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INSTRUMENTOS DE MEDICIÓN INDUSTRIAL

TTR, Probador de Transformadores Trifasico, Kingrun

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JYT-A TURN RATIO TESTER

Operation Manual





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Enterprise goals: To create well-known Chinese brands.

Enterprise mission: To enhance customer core values, create elite talents; trained bird as sea and the sky are his home. We conform the time, and culture human to culture.

Foreword

Thank you for using our company products.

To allow you to operate the equipment skilled, we were content with a detailed instruction manual, which you can access the product, the use of methods, equipment performance and attention to security matters and other areas of knowledge. At the first to use instruments before, be sure to carefully read and this will help you make better use of the product.

In preparing this statement, we are very careful and humble, and that in the statement that the information provided is accurate and reliable, yet it is hard to avoid errors and omissions, please bear with more enthusiasm and welcome you for correcting me.

The Company reserves the right to use machines to improve and upgrade the functions of the authority, if we find that the use of instruments in the course of their functions and incomplete statements on the same apparatus to the actual function to prevail. In the course of using the product if they have any questions, please call our telephone service,

Thank you for your cooperation.



Transformer Resistance Test Instrument

Please read the manual carefully before using the equipment.

Ensuring safety is your responsibility.

The manual version: 3.14-2008

1、 If changes to the manual, please forgive without prior notice.

Summary

Transformer resistance test is the necessary test item for the delivery test, installation and transfer test of the semi-finished and finished products that in manufacturing .It is also the necessary test item for the electricity sector preventive test. It can effectively find and the manufacturing defects such as: selection and welding of the transformer coil; loosing, missing shares, break wire of the connecting parts. And it also can effectively find the hidden danger that after running. To meet the rapid measurement of the transformer winding resistance needs, our company used their technological advantage, developed this instrument. It adopted new power technology, which has s characteristics such as small volume, light weight, and large output current, etc. The whole unit is controlled by a monolithic processor which can complete automatic self-test, data processing and displaying. It also has automatic discharge and discharge instructions function. With high testing precision, easy to operate advantages, it can realize the rapid measurement of the transformer winding resistance.



2、 Safety measures

- 1)、 Please read this manual carefully before using the equipment.
- 2)、 Equipment operators should possess general electrical equipment or apparatus used common sense.
- 3)、 The equipment can be used in and out of doors, but should avoid rain, corrosion gas, heavy dust , high temperature, direct sunlight and other places.
- 4)、 Instrument should avoid violent vibrations.
- 5)、 Right equipment maintenance, care and adjustment should operate by the professionals.
- 6)、 After completed the test, must wait until the discharge alarm stop, and then the power can be turned off, test line can be dismantled.
- 7)、 Measurement of no-load regulating transformer, you must wait until the discharge instructions alarm sounded stopped, then you can switch stalls.
- 8)、 In the testing process, the test folder and the power lines must not be moved.

3、 Characters

- 1)、 Large out put current, light weight.
- 2)、 The instrument can select the output current automatically, maximum output current 10A.
- 3)、 Wide measuring range, 0-20 k Ω , can measure all the sentimental Winding Resistance which below 110 kv levels.



- 4)、 Perfect protection circuit, strong reliability.
- 5)、 Vertical structure, it is convenient to operate on site.
- 6)、 Audio discharging warning, indication clearly that cut down the mistaken operation.

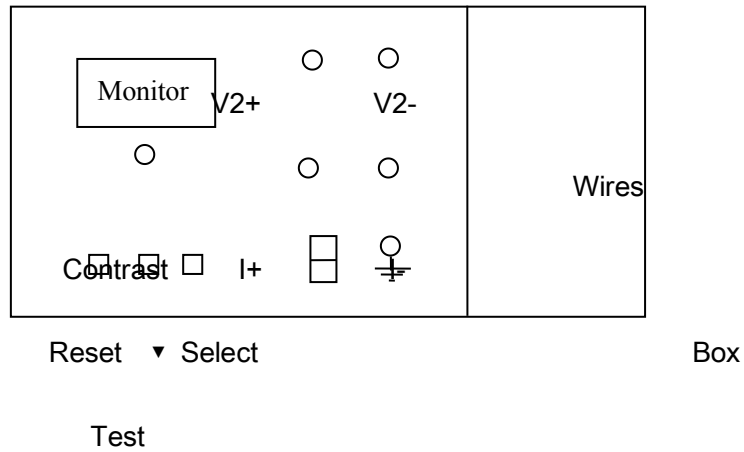
4、 Technical Index

- 1)、 Output current : 10A、 5A、 1A、 100mA、 <4mA
- 2)、 Range : 0 ~ 0.6Ω (10A)
 - 2mΩ ~ 3Ω (5A)
 - 10mΩ ~ 20Ω (1A)
 - 100mΩ ~ 200Ω (100mA)
 - 200Ω ~ 20kΩ (<4mA)
- 3)、 Accuracy: 0.2%±4μΩ
- 4)、 Minimum Resolution : 0.1μΩ
- 5)、 Working Temperature: 0~40°C
- 6)、 Environment Humidity : ≤90%RH , no dew
- 7)、 Working Power : AC220V±10% , 50 Hz ±1Hz
- 8)、 Volume : Length 380mm, width 230 mm, height 250mm
- 9)、 net weight: 11.2kg



5、 System Specifications

The panel of the instrument. See Fig.1



(Fig.1)

- 1)、 Power switch: Unit Power Input mouth, with the exchange outlet, warehouse and insurance switch.
- 2)、 I +、 I-: Current output terminal
- 3)、 Ground Column, as a protectorate, used for the equipment shell grounding.
- 4)、 V +、 V -: Input voltage terminal.
- 5)、 Display: 128 x 64 lattice liquid crystal monitor, display current menu 、 and current and resistance data.
- 6)、 Contrast: Can adjust the character 's Contrast
- 7)、 Reset Button: Press this button ,the whole unit can turn back to the initial state, cut off the current output.

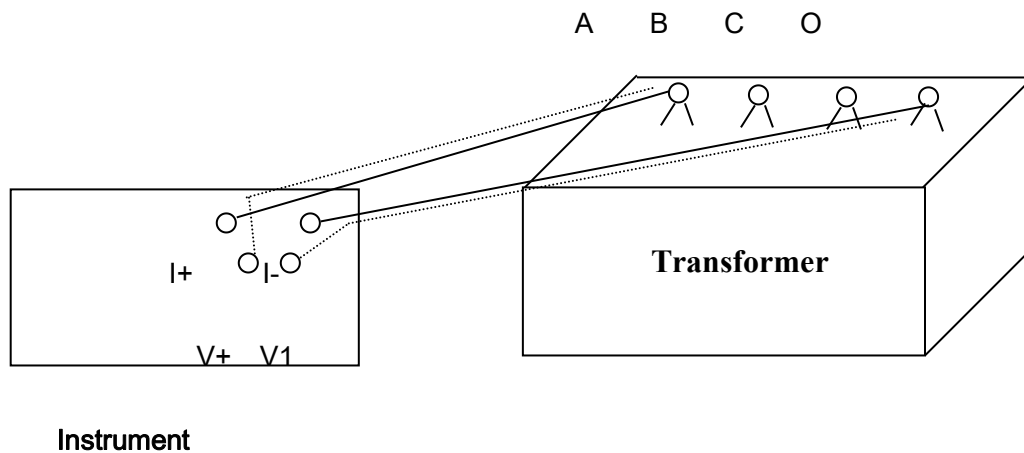


8)、▼ key: The cursor movement key, the cursor will be used moving between the menu items, the selected item appears to anti-white display.

9)、Select / Test: After selected the menu, then press this button, change the menu contents. Press the button under the test menu, then the device will start to test according to the selected range. After displaying the resistance data, press the key for 1~2 seconds, the device will be restarted and cleared out the inaccurate and old data which in the data buffer

6、Test and Operation Method

1)、Wiring: Connect the test product fasten with test wiring column of the instrument by special cables. Connect the ground wire at the same time. See Fig. 2.



(Fig.2)

2)、Current options: open the power switch, the screen will be displayed in figure 3, then can choose current through “select// test” button . Each click selection key, the screen will scroll in the current, 10A , 5A, 1A, 100mA, 4mA, 5A , 10A.....

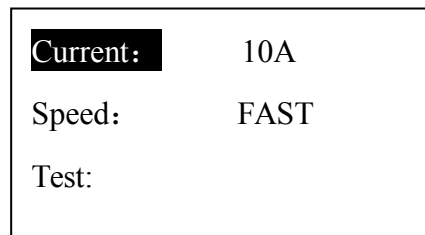


Fig.3 Main menu of the starting

3)、 speed options: when chose the "speed" menu, press this key then you can choose the speed "fast" and "slow", apparatus defaults to the "fast" mode. When the measurement of low-voltage of the large-capacity transformer data is instability, there is a recommendation of using the slow way measurement, and enhance stability.

4)、 Testing: After elected menu contents, under "test" menu, press the test button to begin testing. The screen instructions charge current value, at the same time suggested that "charging, please wait." When current is stable ,the screen display the used test current, while suggest that "testing , please wait ".Then there shows the current value and the resistance values, at the same time ,the words" testing " is starting flashing, press the test key, it can re-test and the currents remain unchanged.

If the selected is too small when test, it will prompt "please change large current." For the current is too small that it is not good for the signal stable. So it need change the current, let apparatus raise output current. Special circumstances need not to change for current, press the test button to continue to test. Then it will start normal test equipment.



If the chosen range is too large when test, it would prompt " please change small current."

because the resistance is too large, the apparatus current can not reach up, so it need change the current.

5)、 After the testing has been completed, press the "reset" button, the equipment power supply will be disconnected with the winding, at the same time there is discharge, audio alarm, then the display screen return to the initial state. When the audio discharge is completed, it can be re-wiring, start for the next measurement or it can be discard the test line and the power line, for the end of the measurement.

7、 Note:

- 1)、 It is must be reset when testing the no-load regulating transformers inverted-load ; when finished the discharging and the alarm sound stopped , then you can switch the tap.
- 2)、 When test HV side of the transformer resistance, you should start the measurement from the 1 or 17 greatest resistance stalls begin.
- 3)、 We have to wait until the discharge finished and the alarm sound stopped, then we can removed wires.
- 4)、 We have to reference the range specifications which in the column when choosing the current.

Make sure that the current is not exceed or less the range. When in ultra-range, the current can not reach to the default, the equipment will be in "Charging...Please wait"state. When there is in less range, showed that the "Please change larger current".If there are



these two states, you should check the range, and select the appropriate current then testing that you can start to test.

8、 Complete sets of equipment

host machine	1
test line	1
Three core power line	1
Insurance tube	2
Certification / warranty card	1
Packing list	1
Operation Manual	1

9、 After-sales Service Commitments

A high-quality products, services only with a sound system to complement each other, we are not only with our outstanding technology, reassuring quality for our services purpose, but also with warm and thoughtful, made customers satisfactory services for our enterprises highest level. When you select our equipment products, you will feel our warm and thoughtful, timely and effective service. Here, we commitment to do well as the following services:

- 1) 、 help users to choose the right products



In the future users advice and equipment reselection process, according to their requirements, we can introduce and recommend our products in detains and true. We also can help user to select appropriated, high quality and reasonable priced equipments, to be their good advisors.

2) 、 train staff for users

We can train the relevant staff targeted accordance with the needs of users . We help them to master the methods of operation then to meet the perfect combination of the production enterprises and the operation of the units.

3) 、 Responsibility for the quality of products

Free Warranty for 1 year. In the quality guarantee period, if there is quality issue (reasons for our company's), we can maintenance it for free. In this period, our commitments for users' opposed service requirements are as follows:

(1) 、 When there is product fault, a four-hour emergency service will be provided; and within 12 hours there is a reasonable solution;

(2) 、 Upgrade freely for the whole product life.

(3) 、 There is a customer service hotline. We can offer user technical advice and technical services whole day.

At the same time, welcome friends old and new to raise valuable advice for our changing and improving in time. We are not only to promise the above services, but also willing to make our promises into practice. We will service customers wholeheartedly. And



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we will meet users requirements with our timely、 effectively and satisfactory services all
the time .

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