



SOLUTIONS

Low voltage Transformer and Choke Test System TTS1200

selfas
ingenious measurements



Low Voltage Transformer and Choke Test System TTS1200

Routine testing of 1-phase and 3-phase Transformers and Chokes



Highlights

This test system solution was designed for routine tests of 1-phase and 3-phase transformers and chokes according to IEC60076 and IEC61558. It is optimized for testing high power transformers or high current chokes with up to 2MVA and rated voltages up to 1000V.

Output data

- Voltage up to 1500V
- Current up to 3000A
- 200kVA Power Supply

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Challenges

For an efficient use in industrial production a test system needs the ability to adapt to test requirements of a broad product range while keeping the testing process easy, efficient and safe.

Here the special requirement is the capability to do power choke tests with up to 3000A, but to keep the system still flexible and usable for small products.

Of course the operator safety is very important, as high power electrical tests are always very dangerous.

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Our Solution

Our inverter power supply solution provides all required test voltages with variable frequency. 14 power ranges are available for optimised adaption to the various test requirements of high power transformer and chokes. The automatic switching of the measuring points and the remote control of the power supply allow complete testing with single connection and increase productivity and safety. This system is fully equipped with a safety control unit, e-stop buttons, safety doors, safety fence and a light curtain for test area according to EN 50191 to provide maximum safety for the operators during every day work.

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Transformer and choke test steps

- No Load
- Short Circuit
- Voltage Ratio and Phase Displacement
- Induced AC Withstand Voltage
- Inductance
- Surge Voltage
- Winding Resistance
- High Pot (AC Withstand Voltage)
- Insulation Resistance
- Protective Earth
- Temperature Sensor

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Technical Specifications

Power Supply	3-phase Inverter, voltage and current regulation, 14 power ranges 200kVA, 15-400Hz, 0-1500V, 0-3000A
Power Measurement	4-channel precision power meter, basic accuracy 0.1%, voltage measurement up to 1500 VAC
Switching Matrix	24 measuring points 6 kV, 1 A, 10 measuring points 6 kV, 30 A
Winding Resistance	4-wire measurement, current 0-20A, basic accuracy 0.1%
High Voltage	0 ... 6kV AC
Insulation Resistance	Test Voltage 500V / 1000V
Protective Earth	Test Current 10-30A
Surge Voltage	300 ... 6000V

Features

- 200kVA Sine Inverter Power Supply
- Measurement Unit with Precision Power Analyzer
- Automatic switching of measurement points
- Complete safety system with
 - Emergency stop buttons
 - Warning lamps
 - Safety doors
 - Light curtain
 - Safety fence



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Please contact us for your individual solution!

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SOLFAS TECHNOLOGIE GMBH

We are specialized in the development and implementation of test systems, power supplies and instrumentation. As an expert in electrical testing and automation, our company offers global innovative and reliable solutions for the industry. Our products are characterized by a precisely matching to individual customer needs hardware and software.