非晶合金干式变压器
AMORPHOUS ALLOY DRY-TYPE TRANSFORMER

产品特点 Product Features

- 节能环保，空载损耗比常规10型干变低70%~80%；
- 三防能力强，动热稳定性高；
- 投资回收期短，客户长期受益。

- Energy saving and environment protction,no-load loss is 70%~80% less than S10 series;
- Fireproofing,explosion-proof;
- Short payback period of investment,more benefits.

产品概述 CHARACTERISTICS

非晶合金干式变压器空载损耗比GB/T10228表4组I降低75%,负载损耗比GB/T10228表4降低15%，是当代最先进的节能型干式变压器。

The no-load loss of SCBH 16 amorphous dry type transformeris 75%less than GB/T10228 table 4 groupI，load loss is 15%less than GB/T10228table 4,which is the most advanced energyconserv ation d ry-type transformer.

使用环境 PRODUCT CHARACTERISTICS

使用条件 Servlce condltion
环境温度 Ambient temperature
最高气温+40℃ Highest air temperature+40℃
最低气温-5℃ Lowest alr temperature-5℃.
最热月平均温度+30℃ Hottest monthly average temperatu re+300C
最热年平均温度+20℃ Hottest yearly average temperature+20℃
海拔不超过1000m The height above the sea level is below 1 000m;
电源电压的波形近似于正弦波 The power supply voltage's cave is similar to sine wave
三相电源电源电压应大致对称 Three-phase power supply voltage is approximately symmetrical
安装环境无明显的污秽 Installation without evidence filth.
户内使用. Service indoor.

结构特点 CHARACTERISTICS OF THE STRUCTURE

本产品低压为箔式线圈，采用铜箔绕制，高压线圈采用H级高强度漆包线绕制，采用玻璃纤维加强的环氧树脂包封结构，具有优良的耐潮和抗裂性能。铁心由非晶合金带材卷而成，采用矩形截面、四框五柱或三框三柱结构。

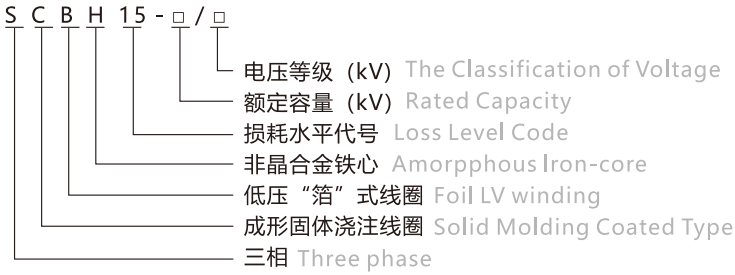
The product adopt LV winding copper foil winding，HV winding rolled by paint coated thread,with glass fibre added insulation resin，which is good for humidity-beadng and anti-crack,the iron-core is made of Amorphous strip material，with rectangular section, four flame fivecolumn or three flame three column structure.

产品用途 PURPOSE

本产品具有空载损耗低、无油、阻燃自熄、耐潮、抗裂和免维修等优点。凡是现在使用普通干变的场所都可由非晶干变所取代，可用于高层建筑、商业中心、地铁、机场、车站、工矿企业和发电厂。特别适合于易燃、易爆等防火要求高的场所安装使用。

This product has the merit of low no-load loss, no oil self burnoutif prohibition is encountered,humidity endurance,anticrack，no maintenance etc. It may take replace any normal Dry-TypeTransformer at high building,business cent re，subway,airport, busstation,industrial enterprise and power-plant,extremely suit for those site with high nflammable&explosive needs.

型号标志 MODEL DESCRIPTION



产品标准 PRODUCT STANDARDS

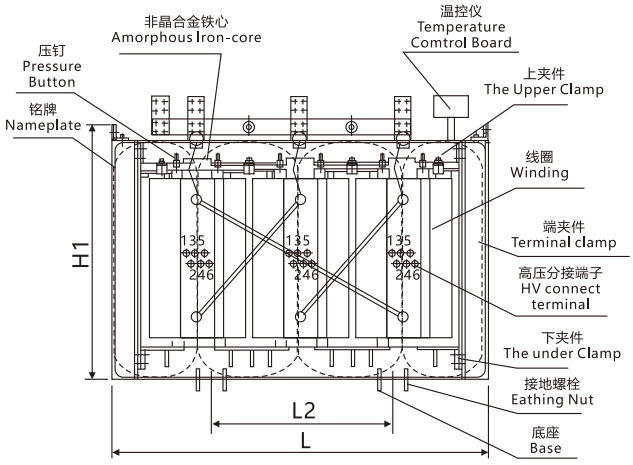
GB/T22072-2018 GB1094.11-2007
额定高压 Rated HV:
10(10.5,11,6,6.3,6.6)kV
额定低压 Rated LV: 0.4kV
分接范围 Tap connection range:
无励磁调压 Non-exciting regulation
(±5%,±2×2.5%)
有载调压 On-load regulation (±4×2.5%)
联结级别 Vector group: D yn11 or Y yno

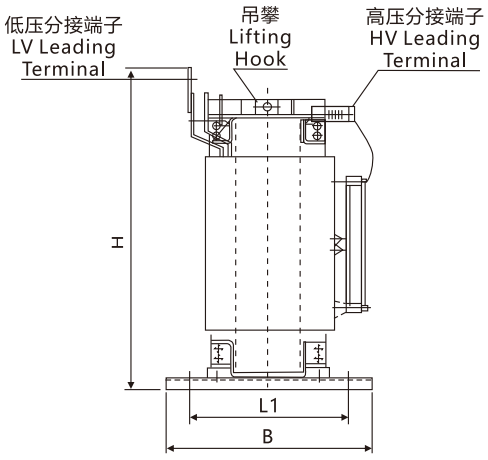
性能参数 PERFORMANCE PARAMETER

容量 Capacity(KVA)	电压组合 Voltage combi-nation	高压分接范围% HV tap commect	低压 LV（KV）	联结组标号 Vector group	空载损耗 No-load Loss (W)	空载电流 NO-load current %	负载损耗 Load current(120°)W	阻搞电压 Impedance volatge(%)
100	6 6.3 6.6 10 10.5 11	±5 ±2×2.5	0.4	Dyn11 Y yno*	130	1.2	1570	4
160					170	1.1	2130	
200					200	1.0	2530	
250					230	1.0	2760	
315					280	0.9	3470	
400					310	0.8	3990	
500					360	0.8	4880	
630					410	0.7	5960	6
800					480	0.7	6960	
1000					550	0.6	8130	
1250					650	0.6	9690	
1600					760	0.6	11730	

注：带“*”的联结组Yyno适用于容量≤400kV的变压器；特殊规格或非标产品的各项技术参数由供需双方协商确定。
Note:With the"*"ector group Yyno is suit for the transformer capacity is no more than 400kVA;
The client should consult with the supplier about the technical data when special model or non-standardard product is needed.

产品外形结构图 PRODUCT OUTLINE STRUCTURE DRAWING





节能效果 EFFECT OF ENERGY CONSERVATION

非晶干变的空载损耗比现行国标GB/T10228-2008中表4组I规定的数值降低四分之三。以630 kVA为例，SCBH15-630/10与SC10-630/1 0相比，空载损耗降低925W.

假设：无功经济当量k1=0.1kW/kVar；年运行时间T=8760h：电费单价A=0.6元/kWh：年平均负载系数取0.8，一台容量为630kVA的SCBH15型的非晶干变代替SC10型干变运行可降低运行损耗P为：P=[1.345+0.1 X1.6X630 X10-2+5.875X0.82]-[0.42+0.1 X0.5X630×10-2+5.875X 0.82]=1.68kW

运行一年的经济效益和社会效益如下：

节约电能14174度(kWh)、节约电费8504元、节煤5.8吨；少排放二氧化碳11. 7吨、相当于增加净化空气的森林面积31200^{2}m。

Amorphous Dry Type Transforme r's No-load Loss is 3 4 less than the required data in GB/T10228-2008Table4GroupI, Compare SCBH15-630/10 with SC10 Dry Type transformer,the No-load Loss deducted 925W.

Suppose when k1=0.1Kw / kVar; working hour/year T=8760h payment of electricity charge=RMB 0.6 yuan/kWh,yearly onload modulus is 0.8,a SCBH10 Amorphous Dry Type Transformer with the capacity is 630kVA can reduce loss Pas following,

A year running economical and social benefit is:

Save elect ricity energy 14174(kWh)Discharge Less C02 11.7T Save payment of electricity charge RMB 8504Yuan.

Save Coal 5.8T，Itis to say this inoreased 31200m2 forest area.