

Service product description

DrivePro® Preventive Maintenance service for low voltage Danfoss AC drives

DrivePro® Preventive Maintenance consists of regular inspections and time interval component replacement according to the product-specific maintenance schedule. The schedule is based on an on-site audit of the customer's installation, environment and load profile.

The maintenance plan is designed to each installation to suit specific drive types, drive system demands and environmental challenges. The tailored plan is created based on measured values for environment conditions, current loading and customer application. Installation and environment conditions are recorded at each maintenance inspection for variations. Customers will receive report recommendations after each inspection for further service actions, if required, or changes to the maintenance plan. These changes are based on possible variations to environment conditions, load, line power, process control, aging or customer use to ensure trouble-free operation and long life of the drive. The scheduling can be planned to minimize impact to operational needs and planned downtime.

Audit

Danfoss performs the on-site audit before creating a customized maintenance plan for the customer. The audit checklist evaluates the installation and environment conditions. The audit requires visual inspection, measurements and reporting.

Scheduled inspection actions:

- Danfoss certified audit process
- Quick check:
 - Installation
 - Environment
 - Process profile
- Detailed report
- Tailored maintenance plan

Module 1 – Inspection

This module includes maintenance actions to be performed every year after start-up or at the starting date of the maintenance plan. This module includes cleaning but does not include the costs of any repair work or spare parts replacement. The customer receives a detailed checklist and report with items to inspect, functional tests and measurements.

Scheduled maintenance actions:

- Yearly inspection
- Visual inspection
- Cleaning
- Functional tests
- Measurements
- Detailed report

Module 2 – Service

Module 2 contains all the maintenance actions that Danfoss recommends performing approximately 3-6 years after the start-up. This program includes the replacement of spare parts and scheduled service actions. The labor and spare parts in this module are quoted in separate line items on the offer. The customer receives a checklist and report with detailed items to inspect, functional tests and measurements.

Scheduled maintenance actions:

- Spare parts and repair work based on technical expertise
- Performed every 3-6 years
- Detailed report
- Labor and parts included

Module 3 – Service

All the maintenance actions that Danfoss recommends performing approximately 6-17 years after the start-up are included in module 3. This program includes the replacement of spare parts and scheduled service actions. The labor and spare parts in this module are quoted in separate line items on the offer. The customer receives a checklist and report with items to inspect, functional tests and measurements.

Scheduled maintenance actions:

- Spare parts and repair work based on technical expertise
- Performed every 6-17 years
- Detailed report
- Labor and parts included

The service provides

- Maintenance work by certified DrivePro® field service engineer
- 100% genuine spare parts
- Maintenance according to the product-specific maintenance schedule
- Short repairs*

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The service does not include

- Repair work and spare parts for repair
- Waiting time caused by the customer or his actions
- Performance test of the drive under normal conditions in module 1 only**

Customer responsibilities

- Plan maintenance in advance to reserve maintenance resources and service parts
- Provide all available information about the maintenance history of the equipment
- Site health, safety introduction and provision of work permits
- Provision of electrically qualified personnel when assistance is required
- Ensure safety of the working area (zero energy state, grounding, safety locking)
- Delivery of maintenance materials at the installation location
- Assistance when moving and lifting heavy objects
- Access to maintenance equipment during commissioning
- Performance test availability**

Other terms

- *Short repairs – When a repair can be made with a general tool and if the total repair time is less than 10 minutes. Short repairs include, but are not limited to, tightening screws, replacing bulbs or connecting ground shielding.
- **Performance test of the drive is not included in the standard quotation but may be purchased for an additional cost.
- According to local legislation, Danfoss' General Terms and Conditions of Sale & Terms and Conditions for the Sale of Services.

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