MOVIDRIVE® B – 3 Day Operation Start Up and Troubleshooting

Training Description

The MOVIDRIVE B 3 day course allows the participant to gain the necessary knowledge for performing a start-up, commissioning, parameter setting, troubleshooting and programming of the MOVIDRIVE B. This will include in depth analysis of all SEW software packages and keypads.

The aim of this course is to not only acquire the basic knowledge of the MOVIDRIVE B, which will include using the software & keypads but also to understand the purpose of the MOVIDRIVE B in terms of the possibilities of the inverter. A key component of this training is the troubleshooting aspect, which will be a heavy focus on day 2 in order to have a better understanding on potential issues which can arise with day to day operations

An addition to this course compared to the 2 day version is one day dedicated to the IPOS$^{plus®}$ positioning and sequence control system which will look at the necessary steps in creating a user defined program for positioning and/or sequence control.

The software package MOTIONSTUDIO will be used to perform the majority of these tasks.

Target Group
- Electricians, Engineers & Maintenance Staff

Seminar Objectives
- Know the technical data for the MOVIDRIVE B
- Use MOTIONSTUDIO and MT Manager to communicate with MOVIDRIVE® B
- Startup a motor in the VFC and CFC operating modes & Servo modes
- Set the parameters for terminals, setpoints, ramps and messages
- Save data with PC and keypad and upload it to the inverter
- Understand the tasks required for troubleshooting faults for all key components of a drive system – inverter, motor, brakes, encoders, application
- Control the inverter via fieldbus
- Operate available Application Modules for both fieldbus and IO
- Use the integrated IPOS$^{plus®}$ positioning and sequence controller to perform a reference travel and relative and absolute positioning using both compiler and assembler

Contents
- Theoretical properties of the AC motor when operated on the supply system and on the inverter including operation of different motor control properties
- Complete technical data for MOVIDRIVE B
- Wiring and startup of MOVIDRIVE B

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- Commissioning inverters via SEW software packages
- Startup of different operating modes for motor control
- Data backup with PC and keypad
- Key parameter settings
- Using DBG60B keypad
- Extensive fault diagnostics with key drive & application faults, steps to prevent faults and procedures for troubleshooting, analysis and rectification of faults including all key components of the drive system
- Using SCOPE to record data channels
- SEW fieldbus profile with EtherNet/IP, EtherCAT or Profibus
- Using SEW fieldbus diagnostic tools
- Introduction to Application Modules
- Introduction to IPOS$^{plus®}$ positioning and sequence platform
- Understand processes with programming using IPOS$^{plus®}$
- Write programs for positioning functionality in both compiler and assembler with control through IO and fieldbus

Requirements
- Electrical engineering basics or qualification as electrician

Methods
- Educational dialogs, practical exercises

Location
- SEW

Duration
- 3 Days