

Motor testing

In today's business environment, motor management and maintenance efforts are key to reducing manufacturing costs, increasing return on investments, and improving reliability.

How can motor testing help my company?

The MRES Motor Testing Program uses motor current analysis to test the windings in electrical motors. Our equipment injects a low-voltage signal into the windings and evaluates the response to determine motor conditions. This response is evaluated and potential problems can be identified before failure occurs.

What motors should be tested?

All motors vital to the company's operation, including:

- Motors difficult to replace
- Specialty motors
- Overloaded motors
- Operationally cycled motors
- Motors subject to extreme conditions
- Inventoried motors (back-up motors)

How often should I test?

Motors should be tested annually (at a minimum)—more often for those considered critical to the operation, or motors that show obvious or potential concerns.

What tests are performed on the motors?

- Loose connections
- Shorted windings
- Ground faults
- Insulation failures
- Rotor faults
- Air-gap faults
- Phase imbalance
- Resistive loss

Providing solutions

The MRES Motor Testing Report includes:

- Resistance, impedance, inductance, and phase-angle levels and calculations
- Insulation test on windings (pass/fail)
- Precise motor description and visual image
- Estimated time to failure
- Spreadsheet database of in-use and inventoried motors

How do I sign up?

It's easy to sign up for our inspection plan. Email us at energyservices@mrenergy.com, or call us at 1-800-678-4042.