Winding and coil insulation diagnostics

onsite HIGH VOLTAGE

IT6

Impulse Tester 50V up to 6000 V
Inter turn insulation tester

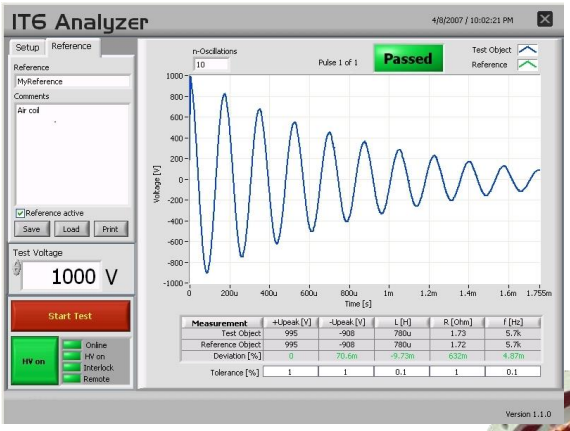
Powerful and simple,

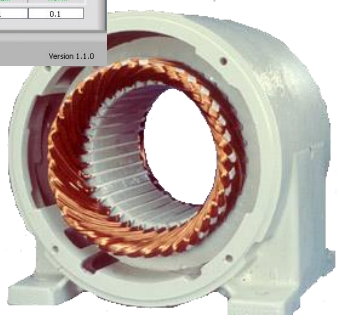
- ✓ Testing of interturn insulation, main insulation of stator and rotor windings
- ✓ The IT6 can also be used to automatically test large quantities of windings in automated production
- ✓ Stand-alone function possible
- ✓ For routine testing of new and repaired coils and windings
- ✓ Type testing in research and development laboratories
- ✓ On site testing during periodic maintenance of machines
- ✓ High energy testing up to 36 Joules

Technical Data IT6

Charging Voltage	50 – 6000 V Precision +/- 3 % Resolution 10 V
Output impulse voltage	50 – 6000 V, continuously adjustable
Polarity	positive
Repetition frequency	0 – 8 Hz
Impulse capacitance	switchable: 0.5, 1 or 2 µF
Max. impulse energy	9, 18, 32 Joule
Output impedance	< 2 Ohm
Max. current	3000 A
Trigger	The trigger can be set for automatic repetition, manual control or extern
Charging voltage indicator	3 Digit Digital Instrument range 0 – 6000 V
Number of test impulses	With the pre-set counter, the number of test impulses is selectable between 1 - 99999
Outputs	- Trigger pulse for oscilloscope (BNC) amplitude +10 V - High Voltage over 5m cable to the divider box - HV Divider output (BNC) for oscilloscope input - HV interlock output (norm. closed contact) - Trigger contact (norm. open) to start the Impulse external (BNC)
HV divider	Capacitive Ratio, 1000:1 divider Accuracy: 3 % Bandwidth: DC – 5 MHz
Operation conditions	Temperature range: 0 – 50 deg C Max. humidity: 95%
Power supply	Singe phase AC 115 or 230 V, +/- 10% 50 or 60 Hz, 350 VA
Net weight	approx. 25 kg (system)
Dimension bench top housing	580 x 600 x 290 mm, W x D x H
Dimension field test housing	580 x 600 x 370 mm, W x D x H

improvements to specifications are subject to change without notice





Applications

- Routine testing in production facilities
- Routine testing in repair shops
- Type testing in research and development laboratories
- On site testing during periodic maintenance
- Testing of single phase or multiphase machines. transformers, motors and generator's operating on direct or alternating current
- And many more

Features

- Designed to test interturn insulation
- Generation of high inter turn voltages even in windings with few turns (low source impedance, 3000A, up to 36 Joules impulse current)
- Broad range of adjustable test voltage (50 V to 6000 V)
- Interface for computer control
- Manual or automated test sequence.
- Selectable repetition frequency
- Easy test result reading on oscilloscope or analyser (optional)

onsite high voltage group
Töpferstrasse 5 CH-6004 Luzern Phone +41 41 500 51 20 Fax +41 41 500 05 51 info@onsitehv.com www.onsitehv.com