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Address : uling Industrial Park,
Jiyuan city, Henan Province, China
Postcode : 459000
Telephone : 0391-2180800
Faxes : 0391-2180818
E-mail : fengyuan800@outlook.com
URL: www.switchgear-china.com

www.switchgear-china.com

TRANSFORMER INSTRUCTIONS

HENAN FENGYUAN ELECTRIC POWER TECHNOLOGY CO. LTD

35KV SERIES OIL-IMMERSED POWER TRANSFORMERS

THIS PART OF THE PRODUCTS ARE DIVIDED INTO LOW-VOLTAGE 400V DISTRIBUTION TRANSFORMER AND LOW-VOLTAGE 3150~11000V POWER TRANSFORMER. THE DESIGN SERIAL NUMBER IS "11", AND "13" PRODUCTS, VOLTAGE REGULATION FOR ON-LOAD VOLTAGE REGULATION AND NO EXCITATION VOLTAGE REGULATION.

MEANING OF PRODUCT MODEL

S F Z □ -50000/35

- Three phase
- Forced air cooling (No F is self-cooling)
- On-load voltage regulation (No Z means no excitation voltage regulation)
- Design a sequence number
- Rated capacity (kVA)
- Rated voltage (kV)

TABLE OF TECHNICAL PARAMETERS OF 35KV CLASS S11 NON-EXCITATION VOLTAGE REGULATING POWER TRANSFORMER

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	Load loss (kW)	No-load current (%)	Short circuit impedance (%)
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)					
S11-50/35	50	35 38.5	±5 ±2×2.5	0.4	Dyn11 Yyn0	0.16	1.20/1.14	1.3	6.5
S11-100/35	100					0.23	2.01/1.91	1.1	
S11-125/35	125					0.27	2.37/2.26	1.1	
S11-160/35	160					0.28	2.82/2.68	1	
S11-200/35	200					0.34	3.32/3.16	1	
S11-250/35	250					0.40	3.95/3.76	0.95	
S11-315/35	315					0.48	4.75/4.53	0.95	
S11-400/35	400					0.58	5.74/5.47	0.85	
S11-500/35	500					0.68	6.91/6.58	0.85	
S11-630/35	630					0.83	7.86	0.65	
S11-800/35	800					0.98	9.40	0.65	
S11-1000/35	1000					1.15	11.50	0.65	
S11-1250/35	1250					1.40	13.90	0.6	
S11-1600/35	1600					1.69	16.60	0.6	
S11-2000/35	2000					1.99	19.70	0.55	
S11-2500/35	2500					2.36	23.20	0.55	

Note1: For transformers with rated capacity of 500kVA and below, the load loss above the oblique line in the table applies to the Dyun11 connection group and the load loss below the oblique line applies to the Yyn0 connection group.
Note2: Transformers with high voltage tapping range of ±2*2.5% May be provided according to user requirements.

TABLE OF TECHNICAL PARAMETERS OF 35KV CLASS S11 NON-EXCITATION VOLTAGE REGULATING POWER TRANSFORMER

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	Load loss (kW)	No-load current (%)	Short circuit impedance (%)
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)					
S11-630/35	630	35	±5 ±2×2.5	3.15 6.3 10.5	Yd11	0.83	7.86	0.65	6.5
S11-800/35	800					0.98	9.40	0.65	
S11-1000/35	1000					1.15	11.50	0.65	
S11-1250/35	1250					1.40	13.90	0.55	
S11-1600/35	1600					1.69	16.60	0.45	
S11-2000/35	2000					2.17	18.30	0.45	
S11-2500/35	2500					2.56	19.60	0.45	
S11-3150/35	3150	35 38.5	±2×2.5	3.15 6.3 10.5		3.04	23.00	0.45	7.0
S11-4000/35	4000					3.61	27.30	0.45	
S11-5000/35	5000					4.32	31.30	0.45	
S11-6300/35	6300					5.24	35.00	0.45	8.0
S11-8000/35	8000					7.20	38.40	0.35	
S11-10000/35	10000	35 38.5	±2×2.5	3.15 3.3 6.3 6.6 10.5 11	YNd11	8.70	45.30	0.35	
S11-12500/35	12500					10.00	53.80	0.3	
S11-16000/35	16000					12.10	65.80	0.3	
S11-20000/35	20000					14.40	79.50	0.3	
S11-25000/35	25000					17.00	94.00	0.25	10.0
S11-31500/35	31500					20.20	112.00	0.25	
S11-40000/35	40000					24.40	137.47	0.25	

Note1: Transformers with rated voltage capacity of 6300kVA and below may provide products with high voltage tap range of ±2×2.5.
Note2: for transformers with low voltage voltage of 10.5kV and 11kV, products with connection group label Dyn11 may be provided.
Note3: voltmeters with rated capacity of 3150kVA and below, with -5% tap position for maximum current tap.

TABLE OF TECHNICAL PARAMETERS OF TYPE SZ11 ON-LOAD REGULATING POWER TRANSFORMER OF 35KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	Load loss (kW)	No-load current (%)	Short circuit impedance (%)
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)					
SZ11-2000/35	2000	35	±3×2.5	6.3 10.5	Yd11	2.30	19.20	0.5	6.5
SZ11-2500/35	2500					2.72	20.60	0.5	
SZ11-3150/35	3150	35 38.5	±3×2.5	6.3 10.5		3.23	24.70	0.5	7.0
SZ11-4000/35	4000					3.87	29.10	0.5	
SZ11-5000/35	5000					4.64	34.20	0.5	
SZ11-6300/35	6300					5.63	36.70	0.5	8.0
SZ11-8000/35	8000	35 38.5	±3×2.5	6.3 6.6 10.5 11	YND11	7.87	40.60	0.4	
SZ11-10000/35	10000					9.28	48.00	0.4	
SZ11-12500/35	12500					10.90	56.80	0.35	
SZ11-16000/35	16000					13.10	70.30	0.35	
SZ11-20000/35	20000					15.50	82.70	0.35	
SZ11-25000/35	25000					18.30	97.80	0.3	10.0
SZ11-31500/35	31500					21.80	116.00	0.3	
SZ11-40000/35	40000					26.10	140.00	0.3	

Note1: for transformers with low voltage voltage of 10.5kV and 11kV, products with connection group label Dyn11 may be provided.
Note2: The maximum current tap is at the tap position of -7.5%.

TABLE OF TECHNICAL PARAMETERS OF 35KV CLASS S13 NON-EXCITATION VOLTAGE REGULATING POWER TRANSFORMER

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	Load loss (kW)	No-load current (%)	Short circuit impedance (%)
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)					
S13-630/35	630	35	±5	3.15 6.3 10.5	Yd11	0.70	7.86	0.65	6.5
S13-800/35	800					0.83	9.40	0.65	
S13-1000/35	1000					0.97	11.50	0.65	
S13-1250/35	1250					1.19	13.90	0.55	
S13-1600/35	1600					1.44	16.60	0.45	
S13-2000/35	2000					1.84	18.30	0.45	
S13-2500/35	2500					2.17	19.60	0.45	
S13-3150/35	3150	35 38.5	±5	3.15 6.3 10.5		2.58	23.00	0.45	7.0
S13-4000/35	4000					3.07	27.30	0.45	
S13-5000/35	5000					3.66	31.30	0.45	
S13-6300/35	6300					4.45	35.00	0.45	7.5
S13-8000/35	8000	35 38.5	±2×2.5	3.15 3.3 6.3 6.6 10.5 11	YND11	6.11	38.40	0.35	
S13-10000/35	10000					7.39	45.30	0.35	
S13-12500/35	12500					8.56	53.80	0.3	
S13-16000/35	16000					10.30	65.80	0.3	
S13-20000/35	20000					12.20	79.50	0.3	
S13-25000/35	25000					14.40	94.00	0.25	8
S13-31500/35	31500					17.10	112.00	0.25	
S13-40000/35	40000					20.70	137.47	0.25	

Note1: Transformers with rated voltage capacity of 6300kVA and below may provide products with high voltage tap range of ±2×2.5.
Note2: for transformers with low voltage voltage of 10.5kV and 11kV, the product with connection group label Dyn11 may be picked.
Note3: for transformers with rated capacity of 3150kVA and below, the -5% tap position is the maximum current tap.

TABLE OF TECHNICAL PARAMETERS OF TYPE SZ13 ON-LOAD REGULATING POWER TRANSFORMER OF 35KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	Load loss (kW)	No-load current (%)	Short circuit impedance (%)
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)					
SZ13-2000/35	2000	35	±3×2.5	6.3 10.5	Yd11	1.95	19.20	0.5	6.5
SZ13-2500/35	2500					2.31	20.60	0.5	
SZ13-3150/35	3150	35 38.5	±3×2.5	6.3 10.5		2.74	24.70	0.5	7.0
SZ13-4000/35	4000					3.29	29.10	0.5	
SZ13-5000/35	5000					3.94	34.20	0.5	
SZ13-6300/35	6300					4.78	36.70	0.5	8.0
SZ13-8000/35	8000	35 38.5	±3×2.5	6.3 6.6 10.5 11	YND11	6.65	40.60	0.4	
SZ13-10000/35	10000					7.85	48.00	0.4	
SZ13-12500/35	12500					9.30	56.80	0.35	
SZ13-16000/35	16000					11.19	70.30	0.35	
SZ13-20000/35	20000					13.22	82.70	0.35	
SZ13-25000/35	25000					15.90	97.80	0.3	10.0
SZ13-31500/35	31500					18.70	116.00	0.3	
SZ13-40000/35	40000					22.30	140.00	0.3	

Note1: for transformers with low voltage voltage of 10.5kV and 11kV, products with connection group label Dyn11 may be provided.
Note2: The maximum current tap is at the tap position of -7.5%.

TECHNICAL PARAMETERS OF 20KV CLASS S11 OIL-IMMERSED POWER TRANSFORMER

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	Load loss (kW)	No-load current (%)	Short circuit impedance (%)
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)					
S11-M-30/20	30	20	±5 ±2×2.5	0.4	Dyn11 Yyn0	80	660/630	1.5	5.5
S11-M-50/20	50					110	960/920	1.3	
S11-M-63/20	63					120	1140/1100	1.2	
S11-M-80/20	80					150	1370/1310	1.2	
S11-M-100/20	100					160	1650/1570	1.1	
S11-M-125/20	125					200	1980/1890	1.1	
S11-M-160/20	160					240	2420/2300	1.0	
S11-M-200/20	200					270	2850/2720	1.0	
S11-M-250/20	250					320	3350/3190	0.9	
S11-M-315/20	315					390	4000/3810	0.9	
S11-M-400/20	400					460	4730/4500	0.8	
S11-M-500/20	500					550	5650/5380	0.8	
S11-M-630/20	630					650	6480	0.6	6
S11-M-800/20	800					790	7840	0.6	
S11-M-1000/20	1000					920	10700	0.6	
S11-M-1250/20	1250					1110	12540	0.5	
S11-M-1600/20	1600					1330	15160	0.5	
S11-M-2000/20	2000					1560	18190	0.4	
S11-M-2500/20	2500					1870	21110	0.4	

Note: 1. For transformers with rated capacity of 500kVA and below, the load loss values above the slash in the table are applicable to the Dyn11 connection group and the load values below the slash are applicable to the Yyn0 connection group.

TECHNICAL PARAMETERS OF 20KV CLASS S13 OIL-IMMERSED POWER TRANSFORMER

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	Load loss (kW)	No-load current (%)	Short circuit impedance (%)
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)					
S13-M-30/20	30	20	±5 ±2×2.5	0.4	Dyn11 Yyn0	64	660/630	1.5	5.5
S13-M-50/20	50					88	960/920	1.3	
S13-M-63/20	63					96	1140/1100	1.2	
S13-M-80/20	80					120	1370/1310	1.2	
S13-M-100/20	100					128	1650/1570	1.1	
S13-M-125/20	125					160	1980/1890	1.1	
S13-M-160/20	160					192	2420/2300	1.0	
S13-M-200/20	200					216	2850/2720	1.0	
S13-M-250/20	250					256	3350/3190	0.9	
S13-M-315/20	315					312	4000/3810	0.9	
S13-M-400/20	400					368	4730/4500	0.8	
S13-M-500/20	500					440	5650/5380	0.8	
S13-M-630/20	630					520	6480	0.6	6
S13-M-800/20	800					632	7840	0.6	
S13-M-1000/20	1000					736	10700	0.6	
S13-M-1250/20	1250					888	12540	0.5	
S13-M-1600/20	1600					1064	15160	0.5	
S13-M-2000/20	2000					1248	18190	0.4	
S13-M-2500/20	2500					1496	21110	0.4	

Note: 1. For transformers with rated capacity of 500kVA and below, the load loss values above the slash in the table are applicable to the Dyn11 connection group and the load values below the slash are applicable to the Yyn0 connection group.

TYPE S11 (S13) OIL-IMMERSED POWER TRANSFORMER

PRODUCT MODEL LETTER MEANING

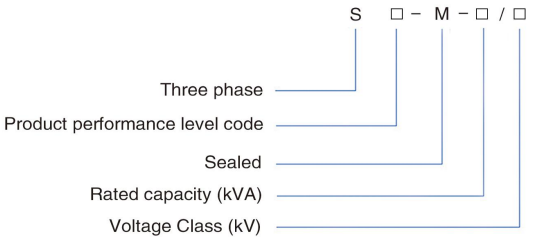
S–Three phase

□–Product performance level code

M–Sealed

□–Rated capacity (kVA)

□–Voltage Class (kV)



APPLIED RANGE

S11(S13) three–phase fully sealed oil–immersed power transformer, suitable for 10KV class, 50Hz power distribution system, as the current Replacement product of S9(S10), for industrial and mining enterprises, residential areas, rural power lighting use.

PRODUCT FEATURE

S11(S13) three–phase fully sealed oil–immersed power transformer is a new energy–saving product, with leading performance and technology, advanced technology, novel structure, beautiful appearance and other characteristics.

1. Adopt high–quality cold–rolled silicon steel with high permeability grain orientation, reduce no–load loss by 25%~40%, no–load current by 40%~70% and noise by 5~10dB(A) with the same capacity as S9.
2. High voltage coil adopts novel structure, strong winding, high mechanical strength, strong short–circuit bearing capacity, safe and reliable operation.
3. Corrugated oil tank is adopted, and the thermal expansion and cold contraction of trans–former oil is adjusted by the elasticity of corrugated sheets, which is isolated from the air, ex–tends the service life, cancels the oil storage tank, covers a small area, is beautiful in appear–ance, and reduces maintenance.

TECHNICAL PARAMETERS OF 10KV CLASS S11 FULLY SEALED OIL-IMMERSED TRANSFORMER

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	Load loss (kW)	No-load current (%)	Short circuit impedance (%)
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)					
S11-M-30/10	30	6 6.3 10 10.5 11	±5 ±2×2.5	0.4	Dyn11 Yyn0	100	630/600	1.5	4.0
S11-M-50/10	50					130	910/870	1.3	
S11-M-63/10	63					150	1090/1040	1.2	
S11-M-80/10	80					180	1310/1250	1.2	
S11-M-100/10	100					200	1580/1500	1.1	
S11-M-125/10	125					240	1890/1800	1.1	
S11-M-160/10	160					270	2310/2200	1.0	
S11-M-200/10	200					330	2730/2600	1.0	
S11-M-250/10	250					400	3200/3050	0.9	
S11-M-315/10	315					480	3830/3650	0.9	
S11-M-400/10	400					570	4520/4300	0.8	
S11-M-500/10	500					680	5410/5150	0.8	
S11-M-630/10	630					810	6200	0.6	4.5
S11-M-800/10	800					980	7500	0.6	
S11-M-1000/10	1000					1150	10300	0.6	
S11-M-1250/10	1250					1360	12000	0.5	
S11-M-1600/10	1600					1640	14500	0.5	
S11-M-2000/10	2000					1940	17100	0.4	5.0
S11-M-2500/10	2500					2290	20200	0.4	
S11-M-3150/10	3150					2760	24100	0.4	

Note: 1. For transformers with rated capacity of 500kVA and below, the load loss above the oblique line in the table is applicable to the Dyn11 connection group, and the load loss below the oblique line is applicable to the Yyn0 connection group.

TECHNICAL PARAMETERS OF 10KV CLASS S13 FULLY SEALED OIL-IMMERSED TRANSFORMER

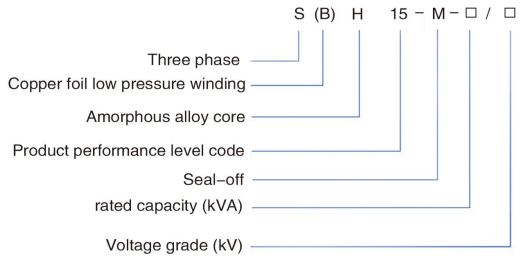
Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	Load loss (kW)	No-load current (%)	Short circuit impedance (%)
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)					
S13-M-30/10	30	6 6.3 10 10.5 11	±5 ±2×2.5	0.4	Dyn11 Yyn0	100	630/600	1.5	4.0
S13-M-50/10	50					130	910/870	1.3	
S13-M-63/10	63					150	1090/1040	1.2	
S13-M-80/10	80					180	1310/1250	1.2	
S13-M-100/10	100					200	1580/1500	1.1	
S13-M-125/10	125					240	1890/1800	1.1	
S13-M-160/10	160					270	2310/2200	1.0	
S13-M-200/10	200					330	2730/2600	1.0	
S13-M-250/10	250					400	3200/3050	0.9	
S13-M-315/10	315					480	3830/3650	0.9	
S13-M-400/10	400					570	4520/4300	0.8	
S13-M-500/10	500					680	5410/5150	0.8	
S13-M-630/10	630					810	6200	0.6	4.5
S13-M-800/10	800					980	7500	0.6	
S13-M-1000/10	1000					1150	10300	0.6	
S13-M-1250/10	1250					1360	12000	0.5	
S13-M-1600/10	1600					1640	14500	0.5	
S13-M-2000/10	2000					1940	17100	0.4	5.0
S13-M-2500/10	2500					2290	20200	0.4	

Note: 1. For transformers with rated capacity of 500kVA and below, the load loss above the oblique line in the table is applicable to the Dyn11 connection group, and the load loss below the oblique line is applicable to the Yyn0 connection group.

S(B)H15 AMORPHOUS ALLOY OIL-IMMERSED POWER TRANSFORMER

PRODUCT MODEL LETTER MEANING

S–Three phase
B–Copper foil low pressure winding
H–Amorphous alloy core
15–Product performance level code
M–Seal–off
□– rated capacity (kVA)
□– Voltage grade (kV)



PRODUCT PRESENTATION

S(B)H15–M amorphous alloy oil–immersed power transformer, as a new technology of energy saving distri–bution equipment, energy saving efficiency mainly comes from the use of a new type of iron based amor–phous alloy material with excellent soft magnetic properties.
S(B)H15–M series products comply with the national standard GB1094 power Transformer and GB/T25446–2010 Oil–Immersed Amorphous alloy core Distribution Transformer Technical Parameters and requirements.This product is suitable for 10KV class, 50Hz power distribution system, as the current S11(S13) replacement products, can be used for industrial and mining enterprises, residential areas, rural power lighting.

PRODUCT FEATURE

Amorphous alloy is a new type of strip material. Amorphous alloy material has no crystal structure, low magnetization power and high resistivity, so the eddy current loss is small.
A new energy saving transformer can be produced by using this material as iron core. The no–load loss is more than 75% lower than the current S11 distribution transformer.
The core is of coil core structure, three–phase five–column type, and the section is rectangular.
The coil is rectangular. The high voltage is wound with acetal enameled wire, while the low voltage is wound with flat wire or copper foil, which increases the capacity of the transformer to withstand short cir–cuit.
The transformer coupling group adopts Dyn11, which avoids the influence of high harmonics, has strong resistance to unbalanced load, and significantly improves the power supply quality.
The transformer adopts vacuum oil filling, which can completely remove the bubbles in the coil and ensure the stable insulation performance.
The oil storage tank is cancelled, and the oil pipe is replaced by corrugated or chip radiator as the cooling component. There is an air cushion above the oil tank, which can be compressed with the volume expan–sion of transformer oil. The transformer oil is isolated from the atmosphere to prevent and mitigate the de–terioration of oil and insulation from moisture, enhance the reliability of operation and avoid maintenance during normal operation.

TECHNICAL PARAMETERS OF 10KV CLASS S(B)H15 AMORPHOUS ALLOY OIL-IMMERSED POWER TRANSFORMER

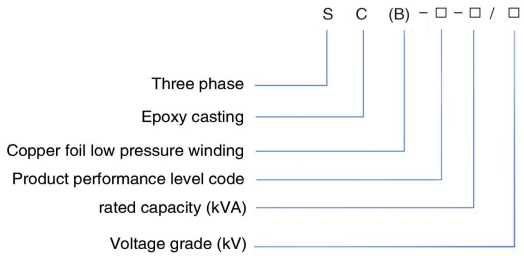
Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	Load loss (kW)	No-load current (%)	Short circuit impedance (%)
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)					
SH15-M-30/10	30	6 6.3 6.6 10 10.5 11	±5 ±2×2.5	0.4	Dyn11 Yyn0 Yzn11	33	630/600	1.5	4.0
SH15-M-50/10	50					43	910/870	1.3	
SH15-M-63/10	63					50	1090/1040	1.2	
SH15-M-80/10	80					60	1310/1250	1.2	
SH15-M-100/10	100					75	1580/1500	1.1	
SH15-M-125/10	125					85	1890/1800	1.1	
SH15-M-160/10	160					100	2310/2200	1.0	
SH15-M-200/10	200					120	2730/2600	1.0	
SH15-M-250/10	250					140	3200/3050	0.9	
SH15-M-315/10	315					170	3830/3650	0.9	
SH15-M-400/10	400					200	4520/4300	0.8	
SH15-M-500/10	500					240	5410/5150	0.8	
SH15-M-630/10	630				Dyn11 Yyn0	320	6200	0.6	4.5
SH15-M-800/10	800					380	7500	0.6	
SH15-M-1000/10	1000					450	10300	0.6	
SH15-M-1250/10	1250					530	12000	0.5	
SH15-M-1600/10	1600					630	14500	0.5	
SH15-M-2000/10	2000					750	17400	0.4	5.0
SH15-M-2500/10	2500					900	20200	0.4	

Note: 1. For transformers with rated capacity of 500kVA and below, the load loss above the oblique line in the table is applicable to the Dyn11 connection group, and the load loss below the oblique line is applicable to the Yyn0 con–nection group.

SC(B) EPOXY - POURED DRY TYPE POWER TRANSFORMER

PRODUCT MODEL LETTER MEANING

S–Three phase
C–Epoxy casting
B–Copper foil low pressure winding
□–Product performance level code
□– rated capacity (kVA)
□– Voltage grade (kV)



PRODUCT PRESENTATION

SC(B)10(Type 11, type 13) Epoxy poured dry transformer is A new type of high efficiency and energy saving transformer. The product adopts high quality high permeability grain oriented cold rolled silicon steel sheet. Compared with SC(B)9 with the same capacity, no–load loss is reduced by 10%~30% and noise is reduced by 5~10dB(A).
SC(B)10(type 11, type 13) epoxy resin poured dry type transformers meet the national standard GB1094 power Transformers and GB/T10228–2008 Dry type Power Transformers Technical Parameters and require–ments.

PRODUCT FEATURE

①Core
High quality cold rolled electrical steel strip composi–tion
②Low–voltage winding
It consists of a whole copper foil coil
③High voltage winding
It consists of vacuum–poured copper foil coils
④Low voltage terminal
It is composed of a copper strip without oxygen
⑤High voltage terminal
The connection mode is variable, which is easy to op–timize the installation design
⑥Elastic pads
Prevent mechanical resonance and reduce noise
⑦Clips and trolley
The trolley wheel can rotate 90° to facilitate longitu–dinal and lateral movement
⑧Today packing resin insulation
With moisture–proof and heat resistance, flame retar–dant and self–extinguishing characteristics

TECHNICAL CHARACTERISTICS OF DRY TYPE TRANSFORMER

SC(B) series epoxy cast dry–type transformer F–grade epoxy resin mixture with filler. After degassing by fill–ing film, under vacuum and pressure, the inner and outer surface of thin–layer casting is placed on the high and low voltage coil reinforced by glass wire forming net, which presents a dry–type transformer with high mechanical strength, electrical strength and heat resistance. Excellent products of urban power grid transfor–mation are especially suitable for important places requiring flame retardant, explosion–proof and mois–ture–proof, such as urban power grid, high–rise buildings, morning center, theatre, hospital, tunnel, subway, underground power station, laboratory, station, wharf, airport and combined substation,have the following characteristics.

PARTIAL DISCHARGE VALUE

The IEC standard stipulates that the local release value of dry–type transformers shall not exceed 10PC qualified under the test voltage of 1.1um, and the unique structure and manufacturing process can reach the local release value of less than 1PC under the test voltage of 1.1um.Even if the test voltage is raised to 2Um according to Siemens standard, the local discharge value is less than 5PC.

STRONG LIGHTNING IMPACT RESISTANCE

The initial distribution of lightning impulse voltage along the winding affects the insulation damage degree of transformer windings. The distribution of foil winding initial voltage is close to linear. Therefore, our transform–er has a good lightning impact resistance ability.

STRONG RESISTANCE TO SHORT CIRCUIT

The copper foil width of the low–voltage winding is the reactance height. The low–voltage current is matched according to the ampere–turns balance between the windings. The axial force of the high–voltage winding and low–voltage winding due to short circuit is almost zero.

GOOD CRACKING RESISTANCE

The transformer of our company adopts packing resin and all copper foil structure. The insulation material is closest to the thermal expansion coefficient of the same conductor, which can effectively prevent the coil cracking.The company has carried out a variety of cracking resistance tests, such as alternating heat and cold test, thermal shock test and rapid aging test. The test results show that our technology can especially meet the use of low temperature, high temperature and wide range of temperature variation, and can meet the re–quirements of cracking resistance after long–term operation.

STRONG OVERLOAD CAPACITY

If the transformer with the same capacity has the same load loss, the copper foil cross–sectional area will be enlarged correspondingly. After the volume increases, the filler resin is used most, so the hot melt of the winding is large, and the transformer has a strong short–term overload capacity.

GOOD FLAME RETARDANT PROPERTY

The dry type transformer produced by our company has the characteristics of free maintenance, mois–ture–proof, damp–proof, flame retardant and self–extinguishing.Under the high temperature combustion of electric arc, no poisonous gas is produced.The excellent flame retardant property of the product was con–firmed in the test.
According to The European HD464 standard, our products meet the requirements of E2, FC2 and F1. They can be used in commercial and residential areas, subways, power plants, ships, offshore drilling and other places with harsh environment and service conditions.

LOW NOISE, LOW LOSS

The transformer of our company adopts some special structure and design, which makes the noise greatly reduced, and the overall noise level is lower than the national professional standard noise value of 10~15dB(A) above.
The total loss of SC(B)10(Type 11, Type 13) series is reduced by 10~20% on average compared with the "9" products commonly used in China.It has good economic benefits.

TECHNICAL PARAMETERS OF SC(B)10 TYPE DRY POWER TRANSFORMER OF 35KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SC10-50/35	50	35-38.5	±5 ±2×2.5 ±3×2.5	0.4	Dyn11 Yyn0	450	1420	2.3	6	51	F Level
SC10-100/35	100					630	2090	2.0		51	
SCB10-160/35	160					790	2810	1.5		52	
SCB10-200/35	200					880	3320	1.5		53	
SCB10-250/35	250					990	3800	1.3		55	
SCB10-315/35	315					1170	4510	1.3		56	
SCB10-400/35	400					1370	5410	1.1		57	
SCB10-500/35	500					1620	6650	1.1		57	
SCB10-630/35	630					1860	7695	1.0		57	
SCB10-800/35	800					2160	9120	1.0		57	
SCB10-1000/35	1000					2430	10400	0.75		57	
SCB10-1250/35	1250					2830	12700	0.75		59	
SCB10-1600/35	1600					3240	15400	0.75		59	
SCB10-2000/35	2000					3820	18200	0.75		60	
SCB10-2500/35	2500					4450	21800	0.75		61	
SCB10-3150/35	3150			3.15 6 6.3 10 10.5 11		6030	24500	0.7	8	66	
SCB10-4000/35	4000					7020	29400	0.7		66	
SCB10-5000/35	5000					8370	34900	0.6		66	
SCB10-6300/35	6300					9900	40800	0.6		66	
SCB10-8000/35	8000				Dyn11 Yd11 YNd11	11300	46000	0.5	9	66	
SCB10-10000/35	10000					12900	55500	0.5		66	
SCB10-12500/35	12500					15700	64600	0.4		67	
SCB10-16000/35	16000					19300	76000	0.4		67	
SCB10-20000/35	20000					22900	85500	0.35	10	68	
SCB10-25000/35	25000					27100	101000	0.35		68	

TECHNICAL PARAMETERS OF SC(B)11 TYPE DRY POWER TRANSFORMER OF 35KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SC11-50/35	50	35-38.5	±5 ±2×2.5 ±3×2.5	0.4	Dyn11 Yyn0	405	1420	2.3	6	49	F Level
SC11-100/35	100					565	2090	2.0		50	
SCB11-160/35	160					710	2810	1.5		51	
SCB11-200/35	200					790	3320	1.5		53	
SCB11-250/35	250					890	3800	1.3		54	
SCB11-315/35	315					1050	4510	1.3		55	
SCB11-400/35	400					1230	5410	1.1		55	
SCB11-500/35	500					1455	6650	1.1		55	
SCB11-630/35	630					1670	7695	1.0		55	
SCB11-800/35	800					1940	9120	1.0		55	
SCB11-1000/35	1000					2180	10400	0.75		57	
SCB11-1250/35	1250					2540	12700	0.75		57	
SCB11-1600/35	1600					2910	15400	0.75		58	
SCB11-2000/35	2000					3430	18200	0.75		59	
SCB11-2500/35	2500					4000	21800	0.75		59	
SCB11-3150/35	3150			3.15 6 6.3 10 10.5 11		5420	24500	0.7	8	64	
SCB11-4000/35	4000					6310	29400	0.7		64	
SCB11-5000/35	5000					7530	34900	0.6		64	
SCB11-6300/35	6300					8900	40800	0.6		64	
SCB11-8000/35	8000				Dyn11 Yd11 YNd11	10100	46000	0.5	9	64	
SCB11-10000/35	10000					11600	55500	0.5		64	
SCB11-12500/35	12500					14100	64600	0.4		65	
SCB11-16000/35	16000					17300	76000	0.4		65	
SCB11-20000/35	20000					20600	85500	0.35	10	66	
SCB11-25000/35	25000					24300	101000	0.35		66	

TECHNICAL PARAMETERS OF SC(B)13 TYPE DRY POWER TRANSFORMER OF 35KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SC13-50/35	50	35-38.5	±5 ±2×2.5 ±3×2.5	0.4	Dyn11 Yyn0	364	1420	2.3	6	47	F Level
SC13-100/35	100					505	2090	2.0		48	
SCB13-160/35	160					635	2810	1.5		49	
SCB13-200/35	200					710	3320	1.5		51	
SCB13-250/35	250					800	3800	1.3		52	
SCB13-315/35	315					940	4510	1.3		53	
SCB13-400/35	400					1100	5410	1.1		53	
SCB13-500/35	500					1300	6650	1.1		53	
SCB13-630/35	630					1500	7695	1.0		53	
SCB13-800/35	800					1740	9120	1.0		53	
SCB13-1000/35	1000					1960	10400	0.75		55	
SCB13-1250/35	1250					2280	12700	0.75		55	
SCB13-1600/35	1600					2610	15400	0.75		56	
SCB13-2000/35	2000					3080	18200	0.75		57	
SCB13-2500/35	2500					3600	21800	0.75		57	
SCB13-3150/35	3150			3.15 6 6.3 10 10.5 11		4870	24500	0.7	8	62	
SCB13-4000/35	4000					5670	29400	0.7		62	
SCB13-5000/35	5000					6770	34900	0.6		62	
SCB13-6300/35	6300					8010	40800	0.6		62	
SCB13-8000/35	8000				Dyn11 Yd11 YNd11	9090	46000	0.5	9	62	
SCB13-10000/35	10000					10440	55500	0.5		62	
SCB13-12500/35	12500					12600	64600	0.4		63	
SCB13-16000/35	16000					15500	76000	0.4		63	
SCB13-20000/35	20000					18500	85500	0.35	10	64	
SCB13-25000/35	25000					21800	101000	0.35		64	

SCZB10 DRY LOAD REGULATING POWER TRANSFORMER OF 35KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	The load loss is 120° (kW)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SCZB10-2000/35	2000	35-38.5	±4×2.5	6 6.3 10 10.5 11	Dyn11 Yd11	4500	19000	0.75	7	66	F Level
SCZB10-2500/35	2500					5220	22500	0.75		66	
SCZB10-3150/35	3150					6300	25400	0.7		66	
SCZB10-4000/35	4000					7380	30400	0.7		66	
SCZB10-5000/35	5000					8730	36100	0.6	8	66	
SCZB10-6300/35	6300					10300	41800	0.6		66	
SCZB10-8000/35	8000					11800	47500	0.5	9	66	
SCZB10-10000/35	10000					13500	57100	0.5		66	
SCZB10-12500/35	12500					16400	66500	0.4		67	
SCZB10-16000/35	16000					20200	78200	0.4		67	
SCZB10-20000/35	20000					23850	88000	0.35	10	67	
SCZB10-25000/35	25000					28100	104000	0.35		67	

SCZB11 DRY LOAD REGULATING POWER TRANSFORMER OF 35KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	The load loss is 120° (kW)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SCZB10-2000/35	2000	35-38.5	±4×2.5	6 6.3 10 10.5 11	Dyn11 Yd11	4050	19000	0.75	7	64	F Level
SCZB10-2500/35	2500					4690	22500	0.75		64	
SCZB10-3150/35	3150					5660	25400	0.7		64	
SCZB10-4000/35	4000					6640	30400	0.7		64	
SCZB10-5000/35	5000					7850	36100	0.6	8	64	
SCZB10-6300/35	6300					9260	41800	0.6		64	
SCZB10-8000/35	8000					10600	47500	0.5	9	64	
SCZB10-10000/35	10000					12100	57100	0.5		64	
SCZB10-12500/35	12500					14700	66500	0.4		65	
SCZB10-16000/35	16000					18100	78200	0.4		65	
SCZB10-20000/35	20000					21400	88000	0.35	10	65	
SCZB10-25000/35	25000					25200	104000	0.35		65	

SCZB13 DRY LOAD REGULATING POWER TRANSFORMER OF 35KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	The load loss is 120° (kW)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SCZB13-2000/35	2000	35-38.5	±4×2.5	6 6.3 10 10.5 11	Dyn11 Yd11	3640	19000	0.75	7	62	F Level
SCZB13-2500/35	2500					4220	22500	0.75		62	
SCZB13-3150/35	3150					5090	25400	0.7		62	
SCZB13-4000/35	4000					5970	30400	0.7		62	
SCZB13-5000/35	5000					7060	36100	0.6	8	62	
SCZB13-6300/35	6300					8330	41800	0.6		62	
SCZB13-8000/35	8000					9500	47500	0.5	9	62	
SCZB13-10000/35	10000					10800	57100	0.5		62	
SCZB13-12500/35	12500					13200	66500	0.4		63	
SCZB13-16000/35	16000					16200	78200	0.4		63	
SCZB13-20000/35	20000					19200	88000	0.35	10	63	
SCZB13-25000/35	25000					22600	104000	0.35		63	

TECHNICAL PARAMETERS OF 20KV SC(B)10 TYPE DRY POWER TRANSFORMER

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	The load loss is 120°	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SC10-50/20	50	35-38.5	±4×2.5	0.4	Dyn11 Yd11	340	1230	2	6	51	F Level
SC10-100/20	100					540	1990	1.8		52	
SCB10-160/20	160					670	2470	1.5		53	
SCB10-200/20	200					730	2940	1.5		55	
SCB10-250/20	250					840	3420	1.3		56	
SCB10-315/20	315					970	4080	1.3		57	
SCB10-400/20	400					1150	4840	1.1		57	
SCB10-500/20	500					1350	5790	1.1		57	
SCB10-630/20	630					1530	6840	1.0		57	
SCB10-800/20	800					1750	8260	1.0		57	
SCB10-1000/20	1000					2070	9780	0.85		59	
SCB10-1250/20	1250					2380	11500	0.85		59	
SCB10-1600/20	1600					2790	13800	0.85		60	
SCB10-2000/20	2000					3240	16300	0.7		61	
SCB10-2500/20	2500					3870	19300	0.7		61	
SCB10-2000/20	2000					3240	17800	0.7	8	61	
SCB10-2500/20	2500					3870	17800	0.7		61	

TECHNICAL PARAMETERS OF 20KV SC(B)10 TYPE DRY POWER TRANSFORMER

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	The load loss is 120°	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SC10-50/20	50	35-38.5	±4×2.5	0.4	Dyn11 Yd11	340	1230	2	6	51	F Level
SC10-100/20	100					540	1990	1.8		52	
SCB10-160/20	160					670	2470	1.5		53	
SCB10-200/20	200					730	2940	1.5		55	
SCB10-250/20	250					840	3420	1.3		56	
SCB10-315/20	315					970	4080	1.3		57	
SCB10-400/20	400					1150	4840	1.1		57	
SCB10-500/20	500					1350	5790	1.1		57	
SCB10-630/20	630					1530	6840	1.0		57	
SCB10-800/20	800					1750	8260	1.0		57	
SCB10-1000/20	1000					2070	9780	0.85		59	
SCB10-1250/20	1250					2380	11500	0.85		59	
SCB10-1600/20	1600					2790	13800	0.85		60	
SCB10-2000/20	2000					3240	16300	0.7		61	
SCB10-2500/20	2500					3870	19300	0.7		61	
SCB10-2000/20	2000					3240	17800	0.7	8	61	
SCB10-2500/20	2500					3870	17800	0.7		61	

TECHNICAL PARAMETERS OF SC(B)13 TYPE DRY POWER TRANSFORMER OF 20KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SC13-50/20	50	20 22 24	±5 ±4×2.5	0.4	Dyn11 Yyn0	258	1230	2.0	6	47	F Level
SC13-100/20	100					408	1990	1.8		48	
SCB13-160/20	160					510	2470	1.5		49	
SCB13-200/20	200					558	2940	1.5		51	
SCB13-250/20	250					639	3420	1.3		52	
SCB13-315/20	315					734	4080	1.3		53	
SCB13-400/20	400					870	4840	1.1		53	
SCB13-500/20	500					1020	5790	1.1		53	
SCB13-630/20	630					1156	6840	1.0		53	
SCB13-800/20	800					1326	8260	1.0		53	
SCB13-1000/20	1000					1564	9780	0.85		55	
SCB13-1250/20	1250					1802	11500	0.85		55	
SCB13-1600/20	1600					2108	13800	0.85		56	
SCB13-2000/20	2000					2448	16300	0.7		57	
SCB13-2500/20	2500					2924	19300	0.7		57	
SCB13-2000/20	2000					2448	17800	0.7	8	57	
SCB13-2500/20	2500					2924	21200	0.7		57	

TECHNICAL PARAMETERS OF SC(B)10 TYPE DRY POWER TRANSFORMER OF 10KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SC10-30/10	30	11 10.5 10 6.6 6.3 6	±5 ±2×2.5	0.4	Dyn11 Yyn0	190	710	2.0	4	48	F Level
SC10-50/10	50					270	1000	2.0		48	
SC10-80/10	80					370	1380	1.5		48	
SC10-100/10	100					400	1570	1.5		48	
SC10-125/10	125					470	1850	1.3		48	
SCB10-160/10	160					540	2130	1.3		50	
SCB10-200/10	200					620	2530	1.1		50	
SCB10-250/10	250					720	2760	1.1		50	
SCB10-315/10	315					880	3470	1.0		51	
SCB10-400/10	400					980	3990	1.0		51	
SCB10-500/10	500					1160	4880	1.0		53	
SCB10-630/10	630					1340	5880	0.85		53	
SCB10-630/10	630					1300	5960	0.85	6	53	
SCB10-800/10	800					1520	6960	0.85		55	
SCB10-1000/10	1000					1770	8130	0.85		55	
SCB10-1250/10	1250					2090	9690	0.85		55	
SCB10-1600/10	1600					2450	11700	0.85		55	
SCB10-2000/10	2000					3050	14400	0.7		55	
SCB10-2500/10	2500					3600	17100	0.7		55	
SCB10-1600/10	1600					2450	12900	0.85	8	55	
SCB10-2000/10	2000					3050	15900	0.7		55	
SCB10-2500/10	2500					3600	18800	0.7		55	

TECHNICAL PARAMETERS OF SC(B)11 TYPE DRY POWER TRANSFORMER OF 10KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SC11-30/10	30	11 10.5 10 6.6 6.3 6	±5 ±2×2.5	0.4	Dyn11 Yyn0	170	710	2.0	4	46	F Level
SC11-50/10	50					240	1000	2.0		46	
SC11-80/10	80					330	1380	1.5		46	
SC11-100/10	100					360	1570	1.5		46	
SC11-125/10	125					420	1850	1.3		46	
SCB11-160/10	160					485	2130	1.3		48	
SCB11-200/10	200					555	2530	1.1		48	
SCB11-250/10	250					645	2760	1.1		48	
SCB11-315/10	315					790	3470	1.0		49	
SCB11-400/10	400					880	3990	1.0		49	
SCB11-500/10	500					1040	4880	1.0		51	
SCB11-630/10	630					1200	5880	0.85		51	
SCB11-630/10	630					1160	5960	0.85	6	51	
SCB11-800/10	800					1360	6960	0.85		53	
SCB11-1000/10	1000					1590	8130	0.85		53	
SCB11-1250/10	1250					1870	9690	0.85		53	
SCB11-1600/10	1600					2200	11700	0.85		53	
SCB11-2000/10	2000					2740	14400	0.7		53	
SCB11-2500/10	2500					3230	17100	0.7		53	
SCB11-1600/10	1600					2200	12900	0.85	8	53	
SCB11-2000/10	2000					2740	15900	0.7		53	
SCB11-2500/10	2500					3230	18800	0.7		53	

TECHNICAL PARAMETERS OF SC(B)13 TYPE DRY POWER TRANSFORMER OF 10KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (W)	Open circuit losses (W)			Short circuit of (%)	No-load current (%)	Acoustic power level dB
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)			B100°	F120°	H145°			
SC13-30/10	30	6 6.3 6.6 10 10.5 11	±5 ±2×2.5	0.4	Dyn11	150	670	710	760	4	2.0	38
SC13-50/10	50					215	940	1000	1070		2.0	38
SC13-80/10	80					295	1290	1380	1480		1.5	39
SC13-100/10	100					320	1480	1570	1690		1.5	39
SC13-125/10	125					375	1740	1850	1980		1.3	40
SCB13-160/10	160					430	2000	2130	2280		1.3	40
SCB13-200/10	200					495	2370	2530	2710		1.1	41
SCB13-250/10	250					575	2590	2760	2960		1.1	41
SCB13-315/10	315					705	3270	3470	3730		1.0	42
SCB13-400/10	400					785	3750	3990	4280		1.0	42
SCB13-500/10	500					930	4590	4880	5230		1.0	43
SCB13-630/10	630					1070	5530	5880	6290		0.85	44
SCB13-630/10	630					1040	5610	5960	6400	6	0.85	44
SCB13-800/10	800					1215	6550	6960	7460		0.85	45
SCB13-1000/10	1000					1415	7650	8130	8760		0.85	45
SCB13-1250/10	1250					1670	9100	9690	10300		0.85	46
SCB13-1600/10	1600					1960	11000	11700	12500		0.85	47
SCB13-2000/10	2000					2440	13600	14400	15500		0.7	48
SCB13-2500/10	2500					2880	16100	17100	18400		0.7	49

SCZB10 DRY LOAD REGULATING POWER TRANSFORMER OF 10KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	The load loss is 120° (kW)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SCZB10-315/10	315	11 10.5 10 6.6 6.3 6	±4×2.5	0.4	Dyn11 Yd10	990	3610	1.1	4	51	F Leve
SCZB10-400/10	400					1120	4270	1.1		51	
SCZB10-500/10	500					1290	5220	1.1		53	
SCZB10-630/10	630					1490	6170	1.0		53	
SCZB10-630/10	630					1440	6360	1.0	6	53	
SCZB10-800/10	800					1710	7500	1.0		55	
SCZB10-1000/10	1000					1980	8780	0.85		55	
SCZB10-1250/10	1250					2340	10400	0.85		55	
SCZB10-1600/10	1600					2720	12400	0.85		55	
SCZB10-2000/10	2000					3420	15200	0.7		55	
SCZB10-2500/10	2500					3960	18100	0.7		55	

SCZB11 DRY LOAD REGULATING POWER TRANSFORMER OF 10KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	The load loss is 120° (kW)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SCZB11-315/10	315	11 10.5 10 6.6 6.3 6	±4×2.5	0.4	Dyn11 Yd10	890	3610	1.1	4	49	F Leve
SCZB11-400/10	400					1000	4270	1.1		49	
SCZB11-500/10	500					1160	5220	1.1		51	
SCZB11-630/10	630					1340	6170	1.0		51	
SCZB11-630/10	630					1290	6360	1.0	6	51	
SCZB11-800/10	800					1530	7500	1.0		53	
SCZB11-1000/10	1000					1780	8780	0.85		53	
SCZB11-1250/10	1250					2100	10400	0.85		53	
SCZB11-1600/10	1600					2440	12400	0.85		53	
SCZB11-2000/10	2000					3070	15200	0.7		53	
SCZB11-2500/10	2500					3560	18100	0.7		53	

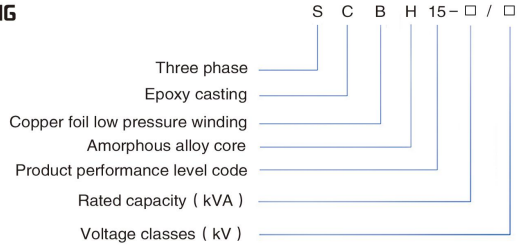
SCZB13 DRY LOAD REGULATING POWER TRANSFORMER OF 10KV CLASS

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (kW)	The load loss is 120° (kW)	No-load current (%)	Short circuit impedance (%)	Sound level dB	Insulation endurance class
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)							
SCZB13-315/10	315	11 10.5 10 6.6 6.3 6	±4×2.5	0.4	Dyn11 Yd10	740	3610	1.1	4	47	F Level
SCZB13-400/10	400					840	4270	1.1		47	
SCZB13-500/10	500					965	5220	1.1		49	
SCZB13-630/10	630					1110	6170	1.0		49	
SCZB13-630/10	630					1070	6360	1.0	6	49	
SCZB13-800/10	800					1280	7500	1.0		51	
SCZB13-1000/10	1000					1480	8780	0.85		51	
SCZB13-1250/10	1250					1750	10400	0.85		51	
SCZB13-1600/10	1600					2030	12400	0.85		51	
SCZB13-2000/10	2000					2550	15200	0.7		52	
SCZB13-2500/10	2500					2960	18100	0.7		52	

SC(B)H15 EPOXY POURED DRY TYPE POWER TRANSFORMERS

PRODUCT MODEL LETTER MEANING

S–Three phase
C–Epoxy casting
B–Copper foil low pressure winding
H–Amorphous alloy core
15– Product performance level code
□– Rated capacity (kVA)
□– Voltage classes (kV)

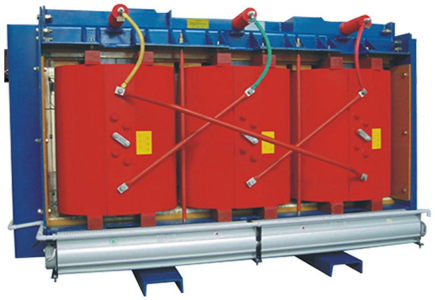


PRODUCT PRESENTATION

SC(B)H15 series amorphous alloy dry transformer is a new type of high efficiency and energy saving trans–former. This product combines the advantages of amorphous alloy material low loss and traditional epoxy resin cast transformer high insulation and mechanical strength, etc. Its core is made of amorphous alloy strip.Compared with the traditional SCB10 series silicon steel dry transformer, the no–load loss and no–load current decrease by 75~80%.
SC(B)H15 series products comply with national standard GB1094 power Transformer and GB/T22072–2008 Dry Amorphous alloy core Distribution Transformer Technical Parameters and requirements.

STRUCTURAL FEATURES

he core is wound by amorphous alloy strip, three–phase five–column or three–phase three–column core structure is adopted as required, and the core section is rectangular.
The high voltage coil adopts the breaking cylinder coil, thin insulation seal vacuum pouring, the large capacity winding is equipped with axial air passage, the coil has high pressure resistance level, low local discharge, dustproof and good cooling effect.
The low–voltage coil adopts foil–type coil, and the layer is equipped with DMD prepreening and solidification forming, which effectively solves the ampere–turn imbalance problem when the high–current coil is wound by wire. Meanwhile, the foil–type coil does not have axial winding helix Angle, and the axial force of the trans–former is greatly reduced in short circuit, with good process performance, low additional loss and strong short–circuit resistance ability.
According to users' needs, it can be configured with ordinary steel plate, aluminum alloy or stainless steel shell, and the protection class is IP20, IP23, IP3X, etc. It can be configured with high and low voltage bus inlet and outlet interfaces according to users' needs.



TECHNICAL PARAMETERS OF 10KV SC(B)H15 AMORPHOUS ALLOY DRY TYPE POWER TRANSFORMER

Model number	Rated capacity (kVA)	Voltage combination and tap range			Join group label	No-load loss (W)	Open circuit losses (W)			Short circuit of (%)	No-load current (%)	Acoustic power level dB
		High voltage (kV)	High pressure tap range (%)	Low tension (kV)			B100°	F120°	H145°			
SCH15-30/10	30	6 6.3 6.6 10 10.5 11	±5 ±2×2.5	0.4	Dyn11	70	670	710	760	4	2.0	35
SCH15-50/10	50					90	940	1000	1070		2.0	35
SCH15-80/10	80					120	1290	1380	1480		1.5	36
SCH15-100/10	100					130	1480	1570	1690		1.5	36
SCH15-125/10	125					150	1740	1850	1980		1.3	37
SCBH15-160/10	160					170	2000	2130	2280		1.3	37
SCBH15-200/10	200					200	2370	2530	2710		1.1	38
SCBH15-250/10	250					230	2590	2760	2960		1.1	38
SCBH15-315/10	315					280	3270	3470	3730		1.0	39
SCBH15-400/10	400					310	3750	3990	4280		1.0	39
SCBH15-500/10	500					360	4590	4880	5230		1.0	40
SCBH15-630/10	630					420	5530	5880	6290		0.85	41
SCBH15-630/10	630					410	5610	5960	6400	6	0.85	41
SCBH15-800/10	800					480	6550	6960	7460		0.85	42
SCBH15-1000/10	1000					550	7650	8130	8760		0.85	42
SCBH15-1250/10	1250					650	9100	9690	10370		0.85	43
SCBH15-1600/10	1600					760	11050	11730	12580		0.85	44
SCBH15-2000/10	2000					1000	13600	14450	15560		0.7	45
SCBH15-2500/10	2500					1200	16150	17170	18450		0.7	46
SCBH15-1600/10	1600					760	12280	12960	13900	8	0.6	44
SCBH15-2000/10	2000					1000	15020	15960	17110		0.5	45
SCBH15-2500/10	2500					1200	17760	18890	20290		0.5	46