



Technical Info | Programming Note

# COMBIVERT F6 APPLICATION

Parameter list for Version 3.0 with Encoder

Original manual

Document EN 00

## Imprint

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# 1 Parameter list

The description of the inverter parameters includes the following elements:

Idx (sub)	Index in Hex (Sub-Index)
IDtxt	Parameter designation consisting of parameter group and consecutive numbering.
Name	Parameter name, depending on the selected language.
C	CAN-Open type
	V: VAR
	ST: Structure (for structure parameters, further sub-parameters are available. This can be seen from the sub-index in the 1st column.
	A: Array
A	Array length if CAN-Open type is array.
PD	Indicates whether the parameter is available for process data.
Type	Variable type of the parameter
	Example: UINT8 = unsigned Byte; INT16 = Word
Lower limit	Lower limit of the value range
Upper limit	Upper limit of the value range
Default	Default value
SI	Shows the unit of the output value.
Mult	Multiplier by which the intrinsic value is multiplied.
Div	Divisor by which the inner value is divided.
Offset	Offset to the intrinsic value.
r/w	rw: Writing and reading of the parameter Parameter possible.
	ro: Read-only parameters
Cu	Customer parameter
Sec	Security parameter
Sy	System parameters

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2125h (0)	st37	(CiA 0x6062) position demand value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
2316h (0)	vl22	external target velocity	V	-	yes	INT32	-1048576000	1048576000	0	1/ min	1	8192	0	ro	yes	no	no
2329h (0)	vl41	vl velocity actual limit for	V	-	yes	INT32	0	128000	0	1/ min	1	1	0	ro	yes	no	no
232Ah (0)	vl42	vl velocity actual limit rev	V	-	yes	INT32	0	128000	0	1/ min	1	1	0	ro	yes	no	no
260Bh (0)	do11	dig. out logic	V	-	no	UINT16	0	255	0	-	1	1	0	rw	yes	no	no
260Eh (0)	do14	invert flags before connection	A	4	yes	UINT16	0	255	0	-	1	1	0	rw	yes	no	no
2612h (0)	do18	AND operation for connected flags	V	-	no	UINT16	0	15	0	-	1	1	0	rw	yes	no	no
2614h (0)	do20	select flag O1	V	-	yes	UINT16	0	4095	1	-	1	1	0	rw	yes	no	no
2C5Ah (0)	ru90	sinus filter operation	S	-	yes	UINT8	8	8	8	-	1	1	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2C5Ah (1)	ru90	motor active current	V	-	yes	INT32	-2147483647	2147483647	0	A	1	100	0	ro	yes	no	no
2C5Ah (2)	ru90	motor reactive current	V	-	yes	INT32	-2147483647	2147483647	0	A	1	100	0	ro	yes	no	no
2C5Ah (3)	ru90	motor current	V	-	yes	INT32	-2147483647	2147483647	0	A	1	100	0	ro	yes	no	no
2C5Ah (4)	ru90	capacitor reactive current	V	-	yes	INT32	-2147483647	2147483647	0	A	1	100	0	ro	yes	no	no
2C5Ah (5)	ru90	capacitor reference reactive current	V	-	yes	INT32	-2147483647	2147483647	0	A	1	100	0	ro	yes	no	no
2C5Ah (6)	ru90	motor active current estimated	V	-	yes	INT32	-2147483647	2147483647	0	A	1	100	0	ro	yes	no	no
2C5Ah (7)	ru90	motor reactive current estimated	V	-	yes	INT32	-2147483647	2147483647	0	A	1	100	0	ro	yes	no	no
2C5Ah (8)	ru90	motor current estimated	V	-	yes	INT32	-2147483647	2147483647	0	A	1	100	0	ro	yes	no	no
2625h (0)	do37	count source bit	A	2	yes	UINT16	0	32768	0	-	1	1	0	rw	yes	no	no
2626h (0)	do38	direction source parameter	A	2	yes	UINT8	0	3	0	-	1	1	0	rw	yes	no	no
2627h (0)	do39	direction source bit	A	2	yes	UINT16	0	32768	0	-	1	1	0	rw	yes	no	no
2628h (0)	do40	timer end value	A	2	yes	UINT32	1	8388607	8388607	-	1	1	0	rw	yes	no	no
262Dh (0)	do45	variable operand address	A	2	yes	UINT32	0	-1	0	-	1	1	0	rw	yes	no	no
2405h (0)	ds05	omega mech. precontrol time	V	-	no	UINT16	0	60000	2000	ms	1	1000	0	rw	yes	no	no
243Fh (7)	ds63	ASiCL Rs adaption factor	V	-	no	UINT16	0	2000	800	%	1	10	0	rw	yes	no	no
1000h (0)	-	device type	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
1001h (0)	-	error register	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
1003h (2)	-	Standard error field	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
1003h (3)	-	Standard error field	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
1003h (4)	-	Standard error field	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
1003h (5)	-	Standard error field	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
1005h (0)	-	cob-ID sync message	V	-	no	UINT32	128	128	128	-	1	1	0	rw	no	no	yes
1008h (0)	-	Manufacturer device name	V	-	no	UINT8	0	20	1	-	1	1	0	ro	yes	no	no
1009h (0)	-	Hardware Version	V	-	no	UINT8	0	4	1	-	1	1	0	ro	yes	no	no
100Ah (0)	-	Software Version	V	-	no	UINT8	0	4	0	-	1	1	0	ro	yes	no	no
100Ch (0)	-	guard time	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	no	no	yes
1016h (0)	-	consumer heartbeat time	A	1	no	UINT32	0	8388607	0	-	1	1	0	rw	no	no	yes
1017h (0)	-	producer heartbeat time	V	-	no	UINT16	0	65535	0	ms	1	1	0	rw	no	no	yes
1018h (0)	-	identity object	S	-	no	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
1018h (1)	-	vendor ID	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
1018h (2)	-	product code	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
1400h (1)	-	cob-ID	V	-	no	UINT32	1	-1	513	-	1	1	0	rw	no	no	yes
1400h (2)	-	transmission type	V	-	no	UINT8	0	255	254	-	1	1	0	rw	no	no	yes
1401h (1)	-	cob-ID	V	-	no	UINT32	1	-1	769	-	1	1	0	rw	no	no	yes
1401h (2)	-	transmission type	V	-	no	UINT8	0	255	254	-	1	1	0	rw	no	no	yes
1402h (1)	-	cob-ID	V	-	no	UINT32	1	-1	1025	-	1	1	0	rw	no	no	yes
1402h (2)	-	transmission type	V	-	no	UINT8	0	255	254	-	1	1	0	rw	no	no	yes
1600h (0)	-	1st receive PDO mapping	S	-	no	UINT8	0	32	8	-	1	1	0	rw	no	no	yes

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
1600h (1)	-	1st Mapped Object	V	-	no	UINT32	0	-1	688914464	-	1	1	0	rw	no	no	yes
1600h (2)	-	2nd Mapped Object	V	-	no	UINT32	0	-1	688980000	-	1	1	0	rw	no	no	yes
1600h (3)	-	3rd Mapped Object	V	-	no	UINT32	0	-1	689045536	-	1	1	0	rw	no	no	yes
1600h (4)	-	4th Mapped Object	V	-	no	UINT32	0	-1	689111072	-	1	1	0	rw	no	no	yes
1600h (5)	-	5th Mapped Object	V	-	no	UINT32	0	-1	689176608	-	1	1	0	rw	no	no	yes
1600h (6)	-	6th Mapped Object	V	-	no	UINT32	0	-1	689242144	-	1	1	0	rw	no	no	yes
1600h (7)	-	7th Mapped Object	V	-	no	UINT32	0	-1	689307680	-	1	1	0	rw	no	no	yes
1600h (8)	-	8th Mapped Object	V	-	no	UINT32	0	-1	689373216	-	1	1	0	rw	no	no	yes
1600h (9)	-	9th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (10)	-	10th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (11)	-	11th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (12)	-	12th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (13)	-	13th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (14)	-	14th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (15)	-	15th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (16)	-	16th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (17)	-	17th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (18)	-	18th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (19)	-	19th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (20)	-	20th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (21)	-	21st Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (22)	-	22nd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (23)	-	23rd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (24)	-	24th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (25)	-	25th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (26)	-	26th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (27)	-	27th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (28)	-	28th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (29)	-	29th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (30)	-	30th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (31)	-	31st Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1600h (32)	-	32nd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1601h (0)	-	2nd receive PDO mapping	S	-	no	UINT8	0	8	0	-	1	1	0	rw	no	no	yes
1601h (1)	-	1st Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1601h (7)	-	7th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1601h (8)	-	8th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1602h (0)	-	3rd receive PDO mapping	S	-	no	UINT8	0	8	0	-	1	1	0	rw	no	no	yes
1602h (1)	-	1st Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
1602h (7)	-	7th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1602h (8)	-	8th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1603h (0)	-	4th receive PDO mapping	S	-	no	UINT8	0	8	0	-	1	1	0	rw	no	no	yes
1603h (1)	-	1st Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1603h (2)	-	2nd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1603h (3)	-	3rd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1603h (4)	-	4th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1603h (5)	-	5th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1603h (6)	-	6th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1603h (7)	-	7th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1603h (8)	-	8th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1800h (0)	-	1st TPDO communication parameter	S	-	no	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
1800h (1)	-	cob-ID	V	-	no	UINT32	1	-1	385	-	1	1	0	rw	no	no	yes
1800h (5)	-	event time	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	no	no	yes
1801h (0)	-	2nd TPDO communication parameter	S	-	no	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
1801h (1)	-	cob-ID	V	-	no	UINT32	1	-1	641	-	1	1	0	rw	no	no	yes
1801h (5)	-	event time	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	no	no	yes
1802h (0)	-	3rd TPDO communication parameter	S	-	no	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
1802h (1)	-	cob-ID	V	-	no	UINT32	1	-1	897	-	1	1	0	rw	no	no	yes
1802h (5)	-	event time	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	no	no	yes
1803h (0)	-	4th TPDO communication parameter	S	-	no	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
1A00h (0)	-	1st transmit PDO mapping	S	-	no	UINT8	0	32	8	-	1	1	0	rw	no	no	yes
1A00h (1)	-	1st Mapped Object	V	-	no	UINT32	0	-1	688914464	-	1	1	0	rw	no	no	yes
1A00h (2)	-	2nd Mapped Object	V	-	no	UINT32	0	-1	688980000	-	1	1	0	rw	no	no	yes
1A00h (3)	-	3rd Mapped Object	V	-	no	UINT32	0	-1	689045536	-	1	1	0	rw	no	no	yes
1A00h (4)	-	4th Mapped Object	V	-	no	UINT32	0	-1	689111072	-	1	1	0	rw	no	no	yes
1A00h (5)	-	5th Mapped Object	V	-	no	UINT32	0	-1	689176608	-	1	1	0	rw	no	no	yes
1A00h (6)	-	6th Mapped Object	V	-	no	UINT32	0	-1	689242144	-	1	1	0	rw	no	no	yes
1A00h (7)	-	7th Mapped Object	V	-	no	UINT32	0	-1	689307680	-	1	1	0	rw	no	no	yes
1A00h (8)	-	8th Mapped Object	V	-	no	UINT32	0	-1	689373216	-	1	1	0	rw	no	no	yes
1A00h (9)	-	9th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (10)	-	10th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (11)	-	11th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (12)	-	12th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (13)	-	13th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (14)	-	14th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (15)	-	15th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (16)	-	16th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
1A00h (17)	-	17th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (18)	-	18th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (19)	-	19th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (20)	-	20th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (21)	-	21st Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (22)	-	22nd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (23)	-	23rd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (24)	-	24th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (25)	-	25th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (26)	-	26th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (27)	-	27th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (28)	-	28th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (29)	-	29th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (30)	-	30th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (31)	-	31st Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A00h (32)	-	32nd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A01h (0)	-	2nd transmit PDO mapping	S	-	no	UINT8	0	8	0	-	1	1	0	rw	no	no	yes
1A01h (1)	-	1st Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A01h (7)	-	7th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A01h (8)	-	8th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A02h (0)	-	3rd transmit PDO mapping	S	-	no	UINT8	0	8	0	-	1	1	0	rw	no	no	yes
1A02h (1)	-	1st Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A02h (7)	-	7th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A02h (8)	-	8th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A03h (0)	-	4th transmit PDO mapping	S	-	no	UINT8	0	8	0	-	1	1	0	rw	no	no	yes
1A03h (2)	-	2nd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A03h (3)	-	3rd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A03h (4)	-	4th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A03h (5)	-	5th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A03h (6)	-	6th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A03h (7)	-	7th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A03h (8)	-	8th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1C00h (0)	-	Sync Manager Communication Type	A	4	no	UINT8	0	4	0	-	1	1	0	ro	yes	no	no
1C12h (0)	-	sync manager 2 PDO assign	A	2	no	UINT16	5632	5633	5632	-	1	1	0	rw	no	no	yes
1C13h (0)	-	sync manager 3 PDO assign	A	2	no	UINT16	6656	6657	6656	-	1	1	0	rw	no	no	yes
1C32h (0)	-	Output sync manager para	S	-	yes	UINT8	32	32	32	-	1	1	0	ro	yes	no	no
1C32h (1)	-	Sync mode	V	-	no	UINT16	0	3	0	-	1	1	0	ro	yes	no	no
1C32h (2)	-	Cycle Time	V	-	no	UINT32	0	16000000	500000	µs	1	1000	0	rw	no	no	yes

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
1C32h (4)	-	Sync modes supported	V	-	no	UINT16	0	65535	5	-	1	1	0	ro	yes	no	no
1C32h (5)	-	Minimum Cycle Time	V	-	no	UINT32	0	16000000	500000	µs	1	1000	0	ro	yes	no	no
1C32h (6)	-	Calc and Copy Time	V	-	no	UINT32	0	-1	0	µs	1	1000	0	ro	yes	no	no
1C32h (11)	-	SM-Event Missed	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
1C32h (12)	-	Cycle Time Too Small	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
1C32h (32)	-	Sync Error	V	-	yes	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
1C33h (0)	-	Input sync manager para	S	-	yes	UINT8	32	32	32	-	1	1	0	ro	yes	no	no
1C33h (1)	-	Sync mode	V	-	no	UINT16	0	3	0	-	1	1	0	ro	yes	no	no
1C33h (2)	-	Cycle Time	V	-	no	UINT32	0	16000000	500000	µs	1	1000	0	rw	no	no	yes
1C33h (4)	-	Sync modes supported	V	-	no	UINT16	0	65535	5	-	1	1	0	ro	yes	no	no
1C33h (5)	-	Minimum Cycle Time	V	-	no	UINT32	0	16000000	500000	µs	1	1000	0	ro	yes	no	no
1C33h (6)	-	Calc and Copy Time	V	-	no	UINT32	0	-1	0	µs	1	1000	0	ro	yes	no	no
1C33h (11)	-	SM-Event Missed	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
1C33h (12)	-	Cycle Time Too Small	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
6042h (0)	-	vl target velocity	V	-	yes	INT16	-32767	32767	0	1/ min	1	1	0	rw	yes	no	no
6043h (0)	-	vl velocity demand	V	-	yes	INT16	-32767	32767	0	1/ min	1	1	0	ro	yes	no	no
6044h (0)	-	vl velocity actual value	V	-	yes	INT16	-32767	32767	0	1/ min	1	1	0	ro	yes	no	no
605Ah (0)	-	quick stop option code	V	-	no	INT16	-6	0	0	-	1	1	0	rw	yes	no	no
605Bh (0)	-	shutdown option code	V	-	no	INT16	-2	1	0	-	1	1	0	rw	yes	no	no
605Ch (0)	-	disable operation option code	V	-	no	INT16	-2	1	1	-	1	1	0	rw	yes	no	no
605Eh (0)	-	fault reaction option code	V	-	no	INT16	-1	0	-1	-	1	1	0	rw	yes	no	no
6060h (0)	-	modes of operation	V	-	yes	INT8	-2	10	2	-	1	1	0	rw	yes	no	no
6061h (0)	-	modes of operation display	V	-	yes	INT8	-1	127	0	-	1	1	0	ro	yes	no	no
6062h (0)	-	position demand value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
6064h (0)	-	position actual value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
6065h (0)	-	following error window	V	-	no	UINT32	0	2147483647	5000	-	1	1	0	rw	yes	no	no
6066h (0)	-	following error time out	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
6067h (0)	-	position window	V	-	no	UINT32	0	2147483647	5000	-	1	1	0	rw	yes	no	no
6068h (0)	-	position window time	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
606Bh (0)	-	velocity demand value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
606Ch (0)	-	velocity actual value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
6071h (0)	-	target torque	V	-	yes	INT16	-32767	32767	0	-	1	1	0	rw	yes	no	no
6072h (0)	-	max torque	V	-	yes	UINT16	0	10000	2000	-	1	1	0	rw	yes	no	no
6077h (0)	-	torque actual value	V	-	yes	INT16	-32767	32767	0	-	1	1	0	ro	yes	no	no
607Ah (0)	-	target position	V	-	yes	INT32	-2147483648	2147483647	0	-	1	1	0	rw	yes	no	no
607Bh (0)	-	position range limit	A	2	yes	INT32	-2147483648	2147483647	-2147483648	-	1	1	0	rw	yes	no	no



	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
607Ch (0)	-	home offset	V	-	yes	INT32	-2147483648	2147483647	0	-	1	1	0	rw	yes	no	no
607Dh (0)	-	software position limit	A	2	yes	INT32	-2147483648	2147483647	-2147483648	-	1	1	0	rw	yes	no	no
607Fh (0)	-	max profile velocity	V	-	yes	UINT32	0	128000	1000	-	1	1	0	rw	yes	no	no
6080h (0)	-	max. motor speed	V	-	yes	UINT32	0	128000	128000	-	1	1	0	rw	yes	no	no
6081h (0)	-	profile velocity	V	-	yes	UINT32	0	128000	0	-	1	1	0	rw	yes	no	no
6082h (0)	-	end velocity	V	-	yes	UINT32	0	128000	0	-	1	1	0	rw	yes	no	no
6083h (0)	-	profile acceleration	V	-	yes	UINT32	655	-1	1310720	-	1	1	0	rw	yes	no	no
6098h (0)	-	homing method	V	-	yes	INT8	1	37	37	-	1	1	0	rw	yes	no	no
6099h (0)	-	homing speed	A	2	yes	UINT32	0	2147483647	800	-	1	1	0	rw	yes	no	no
609Ah (0)	-	homing acceleration	V	-	yes	UINT32	1	1747626666	2000	-	1	1	0	rw	yes	no	no
60B1h (0)	-	velocity offset	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	rw	yes	no	no
60B2h (0)	-	torque offset	V	-	yes	INT16	-32767	32767	0	-	1	1	0	rw	yes	no	no
60B8h (0)	-	touch probe function	V	-	yes	UINT16	0	59	0	-	1	1	0	rw	yes	no	no
60B9h (0)	-	touch probe status	V	-	yes	UINT16	0	255	0	-	1	1	0	ro	yes	no	no
60BAh (0)	-	touch probe pos1 pos value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
60BBh (0)	-	touch probe pos1 neg value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
60C2h (0)	-	interpolation time period	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
60C2h (1)	-	interpolation time value	V	-	no	UINT8	0	127	0	-	1	1	0	rw	yes	no	no
60C2h (2)	-	interpolation time index	V	-	no	INT8	-128	63	-6	-	1	1	0	rw	yes	no	no
60D0h (0)	-	touch probe source	A	1	no	INT16	1	5	1	-	1	1	0	rw	yes	no	no
60E0h (0)	-	positive torque limit value	V	-	yes	UINT16	0	10000	5000	-	1	1	0	rw	yes	no	no
60E1h (0)	-	negative torque limit value	V	-	yes	UINT16	0	10000	5000	-	1	1	0	rw	yes	no	no
60F4h (0)	-	following error actual value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
60FFh (0)	-	target velocity	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	rw	yes	no	no
6502h (0)	-	supported drive modes	V	-	yes	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
6600h (0)	-	Time unit	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
6601h (0)	-	Position unit	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
6602h (0)	-	Velocity unit	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
6603h (0)	-	Acceleration Unit	V	-	no	UINT32	0	-1	22272	-	1	1	0	ro	yes	no	no
6611h (0)	-	Safe position actual value 32Bit	V	-	no	INT32	-2147483648	2147483647	0	-	1	1	0	ro	yes	no	no
6613h (0)	-	Safe velocity actual value 32Bit	V	-	no	INT32	-2147483648	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
1003h (0)	-	Pre-defined error field	S	-	no	UINT8	0	5	0	-	1	1	0	rw	yes	no	no
100Dh (0)	-	life time factor	V	-	no	UINT8	0	255	0	-	1	1	0	rw	no	no	yes
1003h (1)	-	Standard error field	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
1018h (3)	-	revision number	V	-	no	UINT32	0	100000	0	-	1	1	0	ro	yes	no	no
1018h (4)	-	serial number	V	-	no	UINT32	0	-1	-1	-	1	1	0	ro	yes	no	no
1029h (0)	-	error behavior	A	1	no	UINT8	0	2	1	-	1	1	0	rw	no	no	yes

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
1400h (0)	-	1st RPDO communication parameter	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
1401h (0)	-	2nd RPDO communication parameter	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
1402h (0)	-	3rd RPDO communication parameter	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
1403h (0)	-	4th RPDO communication parameter	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
1403h (1)	-	cob-ID	V	-	no	UINT32	1	-1	1281	-	1	1	0	rw	no	no	yes
1403h (2)	-	transmission type	V	-	no	UINT8	0	255	254	-	1	1	0	rw	no	no	yes
1601h (2)	-	2nd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1601h (3)	-	3rd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1601h (4)	-	4th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1601h (5)	-	5th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1601h (6)	-	6th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1602h (2)	-	2nd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1602h (3)	-	3rd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1602h (4)	-	4th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1602h (5)	-	5th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1602h (6)	-	6th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
160Fh (0)	in15	configuration ID	V	-	no	UINT16	9310	9310	9310	-	1	1	0	rw	yes	no	no
1800h (2)	-	transmission type	V	-	no	UINT8	0	255	254	-	1	1	0	rw	no	no	yes
1800h (3)	-	inhibit time	V	-	no	UINT16	0	65535	100	ms	1	10	0	rw	no	no	yes
1800h (4)	-	reserved	V	-	no	UINT8	0	0	0	-	1	1	0	ro	yes	no	no
1801h (2)	-	transmission type	V	-	no	UINT8	0	255	254	-	1	1	0	rw	no	no	yes
1801h (3)	-	inhibit time	V	-	no	UINT16	0	65535	100	ms	1	10	0	rw	no	no	yes
1801h (4)	-	reserved	V	-	no	UINT8	0	0	0	-	1	1	0	ro	yes	no	no
1802h (2)	-	transmission type	V	-	no	UINT8	0	255	254	-	1	1	0	rw	no	no	yes
1802h (3)	-	inhibit time	V	-	no	UINT16	0	65535	100	ms	1	10	0	rw	no	no	yes
1802h (4)	-	reserved	V	-	no	UINT8	0	0	0	-	1	1	0	ro	yes	no	no
1803h (1)	-	cob-ID	V	-	no	UINT32	1	-1	1153	-	1	1	0	rw	no	no	yes
1803h (2)	-	transmission type	V	-	no	UINT8	0	255	254	-	1	1	0	rw	no	no	yes
1803h (3)	-	inhibit time	V	-	no	UINT16	0	65535	100	ms	1	10	0	rw	no	no	yes
1803h (4)	-	reserved	V	-	no	UINT8	0	0	0	-	1	1	0	ro	yes	no	no
1803h (5)	-	event time	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	no	no	yes
1A01h (2)	-	2nd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A01h (3)	-	3rd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A01h (4)	-	4th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A01h (5)	-	5th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A01h (6)	-	6th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A02h (2)	-	2nd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A02h (3)	-	3rd Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
1A02h (4)	-	4th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A02h (5)	-	5th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A02h (6)	-	6th Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1A03h (1)	-	1st Mapped Object	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
1C33h (32)	-	Sync Error	V	-	yes	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
2008h (0)	de08	device configuration ID	V	-	no	UINT16	0	32767	0	-	1	1	0	ro	yes	no	no
200Ah (0)	de10	operator cfg data	S	-	no	UINT8	9	9	9	-	1	1	0	ro	yes	no	no
200Ah (1)	de10	idx start object	V	-	no	INT32	0	2147483647	11265	-	1	1	0	rw	yes	no	no
200Ah (2)	de10	supported baud rates	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
200Ah (3)	de10	baud rate addr.	V	-	no	INT32	-1	32767	0	-	1	1	0	ro	yes	no	no
200Ah (4)	de10	sw version addr.	V	-	no	INT32	-1	2147483647	0	-	1	1	0	ro	yes	no	no
200Ah (5)	de10	sw date addr.	V	-	no	INT32	-1	2147483647	0	-	1	1	0	ro	yes	no	no
200Ah (6)	de10	supported services 31-0	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
200Ah (7)	de10	supported services 63-32	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
200Ah (8)	de10	watchdog addr.	V	-	no	INT32	-1	2147483647	0	-	1	1	0	ro	yes	no	no
200Ah (9)	de10	com mode	V	-	no	UINT32	0	250000	0	-	1	1	0	rw	yes	no	no
200Dh (0)	de13	ctrl hw type	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
200Fh (0)	de15	ctrl type	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2010h (0)	de16	ctrl software version	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2011h (0)	de17	ctrl software date	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2012h (0)	de18	fpga core version	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2013h (0)	de19	fpga core date	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2015h (0)	de21	file system	S	-	yes	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
2015h (1)	de21	max bytes	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2015h (2)	de21	used bytes	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2015h (3)	de21	max files	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2015h (4)	de21	used files	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2018h (0)	de24	power software version	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2019h (0)	de25	power software date	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
201Ah (0)	de26	saved inverter data ID	V	-	no	INT32	-1	2147483647	-1	-	1	1	0	ro	yes	no	no
201Bh (0)	de27	inverter data ID	V	-	no	INT32	-1	2147483647	-1	-	1	1	0	rw	no	yes	no
201Ch (0)	de28	inverter rated current	V	-	no	UINT32	0	2147483647	0	A	1	100	0	ro	yes	no	no
201Dh (0)	de29	inverter maximum current	V	-	no	UINT32	0	2147483647	0	A	1	100	0	ro	yes	no	no
201Eh (0)	de30	inverter rated voltage	V	-	no	UINT16	0	65535	0	V	1	10	0	ro	yes	no	no
201Fh (0)	de31	inverter maximum DC voltage	V	-	no	UINT16	0	65535	0	V	1	10	0	ro	yes	no	no
2020h (0)	de32	inverter minimum DC voltage	V	-	no	UINT16	0	65535	0	V	1	10	0	ro	yes	no	no
2021h (0)	de33	inverter rated switching frequency	V	-	no	UINT16	0	65535	0	kH z	1	100	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2022h (0)	de34	inverter maximum switching frequency	V	-	no	UINT16	0	65535	0	kH z	1	100	0	ro	yes	no	no
2023h (0)	de35	inverter intermed. circuit capacity [uF]	V	-	no	UINT16	0	65535	65535	-	1	1	0	ro	yes	no	no
2024h (0)	de36	braking transistor default level	V	-	no	UINT16	0	65535	65535	V	1	10	0	ro	yes	no	no
2025h (0)	de37	saved safety serial number	V	-	no	INT32	-1	2147483647	-1	-	1	1	0	ro	yes	no	no
2027h (0)	de39	saved safety type	V	-	no	INT32	-1	2147483647	-1	-	1	1	0	ro	yes	no	no
202Ah (0)	de42	safety software version	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
202Bh (0)	de43	safety software date	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
202Ch (0)	de44	KTY software version	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
202Dh (0)	de45	KTY software date	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2032h (0)	de50	fieldbus stack version	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2033h (0)	de51	fieldbus stack date	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2034h (0)	de52	enc interf software version	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2035h (0)	de53	enc interf software date	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2050h (0)	de80	additional inverter data	S	-	no	UINT8	10	10	10	-	1	1	0	ro	yes	no	no
2050h (1)	de80	current scale value	V	-	no	UINT32	0	100000000	0	A	1	10000	0	ro	yes	no	no
2050h (2)	de80	power unit data format	V	-	no	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
2050h (4)	de80	ChecksumLong	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2050h (5)	de80	analog PU ID	V	-	no	UINT16	0	255	0	-	1	1	0	ro	yes	no	no
2050h (6)	de80	PU data check status	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2050h (7)	de80	default UDiode	V	-	no	UINT16	0	65535	0	V	1	100	0	rw	yes	no	no
2050h (8)	de80	default dt tDelay [ns]	V	-	no	INT16	-30000	30000	0	-	1	1	0	rw	yes	no	no
2050h (9)	de80	default dt capacity [nF]	V	-	no	UINT16	0	65535	0	-	1	100	0	rw	yes	no	no
2050h (10)	de80	OL2 reference current	V	-	no	UINT32	0	100000000	0	A	1	10000	0	ro	yes	no	no
2056h (0)	de86	built-in brake resistor	S	-	no	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
2056h (3)	de86	single resistor value	V	-	no	UINT32	0	200000	0	Ω	1	100	0	ro	yes	no	no
206Bh (0)	de107	get MD5 hash	V	-	no	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
206Ch (0)	de108	MD5 hash	A	4	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
206Dh (0)	de109	exclusions from MD5	V	-	yes	UINT32	0	7	0	-	1	1	0	rw	yes	no	no
2073h (0)	de115	global drive status mask	V	-	no	UINT32	0	-1	-1	-	1	1	0	rw	yes	no	no
2078h (0)	de120	max output frequency	V	-	yes	UINT32	0	2147483647	0	Hz	1	1	0	rw	no	yes	no
2100h (0)	st00	(CiA 0x6041) statusword	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2101h (0)	st01	(CiA 0x603F) error code	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2102h (0)	st02	(CiA 0x6061) modes of operation display	V	-	yes	INT8	-1	127	0	-	1	1	0	ro	yes	no	no
2103h (0)	st03	(CiA 0x6043) vl velocity demand	V	-	yes	INT32	-32767	32767	0	1/ min	1	1	0	ro	yes	no	no
2104h (0)	st04	brake ctrl status	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
210Ch (0)	st12	state machine display	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
210Dh (0)	st13	state and error display	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
210Eh (0)	st14	active controlword	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
210Fh (0)	st15	combined controlword	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2120h (0)	st32	(CiA 0x606C) velocity actual value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
2121h (0)	st33	(CiA 0x6064) position actual value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
2122h (0)	st34	(CiA 0x6077) torque actual value	V	-	yes	INT16	-32767	32767	0	-	1	1	0	ro	yes	no	no
2123h (0)	st35	system counter	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2124h (0)	st36	(CiA 0x60F4) following error actual value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
2130h (0)	st48	rho actual value	V	-	yes	INT16	-32768	32767	0	-	1	1	0	ro	yes	no	no
2200h (0)	dr00	motor type	V	-	no	UINT8	0	4	0	-	1	1	0	rw	yes	no	no
2203h (0)	dr03	rated current	V	-	no	UINT32	1	110000	300	A	1	100	0	rw	yes	no	no
2205h (0)	dr05	rated voltage	V	-	no	UINT16	10	830	400	V	1	1	0	rw	yes	no	no
2206h (0)	dr06	rated frequency	V	-	no	UINT32	1	3200000	50000	Hz	1	1000	0	rw	yes	no	no
2208h (0)	dr08	magnetising current %	V	-	no	UINT16	0	1000	0	%	1	10	0	rw	yes	no	no
220Bh (0)	dr11	max. torque %	V	-	no	UINT16	0	60000	3000	%	1	10	0	rw	yes	no	no
220Ch (0)	dr12	max. current %	V	-	no	UINT16	10	60000	3000	%	1	10	0	rw	yes	no	no
220Dh (0)	dr13	breakdown torque %	V	-	no	UINT16	0	60000	1500	%	1	10	0	rw	yes	no	no
220Eh (0)	dr14	SM EMF [Vpk/(1000min-1)]	V	-	no	UINT32	0	60000000	110000	-	1	1000	0	rw	yes	no	no
220Fh (0)	dr15	SM inductance q-axis UV	V	-	no	UINT32	1	6000000	100000	mH	1	1000	0	rw	yes	no	no
2210h (0)	dr16	SM inductance d-axis %	V	-	no	UINT16	1	10000	1000	%	1	10	0	rw	yes	no	no
2211h (0)	dr17	stator resistance UV	V	-	no	UINT32	1	2500000	30000	Ω	1	10000	0	rw	yes	no	no
2212h (0)	dr18	ASM rotor resist. UV %	V	-	no	UINT16	1	6000	1000	%	1	10	0	rw	yes	no	no
2213h (0)	dr19	ASM head inductance UV	V	-	no	UINT32	1	6000000	64000	mH	1	1000	0	rw	yes	no	no
2215h (0)	dr21	ASM sigma stator ind. UV	V	-	no	UINT32	1	6000000	3200	mH	1	1000	0	rw	yes	no	no
2216h (0)	dr22	ASM sigma rotor ind. %	V	-	no	UINT16	1	10000	1000	%	1	10	0	rw	yes	no	no
2219h (0)	dr25	breakdown speed %	V	-	no	UINT16	1	10000	1000	%	1	10	0	rw	yes	no	no
221Ch (0)	dr28	Uic reference voltage	V	-	no	UINT16	10	830	565	V	1	1	0	rw	yes	no	no
221Dh (0)	dr29	max. id current fct. [Imax]	V	-	no	UINT16	0	1000	1000	-	1	1000	0	rw	yes	no	no
221Eh (0)	dr30	user drive temp. sensor def.	S	-	no	UINT8	38	38	38	-	1	1	0	ro	yes	no	no
221Eh (1)	dr30	temp value 1	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (2)	dr30	temp value 2	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (3)	dr30	temp value 3	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (4)	dr30	temp value 4	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (5)	dr30	temp value 5	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (6)	dr30	temp value 6	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (7)	dr30	temp value 7	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (8)	dr30	temp value 8	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (9)	dr30	temp value 9	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
221Eh (10)	dr30	temp value 10	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (11)	dr30	temp value 11	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (12)	dr30	temp value 12	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (13)	dr30	temp value 13	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (14)	dr30	temp value 14	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (15)	dr30	temp value 15	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (16)	dr30	temp value 16	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (17)	dr30	temp value 17	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (18)	dr30	temp value 18	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (19)	dr30	temp value 19	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (20)	dr30	temp value 20	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (21)	dr30	temp value 21	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (22)	dr30	temp value 22	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (23)	dr30	temp value 23	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (24)	dr30	temp value 24	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (25)	dr30	temp value 25	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (26)	dr30	temp value 26	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (27)	dr30	temp value 27	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (28)	dr30	temp value 28	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (29)	dr30	temp value 29	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (30)	dr30	temp value 30	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (31)	dr30	temp value 31	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (32)	dr30	temp value 32	V	-	no	INT16	-999	999	0	°C	1	1	0	rw	yes	no	no
221Eh (33)	dr30	R min	V	-	no	INT16	0	32767	0	Ω	1	1	0	rw	yes	no	no
221Eh (34)	dr30	R max	V	-	no	INT16	0	32767	1800	Ω	1	1	0	rw	yes	no	no
221Eh (35)	dr30	short circuit level	V	-	no	INT16	0	32767	100	Ω	1	1	0	rw	yes	no	no
221Eh (36)	dr30	no connection level	V	-	no	INT16	0	32767	1700	Ω	1	1	0	rw	yes	no	no
221Eh (37)	dr30	act. calc. resistance (R)	V	-	no	INT16	0	32767	0	Ω	1	1	0	ro	yes	no	no
221Eh (38)	dr30	Rv	V	-	no	INT16	0	32767	1910	Ω	1	1	0	ro	yes	no	no
2220h (0)	dr32	inertia motor (kg*cm^2)	V	-	no	UINT32	0	2000000000	200	-	1	100	0	rw	yes	no	no
2221h (0)	dr33	motor temp sensor type	V	-	no	UINT8	0	5	0	-	1	1	0	rw	yes	no	no
2222h (0)	dr34	motorprotection curr. %	V	-	no	UINT16	1	10000	1000	%	1	10	0	rw	yes	no	no
2223h (0)	dr35	SM prot.time min. Is/Id	V	-	no	UINT8	1	255	2	s	1	10	0	rw	yes	no	no
2224h (0)	dr36	SM prot.time Imax	V	-	no	UINT8	1	255	2	s	1	10	0	rw	yes	no	no
2225h (0)	dr37	SM prot.recovery time	V	-	no	UINT16	1	6000	5	s	1	10	0	rw	yes	no	no
2226h (0)	dr38	SM prot. min. Is/Id	V	-	no	UINT16	1	5000	1500	%	1	10	0	rw	yes	no	no
2227h (0)	dr39	ASM prot. mode	V	-	no	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
222Ch (0)	dr44	speed (Lh/EMF ident.) %	V	-	no	UINT16	0	10000	650	%	1	10	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
222Dh (0)	dr45	ASM u/f boost	V	-	no	UINT16	0	16384	328	%	100	16384	0	rw	yes	no	no
222Eh (0)	dr46	ASM u/f V1	V	-	no	UINT16	0	16384	0	%	100	16384	0	rw	yes	no	no
222Fh (0)	dr47	ASM u/f F1	V	-	no	UINT32	0	3200000	0	Hz	1	1000	0	rw	yes	no	no
2230h (0)	dr48	u/f characteristic mode	V	-	no	UINT8	0	1	0	Hz	1	1	0	rw	yes	no	no
2231h (0)	dr49	sinus filter ind. UV	V	-	no	UINT32	0	6000000	1	mH	1	1000	0	rw	yes	no	no
2232h (0)	dr50	sinus filter cap. UV high res. [uF]	V	-	no	UINT32	0	6553500	0	-	1	1000	0	rw	yes	no	no
2233h (0)	dr51	sinus filter resistance UV	V	-	no	UINT32	0	2500000	1	Ω	1	10000	0	rw	yes	no	no
2234h (0)	dr52	sinus filter cap. UV [uF]	V	-	no	UINT16	0	65535	0	-	1	10	0	rw	yes	no	no
2235h (0)	dr53	sinus filt. min. switch. freq.	V	-	no	UINT16	0	65535	0	kH z	1	100	0	rw	yes	no	no
2236h (0)	dr54	ident	V	-	no	UINT16	0	47	0	-	1	1	0	rw	yes	no	no
2237h (0)	dr55	ident state	V	-	yes	UINT16	0	255	0	-	1	1	0	rw	yes	no	no
2238h (0)	dr56	ident Ls/sigma curr. (ampl. mod.)	V	-	no	UINT16	1	10000	1000	%	1	10	0	rw	yes	no	no
2239h (0)	dr57	ident error info	V	-	yes	UINT16	0	255	0	-	1	1	0	rw	yes	no	no
2240h (0)	dr64	bp filter critical freq. calc.	V	-	no	UINT16	1	200	1	kH z	1	10	0	ro	yes	no	no
2241h (0)	dr65	bp filter frequency set	V	-	no	UINT16	0	65535	0	kH z	1	10	0	rw	yes	no	no
2201h (0)	dr01	motor part number	A	11	no	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
2207h (0)	dr07	ASM rated cos(phi)	V	-	no	UINT8	1	100	86	-	1	100	0	rw	yes	no	no
2209h (0)	dr09	rated torque	V	-	no	UINT32	0	128000000	5000	Nm	1	1000	0	rw	yes	no	no
3502h (0)	is02	Uic comp voltage limit	V	-	yes	UINT16	10	800	400	V	1	1	0	rw	yes	no	no
3503h (0)	is03	deadtime switch on/off	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3503h (1)	is03	speed level [% dr04]	V	-	no	UINT16	0	60000	0	%	1	10	0	rw	yes	no	no
3503h (2)	is03	fading time	V	-	no	UINT16	0	60000	10	ms	1	1	0	rw	yes	no	no
3504h (0)	is04	deadtime IGBT-model	S	-	no	UINT8	12	12	12	-	1	1	0	ro	yes	no	no
3504h (1)	is04	delta UDiode	V	-	no	INT16	-30000	30000	0	V	1	100	0	rw	yes	no	no
3504h (2)	is04	delta tDelay [ns]	V	-	no	INT16	-30000	30000	0	-	1	1	0	rw	yes	no	no
3504h (3)	is04	delta C [nF]	V	-	no	INT16	-30000	30000	0	-	1	100	0	rw	yes	no	no
3504h (12)	is04	safety factor	V	-	no	INT16	0	10000	10000	%	1	100	0	rw	yes	no	no
3507h (0)	is07	deadtime comp mode	V	-	no	UINT16	0	28	3	-	1	1	0	rw	yes	no	no
3508h (0)	is08	comp limit fact	V	-	no	UINT16	0	20000	10000	%	1	100	0	rw	yes	no	no
3509h (0)	is09	comp current fact	V	-	no	UINT16	0	20000	10000	%	1	100	0	rw	yes	no	no
350Ah (0)	is10	switching frequency	V	-	no	UINT16	200	1600	800	kH z	1	100	0	rw	yes	no	no
350Bh (0)	is11	max current [de28%]	V	-	yes	UINT16	10	8000	8000	%	1	10	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
350Ch (0)	is12	display apparent current PT1	V	-	yes	UINT16	0	65535	4000	ms	1	1000	0	rw	yes	no	no
350Dh (0)	is13	display torque PT1	V	-	yes	UINT16	0	65535	4000	ms	1	1000	0	rw	yes	no	no
350Eh (0)	is14	overload protect mode	V	-	yes	UINT16	0	2	0	-	1	1	0	rw	yes	no	no
350Fh (0)	is15	temp dep derating	V	-	no	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
3510h (0)	is16	min. derating frequency	V	-	yes	UINT16	0	800	0	kH z	1	100	0	rw	yes	no	no
3511h (0)	is17	temperature dependent OL2 offset	V	-	yes	UINT16	0	18	0	-	1	1	0	rw	yes	no	no
3512h (0)	is18	UP error level	V	-	no	UINT16	500	10000	2400	V	1	10	0	rw	yes	no	no
3513h (0)	is19	UP reset level	V	-	no	UINT16	3000	10000	3000	V	1	10	0	rw	yes	no	no
3514h (0)	is20	OL2 prot. gain	V	-	yes	UINT16	0	45000	0	-	1	100	0	rw	yes	no	no
3515h (0)	is21	OL2 safety fact	V	-	yes	UINT16	500	1000	950	%	1	10	0	rw	yes	no	no
3516h (0)	is22	Basic Tp	V	-	no	UINT8	0	11	0	-	1	1	0	rw	no	no	yes
3517h (0)	is23	deadtime PT1-time	V	-	no	UINT16	0	60000	500	ms	1	1000	0	rw	yes	no	no
3518h (0)	is24	act. deadtime mode	V	-	yes	UINT8	0	4	0	-	1	1	0	ro	yes	no	no
351Ah (0)	is26	HS fan start temp	V	-	no	INT16	-1	5000	0	°C	1	10	0	rw	yes	no	no
351Bh (0)	is27	ID fan start temp	V	-	no	INT16	-1	5000	0	°C	1	10	0	rw	yes	no	no
351Ch (0)	is28	HS fan full speed temp	V	-	no	INT16	0	5000	0	°C	1	10	0	rw	yes	no	no
351Dh (0)	is29	ID fan full speed temp	V	-	no	INT16	0	5000	0	°C	1	10	0	rw	yes	no	no
351Eh (0)	is30	braking transistor function	V	-	no	UINT16	0	1	0	-	1	1	0	rw	yes	no	no
351Fh (0)	is31	braking resistor data	S	-	yes	UINT8	9	9	9	-	1	1	0	ro	yes	no	no
351Fh (1)	is31	rated resistance at 20 degrees C	V	-	no	UINT32	0	200000	0	Ω	1	100	0	rw	yes	no	no
351Fh (2)	is31	average dissipated power	V	-	yes	UINT32	0	-1	0	W	1	1	0	ro	yes	no	no
351Fh (3)	is31	current electrical resistance	V	-	yes	UINT32	0	-1	0	Ω	1	100	0	ro	yes	no	no
351Fh (4)	is31	current wire temperature	V	-	yes	INT16	-1000	32767	200	°C	1	10	0	ro	yes	no	no
351Fh (5)	is31	peak wire temperature	V	-	no	INT16	-1000	32767	200	°C	1	10	0	rw	no	no	yes
351Fh (6)	is31	peak power over braking resistor	V	-	no	UINT32	0	-1	0	W	1	1	0	rw	no	no	yes
351Fh (7)	is31	error resistor data	V	-	yes	UINT8	0	5	1	-	1	1	0	ro	yes	no	no
351Fh (8)	is31	cumulated energy over braking resistor	V	-	no	UINT32	0	2147483647	0	kW h	1	100	0	rw	no	no	yes
351Fh (9)	is31	current power over braking resistor	V	-	yes	UINT32	0	-1	0	W	1	1	0	ro	yes	no	no
3522h (0)	is34	display power PT1	V	-	yes	UINT16	0	65535	4000	ms	1	1000	0	rw	yes	no	no
3523h (0)	is35	set current limit	V	-	no	UINT16	5000	9500	8333	%	1	100	0	rw	yes	no	no
3524h (0)	is36	hard/soft. curr. reg. (HSR,SSR)	V	-	no	UINT8	0	6	0	-	1	1	0	rw	yes	no	no
3525h (0)	is37	HSR/SSR current [OCLimit%]	V	-	no	UINT16	10	1000	833	%	1	10	0	rw	yes	no	no
3526h (0)	is38	HSR/SSR active counter	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3527h (0)	is39	display actual speed PT1	V	-	yes	UINT16	0	65535	4000	ms	1	1000	0	rw	yes	no	no
3600h (0)	dd00	rotor detection	V	-	yes	UINT16	0	511	0	-	1	1	0	rw	yes	no	no



	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3601h (0)	dd01	SCL rotor detection	V	-	yes	UINT16	0	511	107	-	1	1	0	rw	yes	no	no
3602h (0)	dd02	rotor detection current	V	-	yes	UINT16	1	3999	1000	%	1	10	0	rw	yes	no	no
3603h (0)	dd03	cvv current ramping time	V	-	yes	UINT16	0	16000	500	ms	1	1	0	rw	yes	no	no
2202h (0)	dr02	motordata state	V	-	no	UINT8	0	3	0	-	1	1	0	ro	yes	no	no
2204h (0)	dr04	rated speed	V	-	no	UINT32	1	8192000	90880	1/ min	1	64	0	rw	yes	no	no
2400h (0)	ds00	KP current q-axis [V/A]	V	-	no	UINT32	0	2147483647	1	-	1	10000	0	rw	yes	no	no
2401h (0)	ds01	Tn current q-axis	V	-	no	UINT32	0	2147483647	1	ms	1	1000	0	rw	yes	no	no
2402h (0)	ds02	KP current d-axis [V/A]	V	-	no	UINT32	0	2147483647	1	-	1	10000	0	rw	yes	no	no
2403h (0)	ds03	Tn current d-axis	V	-	no	UINT32	0	2147483647	1	ms	1	1000	0	rw	yes	no	no
2404h (0)	ds04	current mode	V	-	no	UINT16	0	16383	9265	-	1	1	0	rw	yes	no	no
2406h (0)	ds06	omega decoupling time	V	-	no	UINT16	0	60000	0	ms	1	1000	0	rw	yes	no	no
2407h (0)	ds07	observer factor	V	-	no	UINT16	0	600	50	%	1	10	0	rw	yes	no	no
2408h (0)	ds08	deviation control time	V	-	no	UINT16	0	60000	2000	ms	1	1000	0	rw	yes	no	no
240Bh (0)	ds11	torque mode	V	-	no	UINT16	0	63	1	-	1	1	0	rw	yes	no	no
240Dh (0)	ds13	torquelimit curve factor	V	-	no	UINT16	1	16000	1000	%	1	10	0	rw	yes	no	no
240Eh (0)	ds14	current ctrl. factor	V	-	yes	UINT16	1	8000	1000	%	1	10	0	rw	yes	no	no
240Fh (0)	ds15	dyn dec curr. ctrl. factor	V	-	no	UINT16	1	1000	100	%	1	10	0	rw	yes	no	no
2410h (0)	ds16	anti windup speed level	V	-	no	UINT16	0	3999	0	%	1	10	0	rw	yes	no	no
2412h (0)	ds18	Rs model stabilisation	S	-	no	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
2412h (1)	ds18	Rs model stabilisation mode	V	-	no	UINT16	0	3	0	-	1	1	0	rw	yes	no	no
2412h (2)	ds18	Rs adaption high limit	V	-	no	UINT16	0	2000	1400	%	1	10	0	rw	yes	no	no
2412h (3)	ds18	Rs adaption low limit	V	-	no	UINT16	0	2000	800	%	1	10	0	rw	yes	no	no
2412h (4)	ds18	Rs adaption factor	V	-	no	UINT16	0	2000	800	%	1	10	0	rw	yes	no	no
241Bh (0)	ds27	(A)SCL time speed calc.	V	-	no	UINT16	0	65535	250	ms	1	1000	0	rw	yes	no	no
241Ch (0)	ds28	(A)SCL filter speed calc.	V	-	no	UINT16	0	65535	2000	ms	1	1000	0	rw	yes	no	no
241Eh (0)	ds30	model mode	V	-	no	UINT16	0	63	3	-	1	1	0	rw	yes	no	no
241Fh (0)	ds31	SynRM nest optimisation fct.	V	-	no	UINT8	19	100	25	-	1	10	0	rw	yes	no	no
2420h (0)	ds32	SCL stab.term speed	V	-	no	UINT16	0	3999	200	%	1	10	0	rw	yes	no	no
2421h (0)	ds33	SCL stab.term time	V	-	no	UINT32	0	2147483647	1000	ms	1	1000	0	rw	yes	no	no
2422h (0)	ds34	stab term max. torque	V	-	no	UINT16	0	8000	0	%	1	10	0	rw	yes	no	no
2423h (0)	ds35	SCL stabilisation current	V	-	no	INT16	-8000	8000	500	%	1	10	0	rw	yes	no	no
2424h (0)	ds36	min speed for stab.curr.	V	-	no	UINT16	0	3999	50	%	1	10	0	rw	yes	no	no
2425h (0)	ds37	max speed for stab.curr.	V	-	no	UINT16	0	3999	100	%	1	10	0	rw	yes	no	no
2426h (0)	ds38	SCL standstill current	V	-	no	UINT16	0	8000	1000	%	1	10	0	rw	yes	no	no
2429h (0)	ds41	model ctrl	V	-	no	UINT16	0	1023	8	-	1	1	0	rw	yes	no	no
242Ah (0)	ds42	model ctrl. ref. speed time	V	-	no	UINT16	0	60000	200	ms	1	1	0	rw	yes	no	no
242Bh (0)	ds43	model ctrl. act. speed time	V	-	no	UINT16	0	60000	200	ms	1	1	0	rw	yes	no	no

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242Eh (0)	ds46	model ctrl. act. speed level	V	-	no	UINT16	0	60000	1000	%	1	10	0	rw	yes	no	no
242Fh (0)	ds47	model ctrl. act. speed hyst.	V	-	no	UINT16	0	3999	200	%	1	10	0	rw	yes	no	no
2430h (0)	ds48	model ctrl min. acc/dec [s-2]	V	-	no	UINT32	0	1747626666	10000	-	1	100	0	rw	yes	no	no
2437h (0)	ds55	lsd offset	V	-	no	INT16	-8000	8000	0	%	1	10	0	rw	yes	no	no
243Ch (0)	ds60	protection function	S	-	no	UINT8	7	7	7	-	1	1	0	ro	yes	no	no
243Ch (1)	ds60	u/f current limit ctrl mode	V	-	no	UINT16	0	7	0	-	1	1	0	rw	yes	no	no
243Ch (2)	ds60	ramp stopping mode	V	-	no	UINT16	0	31	0	-	1	1	0	rw	yes	no	no
243Ch (3)	ds60	LD-U stop voltage level	V	-	no	UINT16	0	15000	7800	V	1	10	0	rw	yes	no	no
243Ch (4)	ds60	LAD-I KI [1/As]	V	-	no	UINT32	0	2147483647	10000	-	1	1000	0	rw	yes	no	no
243Ch (5)	ds60	LAD-I KDI [1/As]	V	-	no	UINT32	0	2147483647	10000	-	1	1000	0	rw	yes	no	no
243Ch (6)	ds60	LD-U KI [1/Vs]	V	-	no	UINT32	0	2147483647	10000	-	1	1000	0	rw	yes	no	no
243Ch (7)	ds60	LD-U KDI [1/Vs]	V	-	no	UINT32	0	2147483647	10000	-	1	1000	0	rw	yes	no	no
243Dh (0)	ds61	DC braking source	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
243Eh (0)	ds62	DC braking	S	-	yes	UINT8	8	8	8	-	1	1	0	ro	yes	no	no
243Eh (1)	ds62	braking mode	V	-	no	UINT32	0	5265	0	-	1	1	0	rw	yes	no	no
243Eh (2)	ds62	timing mode	V	-	no	UINT16	0	31	0	-	1	1	0	rw	yes	no	no
243Eh (3)	ds62	modulation off time	V	-	no	UINT16	0	60000	100	s	1	100	0	ro	yes	no	no
243Eh (4)	ds62	max.DC current [%In]	V	-	no	UINT16	0	10000	1000	%	1	10	0	rw	yes	no	no
243Eh (5)	ds62	DC boost [%Un]	V	-	no	UINT16	0	16384	4096	%	100	16384	0	rw	yes	no	no
243Eh (6)	ds62	braking time	V	-	no	UINT16	0	60000	100	s	1	100	0	rw	yes	no	no
243Eh (7)	ds62	braking speed level [%Nn]	V	-	no	UINT16	0	1000	20	%	1	10	0	rw	yes	no	no
243Eh (8)	ds62	braking state	V	-	yes	UINT8	0	5	0	-	1	1	0	ro	yes	no	no
243Fh (0)	ds63	ASiCL ctrl. mode	S	-	no	UINT8	7	7	7	-	1	1	0	ro	yes	no	no
243Fh (1)	ds63	ASiCL curr. ctrl IsqPt1	V	-	no	UINT16	0	60000	20	ms	1	1	0	rw	yes	no	no
243Fh (2)	ds63	ASiCL slip calculation IsqPt1	V	-	no	UINT16	0	60000	200	ms	1	1	0	rw	yes	no	no
243Fh (3)	ds63	ASiCL curr.ctrl. delay at zero	V	-	no	UINT16	0	60000	200	ms	1	1	0	rw	yes	no	no
243Fh (4)	ds63	ASiCL Rs model stabilisation mode	V	-	no	UINT16	0	3	1	-	1	1	0	rw	yes	no	no
243Fh (5)	ds63	ASiCL Rs adaption high limit	V	-	no	UINT16	0	2000	1200	%	1	10	0	rw	yes	no	no
243Fh (6)	ds63	ASiCL Rs adaption low limit	V	-	no	UINT16	0	2000	800	%	1	10	0	rw	yes	no	no
2242h (0)	dr66	bp filter q-factor	V	-	no	UINT16	0	10	5	-	1	10	0	rw	yes	no	no
2263h (0)	dr99	motordata control	V	-	no	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
240Ch (0)	ds12	adaption mode	V	-	no	UINT16	0	63	0	-	1	1	0	rw	yes	no	no
2411h (0)	ds17	bp filter coeff.	A	9	yes	INT32	-131068	131068	131068	-	1	1	0	rw	yes	no	no
2304h (0)	vi04	vl velocity min amount for	V	-	no	UINT32	0	128000	0	1/ min	1	1	0	rw	yes	no	no
2305h (0)	vi05	vl velocity max amount for	V	-	no	UINT32	0	128000	2000	1/ min	1	1	0	rw	yes	no	no
2306h (0)	vi06	vl velocity min amount rev	V	-	no	UINT32	0	128000	0	1/ min	1	1	0	rw	yes	no	no

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2307h (0)	vl07	vl velocity max amount rev	V	-	no	UINT32	0	128000	2000	1/ min	1	1	0	rw	yes	no	no
2314h (0)	vl20	(CiA 0x6042) vl target velocity	V	-	yes	INT32	-128000	128000	0	1/ min	1	1	0	rw	yes	no	no
2315h (0)	vl21	target velocity high res	V	-	yes	INT32	-1048576000	1048576000	0	1/ min	1	8192	0	rw	yes	no	no
2500h (0)	co00	(CiA 0x6040) controlword	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
2501h (0)	co01	(CiA 0x6060) modes of operation	V	-	yes	INT8	-2	10	2	-	1	1	0	rw	yes	no	no
2502h (0)	co02	velocity shift factor	V	-	no	UINT8	0	13	10	-	1	1	0	rw	yes	no	no
2503h (0)	co03	position rot.scale (bit)	V	-	yes	UINT16	2	30	16	-	1	1	0	rw	yes	no	no
2504h (0)	co04	position source	V	-	yes	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
2505h (0)	co05	speed control source	V	-	no	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
2506h (0)	co06	system inversion	V	-	yes	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
2507h (0)	co07	non volatile memory state	V	-	no	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
2508h (0)	co08	reset options	V	-	no	UINT8	0	3	0	-	1	1	0	rw	yes	no	no
2509h (0)	co09	reset ctrl	V	-	no	UINT16	0	1	0	-	1	1	0	rw	yes	no	no
250Ah (0)	co10	position interpolator	V	-	no	UINT8	0	31	4	-	1	1	0	rw	yes	no	no
250Bh (0)	co11	velocity interpolator	V	-	no	UINT8	0	31	4	-	1	1	0	rw	yes	no	no
250Ch (0)	co12	torque interpolator	V	-	no	UINT8	0	31	0	-	1	1	0	rw	yes	no	no
250Dh (0)	co13	pos. pre control	V	-	yes	UINT32	0	150000	0	µs	1	1	0	rw	yes	no	no
250Fh (0)	co15	(CiA 0x6071) target torque	V	-	yes	INT16	-32767	32767	0	-	1	1	0	rw	yes	no	no
2510h (0)	co16	(CiA 0x60FF) target velocity	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	rw	yes	no	no
2511h (0)	co17	(CiA 0x60B1) velocity offset	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	rw	yes	no	no
2512h (0)	co18	(CiA 0x60B2) torque offset	V	-	yes	INT16	-32767	32767	0	-	1	1	0	rw	yes	no	no
2513h (0)	co19	(CiA 0x607A) target position	V	-	yes	INT32	-2147483648	2147483647	0	-	1	1	0	rw	yes	no	no
2514h (0)	co20	internal pretorque fact	V	-	yes	UINT32	0	655360	65536	%	25	16384	0	rw	yes	no	no
2515h (0)	co21	brake ctrl mode	V	-	no	UINT16	0	2047	16	-	1	1	0	rw	yes	no	no
2516h (0)	co22	brake ctrl open delay	V	-	no	UINT16	0	10000	0	ms	1	1	0	rw	yes	no	no
2517h (0)	co23	brake ctrl open time	V	-	no	UINT16	0	10000	0	ms	1	1	0	rw	yes	no	no
2518h (0)	co24	brake ctrl closing delay	V	-	no	UINT16	0	10000	0	ms	1	1	0	rw	yes	no	no
2519h (0)	co25	brake ctrl closing time	V	-	no	UINT16	0	10000	0	ms	1	1	0	rw	yes	no	no
251Ah (0)	co26	brake ctrl	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
251Ah (1)	co26	start speed	V	-	yes	INT32	-128000	128000	0	1/ min	1	1	0	rw	yes	no	no
251Ah (2)	co26	stop speed	V	-	yes	INT32	-128000	128000	0	1/ min	1	1	0	rw	yes	no	no
251Ah (3)	co26	pre torque setting	V	-	yes	INT16	-32767	32767	0	-	1	1	0	rw	yes	no	no
251Ah (4)	co26	speed ctrl (KI) adaption	V	-	yes	UINT32	0	100000	1000	%	1	10	0	rw	yes	no	no
251Ah (5)	co26	fadeout reducing time	V	-	no	UINT16	0	10000	0	ms	1	1	0	rw	yes	no	no
251Ah (6)	co26	fadeout zero time	V	-	no	UINT16	0	10000	0	ms	1	1	0	rw	yes	no	no

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251Bh (0)	co27	phase check ctrl	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
251Bh (1)	co27	phase check mode	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
251Bh (2)	co27	error level information	V	-	yes	UINT16	0	65535	0	%	1	100	0	ro	yes	no	no
251Ch (0)	co28	combined controlword mask	A	3	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
251Dh (0)	co29	source connect type	A	3	no	UINT32	0	4194304	0	-	1	1	0	rw	yes	no	no
251Eh (0)	co30	controlword mask	V	-	no	UINT16	0	65535	65535	-	1	1	0	rw	yes	no	no
251Fh (0)	co31	controlword internal	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
2520h (0)	co32	state machine properties	V	-	no	UINT16	0	16383	78	-	1	1	0	rw	yes	no	no
2521h (0)	co33	ctrlword mirror bit	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
2522h (0)	co34	statusword mirror bit	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
2524h (0)	co36	inertia reducing mode	V	-	yes	UINT8	0	23	0	-	1	1	0	rw	yes	no	no
2525h (0)	co37	inertia reduce fact	A	64	no	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
2526h (0)	co38	inertia derivation fact	A	64	no	INT8	-127	127	0	-	1	1	0	rw	yes	no	no
2527h (0)	co39	inertia derivation [kg*cm <sup>2</sup> ]	V	-	yes	INT32	0	2147483647	0	-	1	100	0	rw	yes	no	no
2528h (0)	co40	weight comp fact	A	64	no	INT8	-127	127	0	-	1	1	0	rw	yes	no	no
2529h (0)	co41	weight comp torque	V	-	yes	INT16	0	32767	0	-	1	1	0	rw	yes	no	no
252Ah (0)	co42	speed angle offset	V	-	yes	INT32	-57266231	57266231	0	µs	50	28633	0	rw	yes	no	no
252Bh (0)	co43	speed ctrl reduce fact	A	64	no	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
2530h (0)	co48	acceleration for [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2531h (0)	co49	deceleration for [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2532h (0)	co50	acceleration rev [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2533h (0)	co51	deceleration rev [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2534h (0)	co52	for acc jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2535h (0)	co53	for acc jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2536h (0)	co54	for dec jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2537h (0)	co55	for dec jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2538h (0)	co56	rev acc jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2539h (0)	co57	rev acc jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
253Ah (0)	co58	rev dec jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
253Bh (0)	co59	rev dec jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
253Ch (0)	co60	ramp mode	V	-	yes	UINT8	0	255	1	-	1	1	0	rw	yes	no	no
253Dh (0)	co61	torque lim mode	V	-	yes	UINT16	0	8191	0	-	1	1	0	rw	yes	no	no
253Eh (0)	co62	selectable stop mode torque	V	-	yes	INT16	0	10000	1000	%	1	10	0	rw	yes	no	no
253Fh (0)	co63	dM/dt limit [Mn%/ms]	V	-	yes	INT16	0	10000	0	%	1	100	0	rw	yes	no	no
2552h (0)	co82	ext. modules ctrl word	V	-	no	UINT32	0	1	1	-	1	1	0	rw	yes	no	no
2553h (0)	co83	non volatile memory mode	V	-	no	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
2554h (0)	co84	torque resolution	V	-	no	UINT8	0	4	0	-	1	1	0	rw	yes	no	no
2601h (0)	do01	flag operand A	A	8	yes	UINT16	0	71	27	-	1	1	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2602h (0)	do02	flag operand B	A	8	yes	UINT16	0	71	28	-	1	1	0	rw	yes	no	no
2603h (0)	do03	flag operator mode	A	8	yes	UINT16	0	255	5	-	1	1	0	rw	yes	no	no
2605h (0)	do05	flag level 1	A	8	yes	INT32	-2147483648	2147483647	0	-	1	10000	0	rw	yes	no	no
2606h (0)	do06	flag level 2	A	8	yes	INT32	-2147483648	2147483647	0	-	1	1	0	rw	yes	no	no
2607h (0)	do07	flag hyst. operand B	A	8	yes	INT32	0	2147483647	0	-	1	10000	0	rw	yes	no	no
2608h (0)	do08	filter time flags	A	8	yes	UINT32	0	10000000	0	ms	1	1000	0	rw	yes	no	no
260Ah (0)	do10	dig. out ext. source	V	-	yes	UINT16	0	255	0	-	1	1	0	rw	yes	no	no
260Ch (0)	do12	dig. output src. sel.	V	-	no	UINT32	0	65535	0	-	1	1	0	rw	yes	no	no
260Dh (0)	do13	select flag for connection	A	4	yes	UINT16	0	255	0	-	1	1	0	rw	yes	no	no
260Fh (0)	do15	number of flags	V	-	yes	UINT8	0	8	4	-	1	1	0	rw	yes	no	no
2610h (0)	do16	number of connected flags	V	-	yes	UINT8	0	4	4	-	1	1	0	rw	yes	no	no
2613h (0)	do19	AND operation for output	V	-	no	UINT16	0	255	0	-	1	1	0	rw	yes	no	no
2615h (0)	do21	select flag O2	V	-	yes	UINT16	0	4095	2	-	1	1	0	rw	yes	no	no
2618h (0)	do24	select flag OA	V	-	yes	UINT16	0	4095	1	-	1	1	0	rw	yes	no	no
2619h (0)	do25	select flag OB	V	-	yes	UINT16	0	4095	2	-	1	1	0	rw	yes	no	no
261Ah (0)	do26	select flag OC	V	-	yes	UINT16	0	4095	4	-	1	1	0	rw	yes	no	no
261Bh (0)	do27	select flag Relais	V	-	yes	UINT16	0	4095	0	-	1	1	0	rw	yes	no	no
261Ch (0)	do28	invert flags output	A	8	yes	UINT16	0	4095	0	-	1	1	0	rw	yes	no	no
261Eh (0)	do30	number of counter units	V	-	yes	UINT16	0	2	0	-	1	1	0	rw	yes	no	no
261Fh (0)	do31	counter unit mode	A	2	yes	UINT16	0	255	0	-	1	1	0	rw	yes	no	no
2620h (0)	do32	run source parameter	A	2	yes	UINT8	0	3	0	-	1	1	0	rw	yes	no	no
2621h (0)	do33	run source bit	A	2	yes	UINT16	0	32768	0	-	1	1	0	rw	yes	no	no
2622h (0)	do34	reset source parameter	A	2	yes	UINT8	0	3	0	-	1	1	0	rw	yes	no	no
2623h (0)	do35	reset source bit	A	2	yes	UINT16	0	32768	0	-	1	1	0	rw	yes	no	no
2624h (0)	do36	count source parameter	A	2	yes	UINT8	0	3	0	-	1	1	0	rw	yes	no	no
262Eh (0)	do46	variable operand mask	A	2	yes	UINT32	0	-1	-1	-	1	1	0	rw	yes	no	no
262Fh (0)	do47	variable operand value unsigned	A	2	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2630h (0)	do48	variable operand value signed	A	2	yes	INT32	-2147483648	2147483647	0	-	1	1	0	ro	yes	no	no
2700h (0)	cs00	control mode	V	-	no	UINT8	0	19	16	-	1	1	0	rw	yes	no	no
2701h (0)	cs01	KP speed [%Mn/rpm]	V	-	no	UINT32	0	10737418	100	-	1	10000	0	rw	yes	no	no
2703h (0)	cs03	variable KP speed gain	V	-	no	UINT16	0	10240	0	-	1	1024	0	rw	yes	no	no
2704h (0)	cs04	var.KP speed max. offset	V	-	no	UINT16	0	5120	0	%	100	1024	0	rw	yes	no	no
2705h (0)	cs05	Tn speed	V	-	no	UINT32	0	1073741823	250	ms	1	1000	0	rw	yes	no	no
2706h (0)	cs06	variable KP speed offset	V	-	no	UINT16	0	65535	0	%	1	10	0	rw	yes	no	no
2707h (0)	cs07	variable KI speed offset	V	-	no	UINT16	0	65535	0	%	1	10	0	rw	yes	no	no
2708h (0)	cs08	speed for max. KP/KI	V	-	no	UINT16	0	10000	50	%	1	10	0	rw	yes	no	no
2709h (0)	cs09	speed for normal KP/KI	V	-	no	UINT16	0	10000	100	%	1	10	0	rw	yes	no	no
270Ch (0)	cs12	(CiA 0x6072) max torque	V	-	yes	UINT16	0	10000	2000	%	1	10	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
270Dh (0)	cs13	torque limit mot. for.	V	-	yes	INT16	0	10000	5000	%	1	10	0	rw	yes	no	no
270Eh (0)	cs14	torque limit mot. rev.	V	-	yes	INT16	-1	10000	-1	%	1	10	0	rw	yes	no	no
270Fh (0)	cs15	torque limit gen. for.	V	-	yes	INT16	-2	10000	-2	%	1	10	0	rw	yes	no	no
2710h (0)	cs16	torque limit gen. rev.	V	-	yes	INT16	-2	10000	-2	%	1	10	0	rw	yes	no	no
2711h (0)	cs17	inertia load (kg*cm^2)	V	-	no	UINT32	0	2000000000	0	-	1	100	0	rw	yes	no	no
2712h (0)	cs18	ref. position PT1-time	V	-	yes	UINT16	0	60000	0	ms	1	1000	0	rw	yes	no	no
2713h (0)	cs19	ref. speed PT1-time	V	-	yes	UINT16	0	60000	0	ms	1	1000	0	rw	yes	no	no
2714h (0)	cs20	torque ref. PT1-time	V	-	no	UINT16	0	60000	1000	ms	1	1000	0	rw	yes	no	no
2715h (0)	cs21	pretorque mode	V	-	no	UINT16	0	2	2	-	1	1	0	rw	yes	no	no
2716h (0)	cs22	pretorque PT1-time	V	-	yes	UINT16	0	60000	0	ms	1	1000	0	rw	yes	no	no
2717h (0)	cs23	pretorque delta time	V	-	no	UINT16	1	8	4	ms	1000	4000	0	rw	yes	no	no
2718h (0)	cs24	pretorque factor	V	-	yes	UINT16	0	60000	1000	%	1	10	0	rw	yes	no	no
2719h (0)	cs25	speed ctrl (KP) adaption	V	-	yes	UINT16	0	8000	1000	%	1	10	0	rw	yes	no	no
271Ah (0)	cs26	speed ctrl (KI) adaption	V	-	yes	UINT16	0	8000	1000	%	1	10	0	rw	yes	no	no
4800h (0)	ec00	status encoder interface B	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
4801h (0)	ec01	error encoder interface B	V	-	yes	UINT16	0	500	0	-	1	1	0	ro	yes	no	no
4802h (0)	ec02	warning encoder interf. B	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
271Bh (0)	cs27	speed ctrl KP/KI adapt mode	V	-	no	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
2763h (0)	cs99	optimisation factor	V	-	no	UINT8	19	100	40	-	1	10	0	rw	yes	no	no
2801h (0)	ec01	error encoder interface	V	-	yes	UINT16	0	500	0	-	1	1	0	ro	yes	no	no
2802h (0)	ec02	warning encoder interf.	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
280Eh (0)	ec14	encoder interf. gen. settings	V	-	no	UINT8	0	3	2	-	1	1	0	rw	yes	no	no
2810h (0)	ec16	encoder type	V	-	no	UINT8	0	22	0	-	1	1	0	rw	yes	no	no
2811h (0)	ec17	detected encoder type	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2812h (0)	ec18	error encoder	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2813h (0)	ec19	warning encoder	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2816h (0)	ec22	rho encoder value	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2817h (0)	ec23	system offset (SM)	V	-	yes	UINT16	0	65535	57057	-	1	1	0	rw	yes	no	no
2818h (0)	ec24	gear numerator	V	-	no	UINT16	0	65535	1000	-	1	1	0	rw	yes	no	no
2819h (0)	ec25	gear denominator	V	-	no	UINT16	1	65535	1000	-	1	1	0	rw	yes	no	no
281Ah (0)	ec26	speed scan time	V	-	no	UINT8	2	7	5	-	1	1	0	rw	yes	no	no
281Bh (0)	ec27	speed PT1-time	V	-	no	UINT32	0	256000	1000	ms	1	1000	0	rw	yes	no	no
281Ch (0)	ec28	revolution range	V	-	no	UINT8	0	7	4	-	1	1	0	rw	yes	no	no
281Dh (0)	ec29	signal periods per revolution	V	-	no	INT32	0	500000000	2048	-	1	1	0	rw	yes	no	no
281Eh (0)	ec30	resolver pole pairs	V	-	no	UINT8	1	255	1	-	1	1	0	rw	yes	no	no
281Fh (0)	ec31	zero pulse pos.	V	-	no	UINT32	0	-1	0	IN C	1	1	0	ro	yes	no	no
2820h (0)	ec32	max. pos. error	V	-	no	UINT8	0	180	20	-	1	1	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2821h (0)	ec33	abs. pos. accuracy	V	-	no	UINT16	0	65535	4	IN C	1	1	0	rw	yes	no	no
2823h (0)	ec35	pos. calc. mode	V	-	no	UINT8	0	7	0	-	1	1	0	rw	yes	no	no
2824h (0)	ec36	several encoder functions	V	-	no	UINT8	0	7	0	-	1	1	0	rw	yes	no	no
2828h (0)	ec40	singleturn res.	V	-	no	UINT8	0	40	0	-	1	1	0	rw	yes	no	no
2829h (0)	ec41	multiturn res.	V	-	no	UINT8	0	40	0	-	1	1	0	rw	yes	no	no
282Ah (0)	ec42	SSI data format	V	-	no	UINT8	0	31	8	-	1	1	0	rw	yes	no	no
282Bh (0)	ec43	SSI clock freq.	V	-	no	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
282Ch (0)	ec44	SSI allocation absolute / incremental position	V	-	no	UINT8	0	3	0	-	1	1	0	rw	yes	no	no
282Eh (0)	ec46	encoder read/write	V	-	no	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
4810h (0)	ec16	encoder type B	V	-	no	UINT8	0	22	0	-	1	1	0	rw	yes	no	no
4811h (0)	ec17	detected encoder type B	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
4812h (0)	ec18	error encoder B	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
4813h (0)	ec19	warning encoder B	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
4816h (0)	ec22	rho encoder value B	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
4817h (0)	ec23	system offset (SM) B	V	-	yes	UINT16	0	65535	57057	-	1	1	0	rw	yes	no	no
4818h (0)	ec24	gear numerator B	V	-	no	UINT16	0	65535	1000	-	1	1	0	rw	yes	no	no
4819h (0)	ec25	gear denominator B	V	-	no	UINT16	1	65535	1000	-	1	1	0	rw	yes	no	no
481Ah (0)	ec26	speed scan time B	V	-	no	UINT8	2	7	5	-	1	1	0	rw	yes	no	no
481Bh (0)	ec27	speed PT1-time B	V	-	no	UINT32	0	256000	1000	ms	1	1000	0	rw	yes	no	no
481Ch (0)	ec28	revolution range B	V	-	no	UINT8	0	7	4	-	1	1	0	rw	yes	no	no
481Dh (0)	ec29	signal periods per revolution B	V	-	no	INT32	0	500000000	2048	-	1	1	0	rw	yes	no	no
481Fh (0)	ec31	zero pulse pos. B	V	-	no	UINT32	0	-1	0	IN C	1	1	0	ro	yes	no	no
4820h (0)	ec32	max. pos. error B	V	-	no	UINT8	0	180	20	-	1	1	0	rw	yes	no	no
4821h (0)	ec33	abs. pos. accuracy B	V	-	no	UINT16	0	65535	4	IN C	1	1	0	rw	yes	no	no
4823h (0)	ec35	pos. calc. mode B	V	-	no	UINT8	0	7	0	-	1	1	0	rw	yes	no	no
4824h (0)	ec36	several encoder functions B	V	-	no	UINT8	0	7	0	-	1	1	0	rw	yes	no	no
4828h (0)	ec40	singleturn res. B	V	-	no	UINT8	0	40	0	-	1	1	0	rw	yes	no	no
4829h (0)	ec41	multiturn res. B	V	-	no	UINT8	0	40	0	-	1	1	0	rw	yes	no	no
482Ah (0)	ec42	SSI data format B	V	-	no	UINT8	0	31	8	-	1	1	0	rw	yes	no	no
482Bh (0)	ec43	SSI clock freq. B	V	-	no	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
482Ch (0)	ec44	SSI allocation absolute / incremental position B	V	-	no	UINT8	0	3	0	-	1	1	0	rw	yes	no	no
4830h (0)	ec48	saved encoder serial number B	A	12	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
4831h (0)	ec49	encoder serial number B	A	12	no	UINT8	0	255	0	-	1	1	0	rw	no	yes	no
4832h (0)	ec50	virtual round for linear encoder B	V	-	no	INT32	1	500000000	1	-	1	1	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2800h (0)	ec00	status encoder interface	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2963h (0)	aa99	error level slow irq	V	-	no	UINT16	0	65535	1000	%	1	10	0	rw	no	yes	no
2965h (0)	aa101	time main task	V	-	yes	UINT16	0	65535	0	ms	1	16	0	ro	yes	no	no
2967h (0)	aa103	max time main task	V	-	yes	UINT16	0	0	0	ms	1	16	0	rw	yes	no	no
2A03h (0)	pn03	OL warning level	V	-	yes	UINT16	0	1000	800	%	1	10	0	rw	yes	no	no
2A04h (0)	pn04	E.OL stop mode	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
2A05h (0)	pn05	OL2 warning level	V	-	yes	UINT16	200	1000	800	%	1	10	0	rw	yes	no	no
2A06h (0)	pn06	temperature warning setting mode	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
2A07h (0)	pn07	OH warning level	V	-	yes	UINT16	0	1500	700	°C	1	10	0	rw	yes	no	no
2A08h (0)	pn08	E.OH stop mode	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
2A09h (0)	pn09	OHI warning level	V	-	yes	UINT16	0	1500	600	°C	1	10	0	rw	yes	no	no
2A0Ah (0)	pn10	E.OHI stop mode	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
2A0Bh (0)	pn11	dOH warning level	V	-	yes	UINT16	0	2000	1000	°C	1	10	0	rw	yes	no	no
2A0Ch (0)	pn12	E.dOH stop mode	V	-	yes	UINT8	0	9	0	-	1	1	0	rw	yes	no	no
2A0Dh (0)	pn13	E.dOH delay time	V	-	yes	UINT16	0	1200	0	s	1	10	0	rw	yes	no	no
2A0Eh (0)	pn14	dOH error level	V	-	yes	UINT16	0	2000	1500	°C	1	10	0	rw	yes	no	no
2A0Fh (0)	pn15	OH2 warning level	V	-	yes	UINT16	0	1000	1000	%	1	10	0	rw	yes	no	no
2A10h (0)	pn16	E.OH2 stop mode	V	-	yes	UINT8	0	9	0	-	1	1	0	rw	yes	no	no
2A11h (0)	pn17	eff. load time	V	-	yes	UINT16	1	30000	100	s	1	100	0	rw	yes	no	no
2A12h (0)	pn18	sw.- switch limit left	V	-	yes	INT32	-2147483648	2147483647	-2147483648	IN C	1	1	0	rw	yes	no	no
2A13h (0)	pn19	sw.- switch limit right	V	-	yes	INT32	-2147483648	2147483647	2147483647	IN C	1	1	0	rw	yes	no	no
2A14h (0)	pn20	E.SW-switch stop mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
2A15h (0)	pn21	fieldbus watchdog time	V	-	yes	UINT16	0	16000	4000	ms	1	4	0	rw	yes	no	no
2A16h (0)	pn22	E.fb watchdog stop mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
2A1Ah (0)	pn26	overspeed level	V	-	yes	UINT16	0	8000	2000	%	1	10	0	rw	yes	no	no
2A1Bh (0)	pn27	E.overspeed stop mode	V	-	yes	UINT8	0	8	0	-	1	1	0	rw	yes	no	no
2A1Ch (0)	pn28	warning mask	V	-	yes	UINT32	0	16777215	127	-	1	1	0	rw	yes	no	no
2A1Dh (0)	pn29	prg. error stop. mode	V	-	yes	UINT8	0	9	7	-	1	1	0	rw	yes	no	no
2A1Eh (0)	pn30	prg. error source	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
2A1Fh (0)	pn31	enable braking trans. source	V	-	yes	UINT16	0	4095	0	-	1	1	0	rw	yes	no	no
2A20h (0)	pn32	braking transistor level	V	-	no	UINT16	0	15000	7800	V	1	10	0	rw	yes	no	no
2A21h (0)	pn33	braking transistor options	V	-	no	UINT16	0	511	5	-	1	1	0	rw	yes	no	no
2A22h (0)	pn34	E.encoder A stop mode	V	-	yes	UINT8	0	8	0	-	1	1	0	rw	yes	no	no
2A23h (0)	pn35	E.encoder B stop mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
2A24h (0)	pn36	max acc/dec level [s-2]	V	-	yes	INT32	1	1747626666	436906667	-	1	100	0	rw	yes	no	no



	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2A25h (0)	pn37	E.max acc/dec stop mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
2A26h (0)	pn38	speed difference level	V	-	yes	UINT16	0	8000	50	%	1	10	0	rw	yes	no	no
2A27h (0)	pn39	speed difference time	V	-	yes	UINT16	0	65535	100	ms	1	4	0	rw	yes	no	no
2A28h (0)	pn40	speed difference stop mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
2A29h (0)	pn41	speed difference calculation mode	V	-	yes	UINT16	0	515	1	-	1	1	0	rw	yes	no	no
2A2Ah (0)	pn42	E.Uph stopping mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
2A2Bh (0)	pn43	UPS operation	S	-	yes	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
2A2Bh (1)	pn43	enable UPS operation	V	-	yes	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
2A2Bh (2)	pn43	UPS enable source	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
2A2Bh (3)	pn43	UPS operation UP offset	V	-	yes	UINT16	0	1000	0	V	1	10	0	rw	yes	no	no
2A2Bh (4)	pn43	UPS UP error level	V	-	yes	UINT16	500	10000	2000	V	1	10	0	ro	yes	no	no
2A2Bh (5)	pn43	UPS UP reset level	V	-	yes	UINT16	500	10000	2000	V	1	10	0	ro	yes	no	no
2A2Dh (0)	pn45	fault reaction time	V	-	yes	INT16	0	30000	4000	ms	1	4	0	rw	yes	no	no
2A2Eh (0)	pn46	fault reaction end src	V	-	yes	UINT16	0	4095	0	-	1	1	0	rw	yes	no	no
2A2Fh (0)	pn47	fault reaction ref velocity	V	-	yes	INT32	-128000	128000	0	1/ min	1	1	0	rw	yes	no	no
2A30h (0)	pn48	fr acceleration for [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2A31h (0)	pn49	fr deceleration for [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2A32h (0)	pn50	fr acceleration rev [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2A33h (0)	pn51	fr deceleration rev [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2A34h (0)	pn52	fr for acc jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2A35h (0)	pn53	fr for acc jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2A36h (0)	pn54	fr for dec jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2A37h (0)	pn55	fr for dec jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2A38h (0)	pn56	fr rev acc jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2A39h (0)	pn57	fr rev acc jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2A3Ah (0)	pn58	fr rev dec jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2A3Bh (0)	pn59	fr rev dec jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2A3Ch (0)	pn60	fault reaction ramp mode	V	-	yes	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
2A3Eh (0)	pn62	fault reaction properties	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
2A46h (0)	pn70	overspeed factor (EMF)	V	-	no	UINT16	0	1000	900	%	1	10	0	rw	yes	no	no
2A47h (0)	pn71	E. overspeed (EMF) st. mode	V	-	yes	UINT8	0	8	0	-	1	1	0	rw	yes	no	no
2A48h (0)	pn72	overspeed level (EMF)	V	-	yes	UINT32	0	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2A49h (0)	pn73	E.enc A changed stop mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
2A4Ah (0)	pn74	E.enc B changed stop mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
2A4Ch (0)	pn76	UP2 delay time	V	-	no	UINT16	0	10000	0	s	1	1000	0	rw	yes	no	no
2A4Dh (0)	pn77	E.UP2 stopping mode	V	-	no	UINT8	0	9	7	-	1	1	0	rw	yes	no	no
2A4Eh (0)	pn78	limit switch forward stop mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2A4Fh (0)	pn79	limit switch reverse stop mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
2A50h (0)	pn80	safety stop mode	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
2A51h (0)	pn81	warning OH stop mode	V	-	yes	UINT8	0	8	6	-	1	1	0	rw	yes	no	no
2A52h (0)	pn82	warning OHI stop mode	V	-	yes	UINT8	0	8	6	-	1	1	0	rw	yes	no	no
2A53h (0)	pn83	auto retry activation	V	-	no	UINT16	0	1	0	-	1	1	0	rw	yes	no	no
2A54h (0)	pn84	auto retry UP configuration	S	-	no	UINT8	3	3	3	-	1	1	0	ro	yes	no	no
2A54h (1)	pn84	auto retry time	V	-	no	UINT16	0	1000	0	s	1	100	0	rw	yes	no	no
2A54h (2)	pn84	fault supression mode	V	-	no	UINT16	0	7	0	-	1	1	0	rw	yes	no	no
2A54h (3)	pn84	auto retry UP acceleration [s-2]	V	-	no	INT32	0	1747626666	0	-	1	100	0	rw	yes	no	no
2A55h (0)	pn85	variable mod off time	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
2A55h (1)	pn85	customer time usage	V	-	yes	UINT8	0	15	0	-	1	1	0	rw	yes	no	no
2A55h (2)	pn85	customer modulation off time	V	-	yes	UINT16	1	1000	5	s	1	100	0	rw	yes	no	no
2A56h (0)	pn86	E.AnIn stop mode	V	-	yes	UINT8	0	136	7	-	1	1	0	rw	yes	no	no
2A57h (0)	pn87	blockage protection	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
2A57h (1)	pn87	blockage mode	V	-	yes	UINT16	0	16383	5392	-	1	1	0	rw	yes	no	no
2A57h (2)	pn87	detection speed level	V	-	yes	UINT32	0	81920000	819200	1/ min	1	8192	0	rw	yes	no	no
2A57h (3)	pn87	detection time	V	-	yes	UINT16	0	10000	100	s	1	100	0	rw	yes	no	no
2A57h (4)	pn87	blockage reaction time	V	-	yes	UINT16	0	10000	100	s	1	100	0	rw	yes	no	no
2A57h (5)	pn87	lower limit reduce	V	-	yes	UINT16	0	100	20	%	1	1	0	rw	yes	no	no
2A57h (6)	pn87	blockage detection status	V	-	yes	UINT8	0	4	0	-	1	1	0	ro	yes	no	no
2A58h (0)	pn88	relative load	S	-	yes	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
2A58h (1)	pn88	display configuration	V	-	yes	UINT16	0	255	0	-	1	1	0	rw	yes	no	no
2A58h (2)	pn88	application torque limit	V	-	yes	UINT16	0	10000	0	%	1	10	0	rw	yes	no	no
2A58h (3)	pn88	active torque limit	V	-	yes	UINT16	0	10001	0	%	1	10	0	ro	yes	no	no
2A58h (4)	pn88	active thermal limit	V	-	yes	UINT16	0	10001	0	%	1	10	0	ro	yes	no	no
2A59h (0)	pn89	stop mode warning overheat shopper resistor	V	-	yes	UINT8	0	7	6	-	1	1	0	rw	yes	no	no
2A5Ah (0)	pn90	warning level overheat shopper resistor	V	-	yes	UINT16	4000	10000	7000	°C	1	10	0	rw	yes	no	no
2A5Bh (0)	pn91	error level overheat shopper resistor	V	-	yes	UINT16	4000	10000	8000	°C	1	10	0	rw	yes	no	no
2B0Ah (0)	fb10	sync interval	V	-	no	UINT16	0	16000	0	µs	1	1	0	rw	no	no	yes
2B0Bh (0)	fb11	set sync level	V	-	no	UINT16	0	1000	20	µs	1	10	0	rw	no	no	yes
2B0Ch (0)	fb12	KP sync PLL	V	-	no	UINT16	0	256	64	-	1	1	0	rw	no	no	yes
2B0Dh (0)	fb13	DIN66019 node ID	V	-	no	UINT8	1	238	1	-	1	1	0	rw	no	no	yes
2B0Eh (0)	fb14	DIN66019 baud rate	V	-	no	UINT8	5	12	5	-	1	1	0	rw	no	no	yes
2B13h (0)	fb19	measured sync interval	V	-	yes	UINT16	0	65535	0	µs	2	3	0	ro	yes	no	no
2B1Fh (0)	fb31	no PDO data per sync cnt	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
2B20h (0)	fb32	LED 'DEV ST' blink status	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
2B25h (0)	fb37	process data access min. sync delay	V	-	no	INT16	0	32000	32000	µs	2	3	0	rw	yes	no	no
2B26h (0)	fb38	process data access max. sync delay	V	-	no	INT16	0	32000	0	µs	2	3	0	rw	yes	no	no

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2B3Ch (0)	fb60	process data size selection	V	-	no	UINT8	0	4	0	-	1	1	0	rw	no	no	yes
2B40h (0)	fb64	CAN node ID	V	-	no	UINT8	1	127	1	-	1	1	0	rw	no	no	yes
2B42h (0)	fb66	CAN baud rate	V	-	no	UINT8	1	8	7	-	1	1	0	rw	no	no	yes
2B43h (0)	fb67	fieldbus configuration	V	-	no	UINT16	0	63	1	-	1	1	0	rw	no	no	yes
2B44h (0)	fb68	fieldbus selection	V	-	no	UINT8	0	7	0	-	1	1	0	rw	no	no	yes
2B45h (0)	fb69	CAN lost messages	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2B46h (0)	fb70	CAN options	S	-	no	UINT8	7	7	7	-	1	1	0	ro	yes	no	no
2B46h (1)	fb70	CAN option code	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
2B46h (2)	fb70	Tx PDO base ID	V	-	no	UINT16	0	2044	0	-	1	1	0	rw	no	no	yes
2B46h (3)	fb70	Rx PDO base ID	V	-	no	UINT16	0	2044	0	-	1	1	0	rw	no	no	yes
2B46h (4)	fb70	Tx PDO1 cycle time	V	-	no	UINT16	10	10000	10	-	1	1	0	rw	no	no	yes
2B46h (5)	fb70	Tx PDO2 cycle time	V	-	no	UINT16	10	10000	10	-	1	1	0	rw	no	no	yes
2B46h (6)	fb70	Tx PDO3 cycle time	V	-	no	UINT16	10	10000	10	-	1	1	0	rw	no	no	yes
2B46h (7)	fb70	Tx PDO4 cycle time	V	-	no	UINT16	10	10000	10	-	1	1	0	rw	no	no	yes
2B5Ah (0)	fb90	fieldbus state	S	-	no	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
2B5Ah (1)	fb90	EtherCAT fieldbus state	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2B5Ah (2)	fb90	CANopen fieldbus state	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2B5Ah (3)	fb90	PROFINET fieldbus state	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2B5Ah (4)	fb90	POWERLINK fieldbus state	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2B5Ah (5)	fb90	EtherNet/IP fieldbus state	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2B5Bh (0)	fb91	fieldbus error code	S	-	no	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
2B5Bh (1)	fb91	EtherCAT fieldbus error code	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2B5Bh (2)	fb91	CANopen fieldbus error code	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2B5Bh (3)	fb91	PROFINET fieldbus error code	V	-	no	UINT32	0	9568255	0	-	1	1	0	ro	yes	no	no
2B5Bh (4)	fb91	POWERLINK fieldbus error code	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2B5Bh (5)	fb91	EtherNet/IP fieldbus error code	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2B64h (0)	fb100	node ID switch value	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2B65h (0)	fb101	adjusted node ID value	V	-	no	UINT8	0	255	0	-	1	1	0	rw	no	no	yes
2B66h (0)	fb102	effective node ID	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2B6Ch (0)	fb108	Ethernet over fieldbus IP configuration	S	-	no	UINT8	3	3	3	-	1	1	0	ro	yes	no	no
2B6Ch (1)	fb108	IP address	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
2B6Ch (2)	fb108	subnet mask	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
2B6Ch (3)	fb108	gateway address	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
2B6Dh (0)	fb109	basic IP configuration	S	-	no	UINT8	3	3	3	-	1	1	0	ro	yes	no	no
2B6Dh (1)	fb109	IP address	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
2B6Dh (2)	fb109	subnet mask	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
2B6Dh (3)	fb109	gateway address	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	no	no	yes
2B6Fh (0)	fb111	POWERLINK RPDO offset	A	8	no	UINT8	0	255	0	-	1	1	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
4C09h (0)	ru09	act. encoder speed B	V	-	yes	INT32	-2147483647	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2B70h (0)	fb112	POWERLINK TPDO offset	A	8	no	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
2B71h (0)	fb113	EtherNet/IP Configuration	V	-	no	UINT8	0	6	2	-	1	1	0	rw	no	no	yes
2B72h (0)	fb114	ModbusTCP Configuration	V	-	no	UINT8	0	2	2	-	1	1	0	rw	no	no	yes
2B73h (0)	fb115	ModbusTCP SubIndex	V	-	no	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
2C01h (0)	ru01	exception state	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2C02h (0)	ru02	warning bits	V	-	yes	UINT32	0	16777215	0	-	1	1	0	ro	yes	no	no
2C03h (0)	ru03	warning state	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2C04h (0)	ru04	supply unit state	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2C05h (0)	ru05	set value display	V	-	yes	INT32	-2147483647	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2C06h (0)	ru06	ramp out display	V	-	yes	INT32	-2147483647	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2C07h (0)	ru07	act. frequency	V	-	yes	INT32	-2147483647	2147483647	0	Hz	1	8192	0	ro	yes	no	no
2C08h (0)	ru08	act. value	V	-	yes	INT32	-2147483647	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2C09h (0)	ru09	act. encoder speed	V	-	yes	INT32	-2147483647	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2C0Ah (0)	ru10	act. apparent current	V	-	yes	INT32	-110000	110000	0	A	1	100	0	ro	yes	no	no
2C0Bh (0)	ru11	act. active current	V	-	yes	INT32	-110000	110000	0	A	1	100	0	ro	yes	no	no
2C0Ch (0)	ru12	act. reactive current	V	-	yes	INT32	-110000	110000	0	A	1	100	0	ro	yes	no	no
2C0Dh (0)	ru13	peak apparent current	V	-	yes	INT32	-110000	110000	0	A	1	100	0	rw	yes	no	no
2C0Eh (0)	ru14	act. Uic voltage	V	-	yes	UINT16	0	65535	0	V	1	10	0	ro	yes	no	no
2C0Fh (0)	ru15	peak Uic voltage	V	-	yes	UINT16	0	65535	0	V	1	10	0	rw	yes	no	no
2C10h (0)	ru16	act. output voltage	V	-	yes	UINT16	0	10000	0	V	1	10	0	ro	yes	no	no
2C11h (0)	ru17	modulation grade	V	-	yes	UINT16	0	1100	0	%	100	16384	0	ro	yes	no	no
2C12h (0)	ru18	dig. input state	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2C13h (0)	ru19	internal output state	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2C14h (0)	ru20	dig. output state	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2C15h (0)	ru21	dig. output flags	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2C17h (0)	ru23	reference torque	V	-	yes	INT16	-32768	32767	0	%	1	10	0	ro	yes	no	no
2C18h (0)	ru24	actual torque	V	-	yes	INT16	-32768	32767	0	%	1	10	0	ro	yes	no	no
2C19h (0)	ru25	heatsink temperature values	S	-	yes	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
2C19h (1)	ru25	heatsink temperature 1	V	-	yes	INT16	-32767	32767	0	°C	1	10	0	ro	yes	no	no
2C19h (2)	ru25	heatsink temperature 2	V	-	yes	INT16	-32767	32767	0	°C	1	10	0	ro	yes	no	no
2C19h (3)	ru25	heatsink temperature 3	V	-	yes	INT16	-32767	32767	0	°C	1	10	0	ro	yes	no	no
2C19h (4)	ru25	minimal distance to OH	V	-	yes	INT16	-32767	32767	0	°C	1	10	0	ro	yes	no	no
2C1Ah (0)	ru26	internal temperature values	S	-	yes	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
2C1Ah (1)	ru26	internal temperature PU 1	V	-	yes	INT16	-32767	32767	0	°C	1	10	0	ro	yes	no	no

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2C1Ah (2)	ru26	internal temperature PU 2	V	-	yes	INT16	-32767	32767	0	°C	1	10	0	ro	yes	no	no
2C1Ah (3)	ru26	internal temperature PU 3	V	-	yes	INT16	-32767	32767	0	°C	1	10	0	ro	yes	no	no
2C1Ah (4)	ru26	minimal distance to OHI	V	-	yes	INT16	-32767	32767	0	°C	1	10	0	ro	yes	no	no
2C1Ah (5)	ru26	internal temperature CB	V	-	yes	INT16	-32767	32767	0	°C	1	10	0	ro	yes	no	no
2C1Bh (0)	ru27	OL2 counter	V	-	yes	UINT16	0	1000	0	%	1	10	0	ro	yes	no	no
2C1Ch (0)	ru28	motor temperature	V	-	yes	INT16	-32767	32767	0	°C	1	10	0	ro	yes	no	no
2C1Dh (0)	ru29	OL counter	V	-	yes	UINT16	0	1000	0	%	1	10	0	ro	yes	no	no
2C1Eh (0)	ru30	internal communication state	V	-	yes	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2C20h (0)	ru32	motor prot. counter	V	-	yes	UINT16	0	1000	0	%	1	10	0	ro	yes	no	no
2C21h (0)	ru33	position actual value	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
2C22h (0)	ru34	act. torque lim. mot for	V	-	yes	INT16	0	10000	0	%	1	10	0	ro	yes	no	no
2C23h (0)	ru35	act. torque lim. mot rev	V	-	yes	INT16	0	10000	0	%	1	10	0	ro	yes	no	no
2C24h (0)	ru36	act. torque lim. gen for	V	-	yes	INT16	0	10000	0	%	1	10	0	ro	yes	no	no
2C25h (0)	ru37	act. torque lim. gen rev	V	-	yes	INT16	0	10000	0	%	1	10	0	ro	yes	no	no
2C26h (0)	ru38	position value before gear factor	S	-	yes	UINT8	3	3	3	-	1	1	0	ro	yes	no	no
2C26h (1)	ru38	gearless position value	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2C26h (2)	ru38	gearless revolutions	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2C26h (3)	ru38	gearless position low	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2C29h (0)	ru41	dig. input terminal state	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2C2Ah (0)	ru42	AN1 value display	V	-	yes	INT16	-1000	1000	0	%	100	4096	0	ro	yes	no	no
2C2Bh (0)	ru43	AN1 after gain display	V	-	yes	INT16	-1000	1000	0	%	100	4096	0	ro	yes	no	no
2C2Ch (0)	ru44	AN2 value display	V	-	yes	INT16	-1000	1000	0	%	100	4096	0	ro	yes	no	no
2C2Dh (0)	ru45	AN2 after gain display	V	-	yes	INT16	-1000	1000	0	%	100	4096	0	ro	yes	no	no
2C2Eh (0)	ru46	AN3 value display	V	-	yes	INT16	-1000	1000	0	%	100	4096	0	ro	yes	no	no
2C2Fh (0)	ru47	AN3 after gain display	V	-	yes	INT16	-1000	1000	0	%	100	4096	0	ro	yes	no	no
2C30h (0)	ru48	analog REF display	V	-	yes	INT16	-1000	1000	0	%	100	4096	0	ro	yes	no	no
2C31h (0)	ru49	analog AUX display	V	-	yes	INT16	-1000	1000	0	%	100	4096	0	ro	yes	no	no
2C32h (0)	ru50	act. torque lim. pos.	V	-	yes	INT16	0	10000	0	%	1	10	0	ro	yes	no	no
2C33h (0)	ru51	act. torque lim. neg.	V	-	yes	INT16	0	10000	0	%	1	10	0	ro	yes	no	no
2C34h (0)	ru52	system date	V	-	yes	UINT32	0	-1	0	-	1	1	0	rw	yes	no	no
2C35h (0)	ru53	system time	V	-	yes	UINT32	0	-1	0	-	1	1	0	rw	yes	no	no
2C36h (0)	ru54	PID xd	V	-	yes	INT16	-1000	1000	0	%	100	4096	0	ro	yes	no	no
2C37h (0)	ru55	PID output value	V	-	yes	INT16	-1000	1000	0	%	100	4096	0	ro	yes	no	no
2C39h (0)	ru57	eff. motor load	V	-	yes	UINT16	0	65535	0	%	1	10	0	ro	yes	no	no
2C3Ah (0)	ru58	actual index	V	-	yes	UINT8	0	31	0	-	1	1	0	ro	yes	no	no
2C3Fh (0)	ru63	Uic voltage at Power On	V	-	yes	UINT16	0	65535	0	V	1	10	0	ro	yes	no	no
2C48h (0)	ru72	act. switch. freq	V	-	yes	UINT16	0	3200	0	kH z	1	100	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2C49h (0)	ru73	Imot/ImaxOI2	V	-	yes	INT16	0	8000	0	%	1	10	0	ro	yes	no	no
2C4Ah (0)	ru74	unfiltered flags state	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2C4Bh (0)	ru75	global drive state	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2C4Ch (0)	ru76	drive state	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2C4Eh (0)	ru78	Analog Out display	V	-	yes	INT32	0	32768	0	%	25	8192	0	ro	yes	no	no
2C50h (0)	ru80	relative load	V	-	yes	UINT16	0	10000	0	%	1	10	0	ro	yes	no	no
2C51h (0)	ru81	actual torque	V	-	yes	INT32	0	500000000	0	Nm	1	1000	0	ro	yes	no	no
2C52h (0)	ru82	actual power/energy	S	-	yes	UINT8	7	7	7	-	1	1	0	ro	yes	no	no
2C52h (1)	ru82	mechanical power	V	-	yes	INT32	-2147483647	2147483647	0	kW	1	1000	0	ro	yes	no	no
2C52h (2)	ru82	electrical output power	V	-	yes	INT32	-2147483647	2147483647	0	kW	1	1000	0	ro	yes	no	no
2C52h (3)	ru82	electrical power loss	V	-	yes	INT32	-2147483647	2147483647	0	kW	1	1000	0	ro	yes	no	no
2C52h (5)	ru82	out. energy mot. volatile	V	-	yes	UINT32	0	-1	0	kW h	1	1000	0	rw	yes	no	no
2C52h (7)	ru82	out. energy gen. volatile	V	-	yes	UINT32	0	-1	0	kW h	1	1000	0	rw	yes	no	no
2C53h (0)	ru83	diff. speed	A	4	yes	INT32	-2147483648	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2C54h (0)	ru84	ref value display	V	-	yes	INT32	-2147483647	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2C55h (0)	ru85	actual speed PT1	V	-	yes	INT32	-2147483647	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2C56h (0)	ru86	standard set speed	V	-	yes	INT32	-2147483647	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2C57h (0)	ru87	ramp out value	V	-	yes	INT32	-2147483647	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
2C58h (0)	ru88	complete flags state	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2C59h (0)	ru89	timer value	A	2	yes	UINT32	0	8388607	0	-	1	1	0	ro	yes	no	no
4C21h (0)	ru33	position actual value B	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
4C26h (0)	ru38	position value before gear factor B	S	-	yes	UINT8	3	3	3	-	1	1	0	ro	yes	no	no
4C26h (1)	ru38	gearless position value B	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
4C26h (2)	ru38	gearless revolutions B	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
4C26h (3)	ru38	gearless position low B	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2E00h (0)	ps00	position control mode	V	-	yes	UINT16	0	2	1	-	1	1	0	rw	yes	no	no
2E01h (0)	ps01	KP position controller	V	-	yes	UINT16	0	65000	100	1/ min	1	10	0	rw	yes	no	no
2E02h (0)	ps02	KP zero speed position ctrl	V	-	yes	UINT16	0	65000	0	1/ min	1	10	0	rw	yes	no	no
2E03h (0)	ps03	KP speed limit reduction %	V	-	no	UINT16	0	1000	0	%	1	10	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2E04h (0)	ps04	speed limit for ps03	V	-	yes	INT32	0	128000	3000	1/ min	1	1	0	rw	yes	no	no
2E0Ah (0)	ps10	position ctrl limit %	V	-	no	UINT16	0	10000	100	%	1	10	0	rw	yes	no	no
2E0Ch (0)	ps12	(CiA 0x6065) following error window	V	-	no	UINT32	0	2147483647	5000	-	1	1	0	rw	yes	no	no
2E0Dh (0)	ps13	(CiA 0x6066) following error time out	V	-	yes	UINT16	0	65535	0	ms	1	1	0	rw	yes	no	no
2E0Eh (0)	ps14	(CiA 0x6067) position window	V	-	no	UINT32	0	2147483647	5000	-	1	1	0	rw	yes	no	no
2E0Fh (0)	ps15	(CiA 0x6068) position window time	V	-	yes	UINT16	0	65535	0	ms	1	1	0	rw	yes	no	no
2E10h (0)	ps16	(CiA 0x607D [2]) max software position limit	V	-	yes	INT32	-2147483648	2147483647	2147483647	-	1	1	0	rw	yes	no	no
2E11h (0)	ps17	(CiA 0x607D [1]) min software position limit	V	-	yes	INT32	-2147483648	2147483647	-2147483648	-	1	1	0	rw	yes	no	no
2E12h (0)	ps18	(CiA 0x607B [1]) min position range limit	V	-	yes	INT32	-2147483648	2147483647	-2147483648	-	1	1	0	rw	yes	no	no
2E13h (0)	ps19	(CiA 0x607B [2]) max position range limit	V	-	yes	INT32	-2147483648	2147483647	2147483647	-	1	1	0	rw	yes	no	no
2E14h (0)	ps20	range ref window	V	-	yes	INT32	0	2147483647	0	-	1	1	0	rw	yes	no	no
2E15h (0)	ps21	ref error count	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2E16h (0)	ps22	posi setup state	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2E17h (0)	ps23	position range periods	V	-	no	UINT16	0	32767	0	-	1	1	0	rw	yes	no	no
2E18h (0)	ps24	range correction	V	-	no	UINT16	0	2048	0	-	1	1	0	rw	yes	no	no
2E1Eh (0)	ps30	(CiA 0x6081) profile velocity	V	-	yes	UINT32	0	128000	0	1/ min	1	1	0	rw	yes	no	no
2E1Fh (0)	ps31	(CiA 0x6082) end velocity	V	-	yes	UINT32	0	128000	0	1/ min	1	1	0	rw	yes	no	no
2E20h (0)	ps32	(CiA 0x607F) max profile velocity	V	-	yes	UINT32	0	128000	1000	1/ min	1	1	0	rw	yes	no	no
2E21h (0)	ps33	absolute positioning	V	-	yes	UINT8	0	6	0	-	1	1	0	rw	yes	no	no
2E23h (0)	ps35	feed forward speed num	V	-	yes	INT32	-1073741824	1073741823	1000	-	1	1	0	rw	yes	no	no
2E24h (0)	ps36	feed forward speed denom	V	-	yes	INT32	1	1073741823	1000	-	1	1	0	rw	yes	no	no
2E26h (0)	ps38	positioning module	V	-	yes	UINT8	0	15	0	-	1	1	0	rw	yes	no	no
2E27h (0)	ps39	index position	A	32	yes	INT32	-2147483648	2147483647	0	-	1	1	0	rw	yes	no	no
2E28h (0)	ps40	index speed	A	32	yes	INT32	-128000	128000	0	1/ min	1	1	0	rw	yes	no	no
2E29h (0)	ps41	index end speed	A	32	yes	INT32	-128000	128000	0	1/ min	1	1	0	rw	yes	no	no
2E2Ah (0)	ps42	next index	A	32	yes	INT8	-1	31	-1	-	1	1	0	rw	yes	no	no
2E2Bh (0)	ps43	index mode	A	32	yes	UINT8	0	7	0	-	1	1	0	rw	yes	no	no
2E2Ch (0)	ps44	immediately input	V	-	yes	UINT16	0	16383	0	-	1	1	0	rw	yes	no	no
2E2Dh (0)	ps45	immediately index	V	-	yes	INT8	0	31	0	-	1	1	0	rw	yes	no	no
2E2Eh (0)	ps46	start index	V	-	yes	INT8	-1	31	-1	-	1	1	0	rw	yes	no	no
2E2Fh (0)	ps47	active index	V	-	yes	INT8	-1	31	-1	-	1	1	0	ro	yes	no	no
2E30h (0)	ps48	ps acceleration for [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2E31h (0)	ps49	ps deceleration for [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2E32h (0)	ps50	ps acceleration rev [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
2E33h (0)	ps51	ps deceleration rev [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
2E34h (0)	ps52	ps for acc jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2E35h (0)	ps53	ps for acc jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2E36h (0)	ps54	ps for dec jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2E37h (0)	ps55	ps for dec jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2E38h (0)	ps56	ps rev acc jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2E39h (0)	ps57	ps rev acc jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2E3Ah (0)	ps58	ps rev dec jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2E3Bh (0)	ps59	ps rev dec jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
2E3Ch (0)	ps60	ps ramp mode	V	-	yes	UINT8	0	255	8	-	1	1	0	rw	yes	no	no
2F1Ah (0)	sb26	power unit control word	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
2F1Bh (0)	sb27	power unit status word	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
2F1Bh (1)	sb27	power unit CPU1 status word	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2F1Bh (2)	sb27	power unit CPU2 status word	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
2F1Ch (0)	sb28	safety mod. control word	V	-	no	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
2F1Dh (0)	sb29	safety mod. status word	V	-	yes	UINT32	0	255	0	-	1	1	0	ro	yes	no	no
2F20h (0)	sb32	internal communication acknowledge	A	3	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2F21h (0)	sb33	power unit int. comm. error counter	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
2F21h (1)	sb33	power unit int. comm. CPU1 error counter	V	-	no	UINT16	0	0	0	-	1	1	0	rw	yes	no	no
2F21h (2)	sb33	power unit int. comm. CPU2 error counter	V	-	no	UINT16	0	0	0	-	1	1	0	rw	yes	no	no
2F22h (0)	sb34	safety mod. int. comm. error counter	V	-	no	UINT16	0	0	0	-	1	1	0	rw	yes	no	no
2F23h (0)	sb35	enc. interf. int. comm. error counter	V	-	no	UINT16	0	0	0	-	1	1	0	rw	yes	no	no
2F24h (0)	sb36	enc. type A err. address	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2F25h (0)	sb37	enc. type A err. acknowledge	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2F26h (0)	sb38	enc. type B err. address	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2F27h (0)	sb39	enc. type B err. acknowledge	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
2F28h (0)	sb40	safety mod. status word	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
2F29h (0)	sb41	power unit CPU2 software version	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2F2Ah (0)	sb42	power unit CPU2 software date	V	-	no	UINT32	0	2147483647	0	-	1	1	0	ro	yes	no	no
2F50h (0)	sb80	data long array	A	8	no	UINT32	0	-1	0	-	1	1	0	rw	yes	no	no
2F51h (0)	sb81	data block nr	V	-	no	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
2F52h (0)	sb82	data blockwrite ready	V	-	no	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
3001h (0)	ud01	password	V	-	yes	INT16	0	9999	0	-	1	1	0	rw	no	yes	no
3002h (0)	ud02	recipe options	V	-	yes	UINT32	0	31	0	-	1	1	0	rw	yes	no	no
3003h (0)	ud03	recipe inputs	V	-	yes	UINT16	0	16383	0	-	1	1	0	rw	yes	no	no
3004h (0)	ud04	start recipe	V	-	yes	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
3007h (0)	ud07	recipe status	S	-	yes	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
3007h (1)	ud07	last successful recipe ID	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no



	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3007h (2)	ud07	download status	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
3007h (3)	ud07	info recipe ID	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
3007h (4)	ud07	actual line	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3007h (5)	ud07	error code	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
300Ah (0)	ud10	exception history date	A	16	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
300Bh (0)	ud11	exception history time	A	16	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
300Ch (0)	ud12	history exception state	A	16	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
300Dh (0)	ud13	history data 1	A	16	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
300Eh (0)	ud14	history data 2	A	16	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
300Fh (0)	ud15	history data 3	A	16	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3010h (0)	ud16	history data 4	A	16	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3011h (0)	ud17	history data 1 selector	V	-	no	UINT32	0	16777215	8292	-	1	1	0	rw	yes	no	no
3012h (0)	ud18	history data 2 selector	V	-	no	UINT32	0	16777215	11280	-	1	1	0	rw	yes	no	no
3013h (0)	ud19	history data 3 selector	V	-	no	UINT32	0	16777215	11281	-	1	1	0	rw	yes	no	no
3014h (0)	ud20	history data 4 selector	V	-	no	UINT32	0	16777215	76825	-	1	1	0	rw	yes	no	no
301Eh (0)	ud30	OL2 current limits	S	-	yes	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
301Eh (1)	ud30	Icont offset	V	-	yes	UINT32	0	10000	0	A	1	100	0	ro	yes	no	no
301Eh (2)	ud30	Icont derating	V	-	yes	UINT32	0	10000	0	A	1	100	0	ro	yes	no	no
301Eh (3)	ud30	Icont act switching freq	V	-	yes	UINT32	0	10000	0	A	1	100	0	ro	yes	no	no
301Eh (4)	ud30	Imax OL2	V	-	yes	UINT32	0	10000	0	A	1	100	0	ro	yes	no	no
301Eh (5)	ud30	Imax control	V	-	yes	UINT32	0	10000	0	A	1	100	0	ro	yes	no	no
301Fh (0)	ud31	OL2 diagnostic counter	S	-	no	UINT8	3	3	3	-	1	1	0	ro	yes	no	no
3028h (0)	ud40	vl velocity limit options	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3029h (0)	ud41	maximum speed	S	-	no	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
3029h (1)	ud41	max speed mot for	V	-	no	INT32	0	32000	2000	1/ min	1	1	0	rw	yes	no	no
3029h (2)	ud41	max speed mot rev	V	-	no	INT32	0	32000	2000	1/ min	1	1	0	rw	yes	no	no
3029h (3)	ud41	max speed gen for	V	-	no	INT32	0	32000	2000	1/ min	1	1	0	rw	yes	no	no
3029h (4)	ud41	max speed gen rev	V	-	no	INT32	0	32000	2000	1/ min	1	1	0	rw	yes	no	no
302Ah (0)	ud42	lower limit level	S	-	no	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
302Ah (1)	ud42	lower limit level mot for	V	-	no	INT32	0	32000	1000	1/ min	1	1	0	rw	yes	no	no
302Ah (2)	ud42	lower limit level mot rev	V	-	no	INT32	0	32000	1000	1/ min	1	1	0	rw	yes	no	no
302Ah (3)	ud42	lower limit level gen for	V	-	no	INT32	0	32000	1000	1/ min	1	1	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
302Ah (4)	ud42	lower limit level gen rev	V	-	no	INT32	0	32000	1000	1/ min	1	1	0	rw	yes	no	no
302Bh (0)	ud43	average times	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
302Bh (1)	ud43	settle time	V	-	no	UINT16	0	8000	100	s	1	1000	0	rw	yes	no	no
302Bh (2)	ud43	average time dyn limit calculation	V	-	no	UINT16	0	8000	1000	s	1	1000	0	rw	yes	no	no
302Ch (0)	ud44	maximal power	S	-	no	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
302Ch (1)	ud44	max power mot for	V	-	no	UINT32	0	1000000	4000	kW	1	1000	0	rw	yes	no	no
302Ch (2)	ud44	max power mot rev	V	-	no	UINT32	0	1000000	4000	kW	1	1000	0	rw	yes	no	no
302Ch (3)	ud44	max power gen for	V	-	no	UINT32	0	1000000	4000	kW	1	1000	0	rw	yes	no	no
302Ch (4)	ud44	max power gen rev	V	-	no	UINT32	0	1000000	4000	kW	1	1000	0	rw	yes	no	no
302Dh (0)	ud45	power hysteresis	V	-	no	INT16	1000	2000	1050	-	1	1000	0	rw	yes	no	no
302Eh (0)	ud46	slow torque PT1	V	-	no	UINT32	0	500000	20000	ms	1	1000	0	rw	yes	no	no
302Fh (0)	ud47	speed hysteresis for ramp out	V	-	no	INT32	0	262144000	40960	1/ min	1	8192	0	rw	yes	no	no
3030h (0)	ud48	speed level for cont calc	V	-	no	INT32	0	262144000	40960	1/ min	1	8192	0	rw	yes	no	no
3031h (0)	ud49	dyn vel limit state display	V	-	yes	INT16	0	17	0	-	1	1	0	ro	yes	no	no
3032h (0)	ud50	F5 compatibility objects	S	-	yes	UINT8	13	13	13	-	1	1	0	ro	yes	no	no
3032h (1)	ud50	option code	V	-	no	UINT16	0	255	0	-	1	1	0	rw	yes	no	no
3032h (2)	ud50	customer controlword 1	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3032h (3)	ud50	customer controlword 2	V	-	yes	UINT16	0	0	0	-	1	1	0	rw	yes	no	no
3032h (4)	ud50	customer statusword 1	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3032h (5)	ud50	customer statusword 2	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3032h (6)	ud50	percental set speed	V	-	yes	INT16	-16384	16384	0	%	100	16384	0	rw	yes	no	no
3032h (7)	ud50	actual speed	V	-	yes	INT16	-32768	32767	0	%	100	16384	0	ro	yes	no	no
3032h (8)	ud50	actual torque	V	-	yes	INT16	-32767	32767	0	Nm	1	1	0	ro	yes	no	no
3032h (9)	ud50	inverter temperature	V	-	yes	INT16	-32767	32767	0	°C	1	1	0	ro	yes	no	no
3032h (10)	ud50	motor temperature	V	-	yes	INT16	-32767	32767	0	°C	1	1	0	ro	yes	no	no
3032h (11)	ud50	error message	V	-	yes	UINT16	0	200	0	-	1	1	0	ro	yes	no	no
3032h (12)	ud50	relative load	V	-	yes	UINT16	0	1000	0	%	1	1	0	ro	yes	no	no
3032h (13)	ud50	reference speed	V	-	yes	UINT16	10	65535	3000	1/ min	1	1	0	rw	yes	no	no
3035h (0)	ud53	liquid cooling ctrl	S	-	yes	UINT8	11	11	11	-	1	1	0	ro	yes	no	no
3035h (1)	ud53	source select	V	-	yes	UINT16	0	63	2	-	1	1	0	rw	yes	no	no
3035h (2)	ud53	ref value	V	-	yes	UINT16	0	1000	500	°C	1	10	0	rw	yes	no	no
3035h (3)	ud53	Kp [%PWM load per 1K]	V	-	no	UINT32	0	100000	5000	-	1	1000	0	rw	yes	no	no
3035h (4)	ud53	Tn	V	-	yes	UINT32	0	500000000	300000000	ms	1	1000	0	rw	yes	no	no
3035h (5)	ud53	PI ctrl out	V	-	yes	INT16	0	10000	0	%	1	100	0	ro	yes	no	no
3035h (6)	ud53	manual setting	V	-	yes	UINT16	0	1000	0	%	1	10	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3035h (7)	ud53	PWM period	V	-	yes	UINT16	40	200	120	s	1	10	0	rw	yes	no	no
3035h (8)	ud53	PWM start value	V	-	yes	UINT8	0	100	0	%	1	1	0	rw	yes	no	no
3035h (9)	ud53	PWM end value	V	-	yes	UINT8	0	100	100	%	1	1	0	rw	yes	no	no
3035h (10)	ud53	minimal Pulse length	V	-	yes	UINT16	0	500	1	s	1	100	0	rw	yes	no	no
3035h (11)	ud53	PWM actual load	V	-	yes	INT16	0	10000	0	%	1	100	0	ro	yes	no	no
3036h (0)	ud54	heatsink cooling PWM out state	V	-	no	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
3037h (0)	ud55	motor cooling ctrl	S	-	yes	UINT8	11	11	11	-	1	1	0	ro	yes	no	no
3037h (1)	ud55	source select	V	-	yes	UINT16	0	33	0	-	1	1	0	rw	yes	no	no
3037h (2)	ud55	ref value	V	-	yes	UINT16	0	2000	1000	°C	1	10	0	rw	yes	no	no
3037h (3)	ud55	Kp [%PWM load per 1K]	V	-	no	UINT32	0	100000	5000	-	1	1000	0	rw	yes	no	no
3037h (4)	ud55	Tn	V	-	yes	UINT32	0	500000000	300000000	ms	1	1000	0	rw	yes	no	no
3037h (5)	ud55	PI ctrl out	V	-	yes	INT16	0	10000	0	%	1	100	0	ro	yes	no	no
3037h (6)	ud55	manual setting	V	-	yes	UINT16	0	1000	0	%	1	10	0	rw	yes	no	no
3037h (7)	ud55	PWM period	V	-	yes	UINT16	40	1200	600	s	1	10	0	rw	yes	no	no
3037h (8)	ud55	PWM start value	V	-	yes	UINT8	0	100	0	%	1	1	0	rw	yes	no	no
3037h (9)	ud55	PWM end value	V	-	yes	UINT8	0	100	100	%	1	1	0	rw	yes	no	no
3037h (10)	ud55	minimal Pulse length	V	-	yes	UINT16	0	600	300	s	1	100	0	rw	yes	no	no
3037h (11)	ud55	PWM actual load	V	-	yes	INT16	0	10000	0	%	1	100	0	ro	yes	no	no
3038h (0)	ud56	motor cooling PWM out state	V	-	no	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
3100h (0)	hm00	(CiA 0x607C) home offset	V	-	yes	INT32	-2147483648	2147483647	0	-	1	1	0	rw	yes	no	no
3101h (0)	hm01	(CiA 0x6098) homing method	V	-	yes	INT8	1	37	37	-	1	1	0	rw	yes	no	no
3102h (0)	hm02	(CiA 0x6099 [1]) speed during search for switch	V	-	yes	UINT32	0	2147483647	800	1/ min	1	8	0	rw	yes	no	no
3103h (0)	hm03	(CiA 0x6099 [2]) speed during search for zero	V	-	yes	UINT32	0	2147483647	400	1/ min	1	8	0	rw	yes	no	no
3104h (0)	hm04	(CiA 0x609A) homing acceleration	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
3105h (0)	hm05	digital inputs	V	-	yes	UINT32	0	65535	0	-	1	1	0	ro	yes	no	no
3106h (0)	hm06	negative limit switch source	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3107h (0)	hm07	positive limit switch source	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3108h (0)	hm08	home switch source	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3109h (0)	hm09	position offset	V	-	yes	INT32	-2147483648	2147483647	0	-	1	1	0	rw	yes	no	no
310Ah (0)	hm10	(CiA 0x60B8) touch probe function	V	-	yes	UINT16	0	59	0	-	1	1	0	rw	yes	no	no
310Bh (0)	hm11	(CiA 0x60B9) touch probe status	V	-	yes	UINT16	0	255	0	-	1	1	0	ro	yes	no	no
310Ch (0)	hm12	(CiA 0x60BA) touch probe 1 positive edge	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
310Dh (0)	hm13	(CiA 0x60BB) touch probe 1 negative edge	V	-	yes	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
310Eh (0)	hm14	home mode source	V	-	yes	UINT16	0	16383	0	-	1	1	0	rw	yes	no	no
310Fh (0)	hm15	excluded modes of operation for limit switch	V	-	yes	UINT16	0	32767	4	-	1	1	0	rw	yes	no	no
3110h (0)	hm16	excluded modes of operation for sw limits	V	-	yes	UINT16	0	32767	4	-	1	1	0	rw	yes	no	no
3111h (0)	hm17	limit switch handling	V	-	yes	UINT8	0	255	8	-	1	1	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3112h (0)	hm18	limit switch speed lvl [%Nn]	V	-	yes	UINT16	0	2000	0	%	1	10	0	rw	yes	no	no
3113h (0)	hm19	maximal forward limit switch override	V	-	yes	UINT32	0	2147483647	0	-	1	1	0	rw	yes	no	no
3114h (0)	hm20	maximal reverse limit switch override	V	-	yes	UINT32	0	2147483647	0	-	1	1	0	rw	yes	no	no
3115h (0)	hm21	zero point distance	V	-	yes	INT32	-2147483648	2147483647	0	-	1	1	0	ro	yes	no	no
3116h (0)	hm22	zero point offset	V	-	yes	INT16	-32768	32767	0	-	1	1	0	rw	yes	no	no
3117h (0)	hm23	homing options	V	-	yes	UINT16	0	1	0	-	1	1	0	rw	yes	no	no
3200h (0)	di00	dig. input logic	V	-	yes	UINT16	0	4095	0	-	1	1	0	rw	yes	no	no
3201h (0)	di01	dig. input src. sel.	V	-	no	UINT32	0	16777215	0	-	1	1	0	rw	yes	no	no
3202h (0)	di02	dig. input ext. src.	V	-	yes	UINT16	0	4095	0	-	1	1	0	rw	yes	no	no
3204h (0)	di04	digital noise filter	V	-	yes	UINT16	0	4000	0	ms	1	2	0	rw	yes	no	no
320Ah (0)	di10	RUN input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
320Bh (0)	di11	RST input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
320Ch (0)	di12	CA input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
320Dh (0)	di13	CA mask	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
320Eh (0)	di14	CB input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
320Fh (0)	di15	CB mask	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3210h (0)	di16	forward input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3211h (0)	di17	reverse input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3212h (0)	di18	vl zero speed input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3213h (0)	di19	start posi/homing input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3214h (0)	di20	invert input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3215h (0)	di21	index input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3216h (0)	di22	index noise filter	V	-	yes	UINT16	0	4000	0	ms	1	2	0	rw	yes	no	no
3217h (0)	di23	halt input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3218h (0)	di24	strobe input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3219h (0)	di25	index strobe dependency	V	-	yes	UINT16	0	2	0	-	1	1	0	rw	yes	no	no
321Ch (0)	di28	controlword input setting	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
321Ch (1)	di28	cw input 1	V	-	no	UINT16	0	15	0	-	1	1	0	rw	yes	no	no
321Ch (2)	di28	cw input 2	V	-	no	UINT16	0	15	0	-	1	1	0	rw	yes	no	no
321Dh (0)	di29	digital input controlword	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
321Eh (0)	di30	I1 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
321Eh (1)	di30	I1 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
321Eh (2)	di30	I1 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
321Fh (0)	di31	I2 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
321Fh (1)	di31	I2 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
321Fh (2)	di31	I2 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3220h (0)	di32	I3 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3220h (1)	di32	I3 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no

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3220h (2)	di32	I3 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3221h (0)	di33	I4 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3221h (1)	di33	I4 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3221h (2)	di33	I4 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3222h (0)	di34	I5 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3222h (1)	di34	I5 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3222h (2)	di34	I5 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3223h (0)	di35	I6 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3223h (1)	di35	I6 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3223h (2)	di35	I6 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3224h (0)	di36	I7 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3224h (1)	di36	I7 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3224h (2)	di36	I7 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3225h (0)	di37	I8 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3225h (1)	di37	I8 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3225h (2)	di37	I8 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3226h (0)	di38	IA input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3226h (1)	di38	IA input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3226h (2)	di38	IA input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3227h (0)	di39	IB input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3227h (1)	di39	IB input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3227h (2)	di39	IB input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3228h (0)	di40	IC input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3228h (1)	di40	IC input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3228h (2)	di40	IC input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3229h (0)	di41	ID input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
3229h (1)	di41	ID input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3229h (2)	di41	ID input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
322Ah (0)	di42	STO1 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
322Ah (1)	di42	STO1 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
322Ah (2)	di42	STO1 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
322Bh (0)	di43	STO2 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
322Bh (1)	di43	STO2 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
322Bh (2)	di43	STO2 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
322Ch (0)	di44	CW 1 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
322Ch (1)	di44	CW 1 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
322Ch (2)	di44	CW 1 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
322Dh (0)	di45	CW 2 input function	S	-	yes	UINT8	2	2	2	-	1	1	0	ro	yes	no	no

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322Dh (1)	di45	CW 2 input function low	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
322Dh (2)	di45	CW 2 input function high	V	-	yes	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3304h (0)	an04	AN1 zero point hysteresis	V	-	yes	UINT16	0	1000	82	%	100	4096	0	rw	yes	no	no
3305h (0)	an05	AN1 gain	V	-	yes	INT16	-20000	20000	1000	-	1	1000	0	rw	yes	no	no
3306h (0)	an06	AN1 offset X	V	-	yes	INT16	-4096	4096	0	%	100	4096	0	rw	yes	no	no
3307h (0)	an07	AN1 offset Y	V	-	yes	INT16	-4096	4096	0	%	100	4096	0	rw	yes	no	no
3308h (0)	an08	AN1 neg limit	V	-	yes	INT16	-16384	16384	-16384	%	100	4096	0	rw	yes	no	no
3309h (0)	an09	AN1 pos limit	V	-	yes	INT16	-16384	16384	16384	%	100	4096	0	rw	yes	no	no
330Ah (0)	an10	AN2 interface selection	V	-	yes	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
330Bh (0)	an11	AN2 mean filter	V	-	yes	UINT8	0	15	4	ms	1	4	0	rw	yes	no	no
330Ch (0)	an12	AN2 PT1 filter	V	-	yes	UINT16	0	65535	1000	ms	1	1000	0	rw	yes	no	no
330Eh (0)	an14	AN2 zero point hysteresis	V	-	yes	UINT16	0	1000	82	%	100	4096	0	rw	yes	no	no
330Fh (0)	an15	AN2 gain	V	-	yes	INT16	-20000	20000	1000	-	1	1000	0	rw	yes	no	no
3310h (0)	an16	AN2 offset X	V	-	yes	INT16	-4096	4096	0	%	100	4096	0	rw	yes	no	no
3311h (0)	an17	AN2 offset Y	V	-	yes	INT16	-4096	4096	0	%	100	4096	0	rw	yes	no	no
3312h (0)	an18	AN2 neg limit	V	-	yes	INT16	-16384	16384	-16384	%	100	4096	0	rw	yes	no	no
3313h (0)	an19	AN2 pos limit	V	-	yes	INT16	-16384	16384	16384	%	100	4096	0	rw	yes	no	no
331Eh (0)	an30	REF and AUX function	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
331Fh (0)	an31	REF selector	V	-	no	UINT32	0	16777215	0	-	1	1	0	rw	yes	no	no
3320h (0)	an32	REF norm fact	V	-	yes	INT32	-2147483647	2147483647	0	-	1	10000	0	rw	yes	no	no
3321h (0)	an33	REF norm status	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
3322h (0)	an34	AUX selector	V	-	no	UINT32	0	16777215	0	-	1	1	0	rw	yes	no	no
3323h (0)	an35	AUX norm fact	V	-	yes	INT32	-2147483647	2147483647	0	-	1	10000	0	rw	yes	no	no
3324h (0)	an36	AUX norm status	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
3325h (0)	an37	ANOUT1 function	V	-	no	UINT8	0	18	0	-	1	1	0	rw	yes	no	no
3326h (0)	an38	ANOUT1 value	V	-	yes	UINT16	0	1000	0	%	1	10	0	rw	yes	no	no
3327h (0)	an39	ANOUT1 gain	V	-	yes	INT16	-20480	20480	1024	-	1	1024	0	rw	yes	no	no
3328h (0)	an40	ANOUT1 offset X	V	-	yes	INT16	-32767	32767	0	%	100	32767	0	rw	yes	no	no
3329h (0)	an41	ANOUT1 offset Y	V	-	yes	INT16	-32767	32767	0	%	100	32767	0	rw	yes	no	no
332Ah (0)	an42	ANOUT2 selector	V	-	no	UINT32	0	16777215	0	-	1	1	0	rw	yes	no	no
332Bh (0)	an43	ANOUT2 norm fact	V	-	yes	INT32	-2147483647	2147483647	0	-	1	100000000	0	rw	yes	no	no
332Ch (0)	an44	ANOUT2 display	V	-	yes	INT32	-2147483648	2147483647	0	-	1	1	0	ro	yes	no	no
332Dh (0)	an45	ANOUT3 selector	V	-	no	UINT32	0	16777215	0	-	1	1	0	rw	yes	no	no
332Eh (0)	an46	ANOUT3 norm fact	V	-	yes	INT32	-2147483647	2147483647	0	-	1	100000000	0	rw	yes	no	no
332Fh (0)	an47	ANOUT3 display	V	-	yes	INT32	-2147483648	2147483647	0	-	1	1	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
333Ch (0)	an60	PID Kp	V	-	yes	INT32	0	2147483647	10000	-	1	10000	0	rw	yes	no	no
333Dh (0)	an61	PID Tn	V	-	yes	INT32	0	2147483647	33000	ms	1	1000	0	rw	yes	no	no
333Eh (0)	an62	PID Kd	V	-	yes	INT32	0	2147483647	0	-	1	10000	0	rw	yes	no	no
333Fh (0)	an63	PID positive limit	V	-	yes	INT16	0	16384	4096	%	100	4096	0	rw	yes	no	no
3340h (0)	an64	PID negative limit	V	-	yes	INT16	-16384	0	-4096	%	100	4096	0	rw	yes	no	no
3341h (0)	an65	PID reference offset	V	-	yes	INT16	-16384	16384	0	%	100	4096	0	rw	yes	no	no
3342h (0)	an66	PID reference source	V	-	yes	UINT8	0	5	0	%	1	1	0	rw	yes	no	no
3343h (0)	an67	PID actual value setting	V	-	yes	INT16	-16384	16384	0	%	100	4096	0	rw	yes	no	no
3344h (0)	an68	PID actual value source	V	-	yes	UINT8	0	12	0	%	1	1	0	rw	yes	no	no
3345h (0)	an69	PID internal reset condition	V	-	yes	UINT32	0	268435455	262111	-	1	1	0	rw	yes	no	no
3346h (0)	an70	PID reset integral term input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3347h (0)	an71	PID deactivation input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3348h (0)	an72	PID preload value	V	-	yes	INT16	-16384	16384	0	%	100	4096	0	rw	yes	no	no
3349h (0)	an73	PID fade out input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
334Ah (0)	an74	PID fade out time	V	-	yes	INT32	0	2147483647	0	s	1	1000	0	rw	yes	no	no
3300h (0)	an00	AN1 interface selection	V	-	yes	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
3301h (0)	an01	AN1 mean filter	V	-	yes	UINT8	0	15	4	ms	1	4	0	rw	yes	no	no
3302h (0)	an02	AN1 PT1 filter	V	-	yes	UINT16	0	65535	1000	ms	1	1000	0	rw	yes	no	no
3500h (0)	is00	Uic mode	V	-	yes	UINT16	0	15	2	-	1	1	0	rw	yes	no	no
3501h (0)	is01	Uic PT1-time	V	-	yes	UINT16	63	60000	5000	ms	1	1000	0	rw	yes	no	no
3604h (0)	dd04	cvv waiting time	V	-	yes	UINT16	0	16000	3000	ms	1	1	0	rw	yes	no	no
3607h (0)	dd07	rotor det. 1.order level	V	-	yes	UINT16	1	500	50	%	1	10	0	rw	yes	no	no
3608h (0)	dd08	rot. det. inf. (1.order)	V	-	yes	UINT16	0	1000	0	%	1	10	0	ro	yes	no	no
3609h (0)	dd09	rotor det. 2.order level	V	-	yes	UINT16	1	500	200	%	1	10	0	rw	yes	no	no
360Ah (0)	dd10	rot. det. inf. (2.order)	V	-	yes	UINT16	0	1000	0	%	1	10	0	ro	yes	no	no
3610h (0)	dd16	speed search mode	V	-	no	UINT16	0	5	0	-	1	1	0	rw	yes	no	no
3612h (0)	dd18	speed search current[In]	V	-	no	UINT16	0	1999	500	%	1	10	0	rw	yes	no	no
3615h (0)	dd21	hf injection mode	V	-	no	UINT16	0	1	0	-	1	1	0	rw	yes	no	no
3616h (0)	dd22	hf inj. frequency	V	-	no	UINT16	5	20	10	kH Z	1	10	0	rw	yes	no	no
3617h (0)	dd23	hf inj. optimisation factor	V	-	no	UINT16	19	100	20	-	1	10	0	rw	yes	no	no
3618h (0)	dd24	hf inj. ampl. factor	V	-	no	UINT16	250	1999	1000	%	1	10	0	rw	yes	no	no
3619h (0)	dd25	hf inj. speed ctrl red. factor	V	-	no	UINT16	100	1000	1000	%	1	10	0	rw	yes	no	no
361Ah (0)	dd26	hf inj. scan time	V	-	no	INT16	-1	7	-1	-	1	1	0	rw	yes	no	no
361Bh (0)	dd27	hf inj. angle precontrol mode	V	-	no	UINT16	0	1	0	-	1	1	0	rw	yes	no	no
361Ch (0)	dd28	hf inj. angle prec. factor [° @ InMot]	V	-	no	INT16	-1800	1800	0	-	1	10	0	rw	yes	no	no
361Dh (0)	dd29	hf inj. dev. time	V	-	no	UINT32	0	64000	0	ms	1	1000	0	rw	yes	no	no
361Eh (0)	dd30	hf inj. diff. rho current res. [°]	V	-	yes	INT16	-32768	32767	0	-	1	100	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3700h (0)	fc00	Umax regulation mode	V	-	no	UINT16	0	18	1	-	1	1	0	rw	yes	no	no
3701h (0)	fc01	KP Umax [%Irated/%U]	V	-	no	UINT32	0	10000000	0	-	1	1000	0	rw	yes	no	no
3702h (0)	fc02	KI Umax [%Irated/%U s]	V	-	no	UINT32	0	24000000	200000	-	1	1000	0	rw	yes	no	no
3703h (0)	fc03	Umax reference	V	-	no	UINT16	0	1100	970	%	1	10	0	rw	yes	no	no
3704h (0)	fc04	max. modulation grade	V	-	yes	UINT16	0	1100	1000	%	1	10	0	rw	yes	no	no
3705h (0)	fc05	Umax reg. limit	V	-	no	UINT16	0	4000	1000	%	1	10	0	rw	yes	no	no
3710h (0)	fc16	ASM flux mode	V	-	no	UINT16	0	31	7	-	1	1	0	rw	yes	no	no
3711h (0)	fc17	ASM min. flux	V	-	no	UINT16	0	1000	950	%	1	10	0	rw	yes	no	no
3712h (0)	fc18	ASM KP flux [A/A]	V	-	no	UINT32	0	2147483647	0	-	1	1000	0	rw	yes	no	no
3713h (0)	fc19	ASM Tn flux	V	-	no	UINT32	0	2147483647	0	ms	1	1000	0	rw	yes	no	no
3714h (0)	fc20	ASM flux reg. limit	V	-	no	UINT16	0	1000	1000	%	1	10	0	rw	yes	no	no
3800h (0)	mo00	saturation mode	V	-	no	UINT16	0	2047	0	-	1	1	0	rw	yes	no	no
603Fh (0)	-	error code	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3801h (0)	mo01	saturation coefficients	S	-	no	UINT8	13	13	13	-	1	1	0	ro	yes	no	no
3801h (1)	mo01	Ld0 [H]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (2)	mo01	Ld1 [H]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (3)	mo01	Kd [1/A^2]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (4)	mo01	Kdq [1/A^2]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (5)	mo01	Lq0[H]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (6)	mo01	Lq1[H]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (7)	mo01	Kq [1/A^2]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (8)	mo01	Kqd [1/A^2]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (9)	mo01	Psi0 [Vs]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (10)	mo01	Psi1 [Vs]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (11)	mo01	Kpd [1/A^2]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (12)	mo01	Kpq [1/A^2]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3801h (13)	mo01	I0 [A]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (0)	mo02	saturation coef. dr-group	S	-	no	UINT8	13	13	13	-	1	1	0	ro	yes	no	no
3802h (1)	mo02	Ld0 [H]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (2)	mo02	Ld1 [H]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (3)	mo02	Kd [1/A^2]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (4)	mo02	Kdq [1/A^2]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (5)	mo02	Lq0[H]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (6)	mo02	Lq1[H]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (7)	mo02	Kq [1/A^2]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (8)	mo02	Kqd [1/A^2]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (9)	mo02	Psi0 [Vs]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (10)	mo02	Psi1 [Vs]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no



	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3802h (11)	mo02	Kpd [1/A <sup>2</sup> ]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (12)	mo02	Kpq [1/A <sup>2</sup> ]	V	-	no	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3802h (13)	mo02	I0[A]	V	-	no	UINT32	0	2139095039	0	-	1	1	0	rw	yes	no	no
3803h (0)	mo03	fill table sel. (mo04..mo10)	V	-	no	UINT16	0	1	0	-	1	1	0	rw	yes	no	no
3804h (0)	mo04	Isq opt. array (Iq=f(M))	A	16	no	UINT32	0	2139095039	0	A	1	1	0	rw	yes	no	no
3805h (0)	mo05	Isd opt. array (Id=f(M))	A	16	no	INT32	-8388609	2139095039	0	A	1	1	0	rw	yes	no	no
3806h (0)	mo06	MLim array (M=f(lmax))	A	16	no	UINT32	0	2139095039	0	Nm	1	1	0	rw	yes	no	no
3808h (0)	mo08	IqLim array (I=f(ldRef))	A	16	no	UINT32	0	2139095039	0	A	1	1	0	rw	yes	no	no
3809h (0)	mo09	Current Tab. x-axis [A]	V	-	no	UINT32	0	2139095039	0	A	1	1	0	rw	yes	no	no
380Ah (0)	mo10	Torque Tab. x-axis [Nm]	V	-	no	UINT32	0	2139095039	0	Nm	1	1	0	rw	yes	no	no
3810h (0)	mo16	cogging mode	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
3811h (0)	mo17	cogg. frequency factor	A	4	yes	INT8	0	127	0	-	1	1	0	rw	yes	no	no
3812h (0)	mo18	cogg. magnitude [%Mn]	A	4	yes	INT16	0	1024	0	%	100	1024	0	rw	yes	no	no
3813h (0)	mo19	cogg. phase [°]	A	4	yes	INT16	-32768	32767	0	-	100	18204	0	rw	yes	no	no
3814h (0)	mo20	cogg. fade out speed 100% [rpm]	V	-	yes	INT32	0	819200000	819200	1/ min	1	8192	0	rw	yes	no	no
3815h (0)	mo21	cogg. fade out speed 0% [rpm]	V	-	yes	INT32	0	819200000	8192000	1/ min	1	8192	0	rw	yes	no	no
3816h (0)	mo22	cogging PT1-time	V	-	yes	INT16	0	32767	4096	ms	1	4096	0	rw	yes	no	no
3820h (0)	mo32	ASM u/f offset	V	-	yes	INT16	-8192	8192	0	%	100	16384	0	rw	yes	no	no
3821h (0)	mo33	act. torque offset	V	-	yes	INT32	-2147483648	2147483647	0	Nm	1	1000	0	ro	yes	no	no
3822h (0)	mo34	torque offset corr. enable	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
3823h (0)	mo35	torque offset ident	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
3824h (0)	mo36	torque offset ident state	V	-	yes	UINT8	0	4	0	-	1	1	0	ro	yes	no	no
3825h (0)	mo37	torque offset ident error info	V	-	yes	UINT8	0	6	0	-	1	1	0	ro	yes	no	no
3826h (0)	mo38	torque offset ident config	S	-	yes	UINT8	9	9	9	-	1	1	0	ro	yes	no	no
3826h (1)	mo38	start speed	V	-	yes	UINT16	1	3000	50	%	1	10	0	rw	yes	no	no
3826h (2)	mo38	end speed	V	-	yes	UINT16	1	3000	1300	%	1	10	0	rw	yes	no	no
3826h (3)	mo38	ident torque source	V	-	yes	UINT8	0	1	1	-	1	1	0	rw	yes	no	no
3826h (4)	mo38	ident speed source	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
3826h (5)	mo38	ident max torque deviation	V	-	yes	UINT8	1	100	30	%	1	10	0	rw	yes	no	no
3826h (6)	mo38	ident max speed deviation	V	-	yes	UINT8	1	100	30	%	1	10	0	rw	yes	no	no
3826h (7)	mo38	ident torque number of samples	V	-	yes	UINT16	10	1000	1000	-	1	1	0	rw	yes	no	no
3826h (8)	mo38	ident speed stability check duration	V	-	yes	UINT16	10	1000	30	ms	1	1	0	rw	yes	no	no
3826h (9)	mo38	ident speed max settle duration	V	-	yes	UINT16	100	5000	500	ms	1	1	0	rw	yes	no	no
3827h (0)	mo39	torque offset data fsw0	S	-	yes	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
3827h (1)	mo39	data status fsw0	V	-	yes	UINT8	0	1	0	%	1	1	0	rw	yes	no	no
3827h (2)	mo39	starting speed fsw0	V	-	yes	INT32	1	1048576000	581703	1/ min	1	8192	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3827h (3)	mo39	speed step fsw0	V	-	yes	INT32	1	1048576000	969387	1/ min	1	8192	0	rw	yes	no	no
3827h (4)	mo39	control mode fsw0	V	-	yes	UINT8	1	3	3	-	1	1	0	rw	yes	no	no
3828h (0)	mo40	torque offset data fsw1	S	-	yes	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
3828h (1)	mo40	data status fsw1	V	-	yes	UINT8	0	1	0	%	1	1	0	rw	yes	no	no
3828h (2)	mo40	starting speed fsw1	V	-	yes	INT32	1	1048576000	581703	1/ min	1	8192	0	rw	yes	no	no
3828h (3)	mo40	speed step fsw1	V	-	yes	INT32	1	1048576000	969387	1/ min	1	8192	0	rw	yes	no	no
3828h (4)	mo40	control mode fsw1	V	-	yes	UINT8	1	3	3	-	1	1	0	rw	yes	no	no
3829h (0)	mo41	torque offset data fsw2	S	-	yes	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
3829h (1)	mo41	data status fsw2	V	-	yes	UINT8	0	1	0	%	1	1	0	rw	yes	no	no
3829h (2)	mo41	starting speed fsw2	V	-	yes	INT32	1	1048576000	581703	1/ min	1	8192	0	rw	yes	no	no
3829h (3)	mo41	speed step fsw2	V	-	yes	INT32	1	1048576000	969387	1/ min	1	8192	0	rw	yes	no	no
3829h (4)	mo41	control mode fsw2	V	-	yes	UINT8	1	3	3	-	1	1	0	rw	yes	no	no
382Ah (0)	mo42	torque offset data fsw3	S	-	yes	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
382Ah (1)	mo42	data status fsw3	V	-	yes	UINT8	0	1	0	%	1	1	0	rw	yes	no	no
382Ah (2)	mo42	starting speed fsw3	V	-	yes	INT32	1	1048576000	581703	1/ min	1	8192	0	rw	yes	no	no
382Ah (3)	mo42	speed step fsw3	V	-	yes	INT32	1	1048576000	969387	1/ min	1	8192	0	rw	yes	no	no
382Ah (4)	mo42	control mode fsw3	V	-	yes	UINT8	1	3	3	-	1	1	0	rw	yes	no	no
382Bh (0)	mo43	torque offset array fsw0	A	16	yes	INT32	-8388609	2139095039	0	Nm	1	1	0	rw	yes	no	no
382Ch (0)	mo44	torque offset array fsw1	A	16	yes	INT32	-8388609	2139095039	0	Nm	1	1	0	rw	yes	no	no
382Dh (0)	mo45	torque offset array fsw2	A	16	yes	INT32	-8388609	2139095039	0	Nm	1	1	0	rw	yes	no	no
382Eh (0)	mo46	torque offset array fsw3	A	16	yes	INT32	-8388609	2139095039	0	Nm	1	1	0	rw	yes	no	no
3911h (0)	cu17	C Uic (uF)	V	-	no	UINT32	0	2000000000	0	-	1	1	0	rw	yes	no	no
6040h (0)	-	controlword	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
6041h (0)	-	statusword	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3920h (0)	cu32	power off	S	-	yes	UINT8	12	12	12	-	1	1	0	ro	yes	no	no
3920h (1)	cu32	power off mode	V	-	no	UINT16	0	1	0	-	1	1	0	rw	yes	no	no
3920h (2)	cu32	DC voltage trigger level [ru63%]	V	-	no	UINT16	0	2000	800	%	1	10	0	rw	yes	no	no
3920h (3)	cu32	DC voltage ref. [ru63%]	V	-	no	UINT16	0	3000	880	%	1	10	0	rw	yes	no	no
3920h (4)	cu32	restart speed level [Nn%]	V	-	no	UINT16	0	10000	150	%	1	10	0	rw	yes	no	no
3920h (5)	cu32	stopping speed level [Nn%]	V	-	no	UINT16	0	10000	100	%	1	10	0	rw	yes	no	no
3920h (6)	cu32	deactivation time	V	-	no	UINT16	0	60000	100	s	1	100	0	rw	yes	no	no
3920h (7)	cu32	power off state	V	-	yes	UINT8	0	11	0	-	1	1	0	ro	yes	no	no
3920h (10)	cu32	torque limit Uic gen.	V	-	no	INT16	-1	10000	1000	%	1	10	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3920h (11)	cu32	torque limit Uic mot.	V	-	no	INT16	-1	10000	100	%	1	10	0	rw	yes	no	no
3920h (12)	cu32	optimisation factor	V	-	no	UINT8	19	100	40	-	1	10	0	rw	yes	no	no
3A00h (0)	ai00	freq. ident	V	-	yes	UINT16	0	65535	1000	Hz	1	1	0	rw	yes	no	no
3A01h (0)	ai01	freq.decoup	V	-	yes	UINT16	0	65535	500	Hz	1	1	0	rw	yes	no	no
3A02h (0)	ai02	amp. ident	V	-	yes	UINT32	0	2139095039	1101004800	V	1	1	0	rw	yes	no	no
3A03h (0)	ai03	amp. decoup	V	-	yes	UINT32	0	2139095039	1092616192	V	1	1	0	rw	yes	no	no
3A04h (0)	ai04	set RhoDC mode	V	-	yes	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
3A05h (0)	ai05	RhoDC[°]	V	-	yes	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3A06h (0)	ai06	lsd ref.	V	-	yes	INT32	-8388609	2139095039	0	A	1	1	0	rw	yes	no	no
3A07h (0)	ai07	lsq ref.	V	-	yes	INT32	-8388609	2139095039	0	A	1	1	0	rw	yes	no	no
3A08h (0)	ai08	ident start	V	-	yes	UINT8	0	2	0	-	1	1	0	rw	yes	no	no
3A09h (0)	ai09	RhoHF[°]	V	-	yes	INT32	-8388609	2139095039	0	-	1	1	0	rw	yes	no	no
3A0Ah (0)	ai10	theta1	V	-	yes	UINT32	0	2139095039	0	-	1	1	0	ro	yes	no	no
3A0Bh (0)	ai11	theta2	V	-	yes	UINT32	0	2139095039	0	-	1	1	0	ro	yes	no	no
3A0Ch (0)	ai12	theta3	V	-	yes	UINT32	0	2139095039	0	-	1	1	0	ro	yes	no	no
3A0Dh (0)	ai13	L	V	-	yes	UINT32	0	2139095039	0	mH	1	1	0	ro	yes	no	no
3A0Eh (0)	ai14	ready flag	V	-	yes	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
3A0Fh (0)	ai15	USearch start	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
3A10h (0)	ai16	USearch I ref.	V	-	yes	UINT32	0	2139095039	0	A	1	1	0	rw	yes	no	no
3A11h (0)	ai17	USearch result	V	-	yes	UINT32	0	2139095039	0	V	1	1	0	ro	yes	no	no
3A12h (0)	ai18	USearch info	V	-	yes	UINT8	0	4	0	-	1	1	0	ro	yes	no	no
3A13h (0)	ai19	ident coeff.	V	-	yes	UINT8	0	8	0	-	1	1	0	ro	yes	no	no
3A14h (0)	ai20	Ud	V	-	yes	INT32	-8388609	2139095039	0	-	1	1	0	ro	yes	no	no
3A15h (0)	ai21	Uq	V	-	yes	INT32	-8388609	2139095039	0	-	1	1	0	ro	yes	no	no
3A16h (0)	ai22	Id	V	-	yes	INT32	-8388609	2139095039	0	-	1	1	0	ro	yes	no	no
3A17h (0)	ai23	Iq	V	-	yes	INT32	-8388609	2139095039	0	-	1	1	0	ro	yes	no	no
3A18h (0)	ai24	R	V	-	yes	UINT32	0	2139095039	0	Ω	1	1	0	ro	yes	no	no
3A19h (0)	ai25	ai - deadtime mode	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
3B17h (0)	cm23	min limit for motor poti	V	-	yes	UINT16	0	10000	0	%	1	100	0	rw	yes	no	no
3B18h (0)	cm24	max limit for motor poti	V	-	yes	UINT16	0	10000	10000	%	1	100	0	rw	yes	no	no
3B19h (0)	cm25	min limit rev motor poti	V	-	yes	UINT16	0	10000	0	%	1	100	0	rw	yes	no	no
3B1Ah (0)	cm26	max limit rev motor poti	V	-	yes	UINT16	0	10000	10000	%	1	100	0	rw	yes	no	no
3B1Bh (0)	cm27	motor poti ref value	V	-	yes	UINT32	0	128000	1000	1/ min	1	1	0	rw	yes	no	no
3B1Ch (0)	cm28	motor poti reset value	V	-	yes	INT16	-10000	10000	0	%	1	100	0	rw	yes	no	no
3B1Dh (0)	cm29	motor poti inc gain [%/s]	V	-	yes	UINT16	0	65535	10	-	1	100	0	rw	yes	no	no
3B1Eh (0)	cm30	motor poti dec gain [%/s]	V	-	yes	UINT16	0	65535	10	-	1	100	0	rw	yes	no	no
3B1Fh (0)	cm31	inc motor poti input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3B20h (0)	cm32	dec motor poti input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3B21h (0)	cm33	reset motor poti input	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3B22h (0)	cm34	activate jog mode	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3B23h (0)	cm35	jog positive	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3B24h (0)	cm36	jog negative	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3B25h (0)	cm37	activate jog speed 2	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3B26h (0)	cm38	jog step mode	V	-	yes	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3B29h (0)	cm41	jog speed 1 positive	V	-	yes	UINT32	0	128000	0	1/ min	1	1	0	rw	yes	no	no
3B2Ah (0)	cm42	jog speed 1 negative	V	-	yes	UINT32	0	128000	0	1/ min	1	1	0	rw	yes	no	no
3B2Bh (0)	cm43	jog speed 2 positive	V	-	yes	UINT32	0	128000	0	1/ min	1	1	0	rw	yes	no	no
3B2Ch (0)	cm44	jog speed 2 negative	V	-	yes	UINT32	0	128000	0	1/ min	1	1	0	rw	yes	no	no
3B2Dh (0)	cm45	jog step distance	V	-	yes	UINT32	0	2147483647	0	-	1	1	0	rw	yes	no	no
3B2Eh (0)	cm46	jog mode options	V	-	no	UINT16	0	63	0	-	1	1	0	rw	yes	no	no
3B30h (0)	cm48	jog acceleration for [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
3B31h (0)	cm49	jog deceleration for [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
3B32h (0)	cm50	jog acceleration rev [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
3B33h (0)	cm51	jog deceleration rev [s-2]	V	-	yes	INT32	1	1747626666	2000	-	1	100	0	rw	yes	no	no
3B34h (0)	cm52	jog for acc jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
3B35h (0)	cm53	jog for acc jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
3B36h (0)	cm54	jog for dec jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
3B37h (0)	cm55	jog for dec jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
3B38h (0)	cm56	jog rev acc jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
3B39h (0)	cm57	jog rev acc jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
3B3Ah (0)	cm58	jog rev dec jerk hs [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
3B3Bh (0)	cm59	jog rev dec jerk ls [s-3]	V	-	yes	INT32	50	104857600	10000	-	1	100	0	rw	yes	no	no
3B3Ch (0)	cm60	jog ramp mode	V	-	yes	UINT8	0	255	8	-	1	1	0	rw	yes	no	no
3B3Dh (0)	cm61	jog mode state	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3B3Eh (0)	cm62	motor poti actual value	V	-	yes	INT16	0	10000	0	%	1	100	0	ro	yes	no	no
3C03h (0)	sm03	safety module 3	S	-	no	UINT8	14	14	14	-	1	1	0	ro	yes	no	no
3C03h (1)	sm03	enabled safety function	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3C03h (2)	sm03	bus safety function state	V	-	no	UINT32	0	65536	0	-	1	1	0	ro	yes	no	no
3C03h (3)	sm03	global safety state	V	-	no	UINT32	0	65539	0	-	1	1	0	ro	yes	no	no
3C03h (4)	sm03	error state	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3C03h (5)	sm03	last error / warning	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3C03h (6)	sm03	bus error	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3C03h (7)	sm03	I/O state	V	-	no	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C03h (8)	sm03	encoder speed	V	-	no	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C03h (9)	sm03	encoder position (full rounds)	V	-	no	INT32	-2147483647	2147483647	0	-	1	1	0	ro	yes	no	no
3C03h (10)	sm03	encoder position (partial rounds)	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3C03h (11)	sm03	safety module date and time	V	-	no	UINT32	0	-1	0	s	1	1	0	rw	yes	no	no
3C03h (12)	sm03	safety module led blinking	V	-	no	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
3C03h (13)	sm03	safety fieldbus type	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
3C03h (14)	sm03	safety fieldbus data length	V	-	no	UINT8	0	40	0	-	1	1	0	ro	yes	no	no
3C0Ah (0)	sm10	inverter reaction in case of "fail safe"	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
3C0Bh (0)	sm11	inverter reaction in case of "STO"	V	-	yes	UINT8	0	8	7	-	1	1	0	rw	yes	no	no
3C0Ch (0)	sm12	opt. inverter reaction in case of "STO" or "fail safe"	V	-	yes	UINT8	0	1	0	-	1	1	0	rw	yes	no	no
3C12h (0)	sm18	log read out type	V	-	no	INT8	-1	8	-1	-	1	1	0	rw	yes	no	no
3C13h (0)	sm19	log read out state	V	-	yes	INT8	-1	2	0	-	1	1	0	ro	yes	no	no
3C14h (0)	sm20	log entry 0	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
3C14h (1)	sm20	date and time	V	-	yes	UINT32	0	-1	0	s	1	1	0	ro	yes	no	no
3C14h (2)	sm20	position	V	-	yes	INT32	0	0	0	-	1	1	0	ro	yes	no	no
3C14h (3)	sm20	speed	V	-	yes	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C14h (4)	sm20	time slice per 62,5 us	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3C14h (5)	sm20	details of "(bus) safety function request"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C14h (6)	sm20	details of "error"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C15h (0)	sm21	log entry 1	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
3C15h (1)	sm21	date and time	V	-	yes	UINT32	0	-1	0	s	1	1	0	ro	yes	no	no
3C15h (2)	sm21	position	V	-	yes	INT32	0	0	0	-	1	1	0	ro	yes	no	no
3C15h (3)	sm21	speed	V	-	yes	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C15h (4)	sm21	time slice per 62,5 us	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3C15h (5)	sm21	details of "(bus) safety function request"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C15h (6)	sm21	details of "error"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C16h (0)	sm22	log entry 2	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
3C16h (1)	sm22	date and time	V	-	yes	UINT32	0	-1	0	s	1	1	0	ro	yes	no	no
3C16h (2)	sm22	position	V	-	yes	INT32	0	0	0	-	1	1	0	ro	yes	no	no
3C16h (3)	sm22	speed	V	-	yes	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C16h (4)	sm22	time slice per 62,5 us	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3C16h (5)	sm22	details of "(bus) safety function request"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C16h (6)	sm22	details of "error"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C17h (0)	sm23	log entry 3	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3C17h (1)	sm23	date and time	V	-	yes	UINT32	0	-1	0	s	1	1	0	ro	yes	no	no
3C17h (2)	sm23	position	V	-	yes	INT32	0	0	0	-	1	1	0	ro	yes	no	no
3C17h (3)	sm23	speed	V	-	yes	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C17h (4)	sm23	time slice per 62,5 us	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3C17h (5)	sm23	details of "(bus) safety function request"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C17h (6)	sm23	details of "error"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C18h (0)	sm24	log entry 4	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
3C18h (1)	sm24	date and time	V	-	yes	UINT32	0	-1	0	s	1	1	0	ro	yes	no	no
3C18h (2)	sm24	position	V	-	yes	INT32	0	0	0	-	1	1	0	ro	yes	no	no
3C18h (3)	sm24	speed	V	-	yes	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C18h (4)	sm24	time slice per 62,5 us	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3C18h (5)	sm24	details of "(bus) safety function request"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C18h (6)	sm24	details of "error"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C19h (0)	sm25	log entry 5	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
3C19h (1)	sm25	date and time	V	-	yes	UINT32	0	-1	0	s	1	1	0	ro	yes	no	no
3C19h (2)	sm25	position	V	-	yes	INT32	0	0	0	-	1	1	0	ro	yes	no	no
3C19h (3)	sm25	speed	V	-	yes	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C19h (4)	sm25	time slice per 62,5 us	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3C19h (5)	sm25	details of "(bus) safety function request"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C19h (6)	sm25	details of "error"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Ah (0)	sm26	log entry 6	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
3C1Ah (1)	sm26	date and time	V	-	yes	UINT32	0	-1	0	s	1	1	0	ro	yes	no	no
3C1Ah (2)	sm26	position	V	-	yes	INT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Ah (3)	sm26	speed	V	-	yes	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C1Ah (4)	sm26	time slice per 62,5 us	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3C1Ah (5)	sm26	details of "(bus) safety function request"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Ah (6)	sm26	details of "error"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Bh (0)	sm27	log entry 7	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
3C1Bh (1)	sm27	date and time	V	-	yes	UINT32	0	-1	0	s	1	1	0	ro	yes	no	no
3C1Bh (2)	sm27	position	V	-	yes	INT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Bh (3)	sm27	speed	V	-	yes	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C1Bh (4)	sm27	time slice per 62,5 us	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3C1Bh (5)	sm27	details of "(bus) safety function request"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Bh (6)	sm27	details of "error"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Ch (0)	sm28	log entry 8	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3C1Ch (1)	sm28	date and time	V	-	yes	UINT32	0	-1	0	s	1	1	0	ro	yes	no	no
3C1Ch (2)	sm28	position	V	-	yes	INT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Ch (3)	sm28	speed	V	-	yes	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C1Ch (4)	sm28	time slice per 62,5 us	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3C1Ch (5)	sm28	details of "(bus) safety function request"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Ch (6)	sm28	details of "error"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Dh (0)	sm29	log entry 9	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
3C1Dh (1)	sm29	date and time	V	-	yes	UINT32	0	-1	0	s	1	1	0	ro	yes	no	no
3C1Dh (2)	sm29	position	V	-	yes	INT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Dh (3)	sm29	speed	V	-	yes	INT32	-99999999	536870911	0	1/ min	1	8192	0	ro	yes	no	no
3C1Dh (4)	sm29	time slice per 62,5 us	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3C1Dh (5)	sm29	details of "(bus) safety function request"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3C1Dh (6)	sm29	details of "error"	V	-	yes	UINT32	0	0	0	-	1	1	0	ro	yes	no	no
3D00h (0)	pa00	PROFIsafe device frame elements	S	-	yes	UINT8	3	3	3	-	1	1	0	ro	yes	no	no
3D00h (1)	pa00	PROFIsafe status byte	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
3D00h (2)	pa00	PROFIsafe CRC2 (1st)	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D00h (3)	pa00	PROFIsafe CRC2 (2nd)	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D01h (0)	pa01	PROFIsafe safe inputs (SafetyModule->Controller)	S	-	yes	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
3D01h (1)	pa01	PROFIsafe input data 1	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D01h (2)	pa01	PROFIsafe input data 2	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D01h (3)	pa01	PROFIsafe input data 3	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D01h (4)	pa01	PROFIsafe input data 4	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D01h (5)	pa01	PROFIsafe input data 5	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D02h (0)	pa02	PROFIsafe controller frame elements	S	-	yes	UINT8	3	3	3	-	1	1	0	ro	yes	no	no
3D02h (1)	pa02	PROFIsafe control byte	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
3D02h (2)	pa02	PROFIsafe CRC2 (1st)	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D02h (3)	pa02	PROFIsafe CRC2 (2nd)	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D03h (0)	pa03	PROFIsafe safe outputs (Controller->SafetyModule)	S	-	yes	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
3D03h (1)	pa03	PROFIsafe output data 1	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D03h (2)	pa03	PROFIsafe output data 2	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D03h (3)	pa03	PROFIsafe output data 3	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D03h (4)	pa03	PROFIsafe output data 4	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D03h (5)	pa03	PROFIsafe output data 5	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D04h (0)	pa04	PROFIsafe state machine info	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
3D05h (0)	pa05	PROFIsafe alarms	S	-	yes	UINT8	10	10	10	-	1	1	0	ro	yes	no	no
3D05h (1)	pa05	alarm entry 1	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D05h (2)	pa05	alarm entry 2	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
3D05h (3)	pa05	alarm entry 3	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D05h (4)	pa05	alarm entry 4	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D05h (5)	pa05	alarm entry 5	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D05h (6)	pa05	alarm entry 6	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D05h (7)	pa05	alarm entry 7	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D05h (8)	pa05	alarm entry 8	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D05h (9)	pa05	alarm entry 9	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D05h (10)	pa05	alarm entry 10	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
3D08h (0)	pa08	PROFIsafe safety module PD init	S	-	no	UINT8	3	3	3	-	1	1	0	ro	yes	no	no
3D08h (1)	pa08	PROFIsafe Rx PDO index	V	-	no	UINT16	5632	5636	5636	-	1	1	0	rw	yes	no	no
3D08h (2)	pa08	PROFIsafe Tx PDO Index	V	-	no	UINT16	6656	6660	6660	-	1	1	0	rw	yes	no	no
3D08h (3)	pa08	PROFIsafe ModuleID	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3D09h (0)	pa09	PROFIsafe F-Parameter	S	-	no	UINT8	8	8	8	-	1	1	0	ro	yes	no	no
3D09h (1)	pa09	PrmFlag1	V	-	no	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
3D09h (2)	pa09	PrmFlag2	V	-	no	UINT8	0	255	0	-	1	1	0	rw	yes	no	no
3D09h (3)	pa09	Source Address	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3D09h (4)	pa09	Destination Address	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3D09h (5)	pa09	watchdog time	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3D09h (6)	pa09	watchdog time 2	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
3D09h (7)	pa09	iPar CRC	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	yes	no	no
3D09h (8)	pa09	parameter CRC	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
6620h (0)	-	Safe Controlword	A	8	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
6621h (0)	-	Safe Statusword	A	8	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
6630h (0)	-	Restart_Ack (support)	V	-	no	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
6640h (0)	-	STO support	V	-	no	UINT8	0	1	1	-	1	1	0	ro	yes	no	no
6641h (0)	-	STO Restart_Ack_behaviour	V	-	no	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
6650h (0)	-	SS1 support	A	8	no	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
6651h (0)	-	t_SS1 (SS1C)	A	8	no	UINT32	0	600000	0	ms	1	1	0	ro	yes	no	no
6656h (0)	-	a_ss1 32Bit	A	8	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
6660h (0)	-	SBC support	A	1	no	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
6668h (0)	-	SOS support	A	8	no	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
666Ah (0)	-	s_Zero_SOS 32Bit	A	8	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
6670h (0)	-	SS2 support	A	8	no	UINT8	0	1	0	-	1	1	0	ro	yes	no	no
6671h (0)	-	t_SS2 (SS2C)	A	8	no	UINT32	0	600000	0	ms	1	1	0	ro	yes	no	no
6674h (0)	-	a_ss2 32Bit	A	8	no	UINT32	0	-1	0	-	1	8192	0	ro	yes	no	no
6677h (0)	-	Error Reaction SS2	A	8	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
6690h (0)	-	SLS support	A	8	no	UINT8	0	1	1	-	1	1	0	ro	yes	no	no
6693h (0)	-	n_SLS_32_Bit	A	8	no	UINT32	0	2147483647	0	1/ min	1	8192	0	ro	yes	no	no



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6698h (0)	-	Error Reaction SLS	A	8	no	UINT32	0	-1	1715470337	-	1	1	0	ro	yes	no	no
66A0h (0)	-	SLP support	A	8	no	UINT8	0	1	1	-	1	1	0	ro	yes	no	no
66A2h (0)	-	s_UL_SLP_32Bit	A	8	no	INT32	-2147483648	2147483647	0	-	1	1	0	ro	yes	no	no
66A4h (0)	-	s_LL_SLP_32Bit	A	8	no	INT32	-2147483648	2147483647	0	-	1	1	0	ro	yes	no	no
66A5h (0)	-	Error Reaction SLP	A	8	no	UINT32	0	-1	1715470337	-	1	1	0	ro	yes	no	no
66A8h (0)	-	SMS support	A	8	no	UINT8	0	1	1	-	1	1	0	ro	yes	no	no
66AAh (0)	-	n_pos_max_SMS_32Bit	A	8	no	UINT32	0	-1	0	1/ min	1	8192	0	ro	yes	no	no
66ACh (0)	-	n_neg_max_SMS_32Bit	A	8	no	INT32	-2147483648	2147483647	0	1/ min	1	8192	0	ro	yes	no	no
66ADh (0)	-	Error Reaction SMS	A	8	no	UINT32	0	-1	1715470337	-	1	1	0	ro	yes	no	no
66B8h (0)	-	SLI support	A	8	no	UINT8	0	1	1	-	1	1	0	ro	yes	no	no
66BAh (0)	-	s_UL_SLI_32 Bit	A	8	no	INT32	-2147483648	2147483647	1	-	1	1	0	ro	yes	no	no
66BCh (0)	-	s_LL_SLI 32 Bit	A	8	no	INT32	-2147483648	2147483647	1	-	1	1	0	ro	yes	no	no
66BDh (0)	-	Error Reaction SLI	A	8	no	UINT32	0	-1	1715470337	-	1	1	0	ro	yes	no	no
66D0h (0)	-	SDIp support	V	-	no	UINT8	0	1	1	-	1	1	0	ro	yes	no	no
66D1h (0)	-	SDIn support	V	-	no	UINT8	0	1	1	-	1	1	0	ro	yes	no	no
66D3h (0)	-	s_Zero_SDI_32Bit	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
66E0h (0)	-	SSM support	A	8	no	UINT8	0	1	1	-	1	1	0	ro	yes	no	no
66E2h (0)	-	n_UL_SSM_32Bit	A	8	no	INT32	-2147483648	2147483647	1	1/ min	1	8192	0	ro	yes	no	no
66E4h (0)	-	n_LL_SSM_32Bit	A	8	no	INT32	-2147483648	2147483647	1	1/ min	1	8192	0	ro	yes	no	no
E600h (0)	-	FSoE Slave frame elements	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
E600h (1)	-	FSoE Command	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E600h (2)	-	FSoE Connection ID	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E600h (3)	-	FSoE CRC0	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E600h (4)	-	FSoE CRC1	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E600h (5)	-	FSoE CRC2	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E600h (6)	-	FSoE CRC3	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E601h (0)	-	FSoE SafeInputs (SafetyModule->Master)	S	-	yes	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
E601h (1)	-	FSoE safe input data 1	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E601h (2)	-	FSoE safe input data 2	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E601h (3)	-	FSoE safe input data 3	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E601h (4)	-	FSoE safe input data 4	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E601h (5)	-	FSoE safe input data 5	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E700h (0)	-	FSoE Master frame elements	S	-	yes	UINT8	6	6	6	-	1	1	0	ro	yes	no	no
E700h (1)	-	FSoE Command	V	-	yes	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E700h (2)	-	FSoE Connection ID	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no

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E700h (3)	-	FSoE CRC0	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E700h (4)	-	FSoE CRC1	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E700h (5)	-	FSoE CRC2	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E700h (6)	-	FSoE CRC3	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E701h (0)	-	FSoE SafeOutputs	S	-	yes	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
E701h (1)	-	FSoE safe output data 1	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E701h (2)	-	FSoE safe output data 2	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E701h (3)	-	FSoE safe output data 3	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E701h (4)	-	FSoE safe output data 4	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E701h (5)	-	FSoE safe output data 5	V	-	yes	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E800h (0)	-	Safety Device Info	S	-	no	UINT8	4	4	4	-	1	1	0	ro	yes	no	no
E800h (1)	-	Combivis CRC	V	-	no	UINT32	0	-1	0	-	1	1	0	rw	yes	no	no
E800h (2)	-	Parameter main version	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E800h (3)	-	Parameter sub version	V	-	no	UINT16	0	65535	0	-	1	1	0	rw	yes	no	no
E800h (4)	-	FSoE Data length	V	-	no	UINT8	0	19	0	-	1	1	0	ro	yes	no	no
E801h (0)	-	Safety Receive PDO mapping (Control->Drive)	S	-	no	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
E801h (1)	-	1. Mapping	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E801h (2)	-	2. Mapping	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E801h (3)	-	3. Mapping	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E801h (4)	-	4. Mapping	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E801h (5)	-	5. Mapping	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E802h (0)	-	Safety Transmit PDO mapping (Drive->Control)	S	-	no	UINT8	5	5	5	-	1	1	0	ro	yes	no	no
E802h (1)	-	1. Mapping	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E802h (2)	-	2. Mapping	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E802h (3)	-	3. Mapping	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E802h (4)	-	4. Mapping	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E802h (5)	-	5. Mapping	V	-	no	UINT8	0	255	0	-	1	1	0	ro	yes	no	no
E803h (0)	-	Safety Device unit configuration	S	-	no	UINT8	2	2	2	-	1	1	0	ro	yes	no	no
E803h (1)	-	Position unit	V	-	no	UINT8	0	16	0	-	1	1	0	rw	yes	no	no
E803h (2)	-	Velocity unit	V	-	no	UINT8	0	16	0	-	1	1	0	rw	yes	no	no
E80Fh (0)	-	FSoE Safetymodule PD init	A	3	no	UINT32	0	-1	0	-	1	1	0	rw	yes	no	no
E901h (0)	-	FSoE Connection Communication parameter	S	-	no	UINT8	8	8	8	-	1	1	0	ro	yes	no	no
E901h (1)	-	Version	V	-	no	UINT16	0	65535	1	-	1	1	0	ro	yes	no	no
E901h (2)	-	Safety Slave Address	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E901h (3)	-	FSoE ConnectionID	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E901h (4)	-	Watchdog Time	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E901h (5)	-	Unique Device ID	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
E901h (6)	-	Connection Type	V	-	no	UINT16	0	65535	1	-	1	1	0	ro	yes	no	no

	IDtxt	Name	C	A	PD	Type	Lower limit	Upper limit	Default	SI	Mult	Div	Offset	r/w	Cu	Sec	Sy
E901h (7)	-	Com Parameter Length	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E901h (8)	-	Appl Parameter Length	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
F980h (0)	-	Device SafetyAddress	S	-	no	UINT8	1	1	1	-	1	1	0	ro	yes	no	no
F980h (1)	-	FSoE Address	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E901h (0)	-	FSoE Connection Communication parameter	S	-	no	UINT8	8	8	8	-	1	1	0	ro	yes	no	no
E901h (1)	-	Version	V	-	no	UINT16	0	65535	1	-	1	1	0	ro	yes	no	no
E901h (2)	-	Safety Slave Address	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E901h (3)	-	FSoE ConnectionID	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E901h (4)	-	Watchdog Time	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E901h (5)	-	Unique Device ID	V	-	no	UINT32	0	-1	0	-	1	1	0	ro	yes	no	no
E901h (6)	-	Connection Type	V	-	no	UINT16	0	65535	1	-	1	1	0	ro	yes	no	no
E901h (7)	-	Com Parameter Length	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
E901h (8)	-	Appl Parameter Length	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no
F980h (0)	-	Device SafetyAddress	S	-	no	UINT8	1	1	1	-	1	1	0	ro	yes	no	no
F980h (1)	-	FSoE Address	V	-	no	UINT16	0	65535	0	-	1	1	0	ro	yes	no	no





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