INSTRUCTION

OIL-IMMERSED POWER TRANSFORER

Jiangshan Scotech Electrical Co.,Ltd

ıddress : No.98-2, Jiangjialong natural village ,Jiangshan city, Zhejiang Province, Chir
WWW.SCOTECH.COM
INFO@SCOTECH.COM
TEL: +86 13857027511

This instruction applies for oil-immersed power transformer with capacity of 6300KVA and below,rated voltage of 35KV and below.

1. Usage Scope

1.1 After normal transportation,these series transformers need no more untaking inspection. Having been assembled with all the fitting and gone through all acceptance items,they can put into operation.

2. Transportation

2.1 The transformer will be transported to assembly site mainly through rail road or highway. This kind of transformer will be transported with oil and all other fittings.

2.2 During installation, when craning the transformer,you shall use all four lifting lugs on the tank walls.The four lifting lugs can bear all the total weight of the whole transformer The lift plates on the tank cover will be used for body-lift only.When craning,the angle between the lifting rope and vertical direction shall not exceed 30°.If this requirement can not be reached,special beam for tansformer hoist shall be used.

2.3 During transportation,enough stable shall be assured.The angle of inclination shall not exceed 15°.Handle with care when craning and installation.The speed of transformer moving shall be slow so as to prevent hard vioration.

3. Check

3.1 After recerving the transformer, the user shall check the serial number and specification to ensure it is completely compliant with the contract. Check whether the product and accessories are fully provided and intact according to the packing list.

1）Check whether the transformer have leakage.

2）Check whether the product and accessories are fully provided and intact.

3）The vulmerable part,like the security gas channel membrane,the singal thermometer,the drive pipe,whther there is do the gas relay and so on damage.（There is no gas relay and signal thermometer on the transformer with capacity of 630KVA and below. ）

4. Store

4.1 Regularly check the storage condition of the transformer during storage.

5. General assembly

5.1 The operation experimental project should be done before putting into operation without disassemblaging transportation.

The transformer to be transported after disassembly must have its radiators installed first.

5.2 When mounting mercury thermometer and signal thermometer,the transformer oil must be fully.

5.3 Assemble other spare parts.

5.4 For transformers with radiators disassembled for transportation, open the butterfly valve plates of the radiators and conservator, and fill with qualified transformer oil until the normal oil level is reached (determine the oil level height based on the ambient temperature). During oil filling, all air vent plugs must be opened and sealed again when oil overflows.

5.5 After pours into the transformer oil,the radiator the gas relay the drive pipe and so on the air relief cock seals and inspection all packing surfaces park 24h.A fter the hour check whether leakageand emits the gas relay once more .
When makes up the note transformer oil must pay attention makes up. Note the oil model,habitat or oil base.The different model transformer oil generally does not mix the use.If the mix ude must experiment qualified. Latter only then uses.

5.6 Sample the transformer oil and test.

5.7 The sealing test after infusing transformer oil.

6. Put into operation

6.1 Having been rassembly,the following tests shall be carried before putting into operation:

1）To measure the installation resistance.

2）To measure DCresistance。

3） Power frequency test, test voltage will be 85% of the value on ex-works testing report' lasting time is one minute.

4）No-load test with not more than 130% rated voltage,lasting time is 30second.Special attention shall be paid to the sound and noise of the transformer and the change on the instrument meter during test.

5）To measure no-load current and no-load loss,the results shall be of no great discrepaney comparing with ex-works test report.

6.2 Having gone through all the above mentioned processures,the following shall be carried on:

1）Examin and test protective device:gas relay,

2）Test oil circuit breather transmission system and movement of the interlocking device.

3）The inspection oil storage cabinet oil level,connecting pipe of valve the oil storage cabinet and the transformer certainly must clear.

4）To check reading of the thermometer.

5）To check if there exiets anything uncorrespondent to the transformer.

6）To check if the tank carring is fine.

7）Whether leakage.

6.3 The transformer shall be connected into electricity network on power supply side,because the protective unit is usuallyfacilitated on this side.

6.4 Transformer turns on the voltage the result to be good,the transformer can be put into operation on load.

6.5 In the transformer operation, should frequently inspect variousinstallment and the protective device and so on temperaturesinstruction and oil level instruction Guaranteed its movement isreliable（For examble gas relay etc）,frequently examined whether there is seals the oil leak one by one.