



The E3640 digital flash tester is a portable mains operated instrument, capable of operating from either 115V or 230V at 50/60Hz. It applies up to 4kV AC and displays output voltage and leakage current on the twin 3½ digit LCD's.

The unit has three modes:

**Breakdown** - fast transients can trigger the trip;

**Burn** - where the trip function is bypassed and the fault current flows continuously to expose the fault;

**Hold** - shows breakdown voltage and leakage current.

## SPECIFICATIONS

### ELECTRICAL

**Power Requirement:** 115/230 Volts  $\pm 15\%$  50/60Hz 40VA

**Fuses:** 230V - 5x20mm 0.25A, HBC, Type F

115V - 5x20mm 0.5A, HBC, Type F

**Output Voltage Range:** 0 - 2.2, 0 - 4.2kV 50/60Hz

**Output Voltage Accuracy:**  $\pm 2\%$  of reading  $\pm 1$  digit

**Leakage Current:** 0 - 5 mA (nominal) 50/60Hz in 10 $\mu$ A steps

**Leakage Current Accuracy:**  $\pm 2\%$  of reading  $\pm 1$  digit

**Trip Level Range:** 0 to 3mA 50/60Hz

**Setting Accuracy:**  $\pm 5\%$  of full range

**Trip Response Leakage:** Will trip for fault duration  $>5\text{mS}$  but not for  $<100\mu\text{S}$

**Breakdown:** Will trip for fast transients of 30 $\mu\text{S}$  and above

### MECHANICAL

**Weight:** 4kg **Dimensions:** 330 x 263 x 144mm

**Bump Test IEC 68-2-29**

**Vibration, Impact and Drop:** BS EN61010 8.3, 8.2, 8.4

### ENVIRONMENTAL

**Operating Temperature:**  $-15^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$

**Storage Temperature:**  $-25^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$

**Operating Humidity:** 80% RH at  $40^{\circ}\text{C}$

**Installation Category II:** BS EN 61010 - Annex J

**Pollution Degree 2:** BS EN 61010 - clause 3.7.3.2

### INDICATORS

**kV ON:** Red lamp shows the high voltage circuit is energised

**FAIL:** A red lamp which indicates the trip has triggered

**Audible Fail:** A buzzer indicates the trip has triggered

### CONTROLS

**Power Switch type:** Double pole ON/OFF rocker type

**Mode Select:** Three position rotary switch selects the breakdown, trip or burn mode of operation

**Trip Level:** Single turn trip level setting potentiometer

**Voltage Select:** Two position rotary switch for 2 or 4kV range.

**Voltage Control:** Single-turn potentiometer for accurate setting of the output voltage

### CONNECTORS

**Power Inlet:** A module which combines a filter with an IEC 320 inlet with an ON/OFF double pole rocker.

**Low/Earth Terminal:** Large yellow/green binding post

**High Voltage Outlet:** Red custom designed deep socket

### LEADS/PROBES

**Earth Lead:** A green heavy duty flexible lead with a 4mm plug and a fixed shrouded crocodile clip at the other.

**High Voltage probes:** A custom moulded pistol shaped probe with a trigger operated retractable "hot" end. A red high voltage lead emerges from the bottom of the hand grip and is terminated with especially designed high voltage safety connector.

**EMC:** To BS EN 50081-1 and BS EN 50082-2

**Safety and Flash Test:** To BS EN 61010-1

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