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1.01	11-2005	Configuration	Updated	meis
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1.04	08-2011	Introduction	Hint "not for end customers" added, various minor updates.	fstl
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1 Introduction

1.1 Purpose of the document

This document describes the structure of the MM 280/A (motor control module).

Information

This manual is not addressed to end customers! Necessary safety notes for the end customer have to be taken into the customer manual in the respective national language by the machine builders and system providers.

1.2 Preconditions

This document contains information for persons with the following skills:

Target group	Knowledge and skills pre-requirement
Project engineer	Basic technical training (University of Applied Science/University level, engineering degree or corresponding professional experience). Knowledge in: • working mode of a PLC, • current valid safety regulations, • the application.
Electrician	Specialized training in the electro-technical field (in accordance with industrial training guidelines). Knowledge in: • current valid safety regulations, • wiring guidelines, • circuit diagrams, • system analysis and troubleshooting, • correct installation of electrical connections according to national and international regulations.
Start-up technician	Basic technical training (Vocational high school, engineering degree or corresponding professional experience). Knowledge in: • current valid safety regulations, • working mode of machine or plant, • principal functions of the application, • system analysis and troubleshooting, • setting options at the operating installations.

Target group	Knowledge and skills pre-requirement
Service technician	Basic technical training (Vocational high school, engineering degree or corresponding professional experience). Knowledge in: • working mode of a PLC, • current valid safety regulations, • working mode of machine or plant, • diagnosis possibilities, • systematic error analysis and rectification.

1.3 Intended use

The MM 280/A was developed for control applications in industrial machines. The typical applications areas include injection molding machines, robots, presses, machine tools and similar.

The MM 280/A may only be used for the types of use described in the technical descriptions and in compliance with described technical general conditions. The MM 280/A may only be used in conjunction with recommended/ approved third-party equipment/installations.

The MM 280/A has been developed, manufactured, tested and documented in accordance with the appropriate guidelines and standards. Therefore, the products do not pose any danger to the health of persons or a risk of damage to other property or equipment under normal circumstances, provided that the instructions and safety precautions are properly observed.

1.4 Notes on this document

This manual is an integral part of the product. It is to be retained over the entire life cycle of the product and should be forwarded to any subsequent owners or users of the product.

This documentation must be legible and available to the specified persons and must be read and understood from them.

1.4.1 Contents of the document

- Description of the module
- Connection and wiring
- Configuration
- Operating behavior
- Technical data

1.5 Documentation for further reading

Name	Target group
Provided system manual	• Project engineer • Electrician • Programmer • Commissioning foreman • Service technician

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