



Test benches for electric motors

Test benches are intended for carrying out acceptance tests of synchronous and asynchronous electrical machines of alternating and direct current.

The equipment installed at the stand allows performing the following types of tests:

- Idle running characteristics / motor idle speed determination
- Checking at rated load and short-term current overload
- Testing the major insulation of electric motors with increased voltage of industrial frequency (50 Hz)
 - Test at high speed
 - Testing of single-phase electric machines
 - Power consumption measurement
 - Power supply voltage measurement
 - Current consumption measurement
 - Short-circuit test
 - Determination of the condition of electric motor bearings
 - Determination of transformation ratio (for electric motors with a phase rotor)
 - Archiving and transferring measured electrical data to any computer
 - The ability to take parameters from the test bench to the USB media

There is a possibility of a remote control from a computer through the RS485 port and an automated measurement process during tests with the output of all protocols to a computer.

Test benches classification:

- AC motor test bench for direct starting (no load)
- AC motor test bench for inverter-based (no load)
- AC motor test bench for inverter-based (under load, short-circuit test) with a load generator of direct current with energy recuperation
 - DC motor test bench (no load)
 - DC motor test bench (under load)
 - AC motor test bench for inverter-based (under load, short-circuit test) using as a generator asynchronous motor with a squirrel cage rotor

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