ES3080 Three-channel DC Resistance Tester

Ⅰ. Characteristic

ES3080 DC resistance tester, also known as transformer DC resistance tester, etc., is mainly to check whether the connection between windings, between windings and leads or whether the mechanical properties are good, whether the resistance between each phase winding is balanced, etc., to ensure the safety of the transformer. run.

Transformer DC resistance tester is a new type of instrument used to measure the DC resistance of large-capacity transformers. It is designed as a high precision current stabilized power supply and test assembly. During the testing process, it is controlled by computer and automatically completes steady-state judgment, data acquisition, data processing and resistance measurement. Numerical display and printing. The instrument can be used for longitudinal testing of on-load voltage regulators with one-time power supplies, thus completely saving testing time. It also has a temperature rise test function for transformer manufacturers. It has the characteristics of simple operation, high precision, anti-interference, etc. It can quickly and accurately measure various types of transformers. The magnetization method is to charge the low winding by generating a magnetic field for the high winding output current. With the help of the excitation ampere-turns of the high-voltage winding, the winding inductance is greatly reduced by passing a small current, so as to shorten the measurement time and achieve the purpose of fast measurement. It should be noted that when the DC resistance of the low-voltage winding is measured by the magnetic-assist method, the current directions of the high-voltage and low-voltage windings on the same core column must be the same, so that the magnetic-assisting effect can be achieved.

ES3080 DC resistance tester is composed of host, test line, ground rod, etc. It has the functions of reading, viewing, saving, and printing historical data.

Ⅱ. Range and Technical Specifications

Function	DC resistance measurement, transformer DC resistance measurement
DC Resistance	0.0001mΩ~5000Ω Accuracy: ±0.2%FS±5dgt Minimum resolution: 0.001mΩ
Output current display	0.01mA~20.000A
Conversion resistance	The winding material and measured temperature can be converted
Three-phase unbalance rate	Automatically display the unbalance ratio of three-phase windings.
Tap position	The tap position can be set manually in the settings interface.
Rated measuring power	1000W
Power supply	AC 220V 10A (50Hz)
Backlight	Adjustable backlight brightness
Measurement method	Four-wire test
Magnetic aid test	High and low voltage output current, test the resistance of low voltage terminal
Short circuit test current	0.2A, 0.5A, 2A, 5A, 10A, 20A (6 settings)
Short circuit maximum current	DC 20A±10%

No-load maximum voltage	DC 27V±10%
Display mode	7 inch touch color screen
Touch screen	Yes
Measurement instructions	Measurement progress display, measurement prompt animation display
Meter size	Length, width and height: 540mm×440mm×210mm
Standard test lead length	8
U disk interface	Special interface for connecting U disk
USB interface	Connect to a computer with a USB cable to query and save data
Print	Built-in thermal printer
Paper Specifications	57*40mm
Data storage	500 groups
Data access	Have
Overflow display	Overrange overflow function: "OL" symbol display
Automatic shut-down	none
Power consumption	Standby: <110W
	Measurement: 1000W
Quality	Gauge: 27 kg
	Test lead, auxiliary ground rod, instrument bag: 5.5kg
Working temperature and humidity	-10℃～40℃; below 80%rh
Storage temperature and humidity	-20℃～60℃; below 70%rh
Insulation resistance	10MΩ or more (500V between circuit and case)
Pressure resistance	AC 3700V/rms (between circuit and case)
Suitable for safety regulations	IEC61010-1, IEC1010-2-31, IEC61557-1, 5, IEC60529 (IP54), pollution, etc. 2, CAT III 300V

Ⅲ. Packing List

Meter	1 set
Instrument bag	1
Test line	8
220V power cord	1
Manual, Warranty	1 set

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