

Production introduction

Our company has developed this product by ourselves. As a high performance, high safety, pollution free dry-type transformer, it is suitable for the harsh environments where there is a high fire protection requirement, the great load fluctuation and the site where is of filth and moisture. For example: airport, power plant, metallurgy operation, hospital, high building shopping center, densely inhabited area, petrochemical industry, nuclear power station and nuclear submarine, etc.

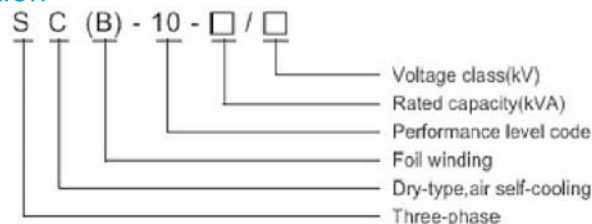
Normal service conditions

1. A unique ceramic type of insulation structure is adopted in H-class high strength insulation cylinders and high-frequency ceramic cushion blocks are adopted to ensure that no deformation will occur.
2. The high-voltage and low-voltage windings are made of NOMEX wrapped flat copper wires and imported copper foils. And they are sealed with high strength insulation materials.
3. The iron core is made of laminated imported high-quality silicon-steel sheets of high magnetic conductivity with a 45 stepwise all-bias structure. A flexible fastening unit is adopted to fasten the winding and iron core, which ensures a relatively low no-load loss and low noise.
4. Outlet terminals are fixed to the top of winding, taps are in the middle of winding, low-voltage line terminal are in plate-type current-conducting rows for which cold pressure welding is adopted.

Normal service conditions

- 1) Altitude should not be over 1000m: indoor type
- 2) Highest ambient temperature should not over: +40°C; Highest daily average should not over temperature: +30°C
- 3) Highest annual average temperature should not over +20°C, lowest temperature should not below -5°C. We can provide transformer operated in special conditions according to user's requirement.

Model designation



SG(B)10-100-2500/10

Applicable standards

- GB6450-1986 Dry-type power transformer
- GB/T10228-1997 Technical parameters and requirements for dry-type power transformer
- GB/T17211-1998 Guide rules for dry-type power transformer load
- GB10237-1998 Insulation level and insulation test for power transformer
- GB4208-1993 Casing protection grade (IP code)
- JB/10008-1999 6~220KV transformer sound level
- JB/T56009-1998 Product quality grading for dry-type power transformer

Performance characteristics

1. Excellent heat dissipation, long thermal life, good overload capacity, without forced air-cooling under a long-term 120% overload and IP45 condition. It can operate for a long time at full load.
2. Extremely high safety fire resistance performance, smoke-free while burning under a temperature as high as 800°C.
3. Extremely high thermal shock resistance capacity.
4. 100% water-proof, excellent moisture-proof.
5. Unique winding structure and field strength calculation makes partial discharge impossible.
6. Low loss and significant energy saving effect. Compared with SC9 series of dry-type transformers, the no-load loss falls 10% and load loss falls 5% in average.
7. The insulation material and copper conductor can be dismantled easily and recycled after the service life. Therefore, no pollution will occur.

Notes for placing orders

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Transformer type:rated capacity kVA

Number of phases:three-phase single-phase

High voltage: KV/Low voltage:KV

Frequency:50HZ 60HZ

Tapping range:±4×2.5% ±3×2.5% other

Connection group:Yyn0 Dyn11 other

Impedance voltage:4% 6% other

Cooling method: ONAN ONAF

Protecting grade of outer casing:IP00 IP20 IP30 other

Method of incoming and outgoing line:

1.Incoming line to lower part and outgoing line from upper part

2.Incoming line to upper part and outgoing line form upper part

3.Incoming line to upper part and outgoing line form side part

4.other

*If customer has no requirement,the color of outer casing is light grey(the standard color of ANDELI),or you could indicate color code that you want

Main technical parameters of SG(B)10-100~2500/10 series of transformers

Rated capacity(kVA)	Voltage combination(kV)		Connecting group	No-load loss(W)	Load-loss(W)	Short circuit impedance(%)	No-load current(%)	Tap range(%)	IP00 (mm)				Gross weight(kg)	IP20 (mm)				Gross weight(kg)	High voltage connection end (mm)	Low voltage connection end (mm)
	High voltage(kV)	Low voltage(kV)							Length	Width	Height	Weight		Length	Width	Height	Weight			
10	6, 6.3, 10	0.4, 0.6, 1, 1.5, 2.5, 3, 4, 6, 10	Yyn0 or Dyn11	485	2185	1765	2.5	48	1800	520	1820	405	720	1360	1030	1430	885	M10	(x)43+4	
12.5				480	2580	2115	1.8	42	1800	520	1900	400	880	1380	1030	1430	1360	M10	(x)43+4	
160				555	3130	2520	1.8	42	1850	670	1960	350	880	1500	1190	1430	1120	M10	(x)43+4	
200				650	3970	3240	1.6	42	1870	670	1930	350	960	1580	1190	1430	1120	M10	(x)43+4	
250				760	4675	3815	1.6	43	1980	670	1950	350	1070	1580	1190	1430	1300	M10	(x)43+4	
315				880	5610	4575	1.1	45	1930	780	1220	500-480	1260	1580	1230	1430	1400	M10	(x)43+4	
400				1040	6630	5410	1.4	45	1970	780	1290	600	1350	1580	1250	1430	1600	M10	(x)43+4	
500				1250	7945	6400	1.4	45	1220	780	1350	600	1570	1780	1250	1430	1900	M10	(x)43+4	
630				1400	9285	7560	1.3	45	1300	780	1380	600	1760	1780	1250	1430	1950	M10	(x)43+4	
800				1545	9775	7975	1.3	45	1350	780	1290	600	1850	1780	1250	1430	1950	M10	(x)43+4	
1000	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100	0.4, 0.6, 1, 1.5, 2.5, 3, 4, 6, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100	Yyn0 or Dyn11	1805	11500	9430	1.3	46	1450	940	1295	600-520	2050	1960	1530	1850	2340	M10	(x)43+4	
1250				1905	13345	10605	1.1	46	1470	940	1360	600-520	2310	1960	1530	1850	2600	M10	(x)43+4	
1600				2305	15640	12700	1.1	47	1570	940	1515	820	2790	1960	1530	2000	3100	M10	(x)43+4	
2000				2735	18185	14770	1.1	48	1860	940	1680	820-1870	3500	1960	1530	2000	3810	M10	(x)43+4	
2500				3320	21250	17335	1.0	49	1710	1390	1750	820-1870	4200	2180	1650	2000	4600	M10	(x)43+4	
3000				4000	24735	20100	1.0	49	1750	1190	1815	820-1870	4725	2180	1650	2000	5200	M10	(x)43+4	