SIEMENS

SINUMERIK 840D/840Di/810D
SIMODRIVE 611digital

Overview of Functions 1

Lists Machine und Setting Data 2

Machine Data SIMODRIVE 3

Index I

Lists (1st Book)

Parameter Manual

Valid for

Control

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SINUMERIK 810D	7.4
SINUMERIK 810DE (export version)	7.4

Drive

SIMODRIVE 611

11/2006 Edition

SINUMERIK® Documentation

Printing history

Brief details of this edition and previous editions are listed below.

The status of each edition is shown by the code in the "Remarks" column.

Status codes in the "Remarks" column.

A .... New documentation.

B .... Unrevised reprint with new Order No.

C .... Revised edition with new status.

If factual changes have been made on a page since the last edition, this is indicated by a new edition coding in the header on that page.

Edition	Order No.	Remarks
09.95	6FC5297-3AB70-0BP0	**A**
12.95	6FC5297-3AB70-0BP1	**C**
03.96	6FC5297-3AB70-0BP2	**C**
08.97	6FC5297-4AB70-0BP0	**C**
12.97	6FC5297-4AB70-0BP1	**C**
12.98	6FC5297-5AB70-0BP0	**C**
08.99	6FC5297-5AB70-0BP1	**C**
04.00	6FC5297-5AB70-0BP2	**C**
10.00	6FC5297-6AB70-0BP0	**C**
09.01	6FC5297-6AB70-0BP1	**C**
02.02	6FC5297-6AB70-0BP2	**C**
11.02	6FC5297-6AB70-0BP3	**C**
03.04	6FC5297-7AB70-0BP0	**C**
10.04	6FC5297-7AB70-0BP1	**C**
11/2006	6FC5297-7AB70-0BP2	**C**

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We have checked that the contents of this document correspond to the hardware and software described. Nonetheless, differences might exist and therefore we cannot guarantee that they are completely identical. The information contained in this document is, however, reviewed regularly and any necessary changes will be included in the next edition.

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Preface

Structure of the documentation

The SINUMERIK documentation is organized in 3 parts:

- General documentation
- User documentation
- Manufacturer/service documentation

An overview of publications (updated monthly) indicating the language versions available can be found on the Internet at:

http://www.siemens.com/motioncontrol
Select "Support" -> "Technical Documentation" ->"Overview of Publications"

The Internet version of the DOConCD (DOConWEB) is available at:
http://www.automation.siemens.com/doconweb

Information about training courses and FAQs (Frequently Asked Questions) can be found at the following web site:

http://www.siemens.com/motioncontrol under menu option "Support"

Target group

This documentation is intended for project engineers, commissioning engineers, machine operators, service and maintenance personnel.

Benefits

The Parameter Manual enables the intended target group to evaluate error and fault indications and to respond accordingly.

With the help of the Parameter Manual, the target group has an overview of the various diagnostic options and diagnostic tools.

Standard version

This Parameter Manual only describes the functionality of the standard version. Extensions or changes made by the machine tool manufacturer are documented by the machine tool manufacturer.

Other functions not described in this documentation might be executable in the control. This does not, however, represent an obligation to supply such functions with a new control or when servicing.

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Further, for the sake of simplicity, this documentation does not contain all detailed information about all types of the product and cannot cover every conceivable case of installation, operation or maintenance.

Technical Support

If you have any questions, please get in touch with our Hotline:f

	Europe / Africa	Asia / Australia	America
Phone	+49 180 5050 - 222	+86 1064 719 990	+1 423 262 2522
Fax	+49 180 5050 - 223	+86 1064 747 474	+1 423 262 2289
Internet	http://www.siemens.de/automation/support-request		
E-mail	mailto:adsupport@siemens.com		

Note

Country telephone numbers for technical support are provided under the following Internet address:

http://www.siemens.com/automation/service&support

Questions about the documentation

If you have any queries (suggestions, corrections) in relation to this documentation, please fax or e-mail us:

Fax	+49 9131 98 - 63315
E-Mail	mailto:docu.motioncontrol@siemens.com

Fax form: See the reply form at the end of the document.

SINUMERIK Internet address

http://www.siemens.com/sinumerik

EC declaration of conformity

The EC Declaration of Conformity for the EMC Directive can be found/obtained

"on the Internet:

http://support.automation.siemens.com

under product/order no. 15257461

"at the relevant regional office of the Siemens AG division A&D MC.

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Safety Instructions

This Manual contains information which you should carefully observe to ensure your own personal safety and the prevention of material damage. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring to property damage only have no safety alert symbol The warnings appear in decreasing order of risk as given below.



Danger

Indicates an imminently hazardous situation which, if not avoided, **will** result in death or serious injury or in substantial property damage.

t



Warning

Indicates that death or severe personal injury will result if proper precautions are not taken.



Caution

with a warning triangle indicates that minor personal injury can result if proper precautions are not taken.

Caution

without a warning triangle indicates that property damage **can** result if proper precautions are not taken.

Notice

indicates a potential situation which, if not avoided, **may** result in an undesirable event or state.

If several hazards of different degrees occur, the hazard with the highest degree must always be given priority. A warning notice accompanied by a safety alert symbol indicating a risk of bodily injury can also indicate a risk of property damage.

Qualified Personnel

The associated device/system may only be set up and operated using this documentation. Commissioning and operation of a device/system may only be performed by qualified personnel. Qualified persons are defined as persons who are authorized to commission, to ground, and to tag circuits, equipment, and systems in accordance with established safety practices and standards.

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Overview of Functions 1

Note

The following Overview of Functions corresponds to Chapter 2 of the Catalogs NC 60 issued in 2006. Later versions of this Catalog will replace the information stated here.

All references such as "See Part i" refer to the Catalog NC 60 Part i rather than to the chapters of this Parameter Manual.

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1.1 CNC Sinumerik

Overview

SINUMERIK CNC controls

The function overview lists the most important functions of the SINUMERIK 802S base line, SINUMERIK 802C base line, SINUMERIK 802D base line, SINUMERIK 802D, SINUMERIK 810D powerline, SINUMERIK 840Di and SINUMERIK 840D powerline, allowing you quick and selective access to individual functions.

When complete order numbers are given in the list, they must be specified in the order with the appropriate quantities.

The order numbers of the hardware components and other options can be found in the relevant chapters.

Positioning modules

The Overview of functions lists the major functions of the FM 353, FM 354, FM 357-2L/LX/H and SIMODRIVE 611 universal HRS, allowing you quick and selective access to individual functions.

In the case of FM 353/FM 354, the functions for application as an autonomous PLC auxiliary axis are specified.

Export control information
Standard/export control versions

Overview

As a consequence of the prevailing export restrictions applicable to the system software of numerical controls, in relation to particular control functions in accordance with the European/ German Export List (AL item 2D002), SINUMERIK 810D powerline, SINUMERIK 840Di and SINUMERIK 840D powerline are available in two versions.

In the case of SINUMERK 810D powerline, this applies to CCU components with integrated system software, with SINUMERIK 840Di to NCK system software and with SINUMERIK 840D powerline to NCU system software.

The **standard versions** of SINUMERIK 810D powerline, SINUMERIK 840Di and SINUMERIK 840D powerline offer the full scope of control functions, but require **official approval** when exported to countries outside the EU.

The **export versions** SINUMERIK 802S base line, SINUMERIK 802C base line, SINUMERIK 802D base line, SINUMERIK 802D, SINUMERIK 810DE powerline, SINUMERIK 840DiE and SINUMERIK 840DE powerline have restricted functionality in accordance with the export list restrictions and therefore do not require **official approval** as a result of their "Type" in accordance with EU or German law.

Functional restrictions are documented in the table below.

The approval status for the complete CNC system is correspondingly dependent on the hardware or software version used.

Important export information

Export of standard versions of components or systems is subject to a time-consuming official authorization process, so it is recommended that **the export version** is used where applicable.

"Information on List of Items (Auskunft zur Güterliste (AZG))" pertaining to the official export authorization process is available for each export version (e.g. Federal Office of Economics and Export Control (BAFA), Customs). You can obtain a copy of this list from your local Siemens sales office.

When the standard variant is used, it is important to note that official authorization is also required for the export of components subject to export approval within the framework of service provision, the supply of spare parts and for delivery of software updates and upgrades. This is especially relevant in cases where the control is exported after the machine manufacturer has installed it in a machine tool. The lengthy official approval procedure can severely restrict after-sales service.

When an application for an export permit for a system is submitted, we therefore recommend that spare parts supplies for any components requiring approval are included in the application as a matter of course to avoid future delays.

If the control is to be exported as an installed component in a machine tool, we recommend that machine manufacturers include any components requiring approval in the export permit application for the machine. If the machine itself does not require official export approval, but contains components which do, we recommend that an export permit for the replacement supply of such components is applied for in advance.

Spare parts supplies requiring official approval can then be exported quickly and easily by the machine manufacturer himself, or by Siemens if the manufacturer can make the original export permit available to Siemens.

General information:

If any particular components require official re-export approval according to US law, this must be duly filed for.
Information about official approval requirements for supplied components is given in the delivery documentation:
Goods labeled here with "AL not equal to N" are subject to European or German export authorization when they are exported out of the EU. Goods labeled with "ECCN not equal to N" are subject to US re-export authorization. Even if goods are not labeled or labeled with "AL:N" or "ECCN:N", they may still be subject to export authorization due to the final destination and end use of the goods.

If a purchase contract is concluded, it shall be discharged by Siemens with the proviso that performance of the contract shall not be hindered by national or international legal requirements and especially by export control regulations.

Overview

Functional restrictions for export versions

Function	Order No.	802S base line 802C base line 802D base line 802D	810DE power-line	840DiE	840DE power-line

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Linear interpolation	n	–	▦ 1)	▦ 1)	▦ 1)
Helical interpolation 2D+6	n	–	–	–	–
Synchronized actions	n	–	▦ 2)	▦ 2)	▦ 2)
SINUMERIK NCK Runtime OA	**6FC5251-0AA20-0AA0**	–	–	–	–
Multi-axis interpolation (> 4 interpolating axes)	**6FC5251-0AA16-0AA0**	–	–	–	–
Master-value coupling and curve table interpolation	**6FC5251-0AD06-0AA0**	–	▦ 3)	▦ 3)	▦ 3)
Generic coupling CP Basic	**6FC5251-0AG01-0AA0**	–	–	–	▦ 3)
Generic coupling CP Comfort	**6FC5251-0AG02-0AA0**	–	–	–	▦ 3)
Generic coupling CP Expert	**6FC5251-0AG03-0AA0**	–	–	–	▦ 3)
Electronic gear unit	**6FC5251-0AE00-0AA0**	–	–	▦ 3)	▦ 3)
Machining package milling	**6FC5251-0AG00-0AA0**	–	–	–	–
Machining package 5 axes	**6FC5251-0AA10-0AA0**	–	–	–	–
Handling transformation package	**6FC5251-0AD07-0AA0**	–	–	–	–
Transformation TRICEPT, 5 axes: Root	**6FC5251-0AE50-0AA0**	–	–	–	–
Transformation TRICEPT, 5 axes: DMS	**6FC5251-0AE51-0AA0**	–	–	–	–
Transformation TRICEPT, 5 axes: 6th axis	**6FC5251-0AE53-0AA0**	–	–	–	–
Transformation Dynamic Swivel Tripod (DST)	**6FC5251-0AE60-0AA0**	–	–	–	–
Transformation Dynamic Swivel Tripod (DST): 6th axis	**6FC5251-0AE61-0AA0**	–	–	–	–
HEXAPOD transformation 6 axes	**6FC5251-0AF75-0AA0**	–	–	–	–
Electronic transfer	**6FC5250-0AD05-0AA0**	–	–	▦ 3)	▦ 3)
Electronic transfer (CP)	**6FC5251-0AG05-0AA0**	–	–	–	▦ 3)
Synchronized actions stage 2	**6FC5251-0AD05-0AA0**	–	▦ 4)	▦ 4)	▦ 4)
Clearance control, 1D/3D in position control cycle	**6FC5251-0AC05-0AA0**	–	▦ 5)	▦ 5)	▦ 5)
Sag compensation, multi-dimensional	**6FC5251-0AB15-0AA0**	–	▦ 6)	▦ 6)	▦ 6)

n Basic version
▦ Restricted functionality of the export control versions.
– Not possible

The designation "E" in the name of the control indicates that it is the export variant, i. e. the relevant control software is classified as not requiring official approval (AL=N) with the functional restrictions specified in the table according to AL item 2D002.

For further details on "restricted functionality" for the export versions, see the Glossary on the CD-ROM for Catalog NC 60 or go to: *http://www.siemens.com/automation/mall*

1) The number of simultaneously interpolating axes is restricted to four.
2) Only one active synchronous function (SYNFCT) is possible at a time. The number of simultaneously traversing axes is restricted to four (path and positioning axes).
3) The number of simultaneously traversing axes is restricted to four.
4) The number of simultaneously traversing axes is restricted to four (path and positioning axes).
5) 1D distance control only in the position control cycle, and the number of simultaneously interpolating axes is restricted to four.
6) The correctable tolerance band is restricted to 1 mm (0.04 in).

n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n Control structure/configuration

Structure	
• SIMODRIVE 611	See Converter systems
• SINUMERIK PCU	See Operator components

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Drives	See Converter systems
• SIMODRIVE 611 digital	
• SIMODRIVE 611 universal HRS [1]	
• SIMODRIVE 611 universal E HRS (via PROFIBUS)	
• SIMODRIVE POSMO A/SI/CD/CA	
• SIMODRIVE base line	
• FM STEPDRIVE (stepper motors)	
Mode groups (MGs)	
• 1 MG	
• Maximum configuration	
NCU 561.5/571.5	
NCU 572.5/NCU 573.5	
• Each additional MG	**6FC5251-0AD00-0AA0**
Machining channels	
• Maximum configuration	
NCU 561.5/571.5	
NCU 572.5/NCU 573.5	
• Each additional machining channel	**6FC5251-0AA07-0AA0**
Additional axis/spindle + channel	
NCU 561.5	**6FC5251-0AD08-0AA0**
NCU 571.5/572.5/573.5	
CNC main memory (buffered) for programs and data in MB (SINUMERIK 810D/840D: max. 0.3 MB allocated to Siemens technological cycles and an additional 0.25 MB (in total) is allocated to Siemens measuring cycles)	
Expansion of CNC main memory by 1 MB	**6FC5251-0AD02-0AA0**
CNC main memory, maximum configuration	

1) Activation via analog or PROFIBUS interface.
2) For positioning tasks using the PLC.
3) In excess of ±10 V, not PROFIBUS.
4) With system software Plus (precondition: PCU with 1.2 GHz).
5) With system software Basic and Universal: 2.
6) With NCU system software 2/6/12 axes: max. 2 mode groups/2 channels.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline												
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
–	–	–	–	n	n	–	–	n	n						
n	n	n	n	–	–	n	n	–	–						
–	–	–	–	n	n	–	–	n	n						
–	n	–	–	v 2)	v 2)	n	n	v 2)	v 2)						
–	n 3)	n	n	v 2)	v 2)	n	n	v 2)	v 2)						
–	–	–	–	v 2)	v 2)	n	n	v 2)	v 2)						
–	n	–	–	–	–	–	–	–	–						
n	–	–	–	–	–	–	–	–	–						
n	n	n	n	n	n	n	n	n	n						
1	1	1	1	2	2	6 4) 5)	6 4) 5)			10	10	1	1	1	10
								2	2						
								10 6)	10 6)						
–	–	–	–	v	v	v	v	v	v	–	–	–	–	–	
n 1	n 1	n 1	n 1	n 1	n 1	n 1	n 1	n 1	n 1						
1	1	1	1	2	2	6 4) 5)	6 4) 5)			10	10	1	1	1	10
								2	2						
								10 6)	10 6)						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	–	–	–	–								
								v	–						
								–	–						
n 0.25	n 0.25	n 0.25	n 0.25	n 0.5	n 0.5	n 1	n 1	n 3	n 3						
–	–	–	–	v	v	v	v	v	v						
0.25	0.25	0.25	0.25	2.5	2.5	5	5	6	6						

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n Control structure/configuration (continued)

Axes/spindles or positioning axes/auxiliary spindles	
• Maximum configuration of axes	
NCU 561.5	
NCU 571.5	
NCU 572.5/573.5	
• Maximum configuration of spindles	
NCU 561.5	
NCU 571.5	
NCU 572.5/573.5	
• Maximum configuration of axes and spindles	
NCU 561.5	
NCU 571.5	
NCU 572.5/573.5	
• Configuration per channel axes incl. spindles	
NCU 561.5	
NCU 571.5	
NCU 572.5/573.5	
Each additional interpolation axis/spindle [1]	**6FC5251-0AA03-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Each additional positioning axis (axis-specific feed) or auxiliary spindle (spindle-specific speed) [1]	**6FC5251-0AA04-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Enabling of internal drive control of 6th axis for positioning tasks (contains additional positioning axis or auxiliary spindle)	**6FC5451-0AF01-0AA0**
Enabling of internal drive control of 6th axis for interpolation tasks (contains additional interpolation axis/spindle)	**6FC5451-0AF02-0AA0**
Additionally as a package: 2nd machining channel and maximum memory configuration	**6FC5451-0AF03-0AA0**
Additionally as a package: 4 machining channels and 13 axes	**6FC5251-0AD01-0AA0**
NCU 561.5/571.5	
NCU 572.5/573.5	
Connection of FM 354 as PLC positioning axis	See Basic components
Connection of FM 353 as PLC positioning axis	See Basic components

1) Option: If number of axes + spindles > 5.
2) With system software Plus (precondition: PCU with 1.2 GHz).
3) With system software Basic: 6.
With system software Universal: 10.
4) Display of max. 5 axes + 1 spindle.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline												
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
n 4	n 4	n 3	n 5	n 5	n 5	n 5	n 5	n 5	n 5						
3	3	2	4	6	6	18 [2) 3)]	18 [2) 3)]			31	31	12	2	12	31
								2	2						
								6	6						
								31	31						
1	1	1	1+1	2	2	18 [2) 3)]	18 [2) 3)]			31	31	1	1+C	3+2C	31
								2	2						
								6	6						
								31	31						
4	4	3	5	6	6	18 [2) 3)]	18 [2) 3)]			31	31	12 [4)]	4	12 [4)]	31
								2	2						
								6	6						
								31	31						
4 1	4 1	3 1	5 1 (1+1)	6 2	6 2	12 [2) 3)] 12 [2) 3)]	12 [2) 3)] 12 [2) 3)]			12 12	12 12	12 1	4 1	12 3	12 12
								2	2						
								6	6						
								12	12						
–	–	–	–	v	v	v	v								
								–	–						
								v	v						
–	–	–	–	v	v	v	v								
								–	–						
								v	v						
–	–	–	–	v	v	–	–	–	–						
–	–	–	–	v	v	–	–	–	–						
–	–	–	–	v	v	–	–	–	–						
–	–	–	–	–	–	v [2)]	v [2)]								
								–	–						
								v	v						
–	–	–	–	n	n	–	–	n	n						
–	–	–	–	n	n	–	–	n	n						

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n Measuring systems that can be connected

Max. number	
NCU 561.5	
NCU 571.5	
NCU 572.5/573.5	
Incremental rotary measuring system with RS 422 (TTL)	
Linear incremental encoder with current signals	
• Via external EXE	
• Via SIMODRIVE 611 digital closed-loop control module	
Linear incremental encoder with sin/cos 1 V_{pp}	
• On-board	
• Via external EXE	
• Via SIMODRIVE 611 digital closed-loop control module	
• Via SIMODRIVE 611 universal HRS incremental shaft encoder output	
• Via SIMODRIVE 611 universal HRS (linear axis)	
Linear incremental encoder with distance-coded reference marks	
• On-board	
• Via SIMODRIVE 611 digital closed-loop control module	
• Via SIMODRIVE 611 universal HRS closed-loop control module	
Rotary measuring systems with distance-coded reference marks	
• On-board	
• Via SIMODRIVE 611 digital closed-loop control module	
• Via SIMODRIVE 611 universal HRS closed-loop control module	
Absolute value encoder connection with SSI interface	
Absolute value encoder connection with EnDat linear/rotary	
• On-board	
• Via SIMODRIVE 611 digital closed-loop control module	
• Via SIMODRIVE 611 universal HRS closed-loop control module	
Absolute value/incremental encoder installed in 1FT6/1FK	
• On-board	
• Via SIMODRIVE 611 digital closed-loop control module	
• Via SIMODRIVE 611 universal HRS closed-loop control module	

1) For spindle only.
2) SINUMERIK 810D measuring channels and via SIMODRIVE 611 digital closed-loop control module.
3) Two measuring systems per axis.
4) Second measuring system for one axis via 2nd axis SIMODRIVE 611 universal HRS closed-loop control module or ADI 4.
5) For analog axes via ADI 4.
6) For positioning tasks.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline												
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
1	4	3	5	12 [2]	12 [2]	36 [3] [4]	36 [3] [4]								
								4 [3]	4 [3]						
								12 [3]	12 [3]						
								62 [3]	62 [3]						
n [1]	n	n [1]	n [1]	–	–	n [5]	n [5]	–	–						
–	n	n [7]	n [7]	–	–	–	–	–	–						
–	–	–	–	n	n	–	–	n	n						
–	–	–	–	n	n	–	–	–	–						
–	n	n [7]	n [7]	–	–	–	–	–	–						
–	–	–	–	n	n	–	–	n	n						
–	n	–	–	–	–	–	–	–	–						
–	–	n	n	v [6]	v [6]	n	n	v [6]	v [6]						
–	–	–	–	n	n	–	–	–	–						
–	–	–	–	n	n	–	–	n	n						
–	–	–	–	v [6]	v [6]	n	n	v [6]	v [6]						
–	–	–	–	n	n	–	–	–	–						
–	–	–	–	n	n	–	–	n	n						
–	–	–	–	v [9]	v [9]	–	–	v [9]	v [9]						
–	–	–	–	–	–	n [5]	n [5]	n	n						
–	–	–	–	n	n	–	–	–	–						
–	–	–	–	n	n	–	–	n	n						
–	–	n [10]	n [10]	v [6]	v [6]	n [8]	n [8]	v [6]	v [6]						
–	–	–	–	n	n	–	–	–	–						
–	–	–	–	n	n	–	–	n	n						
–	–	n [10]	n [10]	v [6]	v [6]	n	n	v [6]	v [6]						

7) Via ADI 4.
8) Second measuring system for one axis via 2nd axis SIMODRIVE 611 universal HRS closed-loop control module.
9) Not as motor measuring system, only for spindles or rotary axes for direct position sensing.
10) Via SIMODRIVE 611 universal E HRS closed-loop control module.

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n Measuring systems that can be connected (continued)

Incremental encoder with sin/cos 1 V_{pp}	
• On-board	
• Via SIMODRIVE 611 digital closed-loop control module	
• Via SIMODRIVE 611 universal HRS closed-loop control module	
Resolver installed in 1FT6/1FK	
• Via SIMODRIVE 611 universal HRS closed-loop control module	
• Via SIMODRIVE base line (only 1FK7 with 2-pole resolver)	

n CNC functionality: Program functions

Dynamic preprocessing memory (FIFO)	
Look ahead	
Program preprocessing	**6FC5251-0AC02-0AA0**
Axis/spindle replacement	
Geometry axes, switchable online in the CNC program	
Frame concept	
Inclined-surface machining with frames	

n CNC functionality: Axis functions

Feedrate override of 0 ... 200%	
Feedrate override, axis-specific of 0 ... 200%	
Traversing range ±9 decades	
Rotary axis, turning endlessly	
Measuring systems 1 and 2, selectable	
Velocity, max. 300 m/s	
Acceleration with jerk limitation	
Programmable acceleration	
Feedrate interpolation	
Separate path feed for corners and chamfers	
Travel to fixed stop	**6FC5255-0AB02-0AA0**
Travel to fixed stop (without Force Control)	**6FC5655-0AA01-0AA0**
Follow-up mode	
Analog axis	
Setpoint exchange	**6FC5251-0AE76-0AA0**
Tangential control	**6FC5251-0AB11-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Path switch signals/cam controller	**6FC5251-0AB07-0AA0**

1) For positioning tasks.
2) Number of traversing blocks cannot be parameterized.
3) Via SIMODRIVE 611 universal E HRS closed-loop control module.
4) Configuring with closed-loop control module HLA/ANA.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Ad-van-ced	HMI-Em-bed-ded	Shop Mill	Manual Turn	Sho p Turn	HT 6
–	–	–	–	n	n	–	–	–	–						
–	–	–	–	n	n	–	–	n	n						
–	n	n 3)	n 3)	v 1)	v 1)	n	n	v 1)	v 1)						
–	n	–	–	v 1)	v 1)	n	n	v 1)	v 1)						
–	n	–	–	–	–	–	–	–	–						
n	n	n	n	n	n	n	n	n	n						
n 2)	n 2)	n 2)	n 2)	n	n	n	n	n	n						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
–	–	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
120	120	n	n	n	n	n	n	n	n						
–	–	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
12	n	n	n	n	n	n	n	n	n						
–	–	–	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	v	v	v	v	v	v						
–	–	–	v	–	–	–	–	–	–						
–	n	n	n	n	n	n	n	n	n						
–	–	–	–	–	–	–	–	n 4)	n 4)						
–	–	–	–	–	–	–	–	v	v						
–	–	–	–	v	v	v	v								
								–	–						
								v	v						
–	–	–	–	v	v	v	v	v	v						

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n CNC functionality: Axis functions (continued)

Link axis [1]	**6FC5251-0AD10-0AA0**
NCU 561.5/571.5/572.5	
NCU 573.5	
Axis container	**6FC5251-0AE01-0AA0**
NCU 561.5/571.5/572.5	
NCU 573.5	
Setpoint linkage for multiple NCUs [1]	**6FC5251-0AF02-0AA0**
NCU 561.5/571.5/572.5	
NCU 573.5	
Fast interpolation link [1]	**6FC5251-0AF03-0AA0**
NCU 561.5/571.5/572.5	
NCU 573.5	
Advanced Position Control APC	**6FC5251-0AF04-0AA0**

n CNC functionality: Spindle functions

Analog spindle speed	
Digital spindle speed	
Spindle speed, max. programmable value range: REAL ± 3.4028 ex 38 (display: ± 999 999 999.9999)	
Spindle override of 0 ... 200%	
5 gear stages	
Automatic gear stage selection	
Oriented spindle stop	
Spindle speed limitation (min. and max.)	
Constant cutting rate	
Spindle control via PLC (positioning, oscillation)	
Changeover to axis mode	
Axis synchronization on-the-fly	
Thread run-in and run-out programmable	
Thread cutting with constant or variable pitch	
NCU 561.5	
NCU 571.5/572.5/573.5	
Tapping with compensating chuck/rigid tapping	

1) Precondition: Link module.
2) Value range: 999 999,999.
3) Only SPOS and basic functions.
4) Via ADI 4.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline												
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Ad-van-ced	HMI-Em-bed-ded	Shop Mill	Manual Turn	Sho p Turn	HT 6
–	–	–	–	–	–	–	–								
								–	–						
								v	v						
–	–	–	–	–	–	v	v								
								–	–						
								v	v						
–	–	–	–	–	–	–	–								
								–	–						
								v	v						
–	–	–	–	–	–	–	–								
								–	–						
								v	v						
–	–	–	–	–	–	–	–	v	v						
n	n	n	n	–	–	n 4)	n 4)	–	–						
–	–	n	n	n	n	n	n	n	n						
n 2)	n 2)	n	n	n	n	n	n	n	n						
120	120	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
n 3)	n 3)	n 3)	n 3)	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n								
								–	–						
								n	n						
n	n	n	n	n	n	n	n	n	n						

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n CNC functionality: Interpolations

Universal interpolator NURBS (non-uniform rational B-splines)	
Continuous-path mode with programmable rounding clearance	
Linear interpolation axes	
• Maximum	
NCU 561.5	
NCU 571.5/572.5/573.5	
Multi-axis interpolation (> 4 interpolating axes)	**6FC5251-0AA16-0AA0**
Circle via center point and end point	
NCU 561.5	
NCU 571.5/572.5/573.5	
Circle via interpolation point	
NCU 561.5	
NCU 571.5/572.5/573.5	
Helical interpolation	
NCU 561.5	
NCU 571.5/572.5/573.5	
Spline interpolation (A, B and C splines/compressor) for 3-axis machining	**6FC5251-0AF14-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Spline interpolation (A, B and C splines/compressor) for 5-axis machining	**6FC5251-0AA14-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Polynomial interpolation	**6FC5251-0AA15-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Involute interpolation	**6FC5251-0AF01-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Continue machining at the contour (retrace support)	**6FC5251-0AE72-0AA0**
Advanced Processing 1	**6FC5251-0AF10-0AA0**
Advanced Processing 2	**6FC5251-0AF11-0AA0**

n CNC functionality: Couplings

Trailing axes (TRAIL)	
Synchronous spindle/multi-edge turning (COUP) [5]	**6FC5255-0AB01-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	

1) With system software Plus (precondition: PCU with 1.2 GHz).
With system software Basic: 6
With system software Universal: 10.

2) Only tapping: Axis + spindle.
3) Only with system software Universal and Plus.
4) Only with system software Plus.
5) Not simultaneously with generic couplings (CP).

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
n 3	n 3	n 2	n 4	n 4	n 4	n 4	n 4	n 4	n 4						
3	3	2	4	4	6	4	12 [1]								
								2 [2]	2 [2]						
								4	12						
–	–	–	–	–	v	–	v	–	v						
n	n	n	n	n	n	n	n								
								–	–						
								n	n						
n	n	n	n	n	n	n	n								
								–	–						
								n	n						
2D+1	2D+1	–	2D+2	2D+2	2D+2	2D+2	2D+6								
								–	–						
								2D+2	2D+6						
–	–	–	–	v	v	v	v								
								–	–						
								v	v						
–	–	–	–	v	v	v	v								
								–	–						
								v	v						
–	–	–	–	v	v	v	v								
								–	–						
								v	v						
–	–	–	–	v	v	v	v								
								–	–						
								v	v						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	–	–	v [3]	v [3]	–	–						
–	–	–	–	–	–	v [4]	v [4]	–	–						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	v	v	v	v								
								–	–						
								v	v						

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n CNC functionality: Couplings (continued)

Axial coupling in the machine coordinate system (MCS coupling) [3]	**6FC5251-0AD11-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Master value coupling and curve table interpolation (LEAD) [3]	**6FC5251-0AD06-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Electronic gear unit (EG) [3]	**6FC5251-0AE00-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Pair of synchronized axes (gantry axes) Max. number	**6FC5255-0AB00-0AA0**
NCU 561.5	
NCU 571.5	
NCU 572.5/573.5	
Master-slave for drives	**6FC5251-0AC07-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Generic couplings (CP) • CP Standard 4 axis pairs in simultaneous coupled motion	
• CP Basic: 4 axis pairs in simultaneous coupled motion and 1x synchronous spindle/multi-edge turning or master value coupling/curve table interpolation or axial coupling in machine coordinate system	**6FC5251-0AG01-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
• CP Comfort: 4 axis pairs in simultaneous coupled motion and 4x synchronous spindle/multi-edge turning and/or master value coupling/curve table interpolation and/or axial coupling in machine coordinate system, 1x electronic gear unit for 3 leading axes (without curve tables/cascading)	**6FC5251-0AG02-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
• CP Expert: 8 axis pairs in simultaneous coupled motion and 8x synchronous spindle/multi-edge turning and/or master value coupling/curve table interpolation and/or axial coupling in machine coordinate system, 8x electronic gear unit for 3 leading axes (without curve tables/cascading), 5x electronic gear unit for 5 leading axes (with curve tables/cascading)	**6FC5251-0AG03-0AA0**
NCU 561.5/571.5	
NCU 572.5/573.5	

1) With restricted functionality, see export control versions.
2) Extended from 3 to 8 in software version 7.2 and higher of the NCU system software.
3) Not simultaneously with generic couplings (CP).

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline												
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
–	–	–	–	–	–	–	v								
								–	–						
								–	v						
–	–	–	–	v 1)	v	v 1)	v								
								–	–						
								v 1)	v						
–	–	–	–	–	–	v	v								
								–	–						
								v	v						
–	–	–	–	v 1	v 1	v 3	v 3								
								–	–						
								v 3	v 3						
								v 8 2)	v 8 2)						
–	–	–	–	v	v	–	–								
								–	–						
								v	v						
–	–	–	–	n	n	–	–	n	n						
–	–	–	–	–	–	–	–								
								–	–						
								v 1)	v						
–	–	–	–	–	–	–	–								
								–	–						
								v 1)	v						
–	–	–	–	–	–	–	–								
								–	–						
								v 1)	v						

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n Grundausführung v Option x Funktion abhängig von Bedien-Software X Voraussetzung: Bedien-Software HMI-Advanced – nicht möglich	Bestell-Nr.
n CNC functionality: Transformations	
Cartesian point-to-point (PTP) travel	
NCU 561.5	
NCU 571.5/572.5/573.5	
TRANSMIT/peripheral surface transformation	**6FC5251-0AB01-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
TRANSMIT/peripheral surface transformation	**6FC5651-0AA02-0AA0**
Inclined axis	**6FC5251-0AB06-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Concatenated transformations (inclined axis TRAANG after TRAORI/cardan millhead/TRANSMIT/TRACYL)	
NCU 561.5	
NCU 571.5/572.5/573.5	
Machining package milling Contains the options: Machining package five axes, multi-axis interpolation, spline interpolation for 5-axis machining, 3D tool radius compensation	**6FC5251-0AG00-0AA0**
Machining package 5 axes contains the multi-axis interpolation option	**6FC5251-0AA10-0AA0**
Handling transformation package	**6FC5251-0AD07-0AA0**
Generic transformation	
NCU 561.5	
NCU 571.5/572.5/573.5	
Transformation for pantograph kinematics, 2 axes	**6FC5251-0AE45-0AA0**
3-axis PARACOP transformation for parallel kinematics (1st channel)	**6FC5251-0AE31-0AA0**
Transformation TRICEPT 5 axes	
• Root	**6FC5251-0AE50-0AA0**
• DMS	**6FC5251-0AE51-0AA0**
• 6th axis	**6FC5251-0AE53-0AA0**
HEXAPOD transformation 6 axes	**6FC5251-0AF75-0AA0**
Transformation Dynamic Swivel Tripod (DST)	**6FC5251-0AE60-0AA0**
• 6th axis	**6FC5251-0AE61-0AA0**
n CNC functionality: Measuring	
Measuring stage 1 2 probes (switching) with/without deletion of distance-to-go	See HMI software
Measuring stage 2 (logging of measurement results, measurement functions from synchronized actions, cyclic measurement)	**6FC5250-0AD00-0AA0** See HMI software

1) With 3-axis and 4-axis transformation.
2) 1 sensor.
3) Precondition: MCI board extension.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline												
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
–	–	–	–	n	n	n	n								
								–	–						
								n	n						
–	–	–	–	v	v	v	v								
								–	–						
								v	v						
–	–	–	v	–	–	–	–	–	–						
–	–	–	–	v	v	v	v								
								–	–						
								v	v						
–	–	–	–	n	n	n	n								
								–	–						
								n	n						
–	–	–	–	–	–	–	v	–	v						
–	–	–	–	–	–	–	v	–	v						
–	–	–	–	–	v	–	v	–	v						
–	–	–	–	n 1)	n 1)	n 1)	n								
								–	–						
								n 1)	n						
–	–	–	–	–	–	–	v	–	v						
–	–	–	–	–	–	–	v	–	v						
–	–	–	–	–	–	–	v	–	v						
–	–	–	–	–	–	–	v	–	v						
–	–	–	–	–	–	–	v	–	v						
–	–	–	–	–	–	–	v	–	v						
–	–	–	–	–	–	–	v	–	v						
–	–	–	–	–	–	–	v	–	v						
–	–	–	n 2)	n	n	n 3)	n 3)	n	n						
–	–	–	–	v	v	v 3)	v 3)	v	v						

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

CNC functionality: Technologies

Punching/nibbling functions	**6FC5251-0AC00-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Oscillation functions (block-related, modal and asynchronous)	**6FC5251-0AB04-0AA0**
More than one feed in block (e.g. for calipers)	
Handwheel override	
Contour handwheel	**6FC5251-0AG04-0AA0**
Electronic transfer Contains the master-value coupling option (LEAD)	**6FC5250-0AD05-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Electronic transfer (CP) Contains the generic coupling "CP Comfort" option	**6FC5251-0AG05-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	

CNC functionality: Motion-synchronous actions

High-speed CNC inputs/outputs	
• 4 digital inputs/4 digital outputs on-board	
• Expansion via NCU terminal block 32 digital inputs/32 digital outputs, 8 analog inputs/8 analog outputs	See Basic components
• Expansion via SIMATIC S7 I/O 32 digital inputs/32 digital outputs 4 analog inputs/4 analog outputs	
Synchronized action (max. 16) and high-speed auxiliary function output	
Synchronized action stage 2 (up to 255 parallel actions per channel, technology cycles)	**6FC5251-0AD05-0AA0**
Positioning axes and spindles via synchronized actions (command axes)	
Analog value control in interpolation cycle (precondition: analog output)	
Path velocity-dependent analog output (laser power control)	**6FC5251-0AC04-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	

1) With restricted functionality, see export eontrol versions.
2) Precondition: MCI board extension.
3) Precondition: SIMATIC DP ET 200 analog module.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline												
802S base line	802C base line	802D base line	802D	810D E power - line	810D power - line	840Di E	840Di	840D E power - line	840D power - line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Ad-van-ced	HMI-Em-bed-ded	Shop Mill	Manual Turn	Sho p Turn	HT 6
–	–	–	–	–	–	v	v									
								–	–							
								v	v							
–	–	–	–	v	v	v	v	v	v							
–	–	–	–	n	n	n	n	n	n							
–	–	–	–	n	n	n	n	n	n							
–	–	–	–	v	v	v	v	v	v							
–	–	–	–	–	–	v 1)	v									
								–	–							
								v 1)	v							
–	–	–	–	–	–	–	–									
								–	–							
								v 1)	v							
–	–	–	–	–	–	n 2)	n 2)	n	n							
–	–	–	–	v	v	–	–	v	v							
–	–	–	–	–	–	v	v	–	–							
–	–	–	–	n 1)	n	n 1)	n	n 1)	n							
–	–	–	–	v 1)	v	v 1)	v	v 1)	v							
–	–	–	–	n	n	n	n	n	n							
–	–	–	–	n	n	n 3)	n 3)	n	n							
–	–	–	–	v	v	v 3)	v 3)									
								–	–							
								v	v							

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n CNC functionality: Motion-synchronous actions (continued)

Laser switching signal, high-speed	**6FC5251-0AE74-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5: 6/12/31 axes	
Clearance control	
• 1D in interpolation cycle via synchronized action	
• 1D/3D in position control cycle (incl. in interpolation cycle)	**6FC5251-0AC05-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5: 6/12/31 axes	
Evaluation of internal drive variables (precondition for Adaptive Control)	**6FC5251-0AB17-0AA0**
Continuous dressing (parallel dressing, online modification of tool offset)	
NCU 561.5	
NCU 571.5/572.5/573.5	
Asynchronous subroutine ASUP [1)]	
Interrupt routines with fast retraction from the contour	**6FC5251-0AA00-0AA0**
Cross mode actions (ASUPs and synchronized actions in all operating modes)	**6FC5251-0AD04-0AA0**

n Open Architecture

HMI programming package (OEM contract required)	See HMI software
HMI configuring package (OEM contract required)	See HMI software
User-interface expansion (HMI Advanced/HMI Embedded)	See HMI software
OA package NCK (OEM contract required)	See Basic components
SINUMERIK NCK Runtime OA (runtime license)	**6FC5251-0AA20-0AA0**

1) High-speed CNC inputs/outputs required.
2) With restricted functionality, see export control versions.
3) 20 unreserved screens.
4) Configuration via PROFIBUS DP.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline												
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Ad-van-ced	HMI-Em-bed-ded	Shop Mill	Manual Turn	Shop Turn	HT 6
–	–	–	–	–	–	v	v									
								–	–							
								v	v							
–	–	–	–	n	n	n	n	n	n							
–	–	–	–	–	–	v 1)	v									
								–	–							
								v 1)	v							
–	–	–	–	v	v	v 4)	v 4)	v	v							
–	–	–	–	n	n	n	n									
								–	–							
								n	n							
–	–	–	–	n	n	n	n	n	n							
–	–	–	–	v	v	v	v	v	v							
–	–	–	–	v	v	v	v	v	v							
–	–	–	–	v	v	v	v	v	v							
–	–	–	–	v	v	v	v	v	v							
–	–	–	–	x	x	x	x	x	x	v 3)	v 3)	v 3)	v 3)	v 3)	v 3)	
–	–	–	–	–	–	–	–	–	v							
–	–	–	–	–	–	–	–	–	v							

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n CNC programming: Language

Programming language (DIN 66025 and high-level language extension)	
Main program call from main program and subroutines	
Subroutine levels/interrupt routines, max.	
Number of subroutine passes ≤ 9999	
Number of levels for skip blocks (/0 to /...)	
Polar coordinates	
NCU 561.5	
NCU 571.5/572.5/573.5	
1/2/3-point contours	
Dimensions metric/inch, changeover manually or via program	
Inverse time feedrate	
Auxiliary function output via	
• M word, max. programmable value range: INT 2^{31}-1	
• H word, max. programmable value range: REAL ± 3.4028 ex 38 (display: ± 999 999 999,9999) INT -2^{31} ... 2^{31}-1	
High-level CNC language with	
• User variables, configurable	
• Predefined user variables (arithmetic parameters), configurable	
• Read/write system variables	
• Indirect programming	
• Program jumps and branches	
• Program coordination with WAIT, START, INIT	
NCU 561.5	
NCU 571.5/572.5/573.5	
• Arithmetic and trigonometric functions	
• Compare operations and logic operations	
• Macro technique	
• Control structures (IF-ELSE-ENDIF, WHILE, FOR, REPEAT, LOOP)	
• Commands to HMI	
• STRING functions	

1) M function: 1 ... 99.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Ad-van-ced	HMI-Em-bed-ded	Shop Mill	Manual Turn	Sho p Turn	HT 6
n	n	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
4/0	4/0	8/0	8/0	11/4	11/4	11/4	11/4	11/4	11/4						
n	n	n	n	n	n	n	n	n	n						
1	1	1	1	8	8	8	8	8	8						
–	–	n	n	n	n	n	n								
								–	–						
								n	n						
n	n	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
n 1)	n 1)	n	n	n	n	n	n	n	n						
–	–	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
–	–	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n								
								–	–						
								n	n						
n	n	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	x	x	x	x	x	x	n	n	–	–	–	–
–	–	–	–	n	n	n	n	n	n						

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n CNC programming: Language (continued)

Online ISO dialect interpreter	**6FC5253-0AE00-0AA0**
Program management	
• Management of programs and workpieces in NCK	
• Management of programs and workpieces on hard disk (HD)	
• Management of programs and workpieces on diskette drive	
• Management of programs and workpieces on network drive	
• Number of workpieces on NC/NC + HD, max.	
• Templates for workpieces, programs and INI files	
• Job lists	

n CNC programming: Cycles

Process-oriented cycles for drilling/milling and turning	See HMI software
Pocket milling with free contour definition and islands	See HMI software
NCU 561.5	
NCU 571.5/572.5/573.5	
Pocket milling with free contour definition, islands and residual material removal	See HMI software
NCU 561.5	
NCU 571.5/572.5/573.5	
Enhanced stock removal functions with blank part description	See HMI software
NCU 561.5	
NCU 571.5/572.5/573.5	
Enhanced stock removal functions with blank part description and residual material removal	See HMI software
NCU 561.5	
NCU 571.5/572.5/573.5	
Measuring cycles for drilling/milling and turning	See HMI software
Access protection for cycles	
Cycle storage separate from CNC main memory	**6FC5251-0AF00-0AA0**

1) Management of workpieces is not possible.
2) Precondition: DNC (option).
3) With different functionality.
4) Partially.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Ad-van-ced	HMI-Em-bed-ded	Shop Mill	Manual Turn	Sho p Turn	HT 6
–	–	–	n	v	v	v	v	v	v						
n 1)	n 1)	n 1)	n 1)	n	n	n	n	n	n	n	n	n	n	n	n
–	–	–	–	x	x	n	n	x	x	n	–	n	–	n	–
–	–	–	–	x	x	x	x	x	x	n	v	v	–	v	–
–	–	–	–	x	x	x	x	x	x	v 2)	v	v	–	v	–
100/–	100/–	100/–	100/–	250/–	250/–	1000	1000	250/–	250/–	–/1000	–	–/1000	–/1000	–/1000	–
–	–	–	–	x	x	x	x	x	x	n	–	–	–	–	–
–	–	–	–	x	x	x	x	x	x	n	–	–	–	–	–
n	n	n	n	x	x	x	x	x	x	n	v	n	n 3)	n	–
–	–	–	–	x	x	x	x			v	–	n	–	n	–
								–	–						
								x	x						
–	–	–	–	x	x	x	x			v	–	v	–	v	–
								–	–						
								x	x						
–	–	–	–	x	x	x	x			v	–	–	v	n	–
								–	–						
								x	x						
–	–	–	–	v	v	v	v			v	–	–	v	v	–
								–	–						
								v	v						
–	–	–	–	v	v	v	v	v	v	v	v	n 4)	–	n 4)	–
n	n	n	n	n	n	n	n	n	n		–				
–	–	–	–	v	v	v	v	v	v						

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n CNC programming: Program support

Program editor	
• Text editor with editing functions: Select, copy, delete, ...	
• Machining step programming	See HMI software
• Write protection for lines	
• Suppression of lines in the display	
• Dual editor	
• Multi-channel step sequence programming [5]	**6FC5253-0AF03-0AA0**
AutoTurn/AutoTurn Plus	See HMI software
Program support for geometry entries	
• Geometry processor with programming graphics/ Free contour input (contour calculator)	See HMI software
• Screens for 1/2/3-point contours	
Program support for cycles	
• Screens and stationary auxiliary displays	
• Dynamic programming graphics during programming	
• Programming support can be extended (e.g. customer cycles)	

n Parameters

Max. number of basic frames	
Max. number of selectable offsets	
Zero offsets, programmable (frames)	
Scratching, determining zero offset	
Zero offsets, external (PLC)	
Global and local user data	
Global program user data	
Display system variables (also via online configurable display) and log	

1) Configurable by Siemens.
2) For presentation of the machining step.
3) With user interface expansion, see HMI/MMC Commissioning Manual.
4) With customer cycles function.
5) On request.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
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n	n	n	n	x	x	n	n	x	x	n	n	n	n	n	n
–	–	–	–	x	x	x	x	x	x	–	–	v	n	v	–
–	–	–	–	x	x	x	x	x	x	n	–	n	–	n	–
–	–	–	–	x	x	x	x	x	x	n	–	n 2)	–	n	–
–	–	–	–	x	x	x	x	x	x	n	n	–	–	–	–
–	–	–	–	x	x	–	–	x	x	v	–	–	–	–	–
–	–	–	–	x	x	–	–	x	x	v	–	–	–	–	–
–	–	–	–	x	x	x	x	x	x	n	n	n	v	n	–
n	n	n	n	x	x	x	x	x	x	n	n	n	–	n	n
n	n	n	n	x	x	x	x	x	x	n	n	n	n	n	–
–	–	–	–	x	x	x	x	x	x	–	–	n	n	n	–
1)	1)	1)	1)	x	x	x	x	x	x	n 3)	n 3)	n 3)	n 4)	n 3)	n
1	1	1	1	16	16	x	x	16	16	16	16	1	1	1	–
4	4	6	6	100	100	x	x	100	100	100	100	100	4	100	100
1	1	n	n	n	n	n	n	n	n						
n	n	n	n	x	x	x	x	x	x	n	n	n	n	n	–
–	–	–	–	n	n	n	n	n	n	n	n	n	n	n	–
–	–	–	–	n	n	x	x	n	n	n	–	n	–	n	n
–	–	–	–	n	n	x	x	n	n	n	n	n	–	n	n
–	–	–	–	x	x	x	x	x	x	n	–	–	–	–	–

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n Simulation

Up to n channels can be simulated sequentially	
NCU 561.5	
NCU 571.5	
NCU 572.5/573.5	
Several channels and programs can machine the same blank part in succession	
Simulation of program X, while program Y is being executed	
Drilling/milling [1]	
• Multi-sided 2D view, dynamic	
• 3D view, static	
• Simultaneous recording (real-time simulation of current machining)	See HMI software
Turning [1]	
• Traverse path simulation without model (broken-line graphics)	
• Contour of blank part can be specified	
• Simulation in working plane G18	
• Simulation in working planes G17/G19	
• Full cut/partial cut with circumferential edges, front face and peripheral surfaces, milling and drilling operations	
• Counterspindle	
• 3D simulation of the finished part (static/dynamic)	See HMI software
• Simultaneous recording (real-time simulation of current machining)	
Turning [1]	**6FC5673-0AB01-0AF0**
• Traverse path simulation without model (broken-line graphics)	
• Simulation in working plane G18	
• Simultaneous recording (real-time simulation of current machining)	

n Operating modes

JOG	
• Handwheel selection	
• Inch/metric changeover	
• Manual measurement of zero offset	
• Manual measurement of tool offset	
• Automatic tool/workpiece measurement	See HMI software
• Reference point approach, automatic/via CNC program	

1) Tool carrier vertical to the workpiece.
2) Single-sided broken-line graphics at programming level.
3) Dynamic for PCU 50/PCU 50.3/PCU 70.
4) Precondition: Measuring cycles.

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–	–	–	–	2	2	2	2			10	1	1	1	1	–
								2	2						
								6	6						
								10	10						
–	–	–	–	x	x	x	x	x	x	n	–	–	–	–	–
–	–	–	–	x	x	x	x	x	x	n	–	–	–	–	–
–	–	–	n 2)	x	x	x	x	x	x	n	–	n	–	–	–
–	–	–	–	x	x	x	x	x	x	n	–	n	–	–	–
–	–	–	n 2)	x	x	x	x	x	x	–	v	v	–	–	–
–	–	–	–	x	x	x	x	x	x	n	n	–	n 5)	–	–
–	–	–	–	x	x	x	x	x	x	n	–	–	n	–	–
–	–	–	–	x	x	x	x	x	x	n	n	–	n	n	–
–	–	–	–	x	x	x	x	x	x	n	–	–	–	n	–
–	–	–	–	x	x	x	x	x	x	n	–	–	–	n	–
–	–	–	–	x	x	x	x	x	x	n	–	–	–	n	–
–	–	–	–	x	x	–	–	x	x	–	–	–	–	v 3)	–
–	–	–	–	x	x	x	x	x	x	–	n	–	n	v	–
–	–	v 2)	n 2)	–	–	–	–	–	–	–	–	–	–	–	–
–	–	v 2)	n 2)	–	–	–	–	–	–	–	–	–	–	–	–
–	–	v 2)	n 2)	–	–	–	–	–	–	–	–	–	–	–	–
n	n	n	n	n	n	n	n	n	n	n	n				n
n	n	n	n	n	n	x	x	n	n	n	n	–	–	–	–
–	–	n	n	n	n	x	x	n	n	n	n	n	n	n	–
n	n	n	n	x	x	x	x	x	x	n	n	n	n	n	–
n	n	n	n	x	x	x	x	x	x	–	–	n	n	n	–
–	–	n	n	n	n	x	x	n	n	v 4)	–	n	–	n	–
n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n

5) Only turning.

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n Operating modes (continued)

MDA	
• Input in text editor	
• Save MDA program	
• Input screen forms for technology and positioning, cycle support	
Teach In	
• Teach positions in MDA buffer	
• Teach (record/playback)	
• Teach In with HT 6	
Teach In	**6FC5571-0AA01-0BF0**
Automatic	
• Execution from network drive or PC card for PCU 20	See HMI software
• Execution from RS 232 C (V.24) interface	
• Execution from hard disk	
• Program control	
• Program editing	
• Overstoring	
• DRF offset	
• Block search with/without calculation	
Repos (repositioning on the contour)	
• With operator command/semi-automatically	
• Program-controlled	
Preset	
Set actual value	

n Tools

Tool types	
• Turning	
• Drilling/milling	
• Grinding	
• Groove sawing	

1) Precondition: DNC (option).
2) Possible with restrictions.
3) Precondition: Network/disk drive management on PCU 20 (option).

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SINUMERIK, SIMODRIVE, Lists (LIS1), 11/2006 Edition

SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
n	n	n	n	n	n	x	x	n	n	n	n				n
n	n	n	n	n	n	x	x	n	n	n	n	n	–	n	n
–	–	–	–	n	n	x	x	n	n	n	n	–	–	–	n
–	–	–	–	n	n	x	x	n	n	–	–	n	n	n	–
–	–	–	–	n	n	x	x	n	n						
–	–	–	–	n	n	x	x	n	n	n	n	–	–	–	n
–	–	–	–	n	n	–	–	n	n	–	–	–	n	–	–
–	–	–	–	v	v	v	v	v	v	–	–	–	–	–	n
v	v	–	–	–	–	–	–	–	–						
n	n	n	n	n	n	n	n	n	n	n	n				n
–	–	–	–	n	n	x	x	n	n	v 1)	v 3)	v	–	v	–
n	n	n	n	n	n	x	x	n	n	n	n	n	–	n	–
–	–	–	–	n	n	x	x	n	n	n	–	n	–	n	–
n	n	n	n	n	n	x	x	n	n	n	n	n	n 2)	n	n
n	n	n	n	n	n	x	x	n	n	n	n	n	–	n	n
–	–	–	–	n	n	x	x	n	n	n	n	–	–	–	n
–	–	–	–	n	n	x	x	n	n	n	n	n	n	n	n
n	n	n	n	n	n	x	x	n	n	n	n	n	n/–	n	n
n	n	n	n	n	n	x	x	n	n	n	n	n	n	n	–
–	–	–	–	n	n	x	x	n	n	n	n	n	n	n	–
–	–	–	–	n	n	x	x	n	n	n	n	n	n	n	–
–	–	–	–	n	n	x	x	n	n	n	n	n	n	n	–
n	n	n	n	n	n	x	x	n	n	n	n	–	n	n	n
n	n	n/–	n	n	n	x	x	n	n	n	n	n	n	n	n
–	–	–	–	n	n	x	x	n	n	n	n	–	–	–	n
–	–	–	–	n	n	x	x	n	n	n	n	–	–	–	n

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n Tools (continued)

Tool radius compensations in plane	
• With approach and retract strategies	
NCU 561.5	
NCU 571.5/572.5/573.5	
• With transition circle/ellipse on outer edges	
NCU 561.5	
NCU 571.5/572.5/573.5	
Configurable intermediate blocks with tool radius compensation active	
NCU 561.5	
NCU 571.5/572.5/573.5	
3D tool radius compensation	**6FC5251-0AB13-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Tool change via T number	
Tool carrier with orientation capability	
NCU 561.5	
NCU 571.5/572.5/573.5	
Look-ahead detection of contour violations	
NCU 561.5	
NCU 571.5/572.5/573.5	
Grinding-specific tool offset with grinding wheel surface speed	
NCU 561.5	
NCU 571.5/572.5/573.5	
Tool orientation interpolation [1)]	
Online tool length compensation	
Operation without tool management	
• Tool offset selection via D number without T assignment (flat D number)	
• Editing of tool data	
• Tool offset selection via T and D numbers	
• Data backup via RS 232 C (V.24) interface	
• Number of tools/cutting edges in tool list	

1) Precondition: Machining package 5 axes (option).

2) For turning.
3) For milling.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline												
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Ad-van-ced	HMI-Em-bed-ded	Shop Mill	Manual Turn	Sho p Turn	HT 6
–	–	–	–	n	n	n	n								
								–	–						
								n	n						
n	n	n	n	n	n	n	n								
								–	–						
								n	n						
–	–	–	–	n	n	n	n								
								–	–						
								n	n						
–	–	–	–	–	–	v	v			n	n	n	–	–	–
								–	–						
								v	v						
n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	–
–	–	–	–	n	n	n	n			n	n	n	–	–	–
								–	–						
								n	n						
n	n	n	n	n	n	n	n								
								–	–						
								n	n						
–	–	–	–	n	n	n	n			n	n	–	–	–	–
								–	–						
								n	n						
–	–	–	–	–	–	–	n	–	n						
–	–	–	–	–	–	–	–	n	n						
n	n	n	n	n	n	x	x	n	n	n	n	–	n	–	n
–	–	–	–	n	n	x	x	n	n	n	n	–	–	–	n
n	n	n	n	n	n	x	x	n	n	n	–	–	–	–	n
n	n	n	n	n	n	x	x	n	n	n	n	n	–	n	–
n	n	n	n	–	–	–	–	–	–	–	–	–	–	–	–
15/30	15/30	18/36	32/64 2) 48/96 3)	600/ 1500	600/ 1500	600/ 1500 x	600/ 1500 x	600/ 1500	600/ 1500			–	–	–	

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n Tools (continued)

Operation with tool management	**6FC5251-0AB12-0AA0**
• System displays in standard software	
• Comfortable startup via system displays	
• Tool list	
• Configurable tool lists	
• Number of tools/cutting edges in tool list	
• Unambiguous D number structure	
• Tool offset selection via T and D numbers	
• Editing of tool data	
• Editing of OA data	
• Magazine list	
• Configurable magazine list	
• More than one magazine is possible	
• Magazine data	
• Vacant position search and positioning	
• Easy vacant position search using softkeys	
• Loading and unloading of tools	
• More than one loading and unloading point per magazine	
• Tool cabinet and tool catalog	
• Loading and unloading via code carrier system	
• Adapter data	
• Local compensations	
• Connection to TDI	
• Data backup on hard disk	
• Data backup via RS 232 C (V.24) interface	
Monitoring of tool life and workpiece count	**6FC5651-0AA01-0AA0**

1) Valid for PCU 50/PCU 50.3/PCU 70. For PCU 20: 250/500.
2) Available with PCU 50/PCU 50.3.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Ad-van-ced	HMI-Em-bed-ded	Shop Mill	Manual Turn	Shop Turn	HT 6
–	–	–	–	v	v	x	x	v	v	v	v	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	v	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	–	2)	–	2)	–
–	–	–	–	v	v	v	v	v	v	v	v	n	–	n	–
–	–	–	–	v	v	v	v	v	v	v	–	–	–	–	–
–	–	–	–	600/1500	600/1500	600/1500 x	600/1500 x	600/1500	600/1500	600/1500	600/1500	600/1200 1)	100/1	600/1200 1)	–
–	–	–	–	v	v	x	x	v	v	v	–	–	–	–	–
–	–	–	–	n	n	n	n	n	n	n	n	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	v	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	v	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	v	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	–	–	–	–	–
–	–	–	–	32	32	32	32	32	32	32	32	3	–	3	–
–	–	–	–	v	v	x	x	v	v	v	v	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	v	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	–	–	–	–	–
–	–	–	–	v	v	x	x	v	v	v	v	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	–	–	–	–	–
–	–	–	–	v	v	x	x	v	v	v	–	–	–	–	–
–	–	–	–	v	v	x	x	v	v	v	–	–	–	–	–
–	–	–	–	v	v	x	x	v	v	v	–	–	–	–	–
–	–	–	–	v	v	x	x	v	v	v	–	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	–	n	–	n	–
–	–	–	–	v	v	x	x	v	v	v	v	n	–	n	–
–	–	–	v	–	–	–	–	–	–						

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n Grundausführung v Option x Funktion abhängig von Bedien-Software X Voraussetzung: Bedien-Software HMI-Advanced – nicht möglich	Bestell-Nr.
n Communication	
Serial interface RS 232 C (V.24)	
Parallel interface (Centronics)	
Disk drive operation	See HMI software
Multipoint Interface (MPI)	
Ethernet connection	See HMI software
I/O interfacing to via PROFIBUS DP [1] (software option)	**6FC5252-0AD00-0AA0**
Data exchange between machining channels	
High-speed data interchange between CNC and PLC	
Data backup on hard disk	
Data backup on PC card	
PC card as additional program memory (PCU 20)	
n ePS Network Services	
ePS Network Services: - Company Account and - Value Account are preconditions for service use	See HMI software
• eP Access: Remote control and monitoring of machine control systems using Internet Explorer	See HMI software
• eP Dynamic (includes eP Access): Acquisition, logging, analysis and processing of machine faults	See HMI software
• eP Performance (includes eP Dynamic): Procedure for acquiring the machine status and maintenance support	See HMI software
n Motion Control Information System MCIS	
DNC Machine/IFC: CNC program transfer via the network	See HMI software
TDI: Tool management function for individual machines and networked machines	See HMI software
TDI Ident Connection: Connection to tool identification systems	See HMI software
MDA Machine/IFC: Machine and production data acquisition	See HMI software
RPC SINUMERIK: Data interchange between CNC and host computer	See HMI software
TPM Machine: Support for maintenance and repair	See HMI software
RCS @Event	See HMI software

1) For literature on the subject of PROFIBUS DP, see Services – Documentation.
2) For PCU 20/PCU 50/PCU 70.
3) For PCU 50/PCU 70.
4) Precondition: DNC (option).

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
										Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software					
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
n	n	n	n	x	x	n	n	x	x	n 3)	n 2)	n 2)	n 2)	n 2)	n
–	–	–	–	x	x	n	n	x	x	n 3)	–	n 3)	n 3)	n 3)	–
–	–	–	–	x	x	n	n	x	x	n	v	v	–	v	–
–	–	–	–	n	n	n	n	n	n	n	n	n	n	n	n
–	–	–	–	x	x	n	n	x	x	v 4)	v	v	–	v	–
–	–	n	n	v	v	n	n	v	v						
–	–	–	–	n	n	n	n	n	n				–	–	
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	x	x	n	n	x	x	n	–	n 3)	n 3)	n 3)	–
–	–	n	n	n	n	–	–	n	n	n	n	n	n	n	n
–	–	–	–	x	x	–	–	x	x	–	n 5)	–	–	–	–
–	–	–	–	x	x	X	X	x	x	v 6)	–	v 6)	v 6)	v 6)	–
–	–	–	–	x	x	X	X	x	x	v 6)	–	v 6)	v 6)	v 6)	–
–	–	–	–	x	x	X	X	x	x	v 6)	–	v 6)	v 6)	v 6)	–
–	–	–	–	v 7)	v 7)	v 7)	v 7)	v 7)	v 7)	v 6)	–	v 6)	v 6)	v 6)	–
–	–	–	–	x	x	x	x	x	x	v	–	v 3)	v 3)	v 3)	–
–	–	–	–	x	x	x	x	x	x	v	–	v 3)	–	–	–
–	–	–	–	x	x	x	x	x	x	v	–	–	–	–	–
–	–	–	–	x	x	x	x	x	x	v	–	v 3)	v 3)	v 3)	–
–	–	–	–	x	x	x	x	x	x	v	–	–	–	–	–
–	–	–	–	x	x	x	x	x	x	v	–	–	–	–	–
–	–	–	–	x	x	x	x	x	x	v	–	v 3)	v 3)	v 3)	–

5) Excludes use of RCS Host remote diagnostics on PC card. RCS Host Embedded can be used. Precondition: Network/disk drive management on PCU 20 (option).

6) For PCU 50/PCU 50.3/PCU 70 with HMI-Advanced.

7) On request.

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n Grundausführung v Option x Funktion abhängig von Bedien-Software X Voraussetzung: Bedien-Software HMI-Advanced – nicht möglich	Bestell-Nr.
n Data management	
ADDM agent: Backup and recovery client (precondition: SIMATIC STEP 7)	See HMI software
n Tool identification system	
Connection of tool identification system MOBY E	See HMI software
n Operation	
Operator panel fronts OP 015/OP 015A/TP 015A, 15" color	See Operator components
Operator panel fronts OP 012, 12.1" color	See Operator components
Operator panel fronts TP 012, 12.1" color 4)	See Operator components
Operator panel fronts OP 010/OP 010C/OP 010S, 10.4" color	See Operator components
Thin Client Unit for operator panel fronts	
• TCU	See Operator components
Operator panel fronts with integrated TCU	
• OP 015AT/TP 015AT, 15" color	See Operator components
• OP 012T, 12.1" color	See Operator components
• OP 08T, 7,5" color	See Basic components
PCU 20 3)	See Operator components
PCU 50 3)	See Operator components
PCU 50.3 3)	See Operator components
PCU 70 3)	See Operator components
Control unit management with TCU	See Operator components
Identical display on all OPs with TCU	
• Simultaneous operation interlock	
• Different resolutions (e.g. OP 010/HT 8)	
• Up to 4 operator panel fronts with one TCU each on a PCU 50/PCU 50.3/PCU 70 1) plus 1 additional operator panel front directly on the PCU 50/PCU 50.3/PCU 70 1)	
Physical separation of operator panel front (OP) and PCU as well as connection of up to 3 operator panels via video link	
1 operator panel for up to 8 NCUs/ 2 operator panels for up to 4 NCUs	
Control unit management for each PCU (up to 9 PCUs for up to 9 NCUs) Functionality: Active, passive and suppression mechanisms	**6FC5253-0AE03-0AA0**
Integrated operator panel: SINUMERIK 802S/802C base line, 8" monochrome	See Basic components
Operator panel SINUMERIK 802D base line/802D, 10.4" monochrome/color	See Basic components
Connection for	See Operator components
• Standard VGA monitor with PCU 50/PCU 70	
• Standard DVI monitor with PCU 50.3, VGA via ext. adapter	

1) Precondition: PCU with 1.2 GHz.
2) Three CCUs on one operator panel. Two operator panels on one CCU.
3) HMI software for PC/PG can be ordered separately.
4) For customized operator interface.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S baseline	802C baseline	802D baseline	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software					
										HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
–	–	–	–	x	x	x	x	x	x	v	–	v 3)	v 3)	v 3)	–
–	–	–	–	x	x	–	–	x	x	v					
–	–	–	–	v	v	v	v	v	v	v	v	v	–	v	–
–	–	–	–	v	v	v	v	v	v	v	v	v	–	v	–
–	–	–	–	v	v	v	v	v	v	–	–	–	–	–	–
–	–	–	–	v	v	v	v	v	v	v	v	v	v	v	–
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	v	v	–	–	v	v	–	n	v	v	v	–
–	–	–	–	v	v	n	n	v	v	v	v	v	v	v	–
–	–	–	–	v	v	–	–	v	v	v	v	v	v	v	–
–	–	–	–	v	v	–	–	v	v	v	v	v	v	v	–
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	n	n	–	–	n	n						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	n 2)	n 2)	–	–	n	n	n	n	–	–	–	–
–	–	–	–	–	–	–	–	x	x	v	v	–	–	–	v
n	n	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	n/v	n/v	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						

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n Grundausführung
v Option
x Funktion abhängig von Bedien-Software
X Voraussetzung: Bedien-Software HMI-Advanced
– nicht möglich

Bestell-Nr.

n Operation (continued)

Connection for	
• SIMATIC OP 170B/OP 177B with 6"/10" display [1]	
• SIMATIC TP 170B/TP 177B/TP 270 with 6"/10" display [1]	
• SIMATIC Mobile Panel 170/Mobile Panel 177 [1]	
• SIMATIC MP 270B/MP 370 with Key/Touch [1]	
Connection of SIMATIC HMI to PLC	
SINUMERIK HT 8 handheld terminal	See Operator components
SINUMERIK HT 6 handheld terminal	See Operator components
Mini handheld unit	See Operator components
Handheld unit type B-MPI	See Operator components
Machine control panel	See Operator components
Pushbutton panel	See Operator components
Electronic handwheels can be connected	See Operator components
CNC keyboard, horizontal/vertical	See Basic components
Full CNC keyboard	See Operator components
Standard PC keyboard MF-II	See Operator components
Floppy disk (3.5"/1.44 MB)	See Operator components
Floppy disk (3.5"/1.44 MB) with USB connection	See Operator components
Plain text display of user variables	
Multi-channel display	
2D representation of 3D protection areas/work areas	
Actual-value system for workpiece (grinding)	
Menu selection via the PLC	
CNC program messages	
Online help for programming, alarms and machine data (can be extended)	
Screen blanking	
Access protection, 8 levels	

1) WinCC flexible is required for OA applications.
2) Third handwheel can be operated as a contour handwheel (option).
3) Precondition: MCI board extension.
4) Included in scope of supply, see Ordering Data.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline													
										Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software					
802S base line	**802C base line**	**802D base line**	**802D**	**810D E power-line**	**810D power-line**	**840Di E**	**840Di**	**840D E power-line**	**840D power-line**	**HMI-Advanced**	**HMI-Embedded**	**Shop Mill**	**Manual Turn**	**Shop Turn**	**HT 6**
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	v	v	–	–	v	v						
–	–	–	–	v	v	v	v	v	v	–	–	–	–	–	n
v	v	v	v	v	v	v	v	v	v						
–	–	–	–	v	v	v	v	v	v						
n	n	v	v	v	v	v	v	v	v						
–	–	–	–	v	v	v	v	v	v						
2	2	3	3	2/3 2)	2/3 2)	2 3)	2 3)	2/3 2)	2/3 2)						
–	–	v	n 4)	–	–	–	–	–	–						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	x	x	v	v	x	x	v	v	v	v	v	–
–	–	–	–	x	x	–	–	x	x	v	–	–	–	–	–
–	–	–	–	n	n	x	x	n	n	n	n	n	–	n	n
–	–	–	–	x	x	–	–	x	x	n	–	–	–	–	–
–	–	–	–	n	n	x	x	n	n	n	n	–	–	–	–
–	–	–	–	n	n	n	n	n	n	n	n	–	–	–	–
–	–	–	–	–	–	–	–	x	x	n	n	n	–	n	–
–	–	n	n	n	n	x	x	n	n	n	n	–	–	–	n
–	–	–	–	n	n	x	x	n	n	n	–	–	–	–	–
–	–	–	–	n	n	n	n	n	n	n	n	n	n	n	n
n	n	n	n	n	n	n	n	n	n	n	n	n	–	n	n

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n Grundausführung v Option x Funktion abhängig von Bedien-Software X Voraussetzung: Bedien-Software HMI-Advanced – nicht möglich	Bestell-Nr.
n Operation (continued)	
Languages of operating software	
Languages of operating software packages HMI Advanced, HMI Embedded, ShopMill, ShopTurn on CD-ROM	See HMI software
• 2 languages switchable online	
• Chinese Simplified, English, French, German, Italian, Spanish	
• Additional languages: Czech, Hungarian, Polish, Russian, Turkish	See Basic components
• Additional languages: Chinese Traditional, Czech, Finnish, Hungarian, Korean, Polish, Russian, Turkish	See Basic components
• Additional languages: e.g. Chinese Traditional, Czech, Danish, Dutch, Finnish, Hungarian, Japanese, Korean, Polish, Romanian, Russian, Swedish, Turkish	
• Maximum configuration for installed languages	
• Other languages	
Operating software can be used for:	
• SINUMERIK 810D powerline/840D powerline	See HMI software
• SINUMERIK 840Di	See HMI software
Operator interface with Solution for Powertrain TRANSLINE HMI PRO software	See HMI software
Operator interface with Solution for Powertrain TRANSLINE HMI Lite CE software	See HMI software
n Axis monitoring functions	
Working area limitation	
Limit switch monitoring Software and hardware limit switches	
2D/3D protection zones	
Contour monitoring	
Contour monitoring with tunnel function	**6FC5251-0AB16-0AA0**
Position monitoring	
Standstill (zero-speed) monitoring	
Clamping monitoring	
Path length evaluation	**6FC5251-0AF05-0AA0**

1) No Simplified Chinese.
2) Included on the CD-ROM Toolbox.
3) Included on CD-ROM of HMI language extensions. Please enquire about available software versions.
4) No Traditional Chinese or Korean.
5) No restriction.
6) On request.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S baseline	802C baseline	802D baseline	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
–	–	–	–	v	v	v	v	v	v	v	v	v	v	v	v
n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
n	n	n	n	X	X	X	X	x	x	n	n	n	n	n 1)	n
n 2)	n 2)	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	n 2)	n 2)	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	X	X	X	X	x	x	v 3)	v 3)	v 3)	v 3) 4)	v 3)	v
2	2	2	2	X	X	X	X	x	x	5)	8	8	8	8	2
6)	6)	6)	6)	X	X	X	X	x	x	6)	6)	6)	6)	6)	6)
–	–	–	–	v	v	–	–	v	v	v	v	v	v	v	v
–	–	–	–	–	–	v	v	–	–	v	–	v 7)	–	–	v
–	–	–	–	–	–	x	x	x	x	v	–	–	–	–	–
–	–	–	–	–	–	–	–	v	v	–	–	–	–	–	–
–	–	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	v	v	v	v	v	v						
–	n	n	n	n	n	n	n	n	n						
–	n	n	n	n	n	n	n	n	n						
–	n	n	n	n	n	n	n	n	n						
–	–	–	–	v	v	–	–	v	v						

7) Precondition: Uninterruptible power supply (UPS).

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n Grundausführung v Option x Funktion abhängig von Bedien-Software X Voraussetzung: Bedien-Software HMI-Advanced – nicht möglich	Bestell-Nr.

n Compensations

Backlash compensation	
Leadscrew error compensation	
Measuring system error compensation	
Electronic weight counterbalance	**6FC5255-0AC00-0AA0**
Sag compensation, multi-dimensional	**6FC5251-0AB15-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Quadrant error compensation per operation	
NCU 561.5	
NCU 571.5/572.5/573.5	
Quadrant error compensation, automatic (neural network)	**6FC5251-0AB14-0AA0**
NCU 561.5	
NCU 571.5/572.5/573.5	
Graphical monitoring of quadrant error compensation using the circularity test	See HMI software
Temperature compensation	**6FC5251-0AA13-0AA0**
Automatic drift compensation for analog speed setpoints	
Feedforward control	
• Velocity-dependent	
• Acceleration-dependent	**6FC5250-0AA07-0AA0**
3D error compensation SEC 3D	**6FC5251-0AF33-0AA0**

n PLC area

SIMATIC S7-200 (integrated)	
SIMATIC S7-300 CPU 314C-2 DP (integrated)	
SIMATIC S7-300 CPU 317-2 DP (integrated)	

1) With restricted functionality, see export control versions.

2) Precondition: Commissioning tool for SIMODRIVE 611 digital. Already included in HMI-Advanced system software, also for PC/PG.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
										Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software					
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	HMI-Ad-van-ced	HMI-Em-bed-ded	Shop Mill	Manual Turn	Shop Turn	HT 6
n	n	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	v	v	–	–	v	v						
–	–	–	–	v 1)	v	v 1)	v								
								–	–						
								v 1)	v						
–	–	–	–	n	n	x	x			n	–	–	–	–	–
								–	–						
								n	n						
–	–	–	–	v	v	–	–								
								–	–						
								v	v						
–	–	–	–	x	x	–	–	x	x	n	v 2)				–
–	–	–	–	v	v	v	v	v	v						
–	n	–	–	–	–	–	–	–	–						
–	–	n	n	n	n	n	n	n	n						
–	–	–	–	v	v	–	–	v	v						
–	–	–	–	–	–	v	v	v	v						
n	n	n	n	–	–	–	–	–	–						
–	–	–	–	n	n	–	–	–	–						
–	–	–	–	–	–	n	n	n	n						

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n Grundausführung v Option x Funktion abhängig von Bedien-Software X Voraussetzung: Bedien-Software HMI-Advanced – nicht möglich	Bestell-Nr.
n PLC area (continued)	
Machining time, typically in ms/KI for bit operations [3]	
Machining time, typically in ms/KI for word operations [3]	
PLC user memory in KB, incl. basic PLC program	
PLC user memory, maximum configuration in KB	
Expansion of the PLC user memory by 64 KB	**6FC5252-0AA03-0AA0**
Ladder steps memory configuration	
PLC programming with HiGraph (add-on package for STEP 7)	
PLC programming tool	See HMI software
PLC programming tool, PLC program examples, standard machine data and alarm text editor on Toolbox	
Toolbox with basic PLC program, standard machine data and CNC variable selector	See HMI software
Digital inputs, input image max. in bytes	
Digital outputs, output image max. in bytes	
I/O inputs, max. number in bytes	
I/O outputs, max. number in bytes	
Bit memories, max. number in bytes	
Timers, max. number	
Counters, max. number	
FB, FC (max. number per type)	
DB, max. number	
Cyclic function block	
Time-controlled function blocks	
Equipment for PLC programming and program test with PG/PC	
Max. number of I/O modules (central configuration)	See Basic components
Distributed DP slaves on PROFIBUS DP, max. number	
PP 72/48 I/O module	See Basic components
Distributed I/O via PROFIBUS DP	
• Via CP 342-5 DP, data transfer rate up to 1.5 Mbit/s	
• Via integrated interface, data transfer rates up to 12 Mbit/s	See Communication
PROFINET IO/PROFINET CBA Via external CP 343-1 communication board (Advanced)	
User machine data for configuring the PLC user program	

1) Without CNC variable selector.
2) Included in the basic package.
3) 1 KI = 1024 instructions; corresponds to approx. 3 KB.
4) With PLC module D I/O.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S base line	802C base line	802D base line	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
1.8	1.8	0.4	0.4	0.1	0.1	0.03	0.03	0.03	0.03						
5.9	5.9	1.4	1.4	0.25	0.25	0.1	0.1	0.1	0.1						
–	–	–	–	n 96	n 96	n 128	n 128	n 128	n 128						
–	–	–	–	480	480	768	768	768	768						
–	–	–	–	v	v	v	v	v	v						
4000	4000	6000	6000	–	–	–	–	–	–						
–	–	–	–	v	v	v	v	v	v						
n 2)	n 2)	n 2)	n 2)	–	–	–	–	–	–						
n 2)	n 2)	n 2)	n 2)	–	–	–	–	–	–						
n 1)	n 1)	n 1)	n 1)	v	v	n	n	v	v						
48/ 64 4)	48/ 64 4)	144	144	128	128	128	128	256	256						
16/ 32 4)	16/ 32 4)	96	96	128	128	128	128	256	256						
48	48	144	144	2048 5)	2048 5)	2048 5)	2048 5)	4096	4096						
16	16	96	96	2048 5)	2048 5)	2048 5)	2048 5)	4096	4096						
1024	1024	3072	3072	4096	4096	4096	4096	4096	4096						
16	16	40	40	256	256	512	512	512	512						
32	32	32	32	256	256	512	512	512	512						
64 6)	64 6)	64 6)	64 6)	256	256	2048 7)	2048 7)	2048 7)	2048 7)						
–	–	–	–	399	399	2047 7)	2047 7)	2047 7)	2047 7)						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	n	n	n	n						
v	v	v	v	v	v	v	v	v	v						
–	–	v 2	v 2	v 24	v 24	–	–	v 24	v 24						
–	–	–	–	v 32	v 32	v 125	v 125	v 125	v 125						
–	–	n 2)	n 2)	–	–	v	v	–	–						
–	–	–	–	n	n	–	–	n	n						
–	–	n	n	v	v	n	n	v	v						
–	–	–	–	n	n	–	–	n	n						
n	n	n	n	n	n	n	n	n	n						

5) Number = Sum of inputs and outputs.
6) Subroutines.
7) FBs, FCs and DBs in total max. 2048.

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n Grundausführung v Option x Funktion abhängig von Bedien-Software X Voraussetzung: Bedien-Software HMI-Advanced – nicht möglich	Bestell-Nr.
n Monitoring functions	
Axis limitation from the PLC	
Spindle speed limitation	
Generator operation	**6FC5255-0AE00-0AA0**
Extended stop and retract (ESR), incl. generator operation	**6FC5250-0AE01-0AA0**
Tool and process monitoring [1]	See HMI software
PROFIBUS tool and process monitoring	**6FC5251-0AE71-0AA0**
Axial data output via PROFIBUS (ADAS)	**6FC5251-0AF44-0AA0**
n Safety functions	
SINUMERIK Safety Integrated safety functions for personnel and machine protection [2]	See Basic components
• SI Basic (for up to 1 axis/spindle; up to 4 inputs/outputs can be used for the safe programmable logic)	**6FC5250-0AG00-0AA0**
• SI Comfort (for up to 1 axis/spindle; up to 64 inputs/outputs can be used for the safe programmable logic)	**6FC5250-0AG10-0AA0**
• SI axis/spindle (from the second axis/spindle, per axis/spindle)	**6FC5250-0AG11-0AA0**
• SI axis/spindle package (additional 15 axes/spindles)	**6FC5250-0AG12-0AA0**
SinuCom NC SI	See HMI software
n Startup	
Startup software for converter system is integrated:	
• SIMODRIVE 611 digital	
• SIMODRIVE 611 universal HRS	
Startup software on external PC/PG	See HMI software
• SIMODRIVE 611 universal HRS	
Startup trace (drive optimization without an additional oscilloscope)	
SINUMERIK 840Di startup (SimoCom U and SinuCom NC)	
Series startup via serial interface	
Series startup via programming of PC card offline or online	

1) Product of Solution Partner (currently for ARTIS).
2) Precondition: See Basic Components.
3) Included in the basic package.

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S baseline	802C baseline	802D baseline	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
–	–	–	–	n	n	n	n	n	n						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	–	–	–	–	v	v						
–	–	–	–	–	–	–	–	v	v						
–	–	–	–	–	–	–	–	v	v						
–	–	–	–	–	–	–	–	v	v						
–	–	–	–	–	–	v	v	v	v						
–	–	–	–	–	–	–	–	v	v						
–	–	–	–	–	–	–	–	v	v						
–	–	–	–	–	–	–	–	v	v						
–	–	–	–	–	–	–	–	v	v						
–	–	–	–	x	x	–	–	x	x	n	–				–
–	–	–	–	–	–	n	n	–	–	–	–				–
n 3)	n 3)	n 3)	n 3)	v	v	v	v	v	v						
n	n	n	n	x	x	x	x	x	x	n	v				–
–	–	–	–	–	–	n	n	–	–						
n	n	n	n	n	n	x	x	n	n	n	n				–
–	–	n	n	n	n	–	–	n	n	n	n				–

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n Grundausführung v Option x Funktion abhängig von Bedien-Software X Voraussetzung: Bedien-Software HMI-Advanced – nicht möglich	Bestell-Nr.
n Startup (continued)	
SinuCom startup software for SINUMERIK 810D powerline/840Di/840D powerline	
SinuCom NC Dialog-based parameterization of machine data, management of series startup files, integrated online help for functions, machine data and alarms	See HMI software
SinuCom NC Trace Dynamic recording of variables and signals – optimization without additional oscilloscope	See HMI software
SinuCom FFS Creation of an image for the PC card	See HMI software
SinuCom ARC Reading, deleting, inserting and changing series startup files	See HMI software
Startup software on PC/PG for SIMODRIVE 611 digital	See HMI software
n Diagnostic functions	
PLC status	
LAD display	
Process fault diagnostics for S7 HiGraph and S7 Graph for PCU 50/PCU 50.3/PCU 70 with Solution for Powertrain TRANSLINE HMI PRO	See HMI software
RCS remote diagnostics/host and viewer	See HMI software
PLC remote diagnostics	**6FC5653-0AA01-0AA0**
Alarms and messages	
Action log can be activated for diagnostic purposes	
n Tools	
Programming language SIMATIC STEP 7	See HMI software
• LAD ladder diagram	
• FBD function block diagram	
• STL statement list	
SIMATIC STEP 7 for SINUMERIK hardware for service functions	
SinuCom PCIN	See HMI software
SinuCom Update Agent for series startup and software	See HMI software
Data backup (Backup/Restore) with ghost on hard disk/network	See HMI software
CAD reader for PC	See HMI software
Offline SINUMERIK 800/840D CNC program converter	On request

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SINUMERIK 802				SINUMERIK 810D powerline/840Di/840D powerline											
802S baseline	802C baseline	802D baseline	802D	810D E power-line	810D power-line	840Di E	840Di	840D E power-line	840D power-line	Hinweise zur Bedien-Software Leeres Feld: Funktion unabhängig von Bedien-Software HMI-Advanced	HMI-Embedded	Shop Mill	Manual Turn	Shop Turn	HT 6
–	–	–	–	v	v	n	n	v	v						
–	–	–	–	–	–	–	–	v	v						
–	–	–	–	v	v	–	–	v	v						
–	–	–	–	v	v	–	–	v	v						
–	–	–	–	v	v	–	–	v	v						
n	n	n	n	n	n	x	x	n	n	n	n	n	n	n	n
–	–	–	n	–	–	–	–	–	–			–	–	–	–
–	–	–	–	–	–	v	v	v	v						–
–	–	–	–	x	x	x	x	x	x	v	v	v	v	v	v
–	–	–	v	–	–	–	–	–	–						
n	n	n	n	n	n	n	n	n	n						
–	–	–	–	n	n	x	x	n	n	n	n	n	n	n	–
n	n	n	n	v	v	v	v	v	v						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	x	x	v	v	x	x	v	–				–
–	–	–	v	v	v	v	v	v	v						
–	–	–	–	v	v	–	–	v	v						
–	–	–	–	n	n	n	n	n	n						
–	–	–	–	v	v	v	v	v	v						
–	–	–	–	v	v	v	v	v	v	–	–	–	–	–	–

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Overview of options for SINUMERIK 810D powerline/840Di/840D powerline

Option	Page	Bestell-Nr.
2nd additional machining channel and maximum memory configuration as a package	2/6	**6FC5451-0AF03-0AA0**
3-axis transformation PARACOP	2/18	**6FC5251-0AE31-0AA0**
3D error compensation SEC 3D	2/46	**6FC5251-0AF33-0AA0**
Additional axis/spindle + channel (for NCU 561.x)	2/4	**6FC5251-0AD08-0AA0**
Advanced Position Control	2/12	**6FC5251-0AF04-0AA0**
Advanced Processing 1	2/14	**6FC5251-0AF10-0AA0**
Advanced Processing 2	2/14	**6FC5251-0AF11-0AA0**
Axial data output via PROFIBUS (ADAS)	2/50	**6FC5251-0AF44-0AA0**
Axial coupling in the machine coordinate system	2/16	**6FC5251-0AD11-0AA0**
Axis container	2/12	**6FC5251-0AE01-0AA0**
Axis/spindle interpolation, each additional	2/6	**6FC5251-0AA03-0AA0**
Clearance control, 1D/3D in position control cycle	2/22	**6FC5251-0AC05-0AA0**
CNC user memory expanded by 1 MB	2/4	**6FC5251-0AD02-0AA0**
Continue machining at the contour (retrace support)	2/14	**6FC5251-0AE72-0AA0**
Contour handwheel	2/20	**6FC5251-0AG04-0AA0**
Contour monitoring with tunnel function	2/44	**6FC5251-0AB16-0AA0**
Control unit management	2/40	**6FC5253-0AE03-0AA0**
Cross-mode actions	2/22	**6FC5251-0AD04-0AA0**
Cycle storage separate from CNC main memory	2/26	**6FC5251-0AF00-0AA0**
Electronic gear unit	2/16	**6FC5251-0AE00-0AA0**
Electronic transfer	2/20	**6FC5250-0AD05-0AA0**
Electronic transfer CP	2/20	**6FC5251-0AG05-0AA0**
Electronic weight counterbalance	2/46	**6FC5255-0AC00-0AA0**
Enabling of internal drive control 6th axis for interpolation tasks	2/6	**6FC5451-0AF02-0AA0**
Enabling of internal drive control 6th axis for positioning tasks	2/6	**6FC5451-0AF01-0AA0**
Evaluation of internal drive variables	2/22	**6FC5251-0AB17-0AA0**
Extended stop and retract ESR	2/50	**6FC5250-0AE01-0AA0**
Fast interpolation link	2/12	**6FC5251-0AF03-0AA0**
Feedforward control, acceleration-dependent	2/46	**6FC5250-0AA07-0AA0**
Generator operation	2/50	**6FC5255-0AE00-0AA0**
Generic couplings	2/16	
• CP Basic		**6FC5251-0AG01-0AA0**
• CP Comfort		**6FC5251-0AG02-0AA0**
• CP Expert		**6FC5251-0AG03-0AA0**
Handling transformation package	2/18	**6FC5251-0AD07-0AA0**
Inclined axis	2/18	**6FC5251-0AB06-0AA0**
Interrupt routines with fast retraction from the contour	2/22	**6FC5251-0AA00-0AA0**
I/O interfacing via PROFIBUS DP	2/38	**6FC5252-0AD00-0AA0**

Option	Page	Bestell-Nr.
Involute interpolation	2/14	**6FC5251-0AF01-0AA0**
Laser switching signal, high-speed	2/22	**6FC5251-0AE74-0AA0**
Link axis	2/12	**6FC5251-0AD10-0AA0**
Machining channel, each additional	2/4	**6FC5251-0AA07-0AA0**
Machining channels (4) and axes (13) as a package	2/6	**6FC5251-0AD01-0AA0**
Machining package 5 axes	2/18	**6FC5251-0AA10-0AA0**
Machining package milling	2/18	**6FC5251-0AG00-0AA0**
Master-slave for drives	2/16	**6FC5251-0AC07-0AA0**
Master-value coupling and curve table interpolation	2/16	**6FC5251-0AD06-0AA0**
Measuring stage 2	2/18	**6FC5250-0AD00-0AA0**
Mode group (OMG), each additional	2/4	**6FC5251-0AD00-0AA0**
Multi-axis interpolation	2/14	**6FC5251-0AA16-0AA0**
Multi-channel step sequence programming	2/28	**6FC5253-0AF03-0AA0**
Online ISO dialect interpreter	2/26	**6FC5253-0AE00-0AA0**
Operation with tool management	2/36	**6FC5251-0AB12-0AA0**
Oscillation functions	2/20	**6FC5251-0AB04-0AA0**
Pair of synchronized axes (gantry axes)	2/16	**6FC5255-0AB00-0AA0**
Path length evaluation	2/44	**6FC5251-0AF05-0AA0**
Path switch signals/ cam controller	2/10	**6FC5251-0AB07-0AA0**
Path velocity-dependent analog output	2/20	**6FC5251-0AC04-0AA0**
PLC user memory expanded by 64 KB	2/48	**6FC5252-0AA03-0AA0**
Polynomial interpolation	2/14	**6FC5251-0AA15-0AA0**
Positioning axis/auxiliary spindle, each additional	2/6	**6FC5251-0AA04-0AA0**
PROFIBUS tool and process monitoring	2/50	**6FC5251-0AE71-0AA0**
Program preprocessing	2/10	**6FC5251-0AC02-0AA0**
Punching/nibbling functions	2/20	**6FC5251-0AC00-0AA0**
Quadrant error compensation, automatic	2/46	**6FC5251-0AB14-0AA0**
Safety Integrated	2/50	
• SI Basic		**6FC5250-0AG00-0AA0**
• SI Comfort		**6FC5250-0AG10-0AA0**
• SI axis/spindle		**6FC5250-0AG11-0AA0**
• SI axis/spindle package		**6FC5250-0AG12-0AA0**
Sag compensation, multi-dimensional	2/46	**6FC5251-0AB15-0AA0**
SINUMERIK NCK Runtime OA	2/22	**6FC5251-0AA20-0AA0**

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Overview of options for SINUMERIK 810D powerline/840Di/840D powerline

Option	Page	Bestell-Nr.
Setpoint exchange	2/10	**6FC5251-0AE76-0AA0**
Setpoint linkage for multiple NCUs	2/12	**6FC5251-0AF02-0AA0**
Spline interpolation for 3-axis machining	2/14	**6FC5251-0AF14-0AA0**
Spline interpolation for 5-axis machining	2/14	**6FC5251-0AA14-0AA0**
Synchronized actions stage 2	2/20	**6FC5251-0AD05-0AA0**
Synchronous spindle/multi-edge turning	2/14	**6FC5255-0AB01-0AA0**
Tangential control	2/10	**6FC5251-0AB11-0AA0**
Temperature compensation	2/46	**6FC5251-0AA13-0AA0**
3D tool radius compensation	2/34	**6FC5251-0AB13-0AA0**
Transformation Dynamic Swivel Tripod	2/18	**6FC5251-0AE60-0AA0**
Transformation Dynamic Swivel Tripod 6th axis	2/18	**6FC5251-0AE61-0AA0**

Option	Page	Bestell-Nr.
Transformation HEXAPOD 6 axes	2/18	**6FC5251-0AF75-0AA0**
Transformation pantograph kinematics 2 axes	2/18	**6FC5251-0AE45-0AA0**
Transformation TRICEPT 5 axes		
• Root	2/18	**6FC5251-0AE50-0AA0**
• DMS	2/18	**6FC5251-0AE51-0AA0**
• 6th axis	2/18	**6FC5251-0AE53-0AA0**
TRANSMIT/ peripheral surface transformation	2/18	**6FC5251-0AB01-0AA0**
Travel to fixed stop	2/10	**6FC5255-0AB02-0AA0**

Overview of options for SINUMERIK 802

Option	Page	Bestell-Nr.
Monitoring of tool life and workpiece count	2/36	**6FC5651-0AA01-0AA0**
PLC remote diagnostics	2/52	**6FC5653-0AA01-0AA0**
Teach In	2/32	**6FC5571-0AA01-0BF0**

Option	Page	Bestell-Nr.
Travel to fixed stop (without Force Control)	2/10	**6FC5655-0AA01-0AA0**
TRANSMIT/peripheral surface transformation	2/18	**6FC5651-0AA02-0AA0**
Turning simulation	2/30	**6FC5673-0AB01-0AF0**

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1.2 Positioning Modules

n Basic version v Option – Not possible	FM 353	FM 354	FM 357-2L FM 357-2LX FM 357-2H	SIMODRIVE 611 universal HRS
n Functionality (continued)				
Basic resolution				
• in mm	10^{-3}	10^{-3}	10^{-3}	10^{-3}
• in inch	10^{-4}	10^{-4}	10^{-4}	10^{-4}
• in degrees	10^{-2},10^{-4}	10^{-2},10^{-4}	10^{-2},10^{-4}	10^{-3}
Position-controlled mode	–	n	n	n
Controlled operation with stepper drives	n	–	n	–
Position control cycle in ms	–	2	2 ... 3	1 ... 4
Interpolation time in ms	2	2	6 ... 9	2 ... 20
Rotary axis	n	n	n	v
Automatic block search	n	n	n	v
Programmable acceleration	n	n	n	v
High-speed process signals				
• Inputs	4	4	12	1
• Outputs	4	4	8 1)	–
Options for assigning the high-speed inputs:				
• External start	n	n	n	n
• Enable input (Stop)	n	n	n	n
• External block change	n	n	n 2)	n
• Set actual value on-the-fly	n	n	n 2)	n
• On-the-fly measurement	n	n	n	n
• Home position switch	n	n	n	n
• Reversing cam	n	n	n	–
Options for assigning the high-speed outputs:				
• Position reached Stop	n	n	n	n
• Forward, back	n	n	n	–
• M function output M97/M98	n	n	n 2)	–
• Start enable	n	n	n 2)	–
• Direct output (for user)	n	n	n	–
• Cam output	–	–	n	–
n CNC programming				
Programming language (DIN 66025)	n	n	n	–
No. of traversing programs	199 3)	199 3)	n 5)	1
Program length in blocks, max.	100	100	n 5)	256
Block capacity per module, max.	n 3)	n 3)	n 5)	256 4)
Subroutine levels, max.	1	1	11	–
No. of subroutine passes, max.	250	250	≤ 9999	–
Max. number of different subroutines from one program	20	20	n 5)	–

1) Expandable using local bus segment.
2) Via synchronized actions.
3) Limited by program memory (16 KB).
4) With software version 10 or higher.
5) Limited by program memory (770 KB).

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n Basic version v Option – Not possible	FM 353	FM 354	FM 357-2L FM 357-2LX FM 357-2H	SIMODRIVE 611 universal HRS
n CNC programming (continued)				
Dimensions in mm, degrees, inch	n	n	n	n
Skip block	n	n	n	n
Subroutines	n	n	n	–
Endless loop with M18	n	n	n	With GOTO
M function, actual-value-specific	–	–	n	–
M function, time/acknowledgement-driven	n	n	n	–
Syntax check	n	n	n	n
n Communication				
Backup of user data on PG from				
• Hard disk, floppy disk	FM Param	FM Param	FM Param	v
• Memory card	–	–	n	–
I/O bus, S7-CPU ↔ FM	n	n	n	–
Software technology module for communication between CPU and positioning module	n	n	n	n
Multipoint interface (MPI)				
• Via SIMATIC S7-CPU	n	n	n	–
Networking with PROFIBUS DP via SIMATIC S7 CP 342-5 DP	v	v	v	n
PROFIBUS DP with PROFIdrive profile	–	–	n 1)	v
SIMODRIVE drive interface	–	±10 V	±10 V	±10 V
FM STEPDRIVE drive interface (stepping rate, direction signal)	n	–	n	–
Data transfer via memory card	–	–	n	–
n Operation				
Standard screens for OP7	n 2)	n 2)	–	–
Standard screens for OP17	n 2)	n 2)	n 2)	–
Standard screens for OP27	–	–	n 2)	–
Standard screens for TP 170B/MP 270B	–	–	n 2)	–
n Operating modes and machine functions				
Incremental dimension, relative	n	n	n	n
Jog mode	n	n	n	n
Control	n	n	n	v
MDI	n	n	n 3)	–
Automatic	n	n	n	n
Reference point approach	n	n	n	n
Follow-up mode	–	n	n	v
Parking axis	n	n	n	v
Simulation	n	n	n	–

1) Cannot be used when HT 6 is used in combination with FM 357-2H.
2) Included in the configuration package.
3) Only via startup screen.

n Basic version v Option – Not possible	FM 353	FM 354	FM 357-2L FM 357-2LX FM 357-2H	SIMODRIVE 611 universal HRS

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n Operating modes and machine functions (continued)

Length measurement	n	n	n	–
Retrigger reference point	n	n	n	–
Switch off enable input	n	n	n	–
Switch off software limit switch	n	n	n	–
On-the-fly measurement	n	n	n 1)	n
Switch off automatic drift compensation	–	n	n	–
Preset (set actual value)	n	n	n	–
Block search	n	n	–	n
Teach In	n	n	n 2)	v
Delete distance-to-go	n	n	n	–
Restart	n	n	n	–
Handling transformation	–	–	n 2)	–

n Compensations and reference points

20 tool compensations	n	n	n	–
Tool compensations 1 length + 1 wear (add./abs.)	n	n	n	–
Tool compensation, 3 lengths	–	–	n	–
Zero offset	n	n	n	n
Reference point offset	n	n	n	n
Automatic drift compensation for analog speed setpoints	–	n	n	–
Backlash compensation	n	n	n	n

n Axis monitoring functions

Software limit switch monitoring	n	n	n	n
Position monitoring	–	n	n	n
Standstill (zero-speed) monitoring	–	n	n	n
Rotation monitoring	n	–	n	–
Plausibility in data communication	n	n	n	–
Limit value	n	n	n	n
Following error	–	n	n	n
Cable break	–	n	n	n
Setpoint	n	n	n	–
Watchdog	n	n	n	–

1) Not with FM 357-2L.
2) With FM 357-2H.

n Basic version v Option – Not possible	**FM 353**	**FM 354**	**FM 357-2L FM 357-2LX FM 357-2H**	**SIMODRIVE 611 universal HRS**

n PLC area

FM can be used in SIMATIC S7-300	CPU 314 and higher	CPU 314 and higher	CPU 314C and higher	–

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SINUMERIK, SIMODRIVE, Lists (LIS1), 11/2006 Edition

PLC programming with HiGraph Add-on package for STEP 7	–	–	v	–
SIMATIC S7 technology modules	n	n	n	–
Digital inputs/outputs, max.	1024	1024	992	8 [1]
No. of I/O modules, max.	32	32	31	–
Bit memories	2048	2048	2048	–
Counter	256	256	256	–
Timers	256	256	256	–
Main memory in KB	48	48	48	–
Machining time				
• Bit commands, typ. in µs	0.1	0.1	0.1	–
• Word commands, typ. in µs	1.0	1.0	1.0	–
FB	512	512	512	–
FC	512	512	512	–
DB	511	511	511	–
Cyclic function block	n	n	n	–
Time-controlled function blocks	n	n	n	–
STEP 7 programming language	n	n	n	–
Programming: STL, SCL, LAD/FBD	n	n	n	–
Equipment for PLC programming and program testing	PG 7../PC	PG 7../PC	PG 7../PC	–
Memory card (flash EPROM)	CPU 314 CPU 315	CPU 314 CPU 315	CPU 314C CPU 315 CPU 316 CPU 318-2	–
n Diagnostic functions				
PLC status	n	n	n	–
Diagnostic buffer specifying error ID codes	n [2]	n [2]	n [2]	n
Servo alarms	n	n	n	n
Diagnostic alarms and messages	n	n	n	n
n Startup/parameterization				
PG 720/PG 740/PG 760 programming devices	v	v	v	n
PC with RS 232 C (V.24)	–	–	–	n
PC with MPI card	v	v	v	–
Windows-based startup tool	n	n	n	n
Configured using SIMATIC STEP 7	n	n	n	n
Startup functions	–	–	–	n
• Measurement functions	–	–	–	n

1) Expansion is possible via options.

2) The last 5 events.

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Machine and setting data 2

2.1 Explanations

Note

The Parameter Manual contains the abridged version of the information needed for commissioning a controller.

Not all of the details of the machine data could be specified due to a lack of space.

You can learn more about the functional contexts of the machine data if you follow the cross-reference.

In addition, the online help available on the controller provides all the detailed information on the machine data.

There is also a comprehensive description of the machine data and setting data on the DOCONCD:

/AMD/ Comprehensive Description of the Machine Data for 840D/840Di/810D

2.1.1 General information

Tables

There are various kinds of tables for the machine data and setting data.

For following tables are used for the following areas:

- General Machine Data
- Channelspecific Machine Data
- AxisSpecific Machine Data
- Setting Data

MD number	Name of identifier			Display filter	Reference
Unit	Name			Data type	Activation
Attributes					
System	Dimension	Default value	Minimum value	Maximum value	Protection

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Expanded tables

Machine data values that differ depending on the system can be found in the additional lines under the table header. In such cases, the fourth row represents the default values and the fifth and remaining rows represent deviating values for the specified systems. A minus symbol in a field indicates: The default value from row 4 applies.

In the "Protection" field, the entry "-1" indicates that the machine data for the specified system is not available.

Example:

10050	SYSCLOCK.CYCLE_TIME			N01, N05, N11	G3
s	Basic system clock cycle			DOUBLE	POWER ON
				SFCO	
-	-	0.004	0.000125	0.031	7/2
710-2a2c	-	0.002	0.001	0.008	-/-
840di-universal	-	0.002	0.001	0.008	-/-

For following table is used for the area:

- Display machine data

MD number	Name of identifier			Display filter	Reference
Unit	Name			Data type	Activation
				SW version	
System		Default value	Minimum value	Maximum value	Protection

For following table is used for the area:

- Drive machine data
- Machine data of the hydraulic module

MD number	Name of identifier				Display filter		Reference
	Name				Data type		Activation
System	Type	Rot/Lin	Unit	Default value	Minimum value	Minimum value	Protection

Explanations of the terms specified in the table fields can be found in the following.

Number

In the "Number" field, the number of the machine data (MD) and the setting data (SD) is specified. This number is displayed via HMI in a list on the screen.

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Name of identifier

In the field "Identifier", you see the name of the data. This name is displayed via HMI in a list on the screen.

Reference

The "Reference" field designates the document which contains the description of the context in which the machine data is used.

Reference is made to the following documents:

/FB1/	Function Manual of basic machines, supporting manuals: A2, A3, B1, B2, D1, F1, G2, H2, K1, K2, N2, P1, P3pl, P3sl, R1, S1, V1, W1, Z1
/FB2/	Function Manual of expanded functions, supporting manuals: A4, B3, B4, F3, H1, K3, K5, M1. M5, N2, N4, P2, P5, R2, S3, S7, T1, W3, W4
/FB3/	Function Manual of special functions, supporting manuals: F2, G1, G3, K6, M3, S9, T3, TE01, TE02, TE1, TE2, TE3, TE4, TE6, TE7, TE8, V2, W5
/FBA/	Function manual of drive functions, supporting manuals: DB1, DD1, DD2, DE1, DF1, DG1, DL1, DM1, DS1, DÜ1
/FBU/	Description of Functions SIMODRIVE 611 universal
/FBSI/	Description of Functions Safety Integrated
/IAC/	810D Installation & Start-Up Guide
/IAD/	840D/611D Installation & Start-Up Guide
/POS3/	POSMO SI/CD/CA User Manual
/FBHLA/	Description of Functions HLA module
/IAM/	Commissioning CNC Part 2 (HMI), supporting manuals: BE1, HE1, IM2, IM4
/FBO/	Configuring OP 030 Operator Interface
/FBT/	Description of Functions ShopTurn
/FBSP/	Description of Functions ShopMill
/BAS/	Operating/Programming ShopMill
/BAD/	Operator's Guide HMI Advanced
/BEM/	HMI Embedded Operator's Guide
/FBW/	Description of Functions Tool Management
/FBMA/	Description of Functions ManualTurn
/FBFA/	ISO Dialects for SINUMERIK Description of Functions
/FBSY/	Description of Functions Synchronized Actions
/PGA/	Programming Manual Job Planning

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Unit

The unit refers to the default setting of the machine data.

If the machine data is not based on a physical unit, then the field is marked with "-".

Note

For machine data of the Performance 2 [P2] control module, the unit(s) (together with a filter) are shown in row 2 column 1.

The following machine data influence the scaling of other machine data:

- MD_$MN_10220_SCALING_USER_DEF_MASK
- MD_$MN_10230_SCALING_FACTORS_USER_DEF
- MD_$MN_10240_SCALING_SYSTEM IS METRIC
- MD_$MN_SCALING_VALUE_INCH
- MD_$MN_IS_ROT_AX

Depending on MD 10240 SCALING_SYSTEM_IS_METRIC, the physical units differ as follows:

MD 10240 = 1	MD 10240 = 0
mm	inch
mm/min	inch/min
m/s2	inch/s2
m/s3	inch/s3
mm/rev.	inch/rev.

Name

The function of the data is described in the "Name" field.

Activation

In the "Activation" field, the following short designator specifies when the data takes effect after a change.

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po	POWER ON	"RESET" key on the front plate of the NCU module
cf	NEW_CONF	– The "Activate MD" softkey on the HMI – "RESET" key on the control unit – It is possible to modify block limits during program operation
re	RESET	– at end of program M2/M30 or – "RESET" key on the control unit
so	IMMEDI-ATELY	After entry of value

The levels of effectiveness have been listed above in order of priority.

Protection

The levels of protection 0 to7 are specified in the "Protection" field. The first number specifies the protection level for writing and the second number specifies the protection level for reading.

0 or 10: SIEMENS

1 or 11: OEM HIGH

2 or 12: OEM LOW

3 or 13: End user

4 or 14: Keyswitch setting

5 or 15: Key switch position 2

6 or 16: Key switch position 1

7 or 17: Key switch position 0

In expanded tables, the entry "-1" indicates that the machine data for the specified system is not available.

Complete protection:

The numbers in the range of 0 to 7 establish whether assigned data in the NC program and in MDA mode is writeable or readable.

Conditional protection:

The numbers in the range of 10 to 17 establish (only for user data (GUD)) whether the data in the NC program and in MDA mode is writeable or readable.

The operation and display are always under protection for both types of protection.

The locking for protection levels 0 to 3 can be cleared by setting the password,

and the locking for 4 through 7 can be cleared via a keyswitch position.

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The user only has access to information related to the current protection level and the levels below it. The machine data is assigned different protection levels by default.

The user can change the priority of the protection levels. Only protection levels of lower priority can be assigned to the machine data, setting data can also be assigned protection levels of higher priority.

The passwords are required for redefinition by the user.

Specify read access APR (Access protection read) and

write access APW (Access protection write).

The protection level follows the password in the form of a number.

Example: Changing rights in individual machine data

%_N_SGUD_DEFFile for global variables

;$PATH=/_N_DEF_DIR

REDEF $MA_CTRLOUT_SEGMENT_NR APR 2 APW 2

REDEF $MA_ENC_SEGMENT_NR APR 2 APW 2

REDEF $SN_JOG_CONT_MODE_LEVELTRIGGRD APR 2 APW 2

M30

The files become active when the next _N_INITIAL_INI is read in.

Display filter

A short designator for the filter setting is listed in the "Display filter" field. With the aid of this filter setting, it is possible to selectively reduce the number of the displayed machine/setting data of a section.

Display criteria:

EXP Expert mode:

- Active: the MD is assigned to the expert mode (display of MD)

Depending on the machine data section, there are different display filters. These short designations return in the operator interface to activate the filters.

The short designations of the display filter and their meanings are listed below for the individual machine data.

Drive machine data

D01 Controller data

D02 Monitors/Limitations

D03 Message data

D04 Status data

D05 Motor / Power module

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D06 Measuring system
D07 Safety Integrated
D08 Standard machine

General machine data

N01 Configuration / Scaling
N02 Memory configuration
N03 PLC machine data
N04 Drive control
N05 Status data/Diagnostics
N06 Monitors/Limitations
N07 Auxiliary functions
N08 Corrections/Compensations
N09 Technological functions
N10 Peripheral configuration
N11 Standard machine
N12 NC language ISO dialect

Channelspecific machine data

C01 Configuration
C02 Memory configuration
C03 Initial settings
C04 Auxiliary functions
C05 Velocities
C06 Monitors/Limitations
C07 Transformations
C08 Corrections/Compensations
C09 Technological functions
C10 Standard machine
C11 NC language ISO dialect

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Axis-specific machine data

A01 Configuration (including memory)

A02 Measuring system

A03 Machine geometry

A04 Speeds/Accelerations

A05 Monitors/Limitations

A06 Spindle

A07 Controller data

A08 Status data

A09 Corrections/Compensations

A10 Technological functions

O11 Standard machine

A12 NC language ISO dialect

Display machine data

You will find the following short designators for the machine display data:

H01 ShopMill

H02 ShopTurn

H03 ManualTurn

H04 Access levels

H05 Standard machine

Default value

The machine data is preset using this value. If default values for the channels differ, this is indicated by "/".

Some machine data are preset with different default values depending on the NCU used.

Note

Inputs via HMI are limited to ten digits plus comma and sign.

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System

The system is specified in the "System" field if the the machine data only applies to one system:

840D	840D systems
810D	810D system
Adv	HMI Advanced
Emb	HMI Embedded
OP30	OP030
MT	ManualTurn
SM	ShopMill
ST	ShopTurn

If the machine data applies to all systems, the field remains empty.

Other identifiers:

iajc	"i" stands for axes, "j" stands for channels, e.g. 6a2c = 6 axes, 2 channels
7x0- iaja	identifies solution line systems
x	1, 2, 3

Dimension

The number of elements of a machine data field is indicated in the field marked "Dimension".

The machine data can be accessed via the field index [n] or [n,AX<axis number>].

Value range

The input limits are specified in the fields "Minimum value", "Maximum value" and "Data type".

If no range of values is specified, the value in the "Data type" field determines the input limits and the field is marked with "***".

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Data type

In the "Data type" field, the short designators indicate the data types. The have the following meanings:

BOOLEAN	Machine data bit (1 or 0)
BYT E	Integer values (from -128 to 127)
DOUBLE	Real and integer values (from ± 4.19 x 10^{-307} to ± 1.67 x 10^{308})
DWORD	Integer values (from ± -2.147 x 10^{9} to ± 2.147 x 10^{9})
DWORD	Hex values (from 00000000 to FFFFFFFF)
STRING	Character string (max. 16 characters) consisting of capital letters with digits and underscore
UNSIGNED WORD	Integer values (from 0 to 65536)
SIGNED WORD	Integer values (from -32768 to 32767)
UNSIGNED DWORD	Integer values (from 0 to 4294967300)
SIGNED DWORD	Integer values (from -2147483650 to 2147483649)
WORD	Hex values (from 0000 to FFFF)
FLOAT DWORD	Real values (from ± 8.43 x 10^{-37} to ± 3.37 x 10^{38})
UBYTE	Integer values (from 0 to -255)
LONG	Integer values (from 4294967296 to -4294967295)

Rot/Lin

The type of motor to which the machine data applies is indicated in the "Rot/Lin" field.

Rot	Rotary motors
Lin	Linear motors

Type

The abbreviations of the following drive types are given in the "Type" field:

MSD for Main Spindle Drive

SLM for Synchronous Linear Motor

FD for Feed Drive

SW version

The "SW version" field shows which software version the machine data and setting data apply to.

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Attributes

Short designators are listed for some machine data in the "Attributes" field. The have the following meanings:

- NBUP no Back Up: The data is not entered in the data backup
- ODLD only Download: Data can only be loaded from a file
- READ read Only: Data can only be read
- NDLD no Download: Data cannot be loaded from the file
- SFCO safety Configuration: MD for Safety Integrated System
- SCAL scaling Alarm: Alarm regarding design
- LINK Link Description: MD describes NCU link
- CTEQ Container Equal: MD must be identical in all NCUs that are linked
- CTDE Container Description: MD describes axis container

2.1.2 Overview of machine and setting data

The machine data and setting data are divided into the following areas:

Range	Description
from 1000 to 1799	Machine data for SIMODRIVE drives
from 5000 to 6000	Machine data of the hydraulic module
from 9000 to 9999	Display machine data
from 10000 to 18999	General machine data
from 19000 to 19999	Reserved
from 20000 to 28999	Channelspecific machine data
from 29000 to 29999	Reserved
from 30000 to 38999	AxisSpecific Machine Data
from 39000 to 39999	Reserved
from 41000 to 41999	General setting data
from 42000 to 42999	Channel-specific setting data
from 43000 to 43999	Axis-specific setting data
from 50000 to 60999	Reserved
from 61000 to 61999	General machine data for compile cycles
from 62000 to 62999	Channel-specific machine data for compile cycles
from 63000 to 63999	Axis-specific machine data for compile cycles

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Data IDs

With HMI, the designation of the machine data is displayed. The internal "designator" of the data requires additional IDs. If machine data is changed by programming or if it is read-in via the serial interface, these IDs must also be specified.

Data areas

$MM_	Display machine data
$MN_/$SN_	General machine data/setting data
$MC_/$SC_	Channel-specific machine data/setting data
$MA_/$SA_	Axis-specific setting data/machine data
$MD_	Drive machine data

The meanings are as follows:

$	System variables
M (GND)	Machine data
S	Setting data
M, N, C, A, D	Subarea (second letter)

Axis data is addressed via the axis name. The axis name can be the internal axis designator (AX1, AX2 ... AX8) or the designator specified by MD 10000: AXCONF_NAME_TAB.

Example:
$MA_JOG_VELO[Y1]=2000
The JOG speed of axis Y1 is 2000 mm/min.

If the contents of the machine data is a STRING (e.g. X1) or a hexadecimal value (e.g. H41), then the contents must be between " ' " (e.g. 'X1' or 'H41').

Example:
$MN_DRIVE_INVERTER_CO[0]='H14'

FD module 9/18 A on slot 1 of the drive bus.

For addressing different contents of the machine data, the specifications must be in brackets.

Example:
$MA_FIX_POINT_POS**[0,X1]**=500.000

The first fixed point position (0=1, 1=2, 2=3, etc.) of axis X1 is 500

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Example:
$MN_AUXFU_GROUP_SPEC[2]='H41'
Output time of the auxiliary functions of the third auxiliary function group.

$MN_AXCONF_MACHAX_NAME_TAB[0]='X1'
The name of the first machine axis is X1.

$MA_REF_SET_POS[0,X1]=100.00000
The first reference point value of axis X1 is 100 mm.

Assignment of channel-specific machine data:

CHANDATA (1)	Assignment of channel 1
$MC_CHAN_NAME='CHAN1'	Channel name for channel 1
$MC_AXCONF_GEOAX_NAME_TAB[1]='Y'	The name of the second geometry axis in channel 1 is Y
R10 = 33.75	R10 from channel 1
...	
CHANDATA (2)	Assignment of channel 2
$MC_CHAN_NAME='CHAN2'	Channel name for channel 2
...	
R10 = 96.88	R10 from channel 2
...	

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2.2 Drive Machine Data

Number	**Identifier**			Display filter	Reference
Unit	Name			Data type	Active
				SW	
System		Default value	Minimal value	Maximum value	Protection

9000	**LCD_CONTRAST**			H05	**QV:** A2
-	Contrast			BYTE	Power On
				-	
Adv, Emb		Emb: 7	0	15	3/4

9001	**DISPLAY_TYPE**			H05	**QV:** A2
-	Type of operator panel			BYTE	Power On
Adv, Emb		Emb: 1	0	2	0/0

9002	**DISPLAY_MODE**				**QV:** A2
-	External monitor			BYTE	Power On
				1	
			0	2	3/4

9003	**FIRST_LANGUAGE**			H05	**QV:** A2
-	Foreground language			BYTE	Power On
				1.1	
Emb		Emb: 1	1	2	3/4

9004	**DISPLAY_RESOLUTION**			H05	**QV:** A2
-	Display resolution			BYTE	Immediately
				-	
Adv, Emb		Emb: 3	0	5	3/4

9004	**DISPLAY_RESOLUTION**			H05	**QV:** A2
-	Display resolution			BYTE	Power On
				-	
Adv, Emb		Emb: 3	0	5	3/4

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9005	**PRG_DEFAULT_DIR**			H05	**QV:** A2
-	Basic setting program directory			BYTE	Immediately
				-	
Emb		Emb: 1	1	5	3/4

9006	**DISPLAY_BLACK_TIME**			H05	**QV:** A2
-	Time for screen saver			BYTE	Power On
				SW2	
Emb		Emb: 15	0	60	3/4

9007	**TABULATOR_SIZE**			H05	**QV:** A2
-	Tab length			BYTE	Immediately
				SW2	
Emb		Emb: 4	0	30	3/4

9008	**KEYBOARD_TYPE**			H05	**QV:** A2
-	Type of keyboard			BYTE	Power On
				SW3.6	
Adv, Emb		Emb: 0	0	1	3/4

9009	**KEYBOARD_STATE**			H05	**QV:** A2
-	Keyboard shift behavior at booting			BYTE	Power On
				SW3.6	
Adv, Emb		Emb: 2	0	2	3/4

9010	**SPIND_DISPLAY_RESOLUTION**			H05	**QV:** A2
-	Display resolution for spindle values			BYTE	Immediately
				SW 4	
Adv			0	5	3/4

9011	**DISPLAY_RESOLUTION_INCH**			H05	**QV:** A2
-	Disp. resolution for INCH meas. system			BYTE	Immediately
				SW 5.1	
Adv, Emb		Emb: 4	0	6	3/4

9011	**DISPLAY_RESOLUTION_INCH**			H05	**QV:** A2
-	Disp. resolution for INCH meas. system			BYTE	Power On
				SW 5.1	
Adv, Emb		Emb: 4	0	6	3/4

9012	**ACTION_LOG_MODE**			H05	**QV:** IM1, IM3, IM4
-	Set action mode for trip recorder			INTEGER	Power On
				5.2	
Adv, Emb		Emb: 254	0	0xFFFF	1/1

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9013	SYS_CLOCK_SYNC_TIME			H05	QV:
-	Synchronization time MMC/HMI time with PLC			REAL	Power On
Emb		Emb: 0	0	199	0/0

9014	USE_CHANNEL_DISPLAY_DATA			H05	QV: FBT, FBSP, EMB, ADV
-	Use channel-specific display MDs			INTEGER	Immediately
				6.3	
Adv, Emb		Emb: 0	0	1	3/4

9016	SWITCH_TO_AREA			H05	QV: IAM, BE1
-	Default ramp-up menu selectable			INTEGER	Power On
				SW 5, Erw. 6.3	
Emb		Emb: -1	-1	10000	3/4

9020	TECHNOLOGY			H05	QV: A2, FBT
-	Technology for NC prog. and simulation			BYTE	Power On
				SW4.3, ST 6.1 SW5.1 MMC103	
Adv, Emb		Emb: 1	0	2	3/4

9021	LAYOUT_MODE			H05	QV: IM4
-	HMI design			BYTE	Power On
				6.3	
Adv, Emb		Emb: 0	1	1	3/4

9021	LAYOUT_MODE			H05	QV: IM4
-	HMI design			INTEGER	Power On
				6.3	
Adv, Emb		Emb: 0	0	0	3/4

9025	DISPLAY_BACKLIGHT				QV: IM2
-	Brightness level background lighting			BYTE	Power On
				5.3	
			0	31	3/4

9026	TEACH_MODE				QV: IM2
-	Teach mode to be activated			REAL	Power On
				5.3	
			0	0	3/4

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9027	**NUM_AX_SEL**				**QV:** IM2
-	Number of axis groups for traversing keys			REAL	Power On
				5.3	
			0	4	3/4

9030	**EXPONENT_LIMIT**			H05	**QV:** A2
-	Digits for represent. without exponent			BYTE	Power On
				SW 5.1	
Emb		Emb: 6	0	20	3/4

9031	**EXPONENT_SCIENCE**			H05	**QV:** A2
-	Exponent in technical representation			BYTE	Power On
				SW 5.1	
Emb		Emb: 1	0	1	3/4

9032	**HMI_MONITOR**			H05	**QV:** FBT, FBSP, EMB, ADV
-	Define PLC data for HMI screen info			STRING	Power On
				6.2	
Adv, Emb		Emb: 0	0	0	2/4

9033	**MA_DISPL_INV_DIR_SPIND_M3**			H05	**QV:** ADV
-	Display of spindle direction of rotation			INTEGER	Immediately
				6.2	
Adv			0	0x7FFFFFFF	3/4

9034	**MA_NUM_DISPLAYED_CHANNELS**			H05	**QV:** BAD
-	Number of machine channels displayed			REAL	Power On
				6.4	
Adv			0	2	3/4

9050	**STARTUP_LOGO**			H05	**QV:** FBT, FBSP, EMB, ADV
-	Activate OEM boot screen			BYTE	Power On
				6.2	
Adv, Emb		Emb: 0	0	1	1/4

9052	**SHOW_CHANNEL_SPANNING_STATE**			H05	**QV:** FBT, FBSP
-	Change cross-channel status display			BYTE	Power On
				6.3	
Adv, Emb		Emb: 0	0	1	2/4

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9053	**PLC_SYMBOL_SORT**			H05	**QV:** IM4
-	Sorting algorithm for PLC symbols			INTEGER	Immediately
				6.3	
Adv, Emb		Emb: 0	0	4	3/4

9054	**PLC_SYMBOL_FILTER**			H05	**QV:** BAD, BEM
-	Filter settings for PLC symbols			REAL	Immediately
				6.3	
Adv, Emb		Emb: 0	0	0xFFFF	3/4

9054	**PLC_SYMBOL_FILTER**			H05	**QV:** BAD, BEM
-	Filter settings for PLC symbols			REAL	Immediately
				6.3	
Adv, Emb		Emb: 0	0	0xFFFF	3/4

9055	**PLC_ALARM_PICTURE**			H05	**QV:** IM4
-	Select acknowledgement symb. of PLC alarms			INTEGER	Power On
				6.3	
Adv, Emb		Emb: 1	-1	1	3/4

9056	**ALARM_ROTATION_CYCLE**			H05	**QV:**
-	Rotation cycle time for alarm display			INTEGER	Immediately
				6.4	
Emb		Emb: 0	0	10000	3/4

9180	**USER_CLASS_READ_TCARR**			H04, H05	**QV:** A2
-	Protect. level read tlh offsets			BYTE	Immediately
				6.1	
Emb		Emb: 7	0	7	3/4

9181	**USER_CLASS_WRITE_TCARR**			H04, H05	**QV:** A2
-	Protect. level write tlh offsets			BYTE	Immediately
				6.1	
Emb		Emb: 7	0	7	3/4

9182	**USER_CLASS_INCH_METRIC**			H04, H05	**QV:** EMB
-	Protect. level inch-metric switchover			BYTE	Immediately
				6.2	
Emb		Emb: 7	0	7	3/4

9183	**USER_WRITE_TOOLFRAME**			H04, H05	**QV:** A2
-	Write toolholder protection level			BYTE	Immediately
				6.4	
Adv, Emb		Emb: 7	0	7	3/4

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9184	**USER_WRITE_PARTFRAME**			H04, H05	**QV:** A2
-	Write tool ref. point protection level			BYTE	Immediately
				6.4	
Adv, Emb		Emb: 7	0	7	3/4

9185	**USER_WRITE_WPFRAME**			H04, H05	**QV:** A2
-	Write workpiece ref. point protec. level			BYTE	Immediately
				6.4	
Adv, Emb		Emb: 7	0	7	3/4

9186	**USER_WRITE_CYCFRAME**			H04, H05	**QV:** A2
-	Write cycle frame protection level			BYTE	Immediately
				6.4	
Adv, Emb		Emb: 7	0	7	3/4

9187	**USER_WRITE_TRAFRAME**			H04, H05	**QV:** A2
-	Write transformation frame protec. level			BYTE	Immediately
				6.4	
Adv, Emb		Emb: 7	0	7	3/4

9188	**USER_WRITE_EXTFRAME**			H04, H05	**QV:** A2
-	Write external WO protection level			BYTE	Immediately
				6.4	
Adv, Emb		Emb: 7	0	7	3/4

9200	**USER_CLASS_READ_TOA**			H04, H05	**QV:** A2
-	Protect. level read tool offsets			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9201	**USER_CLASS_WRITE_TOA_GEO**			H04, H05	**QV:** A2
-	Protection level write tool geometry			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9202	**USER_CLASS_WRITE_TOA_WEAR**			H04, H05	**QV:** A2
-	Protection level write tool wear data			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9203	**USER_CLASS_WRITE_FINE**			H04, H05	**QV:** A2
-	Protection level fine			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

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9204	**USER_CLASS_WRITE_TOA_SC**			H04, H05	**QV:** A2
-	Change prot.level for tool sum offsets			BYTE	Immediately
				SW 5	
Adv			0	7	3/4

9205	**USER_CLASS_WRITE_TOA_EC**			H04, H05	**QV:** A2
-	Prot. level change tool setup offsets			BYTE	Immediately
				SW 5	
Adv			0	7	3/4

9206	**USER_CLASS_WRITE_TOA_SUPVIS**			H04, H05	**QV:** A2
-	Prot. level change tool mon. limits			BYTE	Immediately
				SW 5	
Adv, Emb		Emb: 7	0	7	3/4

9207	**USER_CLASS_WRITE_TOA_ASSDNO**			H04, H05	**QV:** A2
-	Modify assigned DNo of a tool cutting edge			BYTE	Immediately
				SW 5	
Adv			0	7	3/4

9208	**USER_CLASS_WRITE_MAG_WGROUP**			H04, H05	**QV:** A2
-	Modify wear group mag. pos./magazine			BYTE	Immediately
				SW 5	
Adv			0	7	3/4

9209	**USER_CLASS_WRITE_TOA_ADAPT**			H04, H05	**QV:** A2
-	Protect. level write tool adaptat. data			BYTE	Immediately
				SW5	
Adv, Emb		Emb: 7	0	7	3/4

9210	**USER_CLASS_WRITE_ZOA**			H04, H05	**QV:** A2
-	Write protect. level of sett. zero offs.			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9211	**USER_CLASS_READ_GUD_LUD**			H04, H05	**QV:** A2
-	Read protection level of user variables			BYTE	Immediately
				SW6.1	
Adv, Emb		Emb: 7	0	7	3/4

9213	**USER_CLASS_OVERSTORE_HIGH**			H04, H05	**QV:** A2
-	Protection level extended overstore			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

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9214	USER_CLASS_WRITE_PRG_CONDIT			H04, H05	QV: A2
-	Protection level program control			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9215	USER_CLASS_WRITE_SEA			H04, H05	QV: A2
-	Protection level write setting data			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9216	USER_CLASS_READ_PROGRAM			H04, H05	QV: A2
-	Read protection level of part program			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9217	USER_CLASS_WRITE_PROGRAM			H04, H05	QV: A2
-	Write part program protection level			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9218	USER_CLASS_SELECT_PROGRAM			H04, H05	QV: A2
-	Protection level program selection			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9219	USER_CLASS_TEACH_IN			H04, H05	QV: A2
-	Protection level TEACH IN			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9220	USER_CLASS_PRESET			H04, H05	QV: A2
-	Protection level PRESET			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9221	USER_CLASS_CLEAR_RPA			H04, H05	QV: A2
-	Protection level delete R variables			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

9222	USER_CLASS_WRITE_RPA			H04, H05	QV: A2
-	Protection level write R variables			BYTE	Immediately
				-	
Adv, Emb		Emb: 7	0	7	3/4

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9223	**USER_CLASS_SET_V24**			H04, H05	**QV:** A2
-	Prot. level RS-232-C parameterization			BYTE	Immediately
				-	
Emb		Emb: 7	0	7	3/4

9224	**USER_CLASS_READ_IN**			H04, H05	**QV:** A2
-	Protect. level read in data			BYTE	Immediately
				-	
Emb		Emb: 7	0	7	3/4

9225	**USER_CLASS_READ_CST**			H04, H05	**QV:** A2
-	Protect. level standard cycles			BYTE	Immediately
				SW2	
Emb		Emb: 7	0	7	3/4

9226	**USER_CLASS_READ_CUS**			H04, H05	**QV:** A2
-	Protect. level user cycles			BYTE	Immediately
				SW2	
Emb		Emb: 7	0	7	3/4

9227	**USER_CLASS_SHOW_SBL2**			H04, H05	**QV:** A2
-	Skip single block2 (SBL2)			BYTE	Immediately
				SW3.5	
Emb		Emb: 7	0	7	3/4

9228	**USER_CLASS_READ_SYF**			H04, H05	**QV:** A2
-	Access level for selecting directory SYF			BYTE	Immediately
				SW4.2	
Emb		Emb: 7	0	7	3/4

9229	**USER_CLASS_READ_DEF**			H04, H05	**QV:** A2
-	Access level for selecting directory DEF			BYTE	Immediately
				SW4.2	
Emb		Emb: 7	0	7	3/4

9230	**USER_CLASS_READ_BD**			H04, H05	**QV:** A2
-	Access level for selecting directory BD			BYTE	Immediately
				SW4.2	
Emb		Emb: 3	0	7	3/4

9231	**USER_CLASS_WRITE_RPA_1**			H04, H05	**QV:** A2
-	Protection level for the first RPA area			BYTE	Immediately
				SW5.1	
Adv			0	7	3/4

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9232	**USER_BEGIN_WRITE_RPA_1**			H04, H05	**QV:** A2
-	Beginning of the first RPA area			WORT	Immediately
				SW5.1	
Adv			0	0	3/4

9233	**USER_END_WRITE_RPA_1**			H04, H05	**QV:** A2
-	End of the first RPA area			WORT	Immediately
				SW5.1	
Adv			0	0	3/4

9234	**USER_CLASS_WRITE_RPA_2**			H04, H05	**QV:** A2
-	Protection level for the second RPA area			BYTE	Immediately
				SW5.1	
Adv			0	7	3/4

9235	**USER_BEGIN_WRITE_RPA_2**			H04, H05	**QV:** A2
-	Beginning of the second RPA area			WORT	Immediately
				SW5.1	
Adv			0	0	3/4

9236	**USER_END_WRITE_RPA_2**			H04, H05	**QV:** A2
-	End of the second RPA area			WORT	Immediately
				SW5.1	
Adv			0	0	3/4

9237	**USER_CLASS_WRITE_RPA_3**			H04, H05	**QV:** A2
-	Protection level for the third RPA area			BYTE	Immediately
				SW5.1	
Adv			0	7	3/4

9238	**USER_BEGIN_WRITE_RPA_3**			H04, H05	**QV:** A2
-	Beginning of the third RPA area			WORT	Immediately
				SW5.1	
Adv			0	0	3/4

9239	**USER_END_WRITE_RPA_3**			H04, H05	**QV:** A2
-	End of the third RPA area			WORT	Immediately
				SW5.1	
Adv			0	0	3/4

9240	**USER_CLASS_WRITE_TOA_NAME**			H04, H05	**QV:** A2
-	Change tool designation and duplo			BYTE	Immediately
				5	
Adv			0	7	3/4

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9241	**USER_CLASS_WRITE_TOA_TYPE**			H04, H05	**QV:** A2
-	Change tool type			BYTE	Immediately
				5	
Adv			0	7	3/4

9242	**MA_STAT_DISPLAY_BASE**			H05	**QV:** K2
-	Number basis display articul. pos. STAT			WORT	Immediately
				6.1	
Adv, Emb		Emb: 0	0	16	3/4

9243	**MA_TU_DISPLAY_BASE**			H05	**QV:** K2
-	Number basis display rot. axis pos. TU			WORT	Immediately
				6.1	
Adv, Emb		Emb: 0	0	16	3/4

9244	**MA_ORIAXES_EULER_ANGLE_NAME**			H05	**QV:** K2
-	Orientation axes as Euler angle			WORT	Immediately
				6.1	
Adv			0	1	3/4

9245	**MA_PRESET_FRAMEIDX**			H05	**QV:** K2
-	Scratching value storage + preset.act.val.			WORT	Immediately
				6.1	
Adv			1	10	3/4

9246	**USER_CLASS_SYS_ZERO_OFF**			H04, H05	**QV:** A2
-	Access level write system frames			BYTE	Immediately
				Adv.: 6.03, Emb.: 6.02	
Adv, Emb		Emb: 7	0	7	2/2

9247	**USER_CLASS_BASE_ZERO_OFF_PA**			H04, H05	**QV:** K2
-	Access level basic offset PA			BYTE	Immediately
				5.3	
Adv, Emb		Emb: 7	0	7	2/2

9248	**USER_CLASS_BASE_ZERO_OFF_MA**			H04, H05	**QV:** IAM, IM1
-	Access level basic offset MA			BYTE	Immediately
				5.3	
Adv, Emb		Emb: 7	0	7	2/2

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9249	**USER_CLASS_VERT_MODE_SK**			H04, H05	**QV:** K2
-	Protect. level vertical SKs of area SKs			DOUBLE	Immediately
				SW6.1	
Emb		Emb: 2004318071	0	0x77777777	3/4

9251	**USER_CLASS_TM_SKTLLIST**			H04, H05	**QV:** FBW
-	Display of tool list			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9252	**USER_CLASS_TM_SKTOOLLOAD**			H04, H05	**QV:** FBW
-	Protection level for loading tools			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9253	**USER_CLASS_TM_SKTOOLUNLOAD**			H04, H05	**QV:** FBW
-	Prot. level for unloading tools			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9254	**USER_CLASS_TM_SKTOOLMOVE**			H04, H05	**QV:** FBW
-	Protection level for tool relocation			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9256	**USER_CLASS_TM_SKMGLREPR2**			H04, H05	**QV:** FBW
-	Prot. level for display of 2nd mag. list			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9257	**USER_CLASS_TM_SKMGLREPR3**			H04, H05	**QV:** FBW
-	Prot. level for display of 3rd mag. list			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9258	**USER_CLASS_TM_SKNCNEWTOOLE**			H04, H05	**QV:** FBW
-	Prot.level for creating new cuttinng edges			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9259	**USER_CLASS_TM_SKNCDELTOOL**			H04, H05	**QV:** FBW
-	Protection level for deleting tools			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

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9260	**USER_CLASS_TM_SKMGBUFFER**			H04, H05	**QV:** FBW
-	Prot. level for buffer on/off			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9261	**USER_CLASS_TM_SKMGFIND**			H04, H05	**QV:** FBW
-	Protection level for search			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9262	**USER_CLASS_TM_SKMGLISTPOS**			H04, H05	**QV:** FBW
-	Protection level for positioning			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9263	**USER_CLASS_TM_SKMGNEXT**			H04, H05	**QV:** FBW
-	Prot. level f. paging to next magazine			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9264	**USER_CLASS_TM_SKTLNEWTOOL**			H04, H05	**QV:** FBW
-	Protection level for creating tools			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9265	**USER_CLASS_TM_SKTLLREPR1**			H04, H05	**QV:** FBW
-	Prot. level for display of 1st mag. list			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9266	**USER_CLASS_TM_SKTLLREPR2**			H04, H05	**QV:** FBW
-	Prot. level for display of 2nd tool list			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9267	**USER_CLASS_TM_SKTLLREPR3**			H04, H05	**QV:** FBW
-	Prot. level for display of 3rd tool list			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9269	**USER_CLASS_TM_SKFINDPLACE**			H04, H05	**QV:** FBW
-	Empty softkey loc., display tool list			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

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9270	**USER_CLASS_TM_SKACTPLACE**			H04, H05	**QV:** FBW
-	Prot. level f. load. to current location			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9271	**USER_CLASS_TM_SKLDTOOLDAT**			H04, H05	**QV:** FBW
-	Check and edit the tool data			BYTE	Power On
				SW4.1	
Emb		Emb: 7	0	7	3/4

9272	**USER_CLASS_APPLICATION**			H04, H05	**QV:** A2
-	Protec. level for operating area selection			BYTE	Immediately
				6.4	
Emb		Emb: 0	0	7	3/4

9273	**USER_CLASS_APP_PARAMETER**			H04, H05	**QV:**
-	Protection level for softkeys in parameter			BYTE	Immediately
				7.1	
Emb		Emb: 0	0	7	3/4

9300	**V24_USER_XON**			H05	**QV:** K4
-	User: X on character			REAL	Immediately
				-	
Emb		Emb: 17	0	0xFF	3/4

9301	**V24_USER_XOFF**			H05	**QV:** K4
-	User: X off character			REAL	Immediately
				-	
Emb		Emb: 19	0	0xFF	3/4

9302	**V24_USER_EOF**			H05	**QV:** K4
-	User: end-of-transmission character			REAL	Immediately
				-	
Emb		Emb: 26	0	0xFF	3/4

9303	**V24_USER_CONTROLS**			H05	**QV:** K4
-	User: special bits			REAL	Immediately
				-	
Emb		Emb: 76	0	0x3FF	3/4

9303	**V24_USER_CONTROLS**			H05	**QV:** K4
-	User: special bits			REAL	Immediately
				-	
Emb		Emb: 76	0	0x3FF	3/4

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9304	**V24_USER_RTS**			H05	**QV:** K4
-	User: line-controlled			BYTE	Immediately
				-	
Emb		Emb: 0	0	1	3/4

9305	**V24_USER_BAUD**			H05	**QV:** K4
-	User: baud rate			BYTE	Immediately
				-	
Emb		Emb: 5	0	8	3/4

9306	**V24_USER_DATABITS**			H05	**QV:** K4
-	User: data bits			BYTE	Immediately
				-	
Emb		Emb: 1	0	1	3/4

9307	**V24_USER_PARITY**			H05	**QV:** K4
-	User: parity bits			BYTE	Immediately
				-	
Emb		Emb: 0	0	2	3/4

9308	**V24_USER_STOPBIT**			H05	**QV:** K4
-	User: stop bits			BYTE	Immediately
				-	
Emb		Emb: 0	0	1	3/4

9309	**V24_USER_LINE**			H05	**QV:** K4
-	User: RS-232 interface (COM1/COM2)			BYTE	Immediately
				SW5	
Emb		Emb: 1	1	2	3/4

9310	**V24_PRINTER_XON**			H05	**QV:** K4
-	Printer: X on character			REAL	Immediately
				-	
Emb		Emb: 17	0	0xFF	3/4

9311	**V24_PRINTER_XOFF**			H05	**QV:** K4
-	Printer: X off character			REAL	Immediately
				-	
Emb		Emb: 19	0	0xFF	3/4

9312	**V24_PRINTER_EOF**			H05	**QV:** K4
-	Printer: end-of-transmission character			REAL	Immediately
				-	
Emb		Emb: 12	0	0xFF	3/4

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9313	**V24_PRINTER_CONTROLS**			H05	**QV:** K4
-	Printer: special bits			REAL	Immediately
				-	
Emb		Emb: 76	0	0x3FF	3/4

9313	**V24_PRINTER_CONTROLS**			H05	**QV:** K4
-	Printer: special bits			REAL	Immediately
				-	
Emb		Emb: 76	0	0x3FF	3/4

9314	**V24_PRINTER_RTS**			H05	**QV:** K4
-	Printer: line-controlled			BYTE	Immediately
				-	
Emb		Emb: 0	0	1	3/4

9315	**V24_PRINTER_BAUD**			H05	**QV:** K4
-	Printer: baud rate			BYTE	Immediately
				-	
Emb		Emb: 5	0	8	3/4

9316	**V24_PRINTER_DATABITS**			H05	**QV:** K4
-	Printer: data bits			BYTE	Immediately
				-	
Emb		Emb: 1	0	1	3/4

9317	**V24_PRINTER_PARITY**			H05	**QV:** K4
-	Printer: parity bits			BYTE	Immediately
				-	
Emb		Emb: 0	0	2	3/4

9318	**V24_PRINTER_STOPBIT**			H05	**QV:** K4
-	Printer: stop bits			BYTE	Immediately
				-	
Emb		Emb: 0	0	1	3/4

9319	**V24_PRINTER_LINE**			H05	**QV:** K4
-	Printer: RS-232 interface (COM1/COM2)			BYTE	Immediately
				-	
Emb		Emb: 1	1	2	3/4

9320	**V24_PG_PC_XON**			H05	**QV:** K4
-	PG: X on character			REAL	Immediately
				-	
Emb		Emb: 17	0	0xFF	3/4

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9321	**V24_PG_PC_XOFF**			H05	**QV:** K4
-	PG: X off character			REAL	Immediately
				-	
Emb		Emb: 19	0	0xFF	3/4

9322	**V24_PG_PC_EOF**			H05	**QV:** K4
-	PG: end-of-transmission character			REAL	Immediately
				-	
Emb		Emb: 26	0	0xFF	3/4

9323	**V24_PG_PC_CONTROLS**			H05	**QV:** K4
-	PG: special bits			REAL	Immediately
				-	
Emb		Emb: 144	0	0x3FF	3/4

9323	**V24_PG_PC_CONTROLS**			H05	**QV:** K4
-	PG: special bits			REAL	Immediately
				-	
Emb		Emb: 144	0	0x3FF	3/4

9324	**V24_PG_PC_RTS**			H05	**QV:** K4
-	PG: line-controlled			BYTE	Immediately
				-	
Emb		Emb: 0	0	1	3/4

9325	**V24_PG_PC_BAUD**			H05	**QV:** K4
-	PG: baud rate			BYTE	Immediately
				-	
Emb		Emb: 5	0	8	3/4

9326	**V24_PG_PC_DATABITS**			H05	**QV:** K4
-	PG: data bits			BYTE	Immediately
				-	
Emb		Emb: 1	0	1	3/4

9327	**V24_PG_PC_PARITY**			H05	**QV:** K4
-	PG: parity bits			BYTE	Immediately
				-	
Emb		Emb: 0	0	2	3/4

9328	**V24_PG_PC_STOPBIT**			H05	**QV:** K4
-	PG: stop bits			BYTE	Immediately
				-	
Emb		Emb: 0	0	1	3/4

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9329	**V24_PG_PC_LINE**			H05	**QV:** K4
-	PG: RS-232 interface (COM1/COM2)			BYTE	Immediately
				-	
Emb		Emb: 1	1	2	3/4

9400	**TOOL_REF_GEO_AXIS1**			H05	**QV:** BA
-	Abs.dim.f.tool length offset f.geoaxis 1			DOUBLE	Immediately
				-	
Emb		Emb: 0	0	0	3/4

9401	**TOOL_REF_GEO_AXIS2**			H05	**QV:** BA
-	Abs.dim.f.tool length offset f.geoaxis 2			DOUBLE	Immediately
				-	
Emb		Emb: 0	0	0	3/4

9402	**TOOL_REF_GEO_AXIS3**			H05	**QV:** BA
-	Abs.dim.f.tool length offset f.geoaxis 3			DOUBLE	Immediately
				-	
Emb		Emb: 0	0	0	3/4

9410	**TM_LOAD_PLACE**			H05	**QV:** BA
-	Number of load location			INTEGER	Power On
				-	
Emb		Emb: 0	0	0	3/4

9411	**TM_NUM_MAG**			H05	**QV:** BA
-	Number of work magazine			INTEGER	Power On
				-	
Emb		Emb: 0	0	0	3/4

9412	**TM_DEFAULT_TOOLSIZE**			H05	**QV:** FBW
-	Preset value for tool size			REAL	Immediately
				SW4.1	
Emb		Emb: 1111	1111	7777	3/4

9414	**TM_KIND_OF_TOOLMANAGEMENT**			H01, H02, H05	**QV:** FBW
-	Type of tool management representation			BYTE	Power On
				SW5	
SM, ST, Emb		Emb: 0, SM: 1, ST: 1	0	1	3/4

9415	**TM_DEFAULT_TOOLPLACESPEC**			H05	**QV:** FBW
-	Default value for location type			BYTE	Immediately
				SW4.2	
Emb		Emb: 1	1	99	3/4

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9416	TM_DEFAULT_TOOLTYPE			H05	QV: FBW
-	Preset value for type of location			REAL	Immediately
				SW4.1	
Emb		Emb: 120	100	900	3/4

9417	TM_DEFAULT_TOOLSTATE			H05	QV: FBW
-	Preset value for tool status loading			INTEGER	Immediately
				SW4.1	
Emb		Emb: 2	0	255	3/4

9419	TM_DEFAULT_DELETE_TOOL			H05	QV: FBW
-	Preset tool data for automatic deletion			BYTE	Immediately
				SW4.1	
Emb		Emb: 0	0	1	3/4

9420	MA_ONLY_MKS_DIST_TO_GO			H05	QV: FBW
-	Distance-to-go display in work window			BYTE	Immediately
				SW4.1	
Emb		Emb: 0	0	1	3/4

9421	MA_AXES_SHOW_GEO_FIRST			H05	QV: K1
-	Actual value display with leading axes			BYTE	Immediately
				SW2	
Adv, Emb		Emb: 1	0	1	3/4

9422	MA_PRESET_MODE			H05	QV: K1
-	Select PRESET/Basic offset in JOG			BYTE	Immediately
				SW5	
Adv, Emb		Emb: 1	0	3	3/4

9423	MA_MAX_SKP_LEVEL			H05	QV: K1
-	Max. skip levels in NC program			BYTE	Power On
				SW5	
Adv, Emb		Emb: 1	1	10	3/4

9424	MA_COORDINATE_SYSTEM			H05	QV: K2
-	Coord.syst. for act.val. display			BYTE	Immediately
				SW5	
Adv, Emb		Emb: 0	0	1	3/4

9424	MA_COORDINATE_SYSTEM			H05	QV: K2
-	Coord.syst. for act.val. display			BYTE	Power On
				SW5	
Adv, Emb		Emb: 0	0	1	3/4

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9425	**MA_SCRATCH_DEFAULT_MODE**			H05	**QV:** K2
-	Tool offset calculation Scratching			DOUBLE	Immediately
				5.3	
Emb		Emb: 0	0	2236962	3/4

9426	**MA_AX_DRIVELOAD_FROM_PLC1**			H01, H02, H05	**QV:**
-	Mach.axis ind. analog spindle power displ.			BYTE	Power On
				Emb: 6.5 Adv: 6.4	
SM, ST, Adv, Emb		Emb: 0, SM: , ST:	0	31	3/4

9427	**MA_AX_DRIVELOAD_FROM_PLC2**			H01, H02, H05	**QV:**
-	Mach.axis ind. analog spindle power displ.			BYTE	Power On
				Emb: 6.5 Adv: 6.4	
SM, ST, Adv, Emb		Emb: 0, SM: , ST:	0	31	3/4

9428	**MA_SPIND_MAX_POWER**			H01, H02, H05	**QV:** IM4
%	Maximum value of spindle power rating disp			REAL	Power On
				Emb: 6.5 Adv: 6.4	
SM, ST, Adv, Emb		Emb: 100, SM: , ST:	100	0xFFFF	3/4

9429	**MA_SPIND_POWER_RANGE**			H01, H02, H05	**QV:** IM4
%	Display range of spindle power rating disp			REAL	Power On
				Emb: 6.5 Adv: 6.4	
SM, ST, Adv, Emb		Emb: 100, SM: 200, ST: 200	100	0xFFFF	3/4

9440	**ACTIVATE_SEL_USER_DATA**			H05	**QV:** K2
-	Activate active offset immediately			BYTE	Immediately
				SW4.3	
Adv, Emb		Emb: 0	0	1	3/4

9442	**MA_AUXFU_GROUPS**			H01, H02, H05	**QV:**
-	Auxiliary function groups displayed			STRING	Power On
				7.1	
SM, ST, Adv, Emb		Emb: 0, SM: , ST:	0	0	3/4

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9449	**WRITE_TOA_LIMIT_MASK**			H05	**QV:** K2
-	MD9449 appl. to wear (bit0) SC(1) EC(2)			BYTE	Immediately
				5.2	
Adv			0	7	3/4

9450	**WRITE_TOA_FINE_LIMIT**			H05	**QV:** K2
mm	Limit value for wear fine			DOUBLE	Immediately
				SW4.2	
Adv, Emb		Emb: 0.999	0	0	3/4

9451	**WRITE_ZOA_FINE_LIMIT**			H05	**QV:** K2
mm	Limit value for offset fine			DOUBLE	Immediately
				SW4.2	
Adv, Emb		Emb: 0.999	0	0	3/4

9459	**PA_ZOA_MODE**			H05	**QV:** K2, IM2
-	Display mode zero offset			BYTE	Immediately
				SW 6.1	
Emb		Emb: 1	0	1	3/4

9460	**PROGRAM_SETTINGS**			H05	**QV:** A2
-	Settings in Program area			INTEGER	Immediately
				SW5.1	
Adv, Emb		Emb: 128	0	0	3/4

9461	**CONTOUR_END_TEXT**			H05	**QV:** A2
-	String to be added to end of contour			STRING	Immediately
				SW5.1	
Emb		Emb: """"	0	0	3/4

9464	**MAX_PROGRAMM_SIZE_CHECK**			H05	**QV:**
-	File size from which no test is performed			INTEGER	Immediately
				6.4	
Emb		Emb: 102400	51200	0x7FFFFFFF	3/4

9477	**TO_TRACE**			H01, H02, H05	**QV:**
-	For internal test purposes			REAL	Power On
SM, ST, Emb		Emb: 0, SM: 0, ST: 0	0	0xFFFF	3/4

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9477	**TO_TRACE**			H01, H02, H05	**QV:**
-	For internal test purposes			REAL	Power On
SM, ST, Emb		Emb: 0, SM: 0, ST: 0	0	0xFFFF	3/4

9478	**TO_OPTION_MASK**			H01, H02, H05	**QV:**
-	For internal purposes			INTEGER	Power On
SM, ST, Emb		Emb: 0, SM: 1, ST: 1	0	0	2/2

9479	**TO_MAG_PLACE_DISTANCE**			H02, H05	**QV:** FBSP
mm	Distance betw. indiv. magazine locations			DOUBLE	Power On
				6.3	
ST, Emb		Emb: 0, ST: 0	0	10000	3/4

9480	**MA_SIMULATION_MODE**			H05	**QV:** BAD
-	Simulation type			BYTE	Immediately
				6.4	
Adv			-1	2	3/4

9481	**MA_STAND_SIMULATION_LIMIT**			H05	**QV:** BAD
-	Standard simulation limit in KB			INTEGER	Immediately
				6.4	
Adv			200	2000000	3/4

9500	**NC_PROPERTIES**			H05	**QV:** A2
-	NC properties			BYTE	Immediately
				SW2	
Emb		Emb: 255	0	0xFF	3/4

9500	**NC_PROPERTIES**			H05	**QV:** A2
-	NC properties			BYTE	Immediately
				SW2	
Emb		Emb: 255	0	0xFF	3/4

9509	**USER_CLASS_DIRECTORY_CHG**			H04, H05	**QV:** FBT, FBSP, EMB
-	Protect. level for network configuration			BYTE	Immediately
				6.2	
Emb		Emb: 1	0	7	3/4

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9510	**USER_CLASS_DIRECTORY1_P**			H04, H05	**QV:** A2
-	Protection level for network drive1 progr.			BYTE	Immediately
				6.1	
Adv, Emb		Emb: 1	0	7	3/4

9511	**USER_CLASS_DIRECTORY2_P**			H04, H05	**QV:** A2
-	Protection level for network drive2 progr.			BYTE	Immediately
				6.1	
Adv, Emb		Emb: 1	0	7	3/4

9512	**USER_CLASS_DIRECTORY3_P**			H04, H05	**QV:** A2
-	Protection level for network drive3 progr.			BYTE	Immediately
				6.1	
Adv, Emb		Emb: 1	0	7	3/4

9513	**USER_CLASS_DIRECTORY4_P**			H04, H05	**QV:** A2
-	Protection level for network drive4 progr.			BYTE	Immediately
				6.1	
Adv, Emb		Emb: 1	0	7	3/4

9516	**USER_CLASS_DIRECTORY1_M**			H04, H05	**QV:** A2
-	Protection level for network drive1 mach.			BYTE	Immediately
				6.1	
Adv, Emb		Emb: 0	0	7	3/4

9517	**USER_CLASS_DIRECTORY2_M**			H04, H05	**QV:** A2
-	Protection level for network drive2 mach.			BYTE	Immediately
				6.1	
Adv, Emb		Emb: 0	0	7	3/4

9518	**USER_CLASS_DIRECTORY3_M**			H04, H05	**QV:** A2
-	Protection level for network drive3 mach.			BYTE	Immediately
				6.1	
Adv, Emb		Emb: 0	0	7	3/4

9519	**USER_CLASS_DIRECTORY4_M**			H04, H05	**QV:** A2
-	Protection level for network drive4 mach.			BYTE	Immediately
				6.1	
Adv, Emb		Emb: 0	0	7	3/4

9550	**CTM_CYC_ROUGH_RELEASE_DIST**			H02, H03	**QV:** FBMA
mm	Return distance for contour roughing			DOUBLE	Immediately
				5.2 (840D), 3.2 (810D)	
ST, MT		MT: 1, ST: 1	0.001	10.0	3/4

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9551	CTM_CYC_ROUGH_RELEASE_ANGLE			H02, H03	QV: FBMA
degrees	Return angle for contour roughing			DOUBLE	Immediately
				5.2 (840D), 3.2 (810D)	
ST, MT		MT: 45, ST: 45	0.0	90.0	3/4

9552	CTM_CYC_ROUGH_BLANC_OFFS			H02, H03	QV: FBMA
mm	Blank allowance for contour roughing			DOUBLE	Immediately
				5.2 (840D), 3.2 (810D)	
ST, MT		MT: 1, ST: 1	0.0	100.0	3/4

9553	CTM_CYC_ROUGH_TRACE_ANGLE			H02, H03	QV: FBMA
degrees	Rounding angle for contour cutting			DOUBLE	Immediately
				5.2 (840D), 3.2 (810D)	
ST, MT		MT: 5, ST: 5	0.0	90.0	3/4

9554	CTM_CYC_ROUGH_MIN_REST_MAT1			H02, H03	QV: FBMA
%	Diff. dimension resid. mat. machin. axis 1			DOUBLE	Immediately
				5.2 (840D), 3.2 (810D)	
ST, MT		MT: 50, ST: 50	0.0	1000.0	3/4

9555	CTM_CYC_ROUGH_MIN_REST_MAT2			H02, H03	QV: FBMA
%	Diff. dimension resid. mat. machin. axis 2			DOUBLE	Immediately
				5.2 (840D), 3.2 (810D)	
ST, MT		MT: 50, ST: 50	0.0	1000.0	3/4

9556	CTM_CYC_ROUGH_VAR_DEPTH			H02, H03	QV: FBT
%	Percentage variable cutt. depth cont. rot.			BYTE	Immediately
				6.3	
ST, MT		MT: , ST: 20	0	50	3/4

9557	CTM_CYC_ROUGH_FEED_INT_TIME			H02, H03	QV: FBMA
	Feed interrupt time contour turning			DOUBLE	Immediately
				6.4	
ST, MT		MT: , ST: -1	0	0	3/4

9558	CTM_CYC_ROUGH_INT_REL_DIST			H02, H03	QV: FBMA
mm	Retr. path feed interrupt contour turning			DOUBLE	Immediately
				6.4	
ST, MT		MT: , ST: 0	0	10	3/4

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9560	**CTM_TURN_GROOV_TOOL_BEND**			H02, H03	**QV:** FBT
mm	Retr. due to tool bending plunge-turning			DOUBLE	Immediately
				6.3	
ST, MT		MT: , ST: 0.1	0.0	1.0	3/4

9561	**CTM_TURN_GROOV_FREE_CUT_VAL**			H02, H03	**QV:** FBT
mm	Retr. depth prior to plunge turning oper.			DOUBLE	Immediately
				6.3	
ST, MT		MT: , ST: 0.1	0.0	1.0	3/4

9599	**CTM_OPTION_MASK**			H03	**QV:** FBMA
-	ManualTurn settings			INTEGER	Immediately
				6.3	
MT		MT:	0	0	2/2

9600	**CTM_SIMULATION_DEF_X**			H01, H02, H03, H05	**QV:** FBMA, FBSP
-	Simulation of default value X			INTEGER	Power On
				SW2.1 (810D), 4.3 (840D)	
SM, ST, MT, Emb		Emb: 0, MT: 0, SM: 0, ST: 0	-10000	10000	3/4

9601	**CTM_SIMULATION_DEF_Y**			H01, H02, H03, H05	**QV:** FBMA, FBSP
-	Simulation default value Z			INTEGER	Power On
				SW2.1 (810D), 4.3 (840D)	
SM, ST, MT, Emb		Emb: 0, MT: 0, SM: 0, ST: 0	-10000	10000	3/4

9602	**CTM_SIMULATION_DEF_VIS_AREA**			H01, H02, H03, H05	**QV:** FBMA, FBSP
-	Simulation of display area default value			INTEGER	Power On
				SW2.1 (810D), 4.3 (840D)	
SM, ST, MT, Emb		Emb: 100, MT: 100, SM: 100, ST: 100	-10000	10000	3/4

9603	**CTM_SIMULATION_MAX_X**			H01, H02, H03, H05	**QV:** FBMA, FBSP
-	Simulation of maximum display X			INTEGER	Power On
				SW2.1 (810D), 4.3 (840D)	
SM, ST, MT, Emb		Emb: 0, MT: 0, SM: 0, ST: 0	-10000	10000	3/4

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9604	**CTM_SIMULATION_MAX_Y**			H01, H02, H03, H05	**QV:** FBMA, FBSP
-	Simulation maximum display Z			INTEGER	Power On
				840D SW 4.3, 810D SW 2.1	
SM, ST, MT, Emb		Emb: 0, MT: 0, SM: 0, ST: 0	-10000	10000	3/4

9605	**CTM_SIMULATION_MAX_VIS_AREA**			H01, H02, H03, H05	**QV:** FBMA, FBSP
-	Simulation of maximum display area			INTEGER	Power On
				840D SW 4.3, 810D SW 2.1	
SM, ST, MT, Emb		Emb: 1000, MT: 1000, SM: 1000, ST: 1000	-10000	10000	3/4

9606	**CTM_SIMULATION_TIME_NEW_POS**			H01, H02, H03, H05	**QV:** FBMA, FBT
-	Simulation of actual value update rate			INTEGER	Power On
				840D SW 4.3, 810D SW 2.1, ST 6.1	
SM, ST, MT, Emb		Emb: 100, MT: 100, SM: 250, ST: 250	0	4000	3/4

9607	**CTM_ENABLE_RAPID_FEED**			H03	**QV:** FBMA
-	Enable selection option rapid traverse			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 1	0	1	3/4

9608	**CTM_ENABLE_FEED_P_MIN**			H03	**QV:** FBMA
-	Enable selection option feed in mm/min			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 1	0	1	3/4

9609	**CTM_SPEED_FIELD_DISPLAY_RES**			H03	**QV:** FBMA
-	Decimal places in speed entry field			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 0	0	4	3/4

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9610	CTM_POS_COORDINATE_SYSTEM			H03, H05	QV: FBMA
-	Position of coord. system for turning			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT, Adv, Emb		Emb: 2, MT: 2	0	7	3/4

9611	CTM_CROSS_AX_DIAMETER_ON			H02, H03, H05	QV: FBMA, FBT
-	Diameter display active for transv. axes			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1, ST 6.1	
ST, MT, Emb		Emb: 1, MT: 1, ST: 1	0	1	3/4

9612	CTM_TEACH_STORE_MANUAL_ABS			H03	QV: FBMA
-	Save setup motions as absolute values			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 1	0	1	3/4

9613	CTM_TEACH_STORE_START_ABS			H03	QV: FBMA
-	Save starting position as absolute value			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 1	0	1	3/4

9614	CTM_TEACH_STORE_MANUAL_AUTO			H03	QV: FBMA
-	Save setup motions automatically			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 1	0	1	3/4

9615	CTM_TEACH_HANDW_FEED			H03	QV: FBMA
-	Handwheel feedrate			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 0	0	2	3/4

9616	CTM_TEACH_HANDW_FEED_P_MIN			H03	QV: FBMA
mm/min	Path feed			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 10	1	3000	3/4

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9617	**CTM_TEACH_HANDW_FEED_P_REV**			H03	**QV:** FBMA
	Revolutional feedrate			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 1	0.01	10000	3/4

9618	**CTM_ENABLE_C_AXIS**			H03	**QV:** FBMA
-	Enable C axis for interface			BYTE	Power On
				840D SW 4.3, 810D SW 2.1	
MT		MT: 1	0	2	3/4

9619	**CTM_G91_DIAMETER_ON**			H02, H03, H05	**QV:** FBMA, FBT
-	Incremental infeed			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1, ST 6.1	
ST, MT, Emb		Emb: 1, MT: 1, ST: 0	0	1	3/4

9620	**CTM_CYCLE_SAFETY_CLEARANCE**			H03	**QV:** FBMA
mm	Safety clearance ManualTurn cycles			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 1	0.0	1000	3/4

9621	**CTM_CYCLE_DWELL_TIME**			H03	**QV:** FBMA
	Tool clearance time for cycles			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: -1	-100	100	3/4

9622	**CTM_ENABLE_REFPOINT**			H03	**QV:** FBMA
-	Enable ref. pt. approach for ManualTurn			REAL	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 1	0	1	3/4

9623	**CTM_START_WITHOUT_REFPOINT**			H03	**QV:** FBMA
-	Enable NC start without referenced axes			BYTE	Power On
				840D SW 4.3, 810D SW 2.1	
MT		MT: 0	0	1	3/4

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9624	CTM_MODE_SELECT_BY_SOFTKEY			H03	QV: FBMA
-	Mode switchover via vertical softkeys			BYTE	Power On
				840D SW 4.3, 810D SW 2.1	
MT		MT: 0	0	1	3/4

9625	CTM_CUSTOMER_START_PICTURE			H03	QV: FBMA
-	Customer start-up screen			BYTE	Power On
				840D SW 4.3, 810D SW 2.1	
MT		MT: 0	0	1	3/4

9626	CTM_TRACE			H01, H02, H03	QV: FBMA
-	Testflags f. intern ManualTurn diagnosis			INTEGER	Immediately
				840D SW 4.3, 810D SW 2.1	
SM, ST, MT		MT: 1, SM: 1, ST: 1	0	0x7FFFFFFF	3/4

9626	CTM_TRACE			H01, H02, H03	QV: FBMA
-	Testflags f. intern ManualTurn diagnosis			INTEGER	Immediately
				840D SW 4.3, 810D SW 2.1	
SM, ST, MT		MT: 1, SM: 1, ST: 1	0	0x7FFFFFFF	3/4

9627	CTM_COUNT_GEAR_STEPS			H03	QV: FBMA
-	Number of gear stages			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 1	0	5	3/4

9628	CTM_TOOL_INPUT_DIAM_ON			H03	QV: FBMA
-	Display tool data X as diameter			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 0	0	1	3/4

9629	CTM_WEAR_INPUT_DIAM_ON			H03	QV: FBMA
-	Display tool wear data X diameter			BYTE	Immediately
				840D SW 4.3, 810D SW 2.1	
MT		MT: 0	0	1	3/4

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9630	**CTM_FIN_FEED_PERCENT**			H02, H03	**QV:** FBMA, FBT
%	Roughing feedrate in percent			REAL	Immediately
				840D SW 4.3, 810D SW 2.3, ST 6.1	
ST, MT		MT: 100, ST: 100	1	100	3/4

9631	**CTM_CYCLE_DWELL_TIME_SEC**			H03	**QV:** FBMA
	Dwell time for cycles in seconds			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 1	0	100	3/4

9632	**CTM_ANGLE_REFERENCE_AXIS**			H03, H05	**QV:** FBMA
-	Angle reference axis			REAL	Immediately
				840D SW 4.4, 810D SW 2.4	
MT, Emb		Emb: 1, MT: 1	0	1	3/4

9633	**CTM_INC_DEC_FEED_PER_MIN**			H03	**QV:** FBMA
mm/min	Increments for feedrate in mm/min			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 10	0.001	1000	3/4

9634	**CTM_INC_DEC_FEED_PER_ROT**			H03	**QV:** FBMA
mm	Increments for feedrate in mm/rev			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 0.1	0.001	10	3/4

9636	**CTM_ENABLE_S_TOOL_TABLE**			H03	**QV:** FBMA
-	Enable cutting speed from tool table			BYTE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 0	0	1	3/4

9637	**CTM_MAX_INP_FEED_P_MIN**			H03	**QV:** FBMA
mm/min	Upper input limit for feedrate in mm/min			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 2000	0	100000	3/4

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9638	**CTM_MAX_INP_FEED_P_ROT**			H03	**QV:** FBMA
mm	Upper input limit for feedrate in mm/rev			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 1	0	10000	3/4

9639	**CTM_MAX_TOOL_WEAR**			H03, H05	**QV:** FBMA
mm	Upper limit tool wear input			DOUBLE	Power On
				840D SW 4.4, 810D SW 2.4	
MT, Adv		MT: 1	0	10	3/4

9640	**CTM_ENABLE_CALC_THREAD_PITC**			H01, H02, H03	**QV:** FBMA
-	Automatic calculation of thread depth			BYTE	Immediately
				840D SW 4.4, 810D SW 2.4	
SM, ST, MT		MT: 0, SM: 0, ST: 0	0	1	3/4

9641	**CTM_ENABLE_G_CODE_INPUT**			H03	**QV:** FBMA
-	Enable of G code input			BYTE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 0	0	1	3/4

9642	**CTM_ENABLE_CIRCLE_HOLE_CYCL**			H03	**QV:** FBMA
-	Enable drilling of hole circle			BYTE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 0	0	1	3/4

9643	**CTM_ENABLE_DRIVEN_TOOL**			H03	**QV:** FBMA
-	Enable support of driven tools			BYTE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 0	0	2	3/4

9644	**CTM_CIRC_TAP_DWELL_TIME_1**			H03	**QV:** FBMA
	Dwell time bottom, tapping on hole circle			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 0	0	100	3/4

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9645	**CTM_CIRC_TAP_DWELL_TIME_2**			H03	**QV:** FBMA
	Dwell time top, tapping on hole circle			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4	
MT		MT: 0	0	100	3/4

9646	**CTM_FACTOR_O_CALC_THR_PITCH**			H01, H02, H03	**QV:** FBMA, FBT
-	Mode for retraction distance external mach			DOUBLE	Immediately
				6.3	
SM, ST, MT		MT: 0.6134, SM: 0.6134, ST: 0.6134	0	0	3/4

9647	**CTM_FACTOR_I_CALC_THR_PITCH**			H01, H02, H03	**QV:** FBMA, FBT
-	Mode for return dist. stock rem. int.mach.			DOUBLE	Immediately
				6.3	
SM, ST, MT		MT: 0.5413, SM: 0.5413, ST: 0.5413	0	0	3/4

9648	**CTM_ROUGH_O_RELEASE_DIST**			H02, H03	**QV:** FBMA, FBT
mm	Return dist. stock rem. for ext.machining			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4, ST 6.1	
ST, MT		MT: 1.0, ST: 1.0	-1	100	3/4

9649	**CTM_ROUGH_I_RELEASE_DIST**			H02, H03	**QV:** FBMA, FBT
mm	Return dist. stock rem. for int.machining			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4, ST 6.1	
ST, MT		MT: 0.5, ST: 0.5	-1	100	3/4

9650	**CMM_POS_COORDINATE_SYSTEM**			H01, H02, H05	**QV:** FBSP, FBT
-	Coordinate system position			BYTE	Immediately
				SW4.3 , ST 6.1	
SM, ST, Adv, Emb		Emb: 0, SM: 0, ST: 34	0	47	3/4

9651	**CMM_TOOL_MANAGEMENT**			H01, H02, H05	**QV:** FBSP, FBT
-	Tool management concept			BYTE	Power On
				6.1, ST 6.1	
SM, ST, Adv, Emb		Emb: 4, SM: 4, ST: 4	1	4	3/4

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9652	CMM_TOOL_LIFE_CONTROL			H01, H02, H05	QV: FBSP, FBT
-	Tool monitoring			BYTE	Power On
				6.1	
SM, ST, Adv, Emb		Emb: 1, SM: 1, ST: 1	0	1	3/4

9653	CMM_ENABLE_A_AXIS			H01	QV: FBSP
-	Enable 4th axis for user interface			BYTE	Immediately
				840D SW 4.3, 810D SW 2.3	
SM		SM: 0	0	3	3/4

9654	CMM_SPEED_FIELD_DISPLAY_RES			H01, H02	QV: FBSP, FBT
-	Decimal places in speed entry field			BYTE	Immediately
				840D SW 4.3, 810D SW 2.3, ST 6.1	
SM, ST		SM: 0, ST: 0	0	4	3/4

9655	CMM_CYC_PECKING_DIST			H01	QV: FBSP
mm	Amount of retract.for deep hole drilling			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.3	
SM		SM: -1	-1.0	100.0	3/4

9656	CMM_CYC_DRILL_RELEASE_DIST			H01, H02	QV: FBSP
mm	Amount of retraction for boring			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.3	
SM, ST		SM: -1, ST: 0.1	-1.0	10.0	3/4

9657	CMM_CYC_MIN_CONT_PO_TO_RAD			H01, H02	QV: FBSP, FBT
%	Deviation from minimum cutter radius			REAL	Immediately
				840D SW 4.3, 810D SW 2.3, ST 6.1	
SM, ST		SM: 5, ST: 5	0	50	3/4

9658	CMM_CYC_MAX_CONT_PO_TO_RAD			H01, H02	QV: FBSP, FBT
mm	Deviation from maximum cutter radius			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.3, ST 6.1	
SM, ST		SM: 0.01, ST: 0.01	0.0	10	3/4

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9659	CMM_CYC_DRILL_RELEASE_ANGLE			H01	QV: FBSP
degrees	Retraction angle for boring			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.3	
SM		SM: -1	-1.0	360.0	3/4

9660	CMM_ENABLE_PLANE_CHANGE			H01	QV: FBSP
-	Switch to machining plane			BYTE	Immediately
				840D SW 4.3, 810D SW 2.3	
SM		SM: 1	0	1	3/4

9662	CMM_COUNT_GEAR_STEPS			H01	QV: FBSP
-	Number of gear stages			BYTE	Immediately
				840D SW 4.3, 810D SW 2.3	
SM		SM: 1	0	5	3/4

9663	CMM_TOOL_DISPLAY_IN_DIAM			H01, H02, H05	QV: FBSP, FBT
-	Display of radius/diameter for tool			BYTE	Power On
				840D SW 4.3, 810D SW 2.3, ST 6.1	
SM, ST, Adv, Emb		Emb: 1, SM: 1, ST: 1	0	1	3/4

9664	CMM_MAX_INP_FEED_P_MIN			H01, H02	QV: FBSP, FBT
mm/min	Feedrate in mm/min			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.3, ST 6.1	
SM, ST		SM: 10000.0, ST: 10000.0	0	100000	3/4

9665	CMM_MAX_INP_FEED_P_ROT			H01, H02	QV: FBSP, FBT
	Feedrate in mm/rev			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.3, ST 6.1	
SM, ST		SM: 1.0, ST: 1.0	0	10	3/4

9666	CMM_MAX_INP_FEED_P_TOOTH			H01, H02	QV: FBSP, FBT
	Feedrate in mm/tooth			DOUBLE	Immediately
				840D SW 4.3, 810D SW 2.3, ST 6.1	
SM, ST		SM: 1.0, ST: 1.0	0	5	3/4

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9667	CMM_FOLLOW_ON_TOOL_ACTIVE			H01, H02	QV: FBSP, FBT
-	Tool preselection active			BYTE	Immediately
				840D SW 4.3, 810D SW 2.3, ST 6.1	
SM, ST		SM: 1, ST: 0	0	1	3/4

9668	CMM_M_CODE_COOLANT_I_AND_II			H01, H02	QV: FBSP, FBT
-	M code coolants I and II			INTEGER	Immediately
				840D SW 4.4, 810D SW 2.4, ST 6.1	
SM, ST		SM: -1, ST: -1	-1	32767	3/4

9669	CMM_FACE_MILL_EFF_TOOL_DIAM			H01, H02	QV: FBSP
%	Effective mill diameter for face milling			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4	
SM, ST		SM: 85.0, ST: 85.0	50.0	100.0	3/4

9670	CMM_START_RAD_CONTOUR_POCKE			H01, H02	QV: FBSP, FBT
mm	Approach circle rad. finish. cont. pock.			DOUBLE	Immediately
				840D SW 4.4, 810D SW 2.4, ST 6.1	
SM, ST		SM: -1.0, ST: -1.0	-1.0	100.0	3/4

9671	CMM_TOOL_LOAD_DEFAULT_MAG			H01, H02	QV: FBSP
-	Load default magazine tool			BYTE	Power On
				6.4	
SM, ST		SM: 0, ST: 0	0	30	3/4

9672	CMM_FIXED_TOOL_PLACE			H01, H02, H05	QV: FBSP, FBT
-	Fixed location coding			BYTE	Power On
				840D SW 4.4, 810D SW 2.4, ST 6.1	
SM, ST, Adv, Emb		Emb: 0, SM: 0, ST: 1	0	1	3/4

9673	CMM_TOOL_LOAD_STATION			H01, H02, H05	QV: FBSP, FBT
-	Number of load station			BYTE	Power On
				840D SW 4.4, 810D SW 2.4, ST 6.1	
SM, ST, Adv, Emb		Emb: 1, SM: 1, ST: 1	1	2	3/4

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9674	**CMM_ENABLE_TOOL_MAGAZINE**			H01, H02, H05	**QV:** FBSP, FBT
-	Display of magazine list			BYTE	Power On
				840D SW 4.4, 810D SW 2.4, ST 6.1	
SM, ST, Adv, Emb		Emb: 1, SM: 1, ST: 1	0	1	3/4

9675	**CMM_CUSTOMER_START_PICTURE**			H01, H02	**QV:** FBSP, FBT
-	Customer start-up screen			BYTE	Immediately
				840D SW 4.4, 810D SW 2.4 mit SM	
SM, ST		SM: 0, ST: 0	0	1	3/4

9676	**CMM_DIRECTORY_SOFTKEY_PATH1**			H01, H02, H05	**QV:** FBSP, FBT
-	Path to drive names in directory manag.			STRING	Power On
				840D SW 4.4, 810D SW 2.4 mit SM	
SM, ST, Adv, Emb		Emb: 0, SM: """", ST: """"	0	0	3/4

9677	**CMM_DIRECTORY_SOFTKEY_PATH2**			H01, H02, H05	**QV:** FBSP, FBT
-	Path to drive names in directory manag.			STRING	Power On
				840D SW 4.4, 810D SW 2.4 mit SM	
SM, ST, Adv, Emb		Emb: 0, SM: """", ST: """"	0	0	3/4

9678	**CMM_DIRECTORY_SOFTKEY_PATH3**			H01, H02, H05	**QV:** FBSP, FBT
-	Path to drive names in directory manag.			STRING	Power On
				840D SW 4.4, 810D SW 2.4 mit SM	
SM, ST, Adv, Emb		Emb: 0, SM: """", ST: """"	0	0	3/4

9679	**CMM_DIRECTORY_SOFTKEY_PATH4**			H01, H02, H05	**QV:** FBSP, FBT
-	Path to drive names in directory manag.			STRING	Power On
				840D SW 4.4, 810D SW 2.4 mit SM	
SM, ST, Adv, Emb		Emb: 0, SM: """", ST: """"	0	0	3/4

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9680	**CMM_M_CODE_COOLANT_I**			H01, H02	**QV:** FBSP
-	M code coolant I			INTEGER	Immediately
				840D SW 4.4, 810D SW 2.4 mit SM	
SM, ST		SM: 8, ST: 8	0	32767	3/4

9681	**CMM_M_CODE_COOLANT_II**			H01, H02	**QV:** FBSP
-	M code coolant II			INTEGER	Immediately
				840D SW 4.4, 810D SW 2.4 mit SM	
SM, ST		SM: 7, ST: 7	0	32767	3/4

9682	**CMM_CYC_BGF_BORE_DIST**			H01	**QV:** FBSP
mm	Mode for return value boring			DOUBLE	Immediately
				6.3	
SM		SM: 1	0.0	100.0	3/4

9686	**CMM_M_CODE_COOLANT_OFF**			H01, H02	**QV:** BAS
-	M code for coolant OFF			INTEGER	Immediately
				6.3	
SM, ST		SM: 9, ST: 9	0	32767	3/4

9687	**CMM_TOOL_MOVE_DEFAULT_MAG**			H01, H02	**QV:** FBSP
-	Relocate default magazine tool			BYTE	Power On
				6.4	
SM, ST		SM: 0, ST: 0	0	30	3/4

9688	**CMM_COUNT_GEAR_STEPS_S2**			H01	**QV:**
-	Number of gear stages for 2nd spindle			BYTE	Immediately
SM		SM: 1	0	5	3/4

9690	**CMM_OEM_FUNCTION_MASK_1**			H01	**QV:** BAS
-	OEM display machine data 1			INTEGER	Immediately
				6.2	
SM		SM: 0	0	0	6/6

9691	**CMM_OEM_FUNCTION_MASK_2**			H01	**QV:** BAS
-	OEM display machine data 2			INTEGER	Immediately
				6.2	
SM		SM: 0	0	0	6/6

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9703	**CMM_INDEX_AXIS_4**			H01	**QV:** FBSP
-	Axis index for 4th axis			BYTE	Immediately
				840D SW 5.3, 810D SW 3.3	
SM		SM: 0	0	127	3/4

9704	**CMM_INDEX_AXIS_5**			H01	**QV:** FBSP
-	Axis index for 5th axis			BYTE	Immediately
				840D SW 5.3, 810D SW 3.3	
SM		SM: 0	0	127	3/4

9705	**CMM_INDEX_SPINDLE**			H01	**QV:** FBSP
-	Axis index for spindle			BYTE	Immediately
				840D SW 5.3, 810D SW 3.3	
SM		SM: 4	1	127	3/4

9706	**CMM_GEOAX_ASSIGN_AXIS_4**			H01	**QV:** FBSP
-	Fourth axis assigned to geometry axis			BYTE	Immediately
				6.4	
SM		SM: 0	0	6	3/4

9707	**CMM_GEOAX_ASSIGN_AXIS_5**			H01	**QV:** FBSP
-	Fifth axis assigned to geometry axis			BYTE	Immediately
				6.4	
SM		SM: 0	0	6	3/4

9708	**CMM_INDEX_SPINDLE_2**			H01	**QV:**
-	Axis index for 2nd spindle			BYTE	Immediately
SM		SM: 0	0	127	3/4

9718	**CMM_OPTION_MASK_2**			H01, H02	**QV:** FBSP, FBT
-	Settings for ShopMill 2			INTEGER	Immediately
				6.3	
SM, ST		SM: 2, ST: 2	0	0	2/2

9719	**CMM_OPTION_MASK**			H01, H02	**QV:** FBSP
-	Settings for ShopMill			INTEGER	Immediately
				840D SW 5.3, 810D SW 3.3	
SM, ST		SM: 5, ST: 5	0	0	2/2

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9720	**CMM_ENABLE_B_AXIS**			H01	**QV:** FBSP
-	Enable B axis			BYTE	Immediately
				840D SW 4.4, 810D SW 2.4 mit SM	
SM		SM: 0	0	3	3/4

9721	**CMM_ENABLE_TRACYL**			H01	**QV:** FBSP
-	Enable cylinder periph. transformation			BYTE	Immediately
				840D SW 4.4, 810D SW 2.4 mit SM	
SM		SM: 0	0	1	3/4

9723	**CMM_ENABLE_SWIVELLING_HEAD**			H01, H02	**QV:** FBSP
-	Enable inclinable heads			BYTE	Immediately
				840D SW 4.4, 810D SW 2.4 mit SM	
SM, ST		SM: 0, ST: 0	0	1	3/4

9724	**CMM_CIRCLE_RAPID_FEED**			H01, H02	**QV:** FBT
mm/min	Rap. trav. feed positioning on circle path			DOUBLE	Immediately
				840D SW 6.1, 810D SW 4.1	
SM, ST		SM: 5000, ST: 5000	0	100000	3/4

9725	**CMM_ENABLE_QUICK_M_CODES**			H01, H02	**QV:** FBSP
-	Enable fast M functions			BYTE	Immediately
				6.4	
SM, ST		SM: 0, ST: 0	0	0	3/4

9725	**CMM_ENABLE_QUICK_M_CODES**			H01, H02	**QV:** FBSP
-	Enable fast M functions			BYTE	Immediately
				6.4	
SM, ST		SM: 0, ST: 0	0	0	3/4

9726	**CMM_DISPLAY_MD_IS_METRIC**			H01, H02	**QV:** FBSP
-	Display machine data unit (inch/mm)			BYTE	Immediately
				6.4	
SM, ST		SM: 1, ST: 1	0	0	3/4

9727	**CMM_ENABLE_POS_A_B_AXIS**			H01	**QV:** FBSP
-	A/B axis support enable			BYTE	Immediately
				6.4	
SM		SM:	0	0	3/4

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9728	**CMM_DISPL_DIR_A_B_AXIS_INV**			H01	**QV:** FBSP
-	Direction of rotation of A/B axis adjusted			BYTE	Immediately
				6.4	
SM		SM:	0	1	3/4

9729	**CMM_G_CODE_TOOL_CHANGE_PROG**			H01, H02	**QV:** FBSP
-	Tool change program in G code			STRING	Immediately
				6.4	
SM, ST		SM: """", ST: """"	0	0	3/4

9739	**CMM_M_CODE_TOOL_FUNC_1_ON**			H01	**QV:** FBST
-	M code for tool-specific function 1 ON			INTEGER	Immediately
SM		SM: -1	-1	32767	3/4

9740	**CMM_M_CODE_TOOL_FUNC_1_OFF**			H01	**QV:** FBST
-	M code for tool-specific function 1 OFF			INTEGER	Immediately
SM		SM: -1	-1	32767	3/4

9741	**CMM_M_CODE_TOOL_FUNC_2_ON**			H01	**QV:** FBSP
-	M code for tool-specific function 2 ON			INTEGER	Immediately
SM		SM: -1	-1	32767	3/4

9742	**CMM_M_CODE_TOOL_FUNC_2_OFF**			H01	**QV:** FBSP
-	M code for tool-specific function 2 OFF			INTEGER	Immediately
SM		SM: -1	-1	32767	3/4

9743	**CMM_M_CODE_TOOL_FUNC_3_ON**			H01	**QV:** FBST
-	M code for tool-specific function 3 ON			INTEGER	Immediately
SM		SM: -1	-1	32767	3/4

9744	**CMM_M_CODE_TOOL_FUNC_3_OFF**			H01	**QV:** FBST
-	M code for tool-specific function 3 OFF			INTEGER	Immediately
SM		SM: -1	-1	32767	3/4

9745	**CMM_M_CODE_TOOL_FUNC_4_ON**			H01	**QV:** FBST
-	M code for tool-specific function 4 ON			INTEGER	Immediately
SM		SM: -1	-1	32767	3/4

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9746	CMM_M_CODE_TOOL_FUNC_4_OFF			H01	QV: FBST
-	M code for tool-specific function 4 OFF			INTEGER	Immediately
SM		SM: -1	-1	32767	3/4

9747	CMM_ENABLE_MEAS_AUTO			H01	QV:
-	Automatic workpiece measurement enable			BYTE	Immediately
				7.1	
SM		SM: 1	0	1	3/4

9748	CMM_MKS_POSITION_MAN_MEAS			H01	QV: FBSP
mm	Posit. of man. tool meas. with fixed point			DOUBLE	Immediately
				6.4	
SM		SM:	0	0	3/4

9749	CMM_ENABLE_MEAS_T_AUTO			H01, H02	QV: FBSP, FBT
-	Enable automatic tool measuring			INTEGER	Immediately
				6.3	
SM, ST		SM: 1, ST: 1	0	1	3/4

9750	CMM_MEAS_PROBE_INPUT			H01, H02	QV: FBSP, FBT
-	Measuring input for workpiece probe			REAL	Immediately
				6.3	
SM, ST		SM: 0, ST: 0	0	1	3/4

9751	CMM_MEAS_T_PROBE_INPUT			H01, H02	QV: FBSP, FBT
-	Measuring input for tool probe			REAL	Immediately
				6.3	
SM, ST		SM: 1, ST: 0	0	1	3/4

9752	CMM_MEASURING_DISTANCE			H01, H02	QV: FBSP, FBT
mm	Max. meas. dist. f. workp. meas. in progr.			DOUBLE	Immediately
				6.3	
SM, ST		SM: 5, ST: 5	1	1000	3/4

9753	CMM_MEAS_DIST_MAN			H01, H02	QV: FBSP, FBT
mm	Max. meas. dist. f. manual workp. meas.			DOUBLE	Immediately
				6.3	
SM, ST		SM: 10, ST: 10	0.01	1000	3/4

9754	CMM_MEAS_DIST_TOOL_LENGTH			H01, H02	QV: FBSP, FBT
mm	Max. meas. dist. f. tool lgth rotat. spin.			DOUBLE	Immediately
				6.3	
SM, ST		SM: 2, ST: 10	0.001	1000	3/4

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9755	CMM_MEAS_DIST_TOOL_RADIUS			H01, H02	QV: FBSP, FBT
mm	Max. meas. dist. f. tool rad. rotat. spin.			DOUBLE	Immediately
				6.3	
SM, ST		SM: 1, ST: 1	0.001	1000	3/4

9756	CMM_MEASURING_FEED			H01, H02	QV: FBSP, FBT
mm/min	Meas. feedrate f. workpiece meas.			DOUBLE	Immediately
				6.3	
SM, ST		SM: 300, ST: 300	10	5000	3/4

9757	CMM_FEED_WITH_COLL_CTRL			H01, H02	QV: FBSP, FBT
mm/min	Plane feed with collision detection			DOUBLE	Immediately
				6.3	
SM, ST		SM: 1000, ST: 1000	10	5000	3/4

9758	CMM_POS_FEED_WITH_COLL_CTRL			H01, H02	QV: FBSP, FBT
mm/min	Infeed rate with collision detection			DOUBLE	Immediately
				6.3	
SM, ST		SM: 1000, ST: 1000	10	5000	3/4

9759	CMM_MAX_CIRC_SPEED_ROT_SP			H01, H02	QV: FBSP, FBT
	Max.periph.speed f.tool meas.w.rot.spin.			DOUBLE	Immediately
				6.3	
SM, ST		SM: 100, ST: 100	1	200	3/4

9760	CMM_MAX_SPIND_SPEED_ROT_SP			H01, H02	QV: FBSP, FBT
	Max. speed f. tool meas. w. rot. spindle			DOUBLE	Immediately
				6.3	
SM, ST		SM: 1000, ST: 1000	100	25000	3/4

9761	CMM_MIN_FEED_ROT_SP			H01, H02	QV: FBSP, FBT
mm/min	Min. feedr. f. tool meas. w. rot.spindle			DOUBLE	Immediately
				6.3	
SM, ST		SM: 10, ST: 10	1	1000	3/4

9762	CMM_MEAS_TOL_ROT_SP			H01, H02	QV: FBSP, FBT
mm	Meas. acc. f. tool meas. w. rot. spindle			DOUBLE	Immediately
				6.3	
SM, ST		SM: 0.01, ST: 0.01	0.001	1	3/4

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9763	CMM_TOOL_PROBE_TYPE			H01, H02	QV: FBSP, FBT
-	Type of tool probe			REAL	Immediately
				6.3	
SM, ST		SM: 0, ST: 0	0	999	3/4

9764	CMM_TOOL_PROBE_ALLOW_AXIS			H01, H02	QV: FBSP, FBT
-	Permiss. axis direct. tool probe			REAL	Immediately
				6.3	
SM, ST		SM: 133, ST: 133	0	333	3/4

9765	CMM_T_PROBE_DIAM_LENGTH_MEA			H01, H02	QV: FBSP, FBT
mm	Dia. of tool probe f. length measurement			DOUBLE	Immediately
				6.3	
SM, ST		SM: 0, ST: 0	0	100000	3/4

9766	CMM_T_PROBE_DIAM_RAD_MEAS			H01, H02	QV: FBSP, FBT
mm	Dia. of tool probe f. radius measurement			DOUBLE	Immediately
				6.3	
SM, ST		SM: 0, ST: 0	0	100000	3/4

9767	CMM_T_PROBE_DIST_RAD_MEAS			H01, H02	QV: FBSP, FBT
mm	Infeed f.top edge of t-probe f.rad.meas.			DOUBLE	Immediately
				6.3	
SM, ST		SM: 0, ST: 0	0	100000	3/4

9768	CMM_T_PROBE_APPROACH_DIR			H01, H02	QV: FBSP, FBT
-	Plane approach dir. tool probe			BYTE	Immediately
				6.3	
SM, ST		SM: -1, ST: -1	-2	2	3/4

9769	CMM_FEED_FACTOR_1_ROT_SP			H01, H02	QV: FBSP
-	Feedrate fact. 1 tool meas. w. rot. spin.			DOUBLE	Immediately
				6.3	
SM, ST		SM: 0, ST: 0	0	100	3/4

9770	CMM_FEED_FACTOR_2_ROT_SP			H01, H02	QV: FBSP
-	Feedrate fact. 2 tool meas. w. rot. spin.			DOUBLE	Immediately
				6.3	
SM, ST		SM: 0, ST: 0	0	50	3/4

9771	CMM_MAX_FEED_ROT_SP			H01, H02	QV: FBSP
mm/min	Max. feedr. f. tool meas. w. rot. spindle			DOUBLE	Immediately
				6.3	
SM, ST		SM: 20, ST: 20	1	1000	3/4

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9772	**CMM_T_PROBE_MEASURING_DIST**			H01, H02	**QV:** FBSP
mm	Meas.dist. f. tool meas. w. non-rot. spin.			DOUBLE	Immediately
				6.3	
SM, ST		SM: 5, ST: 10	0.01	1000	3/4

9773	**CMM_T_PROBE_MEASURING_FEED**			H01, H02	**QV:** FBSP
mm/min	Feedrate f. tool meas. w. non-rot. spindle			DOUBLE	Immediately
				6.3	
SM, ST		SM: 300, ST: 300	10	5000	3/4

9774	**CMM_T_PROBE_MANUFACTURER**			H01, H02	**QV:** FBSP
-	Tool probe manufacturer			INTEGER	Immediately
				6.3	
SM, ST		SM: 0, ST: 0	0	2	3/4

9775	**CMM_T_PROBE_OFFSET**			H01, H02	**QV:** FBSP
-	Tool meas. offset w. rot. spindle			INTEGER	Immediately
				6.3	
SM, ST		SM: 0, ST: 0	0	2	3/4

9776	**CMM_MEAS_SETTINGS**			H01, H02	**QV:** FBSP
-	Settings for measuring cycles			INTEGER	Immediately
				6.4	
SM, ST		SM: 0, ST: 0	0	0	3/4

9777	**CMM_ENABLE_TIME_DISPLAY**			H01	**QV:** FBSP
-	Time display enable			BYTE	Immediately
				6.4	
SM		SM: 127	0	0	3/4

9778	**CMM_MEAS_PROBE_SOUTH_POLE**			H01	**QV:** FBST
-	Probe length in relation to the lower edge			BYTE	Immediately
SM		SM: 1	0	1	3/4

9779	**CMM_MEAS_PROBE_IS_MONO**			H01	**QV:** FBST
-	Workpiece probe is mono probe			BYTE	Immediately
SM		SM: 0	0	1	3/4

9802	**ST_INDEX_AXIS_C_SUB**			H02	**QV:**
-	Axis index for C axis of counterspindle			BYTE	Immediately
ST		ST: 0	0	127	3/4

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9803	**ST_INDEX_AXIS_4**			H02	**QV:** FBT
-	Axis index for 4th axis			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 5	0	127	3/4

9804	**ST_INDEX_SPINDLE_MAIN**			H02, H03	**QV:** FBT
-	Axis index for main spindle			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST, MT		MT: , ST: 3	1	127	3/4

9805	**ST_INDEX_SPINDLE_TOOL**			H02, H03	**QV:** FBT
-	Axis index for tool spindle			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST, MT		MT: , ST: 4	0	127	3/4

9806	**ST_INDEX_SPINDLE_SUB**			H02	**QV:** FBT
-	Axis index for counterspindle			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	127	3/4

9807	**ST_INDEX_AXIS_C**			H02	**QV:** FBT
-	Axis index for C axis			BYTE	Immediately
				6.3	
ST		ST: 0	0	127	3/4

9808	**ST_INDEX_AXIS_B**			H02	**QV:**
-	Axis index for B axis			BYTE	Immediately
ST		ST:	0	127	3/4

9810	**ST_GEAR_STEPS_SPINDLE_MAIN**			H02	**QV:** FBT
-	Number of main spindle threads			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	5	3/4

9811	**ST_GEAR_STEPS_SPINDLE_TOOL**			H02	**QV:** FBT
-	Number of tool spindle threads			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	5	3/4

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9812	**ST_GEAR_STEPS_SPINDLE_SUB**			H02	**QV:** FBT
-	Number of counter spindle threads			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	5	3/4

9820	**ST_MAGN_GLASS_POS_1**			H02	**QV:** FBT
mm	Measure zoom-in pos. to tool, 1st axis			DOUBLE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	0	3/4

9821	**ST_MAGN_GLASS_POS_2**			H02	**QV:** FBT
mm	Measure zoom-in pos. to tool, 2nd axis			DOUBLE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	0	3/4

9822	**ST_DISPL_DIR_MAIN_SPIND_M3**			H02	**QV:** FBT
-	Displ. direction of rot. main spindle M3			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	1	3/4

9823	**ST_DISPL_DIR_SUB_SPIND_M3**			H02	**QV:** FBT
-	Displ. direction of rot. counterspindle M3			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	1	3/4

9824	**ST_DISPL_DIR_MAIN_C_AX_INV**			H02	**QV:** FBT
-	Direction of rotation of C axis main spind			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	1	3/4

9825	**ST_DISPL_DIR_SUB_C_AX_INV**			H02	**QV:** FBT
-	Direction of rotation of C axis counterspi			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	1	3/4

9826	**ST_DEFAULT_DIR_TURN_TOOLS**			H02	**QV:** FBT
-	Main dir. of rot. for all turning tools			BYTE	Power On
				840D SW 6.1, 810D SW 4.1	
ST		ST: 3	3	4	3/4

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9827	**ST_DEFAULT_MACHINING_SENSE**			H02	**QV:** FBT
-	Basic sett. f. machining direction milling			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	1	3/4

9828	**ST_MEAS_T_PROBE_INPUT_SUB**			H02	**QV:** FBT
-	Meas. input f. tool probe counterspindle			REAL	Immediately
				6.3	
ST		ST: 1	0	1	3/4

9829	**ST_SPINDLE_CHUCK_TYPES**			H02	**QV:** FBT
-	Spindle chuck selection			BYTE	Immediately
				6.4	
ST		ST: 0	0	0	3/4

9829	**ST_SPINDLE_CHUCK_TYPES**			H02	**QV:** FBT
-	Spindle chuck selection			BYTE	Immediately
				6.4	
ST		ST: 0	0	0	3/4

9830	**ST_SPINDLE_PARA_ZL0**			H02	**QV:** FBT
mm	Main spindle chuck dimension			DOUBLE	Immediately
				6.4	
ST		ST: 0	0	0	3/4

9831	**ST_SPINDLE_PARA_ZL1**			H02	**QV:** FBT
mm	Counterspindle chuck dimension			DOUBLE	Immediately
				6.4	
ST		ST: 0	0	0	3/4

9832	**ST_SPINDLE_PARA_ZL2**			H02	**QV:** FBT
mm	Counterspindle stop dimension			DOUBLE	Immediately
				6.4	
ST		ST: 0	0	0	3/4

9833	**ST_SPINDLE_PARA_ZL3**			H02	**QV:** FBT
mm	Counterspindle jaw dimension			DOUBLE	Immediately
				6.4	
ST		ST: 0	0	0	3/4

9836	**ST_TAILSTOCK_DIAM**			H02	**QV:** FBT
mm	Tailstock diameter			DOUBLE	Immediately
				7.1	
ST		ST:	0	0	3/4

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9837	ST_TAILSTOCK_LENGTH			H02	QV: FBT
mm	Tailstock length			DOUBLE	Immediately
				7.1	
ST		ST:	0	0	3/4

9838	ST_BORDER_TOOL_LEN_X_REV_2			H02	QV:
mm	Limit value tool length X for second turre			DOUBLE	Immediately
ST		ST:	0	0	3/4

9840	ST_ENABLE_MAGN_GLASS			H02	QV: FBT
-	Zoom-in under manual: tool meas.			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	1	3/4

9841	ST_ENABLE_PART_OFF_RECEPT			H02	QV: FBT
-	Enable receptacle function for cut-off			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	1	3/4

9842	ST_ENABLE_TAILSTOCK			H02	QV: FBT
-	Enable tailstock			BYTE	Immediately
				6.2	
ST		ST: 0	0	1	3/4

9843	ST_ENABLE_SPINDLE_CLAMPING			H02	QV: FBT
-	Spindle clamping enable (C axis)			BYTE	Immediately
				6.3	
ST		ST: 0	0	1	3/4

9849	ST_CYCLE_SUB_SP_PARK_POS_Y			H02	QV:
mm	Parkposition der Y-Achse bei Gegenspindel			DOUBLE	Immediately
ST		ST: 0	0	0	3/4

9850	ST_CYCLE_THREAD_RETURN_DIST			H02	QV: FBT
mm	Return distance f. thread turning			DOUBLE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 2	0.001	1000	3/4

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9851	ST_CYCLE_SUB_SP_WORK_POS			H02	QV: FBT
mm	Retract position Z for counterspindle			DOUBLE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	0	3/4

9852	ST_CYCLE_SUB_SP_DIST			H02	QV: FBT
mm	Counterspindle: travel path to fixed stop			DOUBLE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 10	0.001	1000	3/4

9853	ST_CYCLE_SUB_SP_FEED			H02	QV: FBT
mm/min	Counterspindle: travel feed to fixed stop			DOUBLE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 0	0	0	3/4

9854	ST_CYCLE_SUB_SP_FORCE			H02	QV: FBT
	Counterspin.: travel force to fixed stop			BYTE	Immediately
				840D SW 6.1, 810D SW 4.1	
ST		ST: 10	1	100	3/4

9855	ST_CYCLE_TAP_SETTINGS			H02	QV: FBT
-	Tapping settings			INTEGER	Immediately
				6.3	
ST		ST: 0	0	0	3/4

9856	ST_CYCLE_TAP_MID_SETTINGS			H02	QV: FBT
-	Centric tapping settings			INTEGER	Immediately
ST		ST: 0	0	0	3/4

9857	ST_CYCLE_RET_DIST_FIXEDSTOP			H02	QV: FBT
mm	Retr.path prior to chuck. after fixed stop			DOUBLE	Immediately
				6.3	
ST		ST: 0	0	10	3/4

9858	ST_CYCLE_RET_DIST_PART_OFF			H02	QV: FBT
mm	Retr. path prior to cut-off w. count.sp.			DOUBLE	Immediately
				6.3	
ST		ST: 0	0	1	3/4

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9859	ST_CYCLE_PART_OFF_CTRL_DIST			H02	QV: FBT
mm	Path for cut-off check			DOUBLE	Immediately
				6.3	
ST		ST: 0.1	0	10	3/4

9860	ST_CYCLE_PART_OFF_CTRL_FEED			H02	QV: FBT
mm/min	Feedrate for cut-off check			DOUBLE	Immediately
ST		ST: 0	0	0	3/4

9861	ST_CYCLE_PART_OFF_CTRL_FORC			H02	QV: FBT
%	Force in percent for cut-off check			BYTE	Immediately
				6.3	
ST		ST: 10	1	100	3/4

9862	ST_CYC_DRILL_MID_MAX_ECCENT			H02	QV: FBT
mm	Max. center offset f. center boring			DOUBLE	Immediately
				6.4	
ST		ST: 0.5	0.0	10.0	3/4

9863	ST_MAX_INP_AREA_GAMMA			H02	QV:
-	Max. input area alignment angle gamma			DOUBLE	Immediately
ST		ST: 5	0	90	3/4

9890	ST_USER_CLASS_MEAS_T_CAL			H02	QV:
-	Protection level for calibration of tool p			BYTE	Immediately
				7.1	
ST		ST: 3	0	7	3/4

9897	ST_OPTION_MASK_MAN_FUNC			H02	QV: FBT
-	Settings for ShopTurn manual functions			INTEGER	Immediately
				7.1	
ST		ST: 8	0	0	3/4

9898	ST_OPTION_MASK			H02	QV: FBT
-	ShopTurn settings			INTEGER	Immediately
				6.3	
ST		ST: 28672	0	0	2/2

9899	ST_TRACE			H02	QV: FBT
-	Test flags internal ShopTurn diagnosis			REAL	Immediately
				6.3	
ST		ST: 0	0	0xFFFF	3/4

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9899	**ST_TRACE**			H02	**QV:** FBT
-	Test flags internal ShopTurn diagnosis			REAL	Immediately
				6.3	
ST		ST: 0	0	0xFFFF	3/4

9900	**MD_TEXT_SWITCH**			H05	**QV:** -
-	Plaintexts instead of MD identifier			BOOL	Immediately
				SW2	
Adv, Emb		Emb: 0	0	0	3/4

9950	**MD_NC_TEA_FILTER**			H05	**QV:**
-	General machine data display options			INTEGER	Power On
Emb		Emb: 67108865	0	0	0/0

9950	**MD_NC_TEA_FILTER**			H05	**QV:**
-	General machine data display options			INTEGER	Power On
Emb		Emb: 67108865	0	0	0/0

9951	**MD_NC_TEA_IDX_LIMIT**			H05	**QV:**
-	Index filter for general machine data			INTEGER	Power On
Emb		Emb: 0	0	0	0/0

9952	**MD_AX_TEA_FILTER**			H05	**QV:**
-	Axis machine data display options			INTEGER	Power On
Emb		Emb: 67108865	0	0	0/0

9952	**MD_AX_TEA_FILTER**			H05	**QV:**
-	Axis machine data display options			INTEGER	Power On
Emb		Emb: 67108865	0	0	0/0

9953	**MD_AX_TEA_IDX_LIMIT**			H05	**QV:**
-	Index filter for axis machine data			INTEGER	Power On
Emb		Emb: 0	0	0	0/0

9954	**MD_CH_TEA_FILTER**			H05	**QV:**
-	Channel machine data display options			INTEGER	Power On
Emb		Emb: 33554433	0	0	0/0

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9954	**MD_CH_TEA_FILTER**			H05	**QV:**
-	Channel machine data display options			INTEGER	Power On
Emb		Emb: 33554433	0	0	0/0

9955	**MD_CH_TEA_IDX_LIMIT**			H05	**QV:**
-	Index filter for channel machine data			INTEGER	Power On
Emb		Emb: 0	0	0	0/0

9956	**MD_DRV_TEA_FILTER**			H05	**QV:**
-	Drive machine data display options			INTEGER	Power On
Emb		Emb: 8388609	0	0	0/0

9956	**MD_DRV_TEA_FILTER**			H05	**QV:**
-	Drive machine data display options			INTEGER	Power On
Emb		Emb: 8388609	0	0	0/0

9957	**MD_DRV_TEA_IDX_LIMIT**			H05	**QV:**
-	Index filter for drive machine data			INTEGER	Power On
Emb		Emb: 0	0	0	0/0

9958	**MD_SNX_FILTER**			H05	**QV:**
-	Display options Sinamics parameters			INTEGER	Power On
Emb		Emb: 0	0	0	0/0

9959	**MD_SNX_IDX_LIMIT**			H05	**QV:**
-	Index filter for Sinamics parameters			INTEGER	Power On
Emb		Emb: 0	0	0	0/0

9980	**LANGUAGE_SETTINGS**			H05	**QV:**
-	Internal language settings			INTEGER	Power On
Emb		Emb: 513	0	0	0/0

9990	**SW_OPTIONS**			H05	**QV:** FBSP, FBT
-	Enable MMC/HMI software options			INTEGER	Power On
				5.3	
Adv, Emb		Emb: 0	0	0	2/2

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9991	**HMI_HELP_SYSTEMS**			H05	**QV:** FBSP, FBT
-	Enable MMC/HMI auxiliary systems			INTEGER	Power On
				6.1	
Emb		Emb: 1	0	0	2/2

9992	**HMI_TESTAUTOMAT_OPTION**			H05	**QV:** FBT, FBSP, EMB
-	Options for autom. HMI test machine			INTEGER	Power On
				6.3	
Emb		Emb: 0	0	0	2/2

9993	**HMI_WIZARD_OPTION**			H05	**QV:** FBT, FBSP, EMB
-	Options for wizard			INTEGER	Power On
				6.3	
Emb		Emb: 0	0	0	2/2

9999	**TRACE**			H05	**QV:** -
-	Test flags for internal diagnosis			INTEGER	Power On
				-	
Adv, Emb		Emb: 0	0	0xFFFF	2/2

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2.3 General machine data

Number	Identifier			Display filters	Reference
Unit	Name			Data type	Active
Attributes					
System	Dimension	Default value	Minimum value	Maximum value	Protection

2.3.1 System settings

10000	AXCONF_MACHAX_NAME_TAB			N01, N11	K2
-	Machine axis name			STRING	POWER ON
-					
-	31	"X1","Y1","Z1","A1","B1","C1","U1"...	-	-	7/2
840d-2a2c	2	"X1","Y1"	-	-	-/-
840d-4a1cg	4	"X1","Y1","Z1","A1"	-	-	-/-
840d-6a2c	-	"X1","Y1","Z1","A1","B1","C1"	-	-	-/-

10002	AXCONF_LOGIC_MACHAX_TAB			N01	B3
-	Logical NCK machine axis image			STRING	POWER ON
-					
-	31	"AX1","AX2","AX3","AX4","AX5","AX6"...	-	-	3/2
840d-2a2c	2	-	-	-	-/-
840d-4a1cg	4	-	-	-	-/-

10010	ASSIGN_CHAN_TO_MODE_GROUP			N01, N02, N11	K1,IAD
-	Channel valid in mode group			DWORD	POWER ON
-					
-	10	1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	10	7/2
840d-2a2c	2	-	-	-	-/-
840d-4a1cg	1	-	-	-	-/-

10050	SYSCLOCK_CYCLE_TIME			N01, N05, N11, -	G3
s	System clock cycle			DOUBLE	POWER ON
SFCO					
-	-	0.004	0.000125	0.031	7/2

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10059	PROFIBUS_ALARM_MARKER			N05	G3
-	Profibus alarm flag (internal only)			BYTE	POWER ON
NBUP, NDLD					
-	-	0	-	-	0/0

10060	POSCTRL_SYSCLOCK_TIME_RATIO			N01, N05	G3
-	Factor for position control cycle			DWORD	POWER ON
SFCO					
-	-	1	1	31	7/2

10061	POSCTRL_CYCLE_TIME			N01, N05	G3
-	Position control cycle			DOUBLE	POWER ON
READ					
-	-	0.0	-	-	7/0

10062	POSCTRL_CYCLE_DELAY			N01, N05	G3
s	Position control cycle offset			DOUBLE	POWER ON
-					
-	-	0.003	0.000	0.008	7/2

10063	POSCTRL_CYCLE_DIAGNOSIS			N01, N05, EXP	-
s	Active timing			DOUBLE	POWER ON
-, READ					
-	3	0.0,0.0,0.0	-	-	7/2

10065	POSCTRL_DESVAL_DELAY			N01	B3
s	Position setpoint delay			DOUBLE	POWER ON
-					
-	-	0.0	-0.1	0.1	7/2

10070	IPO_SYSCLOCK_TIME_RATIO			N01, N05, N11, -	G3
-	Factor for interpolation cycle			DWORD	POWER ON
SFCO					
-	-	4	1	100	7/2
840d-2a2c	-	3	-	-	-/-
840d-4a1cg	-	3	-	-	-/-
840d-6a2c	-	3	-	-	-/-
840d-12a2c	-	3	-	-	-/-

10071	IPO_CYCLE_TIME			N01, N05, N11, -	G3
-	Interpolator cycle			DOUBLE	POWER ON
READ					
-	-	0.0	-	-	7/0

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10072	COM_IPO_TIME_RATIO			N01, N05	-
-	Division ratio between IPO and communication task			DOUBLE	POWER ON
-					
-	-	1.0	0.0	100.0	7/2

10073	COM_IPO_STRATEGY			EXP	-
-	Strategy for activation of communication.			DWORD	POWER ON
-					
-	-	0x2B	1	0x7F	0/0

10074	PLC_IPO_TIME_RATIO			N01, N05	-
-	Factor of PLC task for the main run.			DWORD	POWER ON
-					
-	-	1	1	50	0/0

10075	PLC_CYCLE_TIME			N01, N05	-
-	PLC cycle time			DOUBLE	POWER ON
READ					
-	-	0.0	-	-	1/1

10080	SYSCLOCK_SAMPL_TIME_RATIO			EXP, N01	G3
-	Division ratio for actual value recording cycle time			DWORD	POWER ON
-					
-	-	5	1	31	0/0
840d-2a2c	-	4	-	-	-/-
840d-4a1cg	-	4	-	-	-/-
840d-6a2c	-	4	-	-	-/-
840d-12a2c	-	4	-	-	-/-

10082	CTRLOUT_LEAD_TIME			EXP, N01, -	K3
%	Shift of setpoint transfer time			DOUBLE	POWER ON
-					
-	-	0.0	0.0	100.0	7/2

10083	CTRLOUT_LEAD_TIME_MAX			EXP, N01	K3
%	Max. settable offset of setpoint transfer time			DOUBLE	NEW CONF
-					
-	-	100.0	0.0	100.0	7/2

10088	REBOOT_DELAY_TIME			EXP	-
s	Reboot delay			DOUBLE	SOFORT
-					
-	-	0.2	0.0	1.0	2/2

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10089	SAFE_PULSE_DIS_TIME_BUSFAIL			N01, N06, -	FBSI
s	Delay time pulse suppr. for bus failure			DOUBLE	POWER ON
-					
-	-	0.0	0	0.8	7/2

10090	SAFETY_SYSCLOCK_TIME_RATIO			N01, N06, -	FBSI
-	Factor for monitoring cycle			DWORD	POWER ON
SFCO					
-	-	3	1	50	7/1

10091	INFO_SAFETY_CYCLE_TIME			N01, N06, N05, -	FBSI
s	Display of monitoring cycle time			DOUBLE	POWER ON
READ					
-	-	0.0	-	-	7/0

10092	INFO_CROSSCHECK_CYCLE_TIME			N01, N06, N05, -	FBSI
s	Display of cycle time for cross-checking			DOUBLE	POWER ON
READ					
-	-	0.0	-	-	7/0

10093	INFO_NUM_SAFE_FILE_ACCESS			EXP, N06, N05, -	FBSI
-	Number of SPL file accesses			DWORD	POWER ON
READ					
-	-	0	-	-	0/0

10094	SAFE_ALARM_SUPPRESS_LEVEL			EXP, N06, N05, -	FBSI
-	Alarm suppress level			BYTE	POWER ON
-					
-	-	2	0	13	7/2

10095	SAFE_MODE_MASK			EXP, N05, -	FBSI
-	'Safety Integrated' operating modes			DWORD	POWER ON
-					
-	-	0	0	0x0001	7/2

10096	SAFE_DIAGNOSIS_MASK			EXP, N06, N05, -	FBSI
-	'Safety Integrated' diagnosis functions			DWORD	NEW CONF
-					
-	-	1	0	0x0003	7/2

10097	SAFE_SPL_STOP_MODE			N01, N06, -	FBSI
-	Stop reaction for SPL errors			BYTE	POWER ON
-					
-	-	3	3	4	7/2

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10098	PROFISAFE_IPO_TIME_RATIO			N01, N06, -	FBSI
-	Factor for PROFIsafe communication			DWORD	POWER ON
SFCO					
-	-	1	1	25	7/1

10099	INFO_PROFISAFE_CYCLE_TIME			N01, N06, N05, -	FBSI
s	PROFIsafe communication cycle time			DOUBLE	POWER ON
READ					
-	-	0.0	-	-	7/0

10100	PLC_CYCLIC_TIMEOUT			EXP, N01, N06	P3
s	Maximum PLC cycle time			DOUBLE	POWER ON
-					
-	-	0.1	-	-	7/2

10110	PLC_CYCLE_TIME_AVERAGE			N01, N07	B1
s	Average PLC acknowledgement time			DOUBLE	POWER ON
-					
-	-	0.05	-	-	7/2

10120	PLC_RUNNINGUP_TIMEOUT			EXP, N01, N06	H2
s	Monitoring time for PLC power up			DOUBLE	POWER ON
-					
-	-	50.0	-	-	7/2

10130	TIME_LIMIT_NETTO_COM_TASK			EXP, N01	OEM
s	Runtime limitation of communication to HMI			DOUBLE	POWER ON
-					
-	-	0.005	.001	0.100	7/1

10131	SUPPRESS_SCREEN_REFRESH			EXP	A2
-	Screen refresh response under overload			BYTE	POWER ON
-					
-	-	0	0	2	7/2

10132	MMC_CMD_TIMEOUT			EXP, N01, N06	PA,M4
s	Monitoring time for HMI command in the part program			DOUBLE	POWER ON
-					
-	-	3.0	0.0	100.0	7/2

10134	MM_NUM_MMC_UNITS			EXP, N01, N02	B3
-	Possible number of simultaneous HMI communication partners			DWORD	POWER ON
-					
-	-	6	1	10	2/2

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10136	DISPLAY_MODE_POSITION			N01	-
-	Display mode for actual position in the WCS			DWORD	RESET
-					
-	-	0	0	1	7/1

10140	TIME_LIMIT_NETTO_DRIVE_TASK			EXP, N01	ECO
s	Runtime limit of drive communications sub-task			DOUBLE	POWER ON
-					
-	-	0.02	.001	.5	7/1

10150	PREP_DRIVE_TASK_CYCLE_RATIO			EXP, N01	ECO
-	Factor for communication with drive			DWORD	POWER ON
-					
-	-	2	1	50	7/1

10160	PREP_COM_TASK_CYCLE_RATIO			EXP, N01	ECO
-	Factor for communication with HMI			DWORD	POWER ON
-					
-	-	3	1	50	7/1

10161	COM_CONFIGURATION			EXP, N01	-
-	Configuration of communication			DWORD	POWER ON
-					
-	8	5, 5,18, 1,16, 8,18,18	-	-	0/0

10185	NCK_PCOS_TIME_RATIO			EXP, N01	-
-	Processing time share NCK			DWORD	POWER ON
-					
-	-	100	0	100	0/0

10190	TOOL_CHANGE_TIME			N01	BA
-	Tool changing time for simulation			DOUBLE	POWER ON
-					
-	-	0.	-	-	7/2

10192	GEAR_CHANGE_WAIT_TIME			N01	S1
s	Gear stage change waiting time			DOUBLE	POWER ON
-					
-	-	10.0	0.0	1.0e5	7/2

10200	INT_INCR_PER_MM			N01	G2
-	Calculation resolution for linear positions			DOUBLE	POWER ON
-					
-	-	1000.	1.0	1.0e9	7/2

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10210	INT_INCR_PER_DEG			N01	G2
-	Calculation resolution for angular positions			DOUBLE	POWER ON
-					
-	-	1000.0	1.0	1.0e9	7/2

10220	SCALING_USER_DEF_MASK			EXP, N01	G2
-	Activation of scaling factors			DWORD	POWER ON
SCAL					
-	-	0x200	0	0x3FFF	7/2

10230	SCALING_FACTORS_USER_DEF			EXP, N01	G2
-	Scaling factors of physical variables			DOUBLE	POWER ON
SCAL					
-	15	1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0...	1e-9	-	7/2

10240	SCALING_SYSTEM_IS_METRIC			N01	G2
-	Basic system metric			BOOLEAN	POWER ON
SCAL					
-	-	TRUE	-	-	7/2

10250	SCALING_VALUE_INCH			EXP	G2
-	Conversion factor for INCH			DOUBLE	POWER ON
SCAL					
-	-	25.4	1e-9	-	0/0

10260	CONVERT_SCALING_SYSTEM			EXP	A3,G2
-	Enable basic system conversion			BOOLEAN	POWER ON
LINK					
-	-	FALSE	-	-	1/1

10270	POS_TAB_SCALING_SYSTEM			N01, N09	T1
-	System of units of position tables			BYTE	RESET
-					
-	-	0	0	1	7/2

10280	PROG_FUNCTION_MASK			EXP, N01	K1
-	Comparing (> and <) compatible with SW6.3			DWORD	POWER ON
-					
-	-	0x0	0	0x2	7/2

10284	DISPLAY_FUNCTION_MASK			EXP, N01	-
-	BTSS-variable lastBlockNoStr active			DWORD	POWER ON
-					
-	-	0x0	-	-	7/2

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10290	CC_TDA_PARAM_UNIT			N09	G2
-	Physical units of tool data for compile cycles			DWORD	POWER ON
-					
-	10	0,0,0,0,0,0,0,0,0,0	0	9	2/2

10291	CCS_TDA_PARAM_UNIT			N09	-
-	physical units of SIEMENS-OEM tool data			DWORD	POWER ON
-					
-	10	0,0,0,0,0,0,0,0,0,0	0	9	2/2

10292	CC_TOA_PARAM_UNIT			N09	G2
-	Physical units of cutting edge data for compile cycles			DWORD	POWER ON
-					
-	10	0,0,0,0,0,0,0,0,0,0	0	9	2/2

10293	CCS_TOA_PARAM_UNIT			N09	-
-	Physical units of SIEMENS-OEM cutting edge data			DWORD	POWER ON
-					
-	10	0,0,0,0,0,0,0,0,0,0	0	9	2/2

10300	FASTIO_ANA_NUM_INPUTS			N10	A4
-	Number of active analog NCK inputs			BYTE	POWER ON
-					
-	-	0	0	8	7/2

10310	FASTIO_ANA_NUM_OUTPUTS			N10	A4
-	Number of active analog NCK outputs			BYTE	POWER ON
-					
-	-	0	0	8	7/2

10320	FASTIO_ANA_INPUT_WEIGHT			N10	A4
-	Weighting factor for analog NCK inputs			DWORD	POWER ON
-					
-	8	10000,10000,10000,10000,10000,10000...	1	10000000	7/2

10330	FASTIO_ANA_OUTPUT_WEIGHT			N10	A4
-	Weighting factor for analog NCK outputs			DWORD	POWER ON
-					
-	8	10000,10000,10000,10000,10000,10000...	1	10000000	7/2

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10350	FASTIO_DIG_NUM_INPUTS			N10	A4
-	Number of active digital NCK input bytes			BYTE	POWER ON
-					
-	-	1	0	5	7/2

10360	FASTIO_DIG_NUM_OUTPUTS			N10	A4
-	Number of active digital NCK output bytes			BYTE	POWER ON
-					
-	-	0	0	5	7/2

10361	FASTIO_DIG_SHORT_CIRCUIT			N10	A2
-	Short circuit of digital inputs and outputs			DWORD	POWER ON
-					
-	10	0,0,0,0,0,0,0,0,0,0	-	-	7/2

10362	HW_ASSIGN_ANA_FASTIN			N10	A4
-	Hardware assignment of the fast analog NCK inputs			DWORD	POWER ON
-					
-	8	0x01000000,0x01000000,0x01000000...	0x01000000	0x060003FF	7/2

10364	HW_ASSIGN_ANA_FASTOUT			N10	A4
-	Hardware assignment of external analog NCK outputs			DWORD	POWER ON
-					
-	8	0x01000000,0x01000000,0x01000000...	0x01000000	0x060003FF	7/2

10366	HW_ASSIGN_DIG_FASTIN			N10	A4
-	Hardware assignment of external digital NCK inputs			DWORD	POWER ON
-					
-	10	0x01000000,0x01000000,0x01000000...	0x01000000	0x060003FF	7/2

10368	HW_ASSIGN_DIG_FASTOUT			N10	A4
-	Hardware assignment of external digital NCK outputs			DWORD	POWER ON
-					
-	4	0x01000000,0x01000000,0x01000000...	0x01000000	0x060003FF	7/2

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10380	HW_UPDATE_RATE_FASTIO			EXP, N10	A4
-	Updating rate of clocked external NCK I/Os			BYTE	POWER ON
-					
-	5	2,2,2,2,3	2	3	7/2

10382	HW_LEAD_TIME_FASTIO			EXP, N10	A4
-	Lead time of clocked external NCK I/Os			DWORD	POWER ON
-					
-	5	100,100,100,100,100	-	-	7/2

10384	HW_CLOCKED_MODULE_MASK			N10	A4
-	Synchronous processing of external NCK I/Os			BYTE	POWER ON
-					
-	5	0,0,0,0,0	-	-	7/2

10385	PROFISAFE_MASTER_ADDRESS			N01, N06, -	FBSI
-	PROFIsafe address PROFIsafe master module			DWORD	POWER ON
-					
-	-	0	0	0x0500FA7D	7/2

10386	PROFISAFE_IN_ADDRESS			N01, N06, -	FBSI
-	PROFIsafe address input module			DWORD	POWER ON
-					
-	16	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	0x0501FFFF	7/2

10387	PROFISAFE_OUT_ADDRESS			N01, N06, -	FBSI
-	PROFIsafe-address output module			DWORD	POWER ON
-					
-	16	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	0x0501FFFF	7/2

10388	PROFISAFE_IN_ASSIGN			N01, N06, -	FBSI
-	Input.assignment $A_INSE to PROFIsafe module			DWORD	POWER ON
-					
-	16	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	64064	7/2

10389	PROFISAFE_OUT_ASSIGN			N01, N06, -	FBSI
-	Outp.assignment $A_OUTSE to PROFIsafe module			DWORD	POWER ON
-					
-	16	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	64064	7/2

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10390	SAFE_IN_HW_ASSIGN			N01, N06, -	FBSI
-	Input assignment of external SPL interface			DWORD	POWER ON
-					
-	8	0,0,0,0,0,0,0,0	-	-	7/2

10392	SAFE_OUT_HW_ASSIGN			N01, N06, -	FBSI
-	Output assignment ext. interface SPL			DWORD	POWER ON
-					
-	8	0,0,0,0,0,0,0,0	-	-	7/2

10393	SAFE_DRIVE_LOGIC_ADDRESS			N01, N06, -	-
-	Logical drive addresses SI			DWORD	POWER ON
-					
-	31	6700,6724,6748,6772,6796,6820,6844...	258	8191	7/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

10394	PLCIO_NUM_BYTES_IN			N10	A2
-	Number of directly readable input bytes of the PLC I/Os			BYTE	POWER ON
-					
-	-	0	0	32	7/2

10395	PLCIO_LOGIC_ADDRESS_IN			N10	A2
-	Start addr. of the directly readable input bytes of the PLC I/Os			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10396	PLCIO_NUM_BYTES_OUT			N10	A2
-	Number of directly writable output bytes of the PLC I/Os			BYTE	POWER ON
-					
-	-	0	0	32	7/2

10397	PLCIO_LOGIC_ADDRESS_OUT			N10	A2
-	Start addr. of the directly writable output bytes of PLC I/O			DWORD	POWER ON
-					
-	-	0	-	-	7/2

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10398	PLCIO_IN_UPDATE_TIME			N10	A4
s	Update time for PLCIO input cycle			DOUBLE	POWER ON
-					
-	-	0.0	0	10000	7/2

10399	PLCIO_TYPE_REPRESENTATION			N10	A4
-	Little/Big Endian for PLCIO			BYTE	POWER ON
-					
-	-	0	0	1	7/2

10400	CC_VDI_IN_DATA			EXP, N02	OEM
-	Number of input bytes for compile cycles			DWORD	POWER ON
-					
-	-	0	0	1024	7/1

10410	CC_VDI_OUT_DATA			EXP, N02	OEM
-	Number of output bytes for compile cycles			DWORD	POWER ON
-					
-	-	0	0	1024	7/1

10420	CC_ASSIGN_FASTOUT_MASK			EXP, N10	OEM
-	Reservation of external outputs for compile cycles			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10430	CC_HW_DEBUG_MASK			EXP	OEM
-	Hardware debug mask for compile cycles			DWORD	POWER ON
NBUP, NDLD					
-	-	0	-	-	7/1

10450	SW_CAM_ASSIGN_TAB			N09	N3
-	Assignment of software cams to machine axes			BYTE	POWER ON
-					
-	32	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0...	0	31	7/2

10460	SW_CAM_MINUS_LEAD_TIME			N09	N3
s	Lead or delay time at minus cams 1-16			DOUBLE	POWER ON
-					
-	32	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/2

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10461	SW_CAM_PLUS_LEAD_TIME			N09	N3
s	Lead or delay time at plus cams 1-16			DOUBLE	POWER ON
-					
-	32	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/2

10470	SW_CAM_ASSIGN_FASTOUT_1			N09	N3
-	Hardware assignment for output of cams 1-8 to NCK I/Os			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10471	SW_CAM_ASSIGN_FASTOUT_2			N09	N3
-	Hardware assignment for the output of cams 9-16 to NCK I/Os			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10472	SW_CAM_ASSIGN_FASTOUT_3			N09	N3
-	Hardware assignment for output of cams 17-24 to NCK I/Os			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10473	SW_CAM_ASSIGN_FASTOUT_4			N09	N3
-	Hardware assignment for output of cams 25-32 to NCK I/Os			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10480	SW_CAM_TIMER_FASTOUT_MASK			N09	N3
-	Mask for output of cam signals via timer interr. to NCU			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10485	SW_CAM_MODE			N09	N3
-	Behavior of SW cams			DWORD	POWER ON
-					
-	-	0	-	-	7/2

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10490	SW_CAM_COMP_NCK_JITTER			N09	-
s	Cam jitter compensation			DOUBLE	NEW CONF
-					
-	-	0	0.0	0.0001	7/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

10500	DPIO_LOGIC_ADDRESS_IN			N10	-
-	Logical slot address of the PROFIBUS I/Os			DWORD	POWER ON
-					
-	MD_MAXNUM_DPIO_RANGE_IN	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	8191	7/2

10501	DPIO_RANGE_LENGTH_IN			N10	-
-	Length of the PROFIBUS I/O range			DWORD	POWER ON
-					
-	MD_MAXNUM_DPIO_RANGE_IN	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	MD_MAXNUM_DPIO_BYTES_RANGE_IN	7/2

10502	DPIO_RANGE_ATTRIBUTE_IN			N10	-
-	Attributes of the PROFIBUS I/Os			DWORD	POWER ON
-					
-	MD_MAXNUM_DPIO_RANGE_IN	0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01...	0x00	0x0F	7/2

10510	DPIO_LOGIC_ADDRESS_OUT			N10	-
-	Logical slot address of the PROFIBUS I/Os			DWORD	POWER ON
-					
-	MD_MAXNUM_DPIO_RANGE_OUT	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	8191	7/2

10511	DPIO_RANGE_LENGTH_OUT			N10	-
-	Length of the PROFIBUS I/O range			DWORD	POWER ON
-					
-	MD_MAXNUM_DPIO_RANGE_OUT	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	MD_MAXNUM_DPIO_BYTES_RANGE_OUT	7/2

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10512	DPIO_RANGE_ATTRIBUTE_OUT			N10	-
-	Attributes of the PROFIBUS I/Os			DWORD	POWER ON
-					
-	MD_MAXNUM_DPIO_RANGE_OUT	0x01,0x01,0x01,0x01,0x01,0x01,0x01,0x01...	0x00	0x0F	7/2

10530	COMPAR_ASSIGN_ANA_INPUT_1			N10	A4
-	Hardware assignment of analog inputs for comparator byte 1			BYTE	POWER ON
-					
-	8	0,0,0,0,0,0,0,0	-	-	7/2

10531	COMPAR_ASSIGN_ANA_INPUT_2			N10	A4
-	Hardware assignment of analog inputs for comparator byte 2			BYTE	POWER ON
-					
-	8	0,0,0,0,0,0,0,0	-	-	7/2

10540	COMPAR_TYPE_1			N10	A4
-	Parameterization for comparator byte 1			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10541	COMPAR_TYPE_2			N10	A4
-	Parameterization of comparator byte 2			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10600	FRAME_ANGLE_INPUT_MODE			EXP, N01, N09	K2
-	Sequence of rotation in FRAME			BYTE	POWER ON
-					
-	-	1	1	2	7/2

10602	FRAME_GEOAX_CHANGE_MODE			EXP, N01, N09	K2
-	Frames when changing geometry axes			BYTE	POWER ON
-					
-	-	0	0	5	7/2

10604	WALIM_GEOAX_CHANGE_MODE			EXP, N01, N09	A3
-	Working area limitation by changing geometry axes			BYTE	POWER ON
-					
-	-	0	0	1	7/2

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10610	MIRROR_REF_AX			EXP, N01, N09	K2
-	Reference axis for mirroring			BYTE	POWER ON
-					
-	-	0	0	3	7/2

10612	MIRROR_TOGGLE			EXP, N01, N09	K2
-	Mirror toggle			BYTE	POWER ON
-					
-	-	1	0	1	7/2

10613	NCBFRAME_RESET_MASK			EXP	K2
-	Active NCU global base frames after reset			DWORD	RESET
-					
-	-	0xFFFF	0	0xFFFF	7/2

10615	NCBFRAME_POWERON_MASK			EXP, N12	K2
-	Reset global base frames after power on			DWORD	POWER ON
-					
-	-	0	0	0xFFFF	7/2

10617	FRAME_SAVE_MASK			EXP	K1,PGA
-	Behavior of frames in SAVE subroutines			DWORD	POWER ON
-					
-	-	0	0	0x3	7/2

10618	PROTAREA_GEOAX_CHANGE_MODE			EXP, N01, N09	A3
-	Protection range on change of geometry axes			BYTE	POWER ON
-					
-	-	0	0	3	7/2

10619	COLLISION_TOLERANCE			EXP	-
mm	Tolerance for collision check			DOUBLE	NEW CONF
-					
-	-	1	0.001	1000.0	7/2

10620	EULER_ANGLE_NAME_TAB			N01, N09	F2
-	Name of Euler angle			STRING	POWER ON
-					
-	3	"A2","B2","C2"	-	-	7/2

10624	ORIPATH_LIFT_VECTOR_TAB			N01, N09	-
-	Name of retraction vector for path-relative orientation.			STRING	POWER ON
-					
-	3	"A8","B8","C8"	-	-	7/2

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10626	ORIPATH_LIFT_FACTOR_NAME			N01, N09	-
-	Name of relative safety clearance with ORIPATH			STRING	POWER ON
-					
-	-	"ORIPLF"	-	-	7/2

10630	NORMAL_VECTOR_NAME_TAB			N01, N09	F2
-	Name of normal vectors			STRING	POWER ON
-					
-	6	"A4","B4","C4","A5", "B5","C5"	-	-	7/2

10640	DIR_VECTOR_NAME_TAB			N01, N09	F2
-	Name of direction vectors			STRING	POWER ON
-					
-	6	"A3","B3","C3","AN3 ","BN3","CN3"	-	-	7/2

10642	ROT_VECTOR_NAME_TAB			N01, N09	F2
-	Name of rotation vectors			STRING	POWER ON
-					
-	3	"A6","B6","C6"	-	-	7/2

10644	INTER_VECTOR_NAME_TAB			N01, N09	F2
-	Name of intermediate vector components			STRING	POWER ON
-					
-	3	"A7","B7","C7"	-	-	7/2

10646	ORIENTATION_NAME_TAB			N01, N09	F2
-	Identifiers for programming a second orientation path			STRING	POWER ON
-					
-	3	"XH","YH","ZH"	-	-	7/2

10648	NUTATION_ANGLE_NAME			N01, N09	F2
-	Name of aperture angle			STRING	POWER ON
-					
-	-	"NUT"	-	-	7/2

10650	IPO_PARAM_NAME_TAB			EXP, N01	K2
-	Name of interpolation parameters			STRING	POWER ON
-					
-	3	"I","J","K"	-	-	7/2

10652	CONTOUR_DEF_ANGLE_NAME			EXP, N01, N12	FBFA
-	Name of angle for contour definitions			STRING	POWER ON
-					
-	-	"ANG"	-	-	0/0

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10654	RADIUS_NAME			EXP, N01, N12	FBFA
-	Name of radius for contour definitions			STRING	POWER ON
-					
-	-	"RND"	-	-	0/0

10656	CHAMFER_NAME			EXP, N01, N12	FBFA
-	Name of chamfer for contour definitions			STRING	POWER ON
-					
-	-	"CHR"	-	-	0/0

10660	INTERMEDIATE_POINT_NAME_TAB			EXP, N01	K2
-	Name of interpolation point coordinates for G2/G3			STRING	POWER ON
-					
-	3	"I1","J1","K1"	-	-	7/2

10670	STAT_NAME			N01, N09	F2
-	Name of state information			STRING	POWER ON
-					
-	-	"STAT"	-	-	7/2

10672	TU_NAME			N01, N09	F2
-	Name of state information of axes			STRING	POWER ON
-					
-	-	"TU"	-	-	7/2

10674	PO_WITHOUT_POLY			N01	F2
-	Polynomial programming programmable without G function POLY			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

10700	PREPROCESSING_LEVEL			N01, N02	V2
-	Program preprocessing level			BYTE	POWER ON
-					
-	-	1	-	-	2/2

10702	IGNORE_SINGLEBLOCK_MASK			N01	K1
-	Prevents stopping at specific blocks in single block mode			DWORD	POWER ON
-					
-	-	0	0	0xFFFF	7/2

10704	DRYRUN_MASK			N01	V1
-	Dry run feedrate activation			BYTE	POWER ON
-					
-	-	0	0	2	7/2

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10706	SLASH_MASK			N01	PG,A2
-	Activation of block skip			BYTE	POWER ON
-					
-	-	0	0	2	7/2

10707	PROG_TEST_MASK			N01	K1
-	Program test mode			DWORD	POWER ON
-					
-	-	1	0	1	7/2

10708	SERUPRO_MASK			N01	K1
-	Seach run modes			DWORD	POWER ON
-					
-	-	0	0	15	7/2

10710	PROG_SD_RESET_SAVE_TAB			EXP, N01	K1
-	Setting data to be updated			DWORD	POWER ON
-					
-	30	0,0,0,

10715	M_NO_FCT_CYCLE			EXP, N12, N07	FBFA,K1
-	M function to be replaced by a subroutine			DWORD	POWER ON
-					
-	10	-1,-1,-1,-1,-1,-1,-1,-1,-1,-1	-	-	7/2

10716	M_NO_FCT_CYCLE_NAME			EXP, N12, N07	FBFA,K1
-	Subroutine name for M function replacement			STRING	POWER ON
-					
-	10		-	-	7/2

10717	T_NO_FCT_CYCLE_NAME			EXP, N12, N07	FBFA,K1
-	Name of tool-changing cycle for T function replacement			STRING	POWER ON
-					
-	-		-	-	7/2

10718	M_NO_FCT_CYCLE_PAR			EXP, N12, N07	-
-	M function replacement with parameters			DWORD	POWER ON
-					
-	-	-1	-	-	7/2

10719	T_NO_FCT_CYCLE_MODE			EXP, N12, N07	K1
-	Setting of T function substitution			DWORD	POWER ON
-					
-	-	0	0	7	7/2

10720	OPERATING_MODE_DEFAULT			N01	H2
-	Setting of mode after power ON			BYTE	POWER ON
-					
-	10	7,7,7,7,7,7,7,7,7,7	0	12	7/2

10722	AXCHANGE_MASK			EXP, N01	K5
-	Paramameters for axis replacement behavior			DWORD	POWER ON
-					
-	-	0	0	0xFFFF	7/2

10731	JOG_MODE_KEYS_EDGETRIGGRD			EXP, N01	IAF
-	Functioning of the JOG keys			BOOLEAN	POWER ON
-					
-	-	TRUE	-	-	0/0

10735	JOG_MODE_MASK			EXP, N01	-
-	Enable JOG in automatic			DWORD	POWER ON
-					
-	-	0	0	0x1	7/2

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10760	G53_TOOLCORR			N12	FBFA
-	Method of operation of G53, G153 and SUPA			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

10780	UNLOCK_EDIT_MODESWITCH			EXP, N01	-
-	Cancel start disable when editing a part program			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	0/0

10800	EXTERN_CHAN_SYNC_M_NO_MIN			EXP, N12	FBFA
-	1st M function for channel synchronization			DWORD	POWER ON
-					
-	-	-1	-	-	7/2

10802	EXTERN_CHAN_SYNC_M_NO_MAX			EXP, N12	FBFA
-	Last M function for channel synchronization			DWORD	POWER ON
-					
-	-	-1	-	-	7/2

10804	EXTERN_M_NO_SET_INT			EXP, N12	FBFA
-	M function to activate ASUB			DWORD	POWER ON
-					
-	-	96	-	-	7/2

10806	EXTERN_M_NO_DISABLE_INT			EXP, N12	FBFA
-	M function to deactivate ASUB			DWORD	POWER ON
-					
-	-	97	-	-	7/2

10808	EXTERN_INTERRUPT_BITS_M96			EXP, N12	FBFA
-	Activate interrupt program (ASUB)			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10810	EXTERN_MEAS_G31_P_SIGNAL			EXP, N12	FBFA
-	Config. of measuring inputs for G31 P..			BYTE	POWER ON
-					
-	4	1,1,1,1	0	3	7/2

10812	EXTERN_DOUBLE_TURRET_ON			EXP, N12	FBFA
-	Double turret with G68			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

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10814	EXTERN_M_NO_MAC_CYCLE			EXP, N12	FBFA
-	Macro call via M function			DWORD	POWER ON
-					
-	10	-1,-1,-1,-1,-1,-1,-1,-1,-1,-1	-	-	7/2

10815	EXTERN_M_NO_MAC_CYCLE_NAME			EXP, N12	FBFA
-	Name of subroutine for M function macro call			STRING	POWER ON
-					
-	10		-	-	7/2

10816	EXTERN_G_NO_MAC_CYCLE			EXP, N12	FBFA
-	Macro call via G function			DOUBLE	POWER ON
-					
-	50	-1.,-1.,-1.,-1.,-1.,-1.,-1.,-1.,-1.,-1....	-	-	7/2

10817	EXTERN_G_NO_MAC_CYCLE_NAME			EXP, N12	FBFA
-	Name of subroutine for G function macro call			STRING	POWER ON
-					
-	50		-	-	7/2

10818	EXTERN_INTERRUPT_NUM_ASUP			EXP, N12	FBFA
-	Interrupt number for ASUP start (M96)			BYTE	POWER ON
-					
-	-	1	1	8	7/2

10820	EXTERN_INTERRUPT_NUM_RETRAC			EXP, N12	FBFA
-	Interrupt number for rapid retraction (G10.6)			BYTE	POWER ON
-					
-	-	2	1	8	7/2

10850	MM_EXTERN_MAXNUM_OEM_GCODES			EXP, N01, N12	-
-	Maximum number of OEM G codes			DWORD	POWER ON
-					
-	-	0	0	1000	1/1

10880	MM_EXTERN_CNC_SYSTEM			N01, N12	FBFA
-	Definition of the control system to be adapted			DWORD	POWER ON
-					
-	-	1	1	3	7/2

10881	MM_EXTERN_GCODE_SYSTEM			N01, N12	FBFA
-	ISO_3 Mode: GCodeSystem			DWORD	POWER ON
-					
-	-	0	0	2	7/2

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10882	NC_USER_EXTERN_GCODES_TAB			N12	FBFA
-	List of user-specific G commands of an external NC language			STRING	POWER ON
-					
-	60		-	-	2/2

10884	EXTERN_FLOATINGPOINT_PROG			N12	FBFA
-	Evaluation of programmed values without decimal point			BOOLEAN	POWER ON
-					
-	-	TRUE	-	-	7/2

10886	EXTERN_INCREMENT_SYSTEM			N12	FBFA
-	Incremental system in external language mode			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

10888	EXTERN_DIGITS_TOOL_NO			N12	FBFA
-	Digits for T number in ISO mode			BYTE	POWER ON
-					
-	-	2	0	8	7/2

10890	EXTERN_TOOLPROG_MODE			N12	FBFA
-	Tool change programming for external language			DWORD	POWER ON
-					
-	-	0	-	-	7/2

10900	INDEX_AX_LENGTH_POS_TAB_1			N09	T1
-	Number of positions for indexing axis table 1			DWORD	RESET
-					
-	-	0	0	60	7/2

10910	INDEX_AX_POS_TAB_1			N09	T1
mm/inch, degrees	Indexing position table 1			DOUBLE	RESET
-					
-	60	0.,0.,0.,0.,0.,0.,0.,0., 0.,0.,0.,0.,0....	-	-	7/2

10920	INDEX_AX_LENGTH_POS_TAB_2			N09	T1
-	Number of positions for indexing axis table 2			DWORD	RESET
-					
-	-	0	0	60	7/2

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10930	INDEX_AX_POS_TAB_2			N09	T1
mm/inch, degrees	Indexing position table 2			DOUBLE	RESET
-					
-	60	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/2

10940	INDEX_AX_MODE			EXP	-
-	Settings for indexing position			DWORD	POWER ON
-					
-	-	0	0	1	7/2

11100	AUXFU_MAXNUM_GROUP_ASSIGN			N01, N07, N02	H2
-	Number of auxiliary functions distr. amongst aux. fct. groups			DWORD	POWER ON
-					
-	-	1	1	255	7/2

11110	AUXFU_GROUP_SPEC			N07	H2
-	Auxiliary function group specification			DWORD	POWER ON
-					
-	64	0x81,0x21,0x41,0x41,0x41,0x41,0x41...	-	-	7/2

11120	LUD_EXTENDED_SCOPE			N01	PG
-	Function "program global user data (PUD)" is active			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

11140	GUD_AREA_SAVE_TAB			N01	-
-	Additional saving for GUD modules			DWORD	SOFORT
-					
-	9	0,0,0,0,0,0,0,0,0	-	-	7/2

11160	ACCESS_EXEC_CST			N01	-
-	Execution right for /_N_CST_DIR			BYTE	POWER ON
-					
-	-	7	-	-	7/2

11161	ACCESS_EXEC_CMA			N01	-
-	Execution right for /_N_CMA_DIR			BYTE	POWER ON
-					
-	-	7	-	-	7/2

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11162	**ACCESS_EXEC_CUS**			N01	-
-	Execution right for /_N_CUS_DIR			BYTE	POWER ON
-					
-	-	7	-	-	7/3

11165	**ACCESS_WRITE_CST**			N01	-
-	Write protection for directory /_N_CST_DIR			DWORD	POWER ON
-					
-	-	-1	-	-	7/2

11166	**ACCESS_WRITE_CMA**			N01	-
-	Write protection for directory /_N_CMA_DIR			DWORD	POWER ON
-					
-	-	-1	-	-	7/2

11167	**ACCESS_WRITE_CUS**			N01	-
-	Write protection for directory /_N_CUS_DIR			DWORD	POWER ON
-					
-	-	-1	-	-	7/3

11170	**ACCESS_WRITE_SACCESS**			N01	-
-	Write protection for _N_SACCESS_DEF			BYTE	POWER ON
-					
-	-	7	-	-	7/2

11171	**ACCESS_WRITE_MACCESS**			N01	-
-	Write protection for _N_MACCESS_DEF			BYTE	POWER ON
-					
-	-	7	-	-	7/2

11172	**ACCESS_WRITE_UACCESS**			N01	-
-	Write protection for _N_UACCESS_DEF			BYTE	POWER ON
-					
-	-	7	-	-	7/3

11200	**INIT_MD**			EXP, N01	IAF,IAD,IA
-	Standard machine data loaded at next Power On			BYTE	POWER ON
-					
-	-	0	-	-	7/2

11210	**UPLOAD_MD_CHANGES_ONLY**			N01, N05	IAD
-	Machine data backup of changed machine data only			BYTE	SOFORT
-					
-	-	0xFF	-	-	7/3

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11220	INI_FILE_MODE			N01, N05	IAD
-	Error response to INI file errors			BYTE	RESET
-					
-	-	1	0	2	7/2

11230	MD_FILE_STYLE			N01, N05	IAD
-	Structure of machine data backup files			BYTE	SOFORT
-					
-	-	3	-	-	7/3

11240	PROFIBUS_SDB_NUMBER			N01, N05	K4,FBU
-	SDB number			DWORD	POWER ON
-					
-	4	-1,-1,-1,-1	-1	7	2/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

11241	PROFIBUS_SDB_SELECT			N01, N05	-
-	SDB source selection			DWORD	POWER ON
-					
-	-	0	0	3	2/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

11250	PROFIBUS_SHUTDOWN_TYPE			EXP, N01	G3,FBU
-	Profibus shutdown handling			BYTE	POWER ON
-					
-	-	0	0	2	7/2

11270	DEFAULT_VALUES_MEM_MASK			N01	PGA
-	Activation of default values for NC language elements			DWORD	POWER ON
-					
-	-	0	-	-	7/2

11280	WPD_INI_MODE			N01	IAD
-	Handling of INI files in workpiece directory			BYTE	POWER ON
-					
-	-	0	0	1	7/2

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11285	MACH_MODEL_MODE			EXP	IAD
-	Type of file with machine model			BYTE	SOFORT
-					
-	-	0	0	1	3/3

11290	DRAM_FILESYSTEM_MASK			N01	IAD
-	Select directories in DRAM			DWORD	POWER ON
-					
-	-	0	-	-	2/2

11291	DRAM_FILESYST_SAVE_MASK			N01	IAD
-	Selection of directories in DRAM			DWORD	POWER ON
-					
-	-	0x07	-	-	2/2

11292	DRAM_FILESYST_CONFIG			EXP	-
-	Configuration of the DRAM file system			BYTE	POWER ON
-					
-	-	0x01	-	-	0/0

11294	SIEM_TRACEFILES_CONFIG			EXP	-
-	Configuration of the SIEM* trace file			DWORD	POWER ON
-					
-	-	0	-	-	2/2

11295	PROTOC_FILE_MEM			N01	-
-	Memory type for log files			BYTE	POWER ON
-					
-	10	0,0,0,0,0,0,0,0,0,0	0	1	1/1

11297	PROTOC_IPOCYCLE_CONTROL			N01	-
-	Prevent overrun of IPO time level			BYTE	POWER ON
-					
-	10	1,1,1,1,1,1,1,1,1,1	0	1	1/1

11298	PROTOC_PREPTIME_CONTROL			N01	-
-	Interruption time prep time level in seconds.			DOUBLE	POWER ON
-					
-	10	1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0...	-	-	1/1

11300	JOG_INC_MODE_LEVELTRIGGRD			N01	H1
-	INC and REF in jog mode			BOOLEAN	POWER ON
-					
-	-	TRUE	-	-	7/2

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11310	HANDWH_REVERSE			N09	H1
-	Threshold for direction change handwheel			BYTE	POWER ON
-					
-	-	2	-	-	7/2

11320	HANDWH_IMP_PER_LATCH			N09	H1
-	Handwheel pulses per detent position			DOUBLE	POWER ON
-					
-	6	1.,1.,1.,1.,1.,1.	-	-	7/2

11322	CONTOURHANDWH_IMP_PER_LATCH			N09	H1
-	Contour handwheel pulses per detent position			DOUBLE	POWER ON
-					
-	6	1.,1.,1.,1.,1.,1.	-	-	7/2

11324	HANDWH_VDI_REPRESENTATION			N01	OEM
-	Display of handwheel number in VDI Interface			DWORD	POWER ON
-					
-	-	0	0	1	7/2

11330	JOG_INCR_SIZE_TAB			EXP, N09	H1
-	Increment size for INC/handwheel			DOUBLE	POWER ON
-					
-	5	1.,10.,100.,1000.,10000.	-	-	7/2

11340	ENC_HANDWHEEL_SEGMENT_NR			EXP, N01	FBMA
-	3rd handwheel: type of drive			BYTE	POWER ON
-					
-	-	1	1	1	0/0

11342	ENC_HANDWHEEL_MODULE_NR			N01	FBMA
-	3rd handwheel: drive number / measuring circuit number			BYTE	POWER ON
-					
-	-	0	0	31	7/2

11344	ENC_HANDWHEEL_INPUT_NR			N01	FBMA
-	3rd handwheel: Input to module/meas. circ. Board			BYTE	POWER ON
-					
-	-	1	1	2	7/2

11346	HANDWH_TRUE_DISTANCE			N01	FBMA
-	Handwheel default path or velocity			BYTE	POWER ON
-					
-	-	1	0	3	7/2

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11350	HANDWHEEL_SEGMENT			N09	-
-	Handwheel segment			BYTE	POWER ON
-					
-	6	0,0,0,0,0,0	-	-	7/2
840d-2a2c	-	1,1,1,0,0,0	-	-	-/-
840d-4a1cg	-	1,1,1,0,0,0	-	-	-/-
840d-6a2c	-	1,1,1,0,0,0	-	-	-/-
840d-12a2c	-	1,1,1,0,0,0	-	-	-/-
840d-31a10c	-	1,1,1,0,0,0	-	-	-/-

11351	HANDWHEEL_MODULE			N09	-
-	Handwheel module			BYTE	POWER ON
-					
-	6	0,0,0,0,0,0	0	6	7/2
840d-2a2c	-	1,1,1,0,0,0	-	-	-/-
840d-4a1cg	-	1,1,1,0,0,0	-	-	-/-
840d-6a2c	-	1,1,1,0,0,0	-	-	-/-
840d-12a2c	-	1,1,1,0,0,0	-	-	-/-
840d-31a10c	-	1,1,1,0,0,0	-	-	-/-

11352	HANDWHEEL_INPUT			N09	-
-	Handwheel connection			BYTE	POWER ON
-					
-	6	0,0,0,0,0,0	0	6	7/2
840d-2a2c	-	1,2,3,0,0,0	-	-	-/-
840d-4a1cg	-	1,2,3,0,0,0	-	-	-/-
840d-6a2c	-	1,2,3,0,0,0	-	-	-/-
840d-12a2c	-	1,2,3,0,0,0	-	-	-/-
840d-31a10c	-	1,2,3,0,0,0	-	-	-/-

11353	HANDWHEEL_LOGIC_ADDRESS			N04, N10	-
-	Logical handwheel slot addresses			DWORD	POWER ON
-					
-	6	0,0,0,0,0,0	0	8191	7/2

11380	MONITOR_ADDRESS			EXP, N06	STZ
-	Test MD for changing the NCK code or data for Safety Integrated			DWORD	SOFORT
NBUP, NDLD					
-	-	0	-	-	0/0

11382	MONITOR_DISPLAY_INT			EXP, N06	STZ
-	INTEGER display of the addressed location			DWORD	SOFORT
NBUP, NDLD					
-	-	0	-	-	0/0

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11384	MONITOR_DISPLAY_REAL			EXP, N06	STZ
-	REAL display of the addressed location			DOUBLE	SOFORT
NBUP, NDLD					
-	-	0.0	-	-	0/0

11386	MONITOR_INPUT_INT			EXP, N06	STZ
-	INTEGER input for the addressed location			DWORD	SOFORT
NBUP, NDLD					
-	-	0	-	-	0/0

11388	MONITOR_INPUT_REAL			EXP, N06	STZ
-	REAL input for addressed location			DOUBLE	SOFORT
NBUP, NDLD					
-	-	0.0	-	-	0/0

11390	MONITOR_INPUT_STROBE			EXP, N06	STZ
-	Overwrite the addressed location with MONITOR_INT/REAL			BYTE	SOFORT
NBUP, NDLD					
-	-	0	0	2	0/0

11398	AXIS_VAR_SERVER_SENSITIVE			EXP	B3
-	Axis-Var server response			BYTE	POWER ON
-					
-	-	0	-	-	7/2

11400	TRACE_SELECT			EXP	-
-	Activation of internal trace functions			DWORD	POWER ON
-					
-	-	0	-	-	0/0

11405	TCI_TRACE_ACTIVE			EXP	-
-	Activation of internal task trace function			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	0/0

11410	SUPPRESS_ALARM_MASK			EXP, N06	D1
-	Mask for support of special alarm outputs			DWORD	POWER ON
-					
-	-	0x108000	-	-	7/2

11411	ENABLE_ALARM_MASK			EXP	-
-	Activation of warnings			DWORD	RESET
-					
-	-	0	-	-	7/2

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11412	ALARM_REACTION_CHAN_NOREADY			EXP, N01	D1
-	Alarm response CHAN_NOREADY permitted			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

11413	ALARM_PAR_DISPLAY_TEXT			EXP, N01	D1
-	Alarm parameter as text output			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	0/0

11414	ALARM_CLR_NCSTART_W_CANCEL			EXP, N01	D1
-	Clear NCSTART alarms with CANCEL			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

11415	SUPPRESS_ALARM_MASK_2			EXP, N06	-
-	Masking of alarm outputs			DWORD	POWER ON
-					
-	-	0x0	-	-	7/2

11420	LEN_PROTOCOL_FILE			N01	PGA
-	Size of protocol files (kB)			DWORD	POWER ON
-					
-	-	1	1	1000000	7/2

11450	SEARCH_RUN_MODE			EXP, N01	K1
-	Parameterization for search run			DWORD	POWER ON
-					
-	-	0	0	0x3F	7/2

11460	OSCILL_MODE_MASK			N09	P5
-	Mode mask for asynchronous oscillation			DWORD	POWER ON
-					
-	-	0x0	0	0xFFFF	7/2

11470	REPOS_MODE_MASK			EXP, N01	K1
-	Repositioning properties			DWORD	POWER ON
-					
-	-	0x8	0	0xFFFF	7/2

11480	PLC_OB1_TRACE_DEPTH			EXP, N03, N09	-
-	Buffer depth of PLC trace data at OB1			DWORD	POWER ON
-					
-	-	2	2	8	2/2

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11481	**PLC_OB35_TRACE_DEPTH**			EXP, N03, N09	-
-	Buffer depth of PLC trace data at OB35			DWORD	POWER ON
-					
-	-	2	2	8	2/2

11482	**PLC_OB40_TRACE_DEPTH**			EXP, N03, N09	-
-	Buffer depth of PLC trace data at OB40			DWORD	POWER ON
-					
-	-	2	2	8	2/2

11500	**PREVENT_SYNACT_LOCK**			N01, N09	S5,FBSY
-	Protected synchronized actions			DWORD	POWER ON
-					
-	2	0,0	0	255	7/2

11510	**IPO_MAX_LOAD**			N01, N05	-
%	Max. permitted IPO load			DOUBLE	POWER ON
-					
-	-	0.00	0.0	100.0	7/2

11550	**STOP_MODE_MASK**			N01	-
-	Defines the stop behavior.			DWORD	POWER ON
-					
-	-	0	0	0x1	7/2

11600	**BAG_MASK**			N01	K1
-	Defines the mode group behavior			DWORD	POWER ON
-					
-	-	0	0	0x3	7/2

11602	**ASUP_START_MASK**			N01, -	K1
-	Ignore stop conditions for ASUP			DWORD	POWER ON
-					
-	-	0	0	0xf	7/2

11604	**ASUP_START_PRIO_LEVEL**			N01, -	K1
-	Priorities from which 'ASUP_START_MASK' is effective			DWORD	POWER ON
-					
-	-	0	0	128	7/2

11610	**ASUP_EDITABLE**			N01	K1
-	Activation of a user-specific ASUP program			DWORD	POWER ON
-					
-	-	0	0	3	7/2

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11612	ASUP_EDIT_PROTECTION_LEVEL			N01	K1
-	Protection level of the user-specific ASUP program			DWORD	POWER ON
-					
-	-	2	0	7	7/2

11620	PROG_EVENT_NAME			EXP, N12	-
-	Program name for PROG_EVENT			STRING	POWER ON
-					
-	-		-	-	7/2

11640	ENABLE_CHAN_AX_GAP			N01, N11	K2
-	Allow channel axis gaps in AXCONF_MACHAX_USED			DWORD	POWER ON
-					
-	-	0x0	0	0x1	2/2

11660	NUM_EG			N09	M3
-	Number of possible 'electronic gear units'			BYTE	POWER ON
-					
-	-	0	-	-	1/1

11700	PERMISSIVE_FLASH_TAB			EXP, N01	IAD
-	Codes for NC card			DWORD	POWER ON
-					
-	6	0,0,0,0,0,0,0,0	-	-	1/1

11717	D_NO_FCT_CYCLE_NAME			EXP, N12, N07	-
-	Subroutine name for D function replacement			STRING	POWER ON
-					
-	-		-	-	7/2

11750	NCK_LEAD_FUNCTION_MASK			N09	-
-	Functions for master value coupling			DWORD	NEW CONF
-					
-	-	0x00	0	0x10	1/1

11752	NCK_TRAIL_FUNCTION_MASK			N09	-
-	Functions for coupled motion			DWORD	NEW CONF
-					
-	-	0x200	0	0x210	1/1

11754	COUPLE_CYCLE_MASK			EXP, N09	-
-	Replacement of coupling language commands by machining cycles			DWORD	POWER ON
-					
-	-	0x0	0	0x3F	1/1

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2.3.2 Override switch settings

12000	**OVR_AX_IS_GRAY_CODE**			EXP, N10	V1
-	Axis feedrate override switch Gray-coded			BOOLEAN	POWER ON
-					
-	-	TRUE	-	-	7/2

12010	**OVR_FACTOR_AX_SPEED**			EXP, N10	V1
-	Evaluation of axis feedrate override switch			DOUBLE	POWER ON
-					
-	31	0.00,0.01,0.02,0.04, 0.06,0.08,0.10...	0.00	2.00	7/2

12020	**OVR_FEED_IS_GRAY_CODE**			EXP, N10	V1
-	Path feedrate override switch Gray-coded			BOOLEAN	POWER ON
-					
-	-	TRUE	-	-	7/2

12030	**OVR_FACTOR_FEEDRATE**			EXP, N10	V1
-	Evaluation of path feedrate override switch			DOUBLE	POWER ON
-					
-	31	0.00,0.01,0.02,0.04, 0.06,0.08,0.10...	0.00	2.00	7/2

12040	**OVR_RAPID_IS_GRAY_CODE**			EXP, N10	V1
-	Rapid traverse override switch Gray-coded			BOOLEAN	POWER ON
-					
-	-	TRUE	-	-	7/2

12050	**OVR_FACTOR_RAPID_TRA**			EXP, N10	V1
-	Evaluation of rapid traverse override switch			DOUBLE	POWER ON
-					
-	31	0.00,0.01,0.02,0.04, 0.06,0.08,0.10...	0.00	1.00	7/2

12060	**OVR_SPIND_IS_GRAY_CODE**			EXP, N10	V1
-	Spindle override switch Gray-coded			BOOLEAN	POWER ON
-					
-	-	TRUE	-	-	7/2

12070	**OVR_FACTOR_SPIND_SPEED**			EXP, N10	V1
-	Evaluation of spindle override switch			DOUBLE	POWER ON
-					
-	31	0.5,0.55,0.60,0.65,0 .70,0.75,0.80...	0.00	2.00	7/2

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12080	**OVR_REFERENCE_IS_PROG_FEED**			N10, N09	V1
-	Override reference speed			BOOLEAN	POWER ON
-					
-	-	TRUE	-	-	7/2

12082	**OVR_REFERENCE_IS_MIN_FEED**			N10, N09	V1
-	Specification of the reference of the path override			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

12090	**OVR_FUNCTION_MASK**			N01, N10, N09	-
-	Selection of override specifications			DWORD	RESET
-					
-	-	0	0	0x01	7/2

12100	**OVR_FACTOR_LIMIT_BIN**			EXP, N10	V1
-	Limitation for binary-coded override switch			DOUBLE	POWER ON
-					
-	-	1.2	0.0	2.0	7/2

12200	**RUN_OVERRIDE_0**			N01, N09	FBMA,V1
-	Traversing response with override 0			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

12202	**PERMANENT_FEED**			N01, N09	FBMA,V1
mm/min	Fixed feedrates for linear axes			DOUBLE	RESET
-					
-	4	0.,0.,0.,0.	-	-	7/2

12204	**PERMANENT_ROT_AX_FEED**			N01, N09	FBMA
rev/min	Fixed feedrates for rotary axes			DOUBLE	RESET
-					
-	4	0.,0.,0.,0.	-	-	7/2

12205	**PERMANENT_SPINDLE_FEED**			N01, N09	FBMA
rev/min	Fixed feedrates for spindles			DOUBLE	RESET
-					
-	4	0.,0.,0.,0.	-	-	7/2

12300	**CENTRAL_LUBRICATION**			N01, N09	-
-	Central lubrication active			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

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12510	NCU_LINKNO			N01	B3
-	NCU number in an NCU cluster			DWORD	POWER ON
-					
-	-	1	1	16	7/2

12520	LINK_TERMINATION			N01	B3
-	NCU numbers for which bus termination resistances are activated			BYTE	POWER ON
LINK					
-	2	0,1	0	15	3/2

12540	LINK_BAUDRATE_SWITCH			N01	B3
-	Link bus baud rate			DWORD	POWER ON
LINK					
-	-	9	0	9	3/2

12550	LINK_RETRY_CTR			N01	B3
-	maximum number of message frame transmission retries			DWORD	POWER ON
LINK					
-	-	4	1	15	3/2

12701	AXCT_AXCONF_ASSIGN_TAB1			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12702	AXCT_AXCONF_ASSIGN_TAB2			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12703	AXCT_AXCONF_ASSIGN_TAB3			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12704	AXCT_AXCONF_ASSIGN_TAB4			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12705	AXCT_AXCONF_ASSIGN_TAB5			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

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12706	AXCT_AXCONF_ASSIGN_TAB6			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12707	AXCT_AXCONF_ASSIGN_TAB7			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12708	AXCT_AXCONF_ASSIGN_TAB8			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12709	AXCT_AXCONF_ASSIGN_TAB9			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12710	AXCT_AXCONF_ASSIGN_TAB10			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12711	AXCT_AXCONF_ASSIGN_TAB11			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12712	AXCT_AXCONF_ASSIGN_TAB12			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12713	AXCT_AXCONF_ASSIGN_TAB13			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12714	AXCT_AXCONF_ASSIGN_TAB14			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

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12715	AXCT_AXCONF_ASSIGN_TAB15			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12716	AXCT_AXCONF_ASSIGN_TAB16			N01	B3
-	Assignment of an axis container location			STRING	POWER ON
CTDE					
-	32		-	-	3/2

12750	AXCT_NAME_TAB			N01	B3
-	Axis container identifier			STRING	POWER ON
CTDE					
-	16	"CT1","CT2","CT3","CT4","CT5","CT6"...	-	-	1/1

12970	PLC_DIG_IN_LOGIC_ADDRESS			N10	-
-	Logical start address of the digital PLC input address			DWORD	POWER ON
-					
-	-	0	0	1023	0/0

12971	PLC_DIG_IN_NUM			N10	-
-	Number of digital input addresses			DWORD	POWER ON
-					
-	-	64	1	1023	0/0

12974	PLC_DIG_OUT_LOGIC_ADDRESS			N10	-
-	Logical start address of the digital PLC output addresses			DWORD	POWER ON
-					
-	-	0	0	1023	0/0

12975	PLC_DIG_OUT_NUM			N10	-
-	Number of digital output addresses			DWORD	POWER ON
-					
-	-	48	1	1023	0/0

12978	PLC_ANA_IN_LOGIC_ADDRESS			N10	-
-	Logical start address of the analog PLC input addresses			DWORD	POWER ON
-					
-	-	0	0	1023	0/0

12979	PLC_ANA_IN_NUM			N10	-
-	Number of analog input addresses			DWORD	POWER ON
-					
-	-	0	0	1023	0/0

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12982	PLC_ANA_OUT_LOGIC_ADDRESS			N10	-
-	Logical start address of the analog PLC output addresses			DWORD	POWER ON
-					
-	-	0	0	1023	0/0

12983	PLC_ANA_OUT_NUM			N10	-
-	Number of analog output addresses			DWORD	POWER ON
-					
-	-	0	0	1023	0/0

2.3.3 Central drive data

13000	DRIVE_IS_ACTIVE			EXP	G2
-	Drive activation (611D)			BOOLEAN	POWER ON
-					
-	31	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

13010	DRIVE_LOGIC_NR			EXP	G2
-	Logical drive number			BYTE	POWER ON
-					
-	31	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0...	0	31	7/2

13020	DRIVE_INVERTER_CODE			EXP	G2
-	Power section code of drive module			DWORD	POWER ON
-					
-	31	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0...	-	-	7/2

13030	DRIVE_MODULE_TYPE			EXP	G2
-	Module ID			BYTE	POWER ON
-					
-	31	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1...	0	10	7/2

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13040	DRIVE_TYPE			EXP	G2,FBHY
-	ID for drive type (1: FDD, 2: MSD, 3: LIN)			BYTE	POWER ON
-					
-	31	1,1,1,

13111	PROFIBUS_TRACE_TYPE			EXP	-
-	PROFIBUS trace settings			DWORD	NEW CONF
-					
-	-	0	0	2	2/2
840d-2a2c	-	-	-	0	-/-
840d-4a1cg	-	-	-	0	-/-
840d-6a2c	-	-	-	0	-/-
840d-12a2c	-	-	-	0	-/-
840d-31a10c	-	-	-	0	-/-

13112	PROFIBUS_TRACE_FILE_SIZE			EXP	-
-	Maximum trace file size in kbytes			DWORD	NEW CONF
-					
-	-	40	-	-	2/2

13113	PROFIBUS_TRACE_START			EXP	-
-	Activation of PROFIBUS trace			DWORD	SOFORT
-					
-	-	0	0	1	2/2

13114	PROFIBUS_TRACE_START_EVENT			EXP	-
-	Trigger conditions for PROFIBUS trace			DWORD	NEW CONF
-					
-	14	0,0,0,0,0,0,0,0,0,0 ,0,0,0	0x00000000	0x111fffff	2/2

13120	CONTROL_UNIT_LOGIC_ADDRESS			N04, N10	-
-	Logical address of SINAMICS CU			DWORD	POWER ON
-					
-	7	0,0,0,0,0,0,0	0	8191	7/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

13150	SINAMICS_ALARM_MASK			N04, N05	-
-	Activate fault and warning buffer output for Sinamics			DWORD	SOFORT
-					
-	-	0x0	-	-	7/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

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13200	MEAS_PROBE_LOW_ACTIVE			N10, N09	M5
-	Polarity reversal of sensor			BOOLEAN	POWER ON
-					
-	2	FALSE,FALSE	-	-	7/2

13210	MEAS_TYPE			N10, N09	M5
-	Meas. type with decentralized drives			BYTE	POWER ON
-					
-	-	1	0	1	7/2
840d-2a2c	-	0	-	-	-/-
840d-4a1cg	-	0	-	-	-/-
840d-6a2c	-	0	-	-	-/-
840d-12a2c	-	0	-	-	-/-
840d-31a10c	-	0	-	-	-/-

13211	MEAS_CENTRAL_SOURCE			N10, N09	-
-	Data source for central measurement with Profibus drives			BYTE	POWER ON
-					
-	-	3	1	3	0/0

13220	MEAS_PROBE_DELAY_TIME			N10, N09	FBA/IAD
s	Delay time between probe deflection and recognition			DOUBLE	POWER ON
-					
-	2	0.0,0.0	0	0.1	7/2

13300	PROFISAFE_IN_FILTER			N01, N06, -	-
-	Useful F data filter IN			DWORD	POWER ON
-					
-	16	0xFFFFFFFF,0xFFFFFFFF,0xFFFFFFFF...	-	-	7/2

13301	PROFISAFE_OUT_FILTER			N01, N06, -	-
-	Useful F data filter OUT			DWORD	POWER ON
-					
-	16	0xFFFFFFFF,0xFFFFFFFF,0xFFFFFFFF...	-	-	7/2

13310	SAFE_SPL_START_TIMEOUT			N01, N05, -	FBSI
-	Delay in display of alarm 27097			DOUBLE	POWER ON
-					
-	-	20.	1.	60.	7/2

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14504	MAXNUM_USER_DATA_INT			N03	P3
-	Number of user data (INT)			DWORD	POWER ON
-					
-	-	0	0	256	7/2

14506	MAXNUM_USER_DATA_HEX			N03	A2,P3
-	Number of user data (HEX)			DWORD	POWER ON
-					
-	-	0	0	256	7/2

14508	MAXNUM_USER_DATA_FLOAT			N03	A2,P3
-	Number of user data (FLOAT)			DWORD	POWER ON
-					
-	-	0	0	32	7/2

14510	USER_DATA_INT			N03	A2,P3
-	User data (INT)			DWORD	POWER ON
-					
-	256	0,0,0,

15702	LANG_SUB_PATH			N01	-
-	Call path for substitution subroutine			BYTE	POWER ON
-					
-	-	0	0	2	7/2

17200	GMMC_INFO_NO_UNIT			EXP	K1
-	Global HMI information (without physical unit)			DOUBLE	POWER ON
-					
-	16	3.,4.,3.,1.,0.,0.,0.,0., 0.,0.,0.,0.,0....	-	-	0/7

17201	GMMC_INFO_NO_UNIT_STATUS			EXP	K1
-	Global HMI status info (without physical unit)			BYTE	POWER ON
-					
-	16	1,1,1,1,0,0,0,0,0,0,0 ,0,0,0,0,0	-	-	0/7

17400	OEM_GLOBAL_INFO			A01, A11	-
-	OEM version information			STRING	POWER ON
-					
-	5		-	-	7/2

17500	MAXNUM_REPLACEMENT_TOOLS			N09	FBW
-	Maximal number of replacement tools.			DWORD	POWER ON
-					
-	-	0	0	32	7/2

17510	TOOL_UNLOAD_MASK			N09	FBW
-	Behavior of tool data when unloading			DWORD	POWER ON
-					
-	-	0	0	0xF	7/2

17515	TOOL_RESETMON_MASK			N09	-
-	Tool data behavior with RESETMON			DWORD	POWER ON
-					
-	-	0x14	0	0x49F	7/2

17520	TOOL_DEFAULT_DATA_MASK			N09	FBW
-	Create new tool: default settings			DWORD	POWER ON
-					
-	-	0	0	0x1F	7/2

17530	TOOL_DATA_CHANGE_COUNTER			EXP, N01	FBW
-	Mark tool data change for HMI			DWORD	POWER ON
-					
-	-	0	0	0xF	7/2

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17540	TOOLTYPES_ALLOWED			N09	-
-	Permitted tool types			DWORD	POWER ON
-					
-	-	0x3FF	0	0x3FF	7/2
840d-4a1cg	-	0x10	-	-	-1/-

17600	DEPTH_OF_LOGFILE_OPT			EXP, N01	-
-	Depth of log memory optimization in REORG			DWORD	RESET
-					
-	-	5	0	300	3/3

17610	DEPTH_OF_LOGFILE_OPT_PF			EXP, N01	-
-	Depth of the PowerFail log memory optimization			DWORD	RESET
-					
-	3	10,0,4	0	300	0/0

17900	VDI_FUNCTION_MASK			EXP, N09	-
-	Setting to VDI signals			DWORD	POWER ON
-					
-	-	0x0	0	0x1	7/2

2.3.4 System specific memory settings

18000	VDI_UPDATE_IN_ONE_IPO_CYCLE			EXP, N01	P3
-	PLC interface update			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	0/0

18030	HW_SERIAL_NUMBER			N05	-
-	Hardware series number			STRING	POWER ON
READ					
-	1		-	-	7/2

18040	VERSION_INFO			N05	IAD
-	Version and possibly data of the PCMCIA card, not FM-NC			STRING	POWER ON
READ					

18050	INFO_FREE_MEM_DYNAMIC			N01, N02, N05	S7
-	Display data of free dynamic memory			DWORD	POWER ON
READ					
-	-	430080	-	-	7/2

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18060	**INFO_FREE_MEM_STATIC**			N01, N02, N05	S7
-	Display data of free static memory			DWORD	POWER ON
READ					
-	-	1048576	-	-	7/2
840d-2a2c	-	3145728	-	-	-/-
840d-4a1cg	-	3145728	-	-	-/-
840d-6a2c	-	3145728	-	-	-/-
840d-12a2c	-	3145728	-	-	-/-
840d-31a10c	-	3145728	-	-	-/-

18070	**INFO_FREE_MEM_DPR**			EXP, N01, N02, N05	S7
-	Display data of free memory in DUAL PORT RAM			DWORD	POWER ON
READ					
-	-	0	-	-	7/2

18072	**INFO_FREE_MEM_CC_MD**			EXP, N01, N05	-
-	Display of free memory in CC-MD memory			DWORD	POWER ON
READ					
-	-	0	-	-	0/0

18074	**MM_TOOL_MANAGEMENT_TRACE_SZ**			N02, N09	/FBW/, "Description of Functions, Tool Management"
-	Max. size of the tool management diagnostic ring buffers			DWORD	POWER ON
-					
-	2	25,25	4	500	7/2

18075	**MM_NUM_TOOLHOLDERS**			N02, N09	/FBW/, "Description of Functions, Tool Management"
-	Max. number of tool holders per TOA			DWORD	POWER ON
-					
-	-	32	1	SLMDMAXMAGLOCATIONSWITHDISTANCE	7/2
840d-2a2c	-	2	-	2	-/-
840d-4a1cg	-	4	-	4	-/-

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18076	**MM_NUM_LOCS_WITH_DISTANCE**			N02, N09	/FBW/, "Description of Functions, Tool Management"
-	Max. number of magazine locations per TOA with remote connection			DWORD	POWER ON
-					
-	-	32	1	SLMDMAXMAGLOCATIONSWITHDISTANCE	7/2

18077	**MM_NUM_DIST_REL_PER_MAGLOC**			N02, N09	/FBW/, "Description of Functions, Tool Management"
-	Max. no. of magazines in the distance table of a magazine loc.			DWORD	POWER ON
-					
-	-	SLMDMAXLINKEDMAGAZINES	0	SLMDMAXLINKEDMAGAZINES	7/2

18078	**MM_MAX_NUM_OF_HIERARCHIES**			N02, N09	/FBW/, "Description of Functions, Tool Management"
-	The maximum number of hierarchies for magazine location types			DWORD	POWER ON
-					
-	-	8	0	32	7/2

18079	**MM_MAX_HIERARCHY_ENTRIES**			N02, N09	/FBW/, "Description of Functions, Tool Management"
-	The max. number of entries in a mag. location type hierarchy.			DWORD	POWER ON
-					
-	-	8	1	32	7/2

18080	**MM_TOOL_MANAGEMENT_MASK**			N02, N09	FBW
-	Step-by-step memory reservation for tool management (SRAM)			DWORD	POWER ON
-					
-	-	0x0	0	0xFFFF	7/1

18082	**MM_NUM_TOOL**			N02, N09	FBW,S7
-	Number of tools the NCK can manage (SRAM)			DWORD	POWER ON
-					
-	-	30	0	600	7/2

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18084	MM_NUM_MAGAZINE			N02, N09	FBW
-	Number of magazines the NCK can manage (SRAM)			DWORD	POWER ON
-					
-	-	3	0	32	7/2

18086	MM_NUM_MAGAZINE_LOCATION			N02, N09	FBW
-	Number of magazine locations the NCK can manage (SRAM)			DWORD	POWER ON
-					
-	-	30	0	600	7/2

18088	MM_NUM_TOOL_CARRIER			N02, N09	W1
-	Maximum number of definable tool holders			DWORD	POWER ON
-					
-	-	0	0	MD_SLMAXNOOFTOOLCARRIERS	7/2

18090	MM_NUM_CC_MAGAZINE_PARAM			N02, N09	FBW
-	Number of magazine data generated and evaluated by the CC (SRAM)			DWORD	POWER ON
-					
-	-	0	0	10	2/2

18091	MM_TYPE_CC_MAGAZINE_PARAM			N02, N09	-
-	Type of OEM magazine data (SRAM)			DWORD	POWER ON
-					
-	10	3,3,3,3,3,3,3,3,3,3	1	6	2/2

18092	MM_NUM_CC_MAGLOC_PARAM			N02, N09	FBW
-	Number of OEM magazine location data (SRAM)			DWORD	POWER ON
-					
-	-	0	0	10	2/2

18093	MM_TYPE_CC_MAGLOC_PARAM			N02, N09	-
-	Type of OEM magazine location data (SRAM)			DWORD	POWER ON
-					
-	10	3,3,3,3,3,3,3,3,3,3	1	6	2/2

18094	MM_NUM_CC_TDA_PARAM			N02, N09	FBW
-	Number of OEM tool data (SRAM)			DWORD	POWER ON
-					
-	-	0	0	10	2/2

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18095	MM_TYPE_CC_TDA_PARAM			N02, N09	-
-	Type of OEM tool data (SRAM)			DWORD	POWER ON
-					
-	10	4,4,4,4,4,4,4,4,4,4	1	6	2/2

18096	MM_NUM_CC_TOA_PARAM			N02, N09	FBW
-	Number of data per tool edge for compile cycles (SRAM)			DWORD	POWER ON
-					
-	-	0	0	10	2/2

18097	MM_TYPE_CC_TOA_PARAM			N02, N09	-
-	Type of OEM data per cutting edge (SRAM)			DWORD	POWER ON
-					
-	10	4,4,4,4,4,4,4,4,4,4	1	6	2/2

18098	MM_NUM_CC_MON_PARAM			N02, N09	FBW
-	Number of monitoring data per tool for compile cycles			DWORD	POWER ON
-					
-	-	0	0	10	2/2

18099	MM_TYPE_CC_MON_PARAM			N02, N09	FBW
-	Type of OEM monitor data (SRAM)			DWORD	POWER ON
-					
-	10	3,3,3,3,3,3,3,3,3,3	1	6	2/2

18100	MM_NUM_CUTTING_EDGES_IN_TOA			N02, N09	S7
-	Tool offsets in the TO range (SRAM)			DWORD	POWER ON
-					
-	-	30	0	1500	7/2

18102	MM_TYPE_OF_CUTTING_EDGE			N02, N09	W1
-	Type of D No. programming (SRAM)			DWORD	POWER ON
-					
-	-	0	0	1	7/2

18104	MM_NUM_TOOL_ADAPTER			N02, N09	FBW
-	Tool adapters in TO area (SRAM)			DWORD	POWER ON
-					
-	-	-1	-1	600	7/2

18105	MM_MAX_CUTTING_EDGE_NO			N02, N09	W1
-	maximum value of D number (DRAM)			DWORD	POWER ON
-					
-	-	9	1	32000	7/2

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18106	MM_MAX_CUTTING_EDGE_PERTOOL			N02, N09	W1
-	maximum number of D numbers per tool (DRAM)			DWORD	POWER ON
-					
-	-	9	1	12	7/2

18108	MM_NUM_SUMCORR			N02, N09	W1
-	Resulting offsets in TO area (SRAM)			DWORD	POWER ON
-					
-	-	-1	-1	9000	7/2

18110	MM_MAX_SUMCORR_PER_CUTTEDGE			N02, N09	S7
-	Max. number of additive offsets per edge			DWORD	POWER ON
-					
-	-	1	1	6	7/2

18112	MM_KIND_OF_SUMCORR			N02, N09	W1
-	Properties of resulting offsets in TO area (SRAM)			DWORD	POWER ON
-					
-	-	0	0	0x1F	7/2

18114	MM_ENABLE_TOOL_ORIENT			N02, N09	W1
-	Assign tool cutting edge orientation			DWORD	POWER ON
-					
-	-	0	0	3	7/2

18116	MM_NUM_TOOL_ENV			N02, N09	S7
-	Number of tool environments in the TO area (SRAM)			DWORD	POWER ON
-					
-	-	0	0	MD_MAXNUM_ TOOLENVS	7/2

18118	MM_NUM_GUD_MODULES			N02	S7
-	Number of GUD files in active file system (SRAM)			DWORD	POWER ON
-					
-	-	7	1	9	7/2

18120	MM_NUM_GUD_NAMES_NCK			N02	S7
-	Number of global user variable names (SRAM)			DWORD	POWER ON
-					
-	-	50	0	32000	7/2
840d-2a2c	-	10	-	-	-/-
840d-4a1cg	-	10	-	-	-/-
840d-6a2c	-	10	-	-	-/-
840d-12a2c	-	10	-	-	-/-
840d-31a10c	-	10	-	-	-/-

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18130	MM_NUM_GUD_NAMES_CHAN			N02	S7
-	Number of channel-specific user variable names (SRAM)			DWORD	POWER ON
-					
-	-	150	0	32000	7/2

18150	MM_GUD_VALUES_MEM			N02	S7
-	Memory location for global user variable values (SRAM)			DWORD	POWER ON
-					
-	-	32	0	32000	7/2
840d-2a2c	-	16	-	-	-/-
840d-4a1cg	-	16	-	-	-/-
840d-6a2c	-	16	-	-	-/-
840d-12a2c	-	16	-	-	-/-
840d-31a10c	-	16	-	-	-/-

18160	MM_NUM_USER_MACROS			N02	S7
-	Number of macros (DRAM)			DWORD	POWER ON
-					
-	-	50	0	32000	7/2
840d-2a2c	-	10	-	-	-/-
840d-4a1cg	-	10	-	-	-/-
840d-6a2c	-	10	-	-	-/-
840d-12a2c	-	10	-	-	-/-
840d-31a10c	-	10	-	-	-/-

18170	MM_NUM_MAX_FUNC_NAMES			N02	S7
-	Number of miscellaneous functions (cycles, DRAM)			DWORD	POWER ON
-					
-	-	100	0	32000	7/2
840d-2a2c	-	40	-	-	-/-
840d-4a1cg	-	40	-	-	-/-
840d-6a2c	-	40	-	-	-/-
840d-12a2c	-	40	-	-	-/-
840d-31a10c	-	40	-	-	-/-

18180	MM_NUM_MAX_FUNC_PARAM			N02	S7
-	Number of additional parameters for cycles according to MD 18170			DWORD	POWER ON
-					
-	-	1000	0	32000	7/2

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18190	MM_NUM_PROTECT_AREA_NCK			N12, N02, N06, N09	S7
-	Number of files for machine-related protection zones (SRAM)			DWORD	POWER ON
-					
-	-	0	0	10	7/2

18200	MM_NUM_CCS_MAGAZINE_PARAM			N02, N09	FBW
-	Number of Siemens OEM magazine data (SRAM)			DWORD	POWER ON
-					
-	-	0	0	10	2/2

18201	MM_TYPE_CCS_MAGAZINE_PARAM			N02, N09	FBW
-	Type of Siemens OEM magazine data (SRAM)			DWORD	POWER ON
-					
-	10	3,3,3,3,3,3,3,3,3,3	1	6	2/2

18202	MM_NUM_CCS_MAGLOC_PARAM			N02, N09	FBW
-	No. of Siemens OEM magazine location data (SRAM)			DWORD	POWER ON
-					
-	-	0	0	10	2/2

18203	MM_TYPE_CCS_MAGLOC_PARAM			N02, N09	FBW
-	Type of Siemens OEM magazine location data (SRAM)			DWORD	POWER ON
-					
-	10	3,3,3,3,3,3,3,3,3,3	1	6	2/2

18204	MM_NUM_CCS_TDA_PARAM			N02, N09	FBW
-	Number of Siemens OEM tool data (SRAM)			DWORD	POWER ON
-					
-	-	0	0	10	2/2

18205	MM_TYPE_CCS_TDA_PARAM			N02, N09	FBW
-	Type of Siemens OEM tool data (SRAM)			DWORD	POWER ON
-					
-	10	4,4,4,4,4,4,4,4,4,4	1	6	2/2

18206	MM_NUM_CCS_TOA_PARAM			N02, N09	FBW
-	No. of Siemens OEM data per cutting edge (SRAM)			DWORD	POWER ON
-					
-	-	0	0	10	2/2

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18207	MM_TYPE_CCS_TOA_PARAM			N02, N09	FBW
-	Type of Siemens OEM data per cutting edge (SRAM)			DWORD	POWER ON
-					
-	10	4,4,4,4,4,4,4,4,4,4	1	6	2/2

18208	MM_NUM_CCS_MON_PARAM			N02, N09	FBW
-	No. of Siemens OEM monitor data (SRAM)			DWORD	POWER ON
-					
-	-	0	0	10	2/2

18209	MM_TYPE_CCS_MON_PARAM			N02, N09	FBW
-	Type of Siemens OEM monitor data (SRAM)			DWORD	POWER ON
-					
-	10	3,3,3,3,3,3,3,3,3,3	1	6	2/2

18210	MM_USER_MEM_DYNAMIC			EXP, N02	S7
-	User memory in DRAM [KB]			DWORD	POWER ON
-					
-	-	3000	0	4000000	7/2

18220	MM_USER_MEM_DPR			EXP, N02	-
-	User memory in DUAL PORT RAM (DPR)			DWORD	POWER ON
-					
-	-	0	-	-	0/0

18230	MM_USER_MEM_BUFFERED			N02	S7
-	User memory in SRAM			DWORD	POWER ON
-					
-	-	0	0	4000000	7/1

18231	MM_USER_MEM_BUFFERED_TYPEOF			N02	-
-	Technology for data buffering			DWORD	POWER ON
-					
-	3	0,0,0	0	1	0/0

18232	MM_ACTFILESYS_LOG_FILE_MEM			N02	-
-	System: logfile size in SRAM [KB]			DWORD	POWER ON
-					
-	3	0,0,0	0	32000	0/0

18233	IS_CONTINOUS_DATA_SAVE_ON			EXP, N02	-
-	System: Automatic saving of persistent data			BOOLEAN	POWER ON
-					
-	3	FALSE,FALSE,FALSE	-	-	7/2

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18237	MM_CYC_DATA_MEM_SIZE			EXP, N02	-
-	Cycle/display setting data in SRAM [kB]			DWORD	POWER ON
READ					
-	-	0	0	32000	7/2

18238	MM_CC_MD_MEM_SIZE			N02	-
-	Compile cycle machine data in SRAM [kB]			DWORD	POWER ON
-					
-	-	1	1	32000	7/1

18240	MM_LUD_HASH_TABLE_SIZE			EXP, N02	S7
-	Hash table size for LUD (DRAM)			DWORD	POWER ON
-					
-	-	37	11	107	0/0
840d-2a2c	-	11	-	-	-/-
840d-4a1cg	-	11	-	-	-/-
840d-6a2c	-	11	-	-	-/-
840d-12a2c	-	11	-	-	-/-
840d-31a10c	-	11	-	-	-/-

18242	MM_MAX_SIZE_OF_LUD_VALUE			N02	S7
-	Maximum memory block size for LUD/GUD values			DWORD	POWER ON
-					
-	-	920	920	SLMAXVARBYTES	0/0

18250	MM_CHAN_HASH_TABLE_SIZE			EXP, N02	S7
-	Hash table size for channel-specific data (DRAM)			DWORD	POWER ON
-					
-	-	23	3	193	0/0

18260	MM_NCK_HASH_TABLE_SIZE			EXP, N02	S7
-	Hash table size for global data (DRAM)			DWORD	POWER ON
-					
-	-	4001	537	4327	0/0

18270	MM_NUM_SUBDIR_PER_DIR			N02	S7
-	Number of subdirectories (DRAM)			DWORD	POWER ON
-					
-	-	30	24	250	7/1

18280	MM_NUM_FILES_PER_DIR			N02	S7
-	Number of files per directory (DRAM)			DWORD	POWER ON
-					
-	-	100	64	512	7/1

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18290	MM_FILE_HASH_TABLE_SIZE			EXP, N02	S7
-	Hash table size for files of a directory (SRAM)			DWORD	POWER ON
-					
-	-	47	3	299	0/0

18300	MM_DIR_HASH_TABLE_SIZE			EXP, N02	S7
-	Hash table size for subdirectories (SRAM)			DWORD	POWER ON
-					
-	-	11	3	349	0/0

18310	MM_NUM_DIR_IN_FILESYSTEM			N02	S7
-	Number of directories in passive file system (SRAM)			DWORD	POWER ON
-					
-	-	30	30	256	7/2

18320	MM_NUM_FILES_IN_FILESYSTEM			N02	S7
-	Number of files in passive file system (SRAM)			DWORD	POWER ON
-					
-	-	150	64	512	7/2

18331	MM_FLASHFILESYS_MEM			N01, N02	-
-	Reserved for FFS (DRAM)			BYTE	POWER ON
-					
-	8	0,0,0,0,0,0,0,0	-	-	0/0

18332	MM_FLASH_FILE_SYSTEM_SIZE			N01, N02	IAD
-	Size of FFS			DWORD	POWER ON
-					
-	-	0	0	4096	7/1

18342	MM_CEC_MAX_POINTS			N01, N02	K3
-	max. number of interpolation points on sag compensation (SRAM)			DWORD	POWER ON
-					
-	62	0,0,0,0,0,0,0,

18352	MM_U_FILE_MEM_SIZE			EXP, N02	-
-	End user memory for part programs/cycles/files			DWORD	POWER ON
-					
-	3	0,0,0	0	0	2/2

18353	MM_M_FILE_MEM_SIZE			EXP, N02	-
-	Memory capacity for machine manufacturer's cycles/files			DWORD	POWER ON
-					
-	3	0,0,0	0	0	1/1

18354	MM_S_FILE_MEM_SIZE			EXP, N02	-
-	Memory capacity for NC manufacturer's cycles/files			DWORD	POWER ON
-					
-	3	0,0,0	0	0	0/0

18355	MM_T_FILE_MEM_SIZE			EXP, N02	-
-	Memory size for temporary files			DWORD	POWER ON
-					
-	-	1000	-	-	7/2

18356	MM_E_FILE_MEM_SIZE			EXP, N02	-
-	Memory size for the clipboard of external files			DWORD	POWER ON
-					
-	3	0,0,0	0	15360	0/0

18360	MM_EXT_PROG_BUFFER_SIZE			N01	A2
-	FIFO buffer size for processing from external source (DRAM)			DWORD	POWER ON
-					
-	-	50	30	1000000	7/2
840d-2a2c	-	30	-	-	-/-
840d-4a1cg	-	30	-	-	-/-
840d-6a2c	-	30	-	-	-/-
840d-12a2c	-	30	-	-	-/-
840d-31a10c	-	30	-	-	-/-

18362	MM_EXT_PROG_NUM			N01	A2
-	Number of program levels which can be simultaneously processed			BYTE	POWER ON
-					
-	-	1	0	13	7/2

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18370	MM_PROTOC_NUM_FILES			N02	D1,OEM
-	Max.no. of log files in passive file system			DWORD	POWER ON
-					
-	10	2,0,0,0,0,2,2,0,0,3	0	10	1/1

18371	MM_PROTOC_NUM_ETPD_STD_LIST			N02	D1,OEM
-	Number of standard data lists ETPD.			DWORD	POWER ON
-					
-	10	25,0,0,0,0,25,25,0,0,3	0	25	1/1

18372	MM_PROTOC_NUM_ETPD_OEM_LIST			N02	D1,OEM
-	Number of OEM data lists ETPD.			DWORD	POWER ON
-					
-	10	0,0,0,0,0,0,0,0,0,0	0	20	1/1

18373	MM_PROTOC_NUM_SERVO_DATA			N02	D1
-	Number of servo data for log			DWORD	POWER ON
-					
-	10	0,0,0,0,0,10,10,0,0,0	0	20	1/1

18374	MM_PROTOC_FILE_BUFFER_SIZE			N02	-
-	Size of log file buffer			DWORD	POWER ON
-					
-	10	8000,8000,8000,8000,8000,8000,8000...	5000	-	1/1

18375	MM_PROTOC_SESS_ENAB_USER			N02	-
-	Users enabled for sessions			BYTE	POWER ON
-					
-	10	0,0,0,0,0,1,1,0,0,0	0	1	1/1

18390	MM_COM_COMPRESS_METHOD			EXP, N01, N02	-
-	Supported compression methods.			DWORD	POWER ON
-					
-	-	0x01	-	-	2/2

18400	MM_NUM_CURVE_TABS			N02, N09	M3
-	Number of curve tables (SRAM)			DWORD	POWER ON
-					
-	-	0	-	-	1/1

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18402	MM_NUM_CURVE_SEGMENTS			N02, N09	M3
-	Number of curve segments (SRAM)			DWORD	POWER ON
-					
-	-	0	-	-	1/1

18403	MM_NUM_CURVE_SEG_LIN			N02, N09	-
-	Number of linear curve segments (SRAM)			DWORD	POWER ON
-					
-	-	0	-	-	1/1

18404	MM_NUM_CURVE_POLYNOMS			N02, N09	M3
-	Number of curve table polynomials (SRAM)			DWORD	POWER ON
-					
-	-	0	-	-	1/1

18406	MM_NUM_CURVE_TABS_DRAM			N02, N09	M3
-	Number of curve tables (DRAM)			DWORD	POWER ON
-					
-	-	0	-	-	1/1

18408	MM_NUM_CURVE_SEGMENTS_DRAM			N02, N09	M3
-	Number of curve segments (DRAM)			DWORD	POWER ON
-					
-	-	0	-	-	1/1

18409	MM_NUM_CURVE_SEG_LIN_DRAM			N02, N09	-
-	Number of linear curve segments (DRAM)			DWORD	POWER ON
-					
-	-	0	-	-	1/1

18410	MM_NUM_CURVE_POLYNOMS_DRAM			N02, N09	M3
-	Number of curve table polynomials (DRAM)			DWORD	POWER ON
-					
-	-	0	-	-	1/1

18450	MM_NUM_CP_MODULES			N02, N09	-
-	Max. number of CP modules			DWORD	POWER ON
-					
-	-	4	0	48	1/1

18452	MM_NUM_CP_MODUL_LEAD			N02, N09	-
-	Maximum number of CP master values			DWORD	POWER ON
-					
-	-	4	0	99	1/1

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18500	MM_EXTCOM_TASK_STACK_SIZE			EXP, N02	S7
-	Stack size for external communications task (DRAM)			DWORD	POWER ON
-					
-	-	19	10	60	0/0

18502	MM_COM_TASK_STACK_SIZE			EXP, N02	-
-	Stack size in KB for communication task (DRAM)			DWORD	POWER ON
-					
-	-	20	4	40	0/0

18510	MM_SERVO_TASK_STACK_SIZE			EXP, N02	S7
-	Stack size of servo task (DRAM)			DWORD	POWER ON
-					
-	-	20	4	40	0/0

18512	MM_IPO_TASK_STACK_SIZE			EXP, C02	-
-	Stack size of IPO task (DRAM)			DWORD	POWER ON
-					
-	-	30	12	40	0/0

18520	MM_DRIVE_TASK_STACK_SIZE			EXP, N02	S7,ECO
-	Stack size of drive task (DRAM)			DWORD	POWER ON
-					
-	-	20	6	40	0/0

18540	MM_PLC_TASK_STACK_SIZE			EXP, N02	-
-	Stack size of the PLC task (DRAM)			DWORD	POWER ON
-					
-	-	30	20	40	0/0

18600	MM_FRAME_FINE_TRANS			N02	K2
-	Fine offset with FRAME (SRAM)			DWORD	POWER ON
-					
-	-	1	0	1	7/2

18601	MM_NUM_GLOBAL_USER_FRAMES			N02	K2
-	Number of global predefined user frames (SRAM).			DWORD	POWER ON
-					
-	-	0	0	100	7/2

18602	MM_NUM_GLOBAL_BASE_FRAMES			N02	K2
-	Number of global base frames (SRAM).			DWORD	POWER ON
-					
-	-	0	0	16	7/2

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18660	**MM_NUM_SYNACT_GUD_REAL**			N02	-
-	Number of configurable GUD variables of type REAL			DWORD	POWER ON
-					
-	9	0,0,0,0,0,0,0,0,0,0	0	32767	7/2

18661	**MM_NUM_SYNACT_GUD_INT**			N02	-
-	Number of configurable GUD variables of type integer			DWORD	POWER ON
-					
-	9	0,0,0,0,0,0,0,0,0,0	0	32767	7/2

18662	**MM_NUM_SYNACT_GUD_BOOL**			N02	-
-	Number of configurable GUD variables of type Boolean			DWORD	POWER ON
-					
-	9	0,0,0,0,0,0,0,0,0,0	0	32767	7/2

18663	**MM_NUM_SYNACT_GUD_AXIS**			N02	-
-	Number of configurable GUD variables of type Axis			DWORD	POWER ON
-					
-	9	0,0,0,0,0,0,0,0,0,0	0	32767	7/2

18664	**MM_NUM_SYNACT_GUD_CHAR**			N02	-
-	Configurable GUD variable of type Char			DWORD	POWER ON
-					
-	9	0,0,0,0,0,0,0,0,0,0	0	32767	7/2

18665	**MM_NUM_SYNACT_GUD_STRING**			N02	-
-	Configurable GUD variable of type STRING			DWORD	POWER ON
-					
-	9	0,0,0,0,0,0,0,0,0,0	0	25	7/2

18700	**MM_SIZEOF_LINKVAR_DATA**			N02	B3
-	Size of NCU-link variable memory			DWORD	POWER ON
LINK					
-	-	0	-	-	7/2

18710	**MM_NUM_AN_TIMER**			N02	-
-	Number of global time variable for synchronized actions			DWORD	POWER ON
-					
-	-	0	0	10000	7/2

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18720	MM_SERVO_FIFO_SIZE			EXP, N01	-
-	Setpoint value for buffer size between IPO and position control			DWORD	POWER ON
-					
-	-	2	2	35	3/2

18780	MM_NCU_LINK_MASK			N01	B3
-	Activation of NCU-link communication			DWORD	POWER ON
-					
-	-	0	0	3	3/2

18781	NCU_LINK_CONNECTIONS			N01	B3
-	Number of internal link connections			DWORD	POWER ON
LINK					
-	-	0	0	32	3/1

18782	MM_LINK_NUM_OF_MODULES			N01, N02	B3
-	Number of NCU-link modules			DWORD	POWER ON
-					
-	-	2	2	16	3/2

18788	MM_CC_STATION_CHAN_MASK			N01	-
-	Channel bit mask for allocating CC stations			DWORD	POWER ON
-					
-	MD_MAXNUM_CC_STATIONS	1,0	-	-	1/1

18790	MM_MAX_TRACE_LINK_POINTS			EXP, N02, N06	B3
-	Trace data buffer size for NCU-Link			DWORD	POWER ON
NBUP					
-	-	8	0	20000	2/2

18792	MM_TRACE_LINK_DATA_FUNCTION			EXP, N02, N06	B3
-	Specifies the contents of the NCU-link files			DWORD	POWER ON
NBUP					
-	-	0	0	0x7FFFFFFF	2/2

18794	MM_TRACE_VDI_SIGNAL			EXP, N02, N06	-
-	Trace specification of VDI signals			DWORD	POWER ON
NBUP					
-	-	0	0	0x7FFFFFFF	2/2

18800	MM_EXTERN_LANGUAGE			N01, N12	FBFA
-	Activation of external NC languages			DWORD	POWER ON
-					
-	-	0x0000	0x0000	0x0001	7/2

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18860	MM_MAINTENANCE_MON			EXP, N01	-
-	Activation of maintenance data recording			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

18870	MM_MAXNUM_KIN_CHAINS			EXP, N01	-
-	Max. number of kinematic chains			DWORD	POWER ON
-					
-	-	0	-	200	7/2

18880	MM_MAXNUM_KIN_CHAIN_ELEM			EXP, N01	-
-	maximum number of elements in kinematic chains			DWORD	POWER ON
-					
-	-	0	-	1000	7/2

18890	MM_MAXNUM_3D_PROT_AREAS			EXP, N01	-
-	Maximum number of elements in 3D protection areas			DWORD	POWER ON
-					
-	-	0	-	200	7/2

18892	MM_MAXNUM_3D_PROT_AREA_ELEM			EXP, N01	-
-	Max. number of protection zone elements			DWORD	POWER ON
-					
-	-	0	0	1000	7/2

18894	MM_MAXNUM_3D_PROT_GROUPS			EXP, N01	-
-	Max. number of protection zone groups			DWORD	POWER ON
-					
-	-	0	0	100	7/2

18896	MM_MAXNUM_3D_COLLISION			EXP, N01	-
-	Max. number of temp. memories for collision check			DWORD	POWER ON
-					
-	-	0	0	MAX_SIZE_3D_S_MATRIX_MD	7/2

18897	MM_MAXNUM_3D_INTRERFACE_IN			EXP, N01	-
-	Max. no. of interf. bits for pre-activation of protection zones			DWORD	POWER ON
-					
-	-	16	0	MAXNUM_3D_INTERFACEBITS_IN_MD	7/1

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18898	**PROT_AREA_3D_TYPE_NAME_TAB**			EXP, N12, N07	-
-	Table of names for protection zone types			STRING	POWER ON
-					
-	10	"BOX","SPHERE","CYLINDER","CONE"...	-	-	7/2

18900	**FPU_ERROR_MODE**			EXP	-
-	System reaction to FPU calculation error			DWORD	POWER ON
NBUP, NDLD					
-	-	0x1	-	-	0/0

18910	**FPU_CTRLWORD_INIT**			EXP	-
-	Basic initialization of FPU control word			DWORD	POWER ON
NBUP, NDLD					
-	-	0x37F	-	-	0/0

18920	**FPU_EXEPTION_MASK**			EXP	-
-	Exception mask for FPU calculation errors			DWORD	POWER ON
NBUP, NDLD					
-	-	0xD	-	-	0/0

18930	**COREFILE_NAME**			EXP	-
-	Path for core file creation			STRING	POWER ON
-					
-	-		-	-	7/1

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2.4 Channel-specific machine data

Number	Identifier			Display filters	Reference
Unit	Name			Data type	Active
Attributes					
System	Dimension	Default value	Minimum value	Maximum value	Protection

2.4.1 Basic channel machine data

20000	CHAN_NAME			C01, C10	K1
-	Channel name			STRING	POWER ON
-					
-	-	"CHAN1","CHAN2", "CHAN3","CHAN4"...	-	-	7/2

20050	AXCONF_GEOAX_ASSIGN_TAB			C01, C10	K2
-	Assignment of geometry axis to channel axis			BYTE	POWER ON
-					
-	3	1, 2, 3,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/2
840d-2a2c	-	0, 0, 0	-	-	-/-

20060	AXCONF_GEOAX_NAME_TAB			C01, C11, C10	K2
-	Geometry axis name in channel			STRING	POWER ON
-					
-	3	"X", "Y", "Z","X", "Y", "Z"...	-	-	7/2

20070	AXCONF_MACHAX_USED			C01, C10	K2
-	Machine axis number valid in channel			BYTE	POWER ON
-					
-	20	1, 2, 3, 4, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	31	7/2
840d-2a2c	2	1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	-	-	-/-
840d-4a1cg	4	-	-	-	-/-

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20080	**AXCONF_CHANAX_NAME_TAB**			C01, C11, C10	K2
-	Channel axis name in channel			STRING	POWER ON
-					
-	20	"X", "Y", "Z", "A", "B", "C", "U", "V", "X11", "Y11"...	-	-	7/2
840d-2a2c	2	-	-	-	-/-
840d-4a1cg	4	-	-	-	-/-

20082	**AXCONF_CHANAX_DEFAULT_NAME**			C01, C11, C10	-
-	Default axis name for axis variables in the channel			STRING	POWER ON
-					
-	-		-	-	7/2

20090	**SPIND_DEF_MASTER_SPIND**			C01, C03	S1
-	Initial setting of master spindle in channel			BYTE	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	1	20	7/2

20092	**SPIND_ASSIGN_TAB_ENABLE**			C01, C03, C10	S1
-	Enable/disable the spindle converter.			BYTE	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/7

20094	**SPIND_RIGID_TAPPING_M_NR**			C01, C03, C10	FBFA
-	M function for switching into controlled axis mode			DWORD	POWER ON
-					
-	-	70,70,70,70,70,70,70,70,70,70,70,70,70,70,70,70...	-	-	7/2

20095	**EXTERN_RIGID_TAPPING_M_NR**			C01, C11, C03, C10	FBFA
-	M function for switching to controlled axis mode(external mode)			DWORD	POWER ON
-					
-	-	29,29,29,29,29,29,29,29,29,29,29,29,29,29,29,29...	-	-	7/2

20096	**T_M_ADDRESS_EXT_IS_SPINO**			C01, C04, C09	W1,FBW
-	Meaning of address extension at T, M tool change			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

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20098	DISPLAY_AXIS			EXP, C01	IAD
-	Display axis on HMI			DWORD	SOFORT
-					
-	20	0xFFFFFFFF, 0xFFFFFFFF, 0xFFFFFFFF, 0xFFFFFFFF, 0xFFFFFFFF...	-	-	7/2
840d-2a2c	2	-	-	-	-/-
840d-4a1cg	4	-	-	-	-/-

20100	DIAMETER_AX_DEF			C01, C10	P1
-	Geometry axis with transverse axis function			STRING	POWER ON
-					
-	-		-	-	7/2

20106	PROG_EVENT_IGN_SINGLEBLOCK			N01	-
-	Prog-Events ignore single block			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x1F	7/2

20107	PROG_EVENT_IGN_INHIBIT			N01	-
-	Prog-Events ignore read-in disable			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x1F	7/2

20108	PROG_EVENT_MASK			N01, -	K1
-	Setting of event-driven programm calls			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0xF	7/2

20109	PROG_EVENT_MASK_PROPERTIES			N01	K1
-	Properties of Prog-Events			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x1	7/2

20110	RESET_MODE_MASK			C11, C03	K1
-	Definition of basic control settings after reset/PP end			DWORD	RESET
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x7FFFF	7/2

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20112	START_MODE_MASK			C03	K1
-	Definition of basic control settings at NC Start			DWORD	RESET
-					
-	-	0x400,0x400,0x400, 0x400,0x400,0x400. ..	0	0x7FFFF	7/2

20114	MODESWITCH_MASK			C03	K1
-	Interruption MDA by mode change			DWORD	RESET
-					
-	-	0x0,0x0,0x0,0x0,0x 0,0x0,0x0,0x0,0x0...	0	0xFFFF	7/2

20116	IGNORE_INHIBIT_ASUP			C01	K1
-	Execuite interrupt program despite read-in disable			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	-	-	7/2

20117	IGNORE_SINGLEBLOCK_ASUP			C01	K1
-	Execute interrupt program completely despite single block			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	-	-	7/2

20118	GEOAX_CHANGE_RESET			C03	K1
-	Enable automatic geometry axis change			BOOLEAN	RESET
-					
-	-	FALSE,FALSE,FAL SE,FALSE,FALSE, FALSE...	-	-	7/2

20120	TOOL_RESET_VALUE			C03	K1
-	Tool with length compens. during runup (reset/part program end).			DWORD	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	0	32000	7/2

20121	TOOL_PRESEL_RESET_VALUE			C03	FBW,K1
-	Preselected tool on RESET			DWORD	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	0	32000	7/2

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20122	TOOL_RESET_NAME			C03	FBW
-	Active tool at RESET/START with tool management			STRING	RESET
-					
-	-		-	-	7/2

20123	USEKT_RESET_VALUE			C03	-
-	Preselected value of $P_USEKT on RESET			DWORD	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	0xF	7/2

20124	TOOL_MANAGEMENT_TOOLHOLDER			C03	FBW
-	Tool holder number			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	20	7/2

20125	CUTMOD_ERR			C08	-
-	Error handling for function CUTMOD			DWORD	SOFORT
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

20126	TOOL_CARRIER_RESET_VALUE			C03	W1
-	Active tool holder on RESET			DWORD	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

20127	CUTMOD_INIT			C08	-
-	Initialize CUTMOD after power ON			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-2	999999999	7/2

20128	COLLECT_TOOL_CHANGE			C04	FBW,K1
-	Tool change commands to PLC after search run			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	-	-	1/1

20130	CUTTING_EDGE_RESET_VALUE			C03	K1
-	Tool edge with length compens. during runup (reset/end of pp)			DWORD	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	32000	7/2

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20132	SUMCORR_RESET_VALUE			C03	W1
-	Effective resulting offset on RESET			DWORD	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	6	7/2

20140	TRAFO_RESET_VALUE			C03	K1
-	Transformation data block selected during runup (reset/pp end)			BYTE	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	10	7/2

20144	TRAFO_MODE_MASK			C07	M1
-	Function selection of kinematic transformation			BYTE	RESET
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x01	7/2

20150	GCODE_RESET_VALUES			C11, C03	K1,G2,F2
-	Initial setting of G groups			BYTE	RESET
-					
-	60	2, 0, 0, 1, 0, 1, 1, 1, 0, 1, 0, 1, 2, 1, 2, 1, 1, 1, 1, 1, 1...	-	-	7/2

20152	GCODE_RESET_MODE			C03	K1
-	Reset response of G groups			BYTE	RESET
-					
-	60	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	1	7/2

20154	EXTERN_GCODE_RESET_VALUES			C11, C03	FBFA
-	Initial setting of G groups in ISO mode			BYTE	RESET
-					
-	31	1, 1, 1, 2, 1, 1, 1, 3, 4, 1, 1, 2, 2, 1, 3, 2, 1, 0, 1, 1, 1...	-	-	2/2

20156	EXTERN_GCODE_RESET_MODE			C03	K1
-	Reset response of external G groups			BYTE	RESET
-					
-	31	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	1	7/2

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20160	CUBIC_SPLINE_BLOCKS			EXP, C09	K1
-	Number of blocks for C spline			BYTE	POWER ON
-					
-	-	8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8	4	9	7/2

20170	COMPRESS_BLOCK_PATH_LIMIT			C09	K1,PGA
mm	Maximum traversing distance of an NC block with compression			DOUBLE	NEW CONF
-					
-	-	1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0...	-	-	7/2

20172	COMPRESS_VELO_TOL			C09	V1,PGA
mm/min	Max. permissible deviation of path feedrate with compression			DOUBLE	POWER ON
-					
-	-	60000.0,60000.0,60000.0,60000.0,60000.0...	-	-	7/2

20178	ORISON_BLOCK_PATH_LIMIT			C09	K1,PGA
mm	Maximum traversing length with orientation smoothing			DOUBLE	NEW CONF
-					
-	-	20.0,20.0,20.0,20.0,20.0,20.0,20.0,20.0...	-	-	7/2

20180	TOCARR_ROT_ANGLE_INCR			C08	W1
-	Rotary axis increment of orientable tool holder			DOUBLE	NEW CONF
-					
-	2	0.0, 0.0,0.0, 0.0,0.0, 0.0,0.0, 0.0...	-	-	7/3

20182	TOCARR_ROT_ANGLE_OFFSET			C08	W1
-	Rotary axis offset of orientable tool holder			DOUBLE	NEW CONF
-					
-	2	0.0, 0.0,0.0, 0.0,0.0, 0.0,0.0, 0.0...	-	-	7/3

20184	TOCARR_BASE_FRAME_NUMBER			C08	W1
-	Base frame number for holding machine table offset			DWORD	NEW CONF
-					
-	-	-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1...	-1	15	7/3

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20188	TOCARR_FINE_LIM_LIN			C07	-
mm	Limit of linear fine offset TCARR			DOUBLE	SOFORT
-					
-	-	1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0...	-	-	7/3

20190	TOCARR_FINE_LIM_ROT			C07	-
degrees	Limit of rotary fine offset TCARR			DOUBLE	SOFORT
-					
-	-	1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0...	-	-	7/3

20200	CHFRND_MAXNUM_DUMMY_BLOCKS			EXP, C02, C06, C09	K1
-	Empty blocks with chamfer/radii			BYTE	POWER ON
-					
-	-	3,3,3,3,3,3,3,3,3,3,3,3,3,3,3	0	15	7/2

20201	CHFRND_MODE_MASK			C09	V1
-	Chamfer/rounding behavior			DWORD	RESET
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0xFFFF	7/2

20202	WAB_MAXNUM_DUMMY_BLOCKS			C02, C06	W1
-	maximum number of blocks w/o traversing movement with SAR			BYTE	RESET
-					
-	-	5,5,5,5,5,5,5,5,5,5,5,5,5,5,5	0	10	7/2

20204	WAB_CLEARANCE_TOLERANCE			C06	W1
mm	Change of direction with SAR			DOUBLE	POWER ON
-					
-	-	0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01...	-	-	7/2

20210	CUTCOM_CORNER_LIMIT			C08, C06	W1
degrees	Maximum angle f. compensation blocks in tool radius compensation			DOUBLE	RESET
-					
-	-	100.,100.,100.,100.,100.,100.,100.,100....	0.0	150.	7/2

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20220	CUTCOM_MAX_DISC			C08, C06	W1
-	Maximum value for DISC			DOUBLE	RESET
-					
-	-	50.0,50.0,50.0,50.0, 50.0,50.0,50.0...	0.0	75.0	7/2

20230	CUTCOM_CURVE_INSERT_LIMIT			C08, C06	W1
-	Maximum angle for calculation of intersection with TRC			DOUBLE	RESET
-					
-	-	10.,10.,10.,10.,10.,10.,10.,10.,10....	0.0	150.	7/2

20240	CUTCOM_MAXNUM_CHECK_BLOCKS			C08, C02	W1
-	Blocks for look-ahead contour calculation with TRC			DWORD	POWER ON
-					
-	-	4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	2	-	7/2

20250	CUTCOM_MAXNUM_DUMMY_BLOCKS			C08, C02	W1
-	maximum number of blocks without traversing motion in TRC			DWORD	POWER ON
-					
-	-	3,3,3,3,3,3,3,3,3,3,3,3,3,3,3	-	-	7/2

20252	CUTCOM_MAXNUM_SUPPR_BLOCKS			EXP, C01, C08, C02	W1
-	Maximum number of blocks with compensation suppression			DWORD	POWER ON
-					
-	-	5,5,5,5,5,5,5,5,5,5,5,5,5,5,5	-	-	7/2

20254	ONLINE_CUTCOM_ENABLE			EXP, C01, C08	W4
-	Real-time tool radius compensation enabled			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

20256	CUTCOM_INTERS_POLY_ENABLE			C09	W1
-	Intersection procedure for polynomials is possible			BOOLEAN	POWER ON
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/2

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20260	**PATH_IPO_IS_ON_TCP**			EXP, C09, C05	-
-	Velocity control with spline			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	0/0

20262	**SPLINE_FEED_PRECISION**			EXP, C09, C05	-
-	Permissible rel. error of path velocity for spline			DOUBLE	POWER ON
-					
-	-	0.001,0.001,0.001,0.001,0.001,0.001...	0.000001	1.0	0/0

20270	**CUTTING_EDGE_DEFAULT**			C11, C03	W1
-	Initial position of tool cutting edge without programming			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	-2	32000	7/2

20272	**SUMCORR_DEFAULT**			C03	W1
-	Initial position resulting offset without program			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-1	6	7/2

20310	**TOOL_MANAGEMENT_MASK**			C09	FBW
-	Activation of tool management functions			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0xFFFFFFF	7/2

20320	**TOOL_TIME_MONITOR_MASK**			C06, C09	FBW
-	Time monitoring for tool in tool holder			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	-	-	7/2

20350	**TOOL_GRIND_AUTO_TMON**			C06, C09	W4
-	Activation of tool monitoring. 0/1: Monitoring off/on			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/2

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20360	TOOL_PARAMETER_DEF_MASK			C09	W1
-	Definition of tool parameters			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0xFFFF	7/2

20370	SHAPED_TOOL_TYPE_NO			C01, C08	-
-	Tool type number for contour tools			DWORD	SOFORT
-					
-	4	0, 0, 0, 0,0, 0, 0, 0,0, 0, 0, 0...	-	-	7/2

20372	SHAPED_TOOL_CHECKSUM			C01, C08	-
-	Checksum test for contour tools			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/5

20380	TOOL_CORR_MODE_G43G44			C01, C08, C11	FBFA
-	Treatment of tool length compensation with G43 / G44			BYTE	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	2	7/2

20382	TOOL_CORR_MOVE_MODE			C01, C08	FBFA
-	Traversing of tool length compensation			BOOLEAN	RESET
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

20384	TOOL_CORR_MULTIPLE_AXES			C01, C08, C11	FBFA
-	Tool length compensation in several axes simultaneously			BOOLEAN	RESET
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/2

20390	TOOL_TEMP_COMP_ON			C01, C08	W1
-	Activation of temperature compensation for tool length			BOOLEAN	RESET
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

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20392	TOOL_TEMP_COMP_LIMIT			C01, C08	W1,BAS,PG
mm	Max. temperature compensation for tool length			DOUBLE	RESET
-					
-	3	1.0, 1.0 , 1.0,1.0, 1.0 , 1.0...	-	-	7/7

20396	TOOL_OFFSET_DRF_ON			C01, C08	W1
-	Handwheel override in tool direction			BOOLEAN	RESET
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE, FALSE...	-	-	7/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

20400	LOOKAH_USE_VELO_NEXT_BLOCK			EXP, C05	B1
-	LookAhead following block velocity			BOOLEAN	POWER ON
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/2

20430	LOOKAH_NUM_OVR_POINTS			EXP, C02, C05	B1
-	Number of override characteristics for LookAhead			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1 ,1,1,1,1,1	0	2	7/2

20440	LOOKAH_OVR_POINTS			EXP, C05	B1
-	Override switch points for Look Ahead			DOUBLE	POWER ON
-					
-	2	1.0, 0.2,1.0, 0.2,1.0, 0.2,1.0, 0.2...	0.2	2.0	7/2

20450	LOOKAH_RELIEVE_BLOCK_CYCLE			EXP, C05	B1
-	Relief factor for block cycle time			DOUBLE	POWER ON
-					
-	-	0.0,0.0,0.0,0.0,0.0,0 .0,0.0,0.0,0.0...	-	-	7/2

20455	LOOKAH_FUNCTION_MASK			EXP, C05	FBSI
-	Look Ahead special functions			BYTE	NEW CONF
-					
-	-	1,1,1,1,1,1,1,1,1,1 ,1,1,1,1,1	0	1	7/2

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20460	LOOKAH_SMOOTH_FACTOR			EXP, C05	B1
%	Smoothing factor for Look Ahead			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.	500.0	7/2

20462	LOOKAH_SMOOTH_WITH_FEED			EXP, C05	B1
-	Path velocity smoothing with programmed feed			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/2

20464	PATH_MODE_MASK			EXP, C05	-
-	Path behavior			DWORD	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	0xffff	7/2

20465	ADAPT_PATH_DYNAMIC			EXP, C05	B1
-	Adaptation of path dynamic response			DOUBLE	NEW CONF
-					
-	2	1.0, 1.0,1.0, 1.0,1.0, 1.0,1.0, 1.0,1.0...	1.0	100.0	7/2

20470	CPREC_WITH_FFW			EXP, C06, C05	K6,B1
-	Programmable contour accuracy			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

20480	SMOOTHING_MODE			EXP	B1
-	Behavior of smoothing with G64x			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	15344	7/7

20482	COMPRESSOR_MODE			EXP	F2,PGA
-	Mode of compressor			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	33	7/7

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20484	COMPRESSOR_PERFORMANCE			EXP	PGA
-	Compressor power			BYTE	RESET
-					
-	-	9,9,9,9,9,9,9,9,9,9,9,9,9,9,9,9	0	9	0/0

20488	SPLINE_MODE			EXP	-
-	Setting for spline interpolation			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	7	7/7

20490	IGNORE_OVL_FACTOR_FOR_ADIS			EXP	-
-	G641/G642 independent of overload factor			BOOLEAN	NEW CONF
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

20500	CONST_VELO_MIN_TIME			EXP, C05	B2
s	Minimum time with constant velocity			DOUBLE	POWER ON
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.0	0.1	7/2

20550	EXACT_POS_MODE			EXP	B1
-	Exact stop conditions on G00/G01.			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	33	7/2

20552	EXACT_POS_MODE_G0_TO_G1			EXP	PG
-	Exact stop condition at G00-G01 transition			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	5	7/2

20600	MAX_PATH_JERK			C05	B2
m/s^3	Path-related maximum jerk			DOUBLE	NEW CONF
-					
-	5	100., 100., 100., 100., 100....	1.e-9	-	7/2

20602	CURV_EFFECT_ON_PATH_ACCEL			EXP, C05	B1
-	Effect of path curvature on path dynamic			DOUBLE	NEW CONF
-					
-	5	0., 0., 0., 0., 0.,0., 0., 0., 0., 0....	0.	0.95	7/2

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20603	CURV_EFFECT_ON_PATH_JERK			EXP, C05	B1
-	Effect of path curvature on path jerk			DOUBLE	NEW CONF
-					
-	5	0., 0., 0., 0., 0.,0., 0., 0., 0., 0....	0.	1000.	7/2

20610	ADD_MOVE_ACCEL_RESERVE			C05	K1,B1,B2
-	Acceleration margin for overlaid movements			DOUBLE	POWER ON
-					
-	-	.2,.2,.2,.2,.2,.2,.2,.2, .2,.2,.2,.2,.2...	0.	0.9	7/2

20620	HANDWH_GEOAX_MAX_INCR_SIZE			C08, C06	H1
mm	Limitation handwheel increment for geometry axes			DOUBLE	POWER ON
-					
-	-	0.0,0.0,0.0,0.0,0.0,0 .0,0.0,0.0,0.0...	-	-	7/2

20621	HANDWH_ORIAX_MAX_INCR_SIZE			C08, C06	F2
degrees	Limiting of handwheel increment for orientation axes			DOUBLE	POWER ON
-					
-	-	0.0,0.0,0.0,0.0,0.0,0 .0,0.0,0.0,0.0...	-	-	7/2

20622	HANDWH_GEOAX_MAX_INCR_VSIZE			C08, C06, C05	H1
mm/min	Path velocity override			DOUBLE	POWER ON
-					
-	-	500.,500.,500.,500., 500.,500.,500....	-	-	7/2

20623	HANDWH_ORIAX_MAX_INCR_VSIZE			C08, C06, C05	F2
rev/min	Orientation velocity overlay			DOUBLE	POWER ON
-					
-	-	0.1,0.1,0.1,0.1,0.1,0 .1,0.1,0.1,0.1...	-	-	7/2

20624	HANDWH_CHAN_STOP_COND			EXP, C09	H1
-	Definition of response of handwheel travel, channel-specific			DWORD	POWER ON
-					
-	-	0x13FF,0x13FF,0x13FF,0x13FF,0x13FF...	0	0xFFFF	7/2

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20700	REFP_NC_START_LOCK			C01, C03	R1
-	NC start disable without reference point			BOOLEAN	RESET
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/2

20730	G0_LINEAR_MODE			C09	P2
-	G0 interpolation mode			BOOLEAN	POWER ON
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/2

20732	EXTERN_G0_LINEAR_MODE			N12	P2
-	G00 interpolation mode			BOOLEAN	POWER ON
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/2

20734	EXTERN_FUNCTION_MASK			N12	FBFA
-	Function mask for external language			DWORD	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	0	0xFFFF	7/2

20750	ALLOW_G0_IN_G96			C09, C05	V1
-	G0 logic with G96			BOOLEAN	POWER ON
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/2

20800	SPF_END_TO_VDI			C04, C03	H2
-	End of subroutine to PLC			BYTE	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1 ,1,1,1,1,1	-	-	7/2

20850	SPOS_TO_VDI			C04, C03	S1
-	Output of M19 to PLC on SPOS/SPOSA			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	-	-	7/2

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20900	CTAB_ENABLE_NO_LEADMOTION			EXP	M3
-	Curve tables with jump of slave axis			BYTE	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	2	7/2

20905	CTAB_DEFAULT_MEMORY_TYPE			EXP	M3
-	Default memory type for curve tables			BYTE	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/2

21000	CIRCLE_ERROR_CONST			C06	K1
mm	Circle end point monitoring constant			DOUBLE	POWER ON
-					
-	-	0.01,0.01,0.01,0.01,0.01,0.01,0.01...	-	-	7/2

21010	CIRCLE_ERROR_FACTOR			C06	K1
-	Circle end point monitoring factor			DOUBLE	POWER ON
-					
-	-	0.001,0.001,0.001,0.001,0.001,0.001...	-	-	7/2

21015	INVOLUTE_RADIUS_DELTA			C06	PG
mm	Involute end point monitoring			DOUBLE	POWER ON
-					
-	-	0.01,0.01,0.01,0.01,0.01,0.01,0.01...	-	-	7/2

21016	INVOLUTE_AUTO_ANGLE_LIMIT			C06	PG
-	Automatic angle limitation during involute interpolation			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

21020	WORKAREA_WITH_TOOL_RADIUS			C03, C06	A3
-	Consideration of tool radius for working area limitation			BOOLEAN	RESET
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

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21050	CONTOUR_TUNNEL_TOL			C06	F2
mm	Response threshold for contour tunnel monitoring			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/2

21060	CONTOUR_TUNNEL_REACTION			C06	F2
-	Reaction when contour tunnel monitoring responds			BYTE	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	0	2	7/2

21070	CONTOUR_ASSIGN_FASTOUT			C01, C06	F2
-	Assignment of an analog output for the output of contour error			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	8	7/2

21080	CUTCOM_PARALLEL_ORI_LIMIT			C08, C06	W5
degrees	Minimum angle (path tangent / tool orientation) in 3D TRC			DOUBLE	RESET
-					
-	-	3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3....	0.1	89.	7/2

21082	CUTCOM_PLANE_ORI_LIMIT			C08, C06	W5
degrees	Minimum angle between surface normal vector and tool orientation			DOUBLE	RESET
-					
-	-	3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3....	1.0	89.	7/2

21084	CUTCOM_PLANE_PATH_LIMIT			C08, C06	W5
degrees	Min. angle betw. surface normal vector and path tangent vector			DOUBLE	RESET
-					
-	-	3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3.,3....	1.0	89.	7/2

21090	MAX_LEAD_ANGLE			C08, C09	-
degrees	Maximum value of permitted lead angle for orientation progr.			DOUBLE	NEW CONF
-					
-	-	80.,80.,80.,80.,80.,80.,80.,80.,80.,80....	0.	80.	7/7

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21092	MAX_TILT_ANGLE			C08, C09	-
degrees	Maximum value of permitted side angle for orientation progr.			DOUBLE	NEW CONF
-					
-	-	180.,180.,180.,180.,180.,180.,180....	-180.	180.	7/7

21094	ORIPATH_MODE			C02	-
-	Setting for ORIPATH path-relative orientation			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	211	7/7

21100	ORIENTATION_IS_EULER			C01, C09	F2
-	Angle definition for orientation programming			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/7

21102	ORI_DEF_WITH_G_CODE			C01, C07	F2
-	Definition of orientation axes with G code			BOOLEAN	NEW CONF
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

21103	ORI_ANGLE_WITH_G_CODE			C01, C07	-
-	Definition of orientation angles via G code			BOOLEAN	NEW CONF
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

21104	ORI_IPO_WITH_G_CODE			C01, C07	F2
-	G code for orientation interpolation			BOOLEAN	NEW CONF
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

21106	CART_JOG_SYSTEM			C01, C07	H1
-	Coordinate systems for Cartesian JOG			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	7	7/2

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21108	**POLE_ORI_MODE**			C07	-
-	Response with vector interpolation in pole position			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	122	7/7

21110	**X_AXIS_IN_OLD_X_Z_PLANE**			EXP, C01, C09	M1
-	Coordinate system for automatic frame definition			BOOLEAN	POWER ON
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/7

21120	**ORIAX_TURN_TAB_1**			C07	F2
-	Definition of reference axes for orientation axes			BYTE	NEW CONF
-					
-	3	1, 2, 3,1, 2, 3,1, 2, 3,1, 2, 3...	0	3	7/2

21130	**ORIAX_TURN_TAB_2**			C07	F2
-	Definition of reference axes for orientation axes			BYTE	NEW CONF
-					
-	3	1, 2, 3,1, 2, 3,1, 2, 3,1, 2, 3...	0	3	7/2

21150	**JOG_VELO_RAPID_ORI**			C07	-
rev/min	JOG rapid traverse for orientation axes			DOUBLE	RESET
-					
-	3	10.0, 10.0, 10.0,10.0, 10.0, 10.0...	-	-	7/2

21155	**JOG_VELO_ORI**			C07	-
rev/min	Jog feedrate for orientation axes			DOUBLE	RESET
-					
-	3	2.0, 2.0, 2.0,2.0, 2.0, 2.0...	-	-	7/2

21160	**JOG_VELO_RAPID_GEO**			C07	F2
mm/min	JOG rapid traverse for geometry axes			DOUBLE	RESET
-					
-	3	10000., 10000.0, 10000.,10000., 10000.0, 10000....	-	-	7/2

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21165	JOG_VELO_GEO			C07	F2
mm/min	Jog feedrate for geometry axes			DOUBLE	RESET
-					
-	3	1000., 1000., 1000.,1000., 1000., 1000....	-	-	7/2

21170	ACCEL_ORI			C07	-
rev/s²	Acceleration for ORI axes			DOUBLE	NEW CONF
-					
-	3	.05, .05, .05,.05, .05, .05...	-	-	7/2

21180	ROT_AX_SWL_CHECK_MODE			C07	F2
-	Check of software limits for orientation axes			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	112	7/7

21186	TOCARR_ROT_OFFSET_FROM_FR			C01, C07	-
-	Offset of TOCARR rotary axes from WO			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

21190	TOFF_MODE			C08	F2
-	Mode of correction in tool direction			BYTE	RESET
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

21194	TOFF_VELO			C08	F2
mm/min	Feedrate for online correction in tool direction			DOUBLE	NEW CONF
-					
-	3	0., 0., 0.,0., 0., 0.,0., 0., 0....	-	-	7/2

21196	TOFF_ACCEL			C08	F2
m/s²	Acceleration for online correction in tool direction			DOUBLE	NEW CONF
-					
-	3	100., 100., 100.,100., 100., 100....	1.0e-3	-	7/2

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21200	LIFTFAST_DIST			C09	K1
mm	Traversing distance on rapid lift from contour			DOUBLE	POWER ON
-					
-	-	0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1...	-	-	7/2

21202	LIFTFAST_WITH_MIRROR			C09	K1
-	Rapid retract with mirrorring			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

21204	LIFTFAST_STOP_COND			C09	PGA
-	Stop behavior with fast retraction			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

21210	SETINT_ASSIGN_FASTIN			C01, C09	K1
-	HW assignment of ext. NCK input byte for NC progr. interrupts			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	-	-	7/2

21220	MULTFEED_ASSIGN_FASTIN			C01, C09	V1
-	Assignment of the NCK I/Os for 'several feedrates in the block'			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

21230	MULTFEED_STORE_MASK			C01, C09	V1
-	Memory response for 'several feedrates in the block'			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

21240	PREVENT_SYNACT_LOCK_CHAN			C01, C09	FBSY
-	Protected synchronized actions			DWORD	POWER ON
-					
-	2	-1, -1,-1, -1,-1, -1,-1, -1,-1, -1...	-1	255	7/2

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21300	COUPLE_AXIS_1			C09	S3
-	Synchr.spindle pair def, mach.axis no: follow.sp[0], lead.sp[1]			BYTE	POWER ON
-					
-	2	0, 0,0, 0,0, 0,0, 0,0, 0,0, 0...	0	31	7/2

21310	COUPLING_MODE_1			C03, C09	S3
-	Type of coupling in synchronous spindle operation			BYTE	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	0	2	7/2

21320	COUPLE_BLOCK_CHANGE_CTRL_1			C09	S3
-	Block change behavior in synchronous spindle operation			BYTE	POWER ON
-					
-	-	3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3	0	3	7/2

21330	COUPLE_RESET_MODE_1			C03, C09	S3
-	Coupling abort behavior			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	0	0x3FF	7/2

21340	COUPLE_IS_WRITE_PROT_1			C09	S3
-	Coupling parameters cannot be altered			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

21380	ESR_DELAY_TIME1			EXP, N09	M3
s	Delay time ESR axes			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/2

21381	ESR_DELAY_TIME2			EXP, N09	M3
s	ESR time for IPO controlled braking			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/2

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2.4.2 Machine data for grinding function

21500	TRACLG_GRINDSPI_VERT_OFFSET			C07	S8
mm	Vertical position offset of grinding axis in centerless grinding			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0., 0.,0.,0.,0.,0....	-	-	7/2

21501	TRACLG_GRINDSPI_HOR_OFFSET			C07	S8
mm	Horiz. position offset of grinding axis in centerless grinding			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0., 0.,0.,0.,0.,0....	-	-	7/2

21502	TRACLG_CTRLSPI_VERT_OFFSET			C07	S8
mm	vert. position offset of regulating axis in centerless grinding			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0., 0.,0.,0.,0.,0....	-	-	7/2

21504	TRACLG_SUPPORT_VERT_OFFSET			C07	S8
mm	Vertical offset of work blade in centerless grinding			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0., 0.,0.,0.,0.,0....	-	-	7/2

21506	TRACLG_SUPPORT_HOR_OFFSET			C07	S8
mm	Horizontal offset of work blade in centerless grinding			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0., 0.,0.,0.,0.,0....	-	-	7/2

21508	TRACLG_VERT_DIR_SUPPORTAX_1			C07	S8
-	Vertical component of work blade direction vector for Q1			DOUBLE	POWER ON
-					
-	-	1.,1.,1.,1.,1.,1.,1.,1., 1.,1.,1.,1.,1....	-	-	7/2

21510	TRACLG_HOR_DIR_SUPPORTAX_1			C07	S8
-	Horizontal component of work blade direction vector for Q1			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0., 0.,0.,0.,0.,0....	-	-	7/2

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21512	TRACLG_VERT_DIR_SUPPORTAX_2			C07	S8
-	Vertical component of work blade direction vector for Q2			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/2

21514	TRACLG_HOR_DIR_SUPPORTAX_2			C07	S8
-	Horizontal component of work blade direction vector for Q2			DOUBLE	POWER ON
-					
-	-	1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1....	-	-	7/2

21516	TRACLG_SUPPORT_LEAD_ANGLE			C07	S8
degrees	Lead angle of work blade in centerless grinding			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-90.	90.	7/2

21518	TRACLG_CONTACT_UPPER_LIMIT			C07	S8
mm	Upper contact limit of work blade with work in centerl. grinding			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/2

21520	TRACLG_CONTACT_LOWER_LIMIT			C07	S8
mm	Lower contact limit of work blade with work in centerl. grinding			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/2

21522	TRACLG_GRINDSPI_NR			C07	S8
-	Definition of grinding spindle for centerless grinding			BYTE	POWER ON
-					
-	-	2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2	1	20	7/2

21524	TRACLG_CTRLSPI_NR			C07	S8
-	Definition of regulating spindle for centerless grinding			BYTE	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	1	20	7/2

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21526	TRACLG_G0_IS_SPECIAL			C07	S8
-	Special logic for G0 in centerless grinding			BOOLEAN	POWER ON
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/2

2.4.3 Channel auxiliary function settings

22000	AUXFU_ASSIGN_GROUP			C04	H2
-	Auxiliary function group			BYTE	POWER ON
-					
-	255	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,1, 1...	1	64	7/2

22010	AUXFU_ASSIGN_TYPE			C04	H2
-	Auxiliary function type			STRING	POWER ON
-					
-	255	"", "", "",

22040	AUXFU_PREDEF_GROUP			C04	H2
-	Predefined auxiliary function groups			BYTE	POWER ON
-					
-	33	1, 1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 4, 4, 4, 4, 4, 4, 3, 1, 1, 1...	0	64	7/2

22050	AUXFU_PREDEF_TYPE			C04	H2
-	Predefined auxiliary function type			STRING	POWER ON
-					
-	33	"M", "M", "M", "M", "M", "M", "M", "M", "M", "M","M", "M", "M"...	-	-	7/2

22060	AUXFU_PREDEF_EXTENSION			C04	H2
-	Predefined auxiliary function extension			BYTE	POWER ON
-					
-	33	0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0...	0	99	7/2

22070	AUXFU_PREDEF_VALUE			C04	H2
-	Predefined auxiliary function value			DWORD	POWER ON
-					
-	33	0, 1, 2, 17, 30, 6, 3, 4, 5, 19, 70, 40, 41, 42, 43, 44, 45, -1...	-	-	7/2

22080	AUXFU_PREDEF_SPEC			C04	H2
-	Output specification			DWORD	POWER ON
-					
-	33	0x81, 0x81, 0x81, 0x81, 0x81, 0x21, 0x21, 0x21, 0x21, 0x21,0x21...	-	-	7/2

22100	AUXFU_QUICK_BLOCKCHANGE			C04	H2
-	Block change delay with quick auxiliary functions.			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/2

22110	AUXFU_H_TYPE_INT			C11, C04	H2
-	Data format of H auxiliary functions (integer/real)			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/2

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22200	AUXFU_M_SYNC_TYPE			C04	H2
-	Output time of M functions			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	3	7/2

22210	AUXFU_S_SYNC_TYPE			C04	H2
-	Output time of S functions (see MD22200 for values)			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	4	7/2

22220	AUXFU_T_SYNC_TYPE			C11, C04	H2
-	Output time for T functions (see MD22200 for values)			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	4	7/2

22230	AUXFU_H_SYNC_TYPE			C04	H2
-	Output time for H functions (see MD22200 for values)			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	3	7/2

22240	AUXFU_F_SYNC_TYPE			C04	H2
-	Output time for F functions (see MD22200 for values)			BYTE	POWER ON
-					
-	-	3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3	0	4	7/2

22250	AUXFU_D_SYNC_TYPE			C04	H2
-	Output time for D functions (see MD22200 for values)			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	4	7/2

22252	AUXFU_DL_SYNC_TYPE			C04	H2
-	Output time of DL functions			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	4	7/2

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22254	AUXFU_ASSOC_M0_VALUE			C01, C03, C10	H2
-	Additional M function to stop a program			DWORD	POWER ON
-					
-	-	-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1...	-	-	7/2

22256	AUXFU_ASSOC_M1_VALUE			C01, C03, C10	H2
-	Additional M function for conditional stop			DWORD	POWER ON
-					
-	-	-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1...	-	-	7/2

22400	S_VALUES_ACTIVE_AFTER_RESET			C04, C03, C05	S1
-	S function active beyond RESET			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

22410	F_VALUES_ACTIVE_AFTER_RESET			C04, C03, C05	V1
-	F function active beyond RESET			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

22420	FGROUP_DEFAULT_AXES			C11	FBFA
-	Default setting for FGROUP command			BYTE	POWER ON
-					
-	8	0, 0, 0, 0, 0, 0, 0, 0,0, 0, 0, 0, 0, 0, 0, 0...	-	-	7/7

22510	GCODE_GROUPS_TO_PLC			C04	K1
-	G codes output at NCK-PLC interface on block change/RESET			BYTE	POWER ON
-					
-	8	0, 0, 0, 0, 0, 0, 0, 0,0, 0, 0, 0, 0, 0, 0, 0...	-	-	7/2

22512	EXTERN_GCODE_GROUPS_TO_PLC			C11, C04	FBFA
-	Send G commands of an external NC language to PLC			BYTE	POWER ON
-					
-	8	0, 0, 0, 0, 0, 0, 0, 0,0, 0, 0, 0, 0, 0, 0, 0...	-	-	7/2

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22515	**GCODE_GROUPS_TO_PLC_MODE**			C04	-
-	Behavior of G group transfer to PLC			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/2

22530	**TOCARR_CHANGE_M_CODE**			C04	W1
-	M code at change of tool holder			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-99999999	99999999	7/2

22532	**GEOAX_CHANGE_M_CODE**			C04	K2
-	M code at change of geo axes			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	99999999	7/2

22534	**TRAFO_CHANGE_M_CODE**			C04	M1
-	M code at change of transformation			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	99999999	7/2

22550	**TOOL_CHANGE_MODE**			C01, C11, C04, C09	W1
-	New tool compensation for M function			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/2

22560	**TOOL_CHANGE_M_CODE**			C01, C04, C09	W1
-	M function for tool change			DWORD	POWER ON
-					
-	-	6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6	0	99999999	7/2

22562	**TOOL_CHANGE_ERROR_MODE**			C09	W1
-	Response to tool change errors			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0xFF	7/2

22600	**SERUPRO_SPEED_MODE**			EXP	-
-	Speed for block search run type 5			DWORD	SOFORT
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	-	-	2/2

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22601	SERUPRO_SPEED_FACTOR			EXP	K1
-	Speed factor for search run type 5			DOUBLE	SOFORT
-					
-	-	10.0,10.0,10.0,10.0, 10.0,10.0,10.0...	1.0	-	2/2

22620	START_MODE_MASK_PRT			EXP, C03	K1
-	Initial setting on special starts			DWORD	RESET
-					
-	-	0x400,0x400,0x400, 0x400,0x400,0x400. ..	0	0xFFFF	7/2

22621	ENABLE_START_MODE_MASK_PRT			EXP, C03	K1
-	Enables $MC_START_MODE_MASK_PRT			DWORD	RESET
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x 0,0x0,0x0,0x0,0x0,0x0...	0	0x1	7/2

22622	DISABLE_PLC_START			EXP	-
-	Enable part program start via PLC			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x 0,0x0,0x0,0x0,0x0,0x0...	-	-	2/2

22680	AUTO_IPTR_LOCK			EXP, C03	-
-	Disable interrupt pointer			DWORD	RESET
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x 0,0x0,0x0,0x0,0x0,0x0...	0	0x3	7/2

22700	TRACE_STARTTRACE_EVENT			EXP, C06	BA,S5,FBSY
-	Diagnostic data rec. starts with event TRACE_STARTTRACE_EVENT.			STRING	POWER ON
NBUP					
-	-		-	-	2/2

22702	TRACE_STARTTRACE_STEP			EXP, C06	BA,S5,FBSY
-	Conditions for start of trace recording			STRING	POWER ON
NBUP					
-	2	"","","","","","","","", "","","","...	-	-	2/2

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22704	TRACE_STOPTRACE_EVENT			EXP, C06	BA,S5,FBSY
-	Conditions for stop of trace recording			STRING	POWER ON
NBUP					
-	-	"CLEARCANCELALARM_M","CLEARCANCELALARM_M"...	-	-	2/2

22706	TRACE_STOPTRACE_STEP			EXP, C06	BA,S5,FBSY
-	CommandSequenzStep with which the recording ends			STRING	POWER ON
NBUP					
-	2	"","","","","","","","","","","","...	-	-	2/2

22708	TRACE_SCOPE_MASK			EXP, C06	BA,S5,FBSY
-	Selects the contents of the trace file			STRING	POWER ON
NBUP					
-	-		-	-	2/2

22710	TRACE_VARIABLE_NAME			-	BA,S5,FBSY
-	Definition of trace data			STRING	POWER ON
NBUP					
-	10	"BL_NR", "TR_POINT", "EV_TYPE", "EV_SRC", "CS_ASTEP"...	-	-	2/2

22712	TRACE_VARIABLE_INDEX			EXP, C06	BA,S5,FBSY
-	Index for trace recording data			DWORD	POWER ON
NBUP					
-	10	0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0...	0	0xFFFF	2/2

22714	MM_TRACE_DATA_FUNCTION			EXP, C02, C06	BA,S5,FBSY
-	Activating diagnostics			DWORD	POWER ON
NBUP					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0xFFFF	2/2

22800	TRACE_COMPRESSOR_OUTPUT			EXP, C01	D1
-	Activation of trace output for compressor			BYTE	POWER ON
NBUP					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	0/0

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22900	STROKE_CHECK_INSIDE			EXP, C01, C11	FBFA
-	Direction (inside/outside) in which prot. zone 3 is effective			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

22910	WEIGHTING_FACTOR_FOR_SCALE			EXP, C01, C11	FBFA
-	Input resolution for scaling factor			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

22914	AXES_SCALE_ENABLE			EXP, C01, C11	FBFA
-	Activation for axial scaling factor (G51)			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

22920	EXTERN_FIXED_FEEDRATE_F1_ON			EXP, C01, C11	FBFA
-	Activation of fixed feedrates F1 - F9			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

22930	EXTERN_PARALLEL_GEOAX			EXP, C01, C11	FBFA
-	Assignment of a parallel channel axis to the geometry axis			BYTE	POWER ON
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/2

24000	FRAME_ADD_COMPONENTS			C03	K2
-	Frame components for G58 and G59			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/7

24002	CHBFRAME_RESET_MASK			C03	K2
-	Active channel-specific base frames after reset			DWORD	RESET
-					
-	-	0xFFFF,0xFFFF,0xFFFF,0xFFFF,0xFFFF...	0	0xFFFF	7/2

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24004	CHBFRAME_POWERON_MASK			C03	FBFA
-	Reset channel-specific base frames after power on			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0xFFFF	7/2

24006	CHSFRAME_RESET_MASK			C03	K2
-	Active system frames after reset			DWORD	RESET
-					
-	-	0x1,0x1,0x1,0x1,0x1,0x1,0x1,0x1,0x1,0x1...	0	0x000007FF	7/2

24007	CHSFRAME_RESET_CLEAR_MASK			C03	-
-	Deletion of system frames after reset			DWORD	RESET
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x000007FF	7/2

24008	CHSFRAME_POWERON_MASK			C03	K2
-	Reset channel system frames after power on			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x000007FF	7/2

24010	PFRAME_RESET_MODE			C03	K2
-	Reset mode for programmable frame			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/2

24020	FRAME_SUPPRESS_MODE			C03	K2
-	Positions for frame suppression			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x0000003	7/2

24030	FRAME_ACS_SET			C03	K2
-	Adjustment of SZS coordinate system			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/2

24040	FRAME_ADAPT_MODE			C03	-
-	Adaptation of active frames			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x0000007	7/2

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24050	FRAME_SAA_MODE			C03	-
-	Saving and activating of data management frames			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x0000003	7/2

2.4.4 Transformation definitions in channel

24100	TRAFO_TYPE_1			C07	F2
-	Definition of transformation 1 in channel			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

24110	TRAFO_AXES_IN_1			C07	F2
-	Axis assignment for the 1st transformation in the channel			BYTE	NEW CONF
-					
-	20	1, 2, 3, 4, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	7/7

24120	TRAFO_GEOAX_ASSIGN_TAB_1			C07	F2
-	Assignment of geometry axes to channel axes for transformation 1			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/7

24130	TRAFO_INCLUDES_TOOL_1			C07	M1,F2
-	Tool handling with 1st active transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/7

24200	TRAFO_TYPE_2			C07	F2
-	Definition of the 2nd transformation in the channel			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

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24210	TRAFO_AXES_IN_2			C07	F2
-	Axis assignment for transformation 2			BYTE	NEW CONF
-					
-	20	1, 2, 3, 4, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	7/7

24220	TRAFO_GEOAX_ASSIGN_TAB_2			C07	F2
-	Assignment of geometry axes to channel axes for transformation 2			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/7

24230	TRAFO_INCLUDES_TOOL_2			C07	M1,F2
-	Tool handling with active 2nd transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

24300	TRAFO_TYPE_3			C07	F2
-	Definition of the 3rd transformation in the channel			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	-	-	7/7

24310	TRAFO_AXES_IN_3			C07	F2
-	Axis assignment for transformation 3			BYTE	NEW CONF
-					
-	20	1, 2, 3, 4, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	7/7

24320	TRAFO_GEOAX_ASSIGN_TAB_3			C07	F2
-	Assignment of geometry axes to channel axes for transformation 3			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/7

24330	TRAFO_INCLUDES_TOOL_3			C07	M1,F2
-	Tool handling with active 3rd transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

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24400	TRAFO_TYPE_4			C07	F2
-	Definition of the 4th transformation in the channel			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

24410	TRAFO_AXES_IN_4			C07	F2
-	Axis assignment for the 4th transformation in the channel			BYTE	NEW CONF
-					
-	20	1, 2, 3, 4, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	7/7

24420	TRAFO_GEOAX_ASSIGN_TAB_4			C07	F2
-	Assignment of geometry axes to channel axes for transformation 4			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/7

24426	TRAFO_INCLUDES_TOOL_4			C07	M1,F2
-	Tool handling with active 4th transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

24430	TRAFO_TYPE_5			C07	F2,M1
-	Type of transformation 5 in the channel			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

24432	TRAFO_AXES_IN_5			C07	F2,M1
-	Axis assignment for transformation 5			BYTE	NEW CONF
-					
-	20	1, 2, 3, 4, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	7/7

24434	TRAFO_GEOAX_ASSIGN_TAB_5			C07	F2,M1
-	Assignment of geometry axes to channel axes for transformation 5			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/7

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24436	TRAFO_INCLUDES_TOOL_5			C07	M1,F2
-	Tool handling with active 5th transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

24440	TRAFO_TYPE_6			C07	F2,M1
-	Type of transformation 6 in the channel			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	-	-	7/7

24442	TRAFO_AXES_IN_6			C07	F2,M1
-	Axis assignment for transformation 6			BYTE	NEW CONF
-					
-	20	1, 2, 3, 4, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	7/7

24444	TRAFO_GEOAX_ASSIGN_TAB_6			C07	F2,M1
-	Assignment of geometry axes to channel axes for transformation 6			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0, 0...	0	20	7/7

24446	TRAFO_INCLUDES_TOOL_6			C07	M1,F2
-	Tool handling with active 6th transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

24450	TRAFO_TYPE_7			C07	F2,M1
-	Type of transformation 7 in the channel			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	-	-	7/7

24452	TRAFO_AXES_IN_7			C07	F2,M1
-	Axis assignment for transformation 7			BYTE	NEW CONF
-					
-	20	1, 2, 3, 4, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	7/7

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24454	TRAFO_GEOAX_ASSIGN_TAB_7			C07	F2,M1
-	Assignment of geometry axes to channel axes for transformation 7			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/7

24456	TRAFO_INCLUDES_TOOL_7			C07	M1,F2
-	Tool handling with active 7th transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

24460	TRAFO_TYPE_8			C07	F2,M1
-	Type of transformation 8 in the channel			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

24462	TRAFO_AXES_IN_8			C07	F2,M1
-	Axis assignment for transformation 8			BYTE	NEW CONF
-					
-	20	1, 2, 3, 4, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	7/7

24464	TRAFO_GEOAX_ASSIGN_TAB_8			C07	F2,M1
-	Assignment of geometry axes to channel axes for transformation 8			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/7

24466	TRAFO_INCLUDES_TOOL_8			C07	M1,F2
-	Tool handling with 8th active transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

24470	TRAFO_TYPE_9			C07	M1
-	Type of transformation 9 in the channel			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

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24472	TRAFO_AXES_IN_9			C07	M1
-	Axis assignment for transformation 9			BYTE	NEW CONF
-					
-	20	1, 2, 3, 4, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	7/7

24474	TRAFO_GEOAX_ASSIGN_TAB_9			C07	M1
-	Assignment of geometry axes to channel axes for transformation 9			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/7

24476	TRAFO_INCLUDES_TOOL_9			C07	M1
-	Treatment of tool with active 9th transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

24480	TRAFO_TYPE_10			C07	M1
-	Transformation 10 in channel			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	-	-	7/7

24482	TRAFO_AXES_IN_10			C07	M1
-	Axis assignment for transformation 10			BYTE	NEW CONF
-					
-	20	1, 2, 3, 4, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	7/7

24484	TRAFO_GEOAX_ASSIGN_TAB_10			C07	M1
-	Assignment of geometry axes to channel axes f. transformation 10			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/7

24486	TRAFO_INCLUDES_TOOL_10			C07	M1
-	Treatment of tool with active 10th transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

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24500	TRAFO5_PART_OFFSET_1			C07	F2
mm	Offset vector of 5-axis transformation 1			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24510	TRAFO5_ROT_AX_OFFSET_1			C07	F2
degrees	Position offset of rotary axes 1/2/3 for 5-axis transformation 1			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0, 0.0,0.0, 0.0, 0.0...	-	-	7/7

24520	TRAFO5_ROT_SIGN_IS_PLUS_1			C07	F2
-	Sign of rotary axis 1/2/3 for 5-axis transformation 1			BOOLEAN	NEW CONF
-					
-	3	TRUE, TRUE, TRUE,TRUE, TRUE, TRUE...	-	-	7/7

24530	TRAFO5_NON_POLE_LIMIT_1			C07	F2
degrees	Definition of pole range for 5-axis transformation 1			DOUBLE	NEW CONF
-					
-	-	2.0,2.0,2.0,2.0,2.0,2.0,2.0,2.0,2.0,2.0...	-	-	7/7

24540	TRAFO5_POLE_LIMIT_1			C07	F2
degrees	End angle toler. with interpol. through pole for 5-axis transf.			DOUBLE	NEW CONF
-					
-	-	2.0,2.0,2.0,2.0,2.0,2.0,2.0,2.0,2.0,2.0...	-	-	7/7

24542	TRAFO5_POLE_TOL_1			C07	-
degrees	End angle tolerance for pole interpolation			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0	-	7/7

24550	TRAFO5_BASE_TOOL_1			C07	F2
mm	Vector of base tool on activation of 5-axis transformation 1			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

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24558	TRAFO5_JOINT_OFFSET_PART_1			C07	F2
mm	Vector of kinematic table offset			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24560	TRAFO5_JOINT_OFFSET_1			C07	F2
mm	Vector of the kinem.offset of the 1st 5-axis transf. in channel			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24561	TRAFO6_JOINT_OFFSET_2_3_1			C07	-
mm	Vector of kinematic offset			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24562	TRAFO5_TOOL_ROT_AX_OFFSET_1			C07	F2
mm	Offset of swivel point of 1st rotary axis on 5-axis transform. 1			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24564	TRAFO5_NUTATOR_AX_ANGLE_1			C07	F2
degrees	Nutating head angle in 5-axis transformation			DOUBLE	NEW CONF
-					
-	-	45.0,45.0,45.0,45.0, 45.0,45.0,45.0...	-89.	89.	7/7

24566	TRAFO5_NUTATOR_VIRT_ORIAX_1			C07	-
-	Virtual orientation axes			BOOLEAN	NEW CONF
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE, FALSE...	-	-	7/7

24570	TRAFO5_AXIS1_1			C07	F2
-	Direction of 1st rotary axis			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

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24572	TRAFO5_AXIS2_1			C07	F2
-	Direction of 2nd rotary axis			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24573	TRAFO5_AXIS3_1			C07	-
-	Direction of third rotary axis			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24574	TRAFO5_BASE_ORIENT_1			C07	-
-	Vector of the tool base orientation for 5-axis transformation			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24576	TRAFO6_BASE_ORIENT_NORMAL_1			C07	-
-	Normal tool vector in 6-axis transformation			DOUBLE	NEW CONF
-					
-	3	0.0, 1.0 , 0.0,0.0, 1.0 , 0.0...	-	-	7/7

24580	TRAFO5_TOOL_VECTOR_1			C07	F2
-	Direction of orientation vector for the first 5-axis transf.			BYTE	NEW CONF
-					
-	-	2,2,2,2,2,2,2,2,2,2 ,2,2,2,2,2	0	2	7/2

24582	TRAFO5_TCARR_NO_1			C07	-
-	TCARR number for the first 5-axis transformation			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	-	-	7/7

24585	TRAFO5_ORIAX_ASSIGN_TAB_1			C07	F2
-	Orientation axis / channel axis assignment transformation 1			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/2

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24590	**TRAFO5_ROT_OFFSET_FROM_FR_1**			C01, C07	-
-	Offset of transformation rotary axes from WO.			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

24600	**TRAFO5_PART_OFFSET_2**			C07	F2
mm	Offset vector of the 2nd 5-axis transformation in the channel			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24610	**TRAFO5_ROT_AX_OFFSET_2**			C07	-
degrees	Position offset of rotary axes 1/2/3			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0, 0.0,0.0, 0.0, 0.0...	-	-	7/7

24620	**TRAFO5_ROT_SIGN_IS_PLUS_2**			C07	F2
-	Sign of rotary axis 1/2/3 for 5-axis transformation 2			BOOLEAN	NEW CONF
-					
-	3	TRUE, TRUE, TRUE,TRUE, TRUE, TRUE...	-	-	7/7

24630	**TRAFO5_NON_POLE_LIMIT_2**			C07	F2
degrees	Definition of pole range for 5-axis transformation 2			DOUBLE	NEW CONF
-					
-	-	2.0,2.0,2.0,2.0,2.0,2.0,2.0,2.0,2.0...	-	-	7/7

24640	**TRAFO5_POLE_LIMIT_2**			C07	F2
degrees	End angle toler. with interpol. through pole for 5-axis transf.			DOUBLE	NEW CONF
-					
-	-	2.0,2.0,2.0,2.0,2.0,2.0,2.0,2.0,2.0...	-	-	7/7

24642	**TRAFO5_POLE_TOL_2**			C07	-
degrees	End angle tolerance for pole interpolation			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0	-	7/7

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24650	TRAFO5_BASE_TOOL_2			C07	F2
mm	Vector of base tool on activation of 5-axis transformation 2			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24658	TRAFO5_JOINT_OFFSET_PART_2			C07	F2
mm	Vector of kinematic table offset			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24660	TRAFO5_JOINT_OFFSET_2			C07	F2
mm	Vector of the kinem.offset of the 2nd 5-axis transformation			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24661	TRAFO6_JOINT_OFFSET_2_3_2			C07	-
mm	Vector of kinematic offset			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24662	TRAFO5_TOOL_ROT_AX_OFFSET_2			C07	F2
mm	Offset swivel point of 2nd 5-axis transf. (swivelled lin.axis)			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24664	TRAFO5_NUTATOR_AX_ANGLE_2			C07	F2
degrees	Nutating head angle			DOUBLE	NEW CONF
-					
-	-	45.0,45.0,45.0,45.0, 45.0,45.0,45.0...	-89.	89.	7/7

24666	TRAFO5_NUTATOR_VIRT_ORIAX_2			C07	-
-	Virtual orientation axes			BOOLEAN	NEW CONF
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE, FALSE...	-	-	7/7

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24670	TRAFO5_AXIS1_2			C07	F2
-	Direction of 1st rotary axis			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24672	TRAFO5_AXIS2_2			C07	F2
-	Direction of 2nd rotary axis			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24673	TRAFO5_AXIS3_2			C07	-
-	Direction of third rotary axis			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24674	TRAFO5_BASE_ORIENT_2			C07	F2
-	Basic tool orientation			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24676	TRAFO6_BASE_ORIENT_NORMAL_2			C07	-
-	Normal tool vector			DOUBLE	NEW CONF
-					
-	3	0.0, 1.0 , 0.0,0.0, 1.0 , 0.0...	-	-	7/7

24680	TRAFO5_TOOL_VECTOR_2			C07	F2
-	Direction of orientation vector			BYTE	NEW CONF
-					
-	-	2,2,2,2,2,2,2,2,2,2,2,2,2,2,2	0	2	7/2

24682	TRAFO5_TCARR_NO_2			C07	-
-	TCARR number for the second 5-axis transformation			DWORD	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

24685	TRAFO5_ORIAX_ASSIGN_TAB_2			C07	F2
-	Orientation axis / channel axis assignment transformation 1			BYTE	NEW CONF
-					
-	3	0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0...	0	20	7/2

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24690	**TRAFO5_ROT_OFFSET_FROM_FR_2**			C01, C07	-
-	Offset of transformation rotary axes from WO.			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/2

24700	**TRAANG_ANGLE_1**			C07	M1
degrees	Angle between Cartesian axis and real (inclined) axis			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/7

24710	**TRAANG_BASE_TOOL_1**			C07	M1
mm	Vector of base tool for 1st TRAANG transformation			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24720	**TRAANG_PARALLEL_VELO_RES_1**			C07	M1
-	Velocity margin for 1st TRAANG transformation			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.0	1.0	7/7

24721	**TRAANG_PARALLEL_ACCEL_RES_1**			C07	M1
-	Acceleration margin of parallel axis for the 1st TRAANG transf.			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.0	1.0	7/7

24750	**TRAANG_ANGLE_2**			C07	M1
degrees	Angle between Cartesian axis and real (inclined) axis			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/7

24760	**TRAANG_BASE_TOOL_2**			C07	M1
mm	Vector of base tool for 2nd TRAANG transformation			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

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24770	TRAANG_PARALLEL_VELO_RES_2			C07	M1
-	Velocity margin for 2nd TRAANG transformation			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.0	1.0	7/7

24771	TRAANG_PARALLEL_ACCEL_RES_2			C07	M1
-	Acceler. margin of parallel axis for the 2nd TRAANG transform.			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.0	1.0	7/7

24800	TRACYL_ROT_AX_OFFSET_1			C07	M1
degrees	Offset of rotary axis for the 1st TRACYL transformation			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/7

24805	TRACYL_ROT_AX_FRAME_1			C07	-
-	Rotary axis offset TRACYL 1			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	2	7/7

24808	TRACYL_DEFAULT_MODE_1			C07	M1
-	TRACYL mode selection			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/7

24810	TRACYL_ROT_SIGN_IS_PLUS_1			C07	M1
-	Sign of rotary axis for 1st TRACYL transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/7

24820	TRACYL_BASE_TOOL_1			C07	M1
mm	Vector of base tool for 1st TRACYL transformation			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

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24850	TRACYL_ROT_AX_OFFSET_2			C07	M1
degrees	Offset of rotary axis for the 2nd TRACYL transformation			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/7

24855	TRACYL_ROT_AX_FRAME_2			C07	-
-	Rotary axis offset TRACYL 2			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	2	7/7

24858	TRACYL_DEFAULT_MODE_2			C07	M1
-	TRACYL mode selection			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/7

24860	TRACYL_ROT_SIGN_IS_PLUS_2			C07	M1
-	Sign of rotary axis for 2nd TRACYL transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/7

24870	TRACYL_BASE_TOOL_2			C07	M1
mm	Vector of base tool for 2nd TRACYL transformation			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24900	TRANSMIT_ROT_AX_OFFSET_1			C07	M1
degrees	Offset of rotary axis for the 1st TRANSMIT transformation			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/7

24905	TRANSMIT_ROT_AX_FRAME_1			C07	-
-	Rotary axis offset TRANSMIT 1			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	2	7/7

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24910	TRANSMIT_ROT_SIGN_IS_PLUS_1			C07	M1
-	Sign of rotary axis for 1st TRANSMIT transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

24911	TRANSMIT_POLE_SIDE_FIX_1			C07	M1
-	Restr. working range before/behind the pole, 1. TRANSMIT			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	0	2	7/7

24920	TRANSMIT_BASE_TOOL_1			C07	M1
mm	Vector of base tool for 1st TRANSMIT transformation			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24950	TRANSMIT_ROT_AX_OFFSET_2			C07	M1
degrees	Offset of rotary axis for the 2nd TRANSMIT transformation			DOUBLE	NEW CONF
-					
-	-	0.0,0.0,0.0,0.0,0.0,0 .0,0.0,0.0,0.0...	-	-	7/7

24955	TRANSMIT_ROT_AX_FRAME_2			C07	-
-	Rotary axis offset TRANSMIT 2			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	0	2	7/7

24960	TRANSMIT_ROT_SIGN_IS_PLUS_2			C07	M1
-	Sign of rotary axis for 2nd TRANSMIT transformation			BOOLEAN	NEW CONF
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

24961	TRANSMIT_POLE_SIDE_FIX_2			C07	M1
-	Restr. of working range before/behind the pole, 2. TRANSMIT			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0 ,0,0,0,0,0	0	2	7/7

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24970	TRANSMIT_BASE_TOOL_2			C07	M1
mm	Vector of base tool for 2nd TRANSMIT transformation			DOUBLE	NEW CONF
-					
-	3	0.0, 0.0 , 0.0,0.0, 0.0 , 0.0...	-	-	7/7

24995	TRACON_CHAIN_1			C07	M1
-	Transformation grouping			DWORD	NEW CONF
-					
-	4	0, 0, 0, 0,0, 0, 0, 0,0, 0, 0, 0...	0	8	7/7

24996	TRACON_CHAIN_2			C07	M1
-	Transformation grouping			DWORD	NEW CONF
-					
-	4	0, 0, 0 ,0,0, 0, 0, 0,0, 0, 0, 0...	0	8	7/7

24997	TRACON_CHAIN_3			C07	M1
-	Transformation grouping			DWORD	NEW CONF
-					
-	4	0, 0, 0 ,0,0, 0, 0, 0,0, 0, 0, 0...	0	8	7/7

24998	TRACON_CHAIN_4			C07	M1
-	Transformation grouping			DWORD	NEW CONF
-					
-	4	0, 0, 0 ,0,0, 0, 0, 0,0, 0, 0, 0...	0	8	7/7

2.4.5 Punching and nibbling

26000	PUNCHNIB_ASSIGN_FASTIN			C01, C09	N4
-	Hardware assignment for input byte for stroke control			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

26002	PUNCHNIB_ASSIGN_FASTOUT			C01, C09	N4
-	Hardware assignment for output byte for stroke control			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

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26004	NIBBLE_PUNCH_OUTMASK			C01, C09	N4
-	Mask for fast output bits			BYTE	POWER ON
-					
-	8	1, 0, 0, 0, 0, 0, 0, 0,0, 0, 0, 0, 0, 0, 0, 0...	-	-	7/2

26006	NIBBLE_PUNCH_INMASK			C01, C09	N4
-	Mask for fast input bits			BYTE	POWER ON
-					
-	8	1, 0, 0, 0, 0, 0, 0, 0,0, 0, 0, 0, 0, 0, 0, 0...	-	-	7/2

26008	NIBBLE_PUNCH_CODE			C09	N4
-	Definition of M functions			DWORD	POWER ON
-					
-	8	0,23,22, 25, 26, 0, 0, 0,0, 0, 0, 0, 0, 0, 0, 0...	-	-	7/2

26010	PUNCHNIB_AXIS_MASK			C09	N4
-	Definition of punching and nibbling axes			DWORD	POWER ON
-					
-	-	7,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

26012	PUNCHNIB_ACTIVATION			C09	N4
-	Activation of punching and nibbling functions			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

26014	PUNCH_PATH_SPLITTING			C09	N4
-	Activation of automatic path segmentation			DWORD	POWER ON
-					
-	-	2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2	-	-	7/2

26016	PUNCH_PARTITION_TYPE			C09	N4
-	Behavior of individual axes with automatic path segmentation			DWORD	POWER ON
-					
-	-	1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

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26018	NIBBLE_PRE_START_TIME			C09	N4
s	Delay time for nibbling/punching with G603			DOUBLE	POWER ON
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/2

26020	NIBBLE_SIGNAL_CHECK			C09	N4
-	Alarm on chattering punching signal			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

27100	ABSBLOCK_FUNCTION_MASK			N01	-
-	Parameterize the block display with absolute values			DWORD	POWER ON
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x1	7/2

27200	MMC_INFO_NO_UNIT			EXP, -	-
-	HMI info (without physical unit)			DOUBLE	POWER ON
-					
-	80	45., 2., 0., 1., 0., -1., 0., 1., 100., 1., 1., 0., 0., 0.,....	-	-	0/2

27201	MMC_INFO_NO_UNIT_STATUS			EXP, -	-
-	HMI status info (without physical unit)			BYTE	POWER ON
-					
-	80	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...	-	-	0/2

27202	MMC_INFO_POSN_LIN			EXP, -	-
mm	HMI info (linear positions)			DOUBLE	POWER ON
-					
-	50	0., 0., 1., 1., 0., 0., 100., 0., 0., 1000., 1., 1....	-	-	0/2

27203	MMC_INFO_POSN_LIN_STATUS			EXP, -	-
-	HMI status info (linear positions)			BYTE	POWER ON
-					
-	50	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...	-	-	0/2

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27204	**MMC_INFO_VELO_LIN**			EXP, -	-
mm/min	HMI info (linear velocities)			DOUBLE	POWER ON
-					
-	16	10., 10., 2000., 10000., 300., 1000., 1000., 10., 0.,0.,0.,0....	-	-	0/2

27205	**MMC_INFO_VELO_LIN_STATUS**			EXP, -	-
-	HMI status info (linear velocities)			BYTE	POWER ON
-					
-	16	1,1,1,1,1,1,1,1,0,0,0,0,0,0,0,0...	-	-	0/2

27206	**MMC_INFO_CUT_SPEED**			EXP, -	-
m/min	HMI info (cutting speed)			DOUBLE	POWER ON
-					
-	5	100.,0.,0.,0.,0.,100., 0.,0.,0.,0....	-	-	0/2

27207	**MMC_INFO_CUT_SPEED_STATUS**			EXP, -	-
-	HMI status info (cutting speed)			BYTE	POWER ON
-					
-	5	1,0,0,0,0,1,0,0,0,0,1,0,0,0,0...	-	-	0/2

27208	**MMC_INFO_REV_FEED**			EXP, -	-
mm/rev	HMI info (feed)			DOUBLE	POWER ON
-					
-	10	1.,0.100,1.,1.,0.,0.,0.,0.,0.,0....	-	-	0/2

27209	**MMC_INFO_REV_FEED_STATUS**			EXP, -	-
-	HMI status info (feed)			BYTE	POWER ON
-					
-	10	1,1,1,1,0,0,0,0,0,0,1,1,1,1,0,0,0,0,0,0...	-	-	0/2

27400	**OEM_CHAN_INFO**			A01, A11	-
-	OEM version information			STRING	POWER ON
-					
-	3	"", "", "", "", "", "", "", "", "", ""...	-	-	7/2

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27800	TECHNOLOGY_MODE			C09	A2
-	Mode of technology in channel			BYTE	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/2

27860	PROCESSTIMER_MODE			C09	K1
-	Activation of program runtime measurement			DWORD	RESET
-					
-	-	0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00...	0	0x0FF	7/2

27880	PART_COUNTER			C09	K1
-	Activation of workpiece counter			DWORD	RESET
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x0FFFF	7/2

27882	PART_COUNTER_MCODE			C09	K1
-	Workpiece counting with user-defined M command			BYTE	POWER ON
-					
-	3	2, 2, 2,2, 2, 2,2, 2, 2,2, 2, 2...	0	99	7/2

27900	REORG_LOG_LIMIT			EXP, C02	S7
-	Percentage of IPO buffer for enabling log file			BYTE	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	-	-	0/0

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2.4.6 Channel-specific memory settings

28000	**MM_REORG_LOG_FILE_MEM**			EXP, C02	S7
-	Memory space for REORG (DRAM)			DWORD	POWER ON
-					
-	-	50,50,50,50,50,50,50,50,50,50,50,50,50 ...	1	500	7/2
840d-2a2c	-	10,10,10,10,10,10,10,10,10,10	-	-	-/-
840d-4a1cg	-	10,10,10,10,10,10,10,10,10,10	-	-	-/-
840d-6a2c	-	10,10,10,10,10,10,10,10,10,10	-	-	-/-
840d-12a2c	-	10,10,10,10,10,10,10,10,10,10	-	-	-/-
840d-31a10c	-	10,10,10,10,10,10,10,10,10,10	-	-	-/-

28010	**MM_NUM_REORG_LUD_MODULES**			EXP, C02	S7
-	Number of blocks for local user variables in REORG (DRAM)			DWORD	POWER ON
-					
-	-	8,8,8,8,8,8,8,8,8,8,8,8,8,8,8	0	SLMAXNUMBEROF_USERMODULES	7/2

28020	**MM_NUM_LUD_NAMES_TOTAL**			C02	S7
-	Number of local user variables (DRAM)			DWORD	POWER ON
-					
-	-	400,400,400,400,400,400,400,400,400,400...	0	32000	7/2
840d-2a2c	-	200,200,200,200,200,200,200,200,200,200...	-	-	-/-
840d-4a1cg	-	200,200,200,200,200,200,200,200,200,200...	-	-	-/-
840d-6a2c	-	200,200,200,200,200,200,200,200,200,200...	-	-	-/-
840d-12a2c	-	200,200,200,200,200,200,200,200,200,200...	-	-	-/-
840d-31a10c	-	200,200,200,200,200,200,200,200,200,200...	-	-	-/-

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28040	MM_LUD_VALUES_MEM			C02	S7
-	Memory space for local user variables (DRAM)			DWORD	POWER ON
-					
-	-	50,50,50,50,50,50,50,50,50,50,50,50,50 ...	0	32000	7/2
840d-2a2c	-	25,25,25,25,25,25,25,25,25,25	-	-	-/-
840d-4a1cg	-	25,25,25,25,25,25,25,25,25,25	-	-	-/-
840d-6a2c	-	25,25,25,25,25,25,25,25,25,25	-	-	-/-
840d-12a2c	-	25,25,25,25,25,25,25,25,25,25	-	-	-/-
840d-31a10c	-	25,25,25,25,25,25,25,25,25,25	-	-	-/-

28050	MM_NUM_R_PARAM			C02	S7
-	Number of channel-specific R parameters (SRAM)			DWORD	POWER ON
-					
-	-	100,100,100,100,100,100,100,100,100,100...	0	32535	7/2

28060	MM_IPO_BUFFER_SIZE			C02	S7
-	Number of NC blocks in IPO buffer (DRAM)			DWORD	POWER ON
-					
-	-	10,10,10,10,10,10,10,10,10,10,10,10,10 ...	2	300	7/2

28070	MM_NUM_BLOCKS_IN_PREP			EXP, C02	S7
-	Number of blocks for block preparation (DRAM)			DWORD	POWER ON
-					
-	-	50,50,50,50,50,50,50,50,50,50,50,50,50 ...	20	500	7/2
840d-2a2c	-	38,38,38,38,38,38,38,38,38,38	-	-	-/-
840d-4a1cg	-	38,38,38,38,38,38,38,38,38,38	-	-	-/-
840d-6a2c	-	38,38,38,38,38,38,38,38,38,38	-	-	-/-
840d-12a2c	-	38,38,38,38,38,38,38,38,38,38	-	-	-/-
840d-31a10c	-	38,38,38,38,38,38,38,38,38,38	-	-	-/-

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28080	MM_NUM_USER_FRAMES			C11, C02	S7
-	Number of settable frames (SRAM)			DWORD	POWER ON
-					
-	-	5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5	5	100	7/2

28081	MM_NUM_BASE_FRAMES			C02	K2
-	Number of base frames (SRAM)			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	0	16	7/2

28082	MM_SYSTEM_FRAME_MASK			C02	K2
-	System frames (SRAM)			DWORD	POWER ON
-					
-	-	0x21,0x21,0x21,0x21,0x21,0x21,0x21...	0	0x000007FF	7/2

28083	MM_SYSTEM_DATAFRAME_MASK			C02	-
-	System frames (SRAM)			DWORD	POWER ON
-					
-	-	0x79F,0x79F,0x79F,0x79F,0x79F,0x79F...	0	0x000007FF	7/2

28085	MM_LINK_TOA_UNIT			C02, C09	FBW,S7
-	Assignment of a TO unit to a channel (SRAM)			DWORD	POWER ON
-					
-	-	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	1	10	7/2

28090	MM_NUM_CC_BLOCK_ELEMENTS			EXP, C02	S7
-	Number of block elements for compile cycles (DRAM)			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	130	7/1

28100	MM_NUM_CC_BLOCK_USER_MEM			EXP, C02	S7
-	Size of block memory for compile cycles (DRAM), in KB			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	64000	7/1

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28105	MM_NUM_CC_HEAP_MEM			EXP, C02	S7
-	Heap memory in kbytes for compile-cycle applications (DRAM)			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	64000	7/2

28150	MM_NUM_VDIVAR_ELEMENTS			C02	P3
-	Number of elements for writing PLC variables			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	32000	7/2

28160	MM_NUM_LINKVAR_ELEMENTS			C02	B3
-	Number of elements for writing NCU-link variables			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	32000	7/2

28180	MM_MAX_TRACE_DATAPOINTS			EXP, C02, C06	BA,S5,FBSY
-	Length of the trace data buffer			DWORD	POWER ON
NBUP					
-	-	100,100,100,100,100,100,100,100,100,...	0	20000	2/2

28200	MM_NUM_PROTECT_AREA_CHAN			C02, C06, C09	S7
-	Number of files for channel-specific protection zones (SRAM)			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	10	7/2

28210	MM_NUM_PROTECT_AREA_ACTIVE			C11, C02, C06, C09	S7
-	Number of simultaneously active protection zones in one channel			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	10	7/2

28212	MM_NUM_PROTECT_AREA_CONTOUR			C11, C02, C06, C09	-
-	Elements for active protection zones (DRAM)			DWORD	POWER ON
-					
-	-	30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30 ...	0	50	7/2

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28250	MM_NUM_SYNC_ELEMENTS			C02, -	S5,FBSY
-	Number of elements for expressions in synchronized actions			DWORD	POWER ON
-					
-	-	159,159,159,159,159,159,159,159,159,159...	0	32000	7/2

28251	MM_NUM_SAFE_SYNC_ELEMENTS			C02, -	S5,FBSI
-	Number of elements for expressions in Safety synchr. actions			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	32000	7/2

28252	MM_NUM_FCTDEF_ELEMENTS			C02	S5,FBSY
-	Number of FCTDEF elements			DWORD	POWER ON
-					
-	-	3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3	0	100	7/2

28254	MM_NUM_AC_PARAM			C02	FBSY
-	Dimension of $AC_PARAM.			DWORD	POWER ON
-					
-	-	50,50,50,50,50,50,50,50,50,50,50,50,50,50,50,50 ...	0	20000	7/2

28255	MM_BUFFERED_AC_PARAM			C02	FBSY
-	$AC_PARAM[] is stored in SRAM.			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/2

28256	MM_NUM_AC_MARKER			C02	FBSY
-	Dimension of $AC_MARKER			DWORD	POWER ON
-					
-	-	8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8	0	20000	7/2

28257	MM_BUFFERED_AC_MARKER			C02	FBSY
-	$AC_MARKER[] is stored in SRAM.			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	1	7/2

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28258	MM_NUM_AC_TIMER			C02	S5,FBSY
-	Number of time variables $AC_TIMER (DRAM)			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	10000	7/2

28260	NUM_AC_FIFO			C01	S5,FBSY
-	Number of FIFO variable for synchronized actions			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	10	7/2

28262	START_AC_FIFO			C01	S5,FBSY
-	FIFO variables store from R parameter			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	32535	7/2

28264	LEN_AC_FIFO			C01	S5,M5,FBSY
-	Length of FIFO variables AC_FIFO1-AC_FIFO10			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	32535	7/2

28266	MODE_AC_FIFO			C01	S5,FBSY
-	Mode of FIFO processing			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	-	7/2

28274	MM_NUM_AC_SYSTEM_PARAM			EXP, C02	FBSY
-	Number of $AC_SYSTEM_ PARAM for motion-synchronous actions			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	20000	7/2

28276	MM_NUM_AC_SYSTEM_MARKER			EXP, C02	FBSY
-	Number of $AC_SYSTEM_MARKER for motion-synchronous actions			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	20000	7/2

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28290	**MM_SHAPED_TOOLS_ENABLE**			C01, C08, C02	-
-	Enable tool radius compensation for contour tools			BOOLEAN	POWER ON
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/0

28300	**MM_PROTOC_USER_ACTIVE**			C02	D1,OEM
-	Activation of logging for a user			BOOLEAN	POWER ON
-					
-	10	TRUE, FALSE, FALSE, FALSE, FALSE, TRUE, TRUE, FALSE, FALSE...	-	-	1/1

28301	**MM_PROTOC_NUM_ETP_OEM_TYP**			C02	D1,OEM
-	Number of OEM event types ETP.			DWORD	POWER ON
-					
-	10	0, 0, 0, 0, 0, 0, 0, 0, 0, 0...	0	20	1/1

28302	**MM_PROTOC_NUM_ETP_STD_TYP**			C02	-
-	Number of standard event types ETP			DWORD	POWER ON
-					
-	10	28, 0, 0, 0, 0, 20, 20, 0, 0, 3...	0	51	1/1

28400	**MM_ABSBLOCK**			EXP, C02	S7
-	activate block display w. absolute values			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	0	512	7/2

28402	**MM_ABSBLOCK_BUFFER_CONF**			EXP, C02	S7
-	Setting of upload buffer size			DWORD	POWER ON
-					
-	2	2, 4,2, 4,2, 4,2, 4,2, 4,2, 4,2, 4...	0	32000	7/2

28450	**MM_TOOL_DATA_CHG_BUFF_SIZE**			-, C02, C06	-
-	Buffer for tool data changes (DRAM)			DWORD	POWER ON
-					
-	-	60,60,60,60,60,60,60,60,60,60,60,60,60,60,60...	0	2500	7/2

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28500	MM_PREP_TASK_STACK_SIZE			EXP, C02	S7
-	Stack size of preparation task (DRAM)			DWORD	POWER ON
-					
-	-	70,70,70,

28590	**MM_ORISON_BLOCKS**			C02	-
-	Setting for orientation smoothing			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	30	1/1

28600	**MM_NUM_WORKAREA_CS_GROUPS**			C02	-
-	Number of coordinate system-specific operating range limits			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	10	7/2

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2.5 Axis-specific machine data

Number	Identifier			Display filters	Reference
Unit	Name			Data type	Active
Attributes					
System	Dimension	Default value	Minimum value	Maximum value	Protection

2.5.1 Configuration

30100	CTRLOUT_SEGMENT_NR			EXP, A01	G2
-	Setpoint assignment: bus segment number			BYTE	POWER ON
-					
-	1	1	1	5	7/2

30110	CTRLOUT_MODULE_NR			A01, A11, -	G2
-	Setpoint assignment: module number			BYTE	POWER ON
-					
-	1	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18...	1	31	7/2

30120	CTRLOUT_NR			EXP, A01, -	G2
-	Setpoint assignment: Setpoint output on drive submodule/module			BYTE	POWER ON
-					
-	1	1	1	3	2/2

30130	CTRLOUT_TYPE			A01, A11	G2,S6
-	Output type of setpoint			BYTE	POWER ON
-					
-	1	0	0	3	7/2

30132	IS_VIRTUAL_AX			A01	M3
-	Axis is a virtual axis			BOOLEAN	POWER ON
CTEQ					
-	1	FALSE	-	-	7/2

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30134	IS_UNIPOLAR_OUTPUT			A01	G2
-	Setpoint output is unipolar			BYTE	POWER ON
-					
-	1	0	0	2	7/2

30200	NUM_ENCS			A01, A02, -	G2
-	Number of encoders			BYTE	POWER ON
-					
-	-	1	0	2	7/2

30210	ENC_SEGMENT_NR			EXP, A01, A02	G2
-	Actual value assignment: bus segment number.			BYTE	POWER ON
-					
-	2	1, 1	1	5	7/2

30220	ENC_MODULE_NR			A01, A02, A11	G2
-	Actual value assignment: Drive number/measuring circuit number			BYTE	POWER ON
-					
-	2	1, 1,2, 2,3, 3,4, 4,5, 5,6, 6,7, 7...	1	31	7/2

30230	ENC_INPUT_NR			A01, A02, A11, -	G2
-	Actual value assignm.: Input on drive module/meas. circuit board			BYTE	POWER ON
-					
-	2	1, 2	1	2	7/2

30240	ENC_TYPE			A01, A02, A11, -	G2,R1
-	Encoder type of actual value sensing (actual position value).			BYTE	POWER ON
-					
-	2	0, 0	0	5	7/2

30242	ENC_IS_INDEPENDENT			A02, A11, -	G2
-	Encoder is independent			BYTE	NEW CONF
-					
-	2	0, 0	0	3	7/2

30244	ENC_MEAS_TYPE			A01, A02, A11	-
-	Encoder measurement type			BYTE	POWER ON
-					
-	2	1, 1	0	1	7/2
840d-2a2c	-	-	-	-	0/0
840d-6a2c	-	-	-	-	0/0
840d-12a2c	-	-	-	-	0/0
840d-31a10c	-	-	-	-	0/0

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30250	ACT_POS_ABS			EXP, A02, A08	R1
-	Internal encoder position			DOUBLE	POWER ON
ODLD, -, -					
-	2	0.0, 0.0	-	-	7/2

30260	ABS_INC_RATIO			EXP, A01, A02	R1
-	Absolute encoder: Ratio of absolute to incremental resolution			DWORD	POWER ON
-					
-	2	4, 4	-	-	7/2

30270	ENC_ABS_BUFFERING			EXP, A01, A02	FBA,R1
-	Absolute encoder: Traversing range extension			BYTE	POWER ON
-					
-	2	0, 0	0	1	7/2

30300	IS_ROT_AX			A01, A06, A11, -	R2
-	Rotary axis / spindle			BOOLEAN	POWER ON
SCAL, CTEQ					
-	-	FALSE	-	-	7/2

30310	ROT_IS_MODULO			A01, A06, A11, -	R2
-	Modulo conversion for rotary axis / spindle			BOOLEAN	POWER ON
CTEQ					
-	-	FALSE	-	-	7/2

30320	DISPLAY_IS_MODULO			A01, A06, A11	R2
-	Modulo 360 degrees displayed for rotary axis or spindle.			BOOLEAN	POWER ON
CTEQ					
-	-	FALSE	-	-	7/2

30330	MODULO_RANGE			EXP, A01, -	R2
degrees	Size of modulo range.			DOUBLE	RESET
CTEQ					
-	-	360.0	1.0	360000000.0	7/2

30340	MODULO_RANGE_START			EXP, A01	R2
degrees	Modulo range start position			DOUBLE	RESET
CTEQ					
-	-	0.0	-	-	7/2

30350	SIMU_AX_VDI_OUTPUT			A01, A06	G2
-	Axis signals output for simulation axis			BOOLEAN	POWER ON
CTEQ					
-	-	FALSE	-	-	7/2

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30450	IS_CONCURRENT_POS_AX			EXP, A01	P2
-	Default for reset: neutral/channel axis			BOOLEAN	RESET
CTEQ					
-	-	FALSE	-	-	7/2

30455	MISC_FUNCTION_MASK			A06, A10	R2
-	Axis functions			DWORD	RESET
CTEQ					
-	-	0x00	0	0x80	7/2

30460	BASE_FUNCTION_MASK			A01	-
-	Axis functions			DWORD	POWER ON
CTEQ					
-	-	0x00	0	0xFF	7/2

30465	AXIS_LANG_SUB_MASK			N01	-
-	Substitution of NC language commands			DWORD	POWER ON
-					
-	-	0	0	3	7/2

30500	INDEX_AX_ASSIGN_POS_TAB			A01, A10	T1
-	Axis is an indexing axis			BYTE	RESET
-					
-	-	0	0	3	7/2

30501	INDEX_AX_NUMERATOR			A01, A10	T1
mm, degrees	Indexing axis equidistant positions numerator			DOUBLE	RESET
-					
-	-	0.0	-	-	7/2

30502	INDEX_AX_DENOMINATOR			A01, A10	T1
-	Indexing axis equidistant positions denominator			DWORD	RESET
-					
-	-	1	1	-	7/2

30503	INDEX_AX_OFFSET			A01, A10	T1
mm, degrees	Indexing axis with equidistant positions first index position			DOUBLE	RESET
-					
-	-	0.0	-	-	7/2

30505	HIRTH_IS_ACTIVE			A01, A10	T1
-	Axis is an indexing axis with Hirth tooth system			BOOLEAN	RESET
CTEQ					
-	-	FALSE	-	-	7/2

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30550	AXCONF_ASSIGN_MASTER_CHAN			A01, A06, A10	K5
-	Initial setting of channel for change of axis			BYTE	POWER ON
-					
-	-	0	0	10	7/2

30552	AUTO_GET_TYPE			EXP, A06, A10	S1,K5
-	Automatic GET for get axis			BYTE	POWER ON
-					
-	-	1	0	2	7/2

30554	AXCONF_ASSIGN_MASTER_NCU			A01, A06, A10	B3
-	Initial setting which NCU creates setpoints for the axis			BYTE	POWER ON
-					
-	-	0	0	16	7/2

30560	IS_LOCAL_LINK_AXIS			EXP, A01	B3
-	Axis is a local link axis			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

30600	FIX_POINT_POS			A03, A10	K1
mm, degrees	Fixed-value positions of axis with G75			DOUBLE	POWER ON
-					
-	2	0.0, 0.0	-	-	7/2

30800	WORKAREA_CHECK_TYPE			-	A2
-	Type of check of working area limitations.			BOOLEAN	NEW CONF
CTEQ					
-	-	FALSE	-	-	7/2

2.5.2 Encoder matching

31000	ENC_IS_LINEAR			A02, A11, -	G2
-	Linear scale			BOOLEAN	POWER ON
-					
-	2	FALSE, FALSE	-	-	7/2

31010	ENC_GRID_POINT_DIST			A02, A11, -	G2
mm	Division period for linear scales			DOUBLE	POWER ON
-					
-	2	0.01, 0.01	-	-	7/2

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31020	ENC_RESOL			A02, A11, -	G2
-	Encoder lines per revolution			DWORD	POWER ON
-					
-	2	2048, 2048	-	-	7/2

31025	ENC_PULSE_MULT			EXP, A01, A02	K4
-	Encoder multiplication (high-resolution)			DWORD	POWER ON
-					
-	2	2048, 2048	-	-	7/2

31030	LEADSCREW_PITCH			A02, A11, -	G2
mm	Pitch of leadscrew			DOUBLE	POWER ON
-					
-	-	10.0	-	-	7/2

31040	ENC_IS_DIRECT			A02, A11, -	G2
-	Direct measuring system (no compilation to load position)			BOOLEAN	POWER ON
-					
-	2	FALSE, FALSE	-	-	7/2

31044	ENC_IS_DIRECT2			A02, -	-
-	Encoder mounted on the additional gearbox			BOOLEAN	NEW CONF
-					
-	2	FALSE, FALSE	-	-	7/2

31050	DRIVE_AX_RATIO_DENOM			A02, A11, -	G2
-	Denominator load gearbox			DWORD	POWER ON
-					
-	6	1, 1, 1, 1, 1, 1	1	2147000000	7/2

31060	DRIVE_AX_RATIO_NUMERA			A02, A11, -	G2
-	Numerator load gearbox			DWORD	POWER ON
-					
-	6	1, 1, 1, 1, 1, 1	-2147000000	2147000000	7/2

31064	DRIVE_AX_RATIO2_DENOM			A02, -	-
-	Denominator additional gearbox			DWORD	NEW CONF
-					
-	-	1	1	2147000000	7/2

31066	DRIVE_AX_RATIO2_NUMERA			A02, -	-
-	Numerator additional gearbox			DWORD	NEW CONF
-					
-	-	1	-2147000000	2147000000	7/2

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31070	DRIVE_ENC_RATIO_DENOM			A02, A11, -	G2
-	Denominator measuring gearbox			DWORD	POWER ON
-					
-	2	1, 1	1	2147000000	7/2

31080	DRIVE_ENC_RATIO_NUMERA			A02, A11, -	G2
-	Numerator measuring gearbox			DWORD	POWER ON
-					
-	2	1, 1	1	2147000000	7/2

31090	JOG_INCR_WEIGHT			A01, A12	H1,G2
mm, degrees	Evaluation of an increment with INC/handwheel			DOUBLE	RESET
CTEQ					
-	2	0.001, 0.00254	-	-	7/2

31122	BERO_DELAY_TIME_PLUS			A02, A06	S1
s	BERO delay time Plus			DOUBLE	NEW CONF
-					
-	2	0.000110, 0.000110	-	-	7/2

31123	BERO_DELAY_TIME_MINUS			A02, A06	S1
s	BERO delay time minus			DOUBLE	NEW CONF
-					
-	2	0.000078, 0.000078	-	-	7/2

31200	SCALING_FACTOR_G70_G71			EXP, A01	G2
-	Factor for converting values while G70/G71 is active			DOUBLE	POWER ON
CTEQ					
-	-	25.4	1.e-9	-	7/2

31500	AXIS_NUMBER_FOR_MONITORING			A01	S6
-	Output setpoint of this axis for service purposes			DWORD	POWER ON
-					
-	1	0	0	31	7/2

31510	OFFSETVALUE_FOR_MONITORING			A01	S6
V	Offset voltage for service setpoint			DOUBLE	NEW CONF
-					
-	1	0.0	-10.0	10.0	7/2

31520	GAIN_FOR_MONITORING			A01	S6
-	Gain for service setpoint			DOUBLE	NEW CONF
-					
-	1	1.0	-100.0	100.0	7/2

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31600	**TRACE_VDI_AX**			EXP, N06	-
-	Trace-specification for axial VDI signals			BOOLEAN	POWER ON
NBUP					
-	-	FALSE	-	-	2/2

2.5.3 Closed-loop control

32000	**MAX_AX_VELO**			A11, A04	G2
mm/min, rev/min	maximum axis velocity			DOUBLE	NEW CONF
CTEQ					
-	-	10000.	1.e-9	-	7/2

32010	**JOG_VELO_RAPID**			A11, A04, -	H1
mm/min, rev/min	Rapid traverse in jog mode			DOUBLE	RESET
CTEQ					
-	-	10000.	-	-	7/2

32020	**JOG_VELO**			A11, A04, -	H1
mm/min, rev/min	Jog axis velocity			DOUBLE	RESET
CTEQ					
-	-	2000.	-	-	7/2

32040	**JOG_REV_VELO_RAPID**			A11, A04	H1
mm/rev	Revolutional feedrate in JOG with rapid traverse override			DOUBLE	RESET
CTEQ					
-	-	2.5	-	-	7/2

32050	**JOG_REV_VELO**			A11, A04	H1
mm/rev	Revolutional feedrate in JOG			DOUBLE	RESET
CTEQ					
-	-	0.5	-	-	7/2

32060	**POS_AX_VELO**			A12, A04	P2
mm/min, rev/min	Initial setting for positioning axis velocity			DOUBLE	RESET
CTEQ					
-	-	10000.	-	-	7/2

32070	**CORR_VELO**			A04	H1,K2,W4
%	Axis velocity for override			DOUBLE	RESET
CTEQ					
-	-	50.0	-	-	7/2

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32074	**FRAME_OR_CORRPOS_NOTALLOWED**			A01	H1,K2,W4
-	Frame or tool length compensation are not permissible			DWORD	POWER ON
CTEQ					
-	-	0	0	0xFFF	7/2

32080	**HANDWH_MAX_INCR_SIZE**			A05, A10	H1
mm, degrees	Limitation of selected increment			DOUBLE	RESET
CTEQ					
-	-	0.0	-	-	7/2

32082	**HANDWH_MAX_INCR_VELO_SIZE**			A05, A10, A04	H1
mm/min, rev/min	Limitation for velocity override			DOUBLE	RESET
CTEQ					
-	-	500.0	-	-	7/2

32084	**HANDWH_STOP_COND**			EXP, A10	H1
-	Effect of VDI signals on handwheel travel			DWORD	RESET
CTEQ					
-	-	0xFF	0	0x7FF	7/2

32090	**HANDWH_VELO_OVERLAY_FACTOR**			A10, A04	H1
-	Ratio of JOG velocity to handwheel velocity (DRF)			DOUBLE	RESET
CTEQ					
-	-	0.5	-	-	7/2

32100	**AX_MOTION_DIR**			A07, A03, A11, -	G2
-	Traversing direction (not control direction)			DWORD	POWER ON
-					
-	-	1	-1	1	7/2

32110	**ENC_FEEDBACK_POL**			A07, A02, A11	G2
-	Sign actual value (control direction)			DWORD	POWER ON
-					
-	2	1, 1	-1	1	7/2

32200	**POSCTRL_GAIN**			A07, A11	G2
1000/min	Servo gain factor			DOUBLE	NEW CONF
CTEQ					
-	6	16.66666667, 16.66666667, 16.66666667, 16.66666667, 16.66666667...	0	2000.	7/2

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32210	POSCTRL_INTEGR_TIME			A07	G2
s	Position controller integral time			DOUBLE	NEW CONF
-					
-	-	1.0	0	10000.0	7/2

32220	POSCTRL_INTEGR_ENABLE			A07	G2
-	Enable integral component position controller			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

32230	POSCTRL_CONFIG			A07	-
-	Configuration of the position controller structure			BYTE	POWER ON
-					
-	-	0	0	17	7/2

32250	RATED_OUTVAL			A01, A11	G2
%	Rated output voltage			DOUBLE	NEW CONF
CTEQ					
-	1	80.0	-	-	7/2

32260	RATED_VELO			A01, A11	G2
rev/min	Rated motor speed			DOUBLE	NEW CONF
CTEQ					
-	1	3000.0	-	-	7/2

32300	MAX_AX_ACCEL			A11, A04, -	B2
m/s², rev/s²	maximum axis acceleration			DOUBLE	NEW CONF
CTEQ					
-	5	1.0, 1.0, 1.0, 1.0, 1.0	1.0e-3	-	7/2

32301	JOG_MAX_ACCEL			A11, A04, -	-
m/s², rev/s²	Maximum axis acceleration in JOG mode			DOUBLE	NEW CONF
CTEQ					
-	-	0.0	-	-	0/0

32310	MAX_ACCEL_OVL_FACTOR			A04	B1
-	Overload factor for axial velocity steps			DOUBLE	NEW CONF
CTEQ					
-	5	1.2, 1.2, 1.2, 1.2, 1.2	-	-	3/3

32320	DYN_LIMIT_RESET_MASK			A05, A06, A10, A04	-
-	Reset behavior of dynamic response limitation.			DWORD	RESET
CTEQ					
-	-	0	0	0x01	7/2

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32400	**AX_JERK_ENABLE**			A07, A04, -	B2
-	Axial jerk limitation			BOOLEAN	NEW CONF
CTEQ					
-	-	FALSE	-	-	7/2

32402	**AX_JERK_MODE**			A07, A04	B2,G2,B3
-	Filter type for axial jerk limitation			BYTE	POWER ON
CTEQ					
-	-	1	1	3	7/2

32410	**AX_JERK_TIME**			A07, A04	B2
s	Time constant for axial jerk filter			DOUBLE	NEW CONF
-					
-	-	0.001	-	-	7/2

32412	**AX_JERK_FREQ**			A07, A04	P6
-	Blocking frequency of axial jerk filter			DOUBLE	NEW CONF
-					
-	-	10.0	-	-	7/2

32414	**AX_JERK_DAMP**			A07, A04	P6
-	Damping of axial jerk filter			DOUBLE	NEW CONF
-					
-	-	0.0	-	-	7/2

32420	**JOG_AND_POS_JERK_ENABLE**			A04	B2
-	Default setting of axis jerk limitation			BOOLEAN	RESET
CTEQ					
-	-	FALSE	-	-	7/2

32430	**JOG_AND_POS_MAX_JERK**			A04	B2
m/s³, rev/s³	Axial jerk			DOUBLE	RESET
CTEQ					
-	-	1000.0	1.e-9	-	7/2

32431	**MAX_AX_JERK**			A04	B1
m/s³, rev/s³	maximum axial jerk for path movement			DOUBLE	NEW CONF
-					
-	5	1.e6, 1.e6, 1.e6, 1.e6, 1.e6	1.e-9	-	3/3

32432	**PATH_TRANS_JERK_LIM**			A04	B1
m/s³, rev/s³	maximum axial jerk at block transition in continuous-path mode			DOUBLE	NEW CONF
CTEQ					
-	5	1.e6, 1.e6, 1.e6, 1.e6, 1.e6	-	-	3/3

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32433	SOFT_ACCEL_FACTOR			A04, -	B1
-	Scaling of acceleration limitation with SOFT			DOUBLE	NEW CONF
-					
-	5	1., 1., 1., 1., 1.	1e-9	-	3/3

32434	G00_ACCEL_FACTOR			A04, -	B1
-	Scaling of acceleration limitation with G00.			DOUBLE	NEW CONF
-					
-	-	1.	1e-9	-	3/3

32435	G00_JERK_FACTOR			A04	B1
-	Scaling of jerk limitation with G00.			DOUBLE	NEW CONF
-					
-	-	1.	1e-9	-	3/3

32436	JOG_MAX_JERK			A04	-
m/s³, rev/s³	Maximum axial jerk during JOG motion			DOUBLE	NEW CONF
CTEQ					
-	-	0.0	-	-	0/0

32440	LOOKAH_FREQUENCY			EXP, A04	B1
-	Smoothing frequency for Look Ahead			DOUBLE	NEW CONF
-					
-	-	10.	-	-	7/2

32450	BACKLASH			A09	K3
mm, degrees	Backlash			DOUBLE	NEW CONF
-					
-	2	0.0, 0.0	-	-	7/2

32452	BACKLASH_FACTOR			A09	K3
-	Evaluation factor for backlash			DOUBLE	NEW CONF
-					
-	6	1.0, 1.0, 1.0, 1.0, 1.0, 1.0	0.01	100.0	7/2

32460	TORQUE_OFFSET			A09	K3
%	Additional torque for electronic weight compensation			DOUBLE	NEW CONF
-					
-	1	0.0	-100.0	100.0	7/2

32490	FRICT_COMP_MODE			A09	K3
-	Type of friction compensation			BYTE	POWER ON
-					
-	1	1	0	2	7/2

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32500	FRICT_COMP_ENABLE			A09	K3
-	Friction compensation active			BOOLEAN	NEW CONF
-					
-	-	FALSE	-	-	7/2

32510	FRICT_COMP_ADAPT_ENABLE			EXP, A09	K3
-	Adaptation friction compensation active			BOOLEAN	NEW CONF
-					
-	1	FALSE	-	-	7/2

32520	FRICT_COMP_CONST_MAX			EXP, A09	K3
mm/min, rev/min	Maximum friction compensation value			DOUBLE	NEW CONF
-					
-	1	0.0	-	-	7/2

32530	FRICT_COMP_CONST_MIN			EXP, A09	K3
mm/min, rev/min	Minimum friction compensation value			DOUBLE	NEW CONF
-					
-	1	0.0	-	-	7/2

32540	FRICT_COMP_TIME			EXP, A09	K3
s	Friction compensation time constant			DOUBLE	NEW CONF
-					
-	1	0.015	-	-	7/2

32550	FRICT_COMP_ACCEL1			EXP, A09	K3
m/s², rev/s²	Adaptation acceleration value 1			DOUBLE	NEW CONF
-					
-	1	0.0	-	-	7/2

32560	FRICT_COMP_ACCEL2			EXP, A09	K3
m/s², rev/s²	Adaptation acceleration value 2			DOUBLE	NEW CONF
-					
-	1	0.0	-	-	7/2

32570	FRICT_COMP_ACCEL3			EXP, A09	K3
m/s², rev/s²	Adaptation acceleration value 3			DOUBLE	NEW CONF
-					
-	1	0.0	-	-	7/2

32580	FRICT_COMP_INC_FACTOR			A09	K3
%	Weighting factor of friction comp. value w/ short trav. movem.			DOUBLE	NEW CONF
-					
-	1	0.0	0	100.0	7/2

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32610	VELO_FFW_WEIGHT			A07, A09	K3
-	Feedforward control factor f. velocity/speed feedforward control			DOUBLE	NEW CONF
-					
-	6	1.0, 1.0, 1.0, 1.0, 1.0, 1.0	-	-	7/2

32620	FFW_MODE			A07, A09	K3
-	Feedforward control mode			BYTE	RESET
-					
-	-	1	0	4	7/2

32630	FFW_ACTIVATION_MODE			A07, A09	K3,PA1
-	Activate feedforward control from program			BYTE	RESET
CTEQ					
-	-	1	-	-	7/2

32640	STIFFNESS_CONTROL_ENABLE			A01, A07	K3,FBA
-	Dynamic stiffness control			BOOLEAN	NEW CONF
CTEQ					
-	1	FALSE	-	-	7/2

32642	STIFFNESS_CONTROL_CONFIG			A01, A07	K3,FBA
-	Dynamic stiffness control configuration (DSC)			BYTE	NEW CONF
CTEQ					
-	1	0	0	1	7/2

32644	STIFFNESS_DELAY_TIME			A01, A07	K3,FBA
s	dynamic stiffness control: Delay			DOUBLE	POWER ON
CTEQ					
-	1	0.0	-0.02	0.02	7/2

32650	AX_INERTIA			EXP, A07, A09	K3
kgm²	Inertia for torque feedforward control			DOUBLE	NEW CONF
-					
-	-	0.0	-	-	7/2

32652	AX_MASS			EXP, A07, A09	K3
kg	Axis mass for torque feedforward control			DOUBLE	NEW CONF
-					
-	-	0.0	-	-	7/2

32700	ENC_COMP_ENABLE			A09	K3
-	Encoder/spindle error compensation.			BOOLEAN	NEW CONF
-					
-	2	FALSE, FALSE	-	-	7/2

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32710	CEC_ENABLE			A09	K3
-	Enable of sag compensation			BOOLEAN	NEW CONF
-					
-	-	FALSE	-	-	7/2

32711	CEC_SCALING_SYSTEM_METRIC			A09	K3
-	Measuring system of sag compensation			BOOLEAN	NEW CONF
-					
-	-	TRUE	-	-	7/2

32720	CEC_MAX_SUM			A09	K3
mm, degrees	Maximum compensation value for sag compensation			DOUBLE	NEW CONF
-					
-	-	1.0	0	10.0	7/2

32730	CEC_MAX_VELO			EXP, A09, A04	K3
%	Change in velocity at 1			DOUBLE	NEW CONF
-					
-	-	10.0	0	100.0	7/2

32750	TEMP_COMP_TYPE			A09	K3,W1
-	Temperature compensation type			BYTE	POWER ON
CTEQ					
-	-	0	0	7	7/2

32760	COMP_ADD_VELO_FACTOR			EXP, A09, A04	K3
-	Excessive velocity due to compensation			DOUBLE	POWER ON
CTEQ					
-	-	0.01	0.	0.10	7/2

32800	EQUIV_CURRCTRL_TIME			EXP, A07, A09	K3,G2
s	Equiv. time const. current control loop for feedforward control			DOUBLE	NEW CONF
-					
-	6	0.0005, 0.0005, 0.0005, 0.0005, 0.0005, 0.0005	-	-	7/2

32810	EQUIV_SPEEDCTRL_TIME			A07, A09	K3,G2
s	Equiv. time constant speed control loop for feedforward control			DOUBLE	NEW CONF
-					
-	6	0.008, 0.008, 0.008, 0.008, 0.008, 0.008	-	-	7/2

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32900	DYN_MATCH_ENABLE			A07	G2
-	Dynamic response adaptation			BOOLEAN	NEW CONF
CTEQ					
-	-	FALSE	-	-	7/2

32910	DYN_MATCH_TIME			A07	G2
s	Time constant of dynamic response adaptation			DOUBLE	NEW CONF
-					
-	6	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	-	-	7/2

32920	AC_FILTER_TIME			A10	S5,FBSY
s	Smoothing filter time constant for adaptive control			DOUBLE	POWER ON
-					
-	-	0.0	-	-	7/2

32930	POSCTRL_OUT_FILTER_ENABLE			A07	G2
-	Activation of low-pass filter at position controller output			BOOLEAN	NEW CONF
CTEQ					
-	-	FALSE	-	-	7/2

32940	POSCTRL_OUT_FILTER_TIME			A07	G2
s	Time constant of low-pass filter at position controller output			DOUBLE	NEW CONF
-					
-	-	0.0	-	-	7/2

32950	POSCTRL_DAMPING			EXP, A07	G2
%	Damping of the speed control circuit.			DOUBLE	NEW CONF
-					
-	-	0.0	-	-	7/2

32990	POSCTRL_DESVAL_DELAY_INFO			EXP, A01, A07	B3
s	Actual setpoint position delay			DOUBLE	NEW CONF
READ					
-	3	0.0, 0.0, 0.0	-	-	7/0

33000	FIPO_TYPE			EXP, A07	G2
-	Fine interpolator type			BYTE	POWER ON
CTEQ					
-	-	2	1	3	7/2

33050	LUBRICATION_DIST			A03, A10	A2
mm, degrees	Traversing path for lubrication from PLC			DOUBLE	NEW CONF
-					
-	-	1.0e8	-	-	7/2

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33060	MAINTENANCE_DATA			A10	-
-	Configuration of maintenance data recording			DWORD	RESET
-					
-	-	1	-	-	7/2

33100	COMPRESS_POS_TOL			A10	K1,PGA
mm, degrees	Maximum deviation during compression			DOUBLE	NEW CONF
CTEQ					
-	-	0.1	1.e-9	-	7/7

2.5.4 Reference point approach

34000	REFP_CAM_IS_ACTIVE			A03, A11	R1
-	Axis with reference point cam			BOOLEAN	RESET
-					
-	-	TRUE	-	-	7/2

34010	REFP_CAM_DIR_IS_MINUS			A03, A11	R1
-	Approach reference point in minus direction			BOOLEAN	RESET
-					
-	-	FALSE	-	-	7/2

34020	REFP_VELO_SEARCH_CAM			A03, A11, A04	R1
mm/min, rev/min	Reference point approach velocity			DOUBLE	RESET
-					
-	-	5000.00	-	-	7/2

34030	REFP_MAX_CAM_DIST			A03, A11	R1
mm, degrees	Maximum distance to reference cam			DOUBLE	RESET
-					
-	-	10000.0	-	-	7/2

34040	REFP_VELO_SEARCH_MARKER			A03, A11, A04	R1
mm/min, rev/min	Creep velocity			DOUBLE	RESET
-					
-	2	300.00, 300.00	-	-	7/2

34050	REFP_SEARCH_MARKER_REVERSE			A03, A11	R1
-	Direction reversal to reference cam			BOOLEAN	RESET
-					
-	2	FALSE, FALSE	-	-	7/2

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34060	REFP_MAX_MARKER_DIST			A03, A11	R1
mm, degrees	maximum distance to reference mark			DOUBLE	RESET
-					
-	2	20.0, 20.0	-	-	7/2

34070	REFP_VELO_POS			A03, A11, A04	R1
mm/min, rev/min	Reference point positioning velocity			DOUBLE	RESET
-					
-	-	10000.00	-	-	7/2

34080	REFP_MOVE_DIST			A03, A11	R1
mm, degrees	Reference point distance			DOUBLE	NEW CONF
-					
-	2	-2.0, -2.0	-1e15	1e15	7/2

34090	REFP_MOVE_DIST_CORR			A03, A02, A08, A11	R1
mm, degrees	Reference point offset/absolute offset			DOUBLE	NEW CONF
-, -					
-	2	0.0, 0.0	-1e12	1e12	7/2

34092	REFP_CAM_SHIFT			A03, A11	R1
mm, degrees	electronic cam offset for incremental measuring systems			DOUBLE	RESET
-					
-	2	0.0, 0.0	-	-	7/2

34093	REFP_CAM_MARKER_DIST			A03, A11	R1
mm, degrees	Reference cam/reference mark distance			DOUBLE	POWER ON
-, READ					
-	2	0.0, 0.0	-	-	7/2

34100	REFP_SET_POS			A03, A11	R1
mm, degrees	Reference point value/target point for distance-coded system			DOUBLE	RESET
-					
-	4	0., 0., 0., 0.	-45000000	45000000	7/2

34102	REFP_SYNC_ENCS			A03, A02	R1
-	Calibration of measuring systems			BYTE	RESET
-					
-	-	0	0	1	7/2

34104	REFP_PERMITTED_IN_FOLLOWUP			A03, A02	-
-	Enable referencing in follow-up mode			BOOLEAN	RESET
-					
-	-	FALSE	-	-	7/2

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34110	REFP_CYCLE_NR			A03	R1
-	Sequence of axes in channel-specific referencing			DWORD	POWER ON
-					
-	-	1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,17,18...	-1	31	7/2

34120	REFP_BERO_LOW_ACTIVE			A02	M5
-	BERO polarity change			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

34200	ENC_REFP_MODE			A03, A02	R1
-	Referencing mode			BYTE	POWER ON
-					
-	2	1, 1	0	8	7/2

34210	ENC_REFP_STATE			A07, A03, A02	R1
-	Adjustment status of absolute encoder			BYTE	SOFORT
-					
-	2	0, 0	0	2	7/4

34220	ENC_ABS_TURNS_MODULO			A03, A02	R2
-	Modulo range for rotary absolute encoder			DWORD	POWER ON
-					
-	2	4096, 4096	1	100000	7/2

34230	ENC_SERIAL_NUMBER			A02	R1
-	Encoder serial number			DWORD	POWER ON
-					
-	2	0, 0	-	-	7/2

34232	EVERY_ENC_SERIAL_NUMBER			A02	R1
-	Range of encoder serial number			BOOLEAN	POWER ON
-					
-	2	TRUE, TRUE	-	-	7/2

34300	ENC_REFP_MARKER_DIST			A03, A02	R1
mm, degrees	Basic distance of reference marks of distance-coded encoders.			DOUBLE	POWER ON
-					
-	2	10.0, 10.0	-	-	7/2

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34310	ENC_MARKER_INC			A03, A02	R1
mm, degrees	Interval between two reference marks for distance-coded scales			DOUBLE	RESET
-					
-	2	0.02, 0.02	-	-	7/2

34320	ENC_INVERS			A03, A02	G2,R1
-	Length measuring system inverse to axis movement.			BOOLEAN	RESET
-					
-	2	FALSE, FALSE	-	-	7/2

34330	REFP_STOP_AT_ABS_MARKER			A03	R1
-	Distance-coded linear measuring system without target point			BOOLEAN	RESET
-					
-	2	TRUE, TRUE	-	-	7/2

34990	ENC_ACTVAL_SMOOTH_TIME			A02	V1
s	Smoothing time constant for actual values.			DOUBLE	RESET
-					
-	2	0.0, 0.0	0.0	0.5	7/2

2.5.5 Spindles

35000	SPIND_ASSIGN_TO_MACHAX			A01, A06, A11	S1
-	Assignment of spindle to machine axis			BYTE	POWER ON
-					
-	-	0	0	20	7/2

35010	GEAR_STEP_CHANGE_ENABLE			A06, A11	S1
-	Parameterize gear stage change			DWORD	RESET
CTEQ					
-	-	0x00	0	0x2B	7/2

35012	GEAR_STEP_CHANGE_POSITION			A06, A11	S1
mm, degrees	Gear stage change position			DOUBLE	NEW CONF
CTEQ					
-	6	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	-	-	7/2

35014	GEAR_STEP_USED_IN_AXISMODE			A01, A06, A11	-
-	Gear stage for axis mode with M70			DWORD	NEW CONF
CTEQ					
-	-	0	0	5	7/2

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35020	SPIND_DEFAULT_MODE			A06, A10	S1
-	Initial spindle setting			BYTE	RESET
CTEQ					
-	-	0	0	3	7/2

35030	SPIND_DEFAULT_ACT_MASK			A06, A10	S1
-	Time at which initial spindle setting is effective			BYTE	RESET
CTEQ					
-	-	0x00	0	0x03	7/2

35032	SPIND_FUNC_RESET_MODE			A06, A10	W4
-	Reset response of individual spindle functions			DWORD	POWER ON
CTEQ					
-	-	0x00	0	0x01	7/2

35035	SPIND_FUNCTION_MASK			A06, A10	S1
-	Spindle functions			DWORD	RESET
CTEQ					
-	-	0x510	-	-	7/2

35040	SPIND_ACTIVE_AFTER_RESET			A06, A10	S1
-	Own spindle RESET			BYTE	POWER ON
CTEQ					
-	-	0	0	2	7/2

35090	NUM_GEAR_STEPS			A06, A10	S1
-	Number of gear stages			DWORD	RESET
-					
-	-	MAXNUM_GEAR_ STEPS	1	5	2/2

35092	NUM_GEAR_STEPS2			A06, A10	S1
-	Number of gear stages of 2nd gear stage data set			DWORD	RESET
-					
-	-	MAXNUM_GEAR_ STEPS	1	5	2/2

35100	SPIND_VELO_LIMIT			A06, A11, A04	S1
rev/min	Maximum spindle speed			DOUBLE	POWER ON
CTEQ					
-	-	10000.0	1.0e-3	-	7/2

35110	GEAR_STEP_MAX_VELO			A06, A11, A04	S1
rev/min	Maximum speed for gear stage change			DOUBLE	NEW CONF
CTEQ					
-	6	500., 500., 1000., 2000., 4000., 8000.	-	-	7/2

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35112	GEAR_STEP_MAX_VELO2			A06, A11, A04	S1
rev/min	2nd data set: Maximum speed for gear stage change			DOUBLE	NEW CONF
CTEQ					
-	6	500., 500., 1000., 2000., 4000., 8000.	0	-	2/2

35120	GEAR_STEP_MIN_VELO			A06, A11, A04	S1
rev/min	Minimum speed for gear stage change			DOUBLE	NEW CONF
CTEQ					
-	6	50., 50., 400., 800., 1500., 3000.	-	-	7/2

35122	GEAR_STEP_MIN_VELO2			A06, A11, A04	S1
rev/min	2nd data set: Minimum speed for gear stage change			DOUBLE	NEW CONF
CTEQ					
-	6	50., 50., 400., 800., 1500., 3000.	0	-	2/2

35130	GEAR_STEP_MAX_VELO_LIMIT			A06, A11, A04	S1
rev/min	Maximum speed of gear stage			DOUBLE	NEW CONF
CTEQ					
-	6	500., 500., 1000., 2000., 4000., 8000.	1.0e-3	-	7/2

35135	GEAR_STEP_PC_MAX_VELO_LIMIT			A06, A11, A04	S1
rev/min	Maximum speed of the gear stage with position control			DOUBLE	NEW CONF
CTEQ					
-	6	0., 0., 0., 0., 0., 0.	0	-	7/2

35140	GEAR_STEP_MIN_VELO_LIMIT			A06, A11, A04	S1
rev/min	Minimum speed of gear stage			DOUBLE	NEW CONF
CTEQ					
-	6	5., 5., 10., 20., 40., 80.	-	-	7/2

35150	SPIND_DES_VELO_TOL			A03, A05, A06, A10, A04	S1
-	Spindle speed tolerance			DOUBLE	RESET
-					
-	-	0.1	0.0	1.0	7/2

35160	SPIND_EXTERN_VELO_LIMIT			A06, A04	S1
rev/min	Spindle speed limitation from PLC			DOUBLE	NEW CONF
CTEQ					
-	-	1000.0	1.0e-3	-	7/2

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35200	GEAR_STEP_SPEEDCTRL_ACCEL			A06, A11, A04, -	S1
rev/s²	Acceleration in speed control mode			DOUBLE	NEW CONF
CTEQ					
-	6	30.0, 30.0, 25.0, 20.0, 15.0, 10.0	1.0e-3	-	7/2

35210	GEAR_STEP_POSCTRL_ACCEL			A06, A11, A04, -	S1
rev/s²	Acceleration in position control mode			DOUBLE	NEW CONF
CTEQ					
-	6	30.0, 30.0, 25.0, 20.0, 15.0, 10.0	1.0e-3	-	7/2

35212	GEAR_STEP_POSCTRL_ACCEL2			A06, A11, A04, -	S1
rev/s²	2nd data set: Acceleration in position control mode			DOUBLE	NEW CONF
CTEQ					
-	6	30.0, 30.0, 25.0, 20.0, 15.0, 10.0	1.0e-3	-	2/2

35220	ACCEL_REDUCTION_SPEED_POINT			A06, A04	S1,S6,B2
-	Speed for reduced acceleration			DOUBLE	RESET
-					
-	-	1.0	0.0	1.0	7/2

35230	ACCEL_REDUCTION_FACTOR			A06, A04	S1,S6,B2
-	Reduced acceleration			DOUBLE	RESET
CTEQ					
-	-	0.0	0.0	0.95	7/2

35240	ACCEL_TYPE_DRIVE			A04	S6
-	Acceleration curve DRIVE for axes ON/OFF			BOOLEAN	RESET
CTEQ					
-	-	FALSE	-	-	7/2

35242	ACCEL_REDUCTION_TYPE			A04	S6
-	Type of acceleration reduction			BYTE	RESET
CTEQ					
-	-	1	0	2	7/2

35300	SPIND_POSCTRL_VELO			A06, A04	S1
rev/min	Position control activation speed			DOUBLE	NEW CONF
CTEQ					
-	6	500.0, 500.0, 500.0, 500.0, 500.0, 500.0	-	-	7/2

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35310	SPIND_POSIT_DELAY_TIME			A06, A04	S1
s	Positioning delay time			DOUBLE	NEW CONF
CTEQ					
-	6	0.0, 0.05, 0.1, 0.2, 0.4, 0.8	-	-	7/2

35350	SPIND_POSITIONING_DIR			A06	S1
-	Direction of rotation when positioning			BYTE	RESET
CTEQ					
-	-	3	3	4	7/2

35400	SPIND_OSCILL_DES_VELO			A06, A04	S1
rev/min	Oscillation speed			DOUBLE	NEW CONF
CTEQ					
-	-	500.0	-	-	7/2

35410	SPIND_OSCILL_ACCEL			A06, A04, -	S1
rev/s²	Acceleration during oscillation			DOUBLE	NEW CONF
CTEQ					
-	-	16.0	1.0e-3	-	7/2

35430	SPIND_OSCILL_START_DIR			A06	S1
-	Start direction during oscillation			BYTE	RESET
CTEQ					
-	-	0	0	4	7/2

35440	SPIND_OSCILL_TIME_CW			A06	S1
s	Oscillation time for M3 direction			DOUBLE	NEW CONF
CTEQ					
-	-	1.0	-	-	7/2

35450	SPIND_OSCILL_TIME_CCW			A06	S1
s	Oscillation time for M4 direction			DOUBLE	NEW CONF
CTEQ					
-	-	0.5	-	-	7/2

35500	SPIND_ON_SPEED_AT_IPO_START			A03, A06, A10	S1
-	Feedrate enable for spindle in the set range			BYTE	RESET
CTEQ					
-	-	1	0	2	7/2

35510	SPIND_STOPPED_AT_IPO_START			A03, A06, A10	S1
-	Feedrate enable for spindle stopped			BOOLEAN	RESET
CTEQ					
-	-	FALSE	-	-	7/2

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35550	DRILL_VELO_LIMIT			A06, A11, A04	-
rev/min	Maximum speeds for tapping			DOUBLE	NEW CONF
CTEQ					
-	6	10000., 10000., 10000., 10000., 10000., 10000.	1	-	7/2

35590	PARAMSET_CHANGE_ENABLE			EXP, A05	A2
-	Parameter set can be changed			BYTE	POWER ON
CTEQ					
-	-	0	0	2	7/2

2.5.6 Monitoring functions

36000	STOP_LIMIT_COARSE			A05	B1
mm, degrees	Exact stop coarse			DOUBLE	NEW CONF
-					
-	-	0.04	-	-	7/2

36010	STOP_LIMIT_FINE			A05	B1
mm, degrees	Exact stop fine			DOUBLE	NEW CONF
-					
-	-	0.01	-	-	7/2

36012	STOP_LIMIT_FACTOR			A05	B1
-	Factor for exact stop coarse/fine and standstill			DOUBLE	NEW CONF
-					
-	6	1.0, 1.0, 1.0, 1.0, 1.0, 1.0	0.001	1000.0	7/2

36020	POSITIONING_TIME			A05	B1,A3
s	Delay time exact stop fine			DOUBLE	NEW CONF
-					
-	-	1.0	-	-	7/2

36030	STANDSTILL_POS_TOL			A05	A3
mm, degrees	Standstill tolerance			DOUBLE	NEW CONF
-					
-	-	0.2	-	-	7/2

36040	STANDSTILL_DELAY_TIME			A05	A3
s	Delay time for standstill monitoring			DOUBLE	NEW CONF
-					
-	-	0.4	-	-	7/2

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36042	FOC_STANDSTILL_DELAY_TIME			A05	F1
s	Delay time for standstill monit. w/ active torque or force lim.			DOUBLE	NEW CONF
-					
-	-	0.4	-	-	7/2

36050	CLAMP_POS_TOL			A05	A3
mm, degrees	Clamping tolerance			DOUBLE	NEW CONF
-					
-	-	0.5	-	-	7/2

36052	STOP_ON_CLAMPING			A10	-
-	Special functions with clamped axis			BYTE	NEW CONF
CTEQ					
-	-	0	0	0x07	2/1

36060	STANDSTILL_VELO_TOL			A05, A04	A2
mm/min, rev/min	Threshold velocity/speed 'Axis/spindle in stop'			DOUBLE	NEW CONF
-					
-	-	5.00	-	-	7/2

36100	POS_LIMIT_MINUS			A03, A05, A11, -	A3
mm, degrees	1st software limit switch minus			DOUBLE	NEW CONF
CTEQ					
-	-	-1.0e8	-	-	7/2

36110	POS_LIMIT_PLUS			A03, A05, A11, -	A3
mm, degrees	1st software limit switch plus			DOUBLE	NEW CONF
CTEQ					
-	-	1.0e8	-	-	7/2

36120	POS_LIMIT_MINUS2			A03, A05, -	A3
mm, degrees	2nd software limit switch minus			DOUBLE	NEW CONF
CTEQ					
-	-	-1.0e8	-	-	7/2

36130	POS_LIMIT_PLUS2			A03, A05, -	A3
mm, degrees	2nd software limit switch plus			DOUBLE	NEW CONF
CTEQ					
-	-	1.0e8	-	-	7/2

36200	AX_VELO_LIMIT			A05, A11, A04	A3,G2
mm/min, rev/min	Threshold value for velocity monitoring			DOUBLE	NEW CONF
CTEQ					
-	6	11500., 11500., 11500., 11500., 11500., 11500.	-	-	7/2

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36210	CTRLOUT_LIMIT			EXP, A05	G2
%	Maximum speed setpoint			DOUBLE	NEW CONF
CTEQ					
-	1	110.0	0	200	7/2

36220	CTRLOUT_LIMIT_TIME			EXP, A05	A3
s	Delay time for speed setpoint monitoring			DOUBLE	NEW CONF
-					
-	1	0.0	-	-	7/2

36300	ENC_FREQ_LIMIT			EXP, A02, A05, A06	A3
-	Encoder limit frequency			DOUBLE	POWER ON
-					
-	2	3.0e5, 3.0e5	-	-	7/2

36302	ENC_FREQ_LIMIT_LOW			EXP, A02, A05, A06	A3
%	Encoder limit frequency for new encoder synchronization.			DOUBLE	NEW CONF
-					
-	2	99.9, 99.9	0	100	7/2

36310	ENC_ZERO_MONITORING			EXP, A02, A05	A3
-	Zero mark monitoring			DWORD	NEW CONF
-					
-	2	0, 0	-	-	7/2

36400	CONTOUR_TOL			A05, A11	A3
mm, degrees	Tolerance band for contour monitoring			DOUBLE	NEW CONF
-					
-	-	1.0	-	-	7/2

36500	ENC_CHANGE_TOL			A02, A05	G2
mm, degrees	Tolerance at actual position value change.			DOUBLE	NEW CONF
-					
-	-	0.1	-	-	7/2

36510	ENC_DIFF_TOL			A02, A05	G2
mm, degrees	Tolerance of measuring system synchronization			DOUBLE	NEW CONF
-					
-	-	0.0	-	-	7/2

36520	DES_VELO_LIMIT			A02, A05	DA
%	Threshold for setpoint velocity monitoring			DOUBLE	NEW CONF
-					
-	-	125.0	-	-	7/2

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36600	BRAKE_MODE_CHOICE			EXP, A05	A3
-	Deceleration response on hardware limit switch			BYTE	POWER ON
CTEQ					
-	-	1	0	1	7/2

36610	AX_EMERGENCY_STOP_TIME			A05, -	A3
s	Maximum time for braking ramp in case of error.			DOUBLE	NEW CONF
-					
-	-	0.05	-	-	7/2

36620	SERVO_DISABLE_DELAY_TIME			A05, -	A2
s	Cutout delay servo enable			DOUBLE	NEW CONF
-					
-	-	0.1	-	-	7/2

36690	AXIS_DIAGNOSIS			EXP, A08	-
-	Internal data for test purposes			DWORD	POWER ON
NBUP					
-	-	0	-	-	0/0

36700	DRIFT_ENABLE			EXP, A07, A09	K3
-	Automatic drift compensation			BOOLEAN	NEW CONF
-					
-	-	FALSE	-	-	1/1

36710	DRIFT_LIMIT			EXP, A07, A09	K3
%	Drift limit value for automatic drift compensation			DOUBLE	NEW CONF
-					
-	1	0.0	0	1.e9	1/1

36720	DRIFT_VALUE			EXP, A07, A09	K3
%	Basic drift value			DOUBLE	NEW CONF
-					
-	1	0.0	-	-	1/1

36730	DRIVE_SIGNAL_TRACKING			A10	S5
-	Acquisition of additional drive actual values			BYTE	POWER ON
-					
-	-	0	0	4	7/2

36750	AA_OFF_MODE			A10	FBSY
-	Effect of value assignment for axial override of synchr. action.			BYTE	POWER ON
CTEQ					
-	-	0	0	7	7/2

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2.5.7 Safety Integrated

36901	SAFE_FUNCTION_ENABLE			A05, -	FBSI
-	Enable safety functions			DWORD	POWER ON
-					
-	-	0	0	0xFFFB	7/2

36902	SAFE_IS_ROT_AX			A01, A05, A06, -	FBSI
-	Rotary axis			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

36903	SAFE_CAM_ENABLE			A05, -	-
-	Function enable safe cams			DWORD	POWER ON
-					
-	-	0	0	0x3FFFFFFF	7/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

36905	SAFE_MODULO_RANGE			A02, -	FBSI
degrees	Modulo value Safe cams			DOUBLE	POWER ON
-					
-	-	0.0	0.0	737280.0	7/2

36906	SAFE_CTRLOUT_MODULE_NR			A01, A05, -	-
-	SI drive assignment			BYTE	POWER ON
-					
-	-	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18...	1	31	7/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

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36907	**SAFE_DRIVE_PS_ADDRESS**			A01, A05, -	-
-	PROFIsafe address of the drive			DWORD	POWER ON
READ					
-	-	0	-	-	7/0
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

36910	**SAFE_ENC_SEGMENT_NR**			EXP, A01, A02, A05, -	FBSI
-	Actual value assignment: type of drive			BYTE	POWER ON
-					
-	-	5	5	5	0/0
840d-2a2c	-	1	1	1	-1/-
840d-4a1cg	-	1	1	1	-1/-
840d-6a2c	-	1	1	1	-1/-
840d-12a2c	-	1	1	1	-1/-
840d-31a10c	-	1	1	1	-1/-

36911	**SAFE_ENC_MODULE_NR**			A01, A02, A05, -	FBSI
-	Actual value assignment: drive number/measurement circuit number			BYTE	POWER ON
-					
-	-	1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,1 7,18...	1	31	7/2

36912	**SAFE_ENC_INPUT_NR**			A01, A02, A05, -	FBSI
-	Actual value assignm.: Input on drive module/meas. circuit board			BYTE	POWER ON
-					
-	-	1	1	3	7/2

36914	**SAFE_SINGLE_ENC**			A01, A02, A05, -	-
-	SI single-encoder system			BOOLEAN	POWER ON
-					
-	-	TRUE	-	-	7/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

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36915	SAFE_ENC_TYPE			A01, A02, A05, -	FBSI
-	Encoder type			BYTE	POWER ON
-					
-	-	0	0	4	7/2

36916	SAFE_ENC_IS_LINEAR			A02, A05, -	FBSI
-	Linear scale			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

36917	SAFE_ENC_GRID_POINT_DIST			A02, A05, -	FBSI
mm	Scale division for linear scale			DOUBLE	POWER ON
-					
-	-	0.01	0.00001	8	7/2

36918	SAFE_ENC_RESOL			A02, A05, -	FBSI
-	Encoder lines per revolution			DWORD	POWER ON
-					
-	-	2048	1	100000	7/2

36919	SAFE_ENC_PULSE_SHIFT			A02, A05, -	-
-	Shift factor of encoder multiplication			BYTE	POWER ON
-					
-	-	11	2	18	7/2
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

36920	SAFE_ENC_GEAR_PITCH			A02, A05, -	FBSI
mm	Lead screw pitch			DOUBLE	POWER ON
-					
-	-	10.0	0.1	10000.	7/2

36921	SAFE_ENC_GEAR_DENOM			A02, A05, -	FBSI
-	Denominator of gearbox encoder/load			DWORD	POWER ON
-					
-	8	1, 1, 1, 1, 1, 1, 1, 1	1	2147000000	7/2

36922	SAFE_ENC_GEAR_NUMERA			A02, A05, -	FBSI
-	Numerator of gearbox encoder/load			DWORD	POWER ON
-					
-	8	1, 1, 1, 1, 1, 1, 1, 1	1	2147000000	7/2

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36923	**SAFE_INFO_ENC_RESOL**			A02, A05, -	-
mm, degrees	Safe encoder resolution			DOUBLE	POWER ON
READ					
-	8	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	-	-	7/0
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

36925	**SAFE_ENC_POLARITY**			A02, A05, -	FBSI
-	Direction reversal of actual value			DWORD	POWER ON
-					
-	-	1	-1	1	7/2

36926	**SAFE_ENC_FREQ_LIMIT**			A02, A05, -	FBSI
-	Encoder frequency limit for safe operation			DWORD	POWER ON
-					
-	-	300000	300000	420000	7/2

36927	**SAFE_ENC_MOD_TYPE**			A02, A05, -	-
-	Encoder evaluation type			BYTE	POWER ON
READ					
-	-	0	-	-	7/0
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

36928	**SAFE_ENC_IDENT**			A02, A05, -	-
-	Encoder identification			DWORD	POWER ON
READ					
-	3	0, 0, 0	-	-	7/0
840d-2a2c	-	-	-	-	-1/-
840d-4a1cg	-	-	-	-	-1/-
840d-6a2c	-	-	-	-	-1/-
840d-12a2c	-	-	-	-	-1/-
840d-31a10c	-	-	-	-	-1/-

36930	**SAFE_STANDSTILL_TOL**			A05, -	FBSI
mm, degrees	Standstill tolerance			DOUBLE	POWER ON
-					
-	-	1.	0.	100.	7/2

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36931	SAFE_VELO_LIMIT			A05, A04, -	FBSI
mm/min, rev/min	Limit value for safe velocity			DOUBLE	POWER ON
-					
-	4	2000., 2000., 2000., 2000.	-	-	7/2

36932	SAFE_VELO_OVR_FACTOR			A05, -	FBSI
%	SG offset values			DOUBLE	POWER ON
-					
-	16	100.0, 100.0, 100.0, 100.0, 100.0, 100.0, 100.0, 100.0, 100.0...	1.0	100.0	7/2

36933	SAFE_DES_VELO_LIMIT			A05, A04, -	FBSI
%	SG setpoint speed limit			DOUBLE	RESET
-					
-	-	0.0	0	100	7/2

36934	SAFE_POS_LIMIT_PLUS			A03, A05, -	FBSI
mm, degrees	Upper limit of safe end position			DOUBLE	POWER ON
-					
-	2	100000., 100000.	-2147000	2147000	7/2

36935	SAFE_POS_LIMIT_MINUS			A03, A05, -	FBSI
mm, degrees	Lower limit of safe end position			DOUBLE	POWER ON
-					
-	2	-100000., -100000.	-2147000	2147000	7/2

36936	SAFE_CAM_POS_PLUS			A03, A05, -	FBSI
mm, degrees	Plus cam position for safe cams			DOUBLE	POWER ON
-					
-	4	10., 10., 10., 10.	-2147000	2147000	7/2

36937	SAFE_CAM_POS_MINUS			A03, A05, -	FBSI
mm, degrees	Minus cam position for safe cams			DOUBLE	POWER ON
-					
-	4	-10., -10., -10., -10.	-2147000	2147000	7/2

36940	SAFE_CAM_TOL			A05, -	FBSI
mm, degrees	Tolerance for safe cams			DOUBLE	POWER ON
-					
-	-	0.1	0.001	10	7/2

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36942	SAFE_POS_TOL			A05, -	FBSI
mm, degrees	Tolerance actual value cross-check			DOUBLE	POWER ON
-					
-	-	0.1	0.001	360	7/2

36944	SAFE_REFP_POS_TOL			A05, -	FBSI
mm, degrees	Tolerance actual value check (referencing)			DOUBLE	POWER ON
-					
-	-	0.01	0	36	7/2

36946	SAFE_VELO_X			A05, -	FBSI
mm/min, rev/min	Velocity limit n_x			DOUBLE	POWER ON
-					
-	-	20.	0.	6000.	7/2

36948	SAFE_STOP_VELO_TOL			A05, -	FBSI
mm/min, rev/min	Velocity tolerance for Safe braking ramp			DOUBLE	POWER ON
-					
-	-	300.	0.	120000.	7/2

36949	SAFE_SLIP_VELO_TOL			A05, -	FBSI
mm/min, rev/min	Slip velocity tolerance			DOUBLE	POWER ON
-					
-	-	6.	0.	6000.	7/2

36950	SAFE_MODE_SWITCH_TIME			A05, -	FBSI
s	Tolerance time for SGE switchover			DOUBLE	POWER ON
-					
-	-	0.5	0	10.	7/2

36951	SAFE_VELO_SWITCH_DELAY			A05, -	FBSI
s	Delay time for velocity changeover			DOUBLE	POWER ON
-					
-	-	0.1	0	600	7/2

36952	SAFE_STOP_SWITCH_TIME_C			A05, -	FBSI
s	Transition time STOP C to safe standstill			DOUBLE	POWER ON
-					
-	-	0.1	0	600	7/2

36953	SAFE_STOP_SWITCH_TIME_D			A05, -	FBSI
s	Transition time STOP D to safe standstill			DOUBLE	POWER ON
-					
-	-	0.1	0	600	7/2

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36954	**SAFE_STOP_SWITCH_TIME_E**			A05, -	FBSI
s	Transitional period STOP E to safe standstill			DOUBLE	POWER ON
-					
-	-	0.1	0	600	7/2

36955	**SAFE_STOP_SWITCH_TIME_F**			A05, -	FBSI
s	Transition time STOP F to STOP B			DOUBLE	POWER ON
-					
-	-	0.0	0	600	7/2

36956	**SAFE_PULSE_DISABLE_DELAY**			A05, -	FBSI
s	Delay time for pulse suppression			DOUBLE	POWER ON
-					
-	-	0.1	0	600	7/2

36957	**SAFE_PULSE_DIS_CHECK_TIME**			A05, -	FBSI
s	Time for checking pulse suppression			DOUBLE	POWER ON
-					
-	-	0.1	0	10	7/2

36958	**SAFE_ACCEPTANCE_TST_TIMEOUT**			A05, -	FBSI
s	Time limit for acceptance test duration			DOUBLE	POWER ON
-					
-	-	40.0	5	100	7/2

36960	**SAFE_STANDSTILL_VELO_TOL**			A05, A04, -	FBSI
mm/min, rev/min	Creep speed for pulse suppression			DOUBLE	POWER ON
-					
-	-	0.0	0.0	6000.	7/2

36961	**SAFE_VELO_STOP_MODE**			A05, -	FBSI
-	Stop reaction for safe velocity			BYTE	POWER ON
-					
-	-	5	0	14	7/2

36962	**SAFE_POS_STOP_MODE**			A05, -	FBSI
-	Stop reaction for safe end position			BYTE	POWER ON
-					
-	-	2	2	4	7/2

36963	**SAFE_VELO_STOP_REACTION**			A05, -	FBSI
-	Stop reaction for safe velocity			BYTE	POWER ON
-					
-	4	2, 2, 2, 2	0	14	7/2

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36964	SAFE_IPO_STOP_GROUP			A01, A05, -	FBSI
-	Safety-integrated IPO-response grouping			BYTE	RESET
-					
-	-	0	0	1	7/2

36965	SAFE_PARK_ALARM_SUPPRESS			A01, -	FBSI
-	Alarm suppression on parking axis			BOOLEAN	POWER ON
-					
-	-	FALSE	-	-	7/2

36966	SAFE_BRAKETEST_TORQUE			A05, A10, -	FBSI
%	Holding torque for brake test			DOUBLE	POWER ON
CTEQ					
-	-	5.0	0.0	800.0	7/2

36967	SAFE_BRAKETEST_POS_TOL			A05, A10, -	FBSI
mm, degrees	Position tolerance for brake test			DOUBLE	POWER ON
CTEQ					
-	-	1.0	-	-	7/2

36968	SAFE_BRAKETEST_CONTROL			A05, A10, -	-
-	Program check for the brake test			DWORD	POWER ON
CTEQ					
-	-	0	0	1	7/2

36970	SAFE_SVSS_DISABLE_INPUT			A01, A05, -	FBSI
-	Input assignment SBH/SG deselection			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36971	SAFE_SS_DISABLE_INPUT			A01, A05, -	FBSI
-	Input assignment SBH deselection			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36972	SAFE_VELO_SELECT_INPUT			A01, A05, -	FBSI
-	Input assignment SG selection			DWORD	POWER ON
-					
-	2	0, 0	-	-	7/2

36973	SAFE_POS_SELECT_INPUT			A01, A05, -	FBSI
-	Input assignment SE selection			DWORD	POWER ON
-					
-	-	0	-	-	7/2

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36974	SAFE_GEAR_SELECT_INPUT			A01, A05, -	FBSI
-	Input assignment speed ratio selection			DWORD	POWER ON
-					
-	3	0, 0, 0	-	-	7/2

36975	SAFE_STOP_REQUEST_INPUT			A01, A05, -	FBSI
-	Input assignment test stop selection			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36976	SAFE_PULSE_STATUS_INPUT			A01, A05, -	FBSI
-	Input assignment status pulses suppressed			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36977	SAFE_EXT_STOP_INPUT			A01, A05, -	FBSI
-	Input assignment for external stop request			DWORD	POWER ON
-					
-	4	0, 0, 0, 0	-	-	7/2

36978	SAFE_OVR_INPUT			A01, A05, -	FBSI
-	Input assignment for SG override			DWORD	POWER ON
-					
-	4	0, 0, 0, 0	-	-	7/2

36979	SAFE_STOP_REQUEST_EXT_INPUT			A01, A05, -	FBSI
-	Input assignment for test of external shutdown			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36980	SAFE_SVSS_STATUS_OUTPUT			A01, A05, -	FBSI
-	Output assignment SBH/SG active			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36981	SAFE_SS_STATUS_OUTPUT			A01, A05, -	FBSI
-	Output assignment SBH active			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36982	SAFE_VELO_STATUS_OUTPUT			A01, A05, -	FBSI
-	Output assignment for active SG selection			DWORD	POWER ON
-					
-	2	0, 0	-	-	7/2

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36984	**SAFE_EXT_PULSE_ENAB_OUTPUT**			A01, A05, -	FBSI
-	Output assignment enable for pulses external			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36985	**SAFE_VELO_X_STATUS_OUTPUT**			A01, A05, -	FBSI
-	Output assignment n < n_x			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36986	**SAFE_PULSE_ENABLE_OUTPUT**			A01, A05, -	FBSI
-	Output assignment enable pulses			DWORD	POWER ON
-					
-	-	0	0x0	0xFFFFFFFF	7/2

36987	**SAFE_REFP_STATUS_OUTPUT**			A01, A05, -	FBSI
-	Output assignment axis safely referenced			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36988	**SAFE_CAM_PLUS_OUTPUT**			A01, A05, -	FBSI
-	Output assignment SN1 + to SN4 +			DWORD	POWER ON
-					
-	4	0, 0, 0, 0	-	-	7/2

36989	**SAFE_CAM_MINUS_OUTPUT**			A01, A05, -	FBSI
-	Output assignment SN1 - to SN4 -			DWORD	POWER ON
-					
-	4	0, 0, 0, 0	-	-	7/2

36990	**SAFE_ACT_STOP_OUTPUT**			A01, A05, -	FBSI
-	Output assignment of active stop			DWORD	POWER ON
-					
-	4	0, 0, 0, 0	-	-	7/2

36992	**SAFE_CROSSCHECK_CYCLE**			A01, A05, A08, -	FBSI
s	Display of axial cross-check cycle			DOUBLE	POWER ON
READ					
-	-	0.0	-	-	7/0

36993	**SAFE_CONFIG_CHANGE_DATE**			EXP, A07, A05, -	FBSI
-	Date/time of last change of SI-NCK MD			STRING	POWER ON
READ					
-	7	"", "", "", "", "", "", ""	-	-	7/0

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36994	SAFE_PREV_CONFIG			EXP, A07, A05, -	FBSI
-	Data of previous safety configuration			DWORD	POWER ON
READ					
-	7	0, 0, 0, 0, 0, 0, 0	-	-	0/0

36995	SAFE_STANDSTILL_POS			A07, A05, -	FBSI
-	Standstill position			DWORD	POWER ON
-					
-	-	0	-	-	0/0

36997	SAFE_ACKN			A07, A05, -	FBSI
-	User acknowledge			DWORD	POWER ON
-					
-	-	0	-	-	7/2

36998	SAFE_ACT_CHECKSUM			EXP, A07, A05, -	FBSI
-	Actual checksum			DWORD	POWER ON
READ					
-	2	0, 0	-	-	7/0

36999	SAFE_DES_CHECKSUM			EXP, A07, A05, -	FBSI
-	Desired (expected) checksum			DWORD	POWER ON
-					
-	2	0, 0	-	-	7/1

2.5.8 Travel to fixed stop

37000	FIXED_STOP_MODE			A10, -	F1
-	Travel to fixed stop mode			BYTE	POWER ON
CTEQ					
-	-	0	0	3	7/2

37002	FIXED_STOP_CONTROL			A10	F1
-	Sequence control for travel to fixed stop			BYTE	POWER ON
-					
-	-	0	0	3	7/2

37010	FIXED_STOP_TORQUE_DEF			A10	F1
%	Default fixed stop clamping torque			DOUBLE	POWER ON
CTEQ					
-	-	5.0	0.0	100.0	7/2

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37012	FIXED_STOP_TORQUE_RAMP_TIME			A10	F1
s	Time period until reaching the changed torque limit			DOUBLE	NEW CONF
-					
-	-	0.0	-	-	7/2

37014	FIXED_STOP_TORQUE_FACTOR			A10	F1
-	Adaption factor torque limit			DOUBLE	NEW CONF
-					
-	-	1.0	-	-	7/2

37020	FIXED_STOP_WINDOW_DEF			A05, A10	F1
mm, degrees	Default fixed-stop monitoring window			DOUBLE	POWER ON
CTEQ					
-	-	1.0	-	-	7/2

37030	FIXED_STOP_THRESHOLD			A10, -	F1
mm, degrees	Threshold for fixed stop detection			DOUBLE	NEW CONF
-					
-	-	2.0	-	-	7/2

37040	FIXED_STOP_BY_SENSOR			A10	F1
-	Fixed stop detection by sensor			BYTE	SOFORT
CTEQ					
-	-	0	0	3	7/2

37050	FIXED_STOP_ALARM_MASK			A05, A10	F1
-	Enable of the fixed stop alarms			BYTE	NEW CONF
-					
-	-	1	0	15	7/2

37052	FIXED_STOP_ALARM_REACTION			A05, A10	F1
-	Reaction with fixed stop alarms			BYTE	POWER ON
-					
-	-	0	-	-	7/1

37060	FIXED_STOP_ACKN_MASK			A10	F1
-	Waiting for PLC acknowledgements during travel to fixed stop			BYTE	POWER ON
CTEQ					
-	-	0	0	3	7/2

37070	FIXED_STOP_ANA_TORQUE			A10	F1
%	Torque limit when approaching the fixed stop for analog drives			DOUBLE	POWER ON
CTEQ					
-	-	5.0	0.0	100.0	7/2

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37080	FOC_ACTIVATION_MODE			A10	F1
-	Initial setting of modal torque/force limitation			BYTE	POWER ON
-					
-	-	0	0	3	7/2

37100	GANTRY_AXIS_TYPE			A01, A10	G1
-	Gantry axis definition			BYTE	POWER ON
CTEQ					
-	-	0	0	33	7/2

37110	GANTRY_POS_TOL_WARNING			A05, A10	G1
mm, degrees	Gantry warning limit			DOUBLE	RESET
-					
-	-	0.0	-	-	7/2

37120	GANTRY_POS_TOL_ERROR			A05, A10	G1
mm, degrees	Gantry trip limit			DOUBLE	POWER ON
-					
-	-	0.0	-	-	7/2

37130	GANTRY_POS_TOL_REF			A05, A10	G1
mm, degrees	Gantry trip limit during referencing			DOUBLE	POWER ON
-					
-	-	0.0	-	-	7/2

37135	GANTRY_ACT_POS_TOL_ERROR			A05, A10	-
mm, degrees	Current gantry trip limit			DOUBLE	RESET
-					
-	-	0.0	-	-	7/2

37140	GANTRY_BREAK_UP			EXP, A01, A10	G1
-	Invalidate gantry axis grouping			BOOLEAN	RESET
CTEQ					
-	-	FALSE	-	-	7/2

37150	GANTRY_FUNCTION_MASK			A10	-
-	Gantry functions			DWORD	RESET
-					
-	-	0x00	0	0x3	7/2

37160	LEAD_FUNCTION_MASK			A10	-
-	Functions for master value coupling			DWORD	NEW CONF
CTEQ					
-	-	0x01	0	0x3	1/1

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37200	COUPLE_POS_TOL_COARSE			A05, A10	S3
mm, degrees	Threshold value for 'Synchronism coarse'			DOUBLE	NEW CONF
-					
-	-	1.0	-	-	7/2

37210	COUPLE_POS_TOL_FINE			A05, A10	S3
mm, degrees	Threshold value for 'Synchronism fine'			DOUBLE	NEW CONF
-					
-	-	0.5	-	-	7/2

37220	COUPLE_VELO_TOL_COARSE			A05, A10	S3
mm/min, rev/min	Velocity tolerance 'coarse'			DOUBLE	NEW CONF
-					
-	-	60.0	-	-	7/2

37230	COUPLE_VELO_TOL_FINE			A05, A10	S3
mm/min, rev/min	Velocity tolerance 'fine'			DOUBLE	NEW CONF
-					
-	-	30.0	-	-	7/2

37250	MS_ASSIGN_MASTER_SPEED_CMD			A10	TE3
-	Master axis number for speed setpoint coupling			DWORD	POWER ON
-					
-	-	0	0	31	7/2
840d-2a2c	-	-	-	2	-/-
840d-4a1cg	-	-	-	4	-/-

37252	MS_ASSIGN_MASTER_TORQUE_CTR			A10	TE3
-	Master axis number for torque control			DWORD	POWER ON
-					
-	-	0	0	31	7/2

37253	MS_FUNCTION_MASK			A10	-
-	Master/slave settings			DWORD	NEW CONF
-					
-	-	0x0	-	-	7/2

37254	MS_TORQUE_CTRL_MODE			A10	TE3
-	Torque compensatory controller interconnection			DWORD	SOFORT
-					
-	-	0	0	3	7/2

37255	MS_TORQUE_CTRL_ACTIVATION			A10	TE3
-	Torque compensatory controller activation			BYTE	NEW CONF
-					
-	-	0	0	1	7/2

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37256	MS_TORQUE_CTRL_P_GAIN			A10	TE3
%	Torque compensatory controller gain factor			DOUBLE	NEW CONF
-					
-	-	0.0	0.0	100.0	7/2

37258	MS_TORQUE_CTRL_I_TIME			A10	TE3
s	Torque compensatory controller integral action time			DOUBLE	NEW CONF
-					
-	-	0.0	0.0	100.0	7/2

37260	MS_MAX_CTRL_VELO			A10	TE3
%	Torque compensatory controller limit			DOUBLE	NEW CONF
-					
-	-	100.0	0.0	100.0	7/2

37262	MS_COUPLING_ALWAYS_ACTIVE			A10	TE3
-	Permanent master/slave link			BYTE	NEW CONF
-					
-	-	0	0	1	7/2

37263	MS_SPIND_COUPLING_MODE			A10	-
-	Link response of a spindle			BYTE	NEW CONF
-					
-	-	0	0	1	7/2

37264	MS_TENSION_TORQUE			A10	TE3
%	Master/slave tension torque			DOUBLE	SOFORT
-					
-	-	0.0	-100.0	100.0	7/2

37266	MS_TENSION_TORQ_FILTER_TIME			A10	TE3
s	Filter time constant tension torque			DOUBLE	NEW CONF
-					
-	-	0.0	0.0	100.0	7/2

37268	MS_TORQUE_WEIGHT_SLAVE			A10	TE3
%	Torque weighting of slave axis			DOUBLE	NEW CONF
-					
-	-	50.0	1.0	100.0	7/2

37270	MS_VELO_TOL_COARSE			A10	TE3
%	Master/slave speed tolerance coarse			DOUBLE	NEW CONF
-					
-	-	5.0	-	-	7/2

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37272	**MS_VELO_TOL_FINE**			A10	TE3
%	Master/slave speed tolerance fine			DOUBLE	NEW CONF
-					
-	-	1.0	-	-	7/2

37274	**MS_MOTION_DIR_REVERSE**			A10	TE3
-	Inverting traversing direction slave axis			BYTE	NEW CONF
-					
-	-	0	0	1	7/2

37400	**EPS_TLIFT_TANG_STEP**			A10	T3
mm, degrees	Tangent angle for corner recognition			DOUBLE	RESET
CTEQ					
-	-	5.0	-	-	7/2

37402	**TANG_OFFSET**			A10	T3
mm, degrees	Default angle for tangential correction			DOUBLE	RESET
CTEQ					
-	-	0.0	-	-	7/2

37500	**ESR_REACTION**			EXP, A01, A10, -	M3
-	Axial mode of "Extended Stop and Retract"			BYTE	NEW CONF
CTEQ					
-	-	0	0	22	7/2

37510	**AX_ESR_DELAY_TIME1**			EXP, A01, A10, -	-
s	Delay time ESR single axis			DOUBLE	NEW CONF
CTEQ					
-	-	0.0	-	-	7/2

37511	**AX_ESR_DELAY_TIME2**			EXP, A01, A10, -	-
s	ESR time for interpolatory deceleration of single axis			DOUBLE	NEW CONF
CTEQ					
-	-	0.0	-	-	7/2

37550	**EG_VEL_WARNING**			A05, A10	M3
%	Threshold value for velocity warning threshold.			DOUBLE	NEW CONF
-					
-	-	90.0	0	100	7/2

37560	**EG_ACC_TOL**			A05, A10	M3
%	Threshold value for 'Axis accelerating'			DOUBLE	NEW CONF
-					
-	-	25.0	-	-	7/2

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37600	PROFIBUS_ACTVAL_LEAD_TIME			EXP, A01, A02	G3
s	Actual value acquisition time (Profibus Ti)			DOUBLE	POWER ON
-					
-	-	0.000125	0.0	0.032	0/0

37602	PROFIBUS_OUTVAL_DELAY_TIME			EXP, A01, A02	G3
s	Setpoint delay time (Profibus To)			DOUBLE	POWER ON
-					
-	-	0.003	0.0	0.032	0/0

37610	PROFIBUS_CTRL_CONFIG			EXP, A01	K4
-	Profibus control bit configuration			BYTE	POWER ON
-					
-	-	0	0	2	7/2

37620	PROFIBUS_TORQUE_RED_RESOL			EXP, A01	-
%	Resolution Profibus torque reduction			DOUBLE	NEW CONF
-					
-	-	1.0	0.005	10.0	7/2

37800	OEM_AXIS_INFO			A01, A11	-
-	OEM version information			STRING	POWER ON
-					
-	2	"", ""	-	-	7/2

2.5.9 Axis-specific memory settings

38000	MM_ENC_COMP_MAX_POINTS			A01, A09, A02	K3
-	Number of intermediate points for interpol. compensation (SRAM)			DWORD	POWER ON
-					
-	2	0, 0	0	5000	7/2

38010	MM_QEC_MAX_POINTS			A01, A09	K3
-	Number of values for quadrant error compens. with neural network			DWORD	POWER ON
-					
-	1	0	0	1040	7/2

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2.6 Setting data

Number	Identifier			Display filters	Reference
Unit	Name			Data type	Active
Attributes					
System	Dimension	Default value	Minimum value	Maximum value	Protection

2.6.1 General setting data

41010	JOG_VAR_INCR_SIZE			-	H1
-	Size of the variable increment for JOG			DOUBLE	SOFORT
-					
-	-	0.	-	-	7/7

41050	JOG_CONT_MODE_LEVELTRIGGRD			-	H1
-	Jog mode / continuous operation with continuous JOG			BOOLEAN	SOFORT
-					
-	-	TRUE	-	-	7/7

41100	JOG_REV_IS_ACTIVE			-	-
-	JOG mode: (1) revolutional feedrate / (0) feedrate			BYTE	SOFORT
-					
-	-	14	-	-	7/7

41110	JOG_SET_VELO			-	H1
mm/min	Axis velocity in JOG			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

41120	JOG_REV_SET_VELO			-	H1
mm/rev	Revolutional feedrate of axes in JOG mode			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

41130	JOG_ROT_AX_SET_VELO			-	H1
rev/min	Axis velocity for rotary axes in JOG mode			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

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41200	JOG_SPIND_SET_VELO			-	H1
rev/min	Speed for spindle JOG mode			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

41300	CEC_TABLE_ENABLE			-	K3
-	Compensation table enable			BOOLEAN	SOFORT
-					
-	62	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/7

41310	CEC_TABLE_WEIGHT			-	K3
-	Weighting factor compensation table			DOUBLE	SOFORT
-					
-	62	1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0...	-	-	7/7

41500	SW_CAM_MINUS_POS_TAB_1			-	N3
mm/inch, degrees	Trigger points at falling cam 1-8			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41501	SW_CAM_PLUS_POS_TAB_1			-	N3
mm/inch, degrees	Trigger points at rising cam edge 1-8			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41502	SW_CAM_MINUS_POS_TAB_2			-	N3
mm/inch, degrees	Trigger points at falling cam edge 9-16			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41503	SW_CAM_PLUS_POS_TAB_2			-	N3
mm/inch, degrees	Trigger points at rising cam edge 9-16			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

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41504	**SW_CAM_MINUS_POS_TAB_3**			-	N3
mm/inch, degrees	Trigger points at falling cam edge 17-24			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41505	**SW_CAM_PLUS_POS_TAB_3**			-	N3
mm/inch, degrees	Trigger points at rising cam edge 17-24			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41506	**SW_CAM_MINUS_POS_TAB_4**			-	N3
mm/inch, degrees	Trigger points at falling cam edge 25-32			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41507	**SW_CAM_PLUS_POS_TAB_4**			-	N3
mm/inch, degrees	Trigger points at rising cam edge 25-32			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41520	**SW_CAM_MINUS_TIME_TAB_1**			-	N3
s	Rate time for '-' trigger points of cams 1-8			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41521	**SW_CAM_PLUS_TIME_TAB_1**			-	N3
s	Rate time for '+' trigger points of cams 1-8			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41522	**SW_CAM_MINUS_TIME_TAB_2**			-	N3
s	Rate time for '-' trigger points of cams 9-16			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

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41523	**SW_CAM_PLUS_TIME_TAB_2**			-	N3
s	Rate time for '+' trigger points of cams 9-16			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41524	**SW_CAM_MINUS_TIME_TAB_3**			-	N3
s	Rate time for '-' trigger points of cams 17-24			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41525	**SW_CAM_PLUS_TIME_TAB_3**			-	N3
s	Rate time for '+' trigger points of cams 17-24			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41526	**SW_CAM_MINUS_TIME_TAB_4**			-	N3
s	Rate time for '-' trigger points of cams 25-32			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41527	**SW_CAM_PLUS_TIME_TAB_4**			-	N3
s	Rate time for '+' trigger points of cams 25-32			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41600	**COMPAR_THRESHOLD_1**			-	A4
-	Threshold value of the 1st comparator			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41601	**COMPAR_THRESHOLD_2**			-	A4
-	Threshold value of the 2nd comparator			DOUBLE	SOFORT
-					
-	8	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/7

41700	**AXCT_SWWIDTH**			-	B3
-	Default rotation of axis container			DWORD	NEW CONF
CTDE					
-	16	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-32	32	7/7

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2.6.2 Channel-specific setting data

42000	THREAD_START_ANGLE			-	K1
degrees	Starting angle for thread			DOUBLE	SOFORT
-					
-	-	0.,0.,0.,

42125	**SERUPRO_SYNC_MASK**			-	-
-	Ssynchronization in approach blocks			DWORD	SOFORT
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

42140	**DEFAULT_SCALE_FACTOR_P**			-	FBFA
-	Default scaling factor for address P			DWORD	SOFORT
-					
-	-	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	-	-	7/7

42150	**DEFAULT_ROT_FACTOR_R**			-	-
-	Default rotation factor for address R			DOUBLE	SOFORT
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/7

42160	**EXTERN_FIXED_FEEDRATE_F1_F9**			-	FBFA
-	Fixed feedrates F1 - F9			DOUBLE	SOFORT
-					
-	10	0., 0., 0., 0., 0., 0., 0., 0., 0., 0....	-	-	7/7

42162	**EXTERN_DOUBLE_TURRET_DIST**			-	FBFA
-	Double turret head tool distance			DOUBLE	SOFORT
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/7

42200	**SINGLEBLOCK2_STOPRE**			-	BA
-	Activate SBL2 debug mode			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/7

42300	**COUPLE_RATIO_1**			-	-
-	Speed ratio for synchr. spindle mode, numerator, denominator			DOUBLE	SOFORT
-					
-	2	1.0, 1.0,1.0, 1.0,1.0, 1.0,1.0, 1.0...	-1.0e8	1.0e8	7/7

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42400	PUNCH_DWELLTIME			-	N4
s	Dwell time for punching and nibbling			DOUBLE	SOFORT
-					
-	-	1.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/7

42402	NIBPUNCH_PRE_START_TIME			-	N4
s	Delay time (punch/nibble) with G603			DOUBLE	SOFORT
-					
-	-	.02,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/7

42404	MINTIME_BETWEEN_STROKES			-	N4
s	Minimum time between 2 strokes in seconds			DOUBLE	SOFORT
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/7

42440	FRAME_OFFSET_INCR_PROG			-	K2
-	Traversing from zero offset with incr. programming			BOOLEAN	SOFORT
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/7

42442	TOOL_OFFSET_INCR_PROG			-	W1
-	Traversing from zero offset with incr. programming			BOOLEAN	SOFORT
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/7

42444	TARGET_BLOCK_INCR_PROG			-	BA
-	Set down mode after search run with calculation			BOOLEAN	SOFORT
-					
-	-	TRUE,TRUE,TRUE,TRUE,TRUE,TRUE,TRUE...	-	-	7/7

42450	CONTPREC			-	B1,K6
mm	Contour accuracy			DOUBLE	SOFORT
-					
-	-	0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1...	0.000001	999999.	7/7

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42460	MINFEED			-	B1,K6
mm/min	Minimum path feedrate for CPRECON			DOUBLE	SOFORT
-					
-	-	1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1.,1....	0.000001	999999.	7/7

42465	SMOOTH_CONTUR_TOL			-	B1
mm	maximum contour tolerance on smoothing			DOUBLE	SOFORT
-					
-	-	0.05,0.05,0.05,0.05,0.05,0.05,0.05,0.05...	0.000001	999999.	7/7

42466	SMOOTH_ORI_TOL			-	B1
degrees	Maximum deviation of tool orientation during smoothing.			DOUBLE	SOFORT
-					
-	-	0.05,0.05,0.05,0.05,0.05,0.05,0.05,0.05...	0.000001	90.	7/7

42470	CRIT_SPLINE_ANGLE			-	W1,PGA
degrees	Corner limit angle for compressor			DOUBLE	SOFORT
-					
-	-	36.0,36.0,36.0,36.0,36.0,36.0,36.0,36.0...	0.0	89.0	7/7

42471	MIN_CURV_RADIUS			EXP, C09	-
mm	Minimum radius of curvature			DOUBLE	SOFORT
-					
-	-	3.0,3.0,3.0,3.0,3.0,3.0,3.0,3.0,3.0...	-	-	7/7

42475	COMPRESS_CONTUR_TOL			-	F2,PGA
mm	maximum contour deviation with compressor			DOUBLE	SOFORT
-					
-	-	0.05,0.05,0.05,0.05,0.05,0.05,0.05,0.05...	0.000001	999999.	7/7

42476	COMPRESS_ORI_TOL			-	F2,PGA
degrees	Maximum deviation of tool orientation with compressor			DOUBLE	SOFORT
-					
-	-	0.05,0.05,0.05,0.05,0.05,0.05,0.05,0.05...	0.000001	90.	7/7

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42477	COMPRESS_ORI_ROT_TOL			-	F2,PGA
degrees	Maximum deviation of tool rotation with compressor			DOUBLE	SOFORT
-					
-	-	0.05,0.05,0.05,0.05, 0.05,0.05,0.05...	0.000001	90.	7/7

42480	STOP_CUTCOM_STOPRE			-	W1
-	Alarm response with tool radius compensation and preproc. stop			BOOLEAN	SOFORT
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

42490	CUTCOM_G40_STOPRE			-	W1
-	Retraction behavior of tool radius compensation with prep. stop			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FAL SE,FALSE,FALSE, FALSE...	-	-	7/7

42494	CUTCOM_ACT_DEACT_CTRL			-	W1
-	Approach & retraction behavior with 2-1/2D tool radius compens.			DWORD	SOFORT
-					
-	-	2222,2222,2222,22 22,2222,2222,2222. ..	-	-	7/7

42496	CUTCOM_CLSD_CONT			-	-
-	Tool radius compensation behavior with closed contour			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FAL SE,FALSE,FALSE, FALSE...	-	-	7/7

42500	SD_MAX_PATH_ACCEL			-	B2
m/s²	maximum path acceleration			DOUBLE	SOFORT
-					
-	-	10000.,10000.,1000 0.,10000.,10000....	1.0e-3	-	7/7

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42502	IS_SD_MAX_PATH_ACCEL			-	B2
-	Evaluate SD SC_SD_MAX_PATH_ACCEL			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/7

42510	SD_MAX_PATH_JERK			-	B2
m/s³	maximum path-related jerk as setting data			DOUBLE	SOFORT
-					
-	-	100000.,100000.,100000.,100000....	1.e-9	-	7/7

42512	IS_SD_MAX_PATH_JERK			-	B2
-	Evaluate SD SD_MAX_PATH_JERK			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/7

42520	CORNER_SLOWDOWN_START			-	-
mm	Start of feed reduction at G62.			DOUBLE	SOFORT
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/7

42522	CORNER_SLOWDOWN_END			-	-
mm	End of feed reduction at G62.			DOUBLE	SOFORT
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/7

42524	CORNER_SLOWDOWN_OVR			-	-
%	Feed override reduction at G62			DOUBLE	SOFORT
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/7

42526	CORNER_SLOWDOWN_CRIT			-	-
degrees	Corner detection at G62			DOUBLE	SOFORT
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	-	-	7/7

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42528	CUTCOM_DECEL_LIMIT			-	-
-	Feed lowering on circles with tool radius compensation			DOUBLE	SOFORT
-					
-	-	0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0....	0.	1.	7/7

42600	JOG_FEED_PER_REV_SOURCE			-	V1
-	Control revolutional feedrate in JOG			DWORD	SOFORT
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-3	31	7/7

42650	CART_JOG_MODE			-	H1
-	Coordinate system for Cartesian jog traverse			DWORD	SOFORT
-					
-	-	0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0...	0	0x0404	7/7

42660	ORI_JOG_MODE			-	-
-	Definition of virtual kinematics for JOG			DWORD	SOFORT
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	5	7/7

42670	ORIPATH_SMOOTH_DIST			-	-
mm, degrees	Path for smoothing the orientation			DOUBLE	SOFORT
-					
-	-	0.05,0.05,0.05,0.05,0.05,0.05,0.05,0.05...	0.0	-	7/7

42672	ORIPATH_SMOOTH_TOL			-	-
degrees	Tolerance for smoothing the orientation			DOUBLE	SOFORT
-					
-	-	0.05,0.05,0.05,0.05,0.05,0.05,0.05,0.05...	0.000001	-	7/7

42674	ORI_SMOOTH_DIST			-	-
mm, degrees	Path for orientation smoothing during smoothing			DOUBLE	SOFORT
-					
-	-	0.05,0.05,0.05,0.05,0.05,0.05,0.05,0.05...	0.000001	-	7/7

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42676	ORI_SMOOTH_TOL			-	-
degrees	Tolerance for orientation smoothing during smoothing			DOUBLE	SOFORT
-					
-	-	0.05,0.05,0.05,0.05, 0.05,0.05,0.05...	0.000001	-	7/7

42678	ORISON_TOL			-	-
degrees	Tolerance for smoothing the orientation			DOUBLE	SOFORT
-					
-	-	0.05,0.05,0.05,0.05, 0.05,0.05,0.05...	-	-	7/7

42700	EXT_PROG_PATH			-	K1
-	Program path for external subroutine call EXTCALL			STRING	SOFORT
-					
-	-		-	-	7/7

42750	ABSBLOCK_ENABLE			-	K1
-	Enable base block display			BOOLEAN	SOFORT
-					
-	-	TRUE,TRUE,TRUE, TRUE,TRUE,TRUE, TRUE...	-	-	7/7

42800	SPIND_ASSIGN_TAB			-	S1
-	Spindle number converter.			BYTE	SOFORT
-					
-	21	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17...	0	21	7/7

42900	MIRROR_TOOL_LENGTH			-	W1
-	Sign change of tool length with mirror image machining			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE, FALSE...	-	-	7/7

42910	MIRROR_TOOL_WEAR			-	W1
-	Sign change of tool wear with mirror image machining			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE, FALSE...	-	-	7/7

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42920	WEAR_SIGN_CUTPOS			-	W1
-	Sign of tool wear depending on tool point direction			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/7

42930	WEAR_SIGN			-	W1
-	Sign of wear			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/7

42935	WEAR_TRANSFORM			-	W1,W4
-	Transformations for tool components			DWORD	SOFORT
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

42940	TOOL_LENGTH_CONST			-	W1
-	Change of tool length components with change of active plane			DWORD	SOFORT
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

42950	TOOL_LENGTH_TYPE			-	W1
-	Assignment of tool length compensation independent of tool type			DWORD	SOFORT
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-	-	7/7

42960	TOOL_TEMP_COMP			-	W1
-	Temperature compensation for tool			DOUBLE	SOFORT
-					
-	3	0.0, 0.0, 0.0,0.0, 0.0, 0.0...	-	-	7/7

42970	TOFF_LIMIT			-	F2
mm	Upper limit of correction value via $AA_TOFF			DOUBLE	SOFORT
-					
-	3	100000000.0, 100000000.0, 100000000.0...	-	-	7/7

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42974	TOCARR_FINE_CORRECTION			C08	-
-	Fine offset TCARR ON / OFF			BOOLEAN	SOFORT
-					
-	-	FALSE,FALSE,FALSE,FALSE,FALSE,FALSE...	-	-	7/7

42980	TOFRAME_MODE			-	K2
-	Frame definition at TOFRAME, TOROT and PAROT			DWORD	SOFORT
-					
-	-	1000,1000,1000,1000,1000,1000,1000...	-	-	7/7

42984	CUTDIRMOD			C08	-
-	Modification of $P_AD[2] or $P_AD[11]			STRING	SOFORT
-					
-	-		-	-	7/7

42990	MAX_BLOCKS_IN_IPOBUFFER			-	K1
-	maximum number of blocks in IPO buffer			DWORD	SOFORT
-					
-	-	-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1...	-	-	7/7

42995	CONE_ANGLE			-	-
-	Taper angle			DOUBLE	SOFORT
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-90	90	7/7

2.6.3 Axis-specific setting data

43100	LEAD_TYPE			-	M3
-	Defines what is used as master value			DWORD	RESET
CTEQ					
-	-	1	0	2	7/7

43102	LEAD_OFFSET_IN_POS			-	M3
-	Offset of master value if coupled to this axis			DOUBLE	RESET
-					
-	-	0.0	-	-	7/7

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43104	LEAD_SCALE_IN_POS			-	M3
-	Scaling of master value if coupled to this axis			DOUBLE	RESET
-					
-	-	1.0	-	-	7/7

43106	LEAD_OFFSET_OUT_POS			-	M3
mm, degrees	Offset of the functional value of the curve table			DOUBLE	RESET
-					
-	-	0.0	-	-	7/7

43108	LEAD_SCALE_OUT_POS			-	M3
-	Scaling of functional value of the curve table			DOUBLE	RESET
-					
-	-	1.0	-	-	7/7

43120	DEFAULT_SCALE_FACTOR_AXIS			-	FBFA
-	Axial default scaling factor with G51 active			DWORD	SOFORT
-					
-	-	1	-	-	7/7

43200	SPIND_S			-	S1
rev/min	Speed for spindle start by VDI			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43202	SPIND_CONSTCUT_S			-	S1
m/min	Const cut speed for spindle start by VDI			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43206	SPIND_SPEED_TYPE			A06	-
-	Spindle speed type for spindle start through VDI			DWORD	SOFORT
-					
-	-	94	93	972	7/7

43210	SPIND_MIN_VELO_G25			-	S1
rev/min	Programmed spindle speed limitation G25			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43220	SPIND_MAX_VELO_G26			-	S1
rev/min	Programmed spindle speed limitation G26			DOUBLE	SOFORT
-					
-	-	1000.0	-	-	7/7

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43230	SPIND_MAX_VELO_LIMS			-	S1
rev/min	Spindle speed limitation with G96			DOUBLE	SOFORT
-					
-	-	100.0	-	-	7/7

43240	M19_SPOS			-, A12	S1
degrees	Spindle position for spindle positioning with M19.			DOUBLE	SOFORT
-					
-	-	0.0	-10000000.0	10000000.0	7/7

43250	M19_SPOSMODE			-, A12	S1
-	Spindle position approach mode for spindle positioning with M19.			DWORD	SOFORT
-					
-	-	0	0	5	7/7

43300	ASSIGN_FEED_PER_REV_SOURCE			-	V1,P2,S1
-	Revolutional feedrate for positioning axes/spindles			DWORD	SOFORT
CTEQ					
-	-	0	-3	31	7/7

43340	EXTERN_REF_POSITION_G30_1			-, A12	FBFA
-	Reference point position for G30.1			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43350	AA_OFF_LIMIT			-	S5,FBSY
mm, degrees	Upper limit of offset value $AA_OFF with clearance control			DOUBLE	POWER ON
CTEQ					
-	-	100000000.0	-	-	7/7

43400	WORKAREA_PLUS_ENABLE			-	A3
-	Working area limitation active in positive direction			BOOLEAN	SOFORT
CTEQ					
-	-	FALSE	-	-	7/7

43410	WORKAREA_MINUS_ENABLE			-	A3
-	Working area limitation active in the negative direction			BOOLEAN	SOFORT
CTEQ					
-	-	FALSE	-	-	7/7

43420	WORKAREA_LIMIT_PLUS			-	A3
mm, degrees	Working area limitation plus			DOUBLE	SOFORT
-					
-	-	1.0e+8	-	-	7/7

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43430	**WORKAREA_LIMIT_MINUS**			-	A3
mm, degrees	Working area limitation minus			DOUBLE	SOFORT
-					
-	-	-1.0e+8	-	-	7/7

43500	**FIXED_STOP_SWITCH**			-	F1
-	Selection of travel to fixed stop			BYTE	SOFORT
-					
-	-	0	0	1	7/7

43510	**FIXED_STOP_TORQUE**			-	F1
%	Fixed stop clamping torque			DOUBLE	SOFORT
-					
-	-	5.0	0.0	800.0	7/7

43520	**FIXED_STOP_WINDOW**			-	F1
mm, degrees	Fixed stop monitoring window			DOUBLE	SOFORT
-					
-	-	1.0	-	-	7/7

43600	**IPOBRAKE_BLOCK_EXCHANGE**			A06, A10	K1
%	Block change criterion 'braking ramp'			DOUBLE	SOFORT
-					
-	-	0.0	0	100.0	7/7

43610	**ADISPOSA_VALUE**			A06, A10	P2
mm, degrees	Tolerance window 'braking ramp'			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43700	**OSCILL_REVERSE_POS1**			-	P5
mm, degrees	Oscillation reversal point 1			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43710	**OSCILL_REVERSE_POS2**			-	P5
mm, degrees	Oscillation reversal point 2			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43720	**OSCILL_DWELL_TIME1**			-	P5
s	Hold time at oscillation reversal point 1			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

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43730	OSCILL_DWELL_TIME2			-	P5
s	Hold time at oscillation reversal point 2			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43740	OSCILL_VELO			-	P5
mm/min, rev/min	Feedrate of reciprocating axis			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43750	OSCILL_NUM_SPARK_CYCLES			-	P5
-	Number of spark-out strokes			DWORD	SOFORT
-					
-	-	0	-	-	7/7

43760	OSCILL_END_POS			-	P5
mm, degrees	End position of the reciprocating axis			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43770	OSCILL_CTRL_MASK			-	P5
-	Oscillation sequence control mask			DWORD	SOFORT
-					
-	-	0	-	-	7/7

43780	OSCILL_IS_ACTIVE			-	P5
-	Activate oscillation movement			BOOLEAN	SOFORT
-					
-	-	FALSE	-	-	7/7

43790	OSCILL_START_POS			-	-
mm, degrees	Start position of reciprocating axis			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43900	TEMP_COMP_ABS_VALUE			-	K3
-	Position-independent temperature compensation value			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

43910	TEMP_COMP_SLOPE			-	K3
-	Lead angle for position-dependent temperature compensation			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

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43920	**TEMP_COMP_REF_POSITION**			-	K3
-	Ref. position of position-dependent temperature compensation			DOUBLE	SOFORT
-					
-	-	0.0	-	-	7/7

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2.7 Machine data compile cycles

Number	**Identifier**			Display filters	Reference
Unit	Name			Data type	Active
Attributes					
System	Dimension	Default value	Minimum value	Maximum value	Protection

2.7.1 Channel-specific machine data compile cycles

62500	**CLC_AXNO**			-	-
-	Axis assignment for clearance control			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-2	maximale Achszahl im Kanal	7/2

62502	**CLC_ANALOG_IN**			-	-
-	Analog input for clearance control			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1	1	8	7/2

62504	**CLC_SENSOR_TOUCHED_INPUT**			-	-
-	Assignment of an input bit for the signal			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0	-40	40	7/2

62505	**CLC_SENSOR_LOWER_LIMIT**			-	-
-	Lower motion limit of the clearance control			DOUBLE	RESET
-					
-	mm / inch	-5.0,-10.0,0,0,0,0,0,0	-x.x	0.0	7/2

62506	**CLC_SENSOR_UPPER_LIMIT**			-	-
-	Upper motion limit of the clearance control			DOUBLE	RESET
-					
-	mm / inch	10.0,40.0,0,0,0,0,0,0	0.0	+x.x	7/2

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62508	CLC_SPECIAL_FEATURE_MASK			-	-
-	Special functions + CLC modes			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0	-	-	7/2

62510	CLC_SENSOR_VOLTAGE_TABLE_1			-	-
-	Coordinate voltage interpol. pts. sensor characteristic 1			DWORD	RESET
-					
-	Volt	-10.0,10.0,0.0,0.0,0.0,0.0,0.0,0.0	-10.0	+10.0	7/2

62511	CLC_SENSOR_VELO_TABLE_1			-	-
-	Coordinate velocity interpol. pts. sensor characteristic 1			DWORD	RESET
-					
-	mm / min	2000.0,-2000.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/2

62512	CLC_SENSOR_VOLTAGE_TABLE_2			-	-
-	Coordinate voltage interpol. pts. sensor characteristic 2			DWORD	RESET
-					
-	Volt	-10.0,10.0,0.0,0.0,0.0,0.0,0.0,0.0	-10.0	+10.0	7/2

62513	CLC_SENSOR_VELO_TABLE_2			-	-
-	Coordinate velocity interpol. pts. sensor characteristic 2			DWORD	RESET
-					
-	mm / min	2000.0,-2000.0,0.0,0.0,0.0,0.0,0.0,0.0...	-	-	7/2

62516	CLC_SENSOR_VELO_LIMIT			-	-
-	Velocity of the clearance control motion			DWORD	RESET
-					
-	Prozent	100.0,100.0,100.0,100.0,100.0,100.0...	0.0	100.0	7/2

62517	CLC_SENSOR_ACCEL_LIMIT			-	-
-	Acceleration of the clearance control movement			DWORD	RESET
-					
-	Prozent	100.0,100.0,100.0,100.0,100.0,100.0...	0.0	100.0	7/2

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62520	CLC_SENSOR_STOP_POS_TOL			-	-
-	Pos.tolerance for status report "Clearance control standstill"			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	-2	maximale Achszahl im Kanal	7/2

62521	CLC_SENSOR_STOP_DWELL_TIME			-	-
-	Delay standstill clearance control			DWORD	RESET
-					
-	s	0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1	0.0	-	7/2

62522	CLC_OFFSET_ASSIGN_ANAOUT			-	-
-	Change the setpoint clearance of the overlaid sensor signal			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0	-8	+8	7/2

62523	CLC_LOCK_DIR_ASSIGN_DIGOUT			-	-
-	Assignment digital output interlocking CLC motion			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0,0,0	-40	+40	7/2

62524	CLC_ACTIVE_AFTER_RESET			-	-
-	Clearance control active after RESET			BOOLEAN	NEW CONF
-					
-	-	0,0,0,0,0,0,0,0	-	-	7/2

62525	CLC_SENSOR_FILTER_TIME			-	-
-	Time constant of PT1 sensor filtering			DWORD	RESET
-					
-	s	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	0.0	-	7/2

62528	CLC_PROG_ORI_AX_MASK			-	-
-	Axis screen of the direction axes			DOUBLE	-
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.000	99999.0	7/2

62529	CLC_PROG_ORI_MAX_ANGLE			-	-
-	Limit angle			DOUBLE	-
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.000	99999.0	7/2

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62530	CLC_PROG_ORI_ANGLE_AC_PARAM			-	-
-	Index of the display variables f. the current differential angle			DOUBLE	-
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.000	99999.0	7/2

62560	FASTON_NUM_DIG_OUTPUT			-	-
-	Configuration of the switching output			BYTE	POWER ON
-					
-	-	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0	4	7/2

62561	FASTON_OUT_DELAY_MICRO_SEC			-	-
-	Still missing			DOUBLE	-
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.000	99999.0	7/2

62571	RESU_RING_BUFFER_SIZE			-	-
-	Ring buffer size (block buffer)			DWORD	POWER ON
-					
-	-	1000,1000,1000,1000,1000,1000,1000,1000...	10	1000000	7/2

62572	RESU_SHARE_OF_CC_HEAP_MEM			-	-
-	RESU share of the parameterized heap memory			DOUBLE	-
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.000	99999.0	7/2

62573	RESU_INFO_SA_VAR_INDEX			-	-
-	Indices of the synchronized action variables used			DWORD	POWER ON
-					
-	-	-1,-1,-1,-1,-1,-1,-1,-1	-1	10000	7/2

62574	RESU_SPECIAL_FEATURE_MASK			-	-
-	Additional RESU characteristics			DOUBLE	-
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.000	99999.0	7/2

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62575	RESU_SPECIAL_FEATURE_MASK_2			-	-
-	Additional RESU properties			DOUBLE	-
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.000	99999.0	7/2

62580	RESU_WORKING_PLANE			-	-
-	Working plane			DWORD	RESET
-					
-	-	1000,1000,1000,1000,1000,1000,1000,1000...	1	3	7/2

62600	TRAFO6_KINCLASS			-	-
-	Kinematics class			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1	1	2	7/2

62601	TRAFO6_AXES_TYPE			-	-
-	Axis type for transformation [axis no.]: 0...5			DWORD	POWER ON
-					
-	-	1,1,1,3,3,3	1	4	7/2

62602	TRAFO6_SPECIAL_KIN			-	-
-	Special kinematics type			DOUBLE	POWER ON
-					
-	-	1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0	-	-	7/2

62603	TRAFO6_MAIN_AXES			-	-
-	Basic axis identification			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1	1	12	7/2

62604	TRAFO6_WRIST_AXES			-	-
-	Identification of the hand axes			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1	1	6	7/2

62605	TRAFO6_NUM_AXES			-	-
-	Number of transformed axes			DWORD	POWER ON
-					
-	-	3,3,3,3,3,3	2	5	7/2

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62606	TRAFO6_A4PAR			-	-
-	Axis 4 parallel / antiparallel to the last basic axis			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0	2	5	7/2

62607	TRAFO6_MAIN_LENGTH_AB			-	-
-	Basic axis length A and B, n = 0...1			DOUBLE	POWER ON
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62608	TRAFO6_TX3P3_POS			-	-
-	Attachment of the hand (position share), n = 0...2			DOUBLE	POWER ON
-					
-	mm	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62609	TRAFO6_TX3P3_RPY			-	-
-	Attachment of the hand (rotation share), n = 0...2			DOUBLE	POWER ON
-					
-	Grad	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62610	TRAFO6_TFLWP_POS			-	-
-	Frame between hand pt. and flange coordinate system, n = 0...2			DOUBLE	POWER ON
-					
-	mm	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62611	TRAFO6_TFLWP_RPY			-	-
-	Frame between hand point and flange coordinate system, n = 0...2			DOUBLE	POWER ON
-					
-	Grad	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62612	TRAFO6_TIRORO_POS			-	-
-	Frame between foot pt. and int. coordinate system, n = 0...2			DOUBLE	POWER ON
-					
-	mm	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

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62613	TRAFO6_TIRORO_RPY			-	-
-	Frame between foot pt. and int. coordinate system, n = 0...2			DOUBLE	POWER ON
-					
-	Grad	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62614	TRAFO6_DHPAR4_5A			-	-
-	Parameter A for configuration of the hand, n = 0...1			DOUBLE	POWER ON
-					
-	mm	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62615	TRAFO6_DHPAR4_5D			-	-
-	Parameter D for configuration of the hand, n = 0...1			DOUBLE	POWER ON
-					
-	mm	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62616	TRAFO6_DHPAR4_4ALPHA			-	-
-	Parameter ALPHA for configuration of the hand, n = 0...1			DOUBLE	POWER ON
-					
-	Grad	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62617	TRAFO6_MAMES			-	-
-	Offset of math. to mech. zero point [axis no.]: 0...5			DOUBLE	POWER ON
-					
-	Grad	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62618	TRAFO6_AXES_DIR			-	-
-	Adjustm. of the phys. and math. dir. of rot. [axis no.]: 0...5			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1	-1	1	7/2

62619	TRAFO6_DIS_WRP			-	-
-	Medium distance between hand point and singularity			DOUBLE	POWER ON
-					
-	mm	10.0,10.0,10.0,10.0,10.0,10.0	-	-	7/2

62620	TRAFO6_AXIS_SEQ			-	-
-	Axis reorganization			DOUBLE	POWER ON
-					
-	mm	1,2,3,4,5,6	1	6	7/2

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62621	TRAFO6_SPIN_ON			-	-
-	Triangular or acme-screw spindles available			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0	0	1	7/2

62622	TRAFO6_SPIND_AXIS			-	-
-	Axis on which the triangular spindle has an effect, n = 0...2			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0	0	5	7/2

62623	TRAFO6_SPINDLE_RAD_G			-	-
-	Radius G for triangular axis, n = 0...2			DOUBLE	POWER ON
-					
-	mm	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62624	TRAFO6_SPINDLE_RAD_H			-	-
-	Radius H for triangular axis, n = 0...2			DOUBLE	POWER ON
-					
-	mm	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62625	TRAFO6_SPINDLE_SIGN			-	-
-	Sign for triangular spindle, n = 0...2			DWORD	POWER ON
-					
-	-	1,1,1,1,1,1,1,1	-1	1	7/2

62626	TRAFO6_SPINDLE_BETA			-	-
-	Angular offset for triangular spindles, n = 0...2			DOUBLE	POWER ON
-					
-	Grad	0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

62627	TRAFO6_TRP_SPIND_AXIS			-	-
-	Axes driven by acme spindle, n = 0...1			DWORD	POWER ON
-					
-	-	0,0,0,0,0,0	0	5	7/2

62628	TRAFO6_TRP_SPIND_LEN			-	-
-	Acme length, n = 0...3			DOUBLE	-
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0...	0.000	99999.0	7/2

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62629	**TRAFO6_VELCP**			-	-
-	Cartesian velocity [no.]: 0...2			DOUBLE	SOFORT
-					
-	mm/min	10000.00,10000.00, 10000.00,10000.00. ..	-	-	7/2

62630	**TRAFO6_ACCCP**			-	-
-	Cartesian accelerations [no.]: 0...2			DOUBLE	SOFORT
-					
-	m/s2	2.0,2.0,2.0,2.0,2.0,2 .0	-	-	7/2

62631	**TRAFO6_VELORI**			-	-
-	Orientation angle velocities [no.]: 0...2			DOUBLE	SOFORT
-					
-	Umdr./min	10.0,10.0,10.0,10.0, 10.0,10.0	-	-	7/2

62632	**TRAFO6_ACCORI**			-	-
-	Orientation angle accelerations [no.]: 0...2			DOUBLE	SOFORT
-					
-	Grad/s2	1.0,1.0,1.0,1.0,1.0,1 .0,1.0,1.0	-	-	7/2

62633	**TRAFO6_REDVELJOG**			-	-
-	Reduction factor velocity in JOG [no.]: 0...2			DOUBLE	SOFORT
-					
-	%	10.0,10.0,10.0,10.0, 10.0,10.0	-	-	7/2

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2.7.2 Axis-specific machine data compile cycles

63540	**CC_MASTER_AXIS**			-	-
-	Indicates the corresponding CC_Master axis for a CC_Slave axis			DWORD	RESET
-					
-	-	0,0,0,0,0,0,0,0	0	8	7/2

63541	**CC_POSITION_TOL**			-	-
-	Monitoring window (only applies to a CC_Slave axis)			DOUBLE	RESET
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	0	99999999.999	7/2

63542	**CC_PROTEC_MASTER**			-	-
-	Indicates the corresponding PMaster axis for a PSlave axis			DOUBLE	-
-					
-	-	0.0	0.000	99999.0	7/2

63543	**CC_PROTEC_OPTIONS**			-	-
-	Still missing			DOUBLE	-
-					
-	-	0.0	0.000	99999.0	7/2

63544	**CC_COLLISION_WIN**			-	-
-	Collision protection window			DOUBLE	RESET
-					
-	-	1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0	-	-	7/2

63545	**CC_OFFSET_MASTER**			-	-
-	Monitoring window (only applies to a CC_Slave axis)			DOUBLE	RESET
-					
-	-	0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	-	-	7/2

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Machine Data SIMODRIVE 3

3.1 Drive Machine data

Number	Identifier				Display filter		Reference
	Name				Data type		Active
System	Type	Rot/Lin	Unit	Default value	Minimal value	Maximum value	Protection

1000	CURRCTRL_CYCLE_TIME				D01, D05, EXP	QV: DS1	
	Current controller cycle				UNS.WORD	Power On	
810D	VSA/HSA	ROT/LIN	31,25 µs	5	2	8	2/4
840D	VSA/HSA	ROT/LIN	31,25 µs	4	2	4	2/4
P2 810D	HSA SLM VSA	ROT/LIN	31,25 µs	5	2	5	2/4
P2 840D	HSA SLM VSA	ROT/LIN	31,25 µs	4	1	4	2/4

1001	SPEEDCTRL_CYCLE_TIME				D01, D05, EXP	QV: DD2	
	Speed controller cycle				UNS.WORD	Power On	
810D	VSA/HSA	ROT/LIN	31,25 µs	10	2	32	2/4
840D	VSA/HSA	ROT/LIN	31,25 µs	4	2	16	2/4
P2 810D	HSA SLM VSA	ROT/LIN	31,25 µs	10	2	40	2/4
P2 840D	HSA SLM VSA	ROT/LIN	31,25 µs	4	1	16	2/4

1002	MONITOR_CYCLE_TIME				D05, D02, EXP	QV: DB1	
	Monitoring cycle				UNS.WORD	Power On	
810D	VSA/HSA	ROT/LIN	31,25 µs	640	128	3200	2/4
840D	VSA/HSA	ROT/LIN	31,25 µs	3200	128	3200	2/4
P2 810D	HSA SLM VSA	ROT/LIN	31,25 µs	3200	128	3200	2/4
P2 840D	HSA SLM VSA	ROT/LIN	31,25 µs	3200	128	3200	2/4

1003	STS_CONFIG				EXP	QV: DS1	
	Configuration STS				UNS.WORD	Power On	
810D	VSA/HSA	ROT/LIN	-	330	0	ffff	0/0
840D	VSA/HSA	ROT/LIN	-	330	0	7f0	0/0
P2 810D	HSA SLM VSA	ROT/LIN	-	0x0330	0x0000	0x07f0	0/0
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0330	0x0000	0x07f0	0/0

1004	CTRL_CONFIG				EXP	QV: DD2	
	Configuration structure				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	2115	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x3115	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x3115	2/4

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1005	**ENC_RESOL_MOTOR**				D06	**QV:** DG1, DM1	
	Motor measuring system encoder increments				UNS.WORD	Power On	
810D	VSA/HSA	ROT/LIN	-	2048	1	8192	2/4
840D	VSA/HSA	ROT/LIN	-	2048	1	65535	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	2048	1	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	2048	1	65535	2/4

1007	**ENC_RESOL_DIRECT**				D06	**QV:** DG1	
	Encoder increments of the direct measuring system				UNS.DWORD	Power On	
810D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	2147483647	2/4

1008	**ENC_PHASE_ERROR_CORRECTION**				EXP, D06	**QV:** DG1	
	Encoder phase error compensation IM				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	degrees	0.0000	-20.0000	20.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	degrees	0.000000	-20.000000	20.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	degrees	0.000000	-20.000000	20.000000	2/4

1011	**ACTUAL_VALUE_CONFIG**				D06	**QV:** DG1	
	Configuration of the actual value sensing IM				UNS.WORD	Power On	
810D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	f1ff	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xf1ff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xf1ff	2/4

1012	**FUNC_SWITCH**				D01, D02, D03	**QV:** DB1	
	Function switch				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	0x00B5	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0x0004	0x0000	0x0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0004	0x0000	0x00b5	2/4

1013	**ENABLE_STAR_DELTA**				D05	**QV:** DE1	
	Enable star/delta changeover				UNS.WORD	Power On	
840D	HSA	ROT	-	0	0	7	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	7	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	7	2/4

1014	**UF_MODE_ENABLE**				D04, EXP	**QV:** DE1	
	Activate V/f operation				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	1	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	1	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	1	2/4

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1015	PEMSD_MODE_ENABLE				-	QV: DE1	
	Activate PE-MSD				UNS.WORD	Power On	
840D	VSA	ROT/LIN	-	0	0	1	2/4
P2 810D	VSA SLM	ROT/LIN	-	0	0	1	4/4
P2 840D	VSA SLM	ROT/LIN	-	0	0	1	4/4

1016	COMMUTATION_ANGLE_OFFSET				-	QV: DL1	
	Commutating angle offset				FLOAT	Power On	
840D	VSA	ROT/LIN	degrees	0.0000	-360.0000	360.0000	2/4
P2 810D	VSA SLM	ROT/LIN	degrees	0.000000	-360.000000	-360.000000	2/4
P2 840D	VSA SLM	ROT/LIN	degrees	0.000000	-360.000000	360.000000	2/4

1017	STARTUP_ASSISTANCE				D04	QV: DL1	
	Setting-up aid				WORD	Immediately	
840D	VSA	ROT/LIN	-	0	-1	1	2/4
P2 810D	VSA SLM	ROT/LIN	-	0	-1	1	2/4
P2 840D	VSA SLM	ROT/LIN	-	0	-1	1	2/4

1019	CURRENT_ROTORPOS_IDENT				-	QV: DM1, DL1	
	Current rotor position identification				FLOAT	Immediately	
840D	VSA	ROT	%	50.0000	0.0000	100.0000	2/4
P2 810D	VSA SLM	ROT	%	50.000000	0.000000	100.000000	2/4
P2 840D	VSA SLM	ROT	%	50.000000	0.000000	100.000000	2/4

1019	CURRENT_ROTORPOS_IDENT				-	QV: DM1, DL1	
	Current rotor position identification				FLOAT	Immediately	
840D	VSA	LIN	%	12.0000	0.0000	100.0000	2/4
P2 840D	SLM	LIN	%	12.000000	-	-	2/4

1020	MAX_TURN_ROTORPOS_IDENT				-	QV: DM1, DL1	
	Maximum rotation of rotor position identification				FLOAT	Immediately	
840D	VSA	ROT	degrees	10.0000	0.0000	90.0000	2/4
P2 810D	VSA SLM	ROT	degrees	10.000000	0.000000	90.000000	2/4
P2 840D	VSA SLM	ROT	degrees	10.000000	0.000000	90.000000	2/4

1020	MAX_MOVE_ROTORPOS_IDENT				-	QV: DM1, DL1	
	Maximum rotation of rotor position identification				FLOAT	Immediately	
840D	VSA	LIN	mm	5.0000	0.0000	30.0000	2/4
P2 840D	SLM	LIN	mm	5.000000	-	30.000000	2/4

1021	ENC_ABS_TURNS_MOTOR				D06	QV: DG1	
	Multiturn resolution absolute value encoder motor				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	4096	0	65535	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	4096	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	4096	0	65535	2/4

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1022	**ENC_ABS_RESOL_MOTOR**				D06	**QV:** DG1	
	Measuring steps of the motor absolute track				UNS.DWORD	Power On	
810D	VSA/HSA	ROT/LIN	-	8192	512	65535	2/4
840D	VSA/HSA	ROT/LIN	-	8192	0	2147483647	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	8192	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	8192	0	2147483647	2/4

1023	**ENC_ABS_DIAGNOSIS_MOTOR**				D06	**QV:** DG1	
	Diagnosis measuring circuit motor absolute track				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	49151	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	49151	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0		2/4

1024	**DIVISION_LIN_SCALE**				-	**QV:** DG1, DL1	
	Grid spacing motor measuring system				UNS.DWORD	Power On	
P2 810D	VSA SLM	ROT/LIN	nm	20000	0	2147483647	2/4
P2 840D	VSA SLM	ROT/LIN	nm	20000	0	2147483647	2/4

1024	**DIVISION_LIN_SCALE**				-	**QV:** DG1, DL1	
	Grid spacing, motor measuring system				UNS.DWORD	Power On	
840D	VSA	LIN	Nm	20000	0	2147483647	2/4

1025	**SERIAL_NO_ENCODER**				EXP, D06	**QV:** DG1	
	Serial number motor measuring system				UNS.DWORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	1/1
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	1/1
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	1/1

1027	**ENC_CONFIG**				D06	**QV:** DG1	
	Configuration for encoder IM				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xffff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xffff	2/4

1028	**NO_TRANSMISSION_BITS**				D06	**QV:** DG1	
	IM frame langth SSI				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	25	0	25	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	25	0	25	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	25	0	25	2/4

1029	**DELAY_ROTORPOS_IDENT**				-	**QV:** FBU	
	Meas. delay rotor position identification				FLOAT	Immediately	
840D	VSA	ROT/LIN	ms	0.0000	0.0000	100.0000	2/4
P2 810D	VSA SLM	ROT/LIN	ms	0	0	100.0	2/4
P2 840D	VSA SLM	ROT/LIN	ms	0	0	100.0	2/4

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1030	ACTUAL_VALUE_CONFIG_DIRECT				D06	QV: DG1	
	Configuration actual-value sensing DM				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	c018	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xc018	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xc018	2/4

1031	ENC_ABS_TURNS_DIRECT				D06	QV: DG1	
	Multiturn resolution of the absolute encoder DM				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	4096	0	65535	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	4096	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	4096	0	65535	2/4

1032	ENC_ABS_RESOL_DIRECT				D06	QV: DG1	
	Measuring steps of the absolute track DM				UNS.DWORD	Power On	
810D	VSA/HSA	ROT/LIN	-	8192	0	65535	2/4
840D	VSA/HSA	ROT/LIN	-	8192	0	2147483647	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	8192	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	8192	0	2147483647	2/4

1033	ENC_ABS_DIAGNOSIS_DIRECT				D06	QV: DG1	
	Diagnosis dir. measuring system absolute track				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	64767	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	64767	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	64767	2/4

1034	DIVISION_LIN_SCALE_DM				-	QV: DL1	
	Grid spacing direct measuring system				UNS.DWORD	Power On	
P2 810D	VSA SLM	ROT/LIN	nm	20000	0	2147483647	2/4
P2 840D	VSA SLM	ROT/LIN	nm	20000	0	2147483647	2/4

1034	DIVISION_LIN_SCALE_DM				-	QV: DL1	
	Grid spacing, direct measuring system				UNS.DWORD	Power On	
840D	VSA	LIN	Nm	20000	0	2147483647	2/4

1037	ENC_CONFIG_DIRECT				D06	QV: DG1	
	Configuration for encoder DM				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xffff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xffff	2/4

1038	SERIAL_NO_ENCODER_DM				EXP, D06	QV: DG1	
	Serial no. for direct meas. System				UNS.DWORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	1/1
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	1/1
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	1/1

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1041	**NO_TRANSMISSION_BITS_DM**				D06	**QV:** DG1	
	DM frame length SSI				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	25	0	25	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	25	0	25	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	25	0	25	2/4

1049	**EMF_BREAK_ENABLE**				-	**QV:**	
	Activate EMF brake				UNS.WORD	Power On	
P2 810D	HSA SLM VSA	ROT/LIN	-	2	0	0	4/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	2	4/4

1055	**MARKER_DIST**				D06	**QV:** DM1	
	Distance of reference marks				FLOAT	Power On	
P2 810D	SLM VSA	ROT	degrees	20.000000	0.000000	90.000000	2/4
P2 840D	SLM VSA	ROT	degrees	20.000000	0.000000	90.000000	2/4

1055	**MARKER_DIST**				D06	**QV:** DM1	
	Distance of reference marks				FLOAT	Power On	
P2 840D	SLM	LIN	mm	20.000000	-	1000.000000	2/4

1056	**MARKER_DIST_DIFF**				D06	**QV:** DM1	
	Difference between distances				FLOAT	Power On	
P2 810D	SLM VSA	ROT	degrees	0.020000	0.000000	45.000000	2/4
P2 840D	SLM VSA	ROT	degrees	0.020000	0.000000	45.000000	2/4

1056	**MARKER_DIST_DIFF**				D06	**QV:** DM1	
	Difference in distances				FLOAT	Power On	
P2 840D	SLM	LIN	mm	0.020000	-	500.000000	2/4

1060	**ACTIVATE_BRAKE_CONTROL**				D02	**QV:**	
	Activation of brake control				UNS.WORD	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	1	2/4

1061	**BRAKE_RELEASE_TIME**				D02	**QV:**	
	Brake release time				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	ms	600.000000	10.000000	10000.000000	2/4

1062	**BREAK_CLOSE_SPEED**				D02	**QV:**	
	Speed close holding brake				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT	1/min	500.000000	0.000000	100000.000000	2/4

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1062	BREAK_CLOSE_SPEED				D02	QV:	
	Motor speed closing holding brake				FLOAT	Immediately	
P2 840D	SLM	LIN	1/min	10.000000	-	-	2/4

1063	BRAKE_DELAY_TIME				D02	QV:	
	Brake delay time				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	ms	400.000000	10.000000	600000.000000	2/4

1064	CONTROLLER_DISABLE_TIME				D02	QV:	
	Servo disable time				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	ms	600.000000	10.000000	10000.000000	2/4

1070	RLI_RAMP_TIME				-	QV: DM1	
	RLI current setpoint ramp time				FLOAT	Immediately	
P2 810D	VSA SLM	ROT/LIN	ms	500	0.0	10000.0	1/1
P2 840D	VSA SLM	ROT/LIN	ms		0.0		1/1

1071	RLI_WAIT_TIME				-	QV: DM1	
	RLI waiting time				FLOAT	Immediately	
P2 810D	VSA SLM	ROT/LIN	ms	20	0.0	10000.0	1/1
P2 840D	VSA SLM	ROT/LIN	ms	20	0.0	10000.0	1/1

1072	RLI_AMOUNT				-	QV: DM1	
	RLI numer of measurements				UNS.WORD	Immediately	
P2 810D	VSA SLM	ROT/LIN	-	12	6	60	1/1
P2 840D	VSA SLM	ROT/LIN	-	12	6	60	1/1

1073	POSS_TURN_ROTORPOS_IDENT				-	QV: DM1	
	Perm. turn of rotor position ident				FLOAT	Immediately	
P2 810D	SLM VSA	ROT	degrees	1.000000	0.000000	90.000000	2/4
P2 840D	SLM VSA	ROT	degrees	1.000000	0.000000	90.000000	2/4

1073	POSS_MOVE_ROTORPOS_IDENT				-	QV: DM1	
	Permitted rotor pos. ident.				FLOAT	Immediately	
P2 840D	SLM	LIN	mm	0.100000	-	30.000000	2/4

1074	ROTORPOS_OFFSET				-	QV: DM1	
	Rotor position adaption				FLOAT	Immediately	
P2 810D	HSA VSA SLM	ROT	degrees	0.000000	0.000000	360.000000	2/4
P2 840D	HSA VSA SLM	ROT	degrees	0.000000	0.000000	360.000000	2/4

1074	ROTORPOS_OFFSET				-	QV: DM1	
	Rotor position adaption				FLOAT	Immediately	
P2 840D	SLM	LIN	mm	0.000000	-	1000.000000	2/4

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1075	**ALGORITHM_ROTORPOS_IDENT**				-	**QV:** IAD, DM1	
	Rotor position identification procedure				UNS.WORD	Immediately	
840D	VSA	ROT/LIN	-	1	1	3	1/1
P2 810D	VSA SLM	ROT/LIN	-	1	1	6	1/1
P2 840D	VSA SLM	ROT/LIN	-	1	1	6	1/1

1076	**FACTOR_INERTIA**				D05	**QV:** DM1, DL1	
	Load moment of inertia factor				FLOAT	Immediately	
840D	VSA	ROT	kgm²	0.0000	0.0000	500.0000	1/1
P2 810D	VSA SLM	ROT	kgm²	0.0	-500.0	500.0	1/1
P2 840D	VSA SLM	ROT	kgm²	0.0	-500.0	500.0	1/1

1076	**FACTOR_MASS**				D05	**QV:** DM1, DL1	
	Load mass factor				FLOAT	Immediately	
840D	VSA	LIN	kg	0.0000	0.0000	10000.0000	1/1
P2 840D	SLM	LIN	kg	-	-	10000.0	1/1

1077	**RLI_INTEGRATOR_TIME**				-	**QV:**	
	Integral action time for RLI controller				FLOAT	Immediately	
840D	VSA	ROT/LIN	ms	3.7000	0.0000	500.0000	1/1
P2 810D	VSA SLM	ROT/LIN	ms	3.7	0.0	500.0	1/1
P2 840D	VSA SLM	ROT/LIN	ms	3.7	0.0	500.0	1/1

1078	**MAX_TIME_ROTORPOS_ID**				-	**QV:**	
	Time monitoring of rotor position ID				FLOAT	Immediately	
840D	VSA	ROT/LIN	ms	800.0000	100.0000	10000.0000	1/1
P2 810D	VSA SLM	ROT/LIN	ms	800.0	100.0	100.0	1/1
P2 840D	VSA SLM	ROT/LIN	ms	800.0	100.0	10000.0	1/1

1096	**RED_TORQUE_LIMIT_GS_ACTIV**				D05, D02	**QV:** DE1	
	Red. max. torque with gen. stop active				UNS.WORD	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	7	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	7	2/4

1097	**RED_TORQUE_LIMIT_GENSTOP**				D05, D02	**QV:** DE1	
	Red. max. torque with gen. Stop				WORD	Immediately	
P2 810D	HSA VSA SLM	ROT/LIN	%	80	0	100	2/4
P2 840D	HSA VSA SLM	ROT/LIN	%	80	0	100	2/4

1098	**INVERTER_MAX_CURR_DERAT**				D05	**QV:** DM1	
	PS derating limit current				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	A	200.0000	0.0000	500.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	A	200.0	0.0	500.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	A	200.0	0.0	500.0	2/4

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1099	INVERTER_DERATING_FACT				D05	QV: DE1, DM1	
	PS limit current derating factor				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	%	0.0000	0.0000	100.0000	2/4
P2 810D	PROT_KEYS WITCH_3	LIN	%	0.000000	0.000000	100.000000	2/4
P2 840D	PROT_KEYS WITCH_3	LIN	%	0.000000	0.000000	100.000000	2/4

1100	PWM_FREQUENCY				D01, D05, EXP	QV: DS1	
	Pulse-width modulation frequency				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	Hz	4000.0000	2000.0000	8000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	100.000000	100.000000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	4000.000000	2000.000000	8000.000000	2/4

1101	CTRLOUT_DELAY				D01, D05, EXP	QV: DS1	
	Computation deadtime of the current control loop				WORD	Power On	
840D	VSA/HSA	ROT/LIN	µs	62	0	124	2/4
P2 810D	HSA SLM VSA	ROT/LIN	µs	110	0	124	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µs	32	0	124	2/4

1102	MOTOR_CODE				D04, D05	QV: DM1	
	Motor code number				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

1103	MOTOR_NOMINAL_CURRENT				D05	QV: DM1, DÜ1	
	Motor rated current				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	A	0.0000	0.0000	500.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	A	0.000000	0.000000	500.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	A	0.000000	0.000000	500.000000	2/4

1104	MOTOR_MAX_CURRENT				D05	QV: DM1, DÜ1	
	Maximum motor current				FLOAT	Power On	
810D	VSA	ROT/LIN	A	0.0000	0.0000	500.0000	2/4
840D	VSA	ROT/LIN	A	0.0400	0.0000	500.0000	2/4
P2 810D	VSA SLM	ROT/LIN	A	0.040000	0.000000	500.000000	2/4
P2 840D	VSA SLM	ROT/LIN	A	0.040000	0.000000	500.000000	2/4

1105	MOTOR_MAX_CURRENT_REDUCTION				D05, D02	QV: DÜ1	
	Reducing the maximum motor current				WORD	Immediately	
840D	VSA	ROT/LIN	%	100	0	100	2/4
P2 810D	VSA SLM	ROT/LIN	%	100	0	100	2/4
P2 840D	VSA SLM	ROT/LIN	%	100	0	100	2/4

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1106	**INVERTER_CODE**				D04, D05	**QV:** DM1	
	Power section code number				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xffff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xffff	2/4

1107	**INVERTER_MAX_CURRENT**				D05	**QV:** DM1	
	Transistor limiting current				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	A	200.0000	1.0000	500.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	A	200.000000	1.000000	500.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	A	200.000000	1.000000	500.000000	2/4

1108	**INVERTER_MAX_THERMAL_CURR**				D05	**QV:** DM1	
	Power module limiting current				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	A	200.0000	1.0000	500.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	A	200.000000	1.000000	500.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	A	200.000000	1.000000	500.000000	2/4

1109	**INVERTER_MAX_S6_CURRENT**				D05	**QV:** DM1	
	Power module limiting current S6				FLOAT	Power On	
840D	HSA	ROT	A	200.0000	1.0000	500.0000	2/4
P2 810D	HSA	LIN	A	200.000000	1.000000	500.000000	2/4
P2 840D	HSA	LIN	A	200.000000	1.000000	500.000000	2/4

1111	**INVERTER_RATED_CURRENT**				D05	**QV:** DM1	
	Rated power module current				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	A	200.0000	1.0000	500.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	A	200.000000	1.000000	500.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	A	200.000000	1.000000	500.000000	2/4

1112	**NUM_POLE_PAIRS**				D05	**QV:** DM1	
	Motor pole pair number				UNS.WORD	Power On	
810D	VSA	ROT/LIN	-	0	0	4	2/4
840D	VSA	ROT/LIN	-	0	0	4096	2/4
P2 810D	VSA SLM	ROT/LIN	-	0	0	4096	2/4
P2 840D	VSA SLM	ROT/LIN	-	0	0	4096	2/4

1113	**TORQUE_CURRENT_RATIO**				D05	**QV:** DM1, DL1	
	Torque constant				FLOAT	Power On	
810D	VSA	ROT	Nm/A	0.0000	0.0000	5.0000	2/4
840D	VSA	ROT	Nm/A	0.0000	0.0000	300.0000	2/4
P2 810D	VSA SLM	ROT	Nm/A	0.000000	0.000000	300.000000	2/4
P2 840D	VSA SLM	ROT	Nm/A	0.000000	0.000000	300.000000	2/4

1113	**FORCE_CURRENT_RATIO**				D05	**QV:** DM1, DL1	
	Force constant				FLOAT	Power On	
840D	VSA	LIN	N/A	0.0000	0.0000	2000.0000	2/4
P2 840D	SLM	LIN	N/A	-	-	2000.000000	2/4

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1114	EMF_VOLTAGE				D05	QV: DM1, DL1	
	Voltage constant				FLOAT	Power On	
810D	VSA	ROT	V	0.0000	0.0000	300.0000	2/4
840D	VSA	ROT	V	0.0000	0.0000	10000.0000	2/4
P2 810D	VSA SLM	ROT/LIN	V	0.000000	0.000000	10000.000000	2/4
P2 840D	VSA SLM	ROT/LIN	V	0.000000	0.000000	10000.000000	2/4

1114	EMF_VOLTAGE				D05	QV: DM1, DL1	
	Voltage constant				FLOAT	Power On	
840D	VSA	LIN	Vs/m	0.0000	0.0000	10000.0000	2/4

1115	ARMATURE_RESISTANCE				D05	QV: DM1	
	Armature resistance				FLOAT	Power On	
810D	VSA	ROT/LIN	Ohm	0.0000	0.0000	20.0000	2/4
840D	VSA	ROT/LIN	Ohm	0.0000	0.0000	1000.0000	2/4
P2 810D	VSA SLM	ROT/LIN	Ohm	0.000000	0.000000	1000.000000	2/4
P2 840D	VSA SLM	ROT/LIN	Ohm	0.000000	0.000000	1000.000000	2/4

1116	ARMATURE_INDUCTANCE				D05	QV: DM1	
	Armature inductance				FLOAT	Power On	
840D	VSA	ROT/LIN	mH	0.0000	0.0000	300.0000	2/4
P2 810D	VSA SLM	ROT/LIN	mH	0.000000	0.000000	300.000000	2/4
P2 840D	VSA SLM	ROT/LIN	mH	0.000000	0.000000	300.000000	2/4

1117	MOTOR_INERTIA				D05	QV: DM1, DL1	
	Motor moment of inertia				FLOAT	Immediately	
840D	VSA/HSA	ROT	kgm²	0.0000	0.0000	32.0000	2/4
P2 810D	HSA SLM VSA	ROT	kgm²	0.000000	0.000000	32.000000	2/4
P2 840D	HSA SLM VSA	ROT	kgm²	0.000000	0.000000	32.000000	2/4

1117	MOTOR_MASS				D05	QV: DM1, DL1	
	Motor mass				FLOAT	Immediately	
840D	VSA/HSA	LIN	kg	0.0000	0.0000	500.0000	2/4
P2 840D	SLM	LIN	kg	-	-	500.000000	2/4

1118	MOTOR_STANDSTILL_CURRENT				D05	QV: DM1	
	Motor standstill current				FLOAT	Power On	
840D	VSA	ROT/LIN	A	0.0000	0.0000	500.0000	2/4
P2 810D	VSA SLM	ROT/LIN	A	0.000000	0.000000	500.000000	2/4
P2 840D	VSA SLM	ROT/LIN	A	0.000000	0.000000	500.000000	2/4

1119	SERIES_INDUCTANCE				D05	QV: DM1	
	Inductance of the series reactor				FLOAT	Power On	
840D	HSA	ROT	mH	0.0000	0.0000	65.0000	2/4
P2 810D	HSA	LIN	mH	0.000000	0.000000	65.000000	2/4
P2 840D	HSA	LIN	mH	0.000000	0.000000	65.000000	2/4

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1120	**CURRCTRL_GAIN**				D01, EXP	**QV:** DS1	
	Current controller proportional gain				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	V/A	10.0000	0.0000	10000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	V/A	10.000000	0.000000	10000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V/A	10.000000	0.000000	10000.000000	2/4

1121	**CURRCTRL_INTEGRATOR_TIME**				D01, EXP	**QV:** DS1	
	Current controller integral action time				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	µs	2000.0000	0.0000	8000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	µs	2000.000000	0.000000	8000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µs	2000.000000	0.000000	8000.000000	2/4

1122	**MOTOR_LIMIT_CURRENT**				D05	**QV:** DS1	
	Motor limit current				FLOAT	Power On	
840D	VSA	ROT/LIN	A	0.0000	0.0000	500.0000	2/4
P2 840D	VSA SLM	ROT/LIN	A	0.0	0.0	500.0	2/4

1124	**CURRCTRL_REF_MODEL_DELAY**				D01, EXP	**QV:** DS1	
	Balancing the reference model current				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	-	0.0000	0.0000	1.0000	2/4
840D	VSA/HSA	ROT/LIN	-	0.5000	0.0000	1.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	1.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	1.000000	2/4

1125	**UF_MODE_RAMP_TIME_1**				D04, EXP	**QV:** DE1	
	Ramp-up time 1 in V/f operation				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	s	5.0000	0.0100	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	s	5.000000	0.010000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	s	5.000000	0.010000	100.000000	2/4

1126	**UF_MODE_RAMP_TIME_2**				D04, EXP	**QV:** DE1	
	Ramp-up time 2 in V/f operation				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	s	5.0000	0.0100	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	s	5.000000	0.010000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	s	5.000000	0.010000	100.000000	2/4

1127	**UF_VOLTAGE_AT_F0**				D04, D05, EXP	**QV:** DE1	
	Voltage at f=0 in V/f operation				FLOAT	Immediately	
840D	HSA	ROT	V	2.0000	0.0000	20.0000	2/4
P2 810D	HSA	LIN	V	2.000000	0.000000	20.000000	2/4
P2 840D	HSA	LIN	V	2.000000	0.000000	20.000000	2/4

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1128	OPT_LOAD_ANGEL				EXP, D05	QV: FBU, POS3	
	Optimum load angle				FLOAT	Immediately	
840D	VSA	ROT/LIN	degrees	90.0000	90.0000	135.0000	2/4
P2 810D	VSA SLM	ROT/LIN	degrees	90.000000	90.000000	135.000000	2/4
P2 840D	VSA SLM	ROT/LIN	degrees	90.000000	90.000000	135.000000	2/4

1129	POWER_FACTOR_COS_PHI				D05	QV: DM1	
	Cos phi power factor				FLOAT	Power On	
840D	HSA	ROT	-	0.8000	0.0000	1.0000	2/4
P2 810D	HSA	LIN	-	0.800000	0.000000	1.000000	2/4
P2 840D	HSA	LIN	-	0.800000	0.000000	1.000000	2/4

1130	MOTOR_NOMINAL_POWER				D05	QV: DM1	
	Rated motor output				FLOAT	Power On	
840D	HSA	ROT	kW	0.0000	0.0000	1500.0000	2/4
P2 810D	HSA	LIN	kW	0.000000	0.000000	1500.000000	2/4
P2 840D	HSA	LIN	kW	0.000000	0.000000	1500.000000	2/4

1132	MOTOR_NOMINAL_VOLTAGE				D05	QV: DM1	
	Rated motor voltage				FLOAT	Power On	
810D	HSA	ROT	V	0.0000	0.0000	5000.0000	2/4
840D	HSA	ROT	V	380.0000	0.0000	5000.0000	2/4
P2 810D	HSA	LIN	V	380.000000	0.000000	5000.000000	2/4
P2 840D	HSA	LIN	V	380.000000	0.000000	5000.000000	2/4

1134	MOTOR_NOMINAL_FREQUENCY				D05	QV: DM1	
	Rated motor frequency				FLOAT	Power On	
810D	HSA	ROT	Hz	0.0000	0.0000	3000.0000	2/4
840D	HSA	ROT	Hz	50.0000	0.0000	3000.0000	2/4
P2 810D	HSA	LIN	Hz	50.000000	0.000000	3000.000000	2/4
P2 840D	HSA	LIN	Hz	50.000000	0.000000	3000.000000	2/4

1135	MOTOR_NOLOAD_VOLTAGE				D05	QV: DM1	
	Motor no-load voltage				FLOAT	Immediately	
840D	HSA	ROT	V	0.0000	0.0000	500.0000	2/4
P2 810D	HSA	LIN	V	0.000000	0.000000	500.000000	2/4
P2 840D	HSA	LIN	V	0.000000	0.000000	500.000000	2/4

1136	MOTOR_NOLOAD_CURRENT				D05	QV: DM1	
	Motor no-load current				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	A	0.0000	0.0000	500.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	A	0.000000	0.000000	500.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	A	0.000000	0.000000	500.000000	2/4

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1137	**STATOR_COLD_RESISTANCE**				D05	**QV:** DM1	
	Cold stator resistance				FLOAT	Immediately	
840D	HSA	ROT	Ohm	0.0000	0.0000	120.0000	2/4
P2 810D	HSA	LIN	Ohm	0.000000	0.000000	120.000000	2/4
P2 840D	HSA	LIN	Ohm	0.000000	0.000000	120.000000	2/4

1138	**ROTOR_COLD_RESISTANCE**				D05	**QV:** DM1	
	Cold rotor resistance				FLOAT	Immediately	
840D	HSA	ROT	Ohm	0.0000	0.0000	120.0000	2/4
P2 810D	HSA	LIN	Ohm	0.000000	0.000000	120.000000	2/4
P2 840D	HSA	LIN	Ohm	0.000000	0.000000	120.000000	2/4

1139	**STATOR_LEAKAGE_REACTANCE**				D05	**QV:** DM1	
	Stator leakage reactance				FLOAT	Immediately	
840D	HSA	ROT	Ohm	0.0000	0.0000	100.0000	2/4
P2 810D	HSA	LIN	Ohm	0.000000	0.000000	100.000000	2/4
P2 840D	HSA	LIN	Ohm	0.000000	0.000000	100.000000	2/4

1140	**ROTOR_LEAKAGE_REACTANCE**				D05	**QV:** DM1	
	Rotor leakage reactance				FLOAT	Immediately	
840D	HSA	ROT	Ohm	0.0000	0.0000	100.0000	2/4
P2 810D	HSA	LIN	Ohm	0.000000	0.000000	100.000000	2/4
P2 840D	HSA	LIN	Ohm	0.000000	0.000000	100.000000	2/4

1141	**MAGNETIZING_REACTANCE**				D05	**QV:** DM1	
	Magnetizing reactance				FLOAT	Immediately	
840D	HSA	ROT	Ohm	0.0000	0.0000	1000.0000	2/4
P2 810D	HSA	LIN	Ohm	0.000000	0.000000	1000.000000	2/4
P2 840D	HSA	LIN	Ohm	0.000000	0.000000	1000.000000	2/4

1142	**FIELD_WEAKENING_SPEED**				D05	**QV:** DM1, DD2	
	Threshold speed for field weakening				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	1/min	0.0000	0.0000	50000.0000	2/4
840D	VSA/HSA	ROT/LIN	1/min	0.0000	0.0000	100000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4

1143	**LH_CURVE_UPPER_SPEED**				-	**QV:** DM1, DD2	
	Upper speed for the L_h characteristic				FLOAT	Power On	
810D	HSA	ROT	1/min	0.0000	0.0000	50000.0000	2/4
840D	HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4
P2 810D	HSA	LIN	1/min	0.000000	0.000000	100000.000000	2/4
P2 840D	HSA	LIN	1/min	0.000000	0.000000	100000.000000	2/4

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1144	LH_CURVE_GAIN				-	QV: DM1, DD2	
	Gain factor of the L_h characteristic				FLOAT	Power On	
840D	HSA	ROT	%	100.0000	100.0000	500.0000	2/4
P2 810D	HSA	LIN	%	100.000000	100.000000	500.000000	2/4
P2 840D	HSA	LIN	%	100.000000	100.000000	500.000000	2/4

1145	STALL_TORQUE_REDUCTION				D05	QV: DM1, DÜ1	
	Stall torque reduction factor				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	%	100.0000	5.0000	1000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	1000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	1000.000000	2/4

1146	MOTOR_MAX_ALLOWED_SPEED				D05	QV: DM1, DÜ1, DL1	
	Maximum motor speed				FLOAT	Power On	
810D	VSA/HSA	ROT	1/min	0.0000	0.0000	50000.0000	2/4
840D	VSA/HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4

1146	MOTOR_MAX_ALLOWED_SPEED				D05	QV: DM1, DÜ1, DL1	
	Maximum motor speed				FLOAT	Power On	
840D	VSA/HSA	LIN	1/min	0.0000	0.0000	100000.0000	2/4

1147	SPEED_LIMIT				D05, D02	QV: DÜ1, DL1	
	Motor speed limit				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	7000.0000	0.0000	50000.0000	2/4
840D	VSA/HSA	ROT	1/min	7000.0000	0.0000	100000.0000	2/4
P2 810D	HSA SLM VSA	ROT	1/min	7000.000000	0.000000	100000.000000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	7000.000000	0.000000	100000.000000	2/4

1147	SPEED_LIMIT				D05, D02	QV: DÜ1, DL1	
	Maximum permissible motor speed				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	120.0000	0.0000	100000.0000	2/4
P2 840D	SLM	LIN	1/min	120.000000	-	-	2/4

1148	ACTUAL_STALL_POWER_SPEED				D04	QV: DD1	
	Threshold speed of pull-out power				FLOAT	Immediately	
840D	HSA	ROT	1/min	0.0000	-100000.0000	100000.0000	2/4
P2 810D	HSA	LIN	1/min	0.000000	-100000.000000	100000.000000	2/4
P2 840D	HSA	LIN	1/min	0.000000	-100000.000000	100000.000000	2/4

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1149	**RELUCT_TORQUE_RATIO**				D05	**QV:** FBU	
	Reluctance torque constant				FLOAT	Immediately	
840D	VSA	ROT/LIN	mH	0.0000	0.0000	300.0000	2/4
P2 810D	VSA SLM	ROT/LIN	mH	0.000000	0.000000	300.000000	2/4
P2 840D	VSA SLM	ROT/LIN	mH	0.000000	0.000000	300.000000	2/4

1150	**FIELDCTRL_GAIN**				D01, EXP	**QV:** DS1	
	Flux controller P-gain				FLOAT	Immediately	
840D	HSA	ROT	A/(Vs)	400.0000	0.0000	100000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	A/(Vs)	400.000000	0.000000	100000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	A/(Vs)	400.000000	0.000000	100000.000000	2/4

1151	**FIELDCTRL_INTEGRATOR_TIME**				D01, EXP	**QV:** DS1	
	Flux controller integral-action time				FLOAT	Immediately	
840D	HSA	ROT	ms	10.0000	0.0000	500.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	ms	10.000000	0.000000	500.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	10.000000	0.000000	500.000000	2/4

1159	**FLUX_MODEL_CORRECTION**				D01, EXP, D04	**QV:**	
	Flow model correction				UNS.WORD	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	-	1	0	1	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	1	0	1	2/4

1160	**FLUX_ACQUISITION_SPEED**				D01, EXP	**QV:** DS1	
	Threshold speed for flux sensing				FLOAT	Immediately	
810D	HSA	ROT	1/min	1500.0000	200.0000	50000.0000	2/4
840D	HSA	ROT	1/min	1500.0000	200.0000	100000.0000	2/4
P2 810D	HSA	LIN	1/min	1500.000000	200.000000	100000.000000	2/4
P2 840D	HSA	LIN	1/min	1500.000000	200.000000	100000.000000	2/4

1161	**FIXED_LINK_VOLTAGE**				D02	**QV:** DS1	
	Fixed DC link voltage				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	V	0	0	700	2/4
P2 810D	HSA SLM VSA	ROT/LIN	V	0	0	700	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	0	0	700	2/4

1162	**LINK_VOLTAGE_MIN**				D02	**QV:** DE1	
	Minimum DC link voltage				UNS.WORD	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	V	0	0	800	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	0	0	800	2/4

1163	**LINK_VOLTAGE_MAX**				D02	**QV:** DE1	
	Maximum DC link voltage				UNS.WORD	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	V	800	0	800	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	800	0	800	2/4

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1164	LINK_VOLTAGE_SPEED_SETUP				D02, EXP	QV:	
	only UZWK monitoring from motor speed				FLOAT	Immediately	
P2 810D	HSA SLM VSA	ROT	1/min	0.000000	0.000000	100000.000000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	0.000000	0.000000	100000.000000	2/4

1164	LINK_VOLTAGE_SPEED_SETUP				D02, EXP	QV:	
	only UZWK monitoring from motor speed				FLOAT	Immediately	
P2 840D	SLM	LIN	1/min	0.000000	-	-	2/4

1165	DYN_MANAG_ENABLE				D02	QV: DE1	
	Dyn. energy management active				UNS.WORD	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	3	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	3	2/4

1166	MOTDIAG_GROUND_PROTECTION				D02	QV:	
	Ground fault detection active				UNS.WORD	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	3	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	3	2/4

1167	CURRENT_GROUND_IDENT				-	QV:	
	Response threshold for ground fault detection				FLOAT	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	%	5.000000	5.000000	15.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	5.000000	5.000000	15.000000	2/4

1168	MAX_TURN_MOTORIDENT				-	QV:	
	Max. rotation ground fault detection				FLOAT	Immediately	
P2 810D	HSA SLM VSA	ROT	degrees	10.000000	0.000000	30.000000	2/4
P2 840D	HSA SLM VSA	ROT	degrees	10.000000	0.000000	30.000000	2/4

1168	MAX_MOVE_MOTORIDENT				-	QV:	
	Max. motion ground fault detection				FLOAT	Immediately	
P2 840D	SLM	LIN	mm	5.000000	-	10.000000	2/4

1169	DIAG_MOTORIDENT				-	QV:	
	Diagnosis motor				WORD	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	-	0	-6	1	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	-6	1	2/4

1170	POLE_PAIR_PITCH				D05	QV: DL1	
	Pole pair pitch				FLOAT	Power On	
840D	VSA	ROT	-	72.0	0.0	1000.0	
P2 810D	VSA SLM	ROT/LIN	-	72.000000	0.000000	1000.000000	2/4
P2 840D	VSA SLM	ROT/LIN	-	72.000000	0.000000	1000.000000	2/4

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1170	**POLE_PAIR_PITCH**				D05	**QV:** DL1	
	Pole pair pitch				FLOAT	Power On	
840D	VSA	LIN	-	72.0000	0.0000	1000.0000	

1175	**INVERTER_THERM_CURR_ASYN**				D05	**QV:** DE1, DM1	
	Power section ASYN limit current				FLOAT	Power On	
840D	VSA	ROT/LIN	A	0.0000	0.0000	500.0000	2/4
P2 810D	VSA SLM	ROT/LIN	A	200.000000	0.000000	500.000000	2/4
P2 840D	VSA SLM	ROT/LIN	A	200.000000	0.000000	500.000000	2/4

1176	**INVERTER_MAX_S6_CURR_ASYN**				D05	**QV:** DE1, DM1	
	Power section S6 ASYN limit current				FLOAT	Power On	
840D	VSA	ROT/LIN	A	0.0000	0.0000	500.0000	2/4
P2 810D	VSA SLM	ROT/LIN	A	200.000000	0.000000	500.000000	2/4
P2 840D	VSA SLM	ROT/LIN	A	200.000000	0.000000	500.000000	2/4

1177	**INVERTER_RATED_CURR_ASYN**				D05	**QV:** DE1, DM1	
	Power section ASYN rated current				FLOAT	Power On	
840D	VSA	ROT/LIN	A	0.0000	0.0000	500.0000	2/4
P2 810D	VSA SLM	ROT/LIN	A	200.000000	0.000000	500.000000	2/4
P2 840D	VSA SLM	ROT/LIN	A	200.000000	0.000000	500.000000	2/4

1178	**INVERTER_DERATING_SYN**				D05	**QV:** DE1, DM1	
	Power section derating SYN				FLOAT	Power On	
840D	VSA	ROT/LIN	%	0.0000	0.0000	100.0000	2/4
P2 810D	VSA SLM	ROT/LIN	%	0.0	0.0	100.0	2/4
P2 840D	VSA SLM	ROT/LIN	%	0.0	0.0	100.0	2/4

1179	**INVERTER_DERATING_ASYN**				D05	**QV:** DE1, DM1	
	Power section derating ASYN				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	%	0.0000	0.0000	100.0000	2/4
P2 810D	VSA HSA SLM	ROT/LIN	%	0.0	0.0	100.0	2/4
P2 840D	VSA HSA SLM	ROT/LIN	%	0.0	0.0	100.0	2/4

1180	**CURRCTRL_ADAPT_CURRENT_1**				-	**QV:** FBU, DS1	
	Lower current limit adaptation				FLOAT	Immediately	
840D	VSA	ROT/LIN	%	0.0000	0.0000	100.0000	2/4
P2 810D	VSA SLM	ROT/LIN	%	0.000000	0.000000	100.000000	2/4
P2 840D	VSA SLM	ROT/LIN	%	0.000000	0.000000	100.000000	2/4

1181	**CURRCTRL_ADAPT_CURRENT_2**				-	**QV:** FBU, DS1	
	Upper current limit adaptation				FLOAT	Immediately	
840D	VSA	ROT/LIN	%	100.0000	0.0000	100.0000	2/4
P2 810D	VSA SLM	ROT/LIN	%	100.000000	0.000000	100.000000	2/4
P2 840D	VSA SLM	ROT/LIN	%	100.000000	0.000000	100.000000	2/4

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1182	REDUCE_ARMATURE_INDUCTANCE				-	QV: FBU, DS1	
	Current controller adaptation factor				FLOAT	Immediately	
840D	VSA	ROT/LIN	%	100.0000	1.0000	100.0000	2/4
P2 810D	VSA SLM	ROT/LIN	%	100.000000	1.000000	100.000000	2/4
P2 840D	VSA SLM	ROT/LIN	%	100.000000	1.000000	100.000000	2/4

1183	CURRCTRL_ADAPT_ENABLE				-	QV: DS1	
	Current controller adaptation ON				UNS.WORD	Power On	
840D	VSA	ROT/LIN	-	0	0	1	2/4
P2 810D	VSA SLM	ROT/LIN	-	1	0	1	2/4
P2 840D	VSA SLM	ROT/LIN	-	1	0	1	2/4

1185	STARTUP_FACT_CURRCTRL				-	QV:	
	Startup factor P-IREG				FLOAT	Immediately	
840D	HSA	ROT	%	100.0000	0.0000	10000.0000	2/4
P2 810D	HSA	LIN	%	100.0	0.0	10000.0	2/4
P2 840D	HSA	LIN	%	100.0	0.0	10000.0	2/4

1190	TORQUE_LIMIT_FROM_NC				D02, EXP	QV: DÜ1	
	Evaluation of torque limit				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	Nm	100.0000	0.0000	10000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Nm	100.000000	0.000000	10000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Nm	100.000000	0.000000	10000.000000	2/4

1191	TORQUE_LIMIT_ADAPT_SERVO				D02, EXP	QV: DÜ1	
	Adapting servo torque limit				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	-	1.0000	0.0000	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	1.000000	0.000000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	1.000000	0.000000	100.000000	2/4

1192	TORQUE_LIMIT_WEIGHT				D02, EXP	QV: F1, DL1, F1	
	Weight torque				FLOAT	Immediately	
810D	VSA/HSA	ROT	%	0.0000	-100.0000	100.0000	2/4
840D	VSA/HSA	ROT	%	0.0000	-100.0000	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	0.000000	-100.000000	100.000000	-/4
P2 840D	HSA SLM VSA	ROT/LIN	%	0.000000	-100.000000	100.000000	-/4

1192	FORCE_LIMIT_WEIGHT				D02, EXP	QV: F1, DL1, F1	
	Weight force				FLOAT	Immediately	
840D	VSA/HSA	LIN	%	0.0000	-100.0000	100.0000	2/4

1193	BALANCE_BY_STOP_C				D06	QV:	
	Counterweight at Stop C				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	1	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x0001	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x0001	2/4

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1200	**NUM_CURRENT_FILTERS**				D01	**QV:** DD2	
	Number of current setpoint filters				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	4	2/4
840D	VSA/HSA	ROT/LIN	-	1	0	4	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	1	0	4	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	1	0	6	2/4

1201	**CURRENT_FILTER_CONFIG**				D01	**QV:** DD2	
	Type of current setpoint filter				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	800f	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x800f	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x803f	2/4

1202	**CURRENT_FILTER_1_FREQUENCY**				D01	**QV:** DD2	
	Natural frequency for current setpoint filter 1				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	3999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	2000.0000	0.0000	8000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	0.000000	8000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	0.000000	8000.000000	2/4

1203	**CURRENT_FILTER_1_DAMPING**				D01	**QV:** DD2	
	Damping for current setpoint filter 1				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	-	1.0000	0.0500	5.0000	2/4
840D	VSA/HSA	ROT/LIN	-	0.7000	0.0500	5.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0.700000	0.050000	5.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0.700000	0.050000	5.000000	2/4

1204	**CURRENT_FILTER_2_FREQUENCY**				D01	**QV:** DD2	
	Natural frequency for current setpoint filter 2				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	8000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	8000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	8000.000000	2/4

1205	**CURRENT_FILTER_2_DAMPING**				D01	**QV:** DD2	
	Damping for current setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	-	1.0000	0.0500	5.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	1.000000	0.050000	5.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	1.000000	0.050000	5.000000	2/4

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1206	CURRENT_FILTER_3_FREQUENCY				D01	QV: DD2	
	Natural frequency for current setpoint filter 3				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	8000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	8000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	8000.000000	2/4

1207	CURRENT_FILTER_3_DAMPING				D01	QV: DD2	
	Damping for current setpoint filter 3				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	-	1.0000	0.0500	5.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	1.000000	0.050000	5.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	1.000000	0.050000	5.000000	2/4

1208	CURRENT_FILTER_4_FREQUENCY				D01	QV: DD2	
	Natural frequency for current setpoint filter 4				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	8000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	8000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	8000.000000	2/4

1209	CURRENT_FILTER_4_DAMPING				D01	QV: DD2	
	Damping for current setpoint filter 4				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	-	1.0000	0.0500	5.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	1.000000	0.050000	5.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	1.000000	0.050000	5.000000	2/4

1210	CURRENT_FILTER_1_SUPPR_FREQ				D01	QV: DD2	
	Blocking frequency for current setpoint filter 1				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	1600.0000	1.0000	3999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	3500.0000	1.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4

1211	CURRENT_FILTER_1_BANDWIDTH				D01	QV: DD2	
	Bandwidth for current setpoint filter 1				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	400.0000	5.0000	3999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	500.0000	5.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4

1212	CURRENT_FILTER_1_BW_NUM				D01, EXP	QV: DD2	
	Bandwidth numerator for current setpoint filter 1				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	3999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4

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1213	**CURRENT_FILTER_2_SUPPR_FREQ**				D01	**QV:** DD2	
	Blocking frequency for current setpoint filter 2				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	1200.0000	1.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	3500.0000	1.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4

1214	**CURRENT_FILTER_2_BANDWIDTH**				D01	**QV:** DD2	
	Bandwidth for current setpoint filter 2				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	400.0000	5.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	500.0000	5.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4

1215	**CURRENT_FILTER_2_BW_NUM**				D01, EXP	**QV:** DD2	
	Bandwidth numerator for current setpoint filter 2				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4

1216	**CURRENT_FILTER_3_SUPPR_FREQ**				D01	**QV:** DD2	
	Blocking frequency for current setpoint filter 3				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	1200.0000	1.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	3500.0000	1.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4

1217	**CURRENT_FILTER_3_BANDWIDTH**				D01	**QV:** DD2	
	Bandwidth for current setpoint filter 3				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	400.0000	5.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	500.0000	5.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4

1218	**CURRENT_FILTER_3_BW_NUM**				D01, EXP	**QV:** DD2	
	Bandwidth numerator for current setpoint filter 3				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4

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1219	CURRENT_FILTER_4_SUPPR_FREQ				D01	QV: DD2	
	Blocking frequency for current setpoint filter 4				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	1200.0000	1.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	3500.0000	1.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4

1220	CURRENT_FILTER_4_BANDWIDTH				D01	QV: DD2	
	Bandwidth for current setpoint filter 4				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	400.0000	5.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	500.0000	5.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4

1221	CURRENT_FILTER_4_BW_NUM				D01, EXP	QV: DD2	
	Bandwidth numerator for current setpoint filter 4				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	1999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	0.0000	0.0000	7999.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4

1222	CURRENT_FILTER_1_BS_FREQ				D01, EXP	QV: DD2	
	Natural BSF frequ. current setp. f. 1				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	%	100.0000	1.0000	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	100.000000	2/4

1223	CURRENT_FILTER_2_BS_FREQ				D01, EXP	QV: DD2	
	Natural BSF frequ. current setp. f. 2				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	%	100.0000	1.0000	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	100.000000	2/4

1224	CURRENT_FILTER_3_BS_FREQ				D01, EXP	QV: DD2	
	Natural BSF frequ. current setp. f. 3				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	%	100.0000	1.0000	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	100.000000	2/4

1225	CURRENT_FILTER_4_BS_FREQ				D01, EXP	QV: DD2	
	Natural BSF frequ. current setp. f. 4				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	%	100.0000	1.0000	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	100.000000	2/4

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1230	**TORQUE_LIMIT_1**				D02, EXP	**QV:** DÜ1, DL1	
	1st torque limit				FLOAT	Immediately	
840D	VSA/HSA	ROT	%	100.0000	5.0000	900.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	900.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	900.000000	2/4

1230	**FORCE_LIMIT_1**				D02, EXP	**QV:** DÜ1, DL1	
	1 st force threshold				FLOAT	Immediately	
840D	VSA/HSA	LIN	%	100.0000	5.0000	900.0000	2/4

1231	**TORQUE_LIMIT_2**				D02, EXP	**QV:** DÜ1, DL1	
	2nd torque limit				FLOAT	Immediately	
840D	VSA/HSA	ROT	%	100.0000	5.0000	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	100.000000	2/4

1231	**FORCE_LIMIT_2**				D02, EXP	**QV:** DÜ1, DL1	
	2nd force threshold				FLOAT	Immediately	
840D	VSA/HSA	LIN	%	100.0000	5.0000	100.0000	2/4

1232	**TORQUE_LIMIT_SWITCH_SPEED**				D02, EXP	**QV:** DÜ1, DL1	
	Changeover speed from MD 1230 to MD 1231				FLOAT	Immediately	
840D	VSA/HSA	ROT	1/min	6000.0000	0.0000	100000.0000	2/4
P2 810D	HSA SLM VSA	ROT	1/min	6000.000000	0.000000	100000.000000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	6000.000000	0.000000	100000.000000	2/4

1232	**FORCE_LIMIT_SWITCH_SPEED**				D02, EXP	**QV:** DÜ1, DL1	
	Changeover speed from MD 1230 to MD 1231				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	120.0000	0.0000	100000.0000	2/4
P2 840D	SLM	LIN	1/min	120.000000	-	-	2/4

1233	**TORQUE_LIMIT_GENERATOR**				D02, EXP	**QV:** DÜ1, DL1	
	Regenerative limiting				FLOAT	Immediately	
840D	VSA/HSA	ROT	%	100.0000	5.0000	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	100.000000	2/4

1233	**LIMIT_GENERATOR**				D02, EXP	**QV:** DÜ1, DL1	
	Generator force limiting				FLOAT	Immediately	
840D	VSA/HSA	LIN	%	100.0000	5.0000	100.0000	2/4

1234	**TORQUE_LIMIT_SWITCH_HYST**				D02, EXP	**QV:** DÜ1, DL1	
	Hysteresis MD 1232				FLOAT	Immediately	
840D	VSA/HSA	ROT	1/min	50.0000	0.0000	1000.0000	2/4
P2 810D	HSA SLM VSA	ROT	1/min	50.000000	0.000000	1000.000000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	50.000000	0.000000	1000.000000	2/4

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1234	FORCE_LIMIT_SWITCH_HYST				D02, EXP	QV: DÜ1, DL1	
	Hysteresis MD 1232				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	3.0000	0.0000	1000.0000	2/4
P2 840D	SLM	LIN	1/min	3.000000	-	-	2/4

1235	POWER_LIMIT_1				D02, EXP	QV: DÜ1	
	1st power limit				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	%	100.0000	5.0000	900.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	900.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	900.000000	2/4

1236	POWER_LIMIT_2				D02, EXP	QV: DÜ1	
	2nd power limit				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	%	100.0000	5.0000	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	5.000000	100.000000	2/4

1237	POWER_LIMIT_GENERATOR				D02, EXP	QV: DÜ1	
	Maximum regenerative power				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	kW	100.0000	0.3000	500.0000	2/4
840D	VSA/HSA	ROT/LIN	kW	100.0000	0.1000	500.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	kW	100.000000	0.100000	500.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	kW	100.000000	0.100000	500.000000	2/4

1238	CURRENT_LIMIT				D02	QV: DÜ1	
	Motor current limit				FLOAT	Immediately	
810D	HSA	ROT	%	150.0000	0.0000	300.0000	2/4
840D	HSA	ROT	%	150.0000	0.0000	400.0000	2/4
P2 810D	HSA	LIN	%	150.000000	0.000000	400.000000	2/4
P2 840D	HSA	LIN	%	150.000000	0.000000	400.000000	2/4

1239	TORQUE_LIMIT_FOR_SETUP				D02	QV: DÜ1, DL1	
	Torque limit in setting-up operation				FLOAT	Immediately	
840D	VSA/HSA	ROT	%	1.0000	0.5000	100.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	%	1.000000	0.500000	100.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	1.000000	0.500000	100.000000	2/4

1239	FORCE_LIMIT_FOR_SETUP				D02	QV: DÜ1, DL1	
	Force limit in setting-up operation				FLOAT	Immediately	
840D	VSA/HSA	LIN	%	1.0000	0.5000	100.0000	2/4

1245	CURRENT_SMOOTH_SPEED				EXP	QV: DD2, DL1	
	Threshold speed dep. on M setpoint smoothing				FLOAT	Immediately	
840D	VSA/HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4

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1245	**CURRENT_SMOOTH_SPEED**				EXP	**QV:** DD2, DL1	
	Threshold speed dependend F-setpoint smoothing				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	0.0000	0.0000	100000.0000	2/4

1246	**CURRENT_SMOOTH_HYSTERESIS**				EXP	**QV:** DD2, DL1	
	Hysteresis speed dep. M setpoint smoothing				FLOAT	Immediately	
840D	VSA/HSA	ROT	1/min	50.0000	0.0000	1000.0000	2/4
P2 810D	HSA SLM VSA	ROT	1/min	50.000000	0.000000	1000.000000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	50.000000	0.000000	1000.000000	2/4

1246	**CURRENT_SMOOTH_HYSTERESIS**				EXP	**QV:** DD2, DL1	
	Hysteresis speed dependend F-setpoint smoothing				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	3.0000	0.0000	1000.0000	2/4
P2 840D	SLM	LIN	1/min	3.000000	-	-	2/4

1247	**MOTOR_SWITCH_SPEED**				EXP	**QV:** DE1	
	Speed threshold for motor changeover				FLOAT	Immediately	
840D	HSA	ROT	1/min	100000.0000	0.0000	100000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	1/min	100000.000000	0.0	100000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	100000.000000	0.0	100000.000000	2/4

1248	**MOTOR_SWITCH_SPEED2**				EXP	**QV:** DE1	
	Speed threshold 2 motor switchover				FLOAT	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	1/min	100000.000000	0.0	100000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	100000.000000	0.0	100000.000000	2/4

1250	**ACTUAL_CURRENT_FILTER_FREQ**				D04	**QV:** DB1	
	Transition frequency for actual current smoothing				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	Hz	100.0000	0.0000	3999.0000	2/4
840D	VSA/HSA	ROT/LIN	Hz	100.0000	0.0000	8000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	100.000000	0.000000	8000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	100.000000	0.000000	8000.000000	2/4

1251	**LOAD_SMOOTH_TIME**				-	**QV:** DD1	
	Time constant for load smoothing				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	ms	0.0000	0.0000	1000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	ms	0.000000	0.000000	1000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0.000000	0.000000	1000.000000	2/4

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1252	TORQUE_FILTER_FREQUENCY				D04	QV: DB1, DL1	
	Transition frequency of torque setpoint smoothing				FLOAT	Immediately	
810D	VSA/HSA	ROT	Hz	100.0000	0.0000	3999.0000	2/4
840D	VSA/HSA	ROT	Hz	100.0000	0.0000	8000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	Hz	100.000000	0.000000	8000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	100.000000	0.000000	8000.000000	2/4

1252	FORCE_FILTER_FREQUENCY				D04	QV: DB1, DL1	
	Transition freq. for the force setpoint smoothing				FLOAT	Immediately	
840D	VSA/HSA	LIN	Hz	100.0000	0.0000	8000.0000	2/4

1254	CURRENT_MONITOR_FILTER_TIME				D02, EXP	QV: DÜ1	
	Time constant for current monitoring				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	ms	0.5000	0.0000	2.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	ms	0.500000	0.000000	2.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0.500000	0.000000	2.000000	2/4

1260	I2T_S6_REDUCTION				D02, EXP	QV: DM1	
	i2t limit., limit current power module S6				FLOAT	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	%	100.0	25.0	100.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.0	25.0	100.0	2/4

1261	I2T_NOMINAL_REDUCTION				D02, EXP	QV: DM1	
	i2t limit. rated current power module				FLOAT	Immediately	
P2 810D	HSA SLM VSA	ROT	%	110.0	25.0	110.0	2/4
P2 840D	HSA SLM VSA	ROT	%	110.0	25.0	110.0	2/4

1261	I2T_NOMINAL_REDUCTION				D02, EXP	QV: DM1	
	i2t limit. rated current power module				FLOAT	Immediately	
P2 840D	SLM	LIN	-	110.0	-	110.0	2/4

1262	DIAGNOSIS_I2T				D04	QV: DM1	
	i2t time in limitation				FLOAT	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	s	0.0	0.0	100000.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	s	0.0	0.0	100000.0	2/4

1263	LIMIT_I2T				D04	QV: DM1	
	i2t actual limitation factor				FLOAT	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	%	0.0	0.0	100.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	0.0	0.0	100.0	2/4

1264	LOAD_I2T				D04	QV: DM1	
	i2t Current utilization factor				FLOAT	Immediately	
P2 810D	HSA SLM VSA	ROT/LIN	%	0.0	0.0	100.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	0.0	0.0	100.0	2/4

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1265	**ACTIVITY_THERM_MOT**				D02	**QV:**	
	Thermal motor protection				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	3	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	90.0	50.0	100.0	2/4

1266	**LOAD_THERM_MOT**				D04	**QV:**	
	Thermal motor load				UNS.WORD	Immediately	
840D			%	-	0	0xffff	RO
P2 840D	HSA SLM VSA	ROT/LIN	%	0	0	65535	2/4

1267	**LOAD_THERM_MOT_WARN_LIM**				D02	**QV:**	
	Therm. mot. load warning threshold				WORD	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	%	80	0	100	2/4

1268	**TAU_TIME**				D05, D02	**QV:**	
	Winding time constant				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	s	0	0	5000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	s	0	0	5000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	s	0	0	5000	2/4

1272	**CURRENT_FILTER_5_FREQUENCY**				D01	**QV:**	
	Natural frequency for current setpoint filter 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	0.000000	8000.000000	2/4

1273	**CURRENT_FILTER_5_DAMPING**				D01	**QV:**	
	Damping for current setpoint filter 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.700000	0.050000	5.000000	2/4

1274	**CURRENT_FILTER_5_SUPPR_FREQ**				D01	**QV:**	
	Blocking frequency for current setpoint filter 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4

1275	**CURRENT_FILTER_5_BANDWIDTH**				D01	**QV:**	
	-3dB bandwidth for current setpoint filter 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4

1276	**CURRENT_FILTER_5_BW_NUM**				D01, EXP	**QV:**	
	Numerator bandwidth for damped bandwidth f. 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4

1277	**CURRENT_FILTER_5_BS_FREQ**				D01, EXP	**QV:**	
	BSF-natural frequ. current setpoint filter 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	100.000000	2/4

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1278	CURRENT_FILTER_6_FREQUENCY				D01	QV:	
	Natural frequency for current setpoint filter 6				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	0.000000	8000.000000	2/4

1279	CURRENT_FILTER_6_DAMPING				D01	QV:	
	Damping for current setpoint filter 6				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.700000	0.050000	5.000000	2/4

1280	CURRENT_FILTER_6_SUPPR_FREQ				D01	QV:	
	Blocking frequency for current setpoint filter 6				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4

1281	CURRENT_FILTER_6_BANDWIDTH				D01	QV:	
	-3dB bandwidth for current setpoint filter 6				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4

1282	CURRENT_FILTER_6_BW_NUM				D01, EXP	QV:	
	Numerator bandwidth for damped bandstop filter 6				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4

1283	CURRENT_FILTER_6_BS_FREQ				D01, EXP	QV:	
	BSF natural freq. current setpoint 6				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	100.000000	2/4

1300	SAFETY_CYCLE_TIME				D07	QV: FBSI	
	SI monitoring cycle				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	31,25 µs	384	16	800	2/4
P2 840D	HSA SLM VSA	ROT/LIN	31,25 µs	384	16	800	2/4

1301	SAFE_FUNCTION_ENABLE				D07	QV: FBSI	
	Enable safety functions				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	fffb	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xfffb	2/4

1302	SAFE_IS_ROT_AX				D07	QV: FBSI	
	Axis-specific bits of safety functions				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	3	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x0003	2/4

1305	SAFE_MODULO_RANGE				D07	QV: FBSI	
	Actual value range for SN for rotary axes				UNS.DWORD	Power On	
840D	VSA/HSA	ROT/LIN	mGrad	0	0	737280000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	mGrad	0	0	737280000	2/4

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1316	**SAFE_ENC_CONFIG**				D07	**QV:** FBSI	
	Motor encoder configuration of safety functions				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	7	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x0007	2/4

1317	**SAFE_ENC_GRID_POINT_DIST**				D07	**QV:** FBSI	
	Grid spacing of linear scale				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	µm, mGrad	10.0000	0.0100	8000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µm, mGrad	10.000000	0.010000	8000.000000	2/4

1318	**SAFE_ENC_RESOL**				D07	**QV:** FBSI	
	Encoder lines per revolution				UNS.DWORD	Power On	
840D	VSA/HSA	ROT/LIN	-	2048	1	100000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	2048	1	100000	2/4

1320	**SAFE_ENC_GEAR_PITCH**				D07	**QV:** FBSI	
	Spindle pitch				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	mm/rev	10.0000	0.1000	8388.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	mm/rev	10.000000	0.100000	8388.000000	2/4

1321	**SAFE_ENC_GEAR_DENOM**				D07	**QV:** FBSI	
	Denominator of gear unit encoder / load				UNS.DWORD	Power On	
840D	VSA/HSA	ROT/LIN	-	1	1	8388607	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	1	1	8388607	2/4

1322	**SAFE_ENC_GEAR_NUMERA**				D07	**QV:** FBSI	
	Numerator of gear unit encoder / load				UNS.DWORD	Power On	
840D	VSA/HSA	ROT/LIN	-	1	1	8388607	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	1	1	8388607	2/4

1326					D07	**QV:** DB1	
	Encoder limit frequency				UNS.DWORD	Power On	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	300000	300000	420000	2/4

1330	**SAFE_STANDSTILL_TOL**				D07	**QV:** FBSI	
	Standstill tolerance (SBH)				DWORD	Power On	
840D	VSA/HSA	ROT/LIN	µm, mGrad	1000	1	100000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µm, mGrad	1000	1	100000	2/4

1331	**SAFE_VELO_LIMIT**				D07	**QV:** FBSI	
	Limit values for SG				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	mm/min, rev/min	2000.0000	0.0000	1000000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	mm/min, rev/min	2000.000000	0.000000	1000000.000000	2/4

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1332	SAFE_VELO_OVR_FACTOR				D07	QV: FBSI	
	Override factor for SG				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	%	100	1	100	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100	1	100	2/4

1334	SAFE_POS_LIMIT_PLUS				D07	QV: FBSI	
	Upper limit value for SE				DWORD	Power On	
840D	VSA/HSA	ROT/LIN	µm, mGrad	100000000	-2147000000	2147000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µm, mGrad	100000000	-2147000000	2147000000	2/4

1335	SAFE_POS_LIMIT_MINUS				D07	QV: FBSI	
	Lower limit value for SE				DWORD	Power On	
840D	VSA/HSA	ROT/LIN	µm, mGrad	-100000000	-2147000000	2147000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µm, mGrad	-100000000	-2147000000	2147000000	2/4

1336	SAFE_CAM_POS_PLUS				D07	QV: FBSI	
	Plus cam position SN				DWORD	Power On	
840D	VSA/HSA	ROT/LIN	µm, mGrad	10000	-2147000000	2147000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µm, mGrad	10000	-2147000000	2147000000	2/4

1337	SAFE_CAM_POS_MINUS				D07	QV: FBSI	
	Minus cam position SN				DWORD	Power On	
840D	VSA/HSA	ROT/LIN	µm, mGrad	-10000	-2147000000	2147000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µm, mGrad	-10000	-2147000000	2147000000	2/4

1340	SAFE_CAM_TOL				D07	QV: FBSI	
	Tolerance for safe cams				DWORD	Power On	
840D	VSA/HSA	ROT/LIN	µm, mGrad	100	1	10000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µm, mGrad	100	1	10000	2/4

1342	SAFE_POS_TOL				D07	QV: FBSI	
	Actual value tolerance for the cross-check				DWORD	Power On	
840D	VSA/HSA	ROT/LIN	µm, mGrad	100	1	360000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µm, mGrad	100	1	360000	2/4

1344	SAFE_REFP_POS_TOL				D07	QV: FBSI	
	Actual value tolerance safe axis position				DWORD	Power On	
840D	VSA/HSA	ROT/LIN	µm, mGrad	10	0	36000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µm, mGrad	10	0	36000	2/4

1346	SAFE_VELO_X				D07	QV: FBSI	
	Speed limit nx				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	mm/min, rev/min	20.0000	0.0000	1000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	mm/min, rev/min	20.000000	0.000000	1000.000000	2/4

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1348	**SAFE_STOP_VELO_TOL**				D07	**QV:** FBSI	
	Actual speed tolerance for SBR				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	mm/min, rev/min	300.0000	0.0000	20000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	mm/min, rev/min	300.000000	0.000000	20000.000000	2/4

1349	**SAFE_SLIP_VELO_TOL**				D07	**QV:** FBSI	
	Tolerance 2 encoder drift/slip				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	mm/min, rev/min	6.0000	0.0000	1000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	mm/min, rev/min	6.000000	0.000000	1000.000000	2/4

1350	**SAFE_MODE_SWITCH_TIME**				D07	**QV:** FBSI	
	Tolerance time for SGE changeover				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	ms	500.0000	0.0000	10000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	500.000000	0.000000	10000.000000	2/4

1351	**SAFE_VELO_SWITCH_DELAY**				D07	**QV:** FBSI	
	Delay time for SG changeover				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	ms	100.0000	0.0000	600000.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	100.000000	0.000000	600000.000000	2/4

1352	**SAFE_STOP_SWITCH_TIME_C**				D07	**QV:** FBSI	
	Transition time from STOP C to SBH				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	ms	100.0000	0.0000	600000.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	100.000000	0.000000	600000.000000	2/4

1353	**SAFE_STOP_SWITCH_TIME_D**				D07	**QV:** FBSI	
	Transition time from STOP D to SBH				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	ms	100.0000	0.0000	600000.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	100.000000	0.000000	600000.000000	2/4

1354	**SAFE_STOP_SWITCH_TIME_E**				D07	**QV:** FBSI	
	Transition time from STOP E to SBH				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	ms	100.0000	0.0000	600000.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	100.000000	0.000000	600000.000000	2/4

1355	**SAFE_STOP_SWITCH_TIME_F**				D07	**QV:** FBSI	
	Transition time from STOP F to Stop B				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	ms	0.0000	0.0000	600000.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0.000000	0.000000	600000.000000	2/4

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1356	SAFE_PULSE_DISABLE_DELAY				D07	QV: FBSI	
	Delay time for pulse suppression				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	ms	100.0000	0.0000	600000.0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	100.000000	0.000000	600000.000000	2/4

1357	SAFE_PULSE_DIS_CHECK_TIME				D07	QV: FBSI	
	Time for testing pulse suppression				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	ms	100.0000	0.0000	10000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	100.000000	0.000000	10000.000000	2/4

1358	SAFE_ACC_TEST_TIMEOUT				D07	QV: FBSI	
	Acceptance test monitoring				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	ms	40000.0000	5000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	40000.0	5000.0	100000.0	2/4

1360	SAFE_STANDSTILL_VELO_TOL				D07	QV: FBSI	
	Creep speed pulse suppression				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	mm/min, rev/min	0.0000	0.0000	1000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	mm/min, rev/min	0.000000	0.000000	1000.000000	2/4

1361	SAFE_VELO_STOP_MODE				D07	QV: FBSI	
	Stop reaction with SG				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	5	0	14	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	5	0	14	2/4

1362	SAFE_POS_STOP_MODE				D07	QV: FBSI	
	Stop reaction with SE				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	2	2	4	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	2	2	4	2/4

1363	SAFE_VELO_STOP_REACTION				D07	QV: FBSI	
	Specific SG stop reaction				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	2	0	14	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	2	0	14	2/4

1370	SAFE_TEST_MODE				D07	QV: FBSI	
	Acceptance test mode				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	ac	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	0x00AC	2/4

1371	SAFE_TEST_STATE				D07	QV: FBSI	
	Acceptance test state				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	ac	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	0x00AC	2/4

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1380	**SAFE_PULSE_DIS_TIME_FAIL**				D07	**QV:** FBSI	
	Time remaining until pulse suppression				FLOAT	Power On	
840D	VSA/HSA	ROT/LIN	ms	0.0000	0.0000	1000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0.000000	0.000000	800.000000	2/4

1390	**SAFE_FIRMWARE_VERSION**				D07	**QV:** FBSI	
	Firmware				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	2/4

1391	**SAFE_DIAG_NC_RESULTLIST1**				D07	**QV:** FBSI	
	Diagnostics: NC result list 1				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	2/4

1392	**SAFE_DIAG_611D_RESULTLIST1**				D07	**QV:** FBSI	
	Diagnostics: 611D result list 1				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	2/4

1393	**SAFE_DIAG_NC_RESULTLIST2**				D07	**QV:** FBSI	
	Diagnostics: NC result list 2				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	2/4

1394	**SAFE_DIAG_611D_RESULTLIST2**				D07	**QV:** FBSI	
	Diagnostics: 611D result list 2				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	2/4

1395	**SAFE_STOP_F_DIAGNOSIS**				D07	**QV:** FBSI	
	Diagnostics for STOP F				WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	32767	0	32767	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	32767	0	32767	2/4

1396	**SAFE_ACKN_WRITE**				D07	**QV:** FBSI	
	User agreement				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xffff	2/4

1397	**SAFE_ACKN_READ**				D07	**QV:** FBSI	
	611D internal agreement				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xffff	2/4

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1398	SAFE_ACT_CHECKSUM				D07	QV: FBSI	
	Display of SI-MD check sum				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	2/4

1399	SAFE_DES_CHECKSUM				D07	QV: FBSI	
	SI-MD check sum				UNS.DWORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	2/4

1400	MOTOR_RATED_SPEED				D05	QV: DM1, DL1	
	Rated motor speed				FLOAT	Power On	
810D	VSA/HSA	ROT	1/min	0.0000	0.0000	25000.0000	2/4
840D	VSA/HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4
P2 810D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4

1400	MOTOR_RATED_SPEED				D05	QV: DM1, DL1	
	Rated motor speed				FLOAT	Power On	
840D	VSA/HSA	LIN	1/min	0.0000	0.0000	100000.0000	2/4

1401	MOTOR_MAX_SPEED				D05, D02	QV: DD1, DL1	
	Maximum usable motor speed				FLOAT	Power On	
810D	VSA/HSA	ROT	1/min	0.0000	0.0000	50000.0000	2/4
840D	VSA/HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4

1401	MOTOR_MAX_SPEED				D05, D02	QV: DD1, DL1	
	Maximum motor operating speed				FLOAT	Power On	
840D	VSA/HSA	LIN	1/min	0.0000	0.0000	100000.0000	2/4

1403	PULSE_SUPPRESSION_SPEED				D02	QV: DB1, DL1	
	Shut down speed pulse suppression				FLOAT	Immediately	
840D	VSA/HSA	ROT	1/min	0.0000	0.0000	7200.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	7200.000000	2/4

1403	PULSE_SUPPRESSION_SPEED				D02	QV: DB1, DL1	
	Switch-off speed for cancelling of pulses				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	0.0000	0.0000	7200.0000	2/4

1404	PULSE_SUPPRESSION_DELAY				D02	QV: DB1	
	Timer impulse suppression				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	ms	100.0000	0.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	100.000000	0.000000	100000.000000	2/4

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1405	**MOTOR_SPEED_LIMIT**				D05, D02	**QV:** DÜ1,DL1	
	Monitoring motor speed				FLOAT	Immediately	
840D	VSA/HSA	ROT	%	110.0000	100.0000	110.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	110.000000	100.000000	110.000000	2/4

1405	**MOTOR_SPEED_LIMIT**				D05, D02	**QV:** DÜ1,DL1	
	Monitoring speed of motor				FLOAT	Immediately	
840D	VSA/HSA	LIN	%	110.0000	100.0000	110.0000	2/4

1406	**SPEEDCTRL_TYPE**				EXP	**QV:** DD2	
	Speed controller type				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	1	1	1	0/0
P2 840D	HSA SLM VSA	ROT/LIN	-	1	1	1	0/0

1407	**SPEEDCTRL_GAIN_1**				D01, D08	**QV:** DD2, DL1	
	P gain of speed controller				FLOAT	Immediately	
810D	VSA/HSA	ROT	Nms/rad	0.3000	0.0000	100000.0000	2/4
840D	VSA/HSA	ROT	Nms/rad	0.3000	0.0000	1000000.0000	2/4
P2 840D	HSA SLM VSA	ROT	Nms/rad	0.300000	0.000000	1000000.000000	2/4

1407	**SPEEDCTRL_GAIN_1**				D01, D08	**QV:** DD2, DL1	
	P gain speed control				FLOAT	Immediately	
840D	VSA/HSA	LIN	Ns/m	2000.0000	0.0000	1000000.0000	2/4
P2 840D	SLM	LIN	Ns/m	2000.000000	-	-	2/4

1408	**SPEEDCTRL_GAIN_2**				D01, EXP	**QV:** DD2, DL1	
	P gain of upper adaptation speed				FLOAT	Immediately	
810D	VSA/HSA	ROT	Nms/rad	0.0000	0.0000	100000.0000	2/4
840D	VSA/HSA	ROT	Nms/rad	0.3000	0.0000	1000000.0000	2/4
P2 840D	HSA SLM VSA	ROT	Nms/rad	0.300000	0.000000	1000000.000000	2/4

1408	**SPEEDCTRL_GAIN_2**				D01, EXP	**QV:** DD2, DL1	
	P gain upper adaption speed				FLOAT	Immediately	
840D	VSA/HSA	LIN	Ns/m	2000.0000	0.0000	1000000.0000	2/4
P2 840D	SLM	LIN	Ns/m	2000.000000	-	-	2/4

1409	**SPEEDCTRL_INTEGRATOR_TIME_1**				D01, D08	**QV:** DD2, DL1	
	Integral action time of speed controller				FLOAT	Immediately	
840D	VSA/HSA	ROT	ms	10.0000	0.0000	500.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	10.000000	0.000000	500.000000	-/4

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1409	SPEEDCTRL_INTEGRATOR_TIME_1				D01, D08	QV: DD2, DL1	
	Integral action time of speed controller				FLOAT	Immediately	
840D	VSA/HSA	LIN	ms	10.0000	0.0000	500.0000	2/4

1410	SPEEDCTRL_INTEGRATOR_TIME_2				D01, EXP	QV: DD2, DL1	
	Integral action time of upper adaptation speed				FLOAT	Immediately	
840D	VSA/HSA	ROT	ms	10.0000	0.0000	500.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	10.000000	0.000000	500.000000	2/4

1410	SPEEDCTRL_INTEGRATOR_TIME_2				D01, EXP	QV: DD2, DL1	
	Integral action time of upper adaption speed				FLOAT	Immediately	
840D	VSA/HSA	LIN	ms	10.0000	0.0000	500.0000	2/4

1411	SPEEDCTRL_ADAPT_SPEED_1				D01, EXP	QV: DD2, DL1	
	Lower adaptation speed				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	0.0000	0.0000	50000.0000	2/4
840D	VSA/HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4

1411	SPEEDCTRL_ADAPT_SPEED_1				D01, EXP	QV: DD2, DL1	
	Lower adaption speed threshold				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	0.0000	0.0000	100000.0000	2/4

1412	SPEEDCTRL_ADAPT_SPEED_2				D01, EXP	QV: DD2, DL1	
	Upper adaptation speed				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	0.0000	0.0000	50000.0000	2/4
840D	VSA/HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4

1412	SPEEDCTRL_ADAPT_SPEED_2				D01, EXP	QV: DD2, DL1	
	Upper adaption speed threshold				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	0.0000	0.0000	100000.0000	2/4

1413	SPEEDCTRL_ADAPT_ENABLE				D01, EXP	QV: DD2, DL1	
	Select adaptation speed controller				UNS.WORD	Immediately	
840D	VSA/HSA	ROT	-	0	0	1	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	1	2/4

1413	SPEEDCTRL_ADAPT_ENABLE				D01, EXP	QV: DD2, DL1	
	Select adaptation speed controller				UNS.WORD	Immediately	
840D	VSA/HSA	LIN	-	0	0	1	2/4

1414	SPEEDCTRL_REF_MODEL_FREQ				D01, EXP	QV: DD2, DL1	
	Natural frequency for the reference model speed				FLOAT	Immediately	
840D	VSA/HSA	ROT	Hz	0.0000	0.0000	8000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000		2/4

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1414	**SPEEDCTRL_REF_MODEL_FREQ**				D01, EXP	**QV:** DD2, DL1	
	Natural frequency for the reference model speed				FLOAT	Immediately	
840D	VSA/HSA	LIN	Hz	0.0000	0.0000	8000.0000	2/4

1415	**SPEEDCTRL_REF_MODEL_DAMPING**				D01, EXP	**QV:** DD2, DL1	
	Damping of reference model speed				FLOAT	Immediately	
840D	VSA/HSA	ROT	-	1.0000	0.5000	5.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	1.000000	0.500000	5.000000	2/4

1415	**SPEEDCTRL_REF_MODEL_DAMPING**				D01, EXP	**QV:** DD2, DL1	
	Damping of reference model speed				FLOAT	Immediately	
840D	VSA/HSA	LIN	-	1.0000	0.5000	5.0000	2/4

1416	**SPEEDCTRL_REF_MODEL_DELAY**				D01, EXP	**QV:** DD2, DL1	
	Balancing the reference model speed				FLOAT	Immediately	
840D	VSA/HSA	ROT	-	0.0000	0.0000	1.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0.000000	0.000000	1.000000	2/4

1416	**SPEEDCTRL_REF_MODEL_DELAY**				D01, EXP	**QV:** DD2, DL1	
	Balancing the reference model speed				FLOAT	Immediately	
840D	VSA/HSA	LIN	-	0.0000	0.0000	1.0000	2/4

1417	**SPEED_THRESHOLD_X**				D03	**QV:** DB1, DL1	
	Signal n_x for 'n_act < n_x'				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	6000.0000	0.0000	50000.0000	2/4
840D	VSA/HSA	ROT	1/min	6000.0000	0.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	6000.000000	0.000000	100000.000000	2/4

1417	**SPEED_THRESHOLD_X**				D03	**QV:** DB1, DL1	
	v_x for "v_act < v_x" signal				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	120.0000	0.0000	100000.0000	2/4
P2 840D	SLM	LIN	1/min	120.000000	-	-	2/4

1418	**SPEED_THRESHOLD_MIN**				D03	**QV:** DB1, DL1	
	Signal n_min for 'act_n < n_min'				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	5.0000	0.0000	25000.0000	2/4
840D	VSA/HSA	ROT	1/min	5.0000	0.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	5.000000	0.000000	100000.000000	2/4

1418	**SPEED_THRESHOLD_MIN**				D03	**QV:** DB1, DL1	
	v_min for "v_act < v_min" signal				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	0.3000	0.0000	100000.0000	2/4
P2 840D	SLM	LIN	1/min	0.300000	-	-	2/4

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1420	MOTOR_MAX_SPEED_SETUP				D02	QV: DÜ1, DL1	
	Max. motor speed, setting-up operation				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	30.0000	0.0000	50000.0000	2/4
840D	VSA/HSA	ROT	1/min	30.0000	0.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	30.000000	0.000000	30.000000	2/4

1420	MOTOR_MAX_SPEED_SETUP				D02	QV: DÜ1, DL1	
	Maximum speed in setting-up operation				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	2.0000	0.0000	100000.0000	2/4
P2 840D	SLM	LIN	1/min	2.000000	-	-	2/4

1421	SPEEDCTRL_INTEGRATOR_FEEDBK				D01	QV: DD1	
	Time constant integrator feedback				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	ms	0.0000	0.0000	1000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0.000000	0.000000	1000.000000	2/4

1424	SPEED_FFW_FILTER_TIME				D01, EXP	QV: DS1, DL1	
	Balancing the speed precontrol channel				FLOAT	Immediately	
840D	VSA/HSA	ROT	µs	0.0000	0.0000	50000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µs	0.000000	0.000000	50000.000000	2/4

1424	SPEED_FFW_FILTER_TIME				D01, EXP	QV: DS1, DL1	
	Balancing the speed precontrol channel				FLOAT	Immediately	
840D	VSA/HSA	LIN	µs	0.0000	0.0000	50000.0000	2/4

1425	SPEED_FFW_DELAY				D01, EXP	QV: DS1	
	Balancing computation deadtime I-controller				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	-	0.0000	0.0000	1.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0.000000	0.000000	1.000000	2/4

1426	SPEED_DES_EQ_ACT_TOL				D03	QV: DB1, DL1	
	Tolerance bandwidth for 'n_set = n_act' signal				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	20.0000	0.0000	10000.0000	2/4
840D	VSA/HSA	ROT	1/min	20.0000	0.0000	10000.0000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	20.000000	0.000000	10000.000000	2/4

1426	SPEED_DES_EQ_ACT_TOL				D03	QV: DB1, DL1	
	Tolerance bandwidth for "v_set = v_act" signal				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	1.0000	0.0000	10000.0000	2/4
P2 840D	SLM	LIN	1/min	1.000000	-	-	2/4

1427	SPEED_DES_EQ_ACT_DELAY				D03	QV: DB1, DL1	
	Delay time signal 'n_set = n_act'				FLOAT	Immediately	
840D	VSA/HSA	ROT	ms	200.0000	0.0000	500.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	200.000000	0.000000	500.000000	2/4

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1427	**SPEED_DES_EQ_ACT_DELAY**				D03	**QV:** DB1, DL1	
	Delay time signal 'n_set = n_act'				FLOAT	Immediately	
840D	VSA/HSA	LIN	ms	200.0000	0.0000	500.0000	2/4

1428	**TORQUE_THRESHOLD_X**				D03	**QV:** DB1, DL1	
	Threshold force M_dx				FLOAT	Immediately	
840D	VSA/HSA	ROT	%	90.0000	0.0000	100.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	90.000000	0.000000	100.000000	2/4

1428	**FORCE_THRESHOLD_X**				D03	**QV:** DB1, DL1	
	Threshold force Fdx				FLOAT	Immediately	
840D	VSA/HSA	LIN	%	90.0000	0.0000	100.0000	2/4

1429	**TORQUE_THRESHOLD_X_DELAY**				D03	**QV:** DB1, DL1	
	Delay time signal 'Md < Mdx'				FLOAT	Immediately	
840D	VSA/HSA	ROT	ms	800.0000	0.0000	1000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	800.000000	0.000000	1000.000000	2/4

1429	**TORQUE_THRESHOLD_X_DELAY**				D03	**QV:** DB1, DL1	
	Delay time 'Fd < Fdx' signal				FLOAT	Immediately	
840D	VSA/HSA	LIN	ms	800.0000	0.0000	1000.0000	2/4

1451	**SPEEDCTRL_GAIN_1_AM**				D01	**QV:** DE1	
	P gain of speed control loop IM				FLOAT	Immediately	
840D	HSA	ROT	Nms/rad	0.3000	0.0000	100000.0000	2/4
P2 840D	HSA	LIN	Nms/rad	0.300000	0.000000	100000.000000	2/4

1453	**SPDCTRL_INTEGR_TIME_1_AM**				D01	**QV:** DE1	
	Integral action time of speed control loop IM				FLOAT	Immediately	
840D	HSA	ROT	ms	140.0000	0.0000	6000.0000	2/4
P2 840D	HSA	LIN	ms	140.000000	0.000000	6000.000000	2/4

1458	**DES_CURRENT_OPEN_LOOP_AM**				D01	**QV:** DE1	
	Current setpoint controlled range IM				FLOAT	Immediately	
840D	HSA	ROT	%	90.0000	0.0000	150.0000	2/4
P2 840D	HSA	LIN	%	90.000000	0.000000	150.000000	2/4

1459	**TORQUE_SMOOTH_TIME_AM**				D01	**QV:** DE1	
	Torque smoothing time constant IM				FLOAT	Immediately	
840D	HSA	ROT	ms	4.0000	0.0000	100.0000	2/4
P2 840D	HSA	LIN	ms	4.000000	0.000000	100.000000	2/4

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1465	SWITCH_SPEED_MSD_AM				D01, D06	QV: DE1	
	Changeover speed MSD/IM				FLOAT	Immediately	
840D	HSA	ROT	1/min	100000.0000	0.0000	100000.0000	2/4
P2 840D	HSA	LIN	1/min	100000.000000	0.000000	100000.000000	2/4

1466	SWITCH_SPD_OPEN_LOOP_AM				D01	QV: DE1	
	Changeover speed closed/open loop IM				FLOAT	Immediately	
840D	HSA	ROT	1/min	300.0000	150.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	300.000000	5.000000	100000.000000	2/4

1466	SWITCH_SPD_OPEN_LOOP_AM				D01	QV: DE1	
	Changeover speed closed/open loop IM				FLOAT	Immediately	
P2 840D	SLM	LIN	-	20.000000	3.000000	-	2/4

1500	NUM_SPEED_FILTERS				D01	QV: DD2, DL1	
	Number of speed setpoint filters				UNS.WORD	Immediately	
810D	VSA/HSA	ROT	-	0	0	1	2/4
840D	VSA/HSA	ROT	-	0	0	2	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	2	2/4

1500	NUM_SPEED_FILTERS				D01	QV: DD2, DL1	
	Number of speed setpoint filters				UNS.WORD	Immediately	
840D	VSA/HSA	LIN	-	0	0	2	2/4

1501	SPEED_FILTER_TYPE				D01	QV: DD2, DL1	
	Speed setpoint filter type				UNS.WORD	Immediately	
840D	VSA/HSA	ROT	-	0	0	8303	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x8303	2/4

1501	SPEED_FILTER_TYPE				D01	QV: DD2, DL1	
	Speed setpoint filter type				UNS.WORD	Immediately	
840D	VSA/HSA	LIN	-	0	0	8303	2/4

1502	SPEED_FILTER_1_TIME				D01	QV: DD2, DL1	
	Time constant for speed setpoint filter 1				FLOAT	Immediately	
810D	VSA/HSA	ROT	ms	0.0000	0.0000	150.0000	2/4
840D	VSA/HSA	ROT	ms	0.0000	0.0000	500.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0.000000	0.000000	500.000000	2/4

1502	SPEED_FILTER_1_TIME				D01	QV: DD2, DL1	
	Time constant for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	LIN	ms	0.0000	0.0000	500.0000	2/4

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1503	**SPEED_FILTER_2_TIME**				D01	**QV:** DD2, DL1	
	Time constant for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	ROT	ms	0.0000	0.0000	500.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0.000000	0.000000	500.000000	2/4

1503	**SPEED_FILTER_2_TIME**				D01	**QV:** DD2, DL1	
	Time constant for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	LIN	ms	0.0000	0.0000	500.0000	2/4

1506	**SPEED_FILTER_1_FREQUENCY**				D01, EXP	**QV:** DD2, DL1	
	Natural frequency for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	ROT	Hz	2000.0000	10.0000	8000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	10.000000	8000.000000	2/4

1506	**SPEED_FILTER_1_FREQUENCY**				D01, EXP	**QV:** DD2, DL1	
	Natural frequency for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	LIN	Hz	2000.0000	10.0000	8000.0000	2/4

1507	**SPEED_FILTER_1_DAMPING**				D01, EXP	**QV:** DD2, DL1	
	Damping for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	ROT	-	0.7000	0.2000	5.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0.700000	0.200000	5.000000	2/4

1507	**SPEED_FILTER_1_DAMPING**				D01, EXP	**QV:** DD2, DL1	
	Damping for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	LIN	-	0.7000	0.2000	5.0000	2/4

1508	**SPEED_FILTER_2_FREQUENCY**				D01, EXP	**QV:** DD2, DL1	
	Natural frequency for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	ROT	Hz	2000.0000	10.0000	8000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	10.000000	8000.000000	2/4

1508	**SPEED_FILTER_2_FREQUENCY**				D01, EXP	**QV:** DD2, DL1	
	Natural frequency for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	LIN	Hz	2000.0000	10.0000	8000.0000	2/4

1509	**SPEED_FILTER_2_DAMPING**				D01, EXP	**QV:** DD2, DL1	
	Damping for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	ROT	-	0.7000	0.2000	5.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0.700000	0.200000	5.000000	2/4

1509	**SPEED_FILTER_2_DAMPING**				D01, EXP	**QV:** DD2, DL1	
	Damping for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	LIN	-	0.7000	0.2000	5.0000	2/4

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1514	SPEED_FILTER_1_SUPPR_FREQ				D01, EXP	QV: DD2, DL1	
	Blocking frequency for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	ROT	Hz	3500.0000	1.0000	7999.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4

1514	SPEED_FILTER_1_SUPPR_FREQ				D01, EXP	QV: DD2, DL1	
	Blocking frequency for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	LIN	Hz	3500.0000	1.0000	7999.0000	2/4

1515	SPEED_FILTER_1_BANDWIDTH				D01, EXP	QV: DD2, DL1	
	Bandwidth for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	ROT	Hz	500.0000	5.0000	7999.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4

1515	SPEED_FILTER_1_BANDWIDTH				D01, EXP	QV: DD2, DL1	
	Bandwidth for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	LIN	Hz	500.0000	5.0000	7999.0000	2/4

1516	SPEED_FILTER_1_BW_NUMERATOR				D01, EXP	QV: DD2, DL1	
	Bandwidth numerator for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	ROT	Hz	0.0000	0.0000	7999.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4

1516	SPEED_FILTER_1_BW_NUMERATOR				D01, EXP	QV: DD2, DL1	
	Bandwidth numerator for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	LIN	Hz	0.0000	0.0000	7999.0000	2/4

1517	SPEED_FILTER_2_SUPPR_FREQ				D01, EXP	QV: DD2, DL1	
	Blocking frequency for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	ROT	Hz	3500.0000	1.0000	7999.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	3500.000000	1.000000	7999.000000	2/4

1517	SPEED_FILTER_2_SUPPR_FREQ				D01, EXP	QV: DD2, DL1	
	Blocking frequency for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	LIN	Hz	3500.0000	1.0000	7999.0000	2/4

1518	SPEED_FILTER_2_BANDWIDTH				D01, EXP	QV: DD2, DL1	
	Bandwidth for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	ROT	Hz	500.0000	5.0000	7999.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	500.000000	5.000000	7999.000000	2/4

1518	SPEED_FILTER_2_BANDWIDTH				D01, EXP	QV: DD2, DL1	
	Bandwidth for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	LIN	Hz	500.0000	5.0000	7999.0000	2/4

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1519	**SPEED_FILTER_2_BW_NUMERATOR**				D01, EXP	**QV:** DD2, DL1	
	Bandwidth numerator for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	ROT	Hz	0.0000	0.0000	7999.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	0.000000	7999.000000	2/4

1519	**SPEED_FILTER_2_BW_NUMERATOR**				D01, EXP	**QV:** DD2, DL1	
	Bandwidth numerator for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	LIN	Hz	0.0000	0.0000	7999.0000	2/4

1520	**SPEED_FILTER_1_BS_FREQ**				D01, EXP	**QV:** DD2, DL1	
	BSF natural frequency for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	ROT	%	100.0000	1.0000	141.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	141.000000	2/4

1520	**SPEED_FILTER_1_BS_FREQ**				D01, EXP	**QV:** DD2, DL1	
	BSF natural frequency for speed setpoint filter 1				FLOAT	Immediately	
840D	VSA/HSA	LIN	%	100.0000	1.0000	141.0000	2/4

1521	**SPEED_FILTER_2_BS_FREQ**				D01, EXP	**QV:** DD2, DL1	
	BSF natural frequency for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	ROT	%	100.0000	1.0000	141.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	100.000000	1.000000	141.000000	2/4

1521	**SPEED_FILTER_2_BS_FREQ**				D01, EXP	**QV:** DD2, DL1	
	BSF natural frequency for speed setpoint filter 2				FLOAT	Immediately	
840D	VSA/HSA	LIN	%	100.0000	1.0000	141.0000	2/4

1522	**ACT_SPEED_FILTER_TIME**				D01	**QV:** DD2	
	Time const. actual speed value filter				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0.000000	0.000000	500.000000	2/4

1523	**ACT_SPEED_FILTER_TIME_RLI**				D01	**QV:**	
	Time const. actual speed value filter RLI				FLOAT	Immediately	
P2 840D	SLM VSA	ROT/LIN	ms	0.000000	0.000000	500.000000	2/4

1550	**ACC_SENS_REF**				D01	**QV:** DÜ1	
	Reference value accel. sensor f. 1V				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	1000.000000	-1000000.000000	1000000.000000	2/4

1560	**ACC_MODE**				D01	**QV:** DÜ1	
	Mode acceleration eval.				UNS.WORD	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x7FFF	2/4

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1561	ACC_SENS_RESOL				D01	QV: DÜ1	
	Accel. sensor resolution bits				UNS.WORD	Power On	
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	12	2/4

1562	FACTOR_MM_DM				D01	QV: DÜ1	
	Transmission ratio motor to DM				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	1.000000	-1000000.000000	1000000.000000	2/4

1563	ACC_HIGH_PASS_TIME				D01	QV: DÜ1	
	Time const. accel. high pass				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	ms	1000.0	0.000000	5000.000000	2/4

1564	LOAD_SPEEDCTL_DIFF_TIME				D01	QV: DÜ1	
	Lead time for load speed controller				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	ms	0.000000	-1000.000000	1000.000000	2/4

1565	LOAD_SPEEDCTL_GAIN				D01	QV: DÜ1	
	P gain of load speed controller				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.000000	-256.000000	256.000000	2/4

1566	LOAD_SPEEDCTL_LIMIT				D01	QV: DÜ1	
	Limitation of load speed controller				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	1/min	500.000000	0.000000	100000.000000	2/4

1567	LOAD_SPEEDCTL_DIFF_TIME2				D01	QV:	
	Derivative action time load speed controller 2				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	ms	0.000000	-1000.000000	1000.000000	2/4

1569	ACC_FIL_DOWNSCAN				D01	QV: DÜ1	
	Sub-sampling accel. Filter				UNS.WORD	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	1	1	64	2/4

1570	ACC_FILTER_TYPE				D01	QV: DÜ1	
	Type acceleration filter				UNS.WORD	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x1B1F	2/4

1571	ACC_FILTER_TIME1				D01	QV: DÜ1	
	Time constant acceleration f.1				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	ms	1.000000	0.000000	500.000000	2/4

1572	ACC_DENOM_FILTER_FREQU1				D01, EXP	QV: DÜ1	
	Natural denominator freq. accel. filter 1				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	2.000000	8000.000000	2/4

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1573	**ACC_DENOM_FILTER_DAMP1**				D01, EXP	**QV:** DÜ1	
	Denominator attenuation, accel. filter 1"				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	10.000000	2/4

1574	**ACC_NOM_FILTER_FREQU1**				D01, EXP	**QV:** DÜ1	
	Natural numerator frequ. accel. filter 1				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	2.000000	8000.000000	2/4

1575	**ACC_NOM_FILTER_DAMP1**				D01, EXP	**QV:** DÜ1	
	Numerator attenuation accel. filter 1				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	10.000000	2/4

1576	**ACC_FILTER_TIME2**				D01	**QV:** DÜ1	
	Time constant accel. f.2				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	ms	1.000000	0.000000	500.000000	2/4

1577	**ACC_DENOM_FILTER_FREQU2**				D01, EXP	**QV:** DÜ1	
	Natural denominator freq., accel. filter 2				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	2.000000	8000.000000	2/4

1578	**ACC_DENOM_FILTER_DAMP2**				D01, EXP	**QV:** DÜ1	
	Denominator attenuation, accel. filter 2				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	10.000000	2/4

1579	**ACC_NOM_FILTER_FREQU2**				D01, EXP	**QV:** DÜ1	
	Natural numerator frequ., accel. filter 2				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	2.000000	8000.000000	2/4

1580	**ACC_NOM_FILTER_DAMP2**				D01, EXP	**QV:** DÜ1	
	Numerator attenuation, accel. filter 2				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	10.000000	2/4

1581	**ACC_DENOM_FILTER_FREQU3**				D01, EXP	**QV:** DÜ1	
	Natural denominator frequ., accel. filter 3				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	2.000000	8000.000000	2/4

1582	**ACC_DENOM_FILTER_DAMP3**				D01, EXP	**QV:** DÜ1	
	Denominator attenuation, accel. filter 3				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	10.000000	2/4

1583	**ACC_NOM_FILTER_FREQU3**				D01, EXP	**QV:** DÜ1	
	Natural numerator frequ., accel. filter 3				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	2.000000	8000.000000	2/4

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1584	ACC_NOM_FILTER_DAMP3				D01, EXP	QV: DÜ1	
	Numerator attenuation, accel. filter 3				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	10.000000	2/4

1585	ACC_FILTER_TIME4				D01	QV: DÜ1	
	Time constant of acc. filter 4				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	ms	1.000000	0.000000	500.000000	2/4

1586	ACC_DENOM_FILTER_FREQU4				D01, EXP	QV: DS1	
	Denominator natural frequency acc. filter 4				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	2.000000	8000.000000	2/4

1587	ACC_DENOM_FILTER_DAMP4				D01, EXP	QV: DS1	
	Denominator damping acc. filter 4				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	10.000000	2/4

1588	ACC_NOM_FILTER_FREQU4				D01, EXP	QV: DS1	
	Numerator natural frequency acc. filter 4				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	2.000000	8000.000000	2/4

1589	ACC_NOM_FILTER_DAMP4				D01, EXP	QV: DS1	
	Numerator damping acc. filter 4				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	10.000000	2/4

1590	ACC_FILTER_TIME5				D01	QV: DS1	
	Time constant of acc. filter 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	ms	1.000000	0.000000	500.000000	2/4

1591	ACC_DENOM_FILTER_FREQU5				D01, EXP	QV: DS1	
	Denominator natural frequency acc. filter 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	2.000000	8000.000000	2/4

1592	ACC_DENOM_FILTER_DAMP5				D01, EXP	QV: DS1	
	Denominator damping acc. filter 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	10.000000	2/4

1593	ACC_NOM_FILTER_FREQU5				D01, EXP	QV: DS1	
	Numerator natural frequency acc. filter 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	Hz	2000.000000	2.000000	8000.000000	2/4

1594	ACC_NOM_FILTER_DAMP5				D01, EXP	QV: DS1	
	Numerator damping acc. filter 5				FLOAT	Immediately	
P2 840D	HSA SLM VSA	ROT/LIN	-	0.500000	0.000000	10.000000	2/4

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1600	**ALARM_MASK_POWER_ON**				D02, EXP	**QV:** DB1	
	Suppressible alarms (Power-On)				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	83be	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x83be	2/4

1601	**ALARM_MASK_RESET**				D02, EXP	**QV:** DB1	
	Suppressible alarms (reset)				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xFFFF	2/4

1602	**MOTOR_TEMP_WARN_LIMIT**				D05, D02	**QV:** DÜ1	
	Motor temperature alarm threshold				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	degrees C	120	0	200	2/4
P2 840D	HSA SLM VSA	ROT/LIN	degrees C	120	0	200	2/4

1603	**MOTOR_TEMP_ALARM_TIME**				D05, D02	**QV:** DÜ1	
	Time for motor temperature alarm				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	s	240	0	600	2/4
P2 840D	HSA SLM VSA	ROT/LIN	s	240	0	600	2/4

1604	**LINK_VOLTAGE_WARN_LIMIT**				D02, EXP	**QV:** DÜ1	
	DC-link undervoltage alarm threshold				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	V	200	0	600	2/4
840D	VSA/HSA	ROT/LIN	V	200	0	680	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	200	0	680	2/4

1605	**SPEEDCTRL_LIMIT_TIME**				D02	**QV:** DÜ1	
	Time n-controller at limit stop				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	ms	200.0000	20.0000	10000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	200.000000	20.000000	10000.000000	2/4

1606	**SPEEDCTRL_LIMIT_THRESHOLD**				D02	**QV:** DÜ1, DL1	
	Threshold n-controller at limit stop				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	8000.0000	0.0000	50000.0000	2/4
840D	VSA/HSA	ROT	1/min	90000.0000	0.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT	1/min	8000.000000	0.000000	100000.000000	2/4

1606	**SPEEDCTRL_LIMIT_THRESHOLD**				D02	**QV:** DÜ1, DL1	
	Threshold speed controller limit				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	500.0000	0.0000	100000.0000	2/4
P2 840D	SLM	LIN	1/min	500.000000	-	-	2/4

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1607	MOTOR_TEMP_SHUTDOWN_LIMIT				D05, D02	QV: DÜ1	
	Motor temperature shutdown limit				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	degrees C	155	0	200	2/4
P2 840D	HSA SLM VSA	ROT/LIN	degrees C	155	0	200	2/4

1608	MOTOR_FIXED_TEMPERATURE				D05, D02	QV: DÜ1	
	Fixed temperature				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	degrees C	0	0	200	2/4
P2 840D	HSA SLM VSA	ROT/LIN	degrees C	0	0	200	2/4

1610	DIAGNOSIS_ACTIVATION_FLAGS				D04, EXP	QV: DD1	
	Diagnostic functions				UNS.WORD	Power On	
840D	VSA/HSA	ROT/LIN	-	0	0	3	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x0003	2/4

1611	DNDT_THRESHOLD				D04, EXP	QV: DD1	
	Response threshold dn/dt				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	%	800	0	1600	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	800	0	1600	2/4

1612	ALARM_REACTION_POWER_ON				D02	QV: DB1	
	Configuring shutdown response to PO alarms				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	db2	0	ffff	2/4
840D	VSA/HSA	ROT/LIN	-	fbc	0	ffff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0fbc	0x0000	0xffff	2/4

1613	ALARM_REACTION_RESET				D02	QV: DB1	
	Configuring shutdown response to RESET alarms				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	100	0	ffff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0100	0x0000	0xffff	2/4

1615	SMOOTH_RUN_TOL				EXP	QV: DD1, DL1	
	Smooth running monitoring tolerance				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	2.0000	0.0000	100.0000	0/0
840D	VSA/HSA	ROT	1/min	2.0000	0.0000	100.0000	0/0
P2 840D	HSA SLM VSA	ROT	1/min	2.000000	0.000000	100.000000	0/0

1615	SMOOTH_RUN_TOL				EXP	QV: DD1, DL1	
	Tolerance bandwidth for the smooth running monit.				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	0.2000	0.0000	100.0000	0/0
P2 840D	SLM	LIN	1/min	0.200000	-	-	0/0

1620	PROG_SIGNAL_FLAGS				D03	QV: DD1	
	Variable message function bits				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	7	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0x000f	2/4

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1621	**PROG_SIGNAL_NR**				D03	**QV:** DD1	
	Signal number, variable message function				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	100	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	100	2/4

1622	**PROG_SIGNAL_ADDRESS**				D03	**QV:** DD1	
	Address, variable message function				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

1623	**PROG_SIGNAL_THRESHOLD**				D03	**QV:** DD1	
	Threshold, variable message function				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	16777215	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	16777215	2/4

1624	**PROG_SIGNAL_HYSTERESIS**				D03	**QV:** DD1	
	Hysteresis, variable message function				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	16777215	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	16777215	2/4

1625	**PROG_SIGNAL_ON_DELAY**				D03	**QV:** DD1	
	Pickup delay time, variable message function				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	ms	0	0	10000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0	0	10000	2/4

1626	**PROG_SIGNAL_OFF_DELAY**				D03	**QV:** DD1	
	Dropout delay, variable message function				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	ms	0	0	10000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0	0	10000	2/4

1630	**LINK_VOLTAGE_MON_THRESHOLD**				EXP	**QV:** DÜ1	
	Response threshold, only DC link monitoring				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	V	550	0	680	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	550	0	680	2/4

1631	**LINK_VOLTAGE_GEN_ON**				EXP	**QV:** DE1	
	Response voltage of generator axis				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	V	450	280	650	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	450	280	650	2/4

1632	**LINK_VOLTAGE_GEN_HYST**				EXP	**QV:** DE1	
	Voltage range for generator control				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	V	30	0	300	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	30	0	300	2/4

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1633	LINK_VOLTAGE_GEN_OFF				EXP	QV: DE1	
	Shutdown threshold of generator operation				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	V	510	0	660	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	510	0	660	2/4

1634	LINK_VOLTAGE_RETRACT				EXP	QV: DE1	
	Response threshold emergency retraction				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	V	400	0	660	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	400	0	660	2/4

1635	GEN_AXIS_MIN_SPEED				EXP	QV: DE1, DL1	
	Minimum speed of the generator axis				FLOAT	Immediately	
840D	VSA/HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	0.000000	100000.000000	2/4

1635	GEN_AXIS_MIN_SPEED				EXP	QV: DE1, DL1	
	Minimum speed generator axis				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	0.0000	0.0000	100000.0000	2/4

1636	RETRACT_AND_GENERATOR_MODE				EXP	QV: DE1	
	Operating mode emergency retraction/gen. operation				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	7	2/4
P2 810D	HSA SLM VSA	ROT/LIN	-	0	0	0	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	7	2/4

1637	GEN_STOP_DELAY				EXP	QV: DE1	
	Delay time for regenerative braking				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	ms	0	0	10000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0	0	10000	2/4

1638	RETRACT_TIME				EXP	QV: DE1	
	Emergency retraction time				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	ms	0	0	10000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0	0	10000	2/4

1639	RETRACT_SPEED				EXP	QV: DE1, DL1	
	Emergency retraction speed				DWORD	Immediately	
840D	VSA/HSA	ROT	-	0	-4194304	4194304	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	-4194304	4194304	2/4

1639	RETRACT_SPEED				EXP	QV: DE1, DL1	
	Emergency retraction speed				DWORD	Immediately	
840D	VSA/HSA	LIN	-	0	-4194304	4194304	2/4

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1650	**DIAGNOSIS_CONTROL_FLAGS**				D04, EXP	**QV:** DD1, DE1	
	Diagnostic control				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xffff	2/4

1651	**MINMAX_SIGNAL_NR**				D04, EXP	**QV:** DD1	
	Signal number min./max. memory				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	100	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	100	2/4

1652	**MINMAX_ADDRESS**				D04, EXP	**QV:** DD1	
	Memory cell, min./max. memory				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

1653	**MINMAX_MIN_VALUE**				D04, EXP	**QV:** DD1	
	Minimum value, min./max. memory				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	16777215	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	16777215	2/4

1654	**MINMAX_MAX_VALUE**				D04, EXP	**QV:** DD1	
	Maximum value, min./max. memory				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	16777215	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	16777215	2/4

1655	**MONITOR_SEGMENT**				D04, EXP	**QV:** DD1	
	Segment of memory cell for monitor				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	1	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	1	2/4

1656	**MONITOR_ADDRESS**				D04, EXP	**QV:** DD1	
	Address of memory cell for monitor				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	0x00FFFFFF	2/4

1657	**MONITOR_DISPLAY**				D04, EXP	**QV:** DD1	
	Display monitor value				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	16777215	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-		0	0x00FFFFFF	2/4

1658	**MONITOR_INPUT_VALUE**				D04, EXP	**QV:** DD1	
	Entry of monitor value				UNS.DWORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	16777215	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	16777215	2/4

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1659	MONITOR_INPUT_STROBE				D04, EXP	QV: DD1	
	Transference of monitor value				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	1	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	1	2/4

1660	UF_MODE_FREQUENCY				EXP	QV: DE1	
	Motor frequency V/f mode				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	Hz	0.0000	-10000.0000	10000.0000	0/0
P2 840D	HSA SLM VSA	ROT/LIN	Hz	0.000000	-10000.000000	10000.000000	0/0

1661	UF_MODE_RATIO				EXP	QV: DE1	
	V/f ratio in V/f mode				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	Vs	2.4000	0.0000	100.0000	0/0
P2 840D	HSA SLM VSA	ROT/LIN	Vs	2.400000	0.000000	100.000000	0/0

1662	UF_MODE_DELTA_FREQUENCY				EXP	QV: DE1	
	Changing the motor frequency of V/f operation				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	Hz	5.0000	0.0000	10000.0000	0/0
P2 840D	HSA SLM VSA	ROT/LIN	Hz	5.000000	0.000000	10000.000000	0/0

1665	IPO_SPEEDCTRL_DELAY_FACTOR				EXP	QV: IAD	
	Run-time factor IPO/SC cycles f. RFG				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	-	2.0000	0.0000	20.0000	0/0
P2 840D	HSA SLM VSA	ROT/LIN	-	2.000000	0.000000	20.000000	0/0

1700	TERMINAL_STATE				D04	QV: DD1	
	Status of binary inputs				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	7fff	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	ffff	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0x0000	0x0000	0xffff	2/4

1701	LINK_VOLTAGE				D04	QV: DD1	
	DC link voltage				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	V	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	V	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	0	0		2/4

1702	MOTOR_TEMPERATURE				D04	QV: DD1	
	Motor temperature				WORD	Immediately	
840D	VSA/HSA	ROT/LIN	degrees C	0	0	32767	2/4
P2 840D	HSA SLM VSA	ROT/LIN	degrees C	0	0	32767	2/4

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1703	**LEAD_TIME_MOTOR_ENC**				EXP	**QV:** DD1	
	Leadtime for motor measuring system converter				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	µs	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	µs	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µs	0	0	65535	2/4

1704	**LEAD_TIME_DIRECT_ENC**				EXP	**QV:** DD1	
	Leadtime for direct measuring system converter				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	µs	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	µs	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µs	0	0	65535	2/4

1705	**DESIRED_VOLTAGE**				D04	**QV:** DD1	
	Voltage setpoint (rms)				FLOAT	Immediately	
840D	VSA/HSA	ROT	V	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	V	0.000000	-100000.000000	100000.000000	2/4

1705	**DESIRED_VOLTAGE**				D04	**QV:** DD1	
	Voltage setpoint (rms)				FLOAT	Immediately	
840D	VSA/HSA	LIN	V	0.0000	-100000.0000	100000.0000	2/4

1706	**DESIRED_SPEED**				D04	**QV:** DD1, DL1	
	Speed setpoint				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	1/min	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT/LIN	1/min	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	-100000.000000	100000.000000	2/4

1707	**ACTUAL_SPEED**				D04	**QV:** DD1, DL1	
	Actual speed value				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT	1/min	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	-100000.000000	100000.000000	2/4

1707	**ACTUAL_SPEED**				D04	**QV:** DD1, DL1	
	Speed actual value				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	0.0000	-100000.0000	100000.0000	2/4

1708	**ACTUAL_CURRENT**				D04	**QV:** DD1	
	Smoothed actual current value				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	%	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT/LIN	%	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	0.000000	-100000.000000	100000.000000	2/4

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1709	VOLTAGE_LSB				EXP	QV: DD1	
	Significance of voltage representation				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	-	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT/LIN	-	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0.000000	-100000.000000	100000.000000	2/4

1710	CURRENT_LSB				EXP	QV: DD1	
	Significance of current representation				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	µA	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT/LIN	µA	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µA	0.000000	-100000.000000	100000.000000	2/4

1711	SPEED_LSB				EXP	QV: DD1, DL1	
	Significance of the speed representation				FLOAT	Immediately	
810D	VSA/HSA	ROT	1/min	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT	1/min	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	1/min	0.000000	-100000.000000	100000.000000	2/4

1711	SPEED_LSB				EXP	QV: DD1, DL1	
	Significance of the speed representation				FLOAT	Immediately	
840D	VSA/HSA	LIN	1/min	0.0000	-100000.0000	100000.0000	2/4

1712	ROTOR_FLUX_LSB				EXP	QV: DD1	
	Significance of the rotor flux representation				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	µVs	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT/LIN	µVs	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	µVs	0.000000	-100000.000000	100000.000000	2/4

1713	TORQUE_LSB				EXP	QV: DD1, DL1	
	Significance of the torque representation				FLOAT	Immediately	
810D	VSA/HSA	ROT	µNm	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT	µNm	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT	µNm	0.000000	-100000.000000	100000.000000	2/4

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1713	**FORCE_LSB**				EXP	**QV:** DD1, DL1	
	Significance of the force representation				FLOAT	Immediately	
840D	VSA/HSA	LIN	µN	0.0000	-1000000.0000	1000000.0000	2/4
P2 840D	SLM	LIN	µN	.-	-1000000.000000	1000000.000000	2/4

1714	**ROTOR_POS_LSB**				EXP	**QV:** DD1	
	Significance of rotor position representation				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	degrees	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT/LIN	degrees	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	degrees	0.000000	-100000.000000	100000.000000	2/4

1719	**ABS_ACTUAL_CURRENT**				D04	**QV:** DD1	
	Absolute current setpoint value (rms)				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	A	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	A	0.000000	-100000.000000	100000.000000	2/4

1720	**CRC_DIAGNOSIS**				D04, EXP	**QV:** DD1	
	CRC diagnostic parameter				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

1721	**ACCEL_DIAGNOSIS**				D04, EXP	**QV:** DD1	
	Diagnostics, actual speed value				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

1722	**LOAD**				D04	**QV:** DD1	
	Utilization				FLOAT	Immediately	
810D	VSA/HSA	ROT/LIN	%	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT/LIN	%	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	0.000000	-100000.000000	100000.000000	2/4

1723	**ACTUAL_RAMP_TIME**				EXP	**QV:** DD1	
	Diagnostics, ramp-up time				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	ms	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	ms	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	ms	0	0	65535	2/4

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1724	SMOOTH_RUN_DIAGNOSIS				EXP	QV: DD1	
	Diagnostics, smooth running monitoring				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

1725	MAX_TORQUE_FROM_NC				EXP	QV: DD1,DL1	
	Standardising the torque setpoint average				FLOAT	Immediately	
810D	VSA/HSA	ROT	Nm	0.0000	0.0000	32767.0000	2/4
840D	VSA/HSA	ROT	Nm	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	Nm	0.000000	-100000.000000	100000.000000	2/4

1725	MAX_FORCE_FROM_NC				EXP	QV: DD1,DL1	
	Rating force setpoint interface				FLOAT	Immediately	
840D	VSA/HSA	LIN	N	0.0000	-1000000.0000	1000000.0000	2/4

1728	DESIRED_TORQUE				D04	QV: F1	
	Torque setpoint				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	%	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	0.000000	-100000.000000	100000.000000	2/4

1729	ACTUAL_ELECTRIC_ROTORPOS				D04	QV: FBU, POS3	
	Current rotor position (electr.)				FLOAT	Immediately	
840D	VSA/HSA	ROT/LIN	degrees	0.0000	-100000.0000	100000.0000	2/4
P2 840D	HSA SLM VSA	ROT/LIN	degrees	0.000000	-100000.000000	100000.000000	2/4

1730	OPERATING_MODE				D04	QV: DD1	
	Operating mode display				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	1	1	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	1	1	65535	2/4

1731	CL1_PO_IMAGE				D04, EXP	QV: DB1	
	Image ZK1_PO register				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

1732	CL1_RES_IMAGE				D04, EXP	QV: DB1	
	Image ZK1_RES register				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

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1733	**LPFC_DIAGNOSIS**				EXP	**QV:** DD1	
	NPFK diagnosis counter				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

1734	**DIAG_ROTORPOS_IDENT**				-	**QV:** DM1	
	Rotor position identification diagnosis				WORD	Immediately	
840D	VSA	ROT/LIN	-	0	-7	3	2/4
P2 840D	SLM VSA	ROT/LIN	-	0	-1018	6	2/4

1735	**PROCESSOR_LOAD**				-	**QV:** DD1	
	Processor load				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	%	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	%	0	0	65535	2/4

1736	**TEST_ROTORPOS_IDENT**				D04	**QV:** DM1	
	Rotor position identification				UNS.WORD	Immediately	
840D	VSA	ROT/LIN	-	0	0	1	2/4
P2 840D	VSA SLM	ROT/LIN	-	0	0	3	2/4

1737	**DIFF_ROTORPOS_IDENT**				-	**QV:** DM1	
	Rotor position identification difference				FLOAT	Immediately	
840D	VSA	ROT/LIN	degrees	0.0000	-100000.0000	100000.0000	2/4
P2 840D	VSA SLM	ROT/LIN	degrees	0.000000	-100000.000000	100000.000000	2/4

1790	**ENC_TYPE_MOTOR**				D04, D06	**QV:** DG1	
	Measuring circuit type, indirect measuring system				WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	-1	32767	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	-1	32767	2/4

1791	**ENC_TYPE_DIRECT**				D04, D06	**QV:** DG1	
	Measuring circuit type, direct measuring system				WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	-1	32767	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	-1	32767	2/4

1796	**HW_VERSION**				EXP	**QV:** FBA	
	Hardware version				UNS.WORD	Immediately	
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

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1797	PBL_VERSION				EXP	QV: DD1	
	Data version				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

1798	FIRMWARE_DATE				D04, EXP	QV: DD1	
	Firmware date				UNS.WORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	65535	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	65535	2/4

1799	FIRMWARE_VERSION				D04	QV: DD1	
	Firmware release				UNS.DWORD	Immediately	
810D	VSA/HSA	ROT/LIN	-	0	0	32767	2/4
840D	VSA/HSA	ROT/LIN	-	0	0	2147483647	2/4
P2 840D	HSA SLM VSA	ROT/LIN	-	0	0	4294967295	2/4

2005	ENC_RESOL_MOTOR_M2				D06	QV:	
	Motor measuring system encoder increments				UNS.WORD	Power On	
840D	HSA	ROT	-	2048	1	65535	2/4

2098	INVERTER_MAX_CURR_DERAT_M2				D05	QV: DE1, DM1	
	PS derating limit current				FLOAT	Immediately	
840D	HSA	ROT	A	200.0000	0.0000	500.0000	2/4

2099	INVERTER_DERATING_FACT_M2				D05	QV: DE1, DM1	
	PS limit current derating				FLOAT	Immediately	
840D	HSA	ROT	%	0.0000	0.0000	100.0000	2/4

2100	PWM_FREQUENCY_M2				D01, D05, EXP	QV:	
	Pulse-width modulation frequency				FLOAT	Power On	
840D	HSA	ROT	Hz	3200.0000	2000.0000	8000.0000	2/4

2102	MOTOR_CODE_M2				D04, D05	QV:	
	Motor code number				UNS.WORD	Power On	
840D	HSA	ROT	-	0	0	65535	2/4

2103	MOTOR_NOMINAL_CURRENT_M2				D05	QV:	
	Motor rated current				FLOAT	Power On	
840D	HSA	ROT	A	0.0000	0.0000	500.0000	2/4

2117	MOTOR_INERTIA_M2				D05	QV:	
	Motor moment of inertia				FLOAT	Immediately	
840D	HSA	ROT	kgm^2	0.0010	0.0000	32.0000	2/4

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2119	**SERIES_INDUCTANCE_M2**				D05	**QV:**	
	Inductance of the series reactor				FLOAT	Power On	
840D	HSA	ROT	mH	0.0000	0.0000	65.0000	2/4

2120	**CURRCTRL_GAIN_M2**				D01, EXP	**QV:**	
	Current controller P gain				FLOAT	Immediately	
840D	HSA	ROT	V/A	10.0000	0.0000	10000.0000	2/4

2121	**CURRCTRL_INTEGRATOR_TIME_M2**				D01, EXP	**QV:**	
	Current controller integral action time				FLOAT	Immediately	
840D	HSA	ROT	µs	2000.0000	0.0000	8000.0000	2/4

2125	**UF_MODE_RAMP_TIME_1_M2**				D04, EXP	**QV:**	
	Ramp-up time 1 in V/f operation				FLOAT	Immediately	
840D	HSA	ROT	s	5.0000	0.0100	100.0000	2/4

2126	**UF_MODE_RAMP_TIME_2_M2**				D04, EXP	**QV:**	
	Ramp-up time 2 in V/f operation				FLOAT	Immediately	
840D	HSA	ROT	s	5.0000	0.0100	100.0000	2/4

2127	**UF_VOLTAGE_AT_F0_M2**				D04, D05, EXP	**QV:**	
	Voltage at f=0 in V/f operation				FLOAT	Immediately	
840D	HSA	ROT	V	2.0000	0.0000	20.0000	2/4

2129	**POWER_FACTOR_COS_PHI_M2**				D05	**QV:**	
	Cos phi power factor				FLOAT	Power On	
840D	HSA	ROT	-	0.8000	0.0000	1.0000	2/4

2130	**MOTOR_NOMINAL_POWER_M2**				D05	**QV:**	
	Rated motor output				FLOAT	Power On	
840D	HSA	ROT	kW	0.0000	0.0000	1500.0000	2/4

2132	**MOTOR_NOMINAL_VOLTAGE_M2**				D05	**QV:**	
	Rated motor voltage				FLOAT	Power On	
840D	HSA	ROT	V	380.0000	0.0000	5000.0000	2/4

2134	**MOTOR_NOMINAL_FREQUENCY_M2**				D05	**QV:**	
	Rated motor frequency				FLOAT	Power On	
840D	HSA	ROT	Hz	50.0000	0.0000	3000.0000	2/4

2135	**MOTOR_NOLOAD_VOLTAGE_M2**				D05	**QV:**	
	Motor no-load voltage				FLOAT	Immediately	
840D	HSA	ROT	V	0.0000	0.0000	500.0000	2/4

2136	**MOTOR_NOLOAD_CURRENT_M2**				D05	**QV:**	
	Motor no-load current				FLOAT	Immediately	
840D	HSA	ROT	A	0.0000	0.0000	500.0000	2/4

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2137	STATOR_COLD_RESISTANCE_M2				D05	QV:	
	Cold stator resistance				FLOAT	Immediately	
840D	HSA	ROT	Ohm	0.0000	0.0000	120.0000	2/4

2138	ROTOR_COLD_RESISTANCE_M2				D05	QV:	
	Cold rotor resistance				FLOAT	Immediately	
840D	HSA	ROT	Ohm	0.0000	0.0000	120.0000	2/4

2139	STATOR_LEAKAGE_REACTANCE_M2				D05	QV:	
	Stator leakage reactance				FLOAT	Immediately	
840D	HSA	ROT	Ohm	0.0000	0.0000	100.0000	2/4

2140	ROTOR_LEAKAGE_REACTANCE_M2				D05	QV:	
	Rotor leakage reactance				FLOAT	Immediately	
840D	HSA	ROT	Ohm	0.0000	0.0000	100.0000	2/4

2141	MAGNETIZING_REACTANCE_M2				D05	QV:	
	Magnetizing reactance				FLOAT	Immediately	
840D	HSA	ROT	Ohm	0.0000	0.0000	1000.0000	2/4

2142	FIELD_WEAKENING_SPEED_M2				D05	QV:	
	Threshold speed for field weakening				FLOAT	Immediately	
840D	HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4

2143	LH_CURVE_UPPER_SPEED_M2				-	QV:	
	Upper speed for the L_h characteristic				FLOAT	Power On	
840D	HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4

2144	LH_CURVE_GAIN_M2				-	QV:	
	Gain factor of the L_h characteristic				FLOAT	Power On	
840D	HSA	ROT	%	100.0000	100.0000	500.0000	2/4

2145	STALL_TORQUE_REDUCTION_M2				D05	QV:	
	Stall torque reduction factor				FLOAT	Immediately	
840D	HSA	ROT	%	100.0000	5.0000	1000.0000	2/4

2146	MOTOR_MAX_ALLOWED_SPEED_M2				D05	QV:	
	Maximum motor speed				FLOAT	Power On	
840D	HSA	ROT	1/min	1500.0000	0.0000	100000.0000	2/4

2147	SPEED_LIMIT_M2				D05, D02	QV:	
	Motor speed limit				FLOAT	Immediately	
840D	HSA	ROT	1/min	8000.0000	0.0000	100000.0000	2/4

2148	ACTUAL_STALL_POWER_SPEED_M2				D04	QV:	
	Threshold speed of pull-out power				FLOAT	Immediately	
840D	HSA	ROT	1/min	0.0000	-100000.0000	100000.0000	2/4

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2150	**FIELDCTRL_GAIN_M2**				D01, EXP	**QV:**	
	Flux controller P-gain				FLOAT	Immediately	
840D	HSA	ROT	A/(Vs)	400.0000	0.0000	100000.0000	2/4

2151	**FIELDCTRL_INTEGRATOR_TIME_M2**				D01, EXP	**QV:**	
	Flux controller integral-action time				FLOAT	Immediately	
840D	HSA	ROT	ms	10.0000	0.0000	500.0000	2/4

2160	**FLUX_ACQUISITION_SPEED_M2**				D01, EXP	**QV:**	
	Threshold speed for flux sensing				FLOAT	Immediately	
840D	HSA	ROT	1/min	1500.0000	200.0000	100000.0000	2/4

2185	**STARTUP_FACT_CURRCTRL_M2**				-	**QV:**	
	Startup factor P-IREG (M2)				FLOAT	Immediately	
840D	HSA	ROT	%	100.0000	0.0000	10000.0000	2/4

2190	**TORQUE_LIMIT_FROM_NC_M2**				D02, EXP	**QV:**	
	Evaluation of torque limit				FLOAT	Immediately	
840D	HSA	ROT	Nm	100.0000	0.0000	10000.0000	2/4

2192	**TORQUE_LIMIT_WEIGHT_M2**				D02, EXP	**QV:**	
	Weight torque				FLOAT	Immediately	
840D	HSA	ROT	%	0.0000	-100.0000	100.0000	2/4

2230	**TORQUE_LIMIT_1_M2**				D02, EXP	**QV:**	
	1st torque limit				FLOAT	Immediately	
840D	HSA	ROT	%	100.0000	5.0000	900.0000	2/4

2231	**TORQUE_LIMIT_2_M2**				D02, EXP	**QV:**	
	2nd torque limit				FLOAT	Immediately	
840D	HSA	ROT	%	100.0000	5.0000	100.0000	2/4

2232	**TORQUE_LIMIT_SWITCH_SPEED_M2**				D02, EXP	**QV:**	
	Changeover speed from MD 1230 to MD 1231				FLOAT	Immediately	
840D	HSA	ROT	1/min	6000.0000	0.0000	100000.0000	2/4

2233	**TORQUE_LIMIT_GENERATOR_M2**				D02, EXP	**QV:**	
	Regenerative limiting				FLOAT	Immediately	
840D	HSA	ROT	%	100.0000	5.0000	100.0000	2/4

2234	**TORQUE_LIMIT_SWITCH_HYST_M2**				D02, EXP	**QV:**	
	Hysteresis MD 1232				FLOAT	Immediately	
840D	HSA	ROT	1/min	50.0000	0.0000	1000.0000	2/4

2235	**POWER_LIMIT_1_M2**				D02, EXP	**QV:**	
	1st power limit				FLOAT	Immediately	
840D	HSA	ROT	%	100.0000	5.0000	900.0000	2/4

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2236	POWER_LIMIT_2_M2				D02, EXP	QV:	
	2nd power limit				FLOAT	Immediately	
840D	HSA	ROT	%	100.0000	5.0000	100.0000	2/4

2238	CURRENT_LIMIT_M2				D02	QV:	
	Motor current limit				FLOAT	Immediately	
840D	HSA	ROT	%	150.0000	0.0000	400.0000	2/4

2239	TORQUE_LIMIT_FOR_SETUP_M2				D02	QV:	
	Torque limit in setting-up operation				FLOAT	Immediately	
840D	HSA	ROT	%	1.0000	0.5000	100.0000	2/4

2245	CURRENT_SMOOTH_SPEED_M2				EXP	QV:	
	Threshold speed dep. on M setpoint smoothing				FLOAT	Immediately	
840D	HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4

2246	CURRENT_SMOOTH_HYSTERESIS_M2				EXP	QV:	
	Hysteresis speed dep. M setpoint smoothing				FLOAT	Immediately	
840D	HSA	ROT	1/min	50.0000	0.0000	1000.0000	2/4

2400	MOTOR_RATED_SPEED_M2				D05	QV:	
	Rated motor speed				FLOAT	Power On	
840D	HSA	ROT	1/min	1450.0000	0.0000	100000.0000	2/4

2401	MOTOR_MAX_SPEED_M2				D05, D02	QV:	
	Maximum usable motor speed				FLOAT	Power On	
840D	HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4

2403	PULSE_SUPPRESSION_SPEED_M2				D02	QV:	
	Shut down speed pulse suppression				FLOAT	Immediately	
840D	HSA	ROT	1/min	2.0000	0.0000	7200.0000	2/4

2405	MOTOR_SPEED_LIMIT_M2				D05, D02	QV:	
	Monitoring motor speed				FLOAT	Immediately	
840D	HSA	ROT	%	110.0000	100.0000	110.0000	2/4

2407	SPEEDCTRL_GAIN_1_M2				D01, D08	QV:	
	P gain of speed controller				FLOAT	Immediately	
840D	HSA	ROT	Nms/rad	0.3000	0.0000	1000000.0000	2/4

2408	SPEEDCTRL_GAIN_2_M2				D01, EXP	QV:	
	P gain of upper adaptation speed				FLOAT	Immediately	
840D	HSA	ROT	Nms/rad	0.3000	0.0000	1000000.0000	2/4

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2409	**SPEEDCTRL_INTEGRATOR_TIME_1_M2**				D01, D08	**QV:**	
	Integral action time of speed controller				FLOAT	Immediately	
840D	HSA	ROT	ms	10.0000	0.0000	500.0000	2/4

2410	**SPEEDCTRL_INTEGRATOR_TIME_2_M2**				D01, EXP	**QV:**	
	Integral action time of upper adaptation speed				FLOAT	Immediately	
840D	HSA	ROT	ms	10.0000	0.0000	500.0000	2/4

2411	**SPEEDCTRL_ADAPT_SPEED_1_M2**				D01, EXP	**QV:**	
	Lower adaptation speed				FLOAT	Immediately	
840D	HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4

2412	**SPEEDCTRL_ADAPT_SPEED_2_M2**				D01, EXP	**QV:**	
	Upper adaptation speed				FLOAT	Immediately	
840D	HSA	ROT	1/min	0.0000	0.0000	100000.0000	2/4

2413	**SPEEDCTRL_ADAPT_ENABLE_M2**				D01, EXP	**QV:**	
	Select adaptation speed controller				UNS.WORD	Immediately	
840D	HSA	ROT	-	0	0	1	2/4

2417	**SPEED_THRESHOLD_X_M2**				D03	**QV:**	
	Signal n_x for 'n_act < n_x'				FLOAT	Immediately	
840D	HSA	ROT	1/min	6000.0000	0.0000	100000.0000	2/4

2418	**SPEED_THRESHOLD_MIN_M2**				D03	**QV:**	
	Signal n_min for 'n_act < n_min'				FLOAT	Immediately	
840D	HSA	ROT	1/min	5.0000	0.0000	100000.0000	2/4

2426	**SPEED_DES_EQ_ACT_TOL_M2**				D03	**QV:**	
	Tolerance bandwidth for 'n_act = n_set' signal				FLOAT	Immediately	
840D	HSA	ROT	1/min	20.0000	0.0000	10000.0000	2/4

2451	**SPEEDCTRL_GAIN_1_AM_M2**				D01	**QV:**	
	P gain of speed control loop IM				FLOAT	Immediately	
840D	HSA	ROT	Nms/rad	0.3000	0.0000	100000.0000	2/4

2453	**SPDCTRL_INTEGR_TIME_1_AM_M2**				D01	**QV:**	
	Integral action time of speed control loop IM				FLOAT	Immediately	
840D	HSA	ROT	ms	140.0000	0.0000	6000.0000	2/4

2458	**DES_CURRENT_OPEN_LOOP_AM_M2**				D01	**QV:**	
	Current setpoint controlled range IM				FLOAT	Immediately	
840D	HSA	ROT	%	90.0000	0.0000	150.0000	2/4

2459	**TORQUE_SMOOTH_TIME_AM_M2**				D01	**QV:**	
	Torque smoothing time constant IM				FLOAT	Immediately	
840D	HSA	ROT	ms	4.0000	0.0000	100.0000	2/4

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2465	SWITCH_SPEED_MSD_AM_M2				D01, D06	QV:	
	Changeover speed MSD/IM				FLOAT	Immediately	
840D	HSA	ROT	1/min	100000.0000	0.0000	100000.0000	2/4

2466	SWITCH_SPD_OPEN_LOOP_AM_M2				D01	QV:	
	Changeover speed closed/open loop IM				FLOAT	Immediately	
840D	HSA	ROT	1/min	300.0000	150.0000	100000.0000	2/4

2602	MOTOR_TEMP_WARN_LIMIT_M2				D05, D02	QV:	
	Motor temperature alarm threshold				UNS.WORD	Immediately	
840D	HSA	ROT	degrees C	120	0	200	2/4

2607	MOTOR_TEMP_SHUTDOWN_LIMIT_M2				D05, D02	QV:	
	Motor temperature shutdown limit				UNS.WORD	Immediately	
840D	HSA	ROT	degrees C	155	0	200	2/4

2608	MOTOR_FIXED_TEMPERATURE_M2				D05, D02	QV:	
	Fixed temperature				UNS.WORD	Immediately	
840D	HSA	ROT	degrees C	0	0	200	2/4

2711	SPEED_LSB_M2				EXP	QV:	
	Significance of the speed representation				FLOAT	Immediately	
840D	HSA	ROT	1/min	0.0000	-100000.0000	100000.0000	2/4

2712	ROTOR_FLUX_LSB_M2				EXP	QV:	
	Significance of the rotor flux representation				FLOAT	Immediately	
840D	HSA	ROT	µVs	0.0000	-100000.0000	100000.0000	2/4

2713	TORQUE_LSB_M2				EXP	QV:	
	Significance of the torque representation				FLOAT	Immediately	
840D	HSA	ROT	µNm	0.0000	-100000.0000	100000.0000	2/4

2714	ROTOR_POS_LSB_M2				EXP	QV:	
	Significance of rotor position representation				FLOAT	Immediately	
840D	HSA	ROT	degrees	0.0000	-100000.0000	100000.0000	2/4

2725	MAX_TORQUE_FROM_NC_M2				EXP	QV:	
	Standardising the torque setpoint average				FLOAT	Immediately	
840D	HSA	ROT	Nm	0.0000	-100000.0000	100000.0000	2/4

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3.2 Machine data of the hydraulic module

MD-Nummer	Bezeichner				Anzeige-Filter	Verweis	
	Name				Datentyp	Wirksamkeit	
System	Art	Rot/Lin	Einheit	Standardw-ert	Minimalwert	Maximalwert	Schutz

5001	SPEEDCTRL_CYCLE_TIME				D01, EXP	QV: FBHLA	
	Velocity controller clockrate				UNS. WORD	PowerOn	
				4	2	16	3/3

5002	MONITOR_CYCLE_TIME				EXP	QV: FBHLA	
	Monitoring cycle				UNS. WORD	PowerOn	
				3200	128	3200	3/3

5003	STS_CONFIG				EXP	QV: FBHLA	
	STS configuration				UNS. WORD	PowerOn	
				330	0	7F0	3/3

5004	CTRL_CONFIG				D01	QV: FBHLA	
	Configuration structure				UNS. WORD	PowerOn	
				1000	0	1000	3/3

5005	ENC_RESOL_MOTOR				EXP	QV: FBHLA	
	Increments of rotary measuring system				UNS. WORD	PowerOn	
				2048	128	65535	3/3

5008	ENC_PHASE_ERROR_CORRECTION				EXP, D06	QV: FBHLA	
	Encoder phase error compensation				FLOAT	immediately	
				0.0	-20.0	20.0	3/3

5011	ACTUAL_VALUE_CONFIG				D06	QV: FBHLA	
	Configuration of actual value acquisition				UNS. WORD	PowerOn	
				0	0	65535	3/3

5012	FUNC_SWITCH				D01, D02, D03	QV: FBHLA	
	Function switch				UNS. WORD	immediately	
				4	0	65535	3/3

5021	ENC_ABS_TURN_MOTOR				D06	QV: FBHLA	
	Multiturn resol. motor absolute encoder				UNS. WORD	PowerOn	
				0	0	FFFF	3/3

5022	ENC_ABS_RESOL_MOTOR	D06	QV: FBHLA
	Measuring steps of motor absolute track	UNS. DWORD	PowerOn

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				8192	0	7FFFFF	3/3

5023	**ENC_ABS_DIAGNOSIS_MOTOR**				D06	**QV:** FBHLA	
	Diagnosis of measuring circuit motor absolute track				UNS. WORD	immediately	
				0	0	BFFF	3/3

5024	**DIVISION_LIN_SCALE**				D06	**QV:** FBHLA	
	Linear scale graduations				UNS. DWORD	PowerOn	
				20000	1000	5000000	3/3

5025	**SERIAL_NO_ENCODER**				D06, EXP	**QV:** FBHLA	
	Serial no. of motor measuring system				UNS. DWORD	PowerOn	
				0	0	ffffffff	3/3

5027	**ENC_CONFIG**				D06	**QV:** FBHLA	
	Configuration of encoder IM				UNS. WORD	PowerOn	
				0	0	ffff	3/3

5028	**NO_TRANSMISSION_BITS**				D06	**QV:** FBHLA	
	IM message frame length SSI				UNS. WORD	PowerOn	
				25	0	25	3/3

5040	**PISTON_ZERO**				EXP, D04	**QV:** FBHLA	
	Piston zero in relation to machine zero				FLOAT	immediately	
				0.0	-1000000.0	1000000.0	3/3

5041	**MACHINE_ZERO_HIGH**				EXP	**QV:** FBHLA	
	Machine zero in relation to actual position zero				DWORD	immediately	
				0	-2147483647	7FFFFFFF	3/3

5042	**MACHINE_ZERO_LOW**				EXP	**QV:** FBHLA	
	Machine zero in relation to actual position zero				UNS. DWORD	immediately	
				0	0	FFFFFFFF	3/3

5046	**NO_MAX_TESTS**				D06	**QV:** FBHLA	
	Maximum number of SSI tests				UNS. DWORD	immediately	
				33	0	10000	3/3

5047	**VARIANZ_BORDER**				D06	**QV:** FBHLA	
	Variance limit				UNS. DWORD	immediately	
				40	0	10000	3/3

5100	**FLUID_ELASTIC_MODULUS**				D01	**QV:** FBHLA	
	Modulus of elasticity for hydraulic oil				FLOAT	immediately	
				11000	1000	21000	3/3

5101	**WORKING_PRESSURE**				D01	**QV:** FBHLA	
	System pressure				FLOAT	PowerOn	
				0.0	0.0	700.0	3/3

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5102	**PILOT_OPERATION_PRESSURE**				D01	**QV:** FBHLA	
	Pilot pressure				FLOAT	immediately	
				0.0	0.0	350.0	3/3

5106	**VALVE_CODE**				D05, D04	**QV:** FBHLA	
	Valve code number				UNS. WORD	immediately	
				0	0	2000	3/3

5107	**VALVE_NOMINAL_FLOW**				D05	**QV:** FBHLA	
	Valve rated flow				FLOAT	immediately	
				0.0	0.0	1000	3/3

5108	**VALVE_NOMINAL_PRESSURE**				D05	**QV:** FBHLA	
	Valve rated pressure drop				FLOAT	immediately	
				35.0	1.0	200.0	3/3

5109	**VALVE_NOMINAL_VOLTAGE**				D05	**QV:** FBHLA	
	Valve rated voltage				FLOAT	immediately	
				10.0	0.5	15.0	3/3

5110	**VALVE_DUAL_GAIN_FLOW**				D05	**QV:** FBHLA	
	Valve flow knee point				FLOAT	immediately	
				10.0	0.2	95.0	3/3

5111	**VALVE_DUAL_GAIN_VOLTAGE**				D05	**QV:** FBHLA	
	Valve voltage knee point				FLOAT	immediately	
				10.0	0.2	95.0	3/3

5112	**VALVE_FLOW_FACTOR_A_B**				D05	**QV:** FBHLA	
	Valve flow ratio A/B				FLOAT	immediately	
				1.0	0.5	2.0	3/3

5113	**VALVE_CONFIGURATION**				D05	**QV:** FBHLA	
	Valve configuration				UNS. WORD	immediately	
				0	0	13	3/3

5114	**VALVE_NATURAL_FREQUENCY**				D01, D05	**QV:** FBHLA	
	Valve natural frequency				FLOAT	immediately	
				150.0	1.0	1000.0	3/3

5115	**VALVE_DAMPING**				D01, D05	**QV:** FBHLA	
	Valve damping				FLOAT	immediately	
				0.8	0.4	1.0	3/3

5131	**CYLINDER_PISTON_DIAMETER**				D05	**QV:** FBHLA	
	Cylinder piston diameter				FLOAT	PowerOn	
				0.0	0.0	2500.0	3/3

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5132	PISTON_ROD_A_DIAMETER				D05	QV: FBHLA	
	Cylinder piston rod diameter A				FLOAT	PowerOn	
				0.0	0.0	2400.0	3/3

5133	PISTON_ROD_B_DIAMETER				D05	QV: FBHLA	
	Cylinder piston rod diameter B				FLOAT	PowerOn	
				0.0	0.0	2400.0	3/3

5134	PISTON_STROKE				D05	QV: FBHLA	
	Piston stroke				FLOAT	immediately	
				0.0	0.0	3000.0	3/3

5135	CYLINDER_DEAD_VOLUME_A				D05	QV: FBHLA	
	Cylinder dead volume at the drive end				FLOAT	immediately	
				0.0	0.0	200000.0	3/3

5136	CYLINDER_DEAD_VOLUME_B				D05	QV: FBHLA	
	Cylinder dead volume at the non-drive end				FLOAT	immediately	
				0.0	0.0	200000.0	3/3

5140	VALVE_CYLINDER_CONNECTION				D05	QV: FBHLA	
	Connection configuration of valve cylinder				UNS. WORD	immediately	
				0	0	1	3/3

5141	PIPE_LENGTH_A				D05	QV: FBHLA	
	Pipe length at the drive end				FLOAT	immediately	
				0.0	0.0	10000.0	3/3

5142	PIPE_LENGTH_B				D05	QV: FBHLA	
	Pipe length at the non-drive end				FLOAT	immediately	
				0.0	0.0	10000.0	3/3

5143	PIPE_INNER_DIAMETER_A_B				D05	QV: FBHLA	
	Pipe inside diameters A and B				FLOAT	immediately	
				5.0	0.0	100.0	3/3

5150	DRIVE_MASS				D05	QV: FBHLA	
	Mass moved by drive				FLOAT	immediately	
				0.0	0.0	50000.0	3/3

5151	CYLINDER_A_ORIENTATION				D05	QV: FBHLA	
	Mounting position at the drive end of the cylinder				FLOAT	immediately	
				0.0	-90.0	90.0	3/3

5152	CYLINDER_FASTENING				D05	QV: FBHLA	
	Fastening the cylinder				UNS. WORD	immediately	
				0	0	1	3/3

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5160	PISTON_POS_MIN_NAT_FREQ				D05	QV: FBHLA	
	Piston position min. natural frequency				FLOAT	immediately	
				0.0	0.0	3000.0	3/3

5161	DRIVE_DAMPING				D01, D05	QV: FBHLA	
	Damping the drive				FLOAT	immediately	
				0.1	0.01	1.0	3/3

5162	DRIVE_NATURAL_FREQUENCY_A				D01, D05	QV: FBHLA	
	Natural frequency of drive A				FLOAT	immediately	
				1.0	1.0	2000.0	3/3

5163	DRIVE_NATURAL_FREQUENCY				D01, D05	QV: FBHLA	
	Natural frequency of the drive				FLOAT	immediately	
				1.0	1.0	2000.0	3/3

5164	DRIVE_NATURAL_FREQUENCY_B				D01, D05	QV: FBHLA	
	Natural frequency of drive B				FLOAT	immediately	
				1.0	1.0	2000.0	3/3

5180	CLOSED_LOOP_SYSTEM_DAMPING				D01	QV: FBHLA	
	Desired damping closed-loop system				FLOAT	immediately	
				0.7	0.2	1.0	3/3

5200	NUM_OUTPUT_VCTRL_FILTERS				D01	QV: FBHLA	
	Number of manipulated variable filters				UNS. WORD	immediately	
				0	0	2	3/3

5201	OUTPUT_VCTRL_FILTER_CONFIG				D01	QV: FBHLA	
	Type of manipulated variable filter				UNS. WORD	immediately	
				0	0	3	3/3

5202	OUTPUT_VCTRL_FIL_1_FREQ				D01	QV: FBHLA	
	PT2 natural frequency of manipulated variable filter 1				FLOAT	immediately	
				1000.0	10.0	8000.0	3/3

5203	OUTPUT_VCTRL_FIL_1_DAMP				D01	QV: FBHLA	
	PT2 damping of manipulated variable filter 1				FLOAT	immediately	
				1.0	0.05	1.0	3/3

5204	OUTPUT_VCTRL_FIL_2_FREQ				D01	QV: FBHLA	
	PT2 natural frequency of manipulated variable filter 2				FLOAT	immediately	
				1000.0	10.0	8000.0	3/3

5205	OUTPUT_VCTRL_FIL_2_DAMP				D01	QV: FBHLA	
	PT2 damping of manipulated variable filter 2				FLOAT	immediately	
				1.0	0.05	1.0	3/3

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5210	OUTPUT_VCTRL_FIL_1_SUP_FREQ				D01	QV: FBHLA	
	Blocking frequency for manipulated variable filter 1				FLOAT	immediately	
				3500.0	1.0	7999.0	3/3

5211	OUTPUT_VCTRL_FIL_1_BW				D01	QV: FBHLA	
	Bandwidth of manipulated variable filter 1				FLOAT	immediately	
				500.0	5.0	7999.0	3/3

5212	OUTPUT_VCTRL_FIL_1_BW_NUM				D01	QV: FBHLA	
	Numerator bandwidth of manipulated variable filter 1				FLOAT	immediately	
				0.0	0.0	7999.0	3/3

5213	OUTPUT_VCTRL_FIL_2_SUP_FREQ				D01	QV: FBHLA	
	Blocking frequency of manipulated variable filter 2				FLOAT	immediately	
				3500.0	1.0	7999.0	3/3

5214	OUTPUT_VCTRL_FIL_2_BW				D01	QV: FBHLA	
	Bandwidth of manipulated variable filter 2				FLOAT	immediately	
				500.0	5.0	7999.0	3/3

5215	OUTPUT_VCTRL_FIL_2_BW_NUM				D01	QV: FBHLA	
	Numerator bandwidth of manipulated variable filter 2				FLOAT	immediately	
				0.0	0.0	7999.0	3/3

5230	FORCE_LIMIT_THRESHOLD				D02	QV: FBHLA	
	Power limitation threshold for weight				FLOAT	immediately	
				10000.0	0.0	100000000.0	3/3

5231	FORCE_LIMIT_WEIGHT				D02	QV: FBHLA	
	Power limitation weight				FLOAT	immediately	
				0.0	-100000000.0	100000000.0	3/3

5232	STICTION_SPEED_THRESHOLD				D02	QV: FBHLA	
	Velocity threshold static friction				FLOAT	immediately	
				10.0	0.0	500.0	3/3

5233	STICTION_COMP_THRESHOLD				D01	QV: FBHLA	
	Interrupting lead static friction				FLOAT	immediately	
				40.0	3.0	100.0	3/3

5234	STICTION_FORCE_POS				D02	QV: FBHLA	
	Friction force velocity >0				FLOAT	immediately	
				100.0	-100000000.0	100000000.0	3/3

5235	STICTION_FORCE_NEG				D02	QV: FBHLA	
	Friction force velocity <0				FLOAT	immediately	
				-100.0	-100000000.0	100000000.0	3/3

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5240	FORCECONTROLLED_SYSTEM_GAIN				D01	QV: FBHLA	
	Controlled system gain power controller				FLOAT	immediately	
				0.0	0.0	1000000000.0	3/3

5241	FORCECTRL_CONFIG				D02	QV: FBHLA	
	Configuration of force controller				UNS. WORD	immediately	
				0	0	6	3/3

5242	FORCECTRL_GAIN				D01	QV: FBHLA	
	P gain of force controller				FLOAT	immediately	
				0.0	0.0	10000.0	3/3

5243	FORCECTRL_GAIN_RED				D01	QV: FBHLA	
	Attenuation of power controller P component				FLOAT	immediately	
				40.0	0.1	100.0	3/3

5244	FORCECTRL_INTEGRATOR_TIME				D01	QV: FBHLA	
	Power controller reset time				FLOAT	immediately	
				40.0	0.0	2000.0	3/3

5245	FORCECTRL_PT1_TIME				D01	QV: FBHLA	
	Power controller smoothing time constant				FLOAT	immediately	
				0.5	0.25	100.0	3/3

5246	FORCECTRL_DIFF_TIME				D01	QV: FBHLA	
	Power controller lead time				FLOAT	immediately	
				0.0	-10000.0	10000.0	3/3

5247	FORCE_FFW_WEIGHT				D01	QV: FBHLA	
	Power controller precontrol factor				FLOAT	immediately	
				100.0	0.0	120.0	3/3

5260	NUM_FFW_FCTRL_FILTERS				D01	QV: FBHLA	
	Number of pilot filters in force controller				UNS. WORD	immediately	
				0	0	1	3/3

5261	FFW_FCTRL_FILTER_TYPE				D01	QV: FBHLA	
	Type of pilot filter in the force controller				UNS. WORD	immediately	
				0	0	1	3/3

5264	FFW_FCTRL_FIL_1_FREQ				D01	QV: FBHLA	
	PT2 natural freq. pilot filter 1				FLOAT	immediately	
				2000.0	10.0	8000.0	3/3

5265	FFW_FCTRL_FIL_1_DAMP				D01	QV: FBHLA	
	PT2 damping pilot filter 1				FLOAT	immediately	
				0.7	0.2	1.0	3/3

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5268	**FFW_FCTRL_FIL_1_SUP_FREQ**				D01	**QV:** FBHLA	
	Blocking frequency pilot filter 1				FLOAT	immediately	
				3500.0	10.0	7999.0	3/3

5269	**FFW_FCTRL_FIL_1_BW**				D01	**QV:** FBHLA	
	Bandwidth pilot filter 1				FLOAT	immediately	
				500.0	5.0	7999.0	3/3

5270	**FFW_FCTRL_FIL_1_BW_NUM**				D01	**QV:** FBHLA	
	Counter bandwidth pilot filter 1				FLOAT	immediately	
				0.0	0.0	7999.0	3/3

5280	**NUM_OUTPUT_FILTERS**				D01	**QV:** FBHLA	
	Number of manipulated value filters				UNS. WORD	immediately	
				0	0	1	3/3

5281	**OUTPUT_FILTER_TYPE**				D01	**QV:** FBHLA	
	Type of manipulated value filter				UNS. WORD	immediately	
				0	0	1	3/3

5284	**OUTPUT_FIL_1_FREQ**				D01	**QV:** FBHLA	
	Natural frequency of manipulated value filter 1				FLOAT	immediately	
				1000.0	10.0	8000.0	3/3

5285	**OUTPUT_FIL_1_DAMP**				D01	**QV:** FBHLA	
	Damping manipulated value filter 1				FLOAT	immediately	
				1.0	0.05	1.0	3/3

5288	**OUTPUT_FIL_1_SUP_FREQ**				D01	**QV:** FBHLA	
	Blocking frequency manipulated value filter 1				FLOAT	immediately	
				3500.0	1.0	7999.0	3/3

5289	**OUTPUT_FIL_1_BW**				D01	**QV:** FBHLA	
	Bandwidth manipulated value filter 1				FLOAT	immediately	
				500.0	5.0	7999.0	3/3

5290	**OUTPUT_FIL_1_BW_NUM**				D01	**QV:** FBHLA	
	Numerator bandwidth manipulated value filter 1				FLOAT	immediately	
				0.0	0.0	7999.0	3/3

5401	**DRIVE_MAX_SPEED**				D02, D05	**QV:** FBHLA	
	Maximum useful velocity				FLOAT	PowerOn	
				0.0	0.0	120000.0	3/3

5402	**SPEED_CRTL_DISABLE_STOPTIME**				D02	**QV:** FBHLA	
	Deceleration time with servo disable				FLOAT	immediately	
				0.0	0.0	120000.0	3/3

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5404	**POWER_DISABLE_DELAY**				D02	**QV:** FBHLA	
	Power disable timer				FLOAT	immediately	
				100	0	100000	3/3

5406	**SPEEDCTRL_GAIN_A**				D01, D08	**QV:** FBHLA	
	P gain of velocity controller A				FLOAT	immediately	
				0.0	-100.0	1000.0	3/3

5407	**SPEEDCTRL_GAIN**				D01, D08	**QV:** FBHLA	
	P gain of velocity controller				FLOAT	immediately	
				0.0	-100.0	1000.0	3/3

5408	**SPEEDCTRL_GAIN_B**				D01, D08	**QV:** FBHLA	
	P gain of velocity controller B				FLOAT	immediately	
				0.0	-100.0	1000.0	3/3

5409	**SPEEDCTRL_INTEGRATOR_TIME**				D01, D08	**QV:** FBHLA	
	Velocity controller reset time				FLOAT	immediately	
				50.0	0.0	2000.0	3/3

5413	**SPEEDCTRL_ADAPT_ENABLE**				D01	**QV:** FBHLA	
	Selection of velocity controller adaptation				UNS. WORD	immediately	
				0	0	1	3/3

5414	**SPEEDCTRL_REF_MODEL_FREQ**				D01, EXP	**QV:** FBHLA	
	Natural frequency of the reference model				FLOAT	immediately	
				150.0	0.0	1000.0	3/3

5415	**SPEEDCTRL_REF_MODEL_DAMPING**				D01, EXP	**QV:** FBHLA	
	Damping of the reference model				FLOAT	immediately	
				0.9	0.4	1.0	3/3

5420	**DRIVE_MAX_SPEED_SETUP**				D02	**QV:** FBHLA	
	Maximum setup mode velocity				FLOAT	immediately	
				10.0	0.0	120000.0	3/3

5421	**SPEEDCTRL_INTEGRATOR_FEEDBK**				D01	**QV:** FBHLA	
	Time constant for integrator feedback				FLOAT	immediately	
				0.0	0.0	1000.0	3/3

5422	**FEEDBK_SPEED_THRESHOLD**				D01	**QV:** FBHLA	
	Speed treshold integrator feed back				FLOAT	immediately	
				10.0	0.0	120000.0	3/3

5430	**SPEEDCTRL_PT1_TIME**				D01	**QV:** FBHLA	
	Smoothing time constant for velocity controller				FLOAT	immediately	
				0.25	0.25	100.0	3/3

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5431	SPEEDCTRL_DIFF_TIME_A				D01	QV: FBHLA	
	Lead time for velocity controller A				FLOAT	immediately	
				0.0	-100.0	100.0	3/3

5432	SPEEDCTRL_DIFF_TIME				D01	QV: FBHLA	
	Lead time for velocity controller				FLOAT	immediately	
				0.0	-100.0	100.0	3/3

5433	SPEEDCTRL_DIFF_TIME_B				D01	QV: FBHLA	
	Lead time for velocity controller B				FLOAT	immediately	
				0.0	-100.0	100.0	3/3

5435	CONTROLLED_SYSTEM_GAIN				D01	QV: FBHLA	
	Controlled system gain				FLOAT	immediately	
				0.0	0.0	20000.0	3/3

5440	POS_DRIVE_SPEED_LIMIT				D02	QV: FBHLA	
	Positive velocity setpoint limit				FLOAT	immediately	
				0.0	0.0	120000.0	3/3

5441	NEG_DRIVE_SPEED_LIMIT				D02	QV: FBHLA	
	Negative velocity setpoint limit				FLOAT	immediately	
				0.0	0.0	120000.0	3/3

5460	FRICTION_COMP_GRADIENT				D01	QV: FBHLA	
	Increase in friction compensation				FLOAT	immediately	
				0.0	0.0	400.0	3/3

5461	FRICTION_COMP_OUTPUT_RANGE				D01	QV: FBHLA	
	Range of action of friction compensation				FLOAT	immediately	
				0.1	0.1	10.0	3/3

5462	AREA_FACTOR_POS_OUTPUT				D01	QV: FBHLA	
	Positive area adaptation factor				FLOAT	immediately	
				100.0	10.0	200.0	3/3

5463	AREA_FACTOR_NEG_OUTPUT				D01	QV: FBHLA	
	Negative area adaptation factor				FLOAT	immediately	
				100.0	10.0	200.0	3/3

5464	POS_DUAL_GAIN_COMP_FLOW				D01	QV: FBHLA	
	Knee-point compensation of flow				FLOAT	immediately	
				10.0	0.2	95.0	3/3

5465	POS_DUAL_GAIN_COMP_VOLTAGE				D01	QV: FBHLA	
	Knee-point compensation of voltage				FLOAT	immediately	
				10.0	0.2	95.0	3/3

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5466	**DUAL_GAIN_COMP_SMOOTH_RANGE**				D01	**QV:** FBHLA	
	Knee-point compensation of rounding area				FLOAT	immediately	
				2.5	0.0	20.0	3/3

5467	**NEG_DUAL_GAIN_COMP_FLOW**				D01	**QV:** FBHLA	
	Knee-point compensation neg. flow				FLOAT	immediately	
				10.0	0.2	95.0	3/3

5468	**NEG_DUAL_GAIN_COMP_VOLTAGE**				D01	**QV:** FBHLA	
	Knee-point compensation neg. voltage				FLOAT	immediately	
				10.0	0.2	95.0	3/3

5470	**OFFSET_COMPENSATION**				D01	**QV:** FBHLA	
	Offset compensation				WORD	immediately	
				0	-4000	4000	3/3

5474	**OUTPUT_VOLTAGE_POS_LIMIT**				D02	**QV:** FBHLA	
	Actuating voltage limitation				FLOAT	immediately	
				10.0	0.0	10.0	3/3

5475	**OUTPUT_VOLTAGE_NEG_LIMIT**				D02	**QV:** FBHLA	
	Actuating voltage limitation				FLOAT	immediately	
				10.0	0.0	10.0	3/3

5476	**OUTPUT_VOLTAGE_INVERSION**				D01	**QV:** FBHLA	
	Manipulated variable inversion				UNS. WORD	immediately	
				0	0	1	3/3

5480	**POS_DUAL_GAIN_COMP_Z_FLOW**				D01	**QV:** FBHLA	
	Knee-point compensation pos. flow zero range				FLOAT	immediately	
				0.01	0.01	95.0	3/3

5481	**POS_DUAL_GAIN_COMP_Z_VOLT**				D01	**QV:** FBHLA	
	Knee-point compensation pos. voltage zero range				FLOAT	immediately	
				0.0	0.0	95.0	3/3

5482	**DUAL_GAIN_COMP_SMOOTH_Z_R**				D01	**QV:** FBHLA	
	Knee-point compensation rounding zero range				FLOAT	immediately	
				0.0	0.0	10.0	3/3

5483	**NEG_DUAL_GAIN_COMP_Z_FLOW**				D01	**QV:** FBHLA	
	Knee-point compensation neg. flow zero range				FLOAT	immediately	
				0.01	0.01	95.0	3/3

5484	**NEG_DUAL_GAIN_COMP_Z_VOLT**				D01	**QV:** FBHLA	
	Knee-point compensation neg. voltage zero range				FLOAT	immediately	
				0.0	0.0	95.0	3/3

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5485	POS_DUAL_GAIN_COMP_S_FLOW				D01	QV: FBHLA	
	Knee-point compensation pos. flow saturation				FLOAT	immediately	
				100.0	0.2	100.0	3/3

5486	POS_DUAL_GAIN_COMP_S_VOLT				D01	QV: FBHLA	
	Knee-point compensation pos. voltage saturation				FLOAT	immediately	
				100.0	0.2	100.0	3/3

5487	NEG_DUAL_GAIN_COMP_S_FLOW				D01	QV: FBHLA	
	Knee-point compensation neg. flow saturation				FLOAT	immediately	
				100.0	0.2	100.0	3/3

5488	NEG_DUAL_GAIN_COMP_S_VOLT				D01	QV: FBHLA	
	Knee-point compensation neg. voltage saturation				FLOAT	immediately	
				100.0	0.2	100.0	3/3

5500	NUM_SPEED_FILTERS				D01	QV: FBHLA	
	Number of velocity filters				UNS. WORD	immediately	
				0	0	1	3/3

5501	SPEED_FILTER_TYPE				D01	QV: FBHLA	
	Type of velocity filter				UNS. WORD	immediately	
				0	0	257	3/3

5502	SPEED_FILTER_1_TIME				D01	QV: FBHLA	
	PT1 time constant of velocity filter 1				FLOAT	immediately	
				0.0	0.0	500.0	3/3

5506	SPEED_FILTER_1_FREQUENCY				D01	QV: FBHLA	
	PT 2 natural frequency of velocity filter 1				FLOAT	immediately	
				2000.0	10.0	8000.0	3/3

5507	SPEED_FILTER_1_DAMPING				D01	QV: FBHLA	
	PT2 damping of velocity filter 1				FLOAT	immediately	
				0.7	0.2	1.0	3/3

5514	SPEED_FILTER_1_SUPPR_FREQ				D01	QV: FBHLA	
	BSF blocking frequency of velocity filter 1				FLOAT	immediately	
				3500.0	10.0	7999.0	3/3

5515	SPEED_FILTER_1_BANDWIDTH				D01	QV: FBHLA	
	BSF bandwidth of velocity filter 1				FLOAT	immediately	
				500.0	5.0	7999.0	3/3

5516	SPEED_FILTER_1_BW_NUMERATOR				D01	QV: FBHLA	
	Numerator bandwidth of velocity filter 1				FLOAT	immediately	
				0.0	0.0	7999.0	3/3

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5520	**SPEED_FILTER_1_BS_FREQ**				D01	**QV:** FBHLA	
	BSF natural frequency of velocity filter 1				FLOAT	immediately	
				100.0	1.0	141.0	3/3

5522	**ACT_SPEED_FILTER_TIME**				D01	**QV:** FBHLA	
	Time constant velocity actual value filter				UNS. WORD	PowerOn	
				0	0	0	3/3

5530	**CYLINDER_SAFETY_CONFIG**				D05, D02	**QV:** FBHLA	
	Safety circuit				UNS. WORD	immediately	
				4	0	3F	3/3

5531	**OUTPUT_ENABLE_DELAY**				D02	**QV:** FBHLA	
	Manipulated variable blocking time				UNS. WORD	immediately	
				300	0	500	3/3

5532	**POWER_ENABLE_DELAY**				D02	**QV:** FBHLA	
	Power enable blocking time				UNS. WORD	immediately	
				100	0	300	3/3

5550	**PRESSURE_SENS_A_REF**				D06	**QV:** FBHLA	
	Reference value of pressure sensor A at 10 V				FLOAT	immediately	
				200.0	50.0	6000.0	3/3

5551	**PRESSURE_SENS_A_OFFS**				D06	**QV:** FBHLA	
	Offset compensation for pressure sensor A				WORD	immediately	
				0	-32760	32760	3/3

5552	**PRESSURE_SENS_B_REF**				D06	**QV:** FBHLA	
	Reference value of pressure sensor B at 10V				FLOAT	immediately	
				200.0	50.0	6000.0	3/3

5553	**PRESSURE_SENS_B_OFFS**				D06	**QV:** FBHLA	
	Offset compensation for pressure sensor B				WORD	immediately	
				0	-32767	32767	3/3

5600	**ALARM_MASK_POWER_ON**				D02, EXP	**QV:** FBHLA	
	Concealable alarms (Power On)				UNS. WORD	immediately	
				0	0	FFFF	3/3

5601	**ALARM_MASK_RESET**				D02, EXP	**QV:** FBHLA	
	Concealable alarms (Reset)				UNS. WORD	immediately	
				0	0	FFFF	3/3

5605	**SPEEDCTRL_LIMIT_TIME**				D02	**QV:** FBHLA	
	Time limit of velocity controller				FLOAT	immediately	
				200.0	20.0	1000.0	3/3

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5606	SPEEDCTRL_LIMIT_THRESHOLD				D02	QV: FBHLA	
	Threshold limit of velocity controller				FLOAT	immediately	
				120000.0	0.0	120000.0	3/3

5609	ENC_SPEED_LIMIT				D06, d02	QV: FBHLA	
	Maximum measuring velocity of linear scale				FLOAT	immediately	
				240000.0	1.0	240000.0	3/3

5610	DIAGNOSIS_ACTIVATION_FLAGS				EXP	QV: FBHLA	
	Diagnostic functions				UNS. WORD	PowerOn	
				0	0	3	3/3

5612	ALARM_REACTION_POWER_ON				D02	QV: FBHLA	
	Configurable shutdown reaction with PO alarms				UNS. WORD	immediately	
				0	0	FFFF	3/3

5613	ALARM_REACTION_RESET				D02	QV: FBHLA	
	Configurable shutdown reaction with RESET alarms				UNS. WORD	immediately	
				0	0	FFFF	3/3

5614	VALVE_ERROR_TIME				D02	QV: FBHLA	
	Valve spool monitoring timer				UNS. WORD	immediately	
				50	1	1000	3/3

5620	PROG_SIGNAL_FLAGS				D03	QV: FBHLA	
	Bits of variable signaling functions				UNS. WORD	immediately	
				0	0	7	3/3

5621	PROG_SIGNAL_NR				D03	QV: FBHLA	
	Signal number of variable signaling function				UNS. WORD	immediately	
				0	0	100	3/3

5622	PROG_SIGNAL_ADDRESS				D03	QV: FBHLA	
	Address of variable signaling functions				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

5623	PROG_SIGNAL_THRESHOLD				D03	QV: FBHLA	
	Threshold of variable signaling functions				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

5624	PROG_SIGNAL_HYSTERESIS				D03	QV: FBHLA	
	Hysteresis of variable signaling functions				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

5625	PROG_SIGNAL_ON_DELAY				D03	QV: FBHLA	
	Pickup delay of variable signaling function				UNS. WORD	immediately	
				0	0	10000	3/3

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5626	**PROG_SIGNAL_OFF_DELAY**				D03	**QV:** FBHLA	
	Dropout delay of variable signaling function				UNS. WORD	immediately	
				0	0	10000	3/3

5648	**VALVE_ID_PARAMS1**				D04, EXP	**QV:** FBHLA	
	Valve-Idi-Parameter2				UNS. WORD	immediately	
				0	0	7999	3/3

5649	**VALVE_ID_PARAMS2**				D04, EXP	**QV:** FBHLA	
	Valve-Idi-Parameter2				UNS. WORD	immediately	
				0	0	7999	3/3

5650	**DIAGNOSIS_CONTROL_FLAGS**				D04, EXP	**QV:** FBHLA	
	Diagnostic control				UNS. WORD	immediately	
				0	0	FFFF	3/3

5651	**MINMAX_SIGNAL_NR**				D04, EXP	**QV:** FBHLA	
	Signal number of min./max. storage				UNS. WORD	immediately	
				0	0	FFFF	3/3

5652	**MINMAX_ADDRESS**				D04, EXP	**QV:** FBHLA	
	Storage location of min./max. storage				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

5653	**MINMAX_MIN_VALUE**				D04, EXP	**QV:** FBHLA	
	Minimum value of min./max. storage				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

5654	**MINMAX_MAX_VALUE**				D04, EXP	**QV:** FBHLA	
	Maximum value of min./max. storage				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

5655	**MONITOR_SEGMENT**				D04, EXP	**QV:** FBHLA	
	Monitor storage location segment				UNS. WORD	immediately	
				0	0	FFFF	3/3

5656	**MONITOR_ADDRESS**				D04, EXP	**QV:** FBHLA	
	Monitor storage location address				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

5657	**MONITOR_DISPLAY**				D04, EXP	**QV:** FBHLA	
	Monitor value display				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

5658	**MONITOR_INPUT_VALUE**				D04, EXP	**QV:** FBHLA	
	Monitor value input				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

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5659	**MONITOR_INPUT_STROBE**				D04, EXP	**QV:** FBHLA	
	Monitor value accept				UNS. WORD	immediately	
				0	0	FFFF	3/3

5700	**TERMINAL_STATE**				D04	**QV:** FBHLA	
	Status of binary inputs				UNS. WORD	immediately	
				0	0	FFFF	3/3

5704	**ACTUAL_PRESSURE_A**				D04	**QV:** FBHLA	
	Actual pressure value A				FLOAT	immediately	
				0.0	-10000.0	10000.0	3/3

5705	**ACTUAL_PRESSURE_B**				D04	**QV:** FBHLA	
	Actual pressure value B				FLOAT	immediately	
				0.0	-10000.0	10000.0	3/3

5706	**DESIRED_SPEED**				D04	**QV:** FBHLA	
	Velocity setpoint				FLOAT	immediately	
				0.0	-240000.0	240000.0	3/3

5707	**ACTUAL_SPEED**				D04	**QV:** FBHLA	
	Actual velocity value				FLOAT	immediately	
				0.0	-240000.0	240000.0	3/3

5708	**ACTUAL_CYL_FORCE**				D04	**QV:** FBHLA	
	Actual cylinder force value				FLOAT	immediately	
				0.0	-1000000000.0	1000000000.0	3/3

5709	**VOLTAGE_LSB**				EXP	**QV:** FBHLA	
	Significance of voltage display				FLOAT	immediately	
				0.0	-100000.0	100000.0	3/3

5710	**PRESSURE_LSB**				EXP	**QV:** FBHLA	
	Significance of pressure display				FLOAT	immediately	
				0.0	-240000.0	240000.0	3/3

5711	**SPEED_LSB**				EXP	**QV:** FBHLA	
	Significance of velocity display				FLOAT	immediately	
				0.0	-240000.0	240000.0	3/3

5713	**FORCE_LSB**				EXP	**QV:** FBHLA	
	Significance of power display				FLOAT	immediately	
				0.0	-10000000.0	10000000.0	3/3

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5714	**POSITION_LSB**				EXP	**QV:** FBHLA	
	Significance of position display				FLOAT	immediately	
				0.0	-1000000.0	1000000.0	3/3

5715	**DESIRED_VALVE_SPOOL_POS**				D04	**QV:** FBHLA	
	Valve spool position setpoint voltage				FLOAT	immediately	
				0.0	-10.0	10.0	3/3

5716	**ACTUAL_VALVE_SPOOL_POS**				D04	**QV:** FBHLA	
	Voltage for actual valve spool position value				FLOAT	immediately	
				0.0	-10.0	10.0	3/3

5717	**DESIRED_CYL_FORCE**				D04	**QV:** FBHLA	
	Desired cylinder power				FLOAT	immediately	
				0.0	-1000000000.0	1000000000.0	3/3

5720	**CRC_DIAGNOSIS**				D04, EXP	**QV:** FBHLA	
	CRC diagnostic parameters				UNS. WORD	immediately	
				0	0	FFFF	3/3

5725	**MAX_FORCE_FROM_NC**				D04, EXP	**QV:** FBHLA	
	Standardization of the power setpoint interface				FLOAT	immediately	
				0.0	0.0	1000000000.0	3/3

5730	**OPERATING_MODE**				D04	**QV:** FBHLA	
	Display of the operating mode				UNS. WORD	immediately	
				1	1	FFFF	3/3

5731	**CL1_PO_IMAGE**				D04, EXP	**QV:** FBHLA	
	Map of the ZK1_PO register				UNS. WORD	immediately	
				0	0	FFFF	3/3

5732	**CL1_RES_IMAGE**				D04, EXP	**QV:** FBHLA	
	Map of the ZK1_RES register				UNS. WORD	immediately	
				0	0	FFFF	3/3

5735	**PROCESSOR_UTILIZATION**				D04, EXP	**QV:** FBHLA	
	Processor load				UNS. WORD	immediately	
				0	0	FFFF	3/3

5740	**ACTUAL_POSITION**				EXP, D04	**QV:** FBHLA	
	Actual position value in relation to machine zero				FLOAT	immediately	
				0.0	-10000000.0	10000000.0	3/3

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5741	**ACTUAL_PISTON_POSITION**				EXP, D04	**QV:** FBHLA	
	Piston position in relation to piston zero				FLOAT	immediately	
				0.0	-10000000.0	10000000.0	3/3

5790	**ENC_TYPE**				D04, D06	**QV:** FBHLA	
	Measuring circuit type of measuring system				WORD	immediately	
				0	-1	32767	3/3

5797	**PBL_VERSION**				D04	**QV:** FBHLA	
	Data version				UNS. WORD	immediately	
				0	0	FFFF	3/3

5798	**FIRMWARE_DATE**				D04	**QV:** FBHLA	
	Firmware date				UNS. WORD	immediately	
				0	0	FFFF	3/3

5799	**FIRMWARE_VERSION**				D04	**QV:** FBHLA	
	Firmware version				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

5799	**FIRMWARE_VERSION**				D04	**QV:** FBHLA	
	Firmware version				UNS. DWORD	immediately	
				0	0	FFFFFF	3/3

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Suggestions
Corrections

for Publication/Manual
SINUMERIK, SIMODRIVE
Parameter Manual

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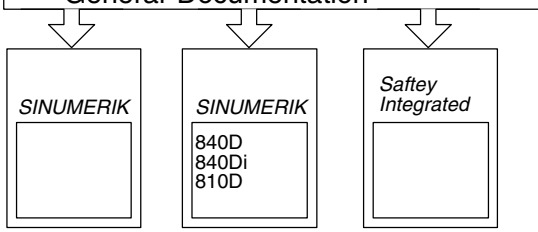

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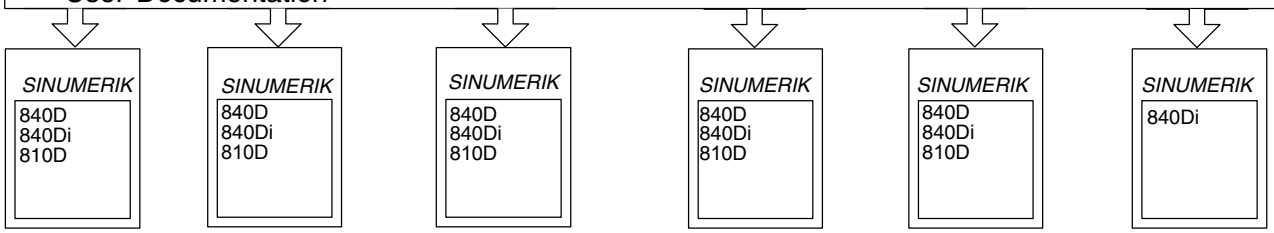

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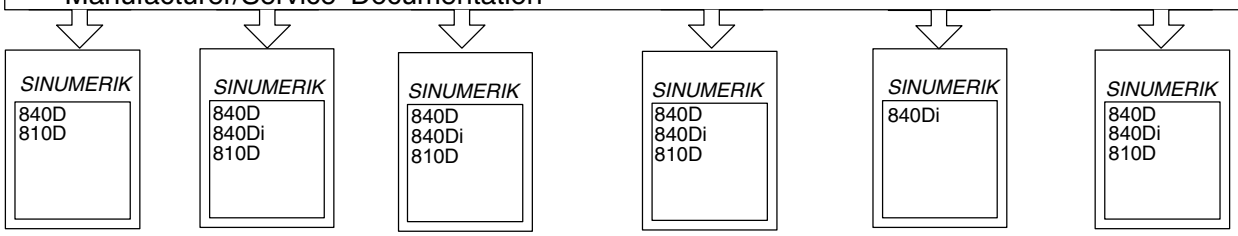

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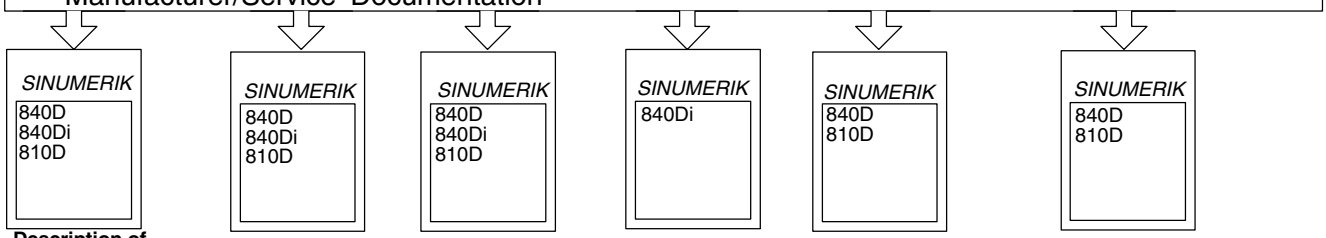

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MCIS
– Computer Link
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Electronic Documentation



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