

Baker Electric Motor Analyzers

The Baker Instruments family of electric motor analyzers provides a comprehensive set of tests which characterize the health of your motors and generators. These testers are valuable in industrial settings for predictive maintenance, and in motor repair/rewind shops for troubleshooting and QA.

Baker AWA-IV Static Motor Analyzer

The Baker AWA-IV automatically performs repeatable, user-programmable tests to thoroughly assess the strength of a motor's insulation and circuit. In fact, it is the only high-voltage test instrument that a user can program to perform a specific set of insulation tests prior to being in the field, and then use as programmed in the field. The AWA-IV is also used to assure quality of motor rebuilds or new production motors before they are placed into service.

Available models: 2kV, 4kV, 6kV, 12kV and 12kV High Output

Test types: resistance, DA, PI, HV step, HiPot, Surge (IEEE and IEC compliant)



Baker DX Static Motor Analyzer

The Baker DX can find early indications of insulation weaknesses and faults in windings, between phases, coil-to-coil and in groundwall insulation. It can identify if contamination is impacting insulation strength, and detect motor circuit problems such as feed cable insulation weakness, motor imbalances, open circuits or high resistance.

Available models: 4kV, 6kV, 6kV High Output, 12kV, 12kV High Output, 15kV and DX15A armature tester

Test types (some tests require optional upgrades): resistance, capacitance, inductance, DA, PI, HV step, HiPot, Surge (IEEE and IEC compliant), partial discharge



Baker PPX Power Packs

For high-voltage motors and generators, and large form-wound coils, the Baker PPX series extends HiPot and surge test voltages up to 40kV. The Power Packs are designed to be used in conjunction with a Baker AWA-IV (6kV or 12kV), or a Baker DX.

Available models: 30kV, 40kV. 30A model includes armature test feature



Key accessories

Baker ZTX low impedance coil accessory, suitable for armature testing



Baker ATF5000 bar-to-bar DC armature test accessory. Kelvin probes and push-to-test buttons make commutator testing easy.



Baker EXP4000 Dynamic Motor Analyzer

The Baker EXP4000 monitors an on-line motor's voltages and currents to separate mechanical and electrical issues that may be present in a motor-machine system. By monitoring many different parameters and using advanced software algorithms, the EXP4000 is designed to pinpoint challenges across the system, including those with the power supply, variable-frequency drive, the motor, and the load placed on the motor.

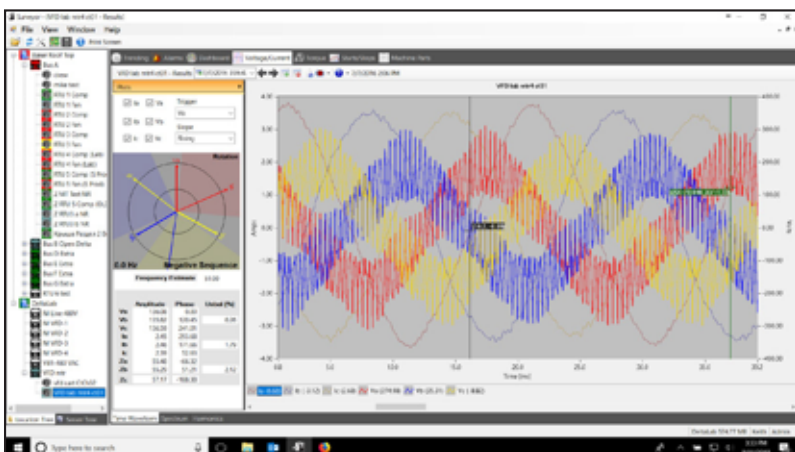
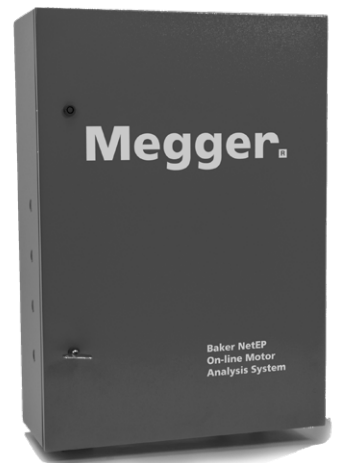
Test domains: Power quality, machine performance, current, spectrum, torque, variable-frequency drives, continuous monitoring, transient analysis (e.g. startup), motor efficiency



The Baker EP1000 Dynamic Motor Link can be installed in motor control cabinets (MCC) to provide a permanent, rapid-hookup port for the EXP4000.

Baker NetEP On-Line Motor Analysis System

The Baker NetEP is a permanently-installed, fully automated machine system monitoring solution. It continuously acquires health and performance data on up to 32 electric motors and the rotating machine systems they operate. With the Baker NetEP, maintenance professionals can safely gather performance data on critical motors around the clock, 365 days a year, from the convenience and safety of a central office. The system helps reduce costly unplanned downtime by providing information that improves maintenance decision making and planning. The dashboard display of the NetEP's associated software indicates motors which are in an alarm condition.



A time waveform plot of a VFD-driven motor, showing voltage and current, with a phasor diagram.

Megger Baker Instruments
4812 McMurry Avenue, Fort Collins, CO 80525, USA
Tel: +1 970-282-1200
baker.sales@megger.com
www.megger.com/baker

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