Transformer

Model:SC(B)10 20KV35KV Dry Type Transformer

Application:

This series of products is used to directly reduce the power supply of 20kV and 35KV power grids to 400V power distribution power supply or 10KV power transmission power supply.Because of its significant advantages,it is used in more and more projects.ts main advantages are:Reducing the construction of land Occupation and multi-level substation projects has significant social benefits.Save engineering investment and improve economic efficiency.Reduce the 10kV power transmission and transformation ink,so that the operation and maintenance costs are significantly reduced.The use of high voltage and small current instead of low voltage and large current transmission reduces line losses and reduces the operating costs.The 35KV and 20kV power supplies directly enter the power consumption center,effectively improving the reliability of the power supply.

Features:

The SC(B)10series 20KV class and 35KV class non-exciting voltage regulating dry type transformers produced by our company are low-loss products,which meet the requirements of national standards GB6450,GB/T10228 and IEC726,and have the following characteristics:

Select high-quality silicon steel sheet,and greatly reduce the magnetic fux density,reduce the amount of magneto striction of the silicon steel sheet during operation,and effectively reduce noise.

Optimize the structure of the high-voltage coil,improve the distribution of voltage and capacitance between the layers,greatly improve the products ability to withstand the atmospheric over voltage and operating over voltage,and also improve the electrified distribution,so that the product volume is further reduced.

The temperature control system and air-cooling device can be configured to automatically star the fan cooling device when the load is too large,which can effectively improve the overload capacity of the equipment.

Specification:

20KV Class SC(B)10 series non-excitation voltage regulating dry power transformer performance parameter table

Rated Capacity (kVA)	Junction group label	Voltage combination (kV)			No-load current (%)	（W)Load loss at different insulation heat ratings			Load loss (W)	Short circuit impedance (%)
		(H.V.)	High voltage tap range(%)	(L.V.)		B (100℃)	F (120℃)	H (145℃)		
50					2.2	1160	1230	1320	340	
100					2.0	1880	1990	2130	540	
160					1.6	2340	2470	2660	675	
200					1.6	2800	2940	3140	740	

250	Yyn0 Dyn11	20 22 24	±5 2×2.5	0.4	1.4	3260	3420	3710	840	6.0
315					1.4	3890	4080	4370	970	
400					1.2	4650	4840	5180	1150	
500					1.2	5510	5790	6170	1350	
630					1.0	6530	6840	7360	1530	
800					1.0	7810	8260	8830	1750	
1000					0.8	9230	9780	10450	2070	
1250					0.8	10920	11540	12350	2380	
1600					0.8	13090	13870	14860	2790	
2000					0.6	15480	16380	17570	3240	
2500					0.6	18380	19380	20710	3870	
2000					0.6	16910	17860	19000	3240	8.0
2500					0.6	20230	21280	22700	3870	

Note:The load loss listed in the table is the value under the reference temperature in parentheses(see GB1094.11).

35KV Class SC(B)10 series non-excitation voltage regulating dry power transformer performance parameter table

Junction group label	Voltage combination(kV)			No-load current (%)	(W) Load loss at different insulation heat ratings			Load loss (W)	Short circuti impedance (%)
	(H.V.)	High voltage tap range(%)	(L.V.)		B(100℃)	F(120℃)	H(145℃)		
Yyn0 Dyn11	35 38.5	±5 2×2.5	0.4	2.6	1350	1420	1520	450	6.0
				2.2	1970	2080	2230	630	
				1.6	2650	2810	3010	790	
				1.6	3130	3320	3560	880	
				1.4	3560	3800	4060	990	
				1.4	4250	4510	4820	1170	
				1.2	5090	5410	5770	1370	
				1.2	6240	6650	7070	1620	
				1.0	7260	7690	8260	1860	
				1.0	8550	9120	9730	2160	
				0.8	9880	10450	11210	2430	
				0.7	12060	12730	13580	2830	
				0.7	14630	15480	16530	3240	
				0.7	17190	18240	19470	3820	
				0.7	20610	21850	23370	4450	

Note:The load loss listed in the table is the value under the reference temperature in

parentheses(see GB1094.11)

35KV Class SC(B)10 series non-excitation voltage regulating dry power transformer performance parameter table

Rated Capacity (kVA)	Junction group label	Voltage combination(kV)			No-load current (%)	(W) Load loss at different insulation heat ratings			Load loss (W)	Short circuit impedance (%)
		(H.V.)	High voltage tap range(%)	(L.V.)		B (100℃)	F (120℃)	H (145℃)		
800	Dyn11 Yd11 YynO	35 38.5	±5 2×2.5	3.15 6 6.3 10 10.5 11	0.9	8930	9400	10070	4860	6.0
1000					0.9	10260	10920	11680	2250	
1250					0.8	12160	12920	13770	2673	
1600					0.8	14630	15480	16530	3130	
2000					0.7	17190	18240	19570	3690	7.0
2500					0.7	20610	21850	23370	4230	
3150					0.6	23080	24510	26120	6030	8.0
4000					0.6	27930	29450	31350	7020	
5000					0.5	32960	34960	37330	8370	
6300					0.5	38470	40850	43600	9900	
8000	Dyn11 Yd11 YNd11				0.4	43410	46070	49300	11340	9.0
10000					0.4	52720	55570	59470	12960	
12500				6 6.3 10 10.5 11	0.3	60800	64600	69060	15750	
16000					0.3	71720	76000	80560	19350	
20000					0.3	80750	85500	91480	22950	10.0

Note:The load loss listed in the table is the value under the reference temperature in parentheses(see GB1094.11).