

ABB MOTION SERVICES

ABB Ability™ Condition Assessment for motors and generators



ABB Ability™ Condition Assessment is a service that analyzes the condition of the stator winding insulation in motors and generators up to 5 kV. Potential problems can be detected early, ensuring high uptime.

Streamlined service ensures high uptime

The stator winding insulation is the most uptime critical component in high voltage motors and generators. Knowing its health is vital for effective and reliable maintenance.

ABB Ability™ Condition Assessment is a service whereby an ABB expert performs a series of measurements during a maintenance break. The measured data enables detection of potential problems in the stator winding insulation, long before they become critical and cause extended downtime.

ABB can perform the testing and analysis during a single visit, which can be combined with normal maintenance. Assessment results and recommended actions enable maintenance to be prioritized and optimized to ensure the reliable operation of motors and generators.

Due to the compact size of the analysis equipment measurements can also be taken in applications with limited space, such as those in wind turbines or on board marine vessels.

Benefits

- **High uptime** – early detection of potential problems before they cause costly unplanned downtime
- **Valuable information** on equipment condition enabling informed run/repair/replace decisions
- **Maintenance activities** can be prioritized and optimized
- **Suitable for applications with limited space**
- **Applicable for all motors and generators** regardless of the manufacturer

ABB Ability™ Condition Assessment process



Mapping of the installed base

Review your installed base with a local ABB technician and decide which motors and generators to assess.



On-site measurements

A local ABB technician brings all the equipment needed for the tests and performs the measurements during a normal maintenance break. The data is uploaded to a portal.



Data analysis

An ABB expert analyzes the data using an advanced empirical model that is based on the results of more than 10,000 tests.



ABB expert report

You receive a detailed report with the results of our analysis and recommended actions. You can also access your report via myABB, our 24/7 online customer portal.



Making the right decisions

Up-to-date information on the status of the condition of your motors and generators enables you to make informed decisions about the maintenance and management of your equipment.



Planning maintenance activities

Prioritize and optimize the maintenance plan and secure high reliability for your motors and generators.



Optional service activities

Additional service solutions from ABB provide condition information on other equipment, paving the way for more comprehensive preventive maintenance planning.

For more information, please contact your local ABB representative or visit:

new.abb.com/motors-generators/service

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