
Micromaster – Commissioning, diagnostics and service of MICROMASTER 4 / Курс ММ – Привод переменного тока MICROMASTER 4 (ММ)

Short Description

The course is intended for professionals involved in the commissioning, commissioning and maintenance of MICROMASTER 440 AC drives.

Objectives

• The course examines the theoretical foundations of the drive, the hardware of the MICROMASTER 440, commissioning the drive using the built-in control panel and the Drive Monitor / Starter program, setting up the drive regulators and integrating it into automatic control systems.

Target Group

Commissioning engineers, configuring engineers
Service personnel
Maintenance personnel

Content

- Electromechanical properties of AC motors.
- Regulation of coordinates of the AC drive.
- Foundations of the theory of automatic control.
- Frequency controlled AC drive MICROMASTER.
- Purpose, main functions, applications and technical characteristics of the inverter.
- The device of the frequency converter.
- Functional and electrical diagrams, connection of control and power circuits.
- Electromagnetic compatibility and interference protection.
- Principles of construction of the control system of the inverter MICROMASTER.
- Additional options for the MICROMASTER inverter.
- Purpose, main functions, applications and technical characteristics of the inverter.
- The principle of construction, functional and electrical diagrams of the power section of the converter.
- Connection of power circuits of the converter.
- Construction principles and block diagrams of converter control.
- Open and closed structures of speed control, regulation of the AM torque.
- Connection of control and auxiliary circuits of the converter.

Prerequisites

For successful passing of a course the higher technical or secondary vocational education, basic knowledge of electrical equipment, the theory of the electric drive and the theory of automatic control is desirable

Note

Practical exercises are performed using the MICROMASTER 440 training stand with asynchronous motor, FieldPG programmer or PC.

Type

Face-to-face training

Duration

4 days

Language

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