2 SBK series protection type dry transformer outline dimensions (see Table, Fig. 3, Fig. 4, Fig. 5).



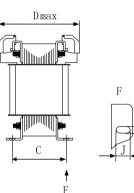
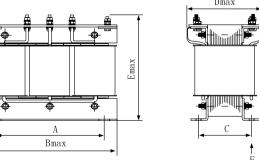
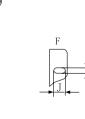
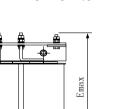


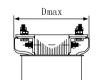


Fig. 1 Open type 5kVA and below (SBK)



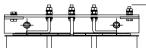










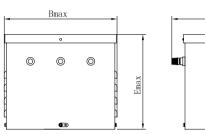


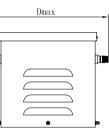


SG (SG10), SBK Series Three-Phase Dry Transformer

Fig. 3 Protection type 3kVA and below







Λ

Fig. 4 Protection type (4kVA ~ 45 KVA)



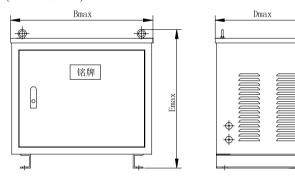
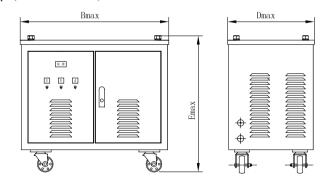
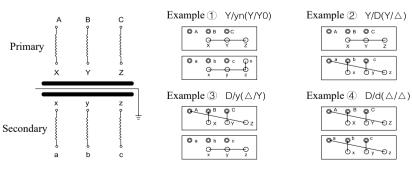


Fig. 5 Protection type (50kVA ~ 500 KVA)



Electrical schematic diagram

Connection group diagram





SG (SG10), SBK Series	Three-Phase I	Dry Transformer
-----------------------	---------------	-----------------

	Rated voltage (V)		Open type			Protection type	
Model & Spec.			Outline dimensions (max)	Installation dimensions (±5)	Mounting hole	Outline dimensions (max)	Installation dimensions
Spee.	Input	Output	B×D×E (mm)	A×C (mm)	К×Ј	B×D×E (mm)	K×J
SG-0.1			$125 \times 100 \times 125$	90 imes 55	6×12	$245 \times 240 \times 215$	
SG-0.3			$155 \times 110 \times 155$	110×66	0//12	210//210//210	
SG-0.5			$185 \times 140 \times 185$	130×85			
SG-0.75			$185 \times 150 \times 185$	130×92	8×16	$285 \times 270 \times 235$	
SG-1			$185 \times 160 \times 185$	130×103	0/10		
SG-1.5			$235 \times 170 \times 225$	180×105		$325 \times 325 \times 280$	—
SG-2			$270\!\times\!190\!\times\!255$	200×110			
SG-2.5			$270\!\times\!190\!\times\!255$	200×118		$365 \times 330 \times 320$	
SG-3			$270 \times 200 \times 255$	200×126	1		
SG-4	690	660	$305 \times 210 \times 305$	220×135	10×22	$400 \times 330 \times 400$	
SG-5			$305 \times 220 \times 305$	220×135			
SG-6			$365 \times 220 \times 350$	260×135		460×370×430	
SG-8	660	380	$365 \times 240 \times 350$	260×145			
SG-10			$425 \times 260 \times 400$	320×145		$520 \times 400 \times 465$	
SG-15	400	220	$425 \times 280 \times 400$	320×160		5207 1007 105	
SG-20			$480 \times 320 \times 460$	360×160	12×25		
SG-25	380) 200	$480 \times 340 \times 460$	360×170	-	$600 \times 470 \times 540$	With caster
SG-30	000		$480 \times 350 \times 460$	360×180			
SG-40			$540 \times 350 \times 550$	400×190		$680 \times 500 \times 680$	
SG-50			以定制为准	以定制为准	ф13	850×600×820	
SG-60			以定制为准	以定制为准			
SG-80		以定制为准	以定制为准	-	$1000 \times 700 \times 900$		
SG-100		以定制为准	以定制为准				
SG-125			以定制为准	以定制为准		1900 × 750 × 1000	
SG-150			以定制为准	以定制为准	φ15	$1200 \times 750 \times 1020$	Without caster
SG-200			以定制为准	以定制为准	Ψ10	10003/0003/1150	
SG-250		以定制为准	以定制为准		$1300 \times 800 \times 1150$		

Notes:

- 1. The dimensions listed in the above table are for reference: SG-50KVA and above has cylindrical iron core that shall be specially customized, and the installation dimensions are determined according to the materials. The product dimensions of the Al line with the current of greater than 250A and with the voltage of greater than 800V are changed, and shall be customized.
- 2. Any of the rated input and output voltages listed in the table can be selected according to the requirements.
- 3. Any voltage and dimension not listed in the above table shall be specially customized according to the user's requirements through the negotiation.

4. The terminal blocks of SG-3kVA and below protection type product are located outside the housing, as shown in Fig. 3.

SG-3kVA and below protection type product has housing, and the voltmeter, ammeter, air cooling system and wheels are added according to the user's requirements, as shown in Fig. 4 and Fig. 5.



SG (SG10), SBK Series Three-Phase Dry Transformer

4 Normal working and installation conditions

- 4.1 The altitude does not exceed 2000m.
- 4.2 The maximum ambient temperature is +40°C, and the minimum temperature is -5°C.
- 4.3 The relative humidity of the atmosphere air does not exceed 50% at the ambient temperature +40°C, and higher relative humidity is allowed at lower temperatures. The maximum relative humidity is 90% (at +25°C).
- 4.4 There is no dirt and explosive medium that severely affect the insulation of transformer and no corrosive harmful gas or dust in the ambient air; during operation, the transformer shall not be subject to natural erosion.
- 4.5 There is no severe vibration and bump at the installation site.
- 4.6 The power voltage waveform is a sine wave, and the three-phase power supply is approximately symmetrical.

5 Structure Features

SG series three-phase dry transformer can be of the open type (SBK) and protection type, featuring with low loss, small noise, good performance, and non-pollution to the environment. For protection type, the housing is made of cold-rolled steel plate, and the transformer is installed inside and there are inlet and outlet holes on the housing for convenient installation of power line. In addition, for protection type, the voltage and current monitoring meters, axial current cooling fan and steering wheels can be added according to the user's requirements for convenient movement.

6 Ordering Notice

- 6.1 Product name: Three-phase dry transformer.
- 6.2 Product model: SG-10/0.5.
- 6.3 Output capacity: 10kVA.
- 6.4 Frequency: 50z.
- 6.5 Rated input voltage (refer to line voltage): 380V.
- 6.6 Rated output voltage (refer to line voltage): 220V.
- 6.7 Connection method: "Y" for input, "d" for "Y/d" for output
- 6.8 Open type or protection type: Protection type
- 6.9 Whether an isolation shield is required or not shall be specified when ordering.

Note: If out of the normal working environment range (such as temperature, and altitude), special customization is required.