

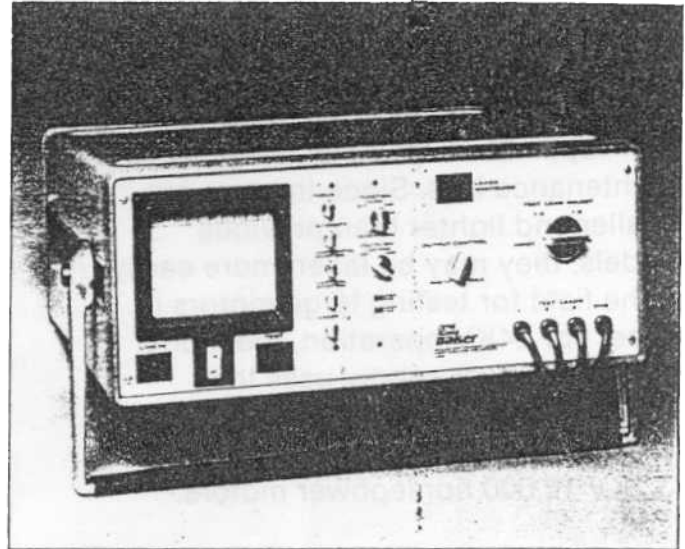


## 6/12/24 KV Surge/Hipot Tester

Bulletin ST112E

### Features:

- Both surge tester and DC Hipot in one instrument
- 3 models available to test AC motors to 10,000 horsepower
- High power to test DC field coils and form wound coils plus D.C. armatures
- Expandable to 24KV
- Versatile for testing all types of motors and generators
- Easy to carry, fold out carrying handle
- Auto over current trip on DC Hipot
- Rugged construction for field or shop use
- Simple controls for ease of operation



MODEL ST 112 E

### Description:

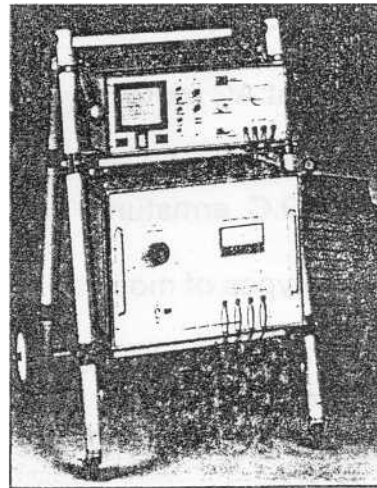
The models ST106E, ST112E and ST124E are a totally new line of Baker Surge and DC Hipot Testers. These new sets take advantage of state of the art design capabilities to provide a powerful but simple to operate instrument. They are lighter in weight than earlier models and include improvements such as an automatic ranging DC Hipot overcurrent trip. They display both DC Hipot output voltage and leakage current on the

scope. These sets may be used to test AC stators, DC armatures and field coils, synchronous motors and generators as well as a wide variety of coils and windings. The new instruments are easy to use, yet have sufficient sensitivity to be utilized for research and development. Further technical information is available upon request.



## Application:

The models ST106E, ST112E and ST124E may be used either in the motor repair shop to test windings before and after repair or in the field as a predictive maintenance tool. Since the sets are smaller and lighter than previous models, they may be taken more easily to the field for testing large motors in place. For 24KV operation, the model ST124PP power supply uses the measuring circuit in the model ST112E. This combination may be used to test 13.2KV 10,000 horsepower motors.



## Predictive Maintenance Tool

The Baker High Voltage Surge Comparison Testers have been widely used as a predictive maintenance tool. Formerly, ground insulation measurements using the meg-o-meter and DC/AC high potential were the only tests performed on motors. A majority of motor failures start with turn-to-turn shorts. Since high voltage surge comparison testing is the only effective method of detecting these problems, surge testing is increasing in popularity. By combining both surge comparison testing and DC high potential testing in one instrument, the Baker instruments provide a complete electrical testing tool. Further information on predictive maintenance testing is available on request.

## Specifications

	ST106E	ST112E	ST124E	ST124A
<b>Surge Test</b>				
Maximum Output Voltage	6KV	12KV	24KV	24KV
Maximum Output Current/Amps	380	800	500	1500
Maximum Pulse Energy/Joules	72	2.8	6	11.6
<b>DC High Potential Test</b>				
Maximum Output Voltage	6KV	12KV	12KV	24KV
Maximum Output Current/Microamps	5000	5000	5000	5000
Overcurrent Trip/Microamps (Auto Ranging)	50/500/5000	50/500/5000	50/500/5000	50/500/5000
<b>Physical</b>				
Weight/Kilograms (Pounds)	19kg (40)	21kg (46)	54kg (120)	54kg (120)
Dimensions (WxHxD) Millimeters	471x191x412	471x191x412	508x406x660	508x406x660
Inches	19x8x16	19x8x16	20x16x26	20x16x26
<b>Electrical Input</b>				
Voltage	120VAC	120VAC 220 VAC Optional	120VAC	120VAC
Power/Watts	117	332	575	575