



SIVA INSTRUMENTS

Digital Surge Comparison Tester Model:E3K

Digital Surge Comparison Tester with LCD Display
(Monochrome 320 X 240 pixels)



Three Phase Stators & Motors



Two Phase Stators



Single Coil

FEATURES

- 1) Automatic Pass/Fail indication with Green & Red Lamps. (User Settable ERROR)
- 2) Voltage, Sweep rate & ERROR setting can be easily done by front panel knob.
- 3) Portable model, user friendly, simple to use.

ABOUT SURGE COMPARISON TESTER

Surge Waveform is basically damped oscillations caused by discharging energy capacitor through coil under test. Unlike in conventional surge tester, master coil is stressed once, waveform is stored in memory and can be compared with other objects under test.

Various modes of operation are available.

- Coil to other coil is compared in which reference coil is always connected.
- One reference is stored, master coil is removed and compared with one coil at a time.
- One stored reference is compared with two coils at a time for increased production.
- Can be used for testing single phase motors with start winding and run winding, i.e. two different references.
- Can be used for testing three phase motors.

TECHNICAL SPECIFICATION

Max. Surge Voltage :	0-3000V
Sweep Rate	: 60 μ s/div to 100ms/div
Voltage Setting Accuracy	: $\pm 2\%$, ± 2 Digits
Max. Joules	: Standard- 1 Joule Optional (2J, 2.5J, 2.88J)
Max. Surge Current :	Standard-400A Optional 800A,
Test Time	: 2 Seconds per waveform.
Inductance of Test Object	: Min 100 μ H to 10 H & above
Power Supply	: 230V $\pm 10\%$, 50Hz



Digital Surge Comparison Tester

STANDARD ACCESSORIES

- EHT Cable leads for connecting Surge outputs (2 outputs)
- Power Input Cable with 5A Plug.

OPTIONAL ACCESSORIES

- Foot Operated Switch

Note: Optional Features and Accessories at extra cost.

FRONT PANEL



OPTIONAL FEATURES

- 1) Thermal Printer
- 2) PC Connectivity

Note: For Armature testing separate model E3K-M is available with the same above features. Inductance test range from 10 μ H to 10 mH & above.

BACK PANEL



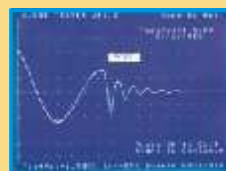
APPLICATION

The Surge Comparison Tester is useful for conducting Surge Test ON.

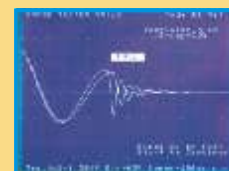
- A.C. Motor windings and Coils
- D.C. traction Motor and field coils.
- All types of transformers.
- Any bobbin wound or air core coil etc.
- Ballasts
- Solenoids

OUR OTHER PRODUCTS:

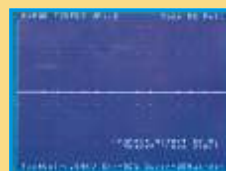
- Digital Winding Analyzer
- Micro Ohm Meter
- Breakdown Tester
- Megohm Meter



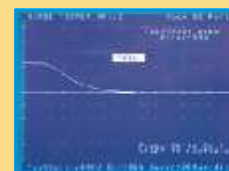
OK



Change in Inductance



Short



Open

To keep pace with the latest technology Sivananda Electronics reserves the right to update it's system. Hence, information in the brochure is likely to change without notice.

SIVANANDA ELECTRONICS

DEEPAK MAHAL, LAM ROAD, DEVLALI-422 401, NASHIK. MAHARASHTRA, INDIA.

Phone: 0253-2491423, 2491504, 249816, Email: mkb@sivanandaelectronics.com Fax: 0253-2492291.

MUMBAI : 208, SAHAR PLAZA COMPLEX, ANDHERI KURLA ROAD, ANDHERI, MUMBAI-400 059.

PHONE: 022-28271046, 66430590 / 91. FAX: 022-28389232 E-mail: sivabom@vsnl.com

NEW DELHI : G-145, KALKAJI, NEW DELHI-110 019. PHONE: 011-26221582, 26434442. E-mail: sivadel@hotwireindia.com

BANGALORE: 44/2, DICKENSON ROAD, BANGALORE-650 042. PHONE: 080-25585673, 25597416. E-mail: sivablr@vsnl.net

HYDERABAD : 102, ART PLAZA, YWCA LANE, NEAR HIRA HALL, BOGGUL KUNDA, ABIDS, HYDERABAD-500 001. PHONE: 040-30629539, E-mail: sivahyd@sify.com

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