Transformer Routine Test Report — Sample

Oil-immersed distribution transformer, 1,250 kVA, 33 / 0.4 kV · Report date 2026-09-30

Model	S-1250/33	Rated power	1,250 kVA
Rated voltage	33,000 / 400 V	Rated current	21.9 / 1,804.2 A
Frequency	50 Hz	Phases	3
Tapping range	33,000 ±2×2.5 %	Vector group	Dyn11
Insulation class	A	Serial No.	(removed)

1. Voltage ratio and vector group

Tap	HV (V)	LV (V)	Ratio	AB/ab %	BC/bc %	AC/ac %	Vector
1	34,650	400	86.62	-0.01	-0.03	-0.04	Dyn11
2	33,825		84.56	0.02	0.02	0.01	
3	33,000		82.50	0.03	0.03	0.01	
4	32,175		80.43	0.02	0.02	-0.01	
5	31,350		78.37	0.01	0.01	-0.01	

2. Winding resistance (ambient 26 °C)

HV tap	R AB (Ω)	R BC (Ω)	R CA (Ω)	Unbalance %
1	8.931	8.924	8.928	0.09
2	8.704	8.694	8.701	0.09
3	8.470	8.459	8.469	0.09
4	8.240	8.227	8.239	0.15
5	8.004	7.993	8.004	0.14
LV (mΩ)	R ab 1.033	R bc 1.023	R ac 1.040	1.7

3. Insulation resistance

HV – LV + earth	LV – HV + earth
2,500 MΩ	2,500 MΩ

4. Applied voltage test (50 Hz, 60 s)

HV – LV + earth	LV – HV + earth	Result
85 kV	5 kV	Passed

5. Induced voltage test

Applied voltage	Frequency	Duration	Result
200 % Ue	150 Hz	45 s	Passed

6. No-load current and no-load loss (50 Hz)

No-load current	No-load loss

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0.55 %	1,903 W

7. Load loss and impedance (principal tap, 75 °C)

Impedance voltage	Load loss
6.03 %	14,548 W

8–9. Oil breakdown voltage and leakage test

Oil breakdown voltage	Leakage test
> 45 kV, qualified	15 kPa, 12 h, no leakage or damage

Conclusion

The test results meet the requirements of IEC, GB standards and the relevant technical documents. The unit passed the factory routine tests.

Sample routine test report shown for reference only. Manufacturer name and serial number removed. Supply Bridge Asia · supplybridgeasia.com

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