

Transformer Test Report

Type of Product: THREE PHASE PAD MOUNTED TRANSFORMER

Serial No: JM2605-00129

Drawing No: 1.710.Y70601.1

Standard: IEEE C57.12.34

Reported by: -

Checked by:

Approved by:

JIANGSU YAWEI TRANSFORMER CO.,LTD.

1、Product Parameter

Model no: ZGS-Z-2500

Factory no : JM2605-00129

Rated capacity: 2500 kVA

Phase : 3 phase

Voltage ratio: 34.5/0.44 kV

Rated frequency : 60 Hz

Rated current: 41.84/3280.40 A

Cooling method : ONAN

Insulation thermal level: A

Vector group: Yyn0

2、Test Parameter

1、Measurement of Voltage Ratio and Vector Group

Tapping	Voltage(V)	Voltage (V)	Measured Deviation (%)		
			H1H2/X1X2	H2H3/X2X3	H1H3/X1X3
1	36225	440	0.04	0.07	0.06
2	35363		-0.01	0.02	0.01
3	34500		0.06	0.09	0.09
4	33638		-0.01	0.03	0.04
5	32775		-0.06	-0.03	-0.03

2、Winding Resistance Temperature: 25°C

HV winding (Ω)			
Tapping position	H1H2	H2H3	H1H3
1	3.457	3.465	3.459
2	3.366	3.373	3.368
3	3.280	3.287	3.282
4	3.189	3.194	3.190
5	3.099	3.104	3.101
LV winding (Ω)			
X0X1	X0X2	X0X3	
0.0002938	0.0002858	0.0002796	
X1X2	X2X3	X1X3	

0.0005393	0.0005328	0.0005412
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3、 Insulation Resistance Measurement

HV to LV and earth ≥2500 MΩ LV to HV and earth ≥2500 MΩ

HV and LV to earth ≥2500 MΩ core to earth ≥2500 MΩ

4、 Transformer oil 25 breakdown voltage 40 kV。

5、 Separate-Source Power-Frequency Voltage Withstand Test

HV to LV and earth frequency 50 kV continue 60 s 。

LV to HV and earth frequency 10 kV continue 60 s 。

6、 Induced Over-voltage Withstand Test

from LV Side frequency at 150 Hz 200 %

Rated voltage continue 48 s 。

7、 No-load Current and No-load Loss Measurement

At rated voltage：

No-load loss 2121 W No-load current 0.17 %

8 、 Short Circuit Impedance and Load Loss Measurement

Referenced Temperature 85 °C

Load loss 22596 W Impedance voltage 5.94 %

3、 Oil Tank Strength and Sealing Test Result

under 49 kPa test pressure, 24h no leakage and damage after 24hours。

4、 Result

Product match IEEE C57.12.34 Three Phase Oil Immersed Power Transformer Technical Data and Require,allowed to delivery.

test: Rijng Zhang **calculate:** Lun Wang **check:** HaiHua Liu

June 18, 2026