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, ±5% accuracy
Current: 100 μA maximum, 1 μA increments, programmable pass/fail in 1 μA, ±5%

AC HiPot
Voltage: Programmable 200 to 3,500 V AC in 50 V AC increments, ±5% accuracy
Current: 20 mA maximum, arc detection for improved fault detection, ±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

Baker Instrument Company, an SKF Group Company
4812 McMurry Avenue, Fort Collins, CO 80525, USA
T: +1 970/282-1200 - 800/752-8272 F: +1 970/282-1010
www.bakerinst.com

© SKF is a registered trademark of the SKF Group.
™ Baker is a trademark of the SKF Group.

Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

© SKF Group 2008
The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

Publication 6801 EN - July 2008
Printed in USA on environmentally friendly paper.