

SCBH15 SERIES NON-METALLIC DRY-TYPE TRANSFORMER

Product overview



Amorphous alloy is an advanced old acute cooling technology, iron, cobalt, boron, silicon and other liquid melt injection into a high speed chassis and sharp cooling, forming 0.02mm0.04mm thin band, which has excellent soft viscosity performance, corrosion resistance, wear resistance and high resistance and other characteristics. The amorphous alloy core and cold rolled grain tend to silicon steel shee thave the following advantages:1. Amorphous alloy material has no crystal structure, and it is an isotropic softmagnetic material with low magnetization power.2. There is no structural defects that hinder the movement of the magnetic domain wall and the hysteresis loss is smaller than that of the silicon steel sheet.3. The resistivity is very high, which is 3-6 times that of silicon steel sheet. its eddy current loss is greatly reduced, and the unit eddy current loss is only 20%~30% of that of siliconsteel sheet. SCBH15 Series amorphous alloy dry-type transformer is a new type of low-lossand energy-saving distribution transformer. This productcombines the technical advantages of the amorphous alloy transformer and thetraditional epoxy resin cast dry type transformer, and adopts a new structural form so thatit has the outstanding characteristics of low loss, especially the no-loadloss, which is 70% lower than the conventional 10 series dry type transformer. The productalso has the characteristics of compact structure, beautiful shape, lownoise, low temperature rise, strong overload capacity, stable electrical performanceconvenient maintenance and so on

Service condttion

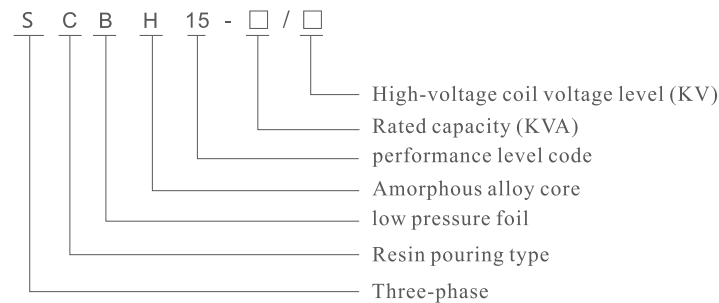
1. The altitude is not 1000m (when more than 1000m).
2. Ambient temperature: maximum temperature + 40°C, hottest monthly average temperature + 30°C; lowest temperature-25°C,hottest annual average temperature + 20°C
3. waveform of power supply voltage is similar to sine wave; three-phase power supply voltage is roughly symmetrical
4. installed in the household, the use of the environment without obvious pollution.

SCBH15 SERIES NON-METALLIC DRY-TYPE TRANSFORMER

Product characteristics

SCBH15 Series amorphous alloy dry transformer has low no-load loss, no oil, flame retardant since extinguishing, moisture resistance and maintenance free advantages, now all places of ordinary dry transformer are suitable for amorphous alloy transformer (including airport, station, city subway, high-rise buildings and power plants, etc.), especially in the flammable explosive and power shortage is more suitable. The specific characteristics are: 1. low consumption and energy saving: using isotropic soft magnetic conductive materials, small magnetization power, high resistivity, low eddy current loss. The core no-load loss and no-load current made of non-quality alloy materials are very low, only 1/3 of the silicon steel sheet. The no-load loss of the transformer is reduced by 75% compared with the specified value of GB/T10228. Can greatly reduce the operation cost, the energy-saving effect is remarkable. 2. Strong corrosion resistance: the amorphous alloy core is fully packaged through resin and high temperature resistant silicone gel, effectively prevent corrosion and amorphous alloy debris off, so as to effectively protect the core and coil. 3. Low noise. in order to reduce the operating noise of the product, reasonable working magnetic density is selected in the product design, the core and coil structure are improved in the product processing, and special noise reduction materials are adopted, etc. The product noise is far lower than the requirements of the national standard JB/T10088. 4. Strong short circuit resistance, the product adopts three-phase three-column structure around the core with compact and reasonable structure. 5. low temperature rise, long service life: the product low temperature rise, strong heat dissipation capacity, under forced air cooling conditions can be 150% rated load operation, the performance of the temperature control protection system can be optional, to provide reliable guarantee for the safe operation of the transformer.

Model Meaning



SCBH15 SERIES NON-METALLIC DRY-TYPE TRANSFORMER

Main technical parameters

Technical parameters of 10kV class SCBH15 series amorphous alloy dry-type transformer

Rated capacity (kVA)	Voltage groupus			Connection group Label	No-load loss(W)	Load loss Class F(W)			No-load current %	Short circuit impedance %
	High voltage (kv)	High voltage	Low pressure			100°C (B)	120°C (F)	145°C (H)		
30	6;6.3; 6.6; 10; 10.5; 119	+2x2.5%; Or±5%;	0.4	Dyn11	70	670	710	760	1.6	4.0
50					90	940	1000	1070	1.4	
80					120	1290	1380	1480	1.3	
100					130	1480	1570	1690	1.2	
125					150	1740	1850	1980	1.1	
160					170	2000	2130	2280	1.1	
200					200	2370	2530	2710	1.0	
250					230	2590	2760	2960	1.0	
315					280	3270	3470	3730	0.9	
400					310	3750	3990	4280	0.8	
500					360	4590	4880	5230	0.8	
630					420	5530	5880	6290	0.7	
630					410	5610	5960	6400	0.7	
800					480	6550	6960	7460	0.7	
1000					550	7650	8130	8760	0.6	
1250					650	9100	9690	10370	0.6	
1600					760	11050	11730	12580	0.6	
2000					1000	13600	14450	15560	0.5	
2500					1200	16150	17170	18450	0.5	
1600					760	12280	12960	13900	0.6	
2000	1000	15020	15960	17110	0.5					
2500	1200	17760	18890	20290	0.5					
									6.0	
									8.0	