

SW 6000 Automated Winding Test System

Manufacturers of stators, coils, alternators, rotors and other types of motor windings need the most dependable and proven test system. The SW6000 Automated Winding Test System for stators and coils is fully functional as a stand-alone unit or in a standard 19 inch rack system and performs common in-process electrical tests in one instrument. Test systems include Kelvin Resistance, AC HiPot, DC HiPot, and Surge in a much lighter and more functional design. Other tests and functionality including temperature compensation for resistance, rotation direction (available Spring 2006), remote master selection and custom data collection software are available as options.



Advanced Design

- Lighter, more functional design
- Easily programmed with multiple masters
- Digitally stored "Masters" hold Pass/Fail criteria
- Embedded computer design, no need for external computer
- Automated Lead Switching (up to 3 leads)
- Parts Counter
- An optional PLC interface for automated manufacturing lines is available
- Optional Data Collection Software offers real time data collection anywhere in plant via network interface capabilities.

Fixtures

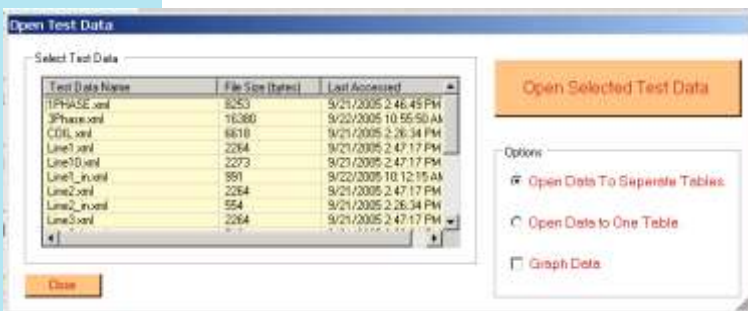
The SW6000 Automatic Winding System can be easily configured for use with standard single station fixtures which include control consoles, safety interlock switching and alligator clip terminations. In addition, test fixtures can be custom built to specifications for testing with multiple types of windings.



Optional Equipment/Tests

Remote Master Selection: Store up to 15 of the 64 masters available within the SW6000 in this accessory module. Have convenient one button access to these masters and be able to verify master selection instantly through a lighted panel. This accessory will also act as a PLC connection for remote start, safety and pass/fail conditions along with being able to select masters through the PLC. This module will offer a greater degree of flexibility and convenience for quickly changing over parts.

Data Collection Software: Quickly compile, place and view your data in a easy to understand and useful format - even from multiple SW6000's at the same time. Report generation is as quick and easy as hitting the start button for testing. This software has the ability to attach to the network setup within plant operations and gives you the ability to evaluate real time data. View data quickly and understand how



your quality control processes are working.

System Specifications

Storage:

64 Part Masters

Programming: winding library simplifies master setup

Peripherals

Display: 320 x 240 QVGA LCD Monitor

DC HiPot

Voltage: Programmable 500 - 6000VDC in 50 VDC increments, +/- 5% accuracy

Current: 100mA maximum, 1mA increments, programmable pass/fail limit in 1mA increments, +/- 5 percent

Duration: 1 second

AC HiPot

Voltage Programmable 200 - 3500 VAC in 50 VAC increments, +/- 5% accuracy

Current: 20mA maximum, 1 mA or 0.5mA resolution, arc detection for improved fault detection, +/- 5%

Duration: 1 second

Leakage current installed: Total and Absolute Leakage Current

Resistance Test

Autoranging

4 digit resolution

0.4% of full scale accuracy in each range

0.2% of full scale repeatability

Kelvin leads and contacts

Surge Test voltage:

Programmable 500-6000 volts peak in 50 volt increments, +/- 12% accuracy

Pulse Energy: 0.5 joules maximum

Discharge Capacitor: 0.4 mF

Load: Greater than 100 mH

Programmable pass/fail percentage limit based on Baker Instrument Company's patented Error Area Ratio technique.

Weight: 37 lbs

Dimensions: 19 x 9 x 15 inches



Specifications:

- AC HiPot - 3500 VAC 20 mA
- AC HiPot Arc detection
- DC HiPot - 6000 VDC 100 mA
- Resistance - 2 mOhm - 20 Kohm
- Surge - 6000 V 0.7 Joules Pulse Energy

Power Requirements:

- Input Voltage: 115 VAC 46 - 67 Hz Single Phase
- Power Consumption: 600 VA Maximum
- Overcurrent Protection: Two pole magnetic circuit breaker.



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