

RDZR-340Y Transformer DC Resistance Tester

The Transformer DC Resistance Tester is a mandatory test item for semi-finished products and finished products factory test, installation and handover test, and preventive test of the power department in the transformer manufacture industry. It can be used to effectively detect the defects in poor material selection, loose welding and connection parts, missing strands and broken wires of the transformer coil, as well as the operation hidden dangers. In order to meet the requirements of rapid measurement of DC resistance in large power transformers, our company has developed RDZR-340Y DC Resistance Tester that integrates three-phase simultaneous test function, saturable magnetic circuit method function and demagnetization function. The tester has the functions of three-phase simultaneous power-on, independent current and voltage sampling, simultaneous measurement and display of three-phase resistance and three-phase unbalance rate, so as to greatly shorten the test period of transformer DC resistance and solve the problems about long time consumption for DC resistance measurement of each tap winding in power transformers.



Product features

1. The tester has a Three Phases Test function to measure the three-phase DC resistance of the star-connected windings synchronously and calculate the three-phase unbalance rate automatically, so as to greatly reduce the measurement period and improve the test efficiency. Its phase by phase test function can also be used for phase by phase test on transformers with YN and D (Y) connections.
2. On large transformers with a five-leg core and low-voltage windings connected in

- delta, the tester can be used for the test in HV & LV series excitation mode. The magnetic augment circuit of the windings can be automatically connected in the tester, to quickly and accurately test the DC resistance of the low-voltage windings.
3. The winding material can be set according to the winding material of the transformer, such as copper or aluminum, to distinguish the conversion temperature coefficient of different materials.
 4. The tester is equipped with transformer YN winding neutral point lead line resistance detection function, can make three-phase test data closer to the single-phase test value.
 5. The tester has a complete protection circuit and sound discharge alarm, to inform the clear discharge indication and reduce the misoperation.
 6. The tester is equipped with a 7-inch color touch screen. Witch display the test data clearly in real-time.
 7. The tester has Chinese and English operation interfaces, which can be configured according to the user requirements.
 8. The tester is equipped with a RS232 communication port and USB port.
 9. The tester has a built-in calendar and clock, as well as saving(save 100 groups of data), review, and printing functions of test data.
 10. The tester has more complete parameter settings, including test windings, Tapping Positions, test phases, Tested Sample Temperature, Conversion Temperature and others of the transformers.
 11. The tester is equipped with an industrial plastic case which ensures its good portability and improves its service life.



Product specifications and technical parameters

1. Three-phase test

Current output	Measurement range
40A (20A+20A)	0.5mΩ~0.3Ω
20A (10A+10A)	1mΩ~0.6Ω

10A (5A+5A)	2mΩ~1.2Ω
2A (1A+1A)	10mΩ~6Ω
400mA (200mA+200mA)	100mΩ~30Ω
40mA (20mA+20mA)	10Ω~200Ω

2. Single-phase test

Current output	Measurement range
40A	0.25mΩ~0.5Ω
20A	0.5mΩ~1Ω
10A	1mΩ~2Ω
5A	2mΩ~4Ω
1A	10mΩ~20Ω
200mA	100mΩ~100Ω
20mA	10Ω~20KΩ

3. Resolution: 0.1μΩ
4. Accuracy: $\pm(0.2\%rdg+2dgt)$
5. Operating temperature: -10°C ~ 40°C
6. Ambient humidity: $\leq 80\%RH$, no condensation
7. Power supply: AC220V $\pm 10\%$, 50Hz $\pm 1Hz$

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