

## SC(B)10 Series Resin-insulated Dry Type Transformer

### Function Characteristics:

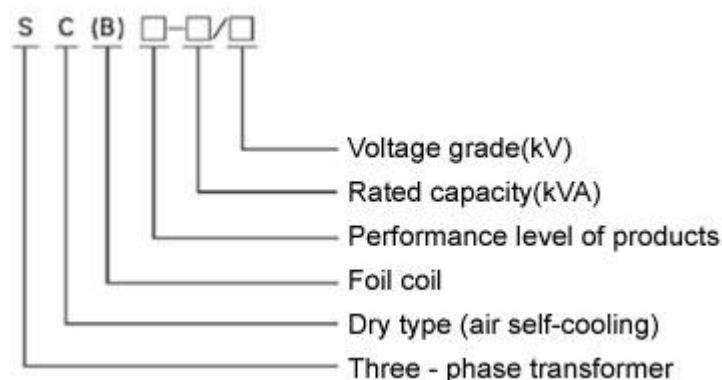
- Flame retardant, non-pollution, it can be installed directly in the load center.
- Maintenance-free, easy to be installed, low operating costs.
- The enclosure can be of Good moisture resistance, transformer can be put into operation without pre-drying under 100% humidity in the normal operation.
- Low loss, light weight and small volume, low noise, good dissipation of heat, it can be 150% rated load operation under forced air cooling conditions.
- Equipped with a complete temperature protection control system to provide reliable protection for the safe operation of transformers.
- High reliability. The results of checking for the products that has been put into operation show that the reliability index has reached the international advanced level.

### Structural Characteristics:

**Foil Coil:** Adopting the entire section of copper foil, together with the F-class turn insulation, low voltage winding is wound by the special low-voltage foil winding machine. The foil coil resolves problems such as large short-circuit stress, ampere turn unbalance, poor heat dissipation, existing the winding spiral angle and unsteady manual welding quality due to low voltage and large current coil. At the same time, the end of winding is treated with cast resin, solidification to make shape, moisture-proof and anti-fouling, the lead for copper bar is welded by argon arc welding automatically.

**Temperature Control Device:** the transformer adopts BWDK series of signal thermometer. The temperature components are embedded in the upper half of the low-voltage coil, can detect and display the temperature of separate phase coil automatically and continuously, also have the functions of over-temperature alarm and trip.

### Model and Meaning



### Technical Parameter for 6kV, 10kV& 30kVA-2500kVA With Off Circuit Dry Type Transformer

(KVA	Voltage Combination	Connect	No-lo	Load Loss (W)	No-lo	Short-cir
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Rated capacity	High Voltage (KV)	Tapping ranges of High Voltage	Low Voltage(KV)	ion Group Symbol	ad Loss (W)	130°C (B) (100 °C)	155°C (F) (120 °C)	180°C (H) (145 °C)	ad Current (%)	cuit Impedance (%)
30	6 6.3 6.6 10 10.5 11	±2.5% ±5%	0.4	Dyn11 Yyn0	190	670	710	760	2.0	4.0
50					270	940	1000	1070	2.0	
80					370	1290	1380	1480	1.5	
100					400	1480	1570	1690	1.5	
125					470	1740	1850	1980	1.3	
160					540	2000	2130	2280	1.3	
200		620			2370	2530	2710	1.1		
250		720			2590	2760	2960	1.1		
315		880			3270	3470	3730	1.0		
400		980			3750	3990	4280	1.0		
500		1150			4590	4880	5230	1.0		
630		1340			5530	5880	6290	0.85		
630		1300			5610	5960	6400	0.85		
800		1520			6550	6960	7460	0.85		
1000		1770			7650	8130	8760	0.85		
1250		2090			9100	9690	10300	0.85		
1600		2450			11000	11700	12500	0.85		
2000		3050			13600	14400	15500	0.70		
2500	3600	16100	17100	18400	0.70					
1600	2450	1220	12900	13900	0.85					
2000	3050	15000	15900	17100	0.70					
2500	3600	17700	18800	20200	0.70					

The load losses listed in the table are the values of the reference temperature for different insulation systems in parentheses; The load losses under other insulation system temperatures that are not included in the table should be according to their respective reference temperatures, the corresponding calculation is based on the "155 °C (F)" insulation system temperature data. Notes: The Dimension and weight will be changed according to the requirements. These two data in the table will be subject to the factory documents.

**Technical Parameter for 20kV & 50kVA-2500kVA With Off Circuit Dry Type Transformer**

(KVA) Rated capacity	Voltage Combination			Connection Group Symbol	No-load Loss (W)	Load Loss (W)			No-load Current (%)	Short-circuit Impedance (%)	
	High Voltage (KV)	Tapping ranges of High Voltage	Low Voltage(KV)			130℃ (B) (100℃)	155℃ (F) (120℃)	180℃ (H) (145℃)			
50	20	±2.5% ±5%	0.4	Dyn11 Yyn0	340	1160	1230	1310	2.0	5.0	
100					540	1870	1990	2130	1.8		
160					670	2350	2470	3460	1.8		
200					730	2770	2940	3140	1.8		
250		840			3220	3420	3660	1.8			
315		970			3850	4080	4360	1.8			
400		1150			4650	4840	5180	1.1			
500		1350			5460	5790	6190	1.1			
630		22			±2X2.5% ±5%	1530	6450	6840	7320		1.0
800		24				1750	7790	8260	8840		1.0
1000		2070				9220	9780	10400	0.85		
1250		2380				10800	11500	12300	0.85		
1600		2790				13000	13800	14800	0.85		
2000		3240				15400	16300	17500	0.70		
2500		3870				18200	19300	20700	0.70		
2000		3240				16800	17800	19100	0.70		
2500	3870	20000	21200	22700	0.70	8.0					

**Technical Parameter for 35kV & 50kVA-2500kVA With Off Circuit Dry Type Transformer**

(KVA) Rated capacity	Voltage Combination			Connection Group Symbol	No-load Loss (W)	Load Loss (W)			No-load Current (%)	Short-circuit Impedance (%)
	High Voltage (KV)	Tapping ranges of High Voltage	Low Voltage(KV)			130℃ (B) (100℃)	155℃ (F) (120℃)	180℃ (H) (145℃)		
50	35	±2.5%	0.4	Dyn11	450	1340	1420	1520	2.3	6.0

100	36	±5%		Yyn0	630	1970	2090	2230	2.0
160	37				0.790	2650	2810	3000	1.5
200	38.5				0.880	3130	3320	3550	1.5
250					0.990	3580	3800	4060	1.3
315					1170	4250	4510	4820	1.3
400					1370	5100	5410	5790	1.1
500					1520	6270	6650	7110	1.1
630		±2X2. 5% ±5%			1860	7250	7690	8230	1.0
800					2160	8600	9120	9760	1.0
1000					2430	9860	10400	11100	0.75
1250					2830	12000	12700	13600	0.75
1600					3240	14600	15400	16500	0.75
2000					3820	17200	18200	19500	0.75
2500					4450	20600	21800	23300	0.75