

MSU100/101[®] Stator Tester

Universal Winding Tests

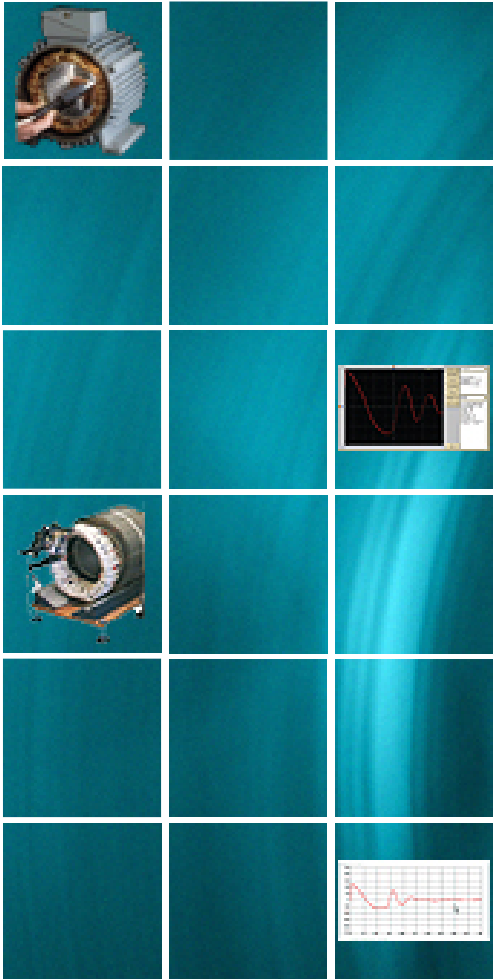
together with

Performance Tests

R&D and Quality Assurance
Production Line



U.S. and International Patented System



MEA MSU100 Series – Fully automatic SURGE testing of 3 phase and single phase stators, armatures, transformers, and motors, ranging from 10 W to 500 kW, and patented Stator/Rotor performance testing.

MEA MSU101 Series – Customized fully automatic production line testing system with SURGE Testing of 3 phase or single phase stators, armatures, transformers, and motors, ranging from 10 W to 500 kW. The system can be also equipped with automatic testing of H.V. and 4-wire resistance, temperature, and patented Stator/Rotor performance testing.

PERFORMANCE TESTING – MEA patented tests

MEA patented performance testing provides fully automatic Stator/Rotor performance tests, showing the UUT performance as it will be after assembled as motor.

Features and Benefits

- Integrated database.
- 200 V up to 5 kV programmable impulses.
- Option for Partial/Low-Energy Discharge.
- Go-No Go tests with comparison detection of: Area Size, different zones, corona amount, and corona numbers.
- Performances tests comparison at cold and hot state (temperature tests via up to 8 thermocouples).
- Interfaces: RS-232, USB, Ethernet (for remote control).
- Can be controlled via I/O for OEM applications and easy integration for automatic lines.
- Special self-calibration function. No need to send back for vendor's calibration, saving time and costs.
- MSU101 integrated and operated with PC having user-friendly Windows 7 interface, with large database for storing test programs and test results.
- Barcode reader, individual print-out of test protocols and labels, of H.V. and 4-wire resistance, and temperature measurement can be integrated into the system.

Surge Testing



M.E.A. Testing Systems Ltd.
www.meatesting.com

MSU100® - MSU101® SURGE Testing Systems

The SURGE TEST is the best way for testing the inner insulation of a coil, the influences of winding materials, magnetic materials, framework, and for finding internal short circuits or existing defects which are not electric.

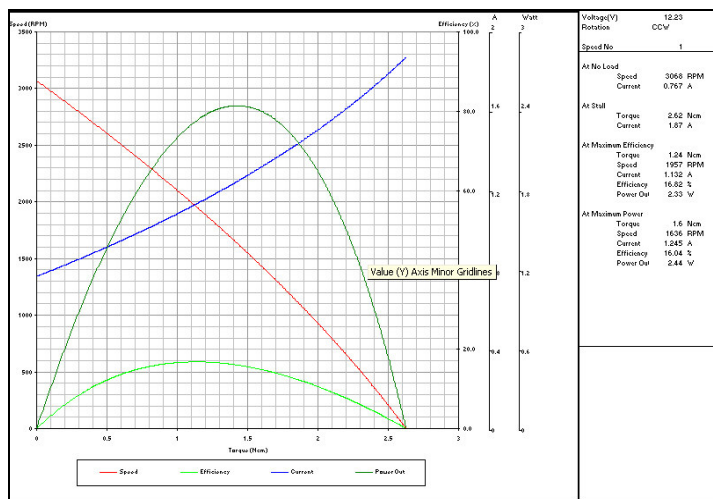
MEA patented fully-automatic PERFORMANCE TESTING shows the Stator/Rotor performances after being assembled as a motor, including Torque vs. Speed, Efficiency vs. Speed, Power Input, and Power Output.

The MSU101 series enables fast testing of the magnetic and mechanical performance, the winding reliability and detection of possible insulation faults. The MSU101 evaluates test step by test step, allowing to define the exact test sequence desired to be performed. After the test process has been completed, it generates a clear and reproducible GO or NO GO statement. The system operates with a PC having user-friendly Windows interface with a large database for storing test programs and includes a clear structured display of the test results. Operators, on the other hand, have extensive possibilities for input and configuration features, for PDF/Excel reports and statistical analyses. With a number of protocols the quality of the tested products can be documented.

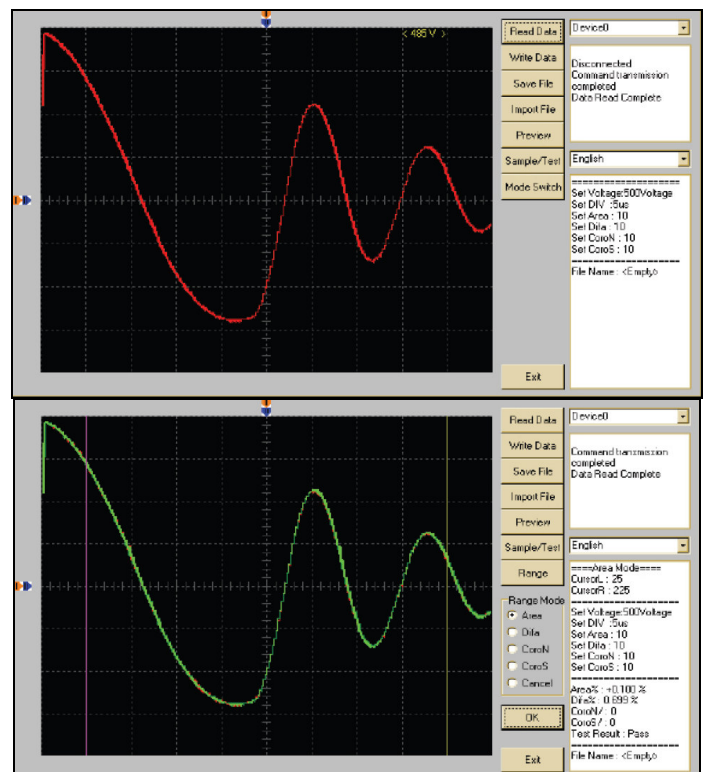
Specification

Test	Min	Max	Steps
Testing Voltage	200 V	5 kV	100
Sampling Rate	-	100 MHz	-
Input Resistance	-	10 MΩ	-
Test	Value		
Weight	5.3 kg		
Communication	1. USB 2.0 2. RS-232		
Temperature	25 °C~40 °C		
Power	110 V/220 V AC		

Performances Test Results Example



SURGE Test Example



Surge Testing

- Customized solutions
- Customer support
- Technical services
- 1-Year warranty
- Optional extended warranty program
- Local sales offices throughout the world

