

# SIDOOR

## Service Tool

Kompaktbedienanleitung Rev. 05 · 04/2012

Compact User Manual Rev. 05 · 04/2012



## Door Control Systems

Answers for industry.

**SIEMENS**




# SIEMENS

## SIDOOR Service Tool Compact User Manual

### Legal information

#### Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

 <b>DANGER</b>
indicates that death or severe personal injury <b>will</b> result if proper precautions are not taken.
 <b>WARNING</b>
indicates that death or severe personal injury <b>may</b> result if proper precautions are not taken.
 <b>CAUTION</b>
with a safety alert symbol, indicates that minor personal injury can result if proper precautions are not taken.
<b>CAUTION</b>
without a safety alert symbol, indicates that property damage can result if proper precautions are not taken.
<b>NOTICE</b>
indicates that an unintended result or situation can occur if the relevant information is not taken into account.


If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

#### Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

#### Proper use of Siemens products

Note the following:


 <b>WARNING</b>
Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

# 1 Safety notes

## 1.1 General safety instructions

### Please note before using the Service Tool

Please read through these instructions carefully. They contain essential information for the use and safety of the equipment.

 <b>WARNING</b>
<p><b>Risk of injury due to dangerous electrical voltages and moving mechanical parts.</b></p> <p>The Service Tool may be used only by suitably qualified staff. Staff must be thoroughly familiar with all the warnings, notices, and functions of the door controller described in the corresponding operating instructions AT12, AT18 or AT40.</p> <p>In the context of the operating instructions and warning notices, a qualified person is a person who is familiar with assembling, installing, commissioning, and operating the product, and who has the relevant qualifications, such as:</p> <ul style="list-style-type: none"><li>• Training, instruction or authorization to switch on and off electric circuits and devices/systems in compliance with safety engineering standards.</li><li>• Training or instructions in the maintenance and use of appropriate safety equipment in compliance with safety engineering standards.</li><li>• First aid training.</li></ul>

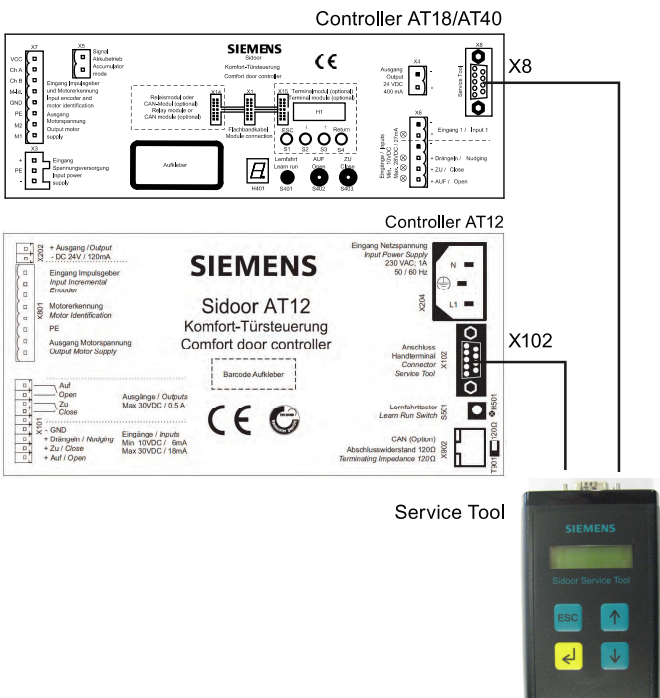
## 2 Description

### 2.1 Application area

The Service Tool may be used to input run commands, to change run parameters and to read the learned parameters, door states, input and output signals and service data.

### 2.2 Connection

#### Connecting the Service Tool to the controller



Controller AT18/AT40

Controller AT12

Service Tool





The Service Tool is connected to the connector of the controller via the corresponding cable:

- Controller AT 18 / AT40: Connector X8
- Controller AT12: Connector X102

You do not need to open the cover of the controller.

### 2.3 Key functions

The keys of the Service Tool have the following functions:

Key	Designation	Function
	Acknowledgement button	Jump to next menu below
	Cancel button	Jump back to menu above
	Menu selection button	Increasing a parameter value
	Menu selection button	Decreasing a parameter value

### 3 Parameter settings

You can change parameters in the following menus:

- Menu "MAIN MENU-QUICK ADJUSTMENT → Parameter setting"
- Menu "MAIN MENU-TOTAL ADJUSTMENT → Profile parameter"








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**Note**

If the Service Tool is in the menu "Quick adjustment" or "Total adjustment", the run commands of the controller are blocked via the command inputs of the terminal strip X6.

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**Operating principle**

Step	Action	Key		Remarks
1	Selecting required parameter			
2	Activating parameter for setting using the acknowledgement button			Parameter value flashing
3	Increasing or decreasing parameter value			
4	Accepting parameter value by renewed pressing of the acknowledgement button			Displayed parameter value no longer flashing after acceptance
5	• Selecting the next parameter (Step 1) or			
	• exiting the menu again			

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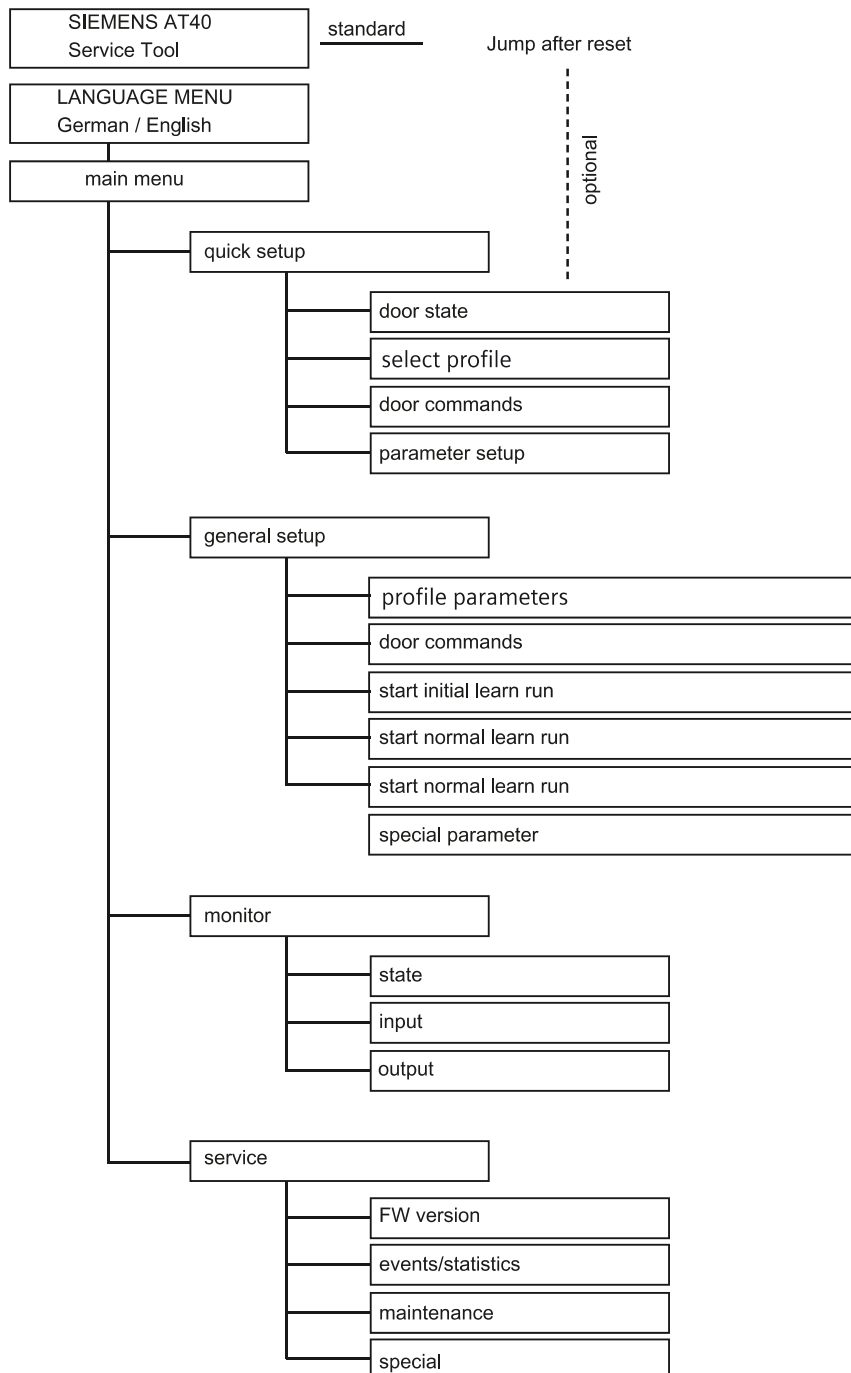
**Note****Parameter changes accepted only if door closed**

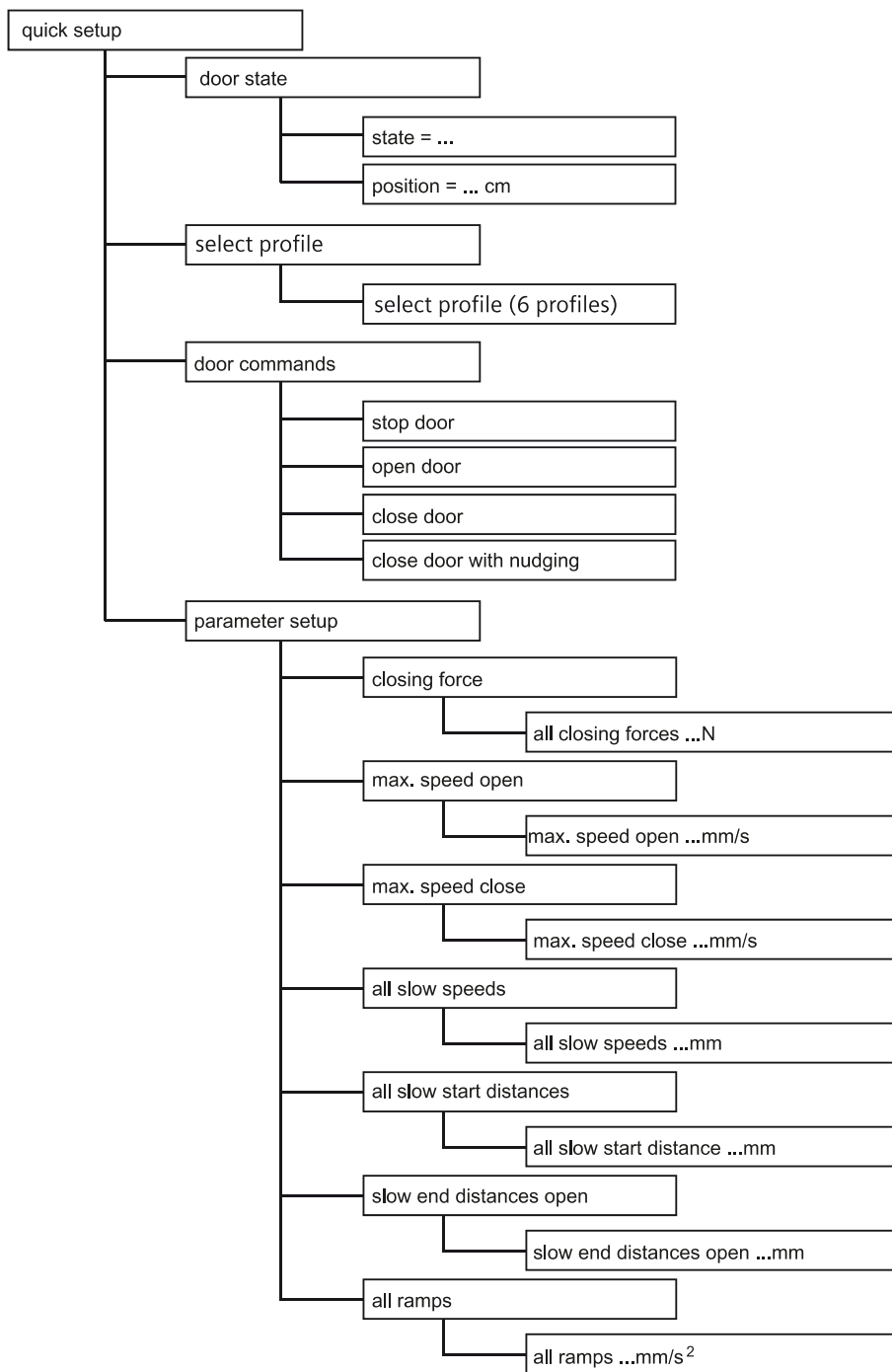
- If changes have to become effective immediately, the elevator door must be closed since the values are accepted only immediately into the parameter memory if the door is closed.
  - If the elevator door is not closed, the display reads "Activation of value only with door closed" As long as the door has not reached the CLOSED position, the original value is displayed and the new value is buffer-stored.
  - With the door open, several parameters may be changed. However, they will be activated together only when the CLOSED position is reached.
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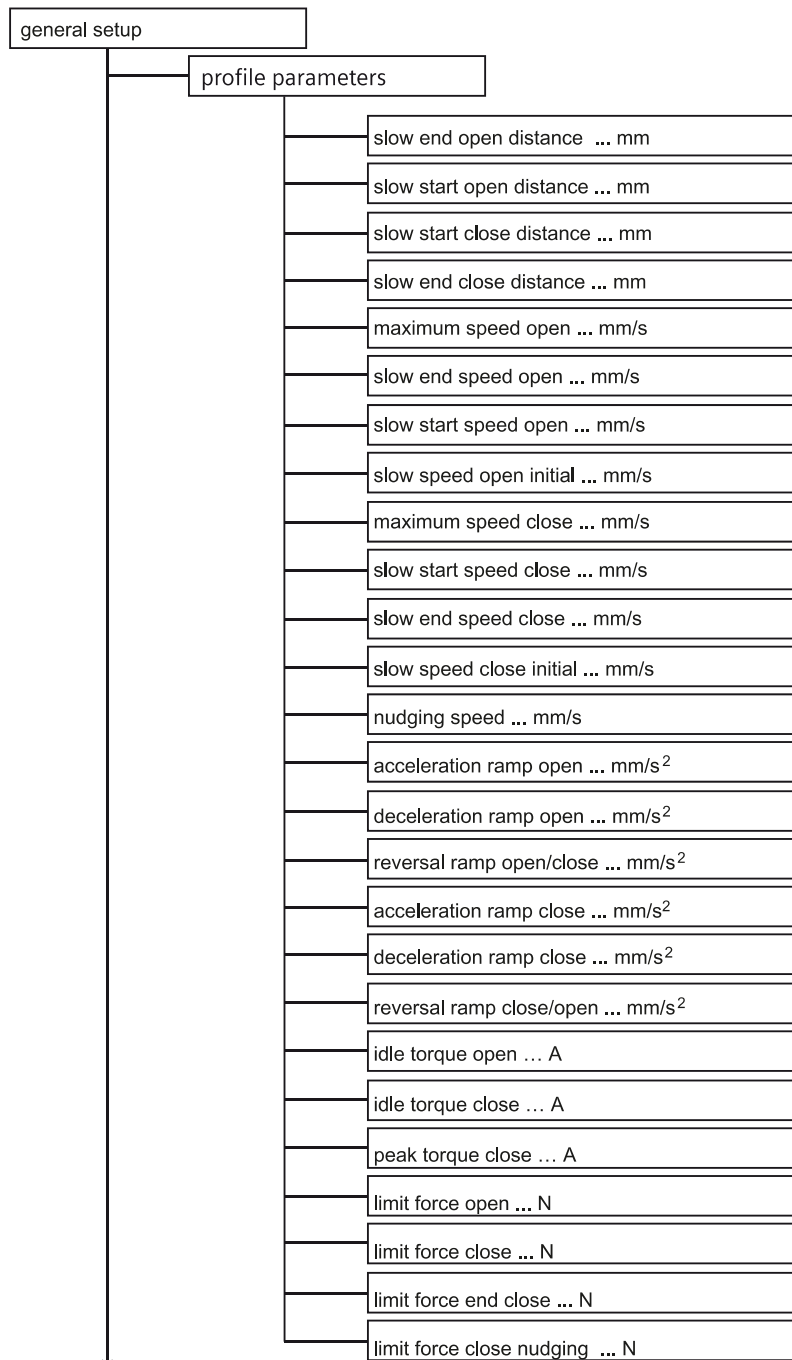
 <b>WARNING</b>
<b>Risk of injury through moving mechanical parts</b> The permitted energies and forces have to be checked by service staff after parameters have been changed. This has to be done on the heaviest door of the entire system (elevator) with landing door and cabin door coupled, and adjusted if they exceed their limit values.

## 4 Menu

The menu points described in the following depend on the firmware version of the controller. The menus described here refer to firmware version V1.25 of the controller AT40.

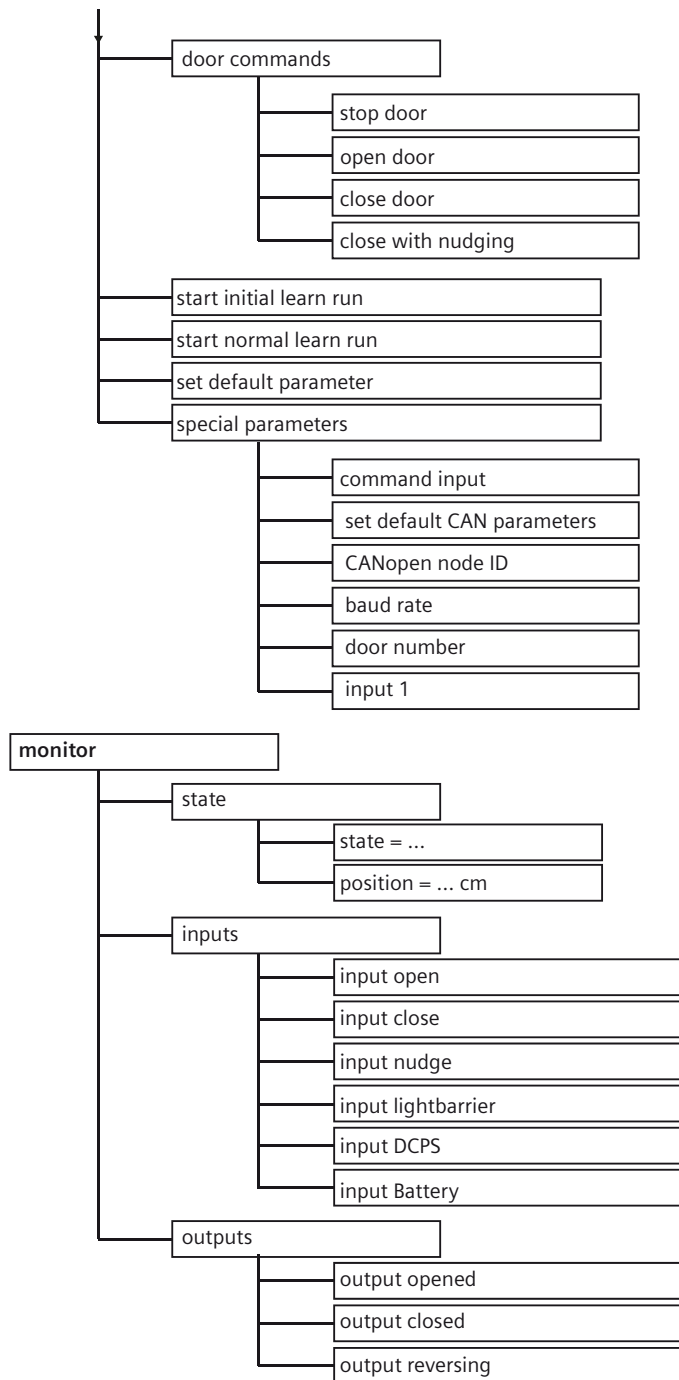


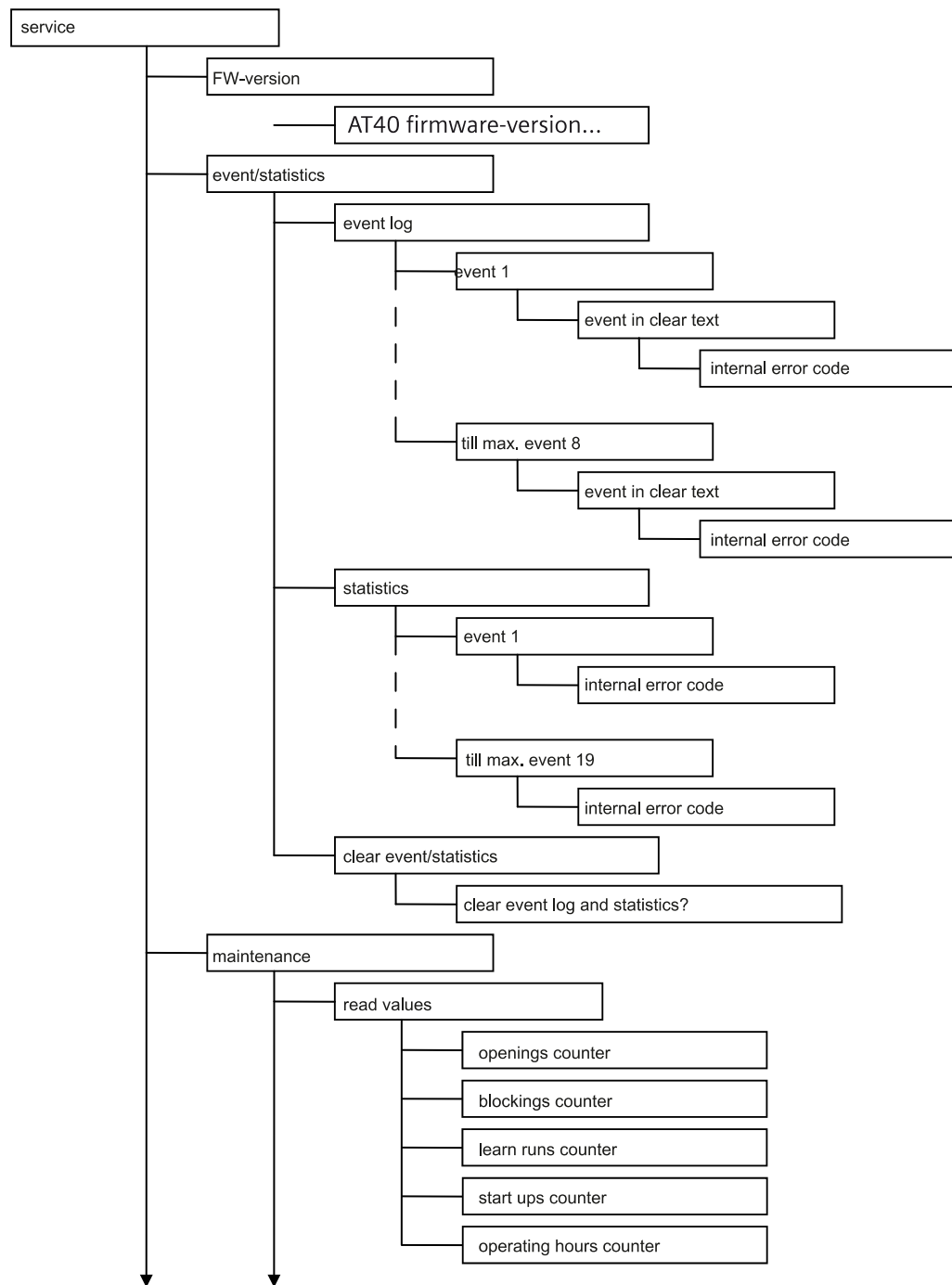


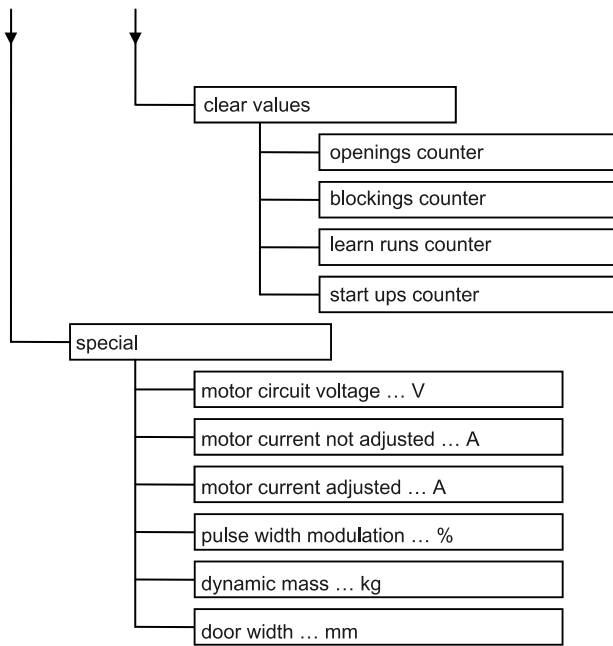


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## A. Appendix

### A.1 Order numbers

<b>Product</b>	<b>Order number</b>
Service Tool	6FB1105-0AT01-6ST0

### A.2 Configuration record

	Set value		
Parameter	Motor M2 24 V / 1.8 A up to 120 kg door wt.	Motor M3 30 V / 4 A up to 180 kg door wt.	Motor M4 30 V / 4 A up to 400 kg door wt.
Creep distance OPEN	mm	mm	mm
Cutter distance OPEN	mm	mm	mm
Creep distance CLOSE	mm	mm	mm
Cutter distance CLOSE	mm	mm	mm
Maximum speed OPEN	mm/s	mm/s	mm/s
Creep speed OPEN	mm/s	mm/s	mm/s
Cutter speed OPEN	mm/s	mm/s	mm/s
Initial speed OPEN	mm/s	mm/s	mm/s
Maximum speed CLOSE	mm/s	mm/s	mm/s
Creep speed CLOSE	mm/s	mm/s	mm/s
Cutter speed CLOSE	mm/s	mm/s	mm/s
Initial speed CLOSE	mm/s	mm/s	mm/s
Nudge speed CLOSE	mm/s	mm/s	mm/s
Acceleration ramp OPEN	mm/s <sup>2</sup>	mm/s <sup>2</sup>	mm/s <sup>2</sup>
Braking ramp OPEN	mm/s <sup>2</sup>	mm/s <sup>2</sup>	mm/s <sup>2</sup>
Reversing ramp OPEN/CLOSE	mm/s <sup>2</sup>	mm/s <sup>2</sup>	mm/s <sup>2</sup>
Acceleration ramp CLOSE	mm/s <sup>2</sup>	mm/s <sup>2</sup>	mm/s <sup>2</sup>
Braking ramp CLOSE	mm/s <sup>2</sup>	mm/s <sup>2</sup>	mm/s <sup>2</sup>
Reversing ramp CLOSE/OPEN	mm/s <sup>2</sup>	mm/s <sup>2</sup>	mm/s <sup>2</sup>
Continuous torque (power) OPEN	A	A	A
Continuous torque (power) CLOSE	A	A	A
Cutter press-on torque	A	A	A
Opening force static	N	N	N
Closing force static	N	N	N
Cutter force static CLOSE	N	N	N
Nudge force static CLOSE	N	N	N

Parameters should always be adjusted during normal operation with the door in the CLOSED position, because the controller then accepts the values immediately.

## A.3 Service & Support

### Technical Support

You can access Technical Assistance as follows:

- Phone: + 49 (0) 911 895 5900
- E-mail (<mailto:technical-assistance@siemens.de>)
- Internet: Online Support Request form: ([www.siemens.de/automation/support-request](http://www.siemens.de/automation/support-request))

### Service & support for industrial automation and drive technologies

You can find various services on the Support homepage (<http://www.siemens.com/automation/service&support>) of IA/DT on the Internet.

There you will find the following information, for example:

- Our newsletter containing up-to-date information on your products.
- Relevant documentation for your application, which you can access via the search function in "Product Support".
- A forum for global information exchange by users and specialists.

### Online catalog and ordering system

The online catalog and the online ordering system can also be found on the Industry Mall Homepage (<http://www.siemens.de/industrial-controls/mall>).

### Sidoor Homepage

You will find general information and news about our door control systems on our Sidoor Homepage (<http://www.siemens.com/sidoor>) in the Internet.

### Contact

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