

TRANSFORMER

SG(B)10-100 -2500/10

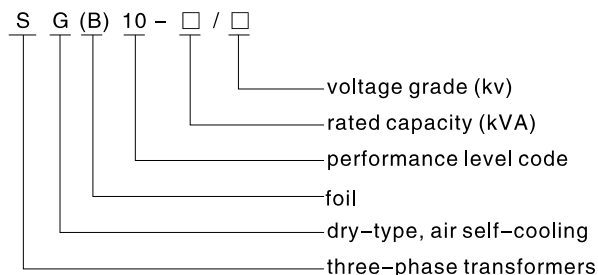
Series H-level insulated three phase
dry type power transformer



Application

This series of products are independently developed by our company with reference to the German MORA technology, which are environment-friendly dry type transformers of high performance and high security. It can be applied to dirty and moist environment with high fire-preventing demand and dramatically varying loads, such as airports, power plants, metallurgy workshops, hospitals, high-rises, shopping malls, populated residential areas, and petro-chemical plants, nuclear stations, nuclear submarines.

Model designation



Standards

- 1.GB1094.11-2007 dry type power transformer
 - 2.Technical parameters and requirements of GB/T10228-2015 dry type power transformer
 - 3.Loading guide for GB/T17211-1998 dry type power transformer
- Insulation level and insulation experiment of GB10237-1998 power transformer
GB4028-1993 shell protection grade (IP code)
Noise level of T1008-1998 6-220kV transformer
Quality grading of JB/T56009-1998 dry type power transformer

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Capability characteristics

1. Good heat dissipating conditions, long heat aging period, extreme over-load capacity, capable of long-term 120% overload, without forced wind-cooling under IP45, capable of full-load operation for a long term.
2. Extremely high safety and anti-burning feature, lasting burning at a high temperature of 800°C without emitting any smog.
3. Extremely strong heat resisting capability (be immediately fully loaded at -50°C).
4. 100% water-proof, excellent water repellence and moisture resistance.
5. Unique winding structure and intense field calculation, with scarce partial discharge.
6. Low loss with great energy-saving effect, no-load loss down by 10% on average and load loss down by 5% compared with SC9 series dry type transformer.
7. Insulation materials and copper wires can be easily recycled after life cycle without environment pollution.

Structural characteristics

1. Unique ceramic-insulating structure, the shape can be kept permanently with adoption of the insulated cylinder and high-frequency ceramic padding block of MORA Company.
2. High and low windings are first processed with NOMEX insulation materials, then immersed in special-recipe H-level insulation materials for times through VPI vacuum pressure boosting equipment, next after many times of baking, sealed externally with high-strength insulation materials, and solidified under high temperature. High voltage windings adopt continuous structure of high mechanical strength and good heat dissipating conditions.
3. The iron core is made of layered imported high-quality highly-conductive magnetic silicon steel sheets and adopts stepping 45° wholly sliding structure. The coil and iron core are fixed with flexible devices so that the transformer is of low-level no-load loss and noise. The surface of the iron core is processed with special technology. The iron core can be properly clipped by a pull screw, with the upper and lower clips connected by a pull plate and fixed together with the base and coil, and the coil being fixed by a flexible padding block. Thus the buffer structure can extenuate the coil vibration and reduce the noise.
4. The lead terminal is fixed at the upper part of the coil, with the tap at the middle of the coil. The low-voltage terminal is a conductive plate and adopts cold pressure welding.

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SG(B)10-315-2500/10 series H-level insulated three phase dry type power transformer

rated capacity	voltage combination				no-load loss	load loss	no-load current	short-circuit resistance	Weight	track gauge	overall dimensions	overall dimensions with shell
	high voltage	tapping range	low voltage	connection symbol								
100	6; 6.3; 6.6; 10; 10.5; 11;	±5% or ±2× 2.5%;	0.4	Yyn0 or Dyn11	480	1880	2.0	4	700	660×400	980×500×920	1340×900×1150
160					560	2700			750	660×400	1020×500×960	1400×900×1200
200					620	3100			880	660×400	1050×500×1150	1450×900×1400
250					760	3850	1.8	6	1050	660×400	1090×500×1310	1450×900×1550
315					880	4600			1380	660×660	1240×770×1355	1600×1100×1600
400					1040	5400	1.4	6	1750	820×820	1310×960×1390	1700×1100×1650
500					1200	6600			1880	820×820	1370×630×1400	1750×1100×1700
630					1340	8050	1.2	6	1950	820×820	1400×960×1445	1800×1250×1750
800					1690	9500			2200	820×820	1470×960×1495	1850×1250×1800
1000					1980	11400	1.0	6	2490	820×820	1510×960×1505	1900×1250×1800
1250					2380	12500			3050	1070×1070	1620×1255×1585	2000×1300×1850
1600					2730	14900	1.0	6	3690	1070×1070	1660×1588×1675	2050×1300×2000
2000					3320	17500			4400	1070×1070	1730×1255×1840	2100×1350×2150
2500					4000	20300			4940	1070×1070	1780×1288×1930	2150×1350×2200