

PC Based Automatic Sequential Analyzer

Model: D-9003 AS-EV

The PC Based Automatic Sequential Analyzer is the most comprehensive tester designed to automatically check the quality of EV stators in fast paced production motor shops.



Features

- Infinite Model Storage Capability
- Job Work Management Area
- 17 Inch DELL Monitor with ADVANTECH Industrial PC
- LABVIEW Software Based Application
- Permission Based Login System
- Software Defined Limits For Test Parameters
- Online Support & Calibration Using Remote Access s/w
- Bar Code/QR Code Reading Facility

Benefits

- Test Bench To Save Loading & Unloading Time
- Temperature Compensated Resistance Test
- 17 Inch Colour Coded Display Screen
- Audio, Visual Alarm For Faulty Stator
- Printer Can Be Connected Via USB For Direct Printouts
- MS Excel Report Generation (Pie & Bar Charts)

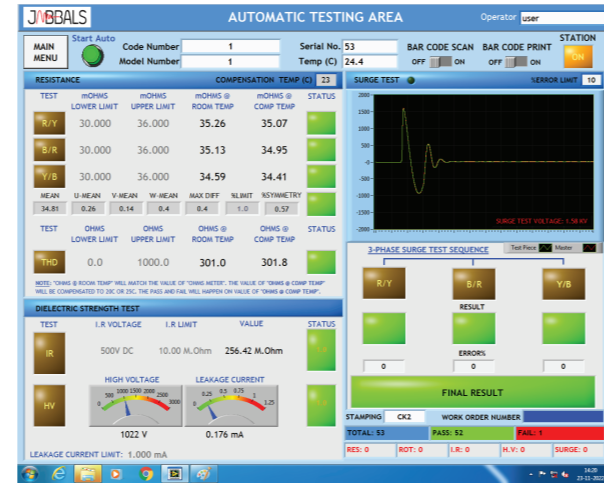
Applications

This tester is widely used for testing newly and rewound motors. It helps in finding and predicting the faults in EV motors before it actually happens. This tester is used in the motor shop and in field to test the following:

- EV Stators



The latest surge tester is in accordance with IEEE Standards and CE Compliant.



Test specifications

The Automatic Sequential Analyzer performs the tests in the following sequence & in case of a fault; it stops the sequence of tests & sets off a buzzer alarm to the user.

I) Resistance Test with Temperature Compensation

The Resistance test detects the variance of resistance values between the phases by applying a constant current to the winding and picking up the potential drop across it. The Resistance value is compensated to either 20 C or 25C ambient temperature as per the user requirements.

Resistance Range	
Range 1	1.00 - 100.00 m.Ohms
Time	0-10 sec

II) I.R (Megohm) Test

The I.R test checks the strength of the ground wall insulation that can be damaged due to dirt, carbon, moisture or weak wire insulation.

Test Voltage	500 Volts (DC)
Test Time	0-10 sec
I.R Limit	0-200 MΩ

III) H.V Flash Test

The H.V Flash test once again checks the strength of the ground wall insulation but at a higher applied voltage than the I.R test. If there is sudden surge in the leakage current it indicates that the ground wall insulation is weak and the test has failed.

Test Voltage	0-2.5KV AC (Adjustable)
Test Time	0-10 sec
Overtrip Leakage Limit	0.1-10 mAmps

Accessories

- Test Bench To Save Loading Unloading Time
- Inhouse UPS For PC And Monitor
- Housed In Dust Free Enclosure
- Inhouse Constant Voltage & Frequency Supply Source

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SPECIFICATIONS OF PC

- 17 Inch DELL Make Monitor
- ADVANTECH Make Industrial PC
- Windows 10 / MS Office 2015 / Anti Virus
- Dust Proof / Water Resistant / 0-60 C
- 6 USB Ports, VGA Port, LAN Port
- Wireless Keyboard & Mouse
- NATIONAL INSTRUMENT DAQ Cards
- NATIONAL INSTRUMENT Temperature Sensor

IV) Masterless Surge Test

The Automatic Surge test is performed on each phase of the stator to detect the turn-to-turn, coil-to-coil and phase-to-phase insulation and compared with the stored master waveform.

Max Surge Voltage	0 - 3000 Volts (Adjustable)
Max Pulse Current	1000 Amps
Max Pulse Energy	4.5 J
Impulse Rise Time	0.1-0.2 μS
Impulse Repetition Rate	50 Hz
Vertical Sensitivity	250V/DIV 500V/DIV, 1000V
Sweep/Time base	10 uS - 10mS
Input Test Voltage	
Operating Voltage	230V ± 10%
Power Consumption	300W
Weight (full panel)	100kgs (approx)
Physical Dimensions	550 X 1700 X 650 (mm)

