SIEMENS

SIMOTICS Large Drives Motors - Diagnostics and Practical Knowledge (DR-LDM-DG)

Objectives

The failure of a large drive is usually associated with lengthy downtimes and high costs. The proper installation, commissioning and maintenance of motors is a basic requirement for fault-free operation and high availability of the entire plant.
After completing this course, you will understand the basics of commissioning and servicing asynchronous motors. You will be able to make recommendations for preventive maintenance. You will also be able to analyze simple damage profiles and know which corrective actions to take.

Target Group

Regional field service technicians and employees in service control centers for LD motors
Service sales specialists, consultant engineers and promoters for LD motors
Commissioning engineers, servicing and maintenance personnel

Content

General principles of motors relevant to service:
- Installation: Assembly, output elements, direction of rotation, alignment and commissioning
- Vibrations: Enclosure vibration, vibration assessment
- Windings: Insulation system, diagnostic procedures, temperature sensors
- Bearings: Bearing types, bearing seals, lubrication, bearing damage

Features of asynchronous motors relevant to service
- Design and functionality
- Cooling, terminal boxes
- Installation and maintenance

Handling of service jobs, organization, Spares on Web
Analysis of simple damage profiles
Practical exercises on motors with measurements for:
- Alignment of motors with couplings
- Alignment of motors with belt couplings
- Motor vibrations
- Insulation resistance
- Bearings diagnostics

Prerequisites

Basic knowledge of electric motors
Knowledge of the LD motors product portfolio

Note

none

Type

Face-to-face training

Duration

2.5 days

Language

en