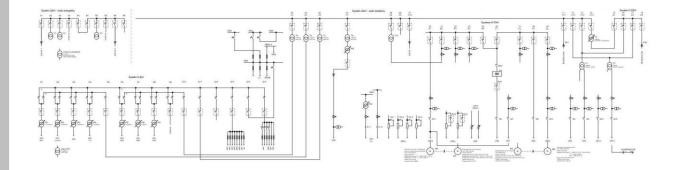


TEST ROOM ELEKTROTECHNIKA, a.s.

The Test Room is designed for performing unit and type tests of power semiconductor applications, tests of transformers and chokes and routine manufacturing tests of rotating machines up to approx. 1 MW.

This test facility is equipped with both AC and DC power supplies with the possibility of voltage regulation and corresponding power loads.



The test room is powered from a 22 kV main power station.



There are 3 substations in the building:

- 22 kV Input
- 0.4 kV Outlets and boosters power supplying
- 6/10 kV For manipulation

Three-phase transformers are powered from the 22 kV substation, the largest one is a 22 kV autotransformer with a 16 MVA tap switch. By combining the connections with other transformers, it is possible to make the following:

phone: +420 226 544 200, fax: +420 226 544 300, info@elektrotechnika.cz, www.elektrotechnika.cz the company is registered in the Commercial Register kept by the Municipal Court in Prague, section B, insert 5743; ID No.: 25727206, VAT No.: CZ25727206 bank connection: Raiffeisenbank, a. s. Hvězdova 1716/2a, 140 78 Prague 4, Czech Republic, BIC: RZBCCZPP: IBAN CZ045500000005030019143



1.1/ AC power supplies

0 to 22 kV / 16 MVA 0 to 35 kV / 4 MVA 0 to 11 kV / 4 MVA 0 to 6 kV / 16 MVA 0 to 2.2 kV / 12 MVA 0 to 0.8 kV / 4 MVA 0 to 27 kV / 1f/ 3 MVA

0 to 10 kV / 500 kVA

Other transformers are used, for example, to supply the 150 to 610 V/1000 A (1 MVA) booster and the 400 V own network.

For current testing, air type transformers of an output voltage of approx. 20 V to 50 V and current up to 20,000 A can be connected to the booster.



1.2/ DC power supplies 0 to 4 kV 1000 A 0 to 1 kV 800 A 0 to 20 V 6000 A



2/ Load:

- 1 x 1.5 MW load resistance Fechral with fan
- 1 x load choke 20 mH, 1200 A, ins. voltage 12 kV
- 1 x load choke 1124 mH, 78 A, ins. voltage 27 kV
- RL load for voltage up to 3 kV DC according to the customer's request

ELEKTROTECHNIKA, a. s., Kolbenova 936/5e, 190 00 Prague 9, Czech Republic

phone: +420 226 544 200, fax: +420 226 544 300, info@elektrotechnika.cz, www.elektrotechnika.cz the company is registered in the Commercial Register kept by the Municipal Court in Prague, section B, insert 5743; ID No.: 25727206, VAT No.: CZ25727206

bank connection: Raiffeisenbank, a. s. Hvězdova 1716/2a, 140 78 Prague 4, Czech Republic, BIC: RZBCCZPP: IBAN CZ045500000005030019143



3/ Loading sets 0.85 MW:

Asynchronous motor with a ring anchor and a resistive starter: Overload: 850 kW Voltage/current: stator Y 6000 V/98 A - 50Hz rotor Y 1070 V/490 A Speed: 991 rpm

DC motor-dynamo Type: 1DN 1446-6k Power: 845 kW Voltage/current: Anchor 750 V DC/1127 A Separate excitation 200V/18.1A to 180 V/16.4 A

Speed: 989 rpm



4/ Power supply set 1 MW: Synchronous AC generator-motor 1800/3000/6000 V, up to 60 Hz DC Motor-dynamo 750 V, 1330 A including power supplies and motor excitation power supplies

5/ Other:

Power supplies for test by applied voltage up to 80 kV AC 50 Hz

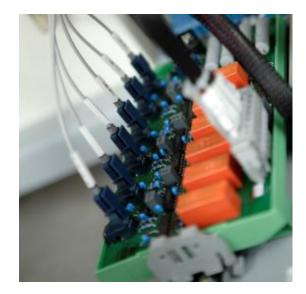
Medium-frequency power supply 170 Hz, 1200 V, 40 A

Measuring transformer of voltage and current POB-35 (10 to 2000 A/5 A; 3750, 7500, 15000 V/150 V)

Base steel plate 2 x 5 m for fastening the tested machines

Fans for cooling the inverters

Cranes with 5 ton and 20 ton load capacity Refrigeration block for technical (raw) water, loss power 300 kW.



ELEKTROTECHNIKA, a. s., Kolbenova 936/5e, 190 00 Prague 9, Czech Republic

phone: +420 226 544 200, fax: +420 226 544 300, info@elektrotechnika.cz, www.elektrotechnika.cz the company is registered in the Commercial Register kept by the Municipal Court in Prague, section B, insert 5743; ID No.: 25727206, VAT No.: CZ25727206

bank connection: Raiffeisenbank, a. s. Hvězdova 1716/2a, 140 78 Prague 4, Czech Republic, BIC: RZBCCZPP: IBAN CZ045500000005030019143