



SIVA INSTRUMENTS

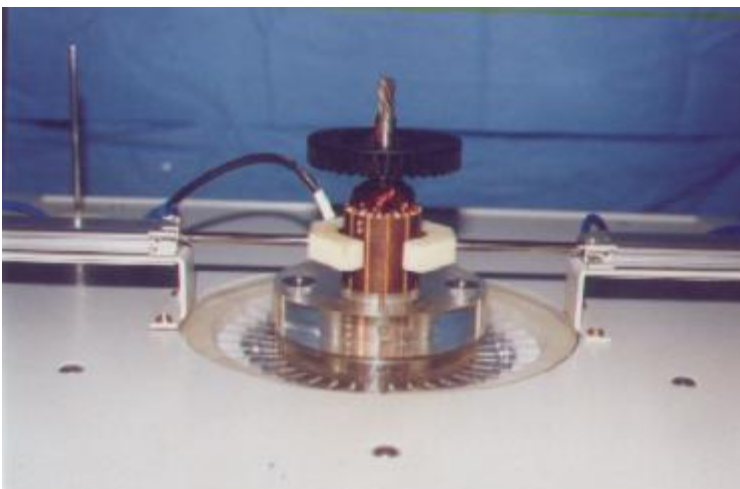
Rotor Test System

Model :RTS



Rotor Test System - RTS

RTS, the state of the art automatic test system is a cost effective armature testing solution. Intuitive software to guide the operator, Graphical failed segment indication through unique segment matching algorithm for quick physical identification of faulty segment. Custom designed test fixtures for faster testing and minimal operator fatigue. ATS now comes with special weld resistance test to check for poor quality joints in hot stacked/welded/brazed connections.



Pneumatic test fixtures made for a German Power tool manufacturer for testing 36 segment armature. It can accommodate armatures with same no. of commutator bars with difference in commutator dia ± 5 m.m and core dia ± 10 m.m .from nominal dimensions.

For larger armatures like traction armatures, automatic indexing table with optical sensing is supplied.



- * WIN - 9 x and MSDOS versions
- * Intuitive menu driven software and consistent GUI
- * Modular/Object-oriented/Scaleable
- * ALL-IN-ONE screen for testing and viewing results
- * Flexible test configuration
- * Programmable sampling rate and gain
- * Custom reports
- * Statistics and trend management
- * ODBC enabled
- * Multi-language support

OTHER PRODUCTS AND SERVICES

- * Analog surge testers upto 15 K.V. (Built-in and external oscilloscope)
- * Turnkey custom built testing solutions.
- * Design and development of software, hardware, jigs and fixtures
- * Pilot study, proto-typing, feasibility evaluation

RTS and STS are built around modules. Unique bus matrix design provides "ANY TEST ON ANY LEAD" flexibility. All modules are computer interfaced through AD/DA/DIO.

THE MODULES RESISTANCE TEST

Test method : 4 wire kelvin
 Test current : 100 mA to 1 A*
 Upto to 10A++
 Range : 1 m ohm to 2000 ohm
 Resolution : 3 1/2 digits.
 Accuracy : 1% F.S. range
 Temp Compensation for 20° C

SURGE TEST

Test Voltage : 500 to 6000 V
 Pulse energy : 0.625 joules (max)
 Discharge : Automatic
 Sampling rate : Upto 20 MSPS
 Comparison : Highly reliable, error Index algorithm.

A.C. HIGH VOLTAGE TEST

Test Voltage : 500 to 3500 V
 Leakage Current : 0 to 20 mA.
 Trip Limit : Programmable in mA.
 Duration : 1 to 60 secs

NEUTRAL ZONE TEST +

Test Method : Proprietary

* Checks the Neutral Zone angle.

WELD RESISTANCE TEST +

Test Current : upto 1A
 Resolution : 10 micro ohm (min)

THERMISTOR TEST *

Range : Upto 200 K ohm

DIRECTION OF ROTATION *

Test Method : Hall effect sensor/dummy rotor

TEST VOLTAGE CONTROL

Solid- state SMPS with feedback control.

DAC interface for accurate, smooth and quick voltage setting.

DIGITAL HARDWARE

PC based open architecture affords upgradability. PC-104 /ISA High Speed ADC/DAC/Digital I/O cards. Flash disc for portable applications.

JIGS AND FIXTURE

Custom - built single/dual test station
 Pneumatic/mechanical /opto-indexing test fixtures.

Note : * - applicable to STS only

+ - applicable to RTS only

++ - Bar to Bar or Span

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› reserves the right to update it's system. Hence, information in the brochure is likely to change without notice.

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