



Baker SW6000

Automated Winding Test System

Manufacturers of stators, coils, alternators, rotors and other types of motor windings need the most dependable and proven test systems. The SW6000 automated winding test system for stators and coils is fully functional as a standalone unit. It performs many common in-process electrical tests automatically.

Tests include Kelvin Resistance, AC HiPot, DC HiPot and Surge in a compact instrument enclosure. Other functionality includes temperature compensation for resistance, remote master selection and data collection software.



The SW6000 offers many standard electrical tests. The sequence consists of AC and/or DC HiPot tests, Resistance tests and finally the Surge test.

The instrument offers automated lead switching (up to 3 leads), has a parts counter, digitally stores pass/fail masters, and has optional data collection software. All test parameters and pass/fail limits are preprogrammed in a master file.

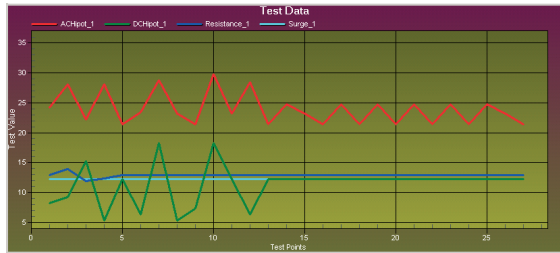
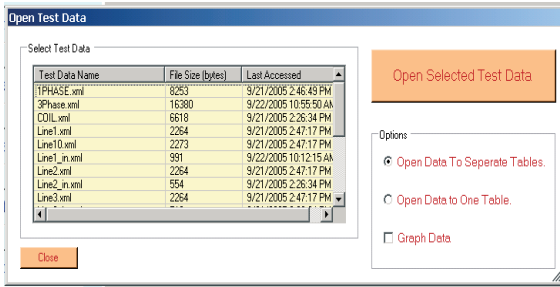
Fixtures

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 many types of windings.

Optional CG6000 data collection software

Compile and view your data in an easy to understand and useful format. Up to 12-SW6000's can be interfaced with one CG6000 data collection software package. Report generation is as quick and easy as hitting the start button for testing. This software has the ability to connect to a dedicated Ethernet network. 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 to 6,000 V DC in 50 V DC increments, $\pm 5\%$ accuracy
Current: 100 μA maximum, 1 μA increments, programmable pass/fail in 1 μA , $\pm 5\%$

AC HiPot

Voltage: Programmable 200 to 3,500 V AC in 50 V AC increments, $\pm 5\%$ accuracy
Current: 20 mA maximum, arc detection for improved fault detection, $\pm 5\%$
Duration: 1 second
Leakage current: Total or resistive leakage current

Resistance

Autoranging
3.5 digit resolution
0.4% of full scale accuracy in each range
0.2% of full scale repeatability
Kelvin test leads
Ambient temperature compensation
Non-Kelvin alligator clips

Physical characteristics

Weight: 37 lbs (16.8 kg)
Dimensions: 19 x 9 x 15 in. (483 x 229 x 381 mm)

Power requirements

Input voltage: 115 V AC, at 46–67 Hz single phase
Power consumption: 600 VA maximum
Overcurrent protection: Two pole magnetic circuit breaker

User interface

PLC interface with safety and start inputs and testing, pass, fail and 6 BCD I/O for remote master selection
RS-232C for data collection

Options

CG6000 Ethernet data collection and report generation package
24-601 230 VAC to 115 VAC voltage transformer
42-521 Kelvin alligator clips

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