

Motor Stator Testing System

6910/6913/6917 + 7605

Features

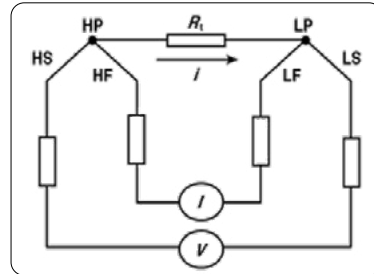
- One stop motor coil measurement solution, measuring items included inductance, AC/DC hipot, impulse winding, DCR (temperature compensation), polarity
- 4-wire DCR measurement
- Storage file up to 100 sets
- It can test multiple sets of DUTs simultaneously (depending on the number of winding set of the product)
- Arcing detection function
- The impulse winding tester with waveform comparison is a non-destructive analysis
- PC connection data analysis software is available

Application

Motor, various stator and rotor coils

Key Features

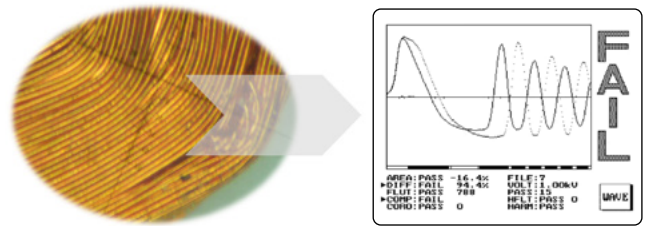
A 4-wire Measurement DCR



Motor stator coil

Unbalance DCR which happen on 3 phase motor may cause deflection on motor.

B Waveform Comparison



Impulse winding tester inspect by waveform comparison technology. Inspect quality by Damping Attenuation Waveform. The tester offer 200V~3000V impulse voltage to test the DUT. Compare the golden sample waveform.

C Stator Coil Testing Items

6910/6913/6917 Impulse Winding Tester

- Total Area Comparison
- Area Differential
- Waveform Comparison
- Corona Comparison
- Flutter Comparison
- DCR

7605 Hipot Tester

- AC Hipot
- DC Hipot
- AC Leakage Current
- DC Leakage Current
- IR
- Arcing

6365 (option) LCR Meter

- Inductance



Accessories/Fixtures

Standard

- Power Cord
- Hv Test Cable
- Temperature Test Probe
- RS-232 Cable
- 25F-25F Cable
- D-Sub Foot Switch

Optional

- PC Link Software
- Customized Fixture
- Customized Rackmount
- LCR Meter 6365

Specification

Model Name	MT-6910	MT-6913	MT-6917	MT-6913L
DCR Range (with temperature compensation)	0.1mΩ-100kΩ			0.1mΩ-150Ω
DCR Accuracy	Low Resistance: 0.1mΩ-1Ω ±(0.2%±1mΩ), High Resistance: 1Ω-100KΩ±0.1%			0.1mΩ-200mΩ ±(0.1% ±0.5mΩ), 200mΩ-1Ω ±(0.1% ±2mΩ), 1Ω-150Ω ±0.5%
Three-phase Resistance Balance Test	Comparison mode	<ol style="list-style-type: none"> 1. Absolute difference between two sets of coil resistance values 2. The ratio of the absolute value of the difference between the two groups of coil resistance to the standard value 3. The ratio of the absolute value of the difference between the resistance of two sets of coils to the average value of the measured resistance of three sets of coils 		

Measuring Mode	4-wire			
Channel	8 (6910)	13 (6913/6913L)	17 (6917)	
Hipot	AC Output Voltage	100V-5000V	100V-3000V	100V-3000V
	DC Output Voltage	100V-6000V	100V-3000V	100V-3000V
	IR Output Voltage	100V-1000Vdc		
	AC Leakage Current	0.001mA-10mA		
	DC Leakage Current	0.001mA-5mA		
	IR Lower Threshold	1-9999MΩ		
	Arcing Detection	Detect gears from 0-9		
	Measuring Time	0.1-99.9s Continuously adjustable		
Measuring Time Accuracy	±(3% of setting+5V)			
Impulse Winding	Impulse Voltage (programmable)	200V-5000V	200V-3000V	
	Impulse Voltage Accuracy	±2%		
	Test Items	Total area comparison, differential area comparison, wave comparison, futter and corona		

6365 LCR Meter (option)

Test Frequency	10Hz-200kHz		
Inductance Measurement Ranges	0.1nH-100kH		
AC Drive Level	10mV to 2Vrms (1m Vrms resolution)		
Basic Accuracy	±0.1%		
Frequency Output Accuracy	±0.01%		
Three-phase Inductance Balance Test	Comparison Mode	<ol style="list-style-type: none"> 1. Absolute value of the difference between the two sets of coil inductance 2. The ratio of the absolute value of the difference between the two sets of coil inductance to the standard value 3. The ratio of the absolute value of the difference between the inductance of the two sets of coils and the average value of the measured resistance of the three sets of coils 	

General

Test fixture	According to the test requirements
Indicator	Pass/Fail Screen Diaplay/Sound
Power Supply	Voltage 90-132Vac or 198-264Vac
Power Consumption	350VA (691X+7605)
Interface	RS-232
Built-in Storage	Storage of 100 rewritable data sets
Operation	Manual, RS-232
Environment	Temperature: 10°C-40°C, Humidity: 20-90%RH
Display	7.0" TFT, 800×480 color screen (6365), 320*240 5.7" dot-matrix display (6910/6913/6917), 480*272, 4.3" TFT LCD (7605)
Dimension (W*H*D)	435×145×522mm (6365), 435×190×522mm (6910/6913/6917), 435×145×522mm (7605)
Weight	9kg (6365), 15kg (6910/6913/6917), 14kg (7605)