

Assess the health of your drive – without stopping production

Condition Assessment Service for SINAMICS
PERFECT HARMONY GH180

Introduction

Drive systems are at the heart of your plants and processes. They need to run both safely and reliably – often for decades and under harsh conditions. As a result, they are frequently subject to extreme wear and tear, and these factors increase the risk of unscheduled downtime. A SIEPRO® Technical Service Agreement (TSA) from Siemens can mitigate these risks and provide significant support for maintaining reliable plant operation over the long term.

With our TSA, you will receive comprehensive service and priority support delivered by experts who know your equipment and processes. It is a responsive, cost-effective, and streamlined service bundle that keeps your drives, and business, performing at the highest levels.

Challenge

Preventive Maintenance (PM) service, part of a standard TSA for medium voltage drives, can reliably reduce the maintenance costs associated with a drive's lifecycle and further increase plant availability. Our annual inspection and maintenance of your SINAMICS PERFECT HARMONY GH180 is critical to ensuring its long-term health, reliability, and performance. At the same time, service life is extended and potential

issues are detected earlier, before they can trigger costly failures. PM service is scheduled to coincide with your planned plant outage when drives are de-energized.

Siemens understands that maintaining the operation of your process is your top priority, however, when business realities do not allow you to take your drive out of service for full Preventive Maintenance service, how can you best ensure the performance of your drive? In cases where interrupted operation and planned outages are not a possibility, Siemens offers our optional Condition Assessment service.










Solution

The Condition Assessment service for SINAMICS PERFECT HARMONY GH180 provides a safe and comprehensive technical assessment of your drive's performance while it is energized. This option is available as part of a SIEPRO® Technical Service Agreement, and provides you with the choice of scheduling a full PM service when an outage is planned and alternating with the Condition Assessment service when process demands do not allow down time. With this winning combination, you will maintain transparency of your drive's operating condition and stay ahead of issues before they become problems.

12 - 18%
average cost savings
realized with a
preventive vs. reactive
maintenance program



Build a program that fits your plant's maintenance schedule

	Year 1	Year 2	Year 3
Example #1	Complete Preventive Maintenance 	Condition Assessment 	Complete Preventive Maintenance 
Example #2	Condition Assessment 	Complete Preventive Maintenance 	Condition Assessment 
Example #3	Condition Assessment 	Condition Assessment 	Complete Preventive Maintenance 

With the Condition Assessment service, every element of your drive's operation, which can be safely analyzed while energized, is evaluated:



- **Visual Inspection**

A Siemens technician will inspect the drive environment, enclosure, groundings, control cabinet contents, filters, liquid-cooling system components (when applicable) and the connected application. On-site spare parts, including control boards and power cell assemblies, will also be inspected.



- **Measurement and Recording**

Critical air or liquid-cooling system measurements are taken and readings recorded, along with key drive and motor performance information. Any system discrepancies will be identified and corrective actions or needed enhancements will be shared and documented.



- **Operating Data Analysis**

Drive parameters, configuration, and log files will be uploaded and evaluated by a Siemens factory expert, in preparation for review.



- **Technical Review and Engineering Report**

A review of all Condition Assessment service findings will be held with your operations staff, including discussion of any past or present issues or concerns. A full report of the assessment will be provided, noting observations, conclusions, and recommendations for immediate or future actions. Your Siemens support team will also identify available and recommended updates, upgrades, and refurbishments to maintain and improve your drive's performance and reliability.

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Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

Benefits of adding the Condition Assessment service to your TSA:

- Evaluate your drive systems on site without taking them out of service
- Better planning between Preventive Maintenance service intervals
- Safeguard long-term plant availability
- Avoid unplanned outages
- Greater flexibility in scheduling outages and maintenance
- Reduce plant maintenance costs
- Freedom to concentrate on essential work
- Faster identification of the causes of irregularities

If you are interested in learning more about Condition Assessment service, contact your local Siemens Sales Representative or Siemens Industry Customer Care Center at 1 (800) 333-7421.