Surge tester ST 3810L

**Description**
Winding goods like stators, coils or transformers can be examined precisely and comfortably with the surge tester ST 3810L. Thus, winding shorts and insulation faults inside a winding can be recognised even before the fault has an effect on the DUT. This avoids breakdowns of electric motors and any related call-backs.

**Application**
The surge tester ST 3810L was developed for OEM applications in systems. A complete PC software (DAT) and a software interface (DLL) is available.

**Surge test**
- **Voltage**: 100 – 6,000 V
- **Surge capacity**: 100 nF option: 200 nF

**High voltage test DC**
- **Voltage range**: 100 up to 6,000 V / 10 mA

**Insulation measurement DC**
- **Measuring range**: 100 up to 6,000 V / 100 GΩ / kV

**Internal matrix**
- L, N + PE, Guard

**Evaluation process**
- Defective area
- Differential area nF
- Tolerance band

**Computer technology**
- **Sampling rate**: 500 MHz
- **Resolution**: 8 Bit / 2 ns
- **Memory depth**: 256 MByte
- **Number of master curves**: unlimited
- **Recording duration**: 1 µs up to 160 ms

**General data**
- **Error message**: visual and audible
- **PC software**: DAT
- **Software interface**: DLL
- **Dimensions (HxWxD) and weight**: 133 x 483 x 489 mm / approx. 17.5 kg / 5.2 x 17.0 x 19.3 in. / approx. 38.6 lbs.
- **Mains supply**: 115 V, 60 Hz / 230 V, 50 Hz

**Interfaces**
- Computer interfaces
- Ethernet / LAN

**Operation**
- Remote control via separate PC