



SIEMENS



Industry Services

Motor Management Program



Technology-based services for a greater competitive edge

Minimum downtime and the optimum use of staff and resources are key to sustainable success in industry. Siemens provides the basis for greater productivity, flexibility, and efficiency with technology-based services throughout the lifecycle of an industrial plant – reliably, globally, and around the clock. In-depth technology and product knowledge as well as industry expertise within Siemens' global network of experts ensure a considerable competitive edge.

The challenge:

Maximum reliability with minimum costs

Increased wear, downsizing, and lower maintenance budgets at many production facilities have led to maintenance being performed reactively after faults have occurred. More and more frequently, in-house maintenance teams lack the resources they need for effective and efficient motor care.





Siemens Industry Services works with the customer to create a systematic approach for optimum motor management and maximum manufacturing productivity.

Typical results:

- 30 percent higher motor reliability
- 7 to 15 percent less downtime
- 30 percent fewer motors needed
- 10 to 30 percent lower overall motor maintenance costs

The requirements are obvious:

Maximum reliability

- Improved operating reliability of motors
- Maximum useful life of motor technology investments
- Minimum downtime

Improved return on maintenance expenditure

- Optimum use of resources
- Effective use of available funds
- Higher quality of motor repairs

Reduced need for investment

- Optimized motor stock
- Longer service life
- Improved plant availability

The solution:

Comprehensive maintenance and operating solutions

With the help of professional Motor Management by Siemens Industry Services, motors can attain the level of technical reliability and performance they need to meet the production requirements of today's plants.

The Motor Management Program provides preventive, predictive, and corrective maintenance and operating solutions for electric machines.

Motor Management Program (MMP)

| On-site services | Workshop services | Stock management | Engineering | Information management |
|---------------------------------------|----------------------------------|---|------------------------------------|---|
| 24 hour availability | Overhaul, repair, rewinding | Stock planning and improvement | Process evaluation | Information system selection and implementation |
| Predictive and preventive maintenance | Motor modernization | Operating reliability inspection | Motor condition evaluation | Data capture, evaluation and reporting |
| Repair | Motor replacement and adaptation | Stocking including maintenance of spare parts stock | Advice on drive technology | Remote access |
| | | | Root cause failure analysis (RCFA) | |
| Program management and implementation | | | | |

Siemens Industry Services helps operators increase the reliability of their production facilities:

- Higher reliability of motors
- Minimized downtime
- Increased plant availability
- Lower costs for motor repair
- Longer plant operating life
- Improved maintenance resources
- Effective use of maintenance budget
- Higher repair quality
- Long-term, ongoing motor management
- Higher motor system performance and availability
- Extended strategies for risk reduction and eventuality planning for motors
- Improvement of all production-related performances

The benefit:

Optimum performance for the entire span of operation

As a manufacturer of electrotechnical systems and components, and as an on-site service provider, our objective is to provide the best possible service for motors for their entire operating life.

- Professional services for the entire life of the motor, including professional reporting
- Long-term top service quality including motor supply and operating reliability
- Reduction of operator burden:
 - As a Siemens customer, you can concentrate on your core business
- More efficient investment in services and lower costs for own service infrastructure through the use of the global Siemens network
- Additional services for the entire system including converters, drives, motors, power supply, and ancillary systems

The Motor Management Program in detail:

With the Siemens Motor Management Program, dedicated experts check motor management processes, develop a detailed plan to improve reliability, and implement it so that operators reach their goals.

Analysis phase:

As a first step, the critical motors are identified (including serial number, series, year of manufacture, and photographic documentation of each motor).

The second step consists of a visual inspection of the motors, and initial tests such as vibration tests and thermal imaging as needed.

Proposal phase:

The proposal gives the operator specific recommendations for managing his motor inventory. Siemens also offers a broad spectrum of other services, including preventive and predictive measures configured for the specific operation.

Implementation phase:

Sustainable motor management uses a web-based tool that initiates condition monitoring and generates maintenance plan, as well as running a failure cause analysis.

Web-based tool:

The tool visualizes all captured data on motor operation in detailed depictions, including condition, trends, and overall result of condition monitoring.

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Siemens AG

Industry Sector
Customer Services Division
Lifecycle Services for Large Drives
Vogelweiherstr. 1–15
90441 Nuremberg
Germany

E-mail: grm.industry@siemens.com

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