

AMK Diagnostic Messages

Version: 2013/36 Part-no.: 25786

Translation of the "Original Beschreibung"





Notes on this document

Name: PDK_025786_Diagnose

Version: Version Change

Version	Change	Letter symbol
2013/36	iX V1.03 2013/18: 1115, 1454, 2365	HeF

previous version:

Product version:

2013/17	. "A ₁ " "A ₂ "	Hardware
Product	Firmware Version (AMK part-no.)	Version
iC	V1.03 2013/18 (204515)	90
iX	141 141 141 141 141 141 141 141 141 141	
i3X iDT5	14, 14, 14,	The state of the s
KW-R03	AE-R03 V3.21 2011/49 (204379)	9
KU-R03	76°	JK3."
KW-R04	"Kip."	Car.
KW-R03P	AE-R03P V5.21 2011/49 (204380)	17.0
KU-R03P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0
KW-R05	AE-R05/06 V1.10 2012/51 (204395)	21/2
KW-R06	2, 2, 2,	2,
KW-R16	\ \ \	
AE-SF1	AE-SF1 V1.03 2013/11 (204434)	70 X
MCE-R06 (KW-R06)	MCE V1.09 2012/42 (204237)	*OUGIST.
KWZ (-EC)	KWZ V1.06 2010/30 (203167)	90,
KE, KEN, KES	KE-E03 V3.04 2013/03 (204405)	n ^d
KEx-0EU	KE-E10 V4.00 2012/17 (204105)	
IDT4	IDT V2.07 2011/35 (203697)	IDT-R1/-R2
A5S A5D	A5 V4.10 2013/06 (204418)	" acha.
A4S	A4 V4.10 2013/06 (204417)	20.
A4D	7.1.7 1.1.0 20 10/00 (204417)	P
AS-C	AS V3.16 2013/05 (204420)	22.2
AS-PL15 AS-P	4, 4, 4,	1/2
AZ	AZ V3.13 06/20 /201362)	AZ-R02
AW	AW V2.13 07/07 (201657)	AE-VE01 / -VE02

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Office hours: Mo-Fr 7.30 - 16.30, on weekends and holidays, we provide you with our Emergency

Support team telephone number on our answering machine.

For fast and reliable troubleshooting, you can help us by informing our Customer Service about the following:

• Type plate data for each unit

- Software version
- Device configuration and application
- Type of fault/problem and suspected cause
- Diagnostic messages (error messages)

Internet address: www.amk-antriebe.de



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1 Abbreviations

AFP AMK field bus protocol

AIPAR AMKASYN startup parameterizing software

AW AMKASYN inverter

AZ AZ computer (central drive computer)

AZ-EA24 EA24 option card (binary input/output card)

AZ-EA8 EA8 option card (binary input/output card)

AZ-MC1 NC option card

AZ-PSx Programmable control option card
AZ-R01 AZ computer (board designation)

AZB AZ control panel

AZSSINT AZ system-internal interface for users such as AZ-PSx, AZ-MC1, ...

BA Operation mode

BAV Operation mode management

DA Digital output
DEALLOC Memory enable
DTH Database
DZR Speed control

ES1, ES2 Main contactor interruption

FL Delete error HW Hardware

I_M Magnetizing current
I_{MAX} Inverter maximum current

I_N Nominal current IPO Interpolator

KE Compact power supply Series KE/KW

KMD Commanding

KMD-SS Commanding interface
KU Compact inverter

KW Compact inverter series KE/KW

LIW Feedback position value LT Logical participant

MNU Menu on AZ control panel

MON Monitor (AW or KU)

n Speed

n_{feedback} Feedback speed NMT Network management

n_N Nominal speed
n_{command} Command speed
OPT Option slot

OWG Optical waveguide
PEEP Parallel EEPROM
PDO Process data object

PS Programmable control unit

PTC PTC resistor

QRF Controller enable acknowledgement

QUE Inverter on acknowledgement

RF Controller enable

RM Motor with integrated frequency inverter

RPDO Remote process data object



SBM/SBT Group ready message

SBUS AMK-specific protocol for serial interfaces

SDO Service data object SEEP Serial EEPROM

T Temperature or time period

t Time

UA1 Analog command value voltage for AW analog input A1

ub_basync Bit block for controlling the command value synchronization in the drive

UE Inverter On

UZN DC bus voltage pole negative UZP DC bus voltage pole positive

VA Volt ampere

x Position command value

ZWR Central inverter 03h 3 hexadecimal



2 Overview

Operating faults are reported in the following ways:

- Group ready message signal (SBM, SBT) is withdrawn, no operational readiness
- Diagnostic message on the control panel
- Diagnostic message by PC program through serial interface (SBUS protocol)
- Internal diagnostic message with access possibility through e.g. AZ-PSx or AZ-MCx, AFP
- Output of bit information through binary outputs (e.g. SBM or warning bit)

Further diagnostic information can be read in different ways:

- Plain language message on the control panel after calling up the DIAGNOSTICS menu item
- · Contents of the internal diagnostic stack are displayed on the control panel
- Request of the diagnostic stack by PC through serial interface (SBUS protocol)
- "Clocking out" the diagnostic code through binary outputs DA1 ... DA4 by a higher-level control system (only for AZ)

System initialization, error deletion, display of messages

The following events lead to basic initialization of the converter system:

- First energization of the converter
- Error deletion on lack of group ready message
- Permanent data change with following activation of the controller enable

After each system initialization the intact converter system goes into the "Operational readiness" state. Starting from this state, all system functions can be used without restriction.

Messages with error character are displayed immediately on the control panel with the information for diagnosis. The characteristic of the drive can differ very much in this regard and one must refer to the following table for the concrete case. If the same messages with different diagnostic numbers arise, then the cause must be found in different sources. Messages with information character or warnings are not displayed automatically on the control panel. But these can be selected through the DIAGNOSTICS menu item on the control panel and can be deleted only by "Error deletion".

"See description" or "System diagnostics" message

The drive system reports internal states which cannot be influenced parametrically by the user with a number and the above text.

If this message appears in operation, please inform the AMK service (telephone: +49 (0) 70 21/50 05 - 191) and notify the associated number and the additional information which appears on pressing the F2 key on the control panel. For further information see "Clocking out the diagnostic message".

If parameters are referred to in this description (e.g. see ID 110), then for information refer to the AMKASYN Parameter Documentation.

"NO COMMUNICATION" message

If the physical connection between the unit and control panel is disturbed, this message is generated autonomously by the control panel (check cable or control panel).

3 Meaning of the diagnostic messages

Message classes:

- Warning message
 - Warning messages do not influence the drive behaviour.
- Warning message with following reaction
 After the warning time is over (4 seconds after the warning message was generated) the drive generates e.g. an error message and withdrawal SBM.
- Error

Drive Behaviour:

- Coasting
 - Drive runs down
- Braking
 Controlled braking of all drives with ramp down time according to ID 32782.

Device Behaviour:

- System run-up aborted
 - The system run-up could not be finished successfully. The "system ready message" is not set. Please check the wiring and the parameter setting.
- Disconnection from the power net
 - The KE stops the excitation of the main contactor. Then the main contactor opens and disconnects the KE from the power supply. Depending on the device the main contactor is integrated into the KE or connected as a external component.
- Single treatment (only for AN/AZ/AW system)
 Single treatment of the faulty drive is possible according to "ID32796 Source RF".
- Automatic error reset and switch back on Behaviour of central inverter; see document 'PDK 203346 ZWR'



4 Diagnostic Messages (Numeric Order)

4.1 No. 257 ... 260 Control Panel

257 System diagnostics

 SBM withdraw 	val	The same of the sa	, d	20	Carlo.
Device	"A ₁₀ "	"I ₁₀ ",	7/10.	3	ž _{0.,}
Description	90,	190,	'90,	(30)	3,
Class	Warning	The same of the sa	Th.	Thu.	The same
Drive Behaviour		10	20	10	14
Device Behaviour		2			2
Additional Error Info	rmation (AMK Se	rvice)	?	72.X	10%
VIII.	190	Default in MN	NU _	20,	Nage,
Error removal	System OFF/C	(0)			

258 Leave RF active

Device	20,0				
Description	"The	20/10	dh	ž.	1
Class	Warning	.010	.000	.0170	
Drive Behaviour	7000 m	1000	12/2	1200	
Device Behaviour	· 9 (Q)	71,0	7/0,	71/0	. 64
Additional Error Infor	mation (AMK Service	e)	Alle,	The state of the s	21/1/2
Error removal	RF must remain a	bsolutely set at the co	mmanded function	A	

259 System diagnostics

SBM withdrawal	'92°	1900	(30)	.85°	
Device		$T_{d_{1}}$	71/4	774.	The state of the s
Description		de.	12.	do.	1/2
Class	Warning	2		2	2
Drive Behaviour	16.3	16.8	>	TO'S	10.7
Device Behaviour	190	Naga.	N. S.		No.
Additional Error Inform	ation (AMK Service	e) <u></u> (2)	10		10
900	900	Deallocation of	of MNU out of function	n 💥	, è
Error removal	System OFF/ON (F	IW reset)	"Zy.	"Ay	Tay.

4.2 No. 512 ... 525 Monitor

Check parallel	EEPROM on the con	trol board	1900		1900	
Device	the second	This.	This.	il.	24.	May.
Description		20	17,	11,		24
Class						
Drive Behaviour	75.5	N	3.X	73.S.	13.5	
Device Behaviour	System run-up abo	orted		797.	79 ₂₄	
Additional Error Inform	mation (AMK Servic	e) (0)		¹⁷ 01,	10	
TO SE	1000	Timeout M	10N PEEP		.70°	
Error removal	450	"Ay's	14/10	2-	4/2	14/

 Check parallel 	I EEPROM on the control b	oard			
Device	The state of the s	The state of the s		22,0	220
Description					
Class	9	9	6	ò	}
Drive Behaviour	Tho.	Tho.	The .	The.	
Device Behaviour	System run-up aborted	Car.	C. T.	The state of the s	
Additional Error Infor	rmation (AMK Service)	8	260	770	
. Th.,	100	PEEP handshake		. B	. 35
Error removal	74,	The state of the s		77/20.	774,

516 System diagnostics

Check AZ(X27))-AW(X57)-BUS	749,	"gight	Á	3
Device	Ó	101	101	100	101
Description	X	200	7025	700	7000
Class	'44' _{[S}		4.5	47/2	"Mylos
Drive Behaviour	2/4,	274		M.	21,
Device Behaviour	System run-up abo	rted			
Additional Error Infor	mation (AMK Service	e)			J. 8. 2
20/2	44	Timeout AW Mo	ON	-8	3/2
Error removal	Is the AW module of	connected correctly?	xol'	70/1	200

517 System diagnostics

Check AZ(X27))-AW(X57)-BUS			-19	- 79
Device		8	9	8	<u> </u>
Description	764	760.	76,	"Ho.	
Class	1/000	The state of the s	"Kigo,	The state of the s	22.
Drive Behaviour	9	20	"Jic.	2/2/20	
Device Behaviour	System run-up aborte	ed	The same of the sa	The second	190
Additional Error Infor	mation (AMK Service)	A STATE OF THE STA	12,	Tru.	77.7
4,	4.	AW-MON hand	dshake	4.	4,
Error removal	Is the AW module co	nnected correctly?	A	à	

70%	7020	70/20		72,5	70%
Device	'' TI' 100	"Mylos	127	i e	" Tyles
Description	20,	27,0	20,		124
Class					
Drive Behaviour	2.5	4.5		12.60	
Device Behaviour	System run-up aborted	THE STATE OF THE S	12/4	27/2	
Additional Error Inform	mation (AMK Service)	X	OLL .	, offi	70%
1000	70/20	Inadmissible monitor	order	10 ² 00	7037
Error removal			hr.	(9)	"H'.O.



 SEEP in the in 	verter cannot be addresse	d	300	700	3
Device	The The	-	The same of the sa	744	The state of the s
Description			-		
Class	9	9		9	9
Drive Behaviour	Thou.	.7kg.,	Ho		743.
Device Behaviour	System run-up aborted	"Class	-C. 20.		Con.
Additional Error Infor	mation (AMK Service)	770	allie.	2/20	7
O. C.	100	Timeout MON SE	EPDRV	. 350	3.
Error removal	100		The same of the sa	212.	Ma.

520 System diagnostics

SEEP in the inv	verter cannot be a	addressed	, å	3	ig.
Device	10°C	10,000	2000	10°C	
Description	70,00	7000	7000	7200	
Class	1	27/2	14/10	4/100	The state of
Drive Behaviour		U.	274	274,	274
Device Behaviour	System run-up	aborted			
Additional Error Inform	nation (AMK Se	rvice)	3.5		
27/10	12%	SEEP DR	V handshake	3	de
Error removal	xoll a	70%	707	×0/10×	

521 System diagnostics

Device	8				
Description	Mo.,	W.	Tho.	~4z). ·
Class	Car,	Mar.	K.	- Clark	
Drive Behaviour	all to	"Zifo	7/20	2/10	
Device Behaviour	System run-up aborted	P.	B	. B	
Additional Error Info	rmation (AMK Service)		Mu.	"Tru,	The state of the s
4-	1/2	RESERVE	de	da	4.
Error removal			7		2

4.3 No. 768 ... 799 Database

Device					_
Description	10,3	100	10.3,	12). ? }
Class	A. A. C.	Sales .	Nagara and American	Nat Salar	
Drive Behaviour	110,	70,	To.	70	
Device Behaviour	System run-up aborted	'92 ₀	'92.00	1900	
Additional Error Infor	mation (AMK Service)	12,		74,	727
13	21	Inadmissible state DTH		24,	14
Error removal					_

 Check paralle 	I EEPROM on the control	board		
Device	The state of the s	224	The state of the s	77,
Description			-	-
Class	9	9	9	9
Drive Behaviour	"Tha"	The.	"No.	Tho.
Device Behaviour	System run-up aborte	d	-Cign.	The state of the s
Additional Error Info	rmation (AMK Service)		io.	The State
(2)	1000	Timeout PEEP	.89	· Co
Error removal	The state of the s	The state of the s	- Na	The same of the sa

772 System diagnostics

Check parallel	EEPROM on the contr	rol board		20		gill.		
Device	9	101	200	C.	101		8	2/
Description	.80	300	1000		7000		100	
Class	14/10		14/10		"Ayles		41/0	
Drive Behaviour	2/10		274		Mr.		20,	
Device Behaviour	System run-up abou	rted						
Additional Error Inform	nation (AMK Service) 35,5		3.2		.3.9		
30/2	Side.	Handsha	ke PEEP	201		Siche .		
Error removal	5	, of	x d	Sec.	70%		y(?(r)

773 System diagnostics

. 19	. [4]	. 19		- 19	. 19
 Inadmissible d 	atabase order				
Device	9	9	9		9
Description	Tho.	Mrs.	Thou	.3	to.
Class		The same	The same of the sa	"Ing.	
Drive Behaviour	200	9	200	alite	allie
Device Behaviour	System run-up aborted	i	(9)	(9)	(9)
Additional Error Infor	mation (AMK Service)		120	THE.	THE.
4.	3	4		4-	4.
Error removal	A		7		À

7000	70%	20%	5	70%	70%
Device	'TI'	"My Loo		14/10	" Splin
Description	20,	200		th,	20,
Class					
Drive Behaviour		4.2	. 3.2		,
Device Behaviour	System run-up aborted	To the	27/2	17	
Additional Error Infor	mation (AMK Service)	(1)	,off'	, of the	70%
2000	2082	DEALLOC faulty	80	.10 ²⁰	7040
Error removal	System OFF/ON, (HW re	eset)			M10



 ID not support 	ed	(4)		(60)	. SQ	, <u> </u>
Device	KE	220		The state of the s	220	Tales,
Warning: ID ac	ccess faulty on	read or write				
Description		9	6.		6	. 6
Class	- A.	D	"This."		The.	"Tho.
Drive Behaviour	200		Min		U.S.	Mar.
Device Behaviour	System run	-up aborted	170	200		ALIE CONTRACTOR OF THE PROPERTY OF THE PROPERT
Additional Error Info	rmation (AMK	Service)		. (6)	(6)	30
3	72.	144		1444	7412.	"Under
Error removal		4		4.	4.	4.

776 System diagnostics

Device	7000				
Description	4	74/2	THIS STATE OF THE PARTY OF THE	" My	24/2
Class		24,	27,0	2/2	27,
Drive Behaviour					
Device Behaviour	System ru	n-up aborted		3.5	3.5
Additional Error Inform	mation (AMK	(Service)	3.	14.	
*OL,	201	100	70,	70K.	
Error removal	C. C.	oarameters: 32813 ID32820 Parar	neterser assignment 1	8	N. S.

777 System diagnostics

Check parallel I	EPROM on the control	board	"Tho."	Tho.	
Device	The same of the sa	M. B.	The same	The same of the sa	
Description	No.	William Control		2/1/0	
Class	S.	(0)	(1)	(1)	35
Drive Behaviour	- 120	Total Contract of the Contract	Thu.	Ma	11/10
Device Behaviour	System run-up aborted	t			
Additional Error Inforn	nation (AMK Service)	9	9	9	
W.	743.	Overflow PEEP	W.	"Tho. 4	
Error removal	C. D.	Car.	Kar.	Car.	

 The attribute o 	f the selected data block is wr	rong			
Device					
Description	7.8°C	79.5	195.		5,
Class	217	257	-177	24	
Drive Behaviour	201	, OT	70,	70%	
Device Behaviour	System run-up aborted	587	.X822	10 ² 0.	2
Additional Error Infor	mation (AMK Service)		7/1/2	''4' _' 'S	"This
200	The state of the s		112,	2/2,	Ma
Error removal					

The maximum	value of the last changed param	neter was exceeded	770	700
Device	KE	Tales.	The same of the sa	The state of the s
	ie was exceeded 170, 'Setpoint DC bus voltage', is	higher than 720 VDC	2	
Description	12 No. 12	2.X	10,7	
Class	The Care		Nation of the same	A.
Drive Behaviour	10,	770	740	10
Device Behaviour	System run-up aborted	. 20°	1900	- 90,0
Additional Error Info	mation (AMK Service)	74,	741,	741
12,	27	11,	12,	74
Error removal				

780 System diagnostics

The minimum v	alue of the last changed pa	rameter wa	is not reached	Pagne.	Ngjur -
Device	'71' _[O]		71.02	"Y;Q.	"4' ₁₀
Description	27,44		112,	N _L	No.
Class					
Drive Behaviour	2	20,		Š,	20
Device Behaviour	System run-up aborted	"She	-3h	7	:3/6
Additional Error Inform	mation (AMK Service)	0	Office	. 6	100
~9 ₂	200		WHILE .	79JZ	7,117
Error removal	77,00,		7/0),	7/0,	71,00

781 System diagnostics

 It was attempte 	ed to write a list which	ch can only be re	ad	16.4		150.4	
Device	Sept.	N. S.		No.	J.	1900	26
Description	Ó	7/0	_3	10,	-310		7/10
Class		900	.700		1900		190
Drive Behaviour	nt of		Major		My.		Tay.
Device Behaviour	System run-up a	borted	20		10.		21,
Additional Error Infor	mation (AMK Serv	ice)					
10 X	73.5	10%		73.5		73.5	
Error removal	Sec.	Naged.		V91A.		ga.	2

4.4 No. 1024 ... 1119 Central Computer, Hardware

 System fault in t 	the control board area			
Device	Fig.	Viley.	Vile)	
Description	2	10	110	70
Class	.200	.800	1200	.200
Drive Behaviour	241	Thy.	74/	" Inji
Device Behaviour	System run-up aborted	11"	11.	27,
Additional Error Inform	nation (AMK Service)			_
7.9.Z.	7.9%	Inadmissible state in AZ graph	V	*·5,
Error removal	*8.77°	"HALL "HALL"	197	



(3)		(0)		
Device	The state of the s		74.	No.
Description				
Class	3	6	6	8
Drive Behaviour	"Th3."	"H3.,	7/2	Mo.
Device Behaviour	System run-up aborted	The same of the sa	T. S. C.	-C.D.
Additional Error Infor	mation (AMK Service)	270	21/0	770
71 ₂		(only AZ SEEP).	error in the serial EEPRocked during system initia	Thy.
Error removal	Recheck parameter: • ID32901 Global	service bits	Mr. ij	17/K2.[t]

1026 System diagnostics

 Error on writing t 	the serial EEPROM				
Life on writing	aro coriai EEI Trom				
Device	20		14	10,	2,
Description	2	2		<u> </u>	2
Class	10.7	127		127	10.7
Drive Behaviour	Carlo.	VIII.	, di	7.00	3
Device Behaviour	System run-up aborted	10,	10	10	
Additional Error Inform	nation (AMK Service)	000	.800	.80°	5.
	124		" April	"Tay,	727.
Error removal	2/2		27.	2,	27

 Data error in th 	e EPROM			6	Co
The checksum	is checked during sy	stem initialization			
Device	KE	71/0,	750.	77,0	45
Checksum flas	h memory	The same of the sa	21/1/2	No.	The state of the s
Description					
Class	9		3	9	- Q1
Drive Behaviour	20/Lo	The same		. A.	2014
Device Behaviour	System run-up ab	orted	25		Co
Additional Error Inform	mation (AMK Service	:e)	Zalli.	~gills	
C),	7 (2),	770,	77/07	77/02,	
Error removal		The same	72/4	THE.	The.

Device	Controller AS	2	The same of the sa	744	The.
RAM memory	error option module (In	fo: option place 1 o	r instance)		
Device	KE 🁌	6	6		9
RAM memory	error	"The	The same	. A.	0
Description	- C. C.	Mile.	The same	The same	
Class	700	200	-3/10	- 3/10	- 2/2
Drive Behaviour	(0))	(0)	(0)	(0)
Device Behaviour	System run-up abou	rted	T. Jan	" The	Ma
Additional Error Info	rmation (AMK Service)			-
9	9	9	6		9
Error removal	10.	16.	10,	74	9.0

1029 System diagnostics

 Data error in the 	ne parallel EEPROM	74/2	24/2	" Tyle
 The checksum 	is checked during system initializatio	on 👫		
Device	AZ			
Check can be	switched on/off through ID 32901	79'5,	10	8,
Description	(1 ₂)	797	71/4	
Class	(0)	101	101	101
Drive Behaviour	2000	7000	70%	7000
Device Behaviour	System run-up aborted	74/10	"My.	"Williams
Additional Error Infor	mation (AMK Service)	270	24	N.
Error removal	2,	2,5,	. 0	5,

1030 System diagnostics

 Error on writin 	g the parallel EEPROM		7/02		3	79
Device	720		" Alla	"Tale		"Tale
Description						
Class	9	9		9	9	
Drive Behaviour	The.	Tho.		Tho.	Mrs.	
Device Behaviour	System run-up aborted	Co.	_6	(Dr.)	The same	26
Additional Error Info	rmation (AMK Service)	,	allie.		alife.	allic
, db.	. 300		.00		9	.00
Error removal	The.	•	The same	No.		The.

Control panel do	es not report on initializatio	n All		
Device	101	.101	10	10
Description	No.	700	'Aga,	1000
Class	74/2	74/2	74/2	"Up"
Drive Behaviour	200	44.	21/4	M.
Device Behaviour	System run-up aboThe serial interface	rted to the control panel is switch	hed over automatically to	SBUS protocol
Additional Error Inform	ation (AMK Service)	A. State	Pig	2
S. 20		10°C	100	70%
Error removal	70/27	,10 ⁷⁰	\$0 ⁸⁰	2022



 Reception error 	or from the serial interface	10	700	7700	3
Device	AZ	19	72,	777	244
 Overrun, parity 	y, see AZ-R01 serial inter	face X77			
Description	6	6	6	6	
Class	"Tho.	"Tho.	7/20	"Tho.	
Drive Behaviour	all an	Maria	ALO.	Mar.	
Device Behaviour	System run-up aborte	d N	21/10	- Alle	
Additional Error Info	rmation (AMK Service)	(10)	190	1/42	30
	72	120	7474.	744.	Thu.
Error removal	4.	_	4-	4.	

1033 System diagnostics

Reception error	or from the serial	interface 2	100	101	
Device	AZ		.202	No.	
 Overrun, parity 	, see AZ-R01 se	rial interface X77	24/2	This is	247
Description		2/1	27	27,	27
Class					
Drive Behaviour	38		9'6.	19.5°	35
Device Behaviour	System run-u	p aborted	35		
Additional Error Info	mation (AMK Se	ervice)	10	705	
.10 ²⁰	2000	702	70/20	72/2	
Error removal	41. C	41/2	77/0	W. Co	31

1034 System diagnostics

 Time level overf 	low					
Device	KE		Mis	N.		M. Co.
Description	-970		200	-972		200
Class	(0)		(0)	700	700	.3
Drive Behaviour	Drive runs	down		7410.	The state of the s	242
Device Behaviour				-	-	
Additional Error Inform	nation (AMK	Service)	6		9	6
Mo.	Info1	1	Watchdog res	set	Hs.	1/2.
No.	La.	2	Time level over	erflow 62,5 µs	01	Car.
Nico.	all Co.	3	Time level over	erflow 250 µs	à	200
Op.	90.	4	Time level over	erflow 500 µs	(g)	.3
" The		5	Time level over	erflow 1 ms	Also.	Th.
A.		6	Time level over	erflow 10 ms	1/2	100
Error removal	• Ext	ernal fault, sy	stem OFF/ON,	(HW reset)	2	2

Device	4					
Description	3	La.	27,	2/4		27/4
Class						
Drive Behaviour	Drive runs down	~25		3.5	28.5	
Device Behaviour	44	-2/2/		24	25/2	
Additional Error Infor	mation (AMK Service)	,off	200		xoll.	
70 ₂₀	2000	Timeout BAV,	no acknowledge	ment after 60 s	10/20	
Error removal	System OFF/ON, (H\	N reset)	7,0		(0)	- 4

Fault	300		30	8	197
Device	KE	Tales.	The state of the s		THE.
Description	Program stack overf	low	-		
Class	9	9	9	9	
Drive Behaviour	Drive runs down	Tho	"The	"This."	
Device Behaviour	-C	Man,	Con.	W. C.	-8
Additional Error Infor	mation (AMK Service)	The state	,	770	allie
. Ob.	190	Program stack overflow	v 💍	5	. 600
Error removal	System OFF	/ON, (HW reset)	Trans.		The state of the s

1037 System diagnostics

1910).	7.9 _{1.7}	¥9,00	Á	7,
10	10	10	10/	10
.83	P	.30	100	1200
24/2		24.	This section	74/2
Drive runs down	7,	7	11,	2/1,
rmation (AMK Service) 388	S. (1)	3.0,	J. 8
29,	System stack	coverflow	á	4
System OFF/ON, (H	W reset)	105	201	70%
	rmation (AMK Service	rmation (AMK Service)	rmation (AMK Service) System stack overflow	rmation (AMK Service) System stack overflow

1038 System diagnostics

 Fault 					
Device	9	9	9		9
Description	The.	The	"Tho	"Ho	
Class	3/10	ACC.	N. S.	ALCO.	200
Drive Behaviour	Drive runs down	.,,J.C		-3/10	
Device Behaviour		3	(4)	7(0)	300
Additional Error Inforn	nation (AMK Service	e)	744.	Thu.	Ma
-		System star	ck underflow	4	4
Error removal	System OFF/ON, (H	HW reset)	9		9

 Faulty memory initialization 	access of the process	or. Software r	eset is triggered. The	e error is displayed	in the following
Device	May		77,72	Tr.	722
Description					
Class	20	20		2	20
Drive Behaviour	Drive runs down	25/6	1/2%		and the same of th
Device Behaviour	300	-010°	-01T1°		- 10°C
Additional Error Infor	mation (AMK Service	Par	79 ₇₇	~31J	~8 ₀₀
77,00	7/0		710,	77,00,	71,00,
Error removal	System OFF/ON, (H	W reset)	May.	2121	May.



1041 External Line Over Temperature

F	of a warning time as consequence of the warning on for 60 s after withdrawing the controller enable		
Device	AZ	-20	-24
Temperature en Occurs after end	or AZ of the warning time as consequence of the 4 war	nings 1073, 1074, 1075, 1076	3
Description	-C. 20	- King	
Class	Error	"ILC.	
Drive Behaviour	Controlled braking	S. S.	
Device Behaviour	We. We	. All	all a
Additional Error Inform	nation (AMK Service)		4.
8	3 3	8	4
Error removal	Mo.,	Mo.	75
Device	KE	Kig., Kig.,	
Description	"No. "120.		
Class	Error	Š (Š	2
Drive Behaviour	Controlled braking	'CH'	"May
Device Behaviour			
Additional Error Inform	nation (AMK Service)	6	3
Valdy	Info1 0 Over-temperature braki ITE intern > 1.7 V, ITE (i		*
Error removal	70, 70,	16,	
Over temperatur	re mains filter / transformer inverter (n)	1200	16
Device	ZWR	7	10/10/10
Description	Over temperature mains filter -Y1 or / and transfo	ormer -T1	4
Class	Error	- 6	3
Device Behaviour	Automatic error reset and switch back on	76,	
Additional Error Inform	nation (AMK Service)	This is	
700	-4200	- Alle	
Error Removal	 Check mains filter -Y1 Check transformer -T1 Check cooling system 	Man Marie Constitution,	Maril.
182	Check fan of mains filter Check wiring		

1042 'Mains phase fault'

	of one or several phases (external fuse defective (failure >= 100 ms)			
Device	AZ			
Description	(D.Z.	19.P	79.5	
Class	Error	212	200	
Drive Behaviour	Controlled braking	100	10	
Device Behaviour	700	70/2	700	
Additional Error Info	rmation (AMK Service)	"Myles	'A1'	· A
22	272	Ma,	M.	27,
Error removal	 E loop ES1-ES2 separated Fuse F7 or F8 defective (ne Check terminals X1, X6, X2 	ew mains modules)	=)	



Device	KE		Nig.	VIG.	Vigo,	
Description	3	75	25.	10	10	110
Class	Error	1200		.70%	.150	1000
Drive Behaviour	Controlle	ed braking	3	47.	247	24/2
Device Behaviour		2/2	27,		1/4	21/2
Additional Error Inforn	nation (AM	IK Service)				
Undaly to St.	Info1	1	within 23 ms n		75 % of the line volta status (i.e. three-pha	
Tiqham.		2	_	e main contactor < ns past UE = 1)	75 % of the line volta	age (BNX2)
Nega.		3	Error in detect	ion of phase-sequ	ency	920
		4	Error mains fre	equency		
9,	9	5	default	6		9
Error removal	7/2 C	Check terminals	s X01 and X20 a	nd external wiring	34	Ø.,
Phase failure in	verter (n)		A. C.	- OLIGANI	-01/g	
Device	ZWR	79 ² 2		China and a second	7000 T	1000
Description	Phase fa	ilure single-ph	nase or multi-pha	se in the charging	circuit	77.00
Class	Error	21/2	11/2		7/2/2	11/2,
Device Behaviour	Automat	ic error reset a	nd switch back o	n		
Additional Error Inforn	nation (AN	IK Service)	20	20		* 'S'
tol.	Sigle.		201	19/4	1616	
Error Removal		Check charging Check main fus	g circuit fuses -F7 e -F1	7 / -F8	'Palifolis	:chilor

1043 Line Voltage Error

 Line voltage d 	ependent on unit	outside the tolerance	range	9	
Device	AZ	"The	Mr.	The.	
 Occurs after th 	e end of the warn	ing time (currently 4 s) a	as consequence of the 2	2 warnings 1077, 1078	
Description		-2/2	- SINC	-3176	
Class	Warning mess	age, reaction of drive at	fter 4 seconds	7(0)	300
Drive Behaviour	Controlled bra	king	The state of the s	and a	The same
Device Behaviour		-			
Additional Error Info	mation (AMK Se	rvice)	9	9	
The.	"Its.	Mrs.	The.	743.	
Error removal	T. Carrie	-4/2r.,	-War,	-C.	_6

USV voltage >	30 v	77,0),	32.	2),	770	77(0),
Device	IDT	WH.	My	25	44	My
Description	6		6	9	9	\ .
Class	"This		The .	"The	The	
Drive Behaviour	300	-C ¹	2.	all a	-Car	
Device Behaviour	O	7/20		The same	"ILC.	allic.
Additional Error Infor	mation (AM	K Service)	.35	20,	. (B)	100
"Hyp.		The same	" May	22	414	and a
Error removal		4	4			47



1044 No SBM

 Occurs if a syste 	em initialization v	vas started and no g	group ready message	was present	(3)	255
Device		THE.	744	720		The same
Description			-			
Class	9		9	9	9	
Drive Behaviour	Mrs.		15.	Mar	"This.	
Device Behaviour	System run-up	aborted	,	C. P.	T. T.	
Additional Error Inform	nation (AMK Sei	vice)	2/1/2	7	776	
900	Q.	. 35°	. B		35	- 3
Error removal	• Evalua		juration errors or hard ent error through Diag error"		8	un.
Device	KE		150,	The y	"Tho,	
Description	7(C)	W. C.	ó	C.C.	W. C.	
Class	-3/1/2	200		2		
Drive Behaviour	(0)	190	(0)		97	- 3
Device Behaviour	System run-up	aborted	744	7424.		Thu.
Additional Error Inform	nation (AMK Sei	vice)	- 12			
10.0	Info1 0	Hardwar KES mod	e Error dule without adequate	e KE-E0x	12.0	
Error removal	230	A PO	3	Vales,	N. S.	

1045 'Mains ove	rvoltage'				
Mean value of	the line voltage is abo	ove 530 V (smoothing ap	prox. 6.4 s)	No.	NA
Device	KE				
Description	28	20	20		2
Class	Error	327	all the	All Marie	
Drive Behaviour	, of the	*0[[]	,0[[]	*0[[]	
Device Behaviour	Reset of SE	BM System Ready	10/10	200	
	Main conta	ctor is de-energized			
Additional Error Infor	mation (AMK Service	e)	A.	Va.	27,20
Error removal			- 2	<u> </u>	3
Mains overvol	tage inverter (n)	79,	19,	10%	
Device	ZWR	1000	200	70f.C	
Description	(Mains voltage + 1	0 %) > ID34270 'Net volt	age'	No.	
Class	Error	The same of the sa	This.	This is	24,
Device Behaviour	Automatic error res	set and switch back on	14	22,	14
Additional Error Infor	mation (AMK Service	e)			
18.5	73.5	12.2	79.5	79.	8.
Error Removal	Check main	ns voltage	790	Sig.	
	Check trans	sformer -T1			
	Check main	n contactor -K1			

1046 'Mains undervoltage'

		go 10 0010V	v 350 V (smoothin	-9 approx. 0. 1 0)			41/2
Device	KE	-077	is.	27,	12/2		224
Description							
Class	Error		9	6		9	
Drive Behaviour	7.4. E	Reset SBM S	ystem Ready	"The		"Thou	
	- N	Main contacto	or is de-energized	I Way			
Device Behaviour	9	0)	26,	7/10	200	5,	2700
Additional Error Inform	mation (Al	MK Service)		.00	. 35		. 600
774		ala.		Age.	Trans.		"Van.
Error removal	Messag	e can be dea	activated by ID329	01, 'Global service	bits'		4,
Mains undervo	Itage inver	ter (n)	9	9		9	
Device	ZWR		A.	"Aro		dra	
Description	(Mains v	oltage - 10%	6) < ID34270 'Net	voltage'		Mis.	.00
Class	Error	200	3	70/202			1080
Device Behaviour	Automat	tic error reset	t and switch back	on	71/0		77.50
Additional Error Inform	mation (Al	//K Service)	J.	de la companya de la	The same of the sa		May
Error Removal	•)(Check mains	voltage	`\$ _,		20	
	J. (Check transfo	ormer -T1				
		Check main o	contactor -K1				

1047 Inhibit time for UE

Device	10.3					
Description	190		79,0	190	200	
Class	Ó	. 10	200	10/	10	101
Drive Behaviour		700		7000	720	702
Device Behaviour	System rui	n-up aborted		14/2	74/	14/2
Additional Error Infor	mation (AMK	Service)	3		47.	Tr.
Error removal	100		- A.	198	<u></u>	Ś
Switching frequency	uency for con	verter on (UE) is too high	120	1979	2
Device	KE	310		100	700	10
Description		(🗢)	UE within off tin C bus capacity		unt dha	"Mildho
Class		11,00	7		1/12	W.
Drive Behaviour						
Device Behaviour	System rui	n-up aborted	7.9%	195	3.0	'S.
Additional Error Infor	mation (AMK	(Service)	"ALAL	200	257	
7	Ó	28	5	100	101	10%
Error removal		70%	•	70,50	'72'52	702
Twice ON during	ng blocking-ti	me inverter (ı	n)	No.		
Device	ZWR	2,	10		14	2,
Description				À		A
Class	Error		No.	Mari	. Hz	38
Device Behaviour	Automatic	error reset a	nd switch back	on	Alaka.	8
Additional Error Infor	mation (AMK	Service)).	"IIC"	770.	~7 <u>1</u> 6.
190		1900		1900	1900	1900
Error Removal	• Oh	serve at leas	t 30 s of blockir	na-time hefore switch	ning inverter back on	'Ay.



1048 UE switching frequency too high

Device	The state of the s					
Description	Since firmware KE-E03 V2.01 2002/25 the off-time is monitored. Diagnostic message 1048 does not appear any longer.					
Class	No.x	16.X	12,	13.7		
Drive Behaviour		All Comments	Wall.	Carlo.		
Device Behaviour	System run-up aborted	25	10	110,		
Additional Error Info	mation (AMK Service)	.80	, è	lo _s .		
	(3)	74,	747.	74		
Error removal	79,70	74,	14,0	The same of the sa		

 DC bus error 	- 2/4/2		"Olle	"Office	- Alle	
Device	KE		7000 E	7905	78132	
Description	The char	ging proces	s for the DC bus does r	not run correctly	⁹⁷ (O),	.3
Class		12	100	440	21/1/1	2/1/2
Drive Behaviour						
Device Behaviour	RF settin	g aborted	2	Š	ŝ	
Additional Error Inform	nation (AN	IK Service)	-2/c	ig/c	- She	
OFFICE	Info1	1	1.8 s past ELS1: U	Z < 60 % (UE = 1)	-Ollie	
	~alle	2	1.5 s past ELS2: U	Z < 85 % (UE = 1)	~9 ₁₁ ,	
		3	3 min past UE = 0:	UZ > 50 V	7/0,	
		4, 5	Δu/Δt too small wh	ile charging	The state of the s	44
Error Removal		check device				
	• 0	check wiring				
 DC bus error 	.8	The same of the sa	.30%	20%	All Park	
Device	KU		*OLL	x0/1/2	10 No.	
Description	A	t switching-c	on of the DC bus, voltag	ge U ₇ is not reached with	nin time out	
Device	KU, KW, AZ/AW					
Description	• U	$J_Z < U_Z$ thresh	old during RF active or	RF setting	12,	274
Class						
Drive Behaviour	Motor bra		ecomes active immedi	ately. The brake will clo	se independent if the	e motor is
Device Behaviour	RF withd	Irawal	The same			
Additional Error Inform	nation (AN	IK Service)	- Sille		- Sille	
9,	(0)		(3)	70,	1600	
Error Removal	• C	heck param	eter:	744	an'i	22
			37 'DC bus voltage mo	nitoring'		
	• C	check device				
740 tj	• C	check wiring	Tho.	- A	- Jh	
Fault charging [3			.01024	
- 100		3		- Hair Ching	Nation Care	
Device	DC bus inv	erter (n)	d correctly, ΔU/Δt is too	o small		
Device Description	DC bus inv	erter (n)	d correctly, ΔU/Δt is too	o small	Mark Dation of the Control of the Co	Me
Device Description Class	DC bus inv	erter (n) s not charge	d correctly, ΔU/Δt is too and switch back on	o small	White Control of the	ni
Device Description Class Device Behaviour	ZWR DC bus inv Error Automati	erter (n) s not charge	6	o small	Marin Lagara Line	, we
Fault charging [Device Description Class Device Behaviour Additional Error Inform	ZWR DC bus inv Error Automati	erter (n) s not charge	6	o small	Wall Datio Lington	10°

1050 Phase error L1

Device							
Description				*	-		
Class	9		9	9	9		
Drive Behaviour	Motor brake control becomes active immediately. The brake will close independent if the motor is stopped.						
Device Behaviour	System run-up aborted						
Additional Error Info	mation (AM	(Service)	1900	1900	1900		
727		74,	The same	74%	22/2		
Error removal	• Lir	ne connection L1,	L2 or L3 at X01 not cor	rect	29		
	 Connection L1.2, L2.2 or L3.2 at X06 or X26 not correct 						
	• Ch	neck fuse F1, F2, F	3 or F4, F5, F6				

1051 Phase error L2

Device							
Description							
Class	20		, (s)	20	20		
Drive Behaviour	Motor brake control becomes active immediately. The brake will close independent if the motor is stopped.						
Device Behaviour	System run-up aborted						
Additional Error Infor	mation (AM	(Service)	, do	. 6		. 600	
The state of the s		12/2	12/1/4	The same		"Han.	
Error removal	• Lir	ne connection L	1, L2 or L3 at X01 no	t correct		4.	
	• Cc	nnection L1.2,	L2.2 or L3.2 at X06 o	X26 not correct			
	• Ch	eck fuse F1, F2	, F3 or F4, F5, F6				

1052 Phase error L3

There is an err	or in the AZ power feed because of a faulty connection or fuse defect
Device	the the the
Description	
Class	185, 185, 185, 185, 185, 185, 185, 185,
Drive Behaviour	Motor brake control becomes active immediately. The brake will close independent if the motor is stopped.
Device Behaviour	System run-up aborted
Additional Error Infor	mation (AMK Service)
No.	The The The The
Error removal	Line connection L1, L2 or L3 at X01 not correct
	 Connection L1.2, L2.2 or L3.2 at X06 or X26 not correct
	• Check fuse F1, F2, F3 or F4, F5, F6



1053 Phase sequence L1/L2

Device	AZ						
Description							
Class		9	9		9	9	
Drive Behaviour	7	3.	. No		Mr.	Mrs.	
Device Behaviour	System run-up aborted				(Dr.)	The same	
Additional Error Inform	nation (AMK	(Service)	770	all o		NILO.	
90,	90	183	,-	. 60	. 8	300	
Error removal	• Fus	oop ES1-ES2 is se F4, F5, F6 def se F1, F2, F3 def connection at X	ective fective	Man.	Jold Mark	30,	No.
	• No	connection at X se F7, F8					

1054 Phase sequence L1/L3

Connections of	of the correspon	iding phases	are confused at th	e terminals	N.	274
Device	AZ					
Description		,S,	7.9%	13.5	79%	
Class	24		24	29	24	
Drive Behaviour	201		*QL.	70,5	205	
Device Behaviour	System run-up aborted			.10%	1000	
Additional Error Info	rmation (AMK	Service)	9	11/0	71/2	- 24
1/2	200	774		11/4	114	274
Error removal	• E loc	op ES1-ES2 is	s open			
	• Fuse	e F4, F5, F6 de	efective			
	• Fuse	F1, F2, F3 de	efective			
	• No c	connection at	X03, fan bus			
	• Fuse	e F7, F8				

1055 Phase sequence L2/L3

Device	AZ		. No.,	Mo.,	
Description	200		Ugg.	Car.	
Class	Wille.	270	7/10	27/0	
Drive Behaviour	900	P. S.	900	(A)	. <
Device Behaviour	System rur	n-up aborted	The same	71/27.	The same
Additional Error Inform	mation (AMK	Service)	1/2	4.	4
Error removal	• Fus • Fus • No	poop ES1-ES2 is open se F4, F5, F6 defective se F1, F2, F3 defective connection at X03, fan bus se F7, F8	alidhallomabka si	"idparpurghkath	-2'

1056 'Mains phase sequence L1, L2, L3'

 Connections of 	f the corres	sponding phas	ses are confused a	at the terminals	200	197
Device	AZ	The state of the s	12	120	The same of the sa	The same of the sa
Description			- 1			- 4
Class	9		9	9		9
Drive Behaviour	Thou		"The	7/2.	L.	F.D.,
Device Behaviour	System	run-up aborte	d	-U.S.	- Car	-6
Additional Error Infor	mation (A	MK Service)	60	2/2/0	770	"Ile
1900		(9)		. 650	. 60	. 400
Error removal	•	E loop ES1-ES	S2 is open	140.	Tru.	No.
	•	Fuse F4, F5, F	6 defective			
	•	Fuse F1, F2, F	3 defective			
	160.1	No connection	at X03, fan bus			
	Section .	Fuse F7, F8				
Voltages in fro	nt and beh	ind the main c	ontactor are differ	rent	7/10.	7/0
Phase is missi				(90)		
Device	KE	474	No.	147	20,000	The state of the s
Description		-64	16	·	-19	-1/2
Class				<u> </u>		<u> </u>
Drive Behaviour	160		150 /5	150/2	>	(B)
Device Behaviour	System	run-up aborte	d.	7.50		
Additional Error Infor		•	(b)			
720		190		1200	1200	1900
Error removal		44	- 1	14,	The state of the s	The state of the s
Fault main cor	tactor invo	rtor (n)	4/2		2),	2/2
Device	ZWR	rter (II)				
0.0	X		- 4	(04.1.4.4/1.0.4/1.0.4	:- f Lfl	t t ON
Description	Phase s	sequence at th	ie terminais -U1.X	.01:L1.1/L2.1/L3.1	is faulty after main o	ontactor ON
Class	Error		000	707	107	70%
Device Behaviour			and switch back o	on was		
Additional Error Infor	mation (A	MK Service)		, th. (C)	- A. P.	W. Carlot
200		The same	The state of the s		M.	No.
Error Removal		Check main co				
		Check mains f				
	. 05.	Check mains of				
	0		ım mains choke -l	-1 ₂₀ 15		
	•	Check wiring				

1057 Fault +12 V

Device	Ma.					
Description	The same of the sa	Mar,	The state of		Sec.	-
Class	, C	20.	270	17/10.		Nico
Drive Behaviour	Drive runs down		92,	(1)	5)	800
Device Behaviour	Th.		My.	7/4.	The state of the s	
Additional Error Info	rmation (AMK Service)		10	12,	12	
<u> </u>		2		<i>\</i>	À	
Error removal	7.9.3	7.9%	13	X	19.X	



1058 Fault -12 V

Internal supply	voltage -12 V is out	side the permitted limit	300	(0)	30
Device	24	The state of the s	22,	The same of the sa	244
Description		-			
Class	9	9	9	-)
Drive Behaviour	Drive runs down	The	The same	"The	
Device Behaviour	-C.S.,	"Algo,	-Kgr.	-Ug,	
Additional Error Infor	mation (AMK Service	e)	"III"	2/2/0	
900	900	. 800	. 000	. 00	
Error removal	720	ala.	The same	West,	"The

1059 DC bus ove	rvoitage		13.5		13.2	13.5	
 DC bus exceeds 	s permissible max	imum va	alue. Regenerativ	e overload	ig,	30	
 Generatoric ove 	erload						
Device	7000		70gg	7025		X67°	,
Description	100	4	(9)	4/100	"A)	9)	41
Class	Error	77.0		27,0	71,0		274
Drive Behaviour	Drive runs dowr)					
Device Behaviour			20,0				
Additional Error Inform	nation (AMK Serv	ice)	27	8	d'e	700	
,0/1	*OLL		× of	, of		*0[
Error removal	Check m	otor pai	rameterization	20/20		1030	
67	Check co	onnectio	on at external brak	king resistor			
Device	KE	20		21,00	13		27,0
Description							
Class	Error		7.9.5		7.9%	198	
Drive Behaviour	Drive runs dowr	1	200		ig.	200	
Device Behaviour	×0,000		x010	707		305	
Additional Error Inform	nation (AMK Serv	ice)	70%	.1075		3080	
50	100	4	BZO (HW)	410	- A1	9	41
10,00			from version 206	6 2004/37			
			recognition by Il	JZ			
Error removal	20		28		~3,	~ Q	
DC bus overvolt	tage inverter (n)		296	, ci	d	290	
Device	ZWR		KOT	10%		10/1	
Description	UZ > 900 V		De.	197	,(102	
Class	Error	- 62		" Vary	'7 ₂₁ ;		The same
Device Behaviour	Automatic error	reset ar	nd switch back on	1,	171		10
Additional Error Inform	nation (AMK Serv	ice)					
NO.S.	12 S		73.5		779.Z	108	
Error Removal	Check vo	oltage o	f PV field	_2	e.	30	

1060 Regeneration fault

D. 1		-14,	14,	- 197		
Device		-620	-100			-7 _{2,}
Description						
Class	Error		<u></u>			
Drive Behaviour	"The		The same of the sa	The same	"This	
Device Behaviour	Co.		all or a second	0	all'o	
Additional Error Info	rmation (AM	K Service)			all Comments	
		.(0)		<u></u>	8	
Error removal	• L	oose power	terminals			
	• P	ower defect	t, check line voltage system			
	• R	ead out add	ditional info with F2 key			
Way.	Yo [™] T	he diagnost	tic message can only be rese	t by power supply	OFF/ON	
Device	KE		~(C ₁₀)	(6)	"(Ligh)	
Description	20	ó	lic.		Mic.	all a
Class	Error	.(6)		5,	8	.00
Drive Behaviour		" delay.	11/2,	12/2		124
Device Behaviour			- 5	-29		
Additional Error Info	rmation (AM	K Service)	<i>A</i>	8	À	
The same	Info 1	1	Short-circuit of the mains	s inverter BPH (HV	<i>J</i>)	
	ro (tip)		Interrupt (< 10 µs) regen attempted	eration is stopped	and after min. 1	0 ms new sta
200	2,	3 👋	Wrong state of switching	pattern of IGBT (S	(W)	70,00
		5	Switching pattern of IGB			
		474	Regeneration is stopped	.79	` '	empted
		9	New start of regeneratio			
	25		Error message after 3 s	, g		
Error removal	20 € E	rror can be	cleared once	Signer Comments	20/2	
Fault line rege	eneration inv	erter (n)	701	Ç0	*0	X
Device	ZWR	705)),),	3	200	70,00
Description		ible high cu	rrent in the regeneration path	1 -244.°	2	7410
Class	Error	40.0	- 10.	200		- da.
Device Behaviour		c error rese	t and switch back on			
Additional Error Info	637		10 ^N	70 ⁻⁵	12 ²	
- CONT.	200		(80)	30V	200	
	4		(C)	1	A.	

1061 Braking transistor fault

 Inadmissibly hi 	gh current in the	braking transistor	795,		
Device	319	-112/	-27-27	29	
Description	Ó	10/1	705	10/	10,5
Class	Warning	7000	10g/	7000	7032
Drive Behaviour		7/1/2	34.00	M.C.	41,100
Device Behaviour	79	20	200	21,2	20,
Additional Error Inform	mation (AMK Se	ervice)			
20	20	20	25	20	
Error removal	Wrong	g braking resistor valu	e and	I THE	
Device	KE	10	10/10	TO THE	100
Description		70,00	70,00	YOU'S	700



Class	Error	34.	VII.	VIII.	Viga.	
Drive Behaviour	100		10	10/	100	
Device Behaviour	70,00		700	700	.XXX	
Additional Error Infor	mation (AM	IK Service)	74/13	This.	"141.	747
No.	Info 1	1 4	Reset by RBR p	ulse not successful (s	system run-up)	27
		2	Short circuit bra	king chopper, BBR (H	W) (62.5 μs)	
795		3	Braking transisto	or does not switch off	(62.5 µs)	
Error removal	• 5	rror can be	cleared once	201	Pip	

1/2	Nu.	17	77	714
Device				
Description	9	9	9	9
Class	The.	The	The	"The
Drive Behaviour	Controlled braking	Mich	74.0	W.
Device Behaviour	System run-up aborted	2/1/0	2/10	
Additional Error Infor	mation (AMK Service)	22,	(9)	(0)
	The state	Consequential error,	DRV -> GRF at BAV faul	ty
Error removal		-	-	4

1063 Encoder Signal

 Encoder monito 	ring has res	ponded				
Device	900		100	1900	190	
Description			ne connected enco	der are not correct lisconnected	May	and a
Class						
Drive Behaviour		19.S.	188	198.	A.	75,
Device Behaviour	System ru	n-up aborted	"AGL	200	J. Park	
Additional Error Inform	nation (AMK	(Service)	101	70,0	10°C	
70 ₂₀	7089		Consequential e	rror, Err Sgrf, system g	raph	
Neg State	Info 1	8	IDT-B-encoder - Faulty activating	Timeout for the comma	and "Enter deep low p	ower mode
Error removal						
Device	KW-R03	fa _G ,	740.0j	.46. _{0,}	. A. C.	⁷ 6,
Description	-0/1/0		-0/1/2	-01/3-	- 0/1/2-	
Class	~80°		7932	79 ₀	797	
Drive Behaviour	10	. 13	(9)	7/0,	77.00,	-1
Device Behaviour	System ru	n-up aborted		77,00	7/1/4	77.72
Additional Error Inform	nation (AMK	(Service)				
12.9	Info 1	12		SGRF → ACC-BUS ca ot available or BUS dis		operationa
Error removal	-7/2		-Car	To a	76/20	
Device	KW-R05, IDT5 KE10-VAI	-R06, -R07	¹ Ap _{toric}	HAM I GEORGE	MAN GALLIA	
Description					-	
Class		9	6	9		9
Drive Behaviour	L.	E.	Mrs.	Mrs.	-X	>
Device Behaviour	System ru	n-up aborted	all in	The state of the s	The state of the s	
Additional Error Inform	nation (AMK	(Service)	all le		NINO.	
(d)	Info 1	13	IDT-C-encoder c	annot be initialised	(1)	
Error removal	4	- 24	V*	74.	72,	72

Device	KE		71 ₂₀ ,	Valed.	
Description	0,	. 10	100	10	10
Class		7000	100	. 12 ² 0	1900
Drive Behaviour		"A12.	The state of the s	''A _I ''.	74/12
Device Behaviour	System r	un-up aborted	27	Ma	27/2
Additional Error Infor	mation (AM	K Service)			
796	Info 1	0	Wrong state S-graph	5,	⁹ '5,
201	ich	1	Timeout 2 s checksum	16.	
X	of C	2	Wrong state checksum	70/	70,
2000		3	Timeout 2 s wait	1675	2082
		4	Wrong state wait		1/10
2/1/2		5	Timeout 2 s Set_Bus	No.	200
		6	Timeout 2 s SetIDParam		
20,	20,	8	Timeout 2 s SetSEEP1Param	3,	'S.
20/10	The same	9	Timeout 2 s SetCountParam	Page	
Z.	300	17	Error in diagnostics (subseque	ent error)	.6
(g)		18	No acknowledgement from dia (timeout)	agnosis 1 ms task and	10 ms task after 2 s
Error removal		1200	The state of the s	'Thu	11/4

200	200	727	73/2/2	78/2	
Device	(0)	10	105	.101	10
Description		7000	7000	7000	1000
Class		THIS STATE OF THE PARTY OF THE	74/1	"Hi	74/2
Drive Behaviour	Controlled Br	aking	27.	M	27,
Device Behaviour	System run-u	p aborted			
Additional Error Infor	mation (AMK Se	ervice)		5,	S.
34	201	Conseq	uential error, Err Rgrf,	controller enable graph	
Error removal		modules with interrent en X133 and X19	nal overvoltage protec	tion and brake device te	st the wiring

Device	Max.				
Description	Ser.	May .	N. S.	100	,
Class	20	"A ₁₀ "	"Z _O .	"Jio.	310
Drive Behaviour	Motor brake contr	rol becomes active immedia	ately. The brake will	close independent	if the motor is
Device Behaviour	System run-up ab	orted	27,		11/2
Additional Error Info	rmation (AMK Service	ce)			
				200	
Error removal	Recheck p	in contactor activation parameter: 32837 DC-bus monitoring	BHOLIGICAL.	"altomatel"	'salitor



Device	KU, KW, RM	The same of the sa	72/2	744	7474.
Motor energiza	ation not possible		4	4	-
Device	AZ, KE	9		9	9
 DC bus under 	voltage	. The.	"Mo	,	Tro.
Description	all ar	Mr.	W. Carlot	200	
Class	- SINC	3/10	all to	allie	
Drive Behaviour	Controlled braking	1 (6)	(0)	190	3
Device Behaviour	System run-up abo	orted	The same of the sa	"This.	7474.
Additional Error Info	mation (AMK Servic	e)	4.	4.	4.
9	9	Consequentia	al error, DRV -> AW mo	odule faulty, BES miss	sing
Error removal	Mo.	They.	The state of the s).X	Though.
Device	KE	100	"Ulg"	200	
Description	"Ile,	100 m	No.	Jile.	
Class	(8)	(4)	(%)	792	3
Drive Behaviour	7.	720,	720	Thu.	Thu,
Device Behaviour	System run-up abo	orted	- 3,5		
Additional Error Info	mation (AMK Servic	e)	,	9	9
Taidha.	Info 1 0	10.7%	ge about 13 % of max. ve up to SW KER3_20	- · ·	ıs)
¹ Apr ₃ III.O	Jan	monitoring'	between DC bus voltag of DC bus voltage is filt		-
Error removal	Info1 = 0: Error car	n be cleared once	27,2	No.	27
DC bus under	voltage inverter (n)				
Device	ZWR	70 ³	N3	,3	ND St.
Description	DC bus voltage at	out 13 % of max. ma	ains voltage	, cô	9
Class	Warning	<u> </u>	7/10/	1/2/	
Device Behaviour		set and switch back of	on on	120	4
Additional Error Info	777.	4.7 "	"May"	The same	White.
47,		4	47.	47.	4,
Error Removal	Check DC Check PV			ġ.	20

Device	KU		27.,	21,	27,
BES missing in	n KU 14				
 External DC b 	us choke missing				
Description	21/2/	"Yall	_2	Ed.	374
Class	70/	101	10/1	85	20
Drive Behaviour	Controlled braking	7000	7000	70,50	
Device Behaviour	System run-up aborted	(0)	al. Co	41/2	en!
Additional Error Info	rmation (AMK Service)		21,00	No.	274
		Consequential	error, DRV -> AW	/ module faulty, BES n	nissing
Error removal	20	28		20,	28

(4)		(10)		. (S)	(42)		(9)
Device		7274	4	Ma.	The state of the s		Tala.
Description							
Class	9		8		9	9	
Drive Behaviour	Controlle	ed braking	Tho.	The state of the s		Tho.	
Device Behaviour	System r	un-up aborte	ed	Car.		U.S.	
Additional Error Infor	mation (AN	IK Service)	20.	7710.		20.	270
92,		1200	Consequenti	al error, Timeout	Err Bgrf		190
Error removal		True.		Tr.	an.		My.
Device	KE	-70	-7		- 10		-22
Description	9		9		9	9	
Class	Thou		Mr.	The.		Tho.	
Drive Behaviour	Controlle	ed braking	The same	C.S.		The state of the s	
Device Behaviour	System r	un-up aborte	ed	2/1/6	3	20.	2/10
Additional Error Infor	mation (AN	IK Service)		. 600	(1)		.00
" The same of the	Info 1	0	Wrong state	U-graph	120		Mr.
Error removal		4.	-	-	4,		4,

1069 System diagnostics

.50	.00	-000	٥٠.
3080			2070
77.5	"A'CO.	"41'O.	410
No.	212,	77,	27,
Controlled braking			
System run-up aborted	0	,Q	* 'S'
mation (AMK Service)	377	125	
Conse	equential error, Timeou	t-Err Rgrf	.x.S
	20/2	20/20	76/10
	System run-up aborted mation (AMK Service)	System run-up aborted mation (AMK Service)	System run-up aborted

FL not possibl Device	c (unicout 20 3)	- 10°,		700		70.0	
Description		Chill.	, and the second	3	8	Sept.	
Class	¹ 20		1/10		27/10		77/0
Drive Behaviour	Controlled braking		1900		GD.		.00
Device Behaviour	System run-up aborted		"Ala		" dila.		"The
Additional Error Info	mation (AMK Service)		4.		4,		4,
À	À			A			
Error removal	18.7	150.11		Tox		10.4	



	rledgement does not corresp		alue	N.C.
Plausibility mo Device	onitoring ID 32773. 13=1 is a	active	72,	72,
Description	À	À	À	À
Class	May.		- No.	TANKS
Drive Behaviour	Controlled braking	The state of the s	Car.	Car.
Device Behaviour	"Ile	770	7/20	770
Additional Error Info	rmation (AMK Service)	9,00	. B.	. Or
2	720	Special lift function "ID	32955 Delay time"	4.
Error removal	Wire break Invert	ter / Brake	4-	4.
2	 Brake defect 			
160%	 Recheck parame 	eters:		
Carlo.	• ID206 Dri	ve on delay time		
10,	• ID207 Dri	ve off delay time		

1072 System diagnostics

Device					
Description	all a	27/2	J. C.	27/2	
Class	*0LL	"OLL P.	,0/1	*O[[]	
Drive Behaviour	Controlled braking	2020	1937	200	
Device Behaviour	'W (O).	'7' ₁ 'O'	'Y'(Q)	"F(Q).	142
Additional Error Infor	mation (AMK Service)		N ₁₀	NA	27,74
		Contactor shutdov	wn monitoring in specia	l lift function	
Error removal	8	9	9	9	

1073 Cooling Air Temperature Warning

Device	AZ				
Description	The drive withd Temperature"	draws SBM and sw	itches off after 4 s and show	vs message "1041 Exter	nal Line Over
Class	Warning messa	age, reaction of the	drive after 4 seconds	⁹ 5,	19:S.
Drive Behaviour	250	Á	3, "24,	280	
Device Behaviour	701	10/1	70/	101	
Additional Error Inform	nation (AMK Ser	vice)	702	7020	
9	4.00	4/2	4/2	7/1/0	31
Error removal	1	1000	113,	10,	100

1074 External line component temperature warning

Device	~3172					
Description	The system is of the warning		4 s into error "10	041 External Line Ov	ver Temperature" after th	e end
Class	Warning mes	sage, reaction of	the drive after 4	seconds	1.	2
Drive Behaviour	2		2	λ.	Δ.	
Device Behaviour	12.		10.7	10.7	10.7	
Additional Error Info	rmation (AMK Se	ervice)	Capp.	N. S.	N. S.	
10	10	10		110	710,	
Error removal	190	'90,0		, 610°	, (<u>)</u> ()	
Device	KE	7/4,	25	4,	24	25



Description	30		Nig.	Vales.	79.0	,
Class	² 0	. 8	0,	10	10	101
Drive Behaviour		700		70,00	700	1000
Device Behaviour		14/2		- CA1/2.	"Ay's	14/2
Additional Error Info	rmation (AN	IK Service)		11,	2/2	27,2
	Info 1	0	ITE (HW), I	TE intern > 1.7 V		
Error removal		•	- 2.5			.a.S.

1075 Power supply unit temperature warning

 AZ switching po 	wer supply unit therr	nally overloaded (T _{coo}	oling circuit > 70 °C)	7/02	7/0,
	nodule does not run	000	one and a second		
Device					
Description	9	9	6		9
Class	Warning message,	reaction of the drive a	after 4 seconds	is.	6
Drive Behaviour	Co.	W.	ACC.	W.	, (C)
Device Behaviour		200	- 100		
Additional Error Inform	nation (AMK Service	9)	(0)	700	(0)
The state of the s	The.	744		7774	Thu.
Error removal					

1076 Feed / Regeneration Temperature Warning

AZ module the	ermal overload (T _{coolin}	ng circuit > 70 °C)	10	10	10
 Fan on the AZ 	module does not run	ig oncore			
Device	24,	7	"Ay	Thy.	24,
Description	27,		4.	4,	27,
Class	Warning message	, reaction of the dri	ve after 4 seconds		
Drive Behaviour	798	795	798		85
Device Behaviour	15g	20,	3101	100	
Additional Error Info	rmation (AMK Servic	e) 💍	10 T	101	70%
70/27	2	020	1000	70/20	70%
Error removal	21/2	9	7/10	71/2	71/0

1077 Line Voltage Warning

The	Mo	The.	The	"The	
Device	The same	all the		200	3
Description	The system is tr	ansferred after 4 s in	to error "1043 Line Voltage	Error" after the end of th	e warning
Class	Warning messa	ge, reaction of the di	rive after 4 seconds	727.	Tay.
Drive Behaviour	10		1, 1,	7	
Device Behaviour	System run-up	aborted			
Additional Error Info	mation (AMK Serv	vice)	10.8	70%	
190	190	Val _{ed} .	79 ₂	7824	
Error removal	(0)	10/	10,	10	30



1078 Line undervoltage warning

.07	.62	.00	100	(8)	
Device	10/1	" alapy	7/4/1	" Aleky	- 10
Description	The system i time	is transferred after 4 s	into error "1043 Line Vo	Itage Error" after the end	of the warning
Class	Warning me	ssage, reaction of the	drive after 4 seconds	NO.X	13.7
Drive Behaviour	730	- A	79	7.5	1
Device Behaviour	SBM is witho	drawn	.10	10,	
Additional Error Infor	mation (AMK S	Service)	7000	70,0	
3	77	77/2	74/23	74/2	
Error removal		New	7/1,0	2/2	The same

1079 System diagnostics

Device	AZ	797	May 1	79 ₁₇	
 "ID32773 Ser 	rvice bits": bit 0	0,	7.02	77.02,	4.5
• "ID32901 Glo	obal Service bits": bit 4				
Device	KU, KW				
 "ID32773 Sei 	rvice bits": bit 0 and bit 12	9	- Ø	3	3
	e is displayed only in an opera MK main operating mode": bit		ited external source	e of the actual position	value
Description	"ILO	"Zifo	276	776	
Class	100	90,	. B	. Po	
Drive Behaviour	Controlled braking	3	the.	2720	774
Device Behaviour		4		4.	1/2
Additional Error Info	ormation (AMK Service)	2	2	À	
10%	10,2	10,4	10,0	10,	<
Error removal	760	Nago,	190	797	

1080 OPTION 1 cf. description

 Encoder line br 	eak analysis on option care	d, input 1 slot 1			
Device					
Description		200	.,,9		,
Class	191	25/2	197	197	
Drive Behaviour	Controlled braking	, of 1	,0(1)	,017	
Device Behaviour	70 ₂₀	70%	,0 ⁽¹⁾	2000	
Additional Error Inform	mation (AMK Service)	9	21/0		45
N _{II} ,	77,2		14,	Tru,	N ₂₁
Error removal					

1081 OPTION 1 cf. description

 Encoder line br 	eak analysis on o	option card, inp	out 2 slot 1	7/10		allio.		
Device	, di	. (8)		(9)				. (0
Description		12/4		"ala,		" California		" Anger
Class		4		4		4.		4.
Drive Behaviour	Controlled bra	king	- 2		9		4	
Device Behaviour	Ma.x		140.0		143.7		143.	
Additional Error Inform	nation (AMK Sei	rvice)	May .	(Car.	, ć	20	
"Ito.	"Igo,	.3	0,	170		"Ific.		
Error removal	920	1900		'92,		1900		6,

1082 OPTION 1 cf. description

Encoder line b	reak analysis on option o	eard_input 3 slot 1	92,	.00	.85
Device	Troux analysis on opacin s	dra, inpate olet i		- 120 apr.	72/2/1/2
Description				- 1	
Class	9	9	6		9
Drive Behaviour	Controlled braking		7/2,	- 3t'	Ď.,
Device Behaviour	(10)	The state of the s	C.B.	T.S.	.6
Additional Error Infor	mation (AMK Service)	60.	~7 ₁₀	770	170
92,	'Spa		80,	Sp.	1200
Error removal	The state of the s	- May		Alan.	a _{th} ,

1083 OPTION 1 cf. description

Encoder line bi	reak analysis on option	n card, input	4 slot 1	"AGA		Sig.		- 3
Device	70°			O.	100	1		101
Description		700	,	.1000	70,50			
Class	14/2		14/10		24/2		14/10	
Drive Behaviour	Controlled braking		27,		27,		20,	
Device Behaviour								
Additional Error Inform	mation (AMK Service	13.9		13.9°				
-30°	29/2	27/		201		" AL		
Error removal	o S	, of 1		(OL)	_s ó	1		X011

1084 OPTION 2 cf. description

Device	9				
Description	"Tho."	Thomas	Mrs.	"The	,
Class	-1000.	-Cir-	The state of the s	"Car	2
Drive Behaviour	Controlled braking	6		alite.	
Device Behaviour	190		. 400	(Q)	. (6)
Additional Error Infor	mation (AMK Service)		They	12/20	7720
4			4.	4.	4
Error removal	2	2	2		À

1085 OPTION 2 cf. description

 Encoder line b 	reak analysis on option ca	rd, input 2 slot 2	70gr.	7020	703
Device	$^{r_{H_{j,o}}}$	Zi.	4/2	74/2	74/2
Description	Mr.	110		40	1/2.
Class					
Drive Behaviour	Controlled braking	J. 8.2°	J. 3.2°		78°S,
Device Behaviour	"\$ _{GAL} .	7271	-314	_	14/2
Additional Error Infor	mation (AMK Service)	200	1000	705	KOL.
1800	7020		Par	3030	7020
Error removal	74,50	2	4.0	'41' _{[O}	24/20



1	0	86	O	P.	TI	0	N	2	cf.	d	es	CI	riı	D.	tic	O	n
---	---	----	---	----	----	---	---	---	-----	---	----	----	-----	----	-----	---	---

Encoder line br	eak analysis on option	card, input 3 slot 2	. (B)	(12)	
Device	22	1200	The state of the s	774	er _{er}
Description			-		
Class	9	9		9	9
Drive Behaviour	Controlled braking	"Thou	.3	6.	743.
Device Behaviour	-C. (2)-1	400	-C.52.	-6	\$.,
Additional Error Inform	nation (AMK Service)	7/6	2/2/10	7/10	
GO.	and the second s	. 8	. 600	. 600	
Error removal	6	t _{th} .	alle.	" TIN"	The state of

1087 OPTION 2 cf. description

 Encoder line b 	reak analysis on option	card, input 4 slot 2	~ð	3,	"ALA
Device	101	101	100	. 80	200
Description	No.	7000	700	1000	
Class	44	74/2	14/10		.147.
Drive Behaviour	Controlled braking	4.	214	274	2/4
Device Behaviour					
Additional Error Infor	mation (AMK Service)	13.8			J. P.
30/2	- Side	201	-8	The same of the sa	201
Error removal	x0 ¹ 10x	,,071	,o ¹⁷⁰	χ(500

1088 OPTION 3 cf. description

	oreak analysis on option ca	ard, input 1 slot 3			
Device	9	9	9		9
Description	"Ho	"The.	To.	.34	10
Class	The same of the sa	The same	The s	My.	
Drive Behaviour	Controlled braking	NICO .		alife	
Device Behaviour	(9)	(9)	(9)	(9)	3
Additional Error Info	rmation (AMK Service)	I.	"11/2"	Ma	144
4-	4-		4-	4.	4
Error removal	À	2	7		A

1089 OPTION 3 cf. description

Encoder line b	reak analysis on opt	ion card, input 2 slot 3	3 2000	X	3
Device	4	'' M' 1/2	14/2	'Aj'	- Cap. 1.
Description		274.	21,	27,0	27/4
Class					
Drive Behaviour	Controlled brakin	g Jacob			
Device Behaviour	24	44.		219/2	25/1
Additional Error Infor	mation (AMK Servi	ce)	35	6.	301
7027	7020	1025	1080	25.	300
Error removal	4	77/50	7/1/2	74'50	al.

1090 OPTION 3 cf. description

Encoder line bre	eak analysis on option	card, input 3 slot 3	The state of	,740°,	
Device	Mrs.	M.S.	Mig	The same of the sa	
Description	allie	alle.	allie		
Class	(Q)	(1)	(0)	(1)	
Drive Behaviour	Controlled braking	t _{La}	The.	The state of the s	The.



Device Behaviour	71/2/	VI ₂	7920	
Additional Error Information	(AMK Service)	10	10	110
.20°	7000	. No.	120	.750
Error removal	24/2	This section	Thy.	This is

1091 OPTION 3 cf. description

Device	.000				
Description	30	Na _D	12 July 1	1200 E	1200
Class		7/0	70	'7' _O '	"10"
Drive Behaviour	Controlled bra	aking	24,	24,	My
Device Behaviour					
Additional Error Infor	mation (AMK Se	rvice)		6	9
"The	The	The	7/4	· 2	100
Error removal	0	40	- 60	40	2.

1092 OPTION 4 cf. description

 Encoder line breather 	eak analysis on option ca	ard, input 1 slot 4		1,	14.
Device		2			λ.
Description	10%	120.7	12.7	3	₽ ^X
Class	(3)C)	Nage,	VIII.	AND THE PROPERTY OF THE PROPER	
Drive Behaviour	Controlled braking	27.	110	110	10,
Device Behaviour	.200		.800	1900	1900
Additional Error Inform	nation (AMK Service)		7.	Thy.	24,
1/1,	37.	2,		17,	27,
Error removal					_

1093 OPTION 4 cf. description

 Encoder line b 	reak analysis on option card	d, input 2 slot 4	79 ₂₂	1237E	70 J.
Device	71,0		(0).	750,	71,0,
Description	The state of the s	71/11		The state of the s	Ny.
Class					
Drive Behaviour	Controlled braking	o di	, di		d)
Device Behaviour	Ar.	Ar.	A.	A.	9
Additional Error Infor	mation (AMK Service)	(o	N.	M.o.	200
	2000		Zalle,	- Silie	- AJJ
Error removal	300	.\	(O)	7500	300

1094 OPTION 4 cf. description

 Encoder line b 	reak analysis on opti	on card, input 3	3 slot 4				
Device	(gg)			790		7. P.O.	
Description	O,	70	Š	0,	37	2,	10
Class	,(20,0	1900		1900		900
Drive Behaviour	Controlled brakin	g	The same		741.		"Inj.
Device Behaviour	27.		24		27,		27,
Additional Error Infor	mation (AMK Service	e)					
19.5°	79.5.	73.5.		73.5.		13.9	
Error removal	1914	29,0		Sep.		SIA,	



1095 OPTION 4 cf. description

 Encoder line bit 	reak analysis on option o	ard, input 4 slot 4	(0)	(0)	35
Device	27	120	The state of the s	71/2	7774
Description					
Class	9	9	9	ò	
Drive Behaviour	Controlled braking	"Tho.	"Thou	"The	
Device Behaviour	-Con-	-Kg.,	- C. St.	400	
Additional Error Inform	mation (AMK Service)	770	7/10	N. C.	
900	800	(8)	190	. Op	
Error removal	20	12,	77/4.	Nu.	The state of

1096 OPTION 1 cf description

Short-circuit/ov	verload of the ou	utputs option card, slot 1 (e.g. AZ-EA8 or AZ-EA24	4)	
 Watchdog opti 	on error				
Device	7000	7000	702	7000	,
Description	4	" My Ja	14/10	14/100	41
Class		20,	274	774	274
Drive Behaviour	Controlled b	raking			
Device Behaviour		5,	5,	8,	,,?`
Additional Error Info	mation (AMK S	ervice)	"Ing.	"Ide	
,of .	, of C		, of '	x0 ⁽¹⁾	
Error removal	7082	2020	.1070		

1097 OPTION 2 cf. description

- 7	verload of the outputs opt ard error (HS), see ID 329	- 7	g. AZ-EA8 or AZ-EA	24)	140.01
Device	- Carlo	- Car	- Carlo		Carlo
Description	770	131°	2350	770	
Class	90,	8	. B	190	. 3
Drive Behaviour	Controlled braking	4.	44,	Mr.	Na.
Device Behaviour	- 4		3	4,	4,
Additional Error Inform	nation (AMK Service)	A		À	À
10,3	12	10.3	14	§ _X	18:4
Error removal	190	No.	790,		200

1098 OPTION 3 cf. description

Short-circuit/or	verload of the outputs option	on card, slot 3 (e.g	J. AZ-EA8 or AZ-EA2	24)	200
 Active option of 	card error (HS), see ID 329	01			
Device	J. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	13.2	- I	⁹ 'S,	
Description	24	2/2/2	1678		ich.
Class	101	707	.01	70,	
Drive Behaviour	Controlled braking	7025	1091	1090	2
Device Behaviour	A	(5)	4/0	.41.50	31/1
Additional Error Info	mation (AMK Service)		Ma,	272,	274,
Error removal	20	20		~ S)	2

1099 OPTION 4 cf. description

 Short-circuit/ove 	rload of the outputs	option card, slot	4 (e.g. AZ-EA8 or AZ-	EA24)	(0)
 Active option ca 	rd error (HS), see ID	32901			
Device				-	-
Description	9	9	9		9
Class	Tho.	. Ho.	The.		Thou
Drive Behaviour	Controlled braking	g A	-C(2)	.8	Ø.,
Device Behaviour		"III"		776	170
Additional Error Inform	nation (AMK Service	ce)	. 8	. B	(1)
dig.	Tru.		Ma.	alu.	Thu.
Error removal	4	•	4.	4.	4,

1100 System diagnostics

Short-circuit / o	verload digital outputs	100	105	
Device	iX, iC, iDT5, iDP7	70%	7025	7000
Description	'41 ₂	14/10	4/2	'A1'
Class	Error	274	The state of the s	37,0
Drive Behaviour	Drive runs down			
Device Behaviour		5,	25	
Error removal	Fix short-circuit / overload	25	1	121

1101 'Logic voltage error'

				77.		4/3/
 Internal supply 	voltage +/-	12 V is outside	e the permissible	e limit		
 Undervoltage 	of the 24 V p	ower supply	(< 20 V)			
Device	9		9	9		9
Description	Thou		"Tho.	"Ho.	14.	0.,
Class	Warning		W. Carrier	-Car	"Car.	
Drive Behaviour	Controlle	ed braking	9-	and the second	NIG.	
Device Behaviour		(1)		and the second		
Additional Error Infor	mation (AM	K Service)		May.	Ma.	"ALL
Error removal						9
Device	KE		The same	Tho	150	Ō.
Description	300		ACCO .	200	The same	
Class	Warning	11/1	9	-21/10	3/10	- 1/1/2
Drive Behaviour	Controlle	ed braking		(4)	(4)	(40)
Device Behaviour		772	2	My.	"Thu	The.
Additional Error Infor	mation (AM	K Service)				
9	Info 1	0	Intern or exte	rn (system run-up)		6
Mo.	743.x	1	Extern +24 V	, BNS (HW) (62.5 μs)		D-3
Car.	Car.	2		BVS (HW) (10 ms)	Tal.	ęł.
Error removal	10	, Ji	0.	7/10	"J ₁₀ .	"Zic.



Device	ZWR			
Description	24 VDC supply of inverter (-U1.X08:1/2) < 2	0 V	1900	<(
Class	Error	May.	May.	alda,
Device Behaviour	Automatic error reset and switch back on	14	1,	1/2
Additional Error Info	mation (AMK Service)	2	À	
13.	79 X	16.0	13.	
Error Removal	Check 24 VDC supply -G1	Cal.	A A A A A A A A A A A A A A A A A A A	
	Check fuse -F12			
	Check wiring			

1102 Line voltage limit

 Line overvoltag 	e 460 V + 15% or line	undervoltage 380 V	/ - 20% present long	er than 1 sec.	
 Undervoltage o 	f the 24 V power supp	ly (< 20 V)			
Device	x0 ⁽¹⁾	2011	,011	70%	
Description	70%		.10877	2082	
Class	45	71/10	'4'' _C O		11/1
Drive Behaviour	Controlled braking	th.	44,	272,	U.
Device Behaviour					
Additional Error Inform	mation (AMK Service)	20		23,	'S)
20/10	296	22/10	Es.	E.	:36
Error removal	-0170	-500	.000	.500	

1103 Field bus warning

- ERROR bit comes back from the drive in AFP status
- User has sent invalid command
- Running command was not ended by error event (e.g. encoder fault in positioning)
- User has sent permissible command at wrong time (e.g. reading database within active positioning)
- The ERROR bit can be deleted by means of delete error or with every new valid AFP command

V.O.		· ////		5000		
Device	920	'92,		300	,35°	6,
Description	Ty.	My.	The state of		My.	My.
Class	Warning	10	1,		10	20
Drive Behaviour	2			2	2	
Device Behaviour	Mark.		10.7	10.2	10.8	
Additional Error Info	rmation (AMK Ser	vice)	23	73/01	7201	
10	10	10		10	10	
Error removal	His	100		70,00	70,0	

1104 No FL with RF active

Device	200				
Description	, off. o	, of Co	.000	-0/L	
Class	797g	7872	797	~8 ¹ 20	
Drive Behaviour	7 (2).	0,	770	7';0,	4
Device Behaviour	System run-up aborted		"Hay.	Mu.	77.77
Additional Error Inform	mation (AMK Service)				
9	9	9	(3)	9
Error removal	For safety reasons RF m	ust always be 0	in the case of error		

1105 Reserved

(40)	.(6)	200	. (8° °	(48)	(100)
Device	7212		1111,	"THE	The state of the s
Description					-
Class	9	8	6		9
Drive Behaviour	143. c	"743	The same		43. c
Device Behaviour	Car.	Car.	Car.	K. Carlo	, , , , , , , , , , , , , , , , , , ,
Additional Error Inform	nation (AMK Service	e) 300	776	"J _C	270
and the second	Š	2	(3)	S	92,
Error removal	The state of the s	•	774,	77/40.	772

1106 System diagnostic

Watchdog option								
Device		(0)						
Description	No communication between an option card and base system after 0,2 sec. (AMKAMAC: Info: Option slot 1 resp. Instance)							
Class	The The	My, My						
Drive Behaviour	Controlled braking							
Device Behaviour	System run-up aborted	- di						
Additional Error Infor	nation (AMK Service)	"The						
Co	Age May Miles	A. C.						
Error removal	Option card failure	"ILL						

1107 'System diagnostics: Short circuit DC bus voltage'

 Short circuit D 	C bus voltag	е				
Device	KE		10,1	10,4	10	X
Description	Carlo.		Wag.		The state of the s	4
Class	Warning		10	70	10	10
Drive Behaviour		.8.	500	1800	1900	1990
Device Behaviour	System r	un-up abo	rted	"Ay	"Tyl	The same
Additional Error Infor	mation (AM	K Service)	27,	14,	27
	Info 1	0	300 ms pa	ast ELS1: UZ < 10 %		
Error removal	'Clear en	ror' inadmi	ssible, first clear	cause of fault		8,

Device	ZWR									
Description	Short circuit in the DC bus of the inve	rter -U1	(g)	(1)						
Class	Error	They	Hay.	They						
Device Behaviour	Central inverter is disconnected from	Central inverter is disconnected from the mains								
Additional Error Infor	mation (AMK Service)	9	9							
Tho.	The state of the s	Tho.	"Ko.							
Error Removal	Replace inverter -U1	Va.	N. S.	,						



1108 'System diagnostics: Main contactor'

S.	(Q)		. (B)	.00		_(ib'	- 3
Device		3	774,	12/1/4		140.	alle
Description				-			
Class		9	8	1	9	9	
Drive Behaviour		F3.	"Yes.		The same	7/2.	
Device Behaviour	430	1	The state of the s	6	Car.	Clar,	
Additional Error Inforn	nation (AMI	K Service)	2/20	27/10		2/10	
R.	Info 1	0	Main contact higher rankir		The system mu	st be shut down by the	9
1/1,	Error rem	oval	'Clear error' p	permissible only a	fter fault fixing		27
	Info 1	1	Voltage alrea	ady at X01 when L	JE is set.		
196	Error rem	oval	Check main	contactor wiring	195	19.5.	
Error removal	250	1	18 July 19 19 19 19 19 19 19 19 19 19 19 19 19	,	² 90,	2874	
Device	KE		10	105		100	
Description	1000			.100		- 100 m	
Class	1.00		"741'E.				100
Drive Behaviour		7		12,	Tr.		20
Device Behaviour							
Additional Error Inforn	nation (AMI	(Service)	200	\$	19.9°	79.5	
*Olugich	Info 1	0	200	tor does not drop. IS off: Mains voltag	ge > 75 % of an	nplitude	
.10 ²⁰	7000	1		01 when UE is set.		7000	
Error removal	10	l .	-41/23	14/0		41/0	. 41
Fault main conta	actor inverte	er (n)	7	12	10	3	100
Device	ZWR	()					
Description	see addit	onal inforn	nation	>	10.8	198	
Class	Error		28/2		25/1	7877	
Device Behaviour		error rese	t and switch back	on de		1000	
Additional Error Inforn	0.00			OII NOT			
William	Info 1	1	Main contact 10 s after inv	tor does not drop o rerter OFF, there is als -U1.X01:L1.1/L	still voltage	May 3	nun'i
		2				1.X01:L1.1/L2.1/L3.1	
Error Removal	• CI	neck main	contactor -K2	.d	40	AC.	

Device	6				
Description	Th3.,	Tho.,	Tho.		743.
Class	Warning	C. S.	Kar.		S.,
Drive Behaviour	270	270	270	276	
Device Behaviour	Sp.	1200	920	9	
Additional Error Infor	rmation (AMK Service	ce)	u.	A.	"AA"
20		2,	20	200	2,
Error removal	Error reset inadm	issible, first clear cause	of fault		

1110 Warning brake transistor

Warning brake	transistor	792		. (g)	790,	792
Device	KE	720	24	77.00	The same of the sa	The state of the s
Description	The func	tion of the brake	e transistor is n	not ensured any mo	re	-
Class	Warning	message, reac	tion of the drive	e after 4 seconds		3
Drive Behaviour	Tho.		"The	Mrs.	. Th. 2.	
Device Behaviour	- Car.	3	Car.	-Kigh.	T. S.	_6
Additional Error Infor	mation (AN	IK Service)		7/10	7/10	allie.
1900	Info 1	0	The brake tra	nsistor does not sw	ritch on	. 450
Mun.		1,000	After 4 s error		ritch off nsistor fault', Info 1 = 3, upply is disconnected)	will be generated
Error removal	M.O.	nternal KE error Replace device	⁹ Q _K 0.0,	"IGKO CI	18. No. 1	3,

1111 'Warning external component'

Warning exteri	nal component	724	The state of the s	The same of the sa				
Device	KE, KW							
Description	Actual current values violate the l²t calculation, overload of the external elements e.g. at the line input: line filter, commutation choke etc, at the inverter e.g. motor cable The overload has reached the value according ID34196 'Treshold external component'							
Class	Warning	710	7/10	710				
Drive Behaviour	.860	1900	190,0	1900				
Device Behaviour	'an,	72/2	12/2	27,				
Additional Error Infor	rmation (AMK Service)	N,	W.	21,				
Error removal	 Recheck parameters: ID34193 Nominal ID34194 Peak cu ID34195 Peak cu 	rrent	er of the device	NALE NALE OF THE				



1112 'Overload error external component'

Device	KE, KW					
Description	• Is t	riggered afte	er the expiration	of the warning inte	rval.	
					erload of the external eleme inverter e.g. motor cable	ents e.g. at the
Class	Error		10 m	, c	A. A	1
Drive Behaviour	Inverter: co	ontrolled bra	king of the moto	or 🚜	770,	
Device Behaviour	Supply: lin	e separatior	1,800	1900	1900	
Additional Error Inform	nation (AMK	Service)	17.	The same	74	724
19,	Info1	1 3	I _{max} < I _n	4,	19,	14
		2	Overload ha	s reached 100 %	2	A
Error removal	• Ch	eck applicat	ion	<	16 y	10.X
	• Ca	lculation che	eck for dimension	oning the rated pow	er of the device	
	• Re	check paran	neters:			
	40gr	• ID34193	3 'Nominal curr	ent external compo	nent'	
	8	• ID34194	4 'Peak current	external componer	nt' ME	
		• ID3419	5 'Peak current	time external comp	onent'	
		• ID3419	6 'Treshold exte	ernal component'		

Device	ZWR	79,7	- 10 m	
Description	Overload mains filter -Y1	- Riller	- Alice	
Class	Error	790	700	
Device Behaviour	Automatic error reset and switch back	on	72,	71/4
Additional Error Infor	mation (AMK Service)			
9	6 6		3	9
Error Removal	Check mains filter -Y1, replace	if necessary	H.	0.

1115 'Communication monitoring'

Communication	n monitoring	nu,	, sh	in and
Device	KW-R06	24	10,	10
	iDT5			
	iX/i3X			
	iC			
Description	In operation mode 'Setup',	time exceeded for incre	easing ID33143 'Commi	unication monitoring'
Class	Error	90	10gh)	7020
Drive Behaviour	Controlled braking	1/2	2	is a
Device Behaviour	The state of the s	7/1/2	200	77,2
Additional Error Infor	mation (AMK Service)			
20	38	28	28	28
Error Reaction	, STP	29/2	72/ ₁₀	in the same of the
Error Removal	Check master - slav If necessary, replace	30,	Calio Tic	Saltoffi

4.5 No. 1280 ... 1459 Operation Mode / Parameter Calculation

1281 System diagnostics

Device					
Description	all l	27/2	12/2	17/2	
Class	3(³)	300	,offi	xo ⁽¹⁾	×C
Drive Behaviour	2020		10th)	200	200
Device Behaviour	System run-up aborted		0	'Y ₁ (O,	74/0
Additional Error Inform	nation (AMK Service)	21/4		21/21	Ma
		Inadmissible sta	itus BAV		
Error removal	Power must be switche	d OFF/ON after loa	ading a parameter	set from the PC into t	ne target system

1282 ID 32777, 111, 32769

 Standardization 	n factor of torq	ue-generati	ng current, analog inpu	t	. B.	190
Device		The same	274	.6	t _{th} .	un.
Description		4-	1/2	4-		4.
Class			<i>λ</i>	A	À	
Drive Behaviour	16.		Max.	No.X	160.4	
Device Behaviour	System run	-up aborted	Nage,	No.	May .	.6
Additional Error Info	rmation (AMK	Service)),	Ö.	120,	1,0,
,35°		1900	KSQA		,35°	1900
Error removal	• ID1	2777 Torqu 10 Inverter p 11 Motor no	e relative to 10 V at A1 beak current minal current I _N etising current I _M	28140g)	^{9,1} 40.2)	WHY.

1283 ID 111, 32769

 Standardization 	n factor of to	rque-gener	rating current, commun	ication	2777	No.
Device						
Description	20		28	2		2
Class	20/10		72/c	201	1/25	,
Drive Behaviour	300		office	- Miles	- 2/100	.55
Device Behaviour	System ru	un-up abort	ted	V97),	7.311°	Value.
Additional Error Inform	nation (AM	K Service)	4.0	8	77.00	710
The state of the s		Male	KSQK		TH,	nn.
Error removal	• ID	111 Motor	s: er peak current nominal current I _N gnetising current I _M	Cogho:bl	Egith,	⁹ (j)



1284 ID 111, 32769

 Standardizatio 	n factor of actual torque value	s	77/02	7/92	25.
Device	The state of the s		Tele.	244	244
Description			-		
Class	9	9	9		9
Drive Behaviour	"Tra."	"The	"May		Thomas
Device Behaviour	System run-up aborted	T. C. Str.	-U.S.		Car.
Additional Error Infor	mation (AMK Service)	allie.		200	
90,	K	IQR	. 600	. 650	. 3
Error removal	Recheck parameters: • ID110 Inverter peal		Mag	Nagar.	Why
. Ka'd	ID111 Motor nominID32769 Magnetisi	IN	.42.9		164

1285 ID32772 wrong

 Slope standard 	ization factor	77,00	7/6	760	45
Device		Age,	21/4/2	The state of the s	- Inter-
Description					
Class	20		5,	30	26,
Drive Behaviour	20/2	27/1	20	34	197°
Device Behaviour	System run-up ab	orted	, of	70.	Z
Additional Error Inform	mation (AMK Servic	e) 💮	2000	20,000	3
(0)	7/0	KPSI			71/2
Error removal	ID32770 NID32772 N	ers: lagnetising current l lagnetising current l lominal velocity n _N erter peak current		Moral Marie	Patherij na

1286 ID 82 or ID 83 too large

Device	ctor of the analog inp	Jul A2			
Description	12:0	70.5)		70 J	<u></u>
Class	(S)	Nageth .		2,	- 1817
Drive Behaviour	720,	770,	770,	.3	Ó.,
Device Behaviour	System run-up at	oorted	1900	(1)	
Additional Error Info	rmation (AMK Servi	ce) 🖓	"Ay.	"P ₂ "	- Ely
1/2		KMGA	20	20	10
Error removal	Marie Contraction of the Contrac	ters: tive torque limit ative torque limit	Ó	Mr. id	ald No. 17

1287 ID 32890: 1, 2, 5, 10

Pulse multiplic	cation			92,	190
Device	Cal.	777	The state of the s		The state of the s
Description	-				
Class	9	9	9,	9	
Drive Behaviour	7/3	7FD.,	7/2,	"The	
Device Behaviour	System run-up aborted	03	- Cign.	T. Carrier	.6
Additional Error Info	rmation (AMK Service)	્રે	60.	770	77/0
190		. Ob	. (8	S. C.
Error removal	Recheck parameters: • ID32890 AWIW pul	se multiplier	m		nu.

1288 ID 110, 111, 32769

Device	70,00			
Description	14/10	14/10	14/100	4/10
Class	20,	274	M,	2/4
Drive Behaviour				
Device Behaviour	System run-up aborte	d S		200
Additional Error Infor	mation (AMK Service)	T. S. C.	27/	THE STATE OF THE S
7	of Contract of the Contract of	ISQNENN	000	x of
Error removal	Recheck parameters: ID110 Inverter ID111 Motor no ID32769 Magr	peak current	N. H.	WALH GOES

1289 ID 83 too small

 "ID83 Negative 	e torque limit" too small neg	jative value	7/10	alie .	"ILO
Device	(9)		, dr	(9)	
Description	'We.	.44	120	"Ala.	May
Class	4.	4-		4-	4.
Drive Behaviour	À	<i>A</i>	7		À
Device Behaviour	System run-up aborted	Ka.	KO.		No.x
Additional Error Infor	mation (AMK Service)	Carrier Carrier	Val.	, i	20
	120	ISQGRN	"Ito.	170	7/0,
Error removal	Recheck parameters:	•	.000	1900	:900
	 ID110 Inverter per 	eak current			
	ID111 Motor nor	ninal current I			
	 ID32769 Magne 	tising current I _M			



1290 ID 82 too large

"ID82 Positive	torque limit" too large	e 300	7/20		3
 Relevant para 	meters (ID110, ID111	I, ID32769) in the com	bination outside the permi	issible range	
Device					
Description	9	9	6	9	
Class	"They.	"The	The same	The	
Drive Behaviour	-Car,	-41gr.,	-C. St.	The state of the s	
Device Behaviour	System run-up ab	orted	17/2	776	
Additional Error Infor	mation (AMK Service	ce)	. 000	. 800	
7	12,	ISQGRP	774.	2/4.	all an
Error removal	Recheck paramet	ters:	4.	4,	47
	• ID110 Inve	erter peak current			
12,5	• ID111 Mot	tor nominal current I _N			
		Aagnetising current I _M			

1291 ID 32774 faulty

Device					
Description	20		200	30	20
Class	277	1/25	20	77/2	201
Drive Behaviour	*OL.	,017	,,6	,	.00
Device Behaviour	System run-up abo	orted	10/10	2020	,
Additional Error Infor	mation (AMK Service	e) 🚜 🥙	'41 _{CO}	"VI,CO.	.42
11		KROT	2/2/2	Wag.	71/2
Error removal	<u>'</u>				

1292 SEEP checksum

Device						
Description	7.	Tales		12/20	12/20	THE STATES
Class		4.		4.	4.	4-
Drive Behaviour		A		À	<i>A</i>	A
Device Behaviour	System r	un-up aborted	K).X	No.x	No.
Additional Error Inform	nation (AM	K Service)	100	V.	S	Carlo.
"Ji'o"	Info 2	1	Faulty SEE	P order	~7 <u>1</u> 0	· ·
90,	900	2	Checksum	error in SEEP in AMK	Info area ("34060 List	SEEP 1)
12.	19	3	Checksum	error in database (DT	H)	25
		2,	Info 3	Number of faulty	checksum (EEPROM	page number)
Error removal	Check A	Z-SEEP with m	onitor AW0 N	M2001C, ffffh inadmiss	sible	2

1293 Boot strap EEPROM

				s-compatible with the	data of the parameter	memory (e.g.
EEPROM) in wh	nich all curre	nt drive and	system data are	filed		
Device		1,	20		2,	20
Description	Α.		2	2	2	
Class	15.5		12.7	10,5	15.5	
Drive Behaviour	Carlo.		Age of the second	Nage,	Nage,	AS .
Device Behaviour	System rur	n-up aborted	D'	710	70	110
Additional Error Inform	nation (AMK	Service)		1900	1900	1900
447		May		47.	74,	The same
Error removal	inte	erface		ust be initialized throu		
740.0°	. (24.11)	er "Boot stra _l gram)	pping" the user p	arameters must be relo	oaded (manually or by	means of PC

1294 EEPROM defective

Checksum erro	or of paramete	er memory for appl	lication data	Thy.		The same
 The parallel El 	EPROM can r	no longer be writter	n or read			
Device						
Description	10%	N	3.8	70 X	10.5	
Class	Sign.	Naga.		Sign.	Nager.	
Drive Behaviour	60	10	10		10,	10
Device Behaviour	System rur	n-up aborted	.70%	.(1000	.3000
Additional Error Infor	mation (AMK	(Service)	747	"th;	77	24/
12,		22,	27,	N.		M.
Error removal	inte	erface	enu item must be ini "the user parameters	a di	201	

1295 ID100 / ID101

Device					
Description	105	J&S	7.9%	188	
Class	201	290	30	290	
Drive Behaviour	, of C	10/10	XOT .	70/0	100
Device Behaviour	System run-up	aborted	70,40	7000	7032
Additional Error Info	rmation (AMK Ser	vice)	4/10	74100	" Miles
My.	12,	KIDZL	la,	My.	My,
Error removal	• "ID100 must be	Proportional gain spee in a suitable ratio to o	d control K _p " and "ID10 ne another	1 Integrating time spe	ed control T _N "
	Rechec	k parameters:			
	· (Car.)	ID100 Proportional gai	n speed control K		
		ID101 Integrating tim s			
		ID110 Inverter peak cu	The state of the s		
	·25	ID111 Motor nominal c	urrent I _N		
		ID32769 Magnetising of	IN IN		



1296 ID211 / ID209 / ID210

Device	23			
Description			*	
Class	9	9	9	9
Drive Behaviour	743°	"They.	Mo.	"Thou
Device Behaviour	System run-up aborte	ed Co	-C. 20.	Co.
Additional Error Inform	mation (AMK Service)	7/20	770	770
D.	900	KPS	The state of the s	S.
Error removal	ID110 IntegrateID209 Lower at ID210 Upper At ID21	ional gain speed contro ting tim speed control T _n adaption limit		en who

1297 ID 212 / ID209 / ID210

The DZR adap	otation I component slope fac	tor could not be calc	culated correctly in the	e drive	
Device	200	200	200	20.0	
Description	No.	27/	The same	19	
Class	XOTT.	,of 1	, of C	x0(1)	
Drive Behaviour	7080	Office .	.1030	.2080	
Device Behaviour	System run-up aborted)			21/1
Additional Error Info	rmation (AMK Service)	Į.	L.	44,	2720
		KIS			
Error removal		otion limit otion limit		White particular to be a second of the secon	manif

1298 ID 100 faulty

• 1 ≤ "ID100 Pro	portional gain sp	eed control K _p "≤ 32	2767	"Ito.	
Device	920	1920	1920	(A)	
Description	72,	My.	My.	My.	The state of the s
Class		10	1/2	10	12
Drive Behaviour	3				
Device Behaviour	System run-u	p aborted	10.X	73.X	79-X
Additional Error Infor	mation (AMK Se	ervice)	79	G, ~	20,
10	10	KPDZL	10/	10	
Error removal	• ID110 • ID111	ameters: Proportional gain sp Integrating tim spee Motor nominal curre 69 Magnetising curre	d control T _N	Man Hamily o	and amount

1299 ID32775: even

Device	and the same of th				
Description					
Class	9	9	9		9
Drive Behaviour	Tho.	The.	Thou	.3	fo.,
Device Behaviour	System run-up aborted	Con.	- Car.	- Car	
Additional Error Info	mation (AMK Service)		allio.	Nice.	- Ille
190	100		600	(9)	. 30
Error removal	May.	•	The same of the sa	7/1/2	Ma.

1300 Error in Temporary Parameters

 An error in the s 	standardization calculation occurred	on entry of a temporary	parameter	
 The entered pa 	rameter ID is not part of the "ID270 T	emporary parameter list	" (M)	100
Device	200	.70 ²⁰	No.	.1000
Description	74/2	"H ₁ "	" Williams	24/2
Class	Warning	24,	20,	214
Drive Behaviour				
Device Behaviour	System run-up aborted	795,	13.2	
Additional Error Inform	mation (AMK Service)	39/4	3,74	_0
N	·	100	101	70,
Error removal	2012	.1020	.10%	7025

1301 ID32778 faulty

• 0 ≤ "ID32778 S	peed relative to 10 V	at A1" ≤ 100 000	rpm 👌		9
Device	The.	The	"Tho.		to.
Description	3000	Maria	Miles	Mr.	<u></u>
Class	9			2010	
Drive Behaviour	70	3	(19)	(4)	(9)
Device Behaviour	System run-up abo	rted	7444.	THE.	72020.
Additional Error Inform	mation (AMK Service)	4-	4.	4.
9	9	8	3		8
Error removal	143.2	7K3.X	"Ho.z		150.0

Operating mod	de incomplete, see	"ID32800 AMK mai	n operating mode" et s	eq.	14/100
Device	Ma.		7/2	26,	27,
Description					
Class	2.6	7.8%	. 25		4.S.
Drive Behaviour	Till I	"THE	T. A.	Pis	
Device Behaviour	System run-up a	aborted	,of	, NO.	70%
Additional Error Info	rmation (AMK Serv	rice)	70/20	709/2	7080
	- 3	BA error o	decoupling	11/0	74,10
Error removal		AMK main operati	ng mode econdary operating mo	ode 1 6	og, n _n ,



Operating mod	de incomplete, see "ID3280	00 AMK main oper	ating mode" et seq.	790	.30
Device	24		Tales.	The same of the sa	220
Description					
Class	9,	9	9		9
Drive Behaviour	Thou	The.	"Ma.		Mrs.
Device Behaviour	System run-up aborted	-Chr.	- Car		Con.
Additional Error Info	mation (AMK Service)	27/0	2/1/0	270	
8	. 600	BA error DZR	. 600	. 650	
Error removal	Recheck parameters: ID32800 AMK m ID32800 ID32		de ary operating mode 1	6	y way.

1304 System diagnostics

Device	44					
Description		274	22,	274		2/4
Class						
Drive Behaviour			38	28,5	7.8.5	
Device Behaviour	System run-up aborted		27	201	and the	
Additional Error Infor	mation (AMK Se	rvice)	,	OL	2011	
10/20	2000	BA erro	or position control	>	7080	
Error removal		00 AMK main oper	ating mode Secondary operating	g mode 1 6		nari

1305 System diagnostics

 Operating mod 	de incomplete, see "ID32	2800 AMK main ope	erating mode" et seq.	NIGO.	
Device	(S)	(9)	. (6)	(9)	0
Description	72	na.	May.	21/4	Ma
Class	4		4-	4.	4.
Drive Behaviour		2	3		9
Device Behaviour	System run-up abort	ed	Ma.		No.
Additional Error Infor	mation (AMK Service)	May.	Mar.	2	200
"Jio.	"Ago,	BA error flux co	ond	"J ₂ O.	
Error removal	20	K main operating mo	ode dary operating mode 1	6	nan'i

Device	10g/2				
Description		77/50	7/1/0	. N. C.	21/
Class	4	272	2/2,	2/2,	272
Drive Behaviour					
Device Behaviour	System run-up	aborted	, (s)	20,	~ (s)
Additional Error Infor	mation (AMK Ser	vice)	ž.	The same	19/6
. office	-900	Level BA	errror		Lo.
Error removal	-174°	0 AMK main operatir	ng mode	de 1 6	MA.I

Position resolu	ution not realizable	700		(0)	300
Device	The state of the s	74,	247		The state of the s
Description		*			
Class	9	9	9	9	
Drive Behaviour	The same	"The."	"The	"Thou	
Device Behaviour	System run-up abou	ted	Mar.	Mar.	3.6
Additional Error Info	rmation (AMK Service		310	alife	ALITE COLUMN
. (B)		IQLAGE_WRONG		and the second	190
Error removal		Recheck parameters: • ID116 Resolution motor encoder		a	No.
. NO. O.	0)	lution external encoder lution linear encoder	Wa'ij	12.04	

1308 System diagnostics

 Resolution of t 	the "Speed so	urce pulses"	' source not realizable	e	47/00	.41/0
Device		200	20,		M.	27,
Description						
Class	385		2.00			3.5
Drive Behaviour	201		27/2	20%	THE STATE OF THE S	
Device Behaviour	System rur	n-up aborted	Regional	XOLL STATE	2017	70%
Additional Error Infor	mation (AMK	Service)	X	360	.1030	3080
		71/0	RDB3C_AKTGEB	ER .	.4.19	
Error removal	• ID1 • ID1	17 Resoluti 21 Load ge	on motor encoder on external encoder ar input revolution ar output revolution	Egypog)	We Well	¹ 6)

-17		(N) (N)		.13	-17
 Speed window 	larger than 107	372.5 rpm			
Device		À	<i>λ</i>	2	\
Description	Ma.	Ma.X	Ma.x	Ma.	
Class	Car.	The same of the sa	N. S.	No.	<u> </u>
Drive Behaviour	io.	"710.	1760	"710.	"710,
Device Behaviour	System run-u	p aborted	'9 ₀ ,	1900	1900
Additional Error Infor	mation (AMK S	ervice)		My.	My.
10	2	DZLFENST		7,	10
Error removal	2	2	2	2	



200	DLF" calculation out of tolera 00 * ZP * EIN) / (GPZ * AUS F ≤ 7fffh		10 10 10 10 10 10 10 10 10 10 10 10 10 1	H. L. C. Market
Device	6	6	9	6
Description	Th3	"7f3.,	Tho.	"Tho."
Class	Car.	- C.	Car.	Car.
Drive Behaviour	"Ile	7/20	7/10	170
Device Behaviour	System run-up aborted	35	8	(C)
Additional Error Info	rmation (AMK Service)	, and the second		in, the
Error removal	 ID32960 Input M 	encoder period (GPZ) otor encoder gear (EIN)		~altomatikedi
'90's.	• ID32961 Output	Motor encoder gear (AU	S)	''.

1311 System diagnostics

 4 GPZ calculat 	ion inconclusive			1.00		
Device	17/2	27/2		THE STATE OF THE S	T. S.	
Description	, of C	xo ¹ lox	201	100	301	
Class	1020	0,000	2087		.500	
Drive Behaviour	1/L)	.4.0	1/4	9	11/1
Device Behaviour	System run-up aborted		272,	2/2		27.20
Additional Error Infor	mation (AMK Service)					
20	(3)	3		3	20	
Error removal		N. S.		-2P	79/2°	

Device					
Description	7	7		3	
Class	160.	Mr.	.3	to.x	No.
Drive Behaviour	N. S.	No.	N. S.		No.
Device Behaviour	System run-up aborte	ed	720	3	Ò.
Additional Error Info	mation (AMK Service)	1900	1900	(1)	
	ly.	The same of the sa	My.	My.	n'i
Error removal	Recheck parameter:		2,	10	12
	 ID32773 Serv 	vice bits: bit 16 = 1			

1313 ID82 or ID83 too large

(4)	(9)	, Q	8"	(4)	(4)
Device	71/4	771/4		744.	72/1/2
Description				-	-
Class	8	9	6	6	
Drive Behaviour	Though the same of	"H3.,	The same	"The	
Device Behaviour	System run-up aborted	Car.	Kar.	Tar.	
Additional Error Info	rmation (AMK Service)		"Ilio	170	1760.
1200	1900	MDGRENZ	000	190	190
Error removal	Recheck parameters: • ID82 Positive to • ID83 Negative to	•		No.	Man

1314 System diagnostics

1000	202	.1070		2000
Device	77.50	7410	W.C.	4/10
Description	No.	Na.	212,	21/2
Class				
Drive Behaviour	25	3,		8)
Device Behaviour	System run-up aborted	² G/ ₁	a de	,
Additional Error Inform	mation (AMK Service)	*0100	,010	, of C
10 July 1	1000	10/3/2	2007	10g/Jr.
Error removal	Recheck parameter: • ID32990 NK-shift"	Nady Co.	Halakio.	NAMICE.

1315 System diagnostics

Resolver 0 poi	nt shift inadmissible						
Device	0	20.	720.		30.	Š	Ö.
Description	(90)		. 300	(8)		(90)	
Class	"May.		11/11	May.		Tru.	
Drive Behaviour	20		2.	1.		A.	
Device Behaviour	System run-up aborte	ed		À	A		
Additional Error Infor	mation (AMK Service)	Ka.X		F3.X	Mar.		
Carlo.	N. S. C.	100	1	27	Sept.		2
Error removal	Recheck parameter: • ID32959 Offse	et resolver	'Spylicy,	. Kg	10,	,d;0 ⁸ 1,0	0,

1316 ID32769/ID100 too large

 "ID32769 Mag 	netising current I _M "	'/"ID110 Inverter pe	ak current" ratio too lar	ge	
Device	STAPE	27/6	27/2	19/4	,
Description	. ó ^{C°}	, of C	, of C	, of Co.	,070
Class	>	1000	P. Salar	10 all land	1000
Drive Behaviour	.3	⁷ ; _O ,	7:0.	'7' _(Q)	71,0
Device Behaviour	System run-up a	aborted	May.	200	200
Additional Error Infor	mation (AMK Serv	vice)			
9	9	ISDNENN	9	9	
Error removal	· (C)	neters: nverter peak current Magnetising curren		"SHOP BUTTE	, altoré



1317 ID32770/ID110 too large

 "ID32770 Mag 	netising current I _{M1} " / "ID11	10 Inverter peak cu	rrent" ratio too large		
Device	La Color	· · · · · · · · · · · · · · · · · · ·	74/4,		Talay.
Description			-20		
Class	9	9	6		9
Drive Behaviour	743.	7/13.	The same	7/2	D-11
Device Behaviour	System run-up aborted	Car.	Typ.	Kar.	
Additional Error Infor	mation (AMK Service)	170	770	270	
8	200	ISDNENN1	. Open	. Ch.,	
Error removal	Recheck parameters: ID110 Inverter p ID32770 Magne		Nun.	un.	y nun.

1318 ID32774 faulty

 I component flu 	x conduction fact	or	7020	702	λ
Device	14	4/13	14/2	4/13	Th.
Description		2/4	22,	27,	274
Class					
Drive Behaviour				1.9.C.	
Device Behaviour	System run-up	aborted		To the	44.
Additional Error Inform	mation (AMK Sei	vice)	70,	70.	
.1070	1030	KIFL	30830	.10 ²⁰	
Error removal	7) [5]	71/0	74,50	"W. Co	71,5

1319 System diagnostics

Configuration of	of "Strobe" binary inpu	t wrong	>	₽ [©] .	15,
Device	Carried .	- Carlo	- Aller		Cara.
Description	720,	720	720	170	
Class	S.	100	. The	190	. 3
Drive Behaviour	2	My.	12/20	"Style"	44
Device Behaviour	System run-up abo	rted	4	4.	4.
Additional Error Inform	mation (AMK Service	e)		À	À
Mo.	16.2	Ma.x		₽×	No.x
Error removal	N. S.	1000	1	,	Carlo

72,	No.		1/4	M.	Tr.
Device					
Description		2,00	3.0	0	,S
Class	T. J.	197	72/1-	T. A.	
Drive Behaviour	xoff."	, of ()	,of(**	*Office	
Device Behaviour	System run-up aborted	1 2000	,5 ² 10.	70/10	
Additional Error Infor	mation (AMK Service)	7.10	74/0	71/0	-4!\f
7/2	44	RESERVE	71,2,	My,	200
Error removal		•			

(0)	(4)		. (3)	(4)	(4)
Device	77/4	22	174.	Thu.	The state of the s
Description		4			-
Class	9	9	6		9
Drive Behaviour	143.	143.	The state of the s	3	10°
Device Behaviour	System run-up aborted	Carlo.	Kig.	Kigh.	8
Additional Error Infor	mation (AMK Service)		270	776	270
920	900	RESERVE	(3)	92,	1900
Error removal	The same of the sa		14.	Na.	The state of the s

1322 System diagnostics

19.	301	27/	40,		19/	
Device	, of C	10 ¹	200	8	96	70%
Description	>	.1075				7035
Class	3	100	71/0	71/0		7/10
Drive Behaviour	Ma		2400	20,00	4	The state of the s
Device Behaviour	System run-up a	borted				
Additional Error Info	mation (AMK Serv	rice)		. S	20	
i Ne	de	RESERV	E 35	0	20/10	
Error removal	-01/10	-0100		_	Ole Control	

1323 ID32769 IM < ID111 IN

Device	8				
Description	Mo.	Ma.	M.	16.	
Class	Car.	May,	No.	The state of the s	
Drive Behaviour	20	110	"Ifo.	17/0	~Ji ₀
Device Behaviour	System run-up aborted		(N)	190,	1900
Additional Error Info	mation (AMK Se	rvice)	Thu.	My.	Ty.
A.	120	IROOT	4,	10	1,
Error removal	Recheck para	meters: nominal current I _N	3	. 23	
		netising current I _M			

1324 ID32772 nN too large

The same	M	No.	Zi.	77	The state of the s
Device					
Description	9	9	9	9	
Class	The same	Mrs.	The same	Tho	
Drive Behaviour	A 1/2	Mr. Co	W.	ALCO.	
Device Behaviour	System run-up aborte	ed		2010	- 2/10
Additional Error Info	rmation (AMK Service)	3	9	(4)	(4)
11/4	776	DZLNENN	3	4,00	The same
Error removal	Recheck parameter:				
	ID32772 Nominal vel	ocity n _N			



1325 ID32772 P1 reference

-36Y	- 16Y	364	201		
on too large on too large on too large					2/2
Device		and a second	The state of the s	744	247
Description				-	
Class	9	9		9	9
Drive Behaviour	"Tho."	"Ho.		Mrs.	"Tho."
Device Behaviour	System run-up abou	rted	_6	20,	(D)
Additional Error Infor	mation (AMK Service) [27/6	The same	
900	, do	DZLNENN1	. 80	. (B)	
Error removal	Recheck parameter ID32772 Nominal v		n _n	May.	Man

1326 System diag	gnosucs					
 Source convert 	er/on (UE) incorre	ct 🦽		100	100	
Device	XON THE PROPERTY OF THE PROPER	702	25.	500	7025	۷.
Description	N CO	7/10	7/10		4/0	24,5
Class		20,	21/4		124,	274
Drive Behaviour						
Device Behaviour	System run-up	aborted	20	25		26
Additional Error Inform	mation (AMK Ser	vice)	TO THE STATE OF TH	STA THE	Pos	
,0/1/0	, offe	,of	Ç.	,0/10	,0//10,	
Error removal	Check A	CC Bus	XC	A)	200	,
O,	Rechec	k parameter:				
el n	• 1	D32795 Source	UE MART		May.	The state of the s
Device	KE					
Description	ACC configured	as source of 'Do	C bus on' but no AC	CC bus is connec	ted	. 3. S
Class	250		201	2901	20	
Drive Behaviour	705	70,		705	305	
Device Behaviour	System run-up	aborted	.30	500	1000	
Additional Error Inform	nation (AMK Ser	vice)	''4' _. Co.		71/0	71/2
No.		The state	274		Ma.	272
Error removal	Check A	CC Bus				
	 Rechec 	k parameter:				
"The		D32795 'Source	UE'			

1327 ID104 kv factor

 1 ≤ K_V ≤ 30000 		190	. (d))**	19	(10)
Device		The state of the s	222		The state of the s	The state of the s
Description						
Class	9		9	9		9
Drive Behaviour	Mrs.		The.	Thou	.3	200
Device Behaviour	System ru	n-up aborted	Car.	Car.	T. S.	.6
Additional Error Inform	nation (AMK	(Service))	776	720	1/10.
1000		1200	KLAGE		. B	
Error removal	• ID: • ID: • ID: • ID: • ID: • ID:	115 Position 1 116 Resolution 117 Resolution 118 Resolution 121 Load gea 122 Load gea 123 Feed cor	poop K _V -factor feedback type on motor encoder on external encoder on linear encoder ar input revolution ar output revolution estant encoder period			

1328 System diagnostics

.ch	200		2000	200	:01/2
Device	"FI'(O).		77.00		77,0
Description	21,	47	ls.	44,	21/4
Class					
Drive Behaviour	2	3	9		20
Device Behaviour	System run-up aborted		20/0		agher.
Additional Error Infor	mation (AMK Service)	So	- Ollo	-55	Control of the Contro
~9°	7972	RESERVE	78 ₂₁ ,	~8 ₂₂	7.01JE
Error removal	77,00,		77(0),	71,00,	7/0),

1329 ID111/ID110 > 80%

Device	Sec.				
Description	² C)	70	7/0	710	310
Class		199	1900	'Pro-	190
Drive Behaviour		The same of the sa	My.	112/2	Ty.
Device Behaviour	System run-up	aborted	20,	21,	20,
Additional Error Infor	mation (AMK Se	rvice)			
10.8	79.5	KSQA	79.8	10.5	
Error removal	200	meters: Inverter peak current Motor nominal currer		it Elitoreau y	, balitof



1330 ID32772 > ID113

Device	L. The		The same of the sa	72/4	The state of the s
Description			-22	-47	
Class	9	9	ò	N	9
Drive Behaviour	"Tho."	"This.	The.		Tr
Device Behaviour	System run-up aborted	-C. (2)	-Car.	-C2	
Additional Error Infor	mation (AMK Service)	allie.	770	200	
900	, 00°	N_NENN	. 600	. 85	. 20
Error removal	Recheck parameters: ID113 Maximum ID32772 Nomin	•	Hara	The state of the s	T. Way

1331 ID209 > ID113

"ID209 Lower	adaption limit" is great	er than "ID113 Max	ximum speed"	70/2	λ
Device	4	" Tyles	W.S.	"Ayles	. ch!
Description		274	274	Ma,	2/4,
Class					
Drive Behaviour			5,	3.2	
Device Behaviour	System run-up abo	rted	.6	19/1	19
Additional Error Infor	mation (AMK Service) ,	70,	×C	500
10/3/2	1000	1020	10/30	2000	
Error removal	Recheck paramete ID113 Maxii ID209 Lowe		MAN IS	Wald Co	Mr. Market

1332 ID210 > ID113

Device	8					
Description	"May		11/20	74/4	The state of the s	
Class		4-	4-	4.	4.	
Drive Behaviour		3		1	A	
Device Behaviour	System run-up aborted		M.	. *	D.X	
Additional Error Inform	nation (AMK Sei	rvice)	Var.	700		
"Jio.	"Zo,	KSQA	770	170		
Error removal		meters: Maximum speed Upper adaption limit	Man in the	MAN ING	mni	

1333 System diagnostics

"ID32780 Acce speed"	leration ram	p" resp. "ID32	781 Deceleration	ramp" are too larg	e in reference to "ID1	13 Maximum
Device		1,	10		14	14
Description	2				2	
Class	12.9		10.7	10.8	13.	Υ
Drive Behaviour	Sign .		N. J. C.	V ₃ l _O	190	.6
Device Behaviour	System ru	ın-up aborted	2	10	10	110
Additional Error Inform	nation (AMI	K Service)		900		. 750
741		24,	33	4.	72/1	TH,
Error removal	• ID	parameters: 113 Maximun 32780 Accele 32781 Decele	ration ramp	-840 j.)	11/4 J	<i>y</i>

1334 ID38 > ID113

 "ID38 Positive 	velocity limit	" is greater th	nan "ID113 Ma	ximum speed"	274,2	3	The same
Device							
Description	9		9	9		9	
Class	The		Tho	"Also		de	
Drive Behaviour	200		N. C.	W.		(0	74
Device Behaviour	System ru	ın-up aborte	d	- 31/10	100		- 2/10
Additional Error Infor	mation (AMI	K Service)		770	750		1100
220		744		12/4	720		The same
Error removal	• ID	parameters: 38 Positive v 113 Maximu	elocity limit	"Mo'th		.16. j	

1335 |ID39| > ID113

Device	73,				
Description					
Class	10.5	13.5	1975.	18.5	
Drive Behaviour	200	190	290	200	
Device Behaviour	System run-up aborted	t	101	KOL.	10%
Additional Error Info	mation (AMK Service)		70 ₂₀	7000	No.
4/10	4/10	ch.		"Aylo	" Mila
Error removal	Recheck parameters: • ID39 Negative • ID113 Maximus	• \		No.	N.



1336 ID32778 > ID113

● "ID32778 Spe	ed relative to 10 Vat A1" is gre	ater than "ID113	Maximum speed	77,0	24
Device	and the same				
Description					
Class	6	9		9	9
Drive Behaviour	Aks.	16.	"ME	, ~	743.
Device Behaviour	System run-up aborted	The same	- Car	.60	2.
Additional Error Infor	mation (AMK Service)	1710	2/10	770	
900	(8)		. 8	. 65	
Error removal	Recheck parameters: ID113 Maximum sp ID32778 Speed rela			The state of the s	" unu

1337 ID32783 > ID113

70%	.1081	700	1000	2	of the second
Device		41.00	41/0	41/2	
Description		Ma.	274	20,	37
Class					
Drive Behaviour	20,	20		20,	200
Device Behaviour	System run-up a	borted		Tille.	THE STATE OF THE S
Additional Error Info	rmation (AMK Serv	rice)	×C	V.	*O[(
2017	20,30	RESERVE	2632	3	600
Error removal	74 (O.	"41 ₁₀		71/0	27/

1338 ID157 > ID113

 "ID157 Velocit 	y window" is greater than "ID113 Maxi	mum speed"	"Ms	
Device	The Thirty	Mar,	N. S.	
Description	July July			
Class	. S	. 450	190	
Drive Behaviour	tr. Way	N _L	My.	The state of the s
Device Behaviour	System run-up aborted	4.	A.	4.
Additional Error Info	mation (AMK Service)	À	<u> </u>	À
10,1	75×	6×, 6	X,	.77
Error removal	Recheck parameters: ID113 Maximum speed ID157 Velocity window	, Springly .	(dballofrat)	,(

1339 ID125 > ID113

 "ID125 Velocity 	Threshold N _x " is grea	ater than "ID113 Ma	aximum speed"	3	
Device	Sight.	TEE.	27/4	, in the second	1
Description	xoff.	*Ollin	*OLL	, of (
Class	10813°	7030	:07107	2000	5
Drive Behaviour	19	71.0	74.00	"4' ₁₀	71/0
Device Behaviour	System run-up abo	rted	21,20	7/2,	Na.
Additional Error Inform	mation (AMK Service)			
20,	90	23		ġ,	~ (s)
Error removal	Recheck paramete ID113 Maxii ID125 Veloci			altorrati	16

1340 ID124 > ID113

 "ID124 Zero ve 	elocity window" is greater that	n "ID113 Maximum	speed"	790	700,
Device	The same of the sa	222		The state of the s	The same
Description					-
Class	9	9	6	à	<i></i>
Drive Behaviour	"Jrg."	The	"Tho."	"Ho.	
Device Behaviour	System run-up aborted	50,	The same	"War.	.6
Additional Error Infor	mation (AMK Service)	.0	lillio.	alific	allie
(1)		. 250		192	(190
Error removal	Recheck parameters: • ID113 Maximum s	•		Mu.	ny.
A .	 ID124 Zero velocit 	y window			

1341 AW-lmax wrong (SEEP)

	e maximum current = 0 is inad s read from the serial EEPROM		sibly there is a defect	at the serial EEPROM
Device	The same of the sa	71/4	200	No.
Description				
Class	्ठे	Q.	9	- Q.
Drive Behaviour	The 3	to.	No.	The same
Device Behaviour	System run-up aborted		Mis.	
Additional Error Infor	mation (AMK Service)			ALL STREET
170	100	1/2/2	100	
Error removal	"The	424	The state of the s	"Toly,

1342 System diagnostics

External error					
 Indicated at fo 	llowing system run-up				
 Timeout 					
Device	" Tali.	Th.		27.	Pay.
Description	27,	27,		W.	27.
Class					
Drive Behaviour	195	79.5	795	S.	9:5,
Device Behaviour	System run-up aborted	No.	200	200	2
Additional Error Info	rmation (AMK Service)		101	101	70%
70/2	7000	PEEP Timeout	*	7020	7025
Error removal	System OFF/ON (HW res	set)		7/100	" Aylo
- 5				- A	

1343 System diagnostics

 Internal fault or of 	component failure	The	"Africa		The same
Device	Co			-2(C)	
Description		~31JL	Zaliko.	~alle	Zalli.
Class	2,5	2,	77(0),	77(0),	77,107,
Drive Behaviour	The.		420	220	" The
Device Behaviour	System run-up abo	orted			
Additional Error Inform	nation (AMK Servic	e) 💍	6		9
Cogho.,	Calcilla	DTH Time see Comm	out n. Error AZ-M881C,	, AW-M200	No.
Error removal		310,	10	710,	70



1344 System diagnostics

 Internal fault or 	component failure (AWMC	ON)	. (B)	792,	35.
Device	Tales.		224	" International Contraction of the Contraction of t	The state of the s
Description					
Class	9	9	ò	}	9
Drive Behaviour	The.	"Ma.	"Ma.		"Thom."
Device Behaviour	System run-up aborted	The state of the s	-Ugr.	.6	Ø.,
Additional Error Inform	mation (AMK Service)	2710	alle	NIC.	
'g,	1 B	DTH Timeout see Comm. Erro	- AZ-M881C, AW-N	1200	Mic
Error removal	20,		27,	24,	10,

1345 System diagnostics

 Internal fault or 	component failure (w	rong BAV order)	, of 10	, of Co.	
Device	2007	2027	Page .	200	3
Description	1/0	77,0	77.00	77.00	-4. ¹ .
Class		112,	112,	N _{II} ,	712,
Drive Behaviour					
Device Behaviour	System run-up abo	rted		20	20
Additional Error Inform	nation (AMK Service	e) 2/4°	65	Ž.	3/2
aliteme	alifoldia.	DTH Timeout see Comm. Er	ror AZ-M881C, AV	V-M200	
Error removal	(8)	1900	.00	(1)	

1346 System diagnostics

Internal fault or	r component failure (Hands	shake BAV/DTH)	NO.	₃ .9`	196
Device	190	200	280	780	4
Description	10/	101	101	10/1	
Class	70,000	70%	7025	70/20	2
Drive Behaviour	A	100	14/10	74/2	"ay'i
Device Behaviour	System run-up aborted		200	20,	27
Additional Error Infor	mation (AMK Service)				
.4K2.P	*94 ₀ S.	DTH Timeout see Comm. Erro	r AZ-M881C, AW	-M200	16.7
Error removal	The same	"Claric	200	The state of the s	

1347 System diagnostics

 Internal fault o 	r component failure (Hands	shake BAV/PEEP	Tr.	20	10
Device	7	λ.		À	A
Description	No.x	Kax	. *	\$×	163.
Class	180	1800	V. S.	A	Sales Contraction of the Contrac
Drive Behaviour	70,	310	710	770	
Device Behaviour	System run-up aborted	,80°	1900	1900	.6
Additional Error Infor	mation (AMK Service)	7	"Tyl.	May.	My.
71	12.	DTH Timeout see Comm. Erro	or AZ-M881C, AW	/-M200	2,
Error removal		200		*'S,	. 2.0

1348 System diagnostics

Device		12/4			
Description		-			
Class	9	9	9,	9	
Drive Behaviour	"Ma.	"Thou	Thomas	Mar	
Device Behaviour	System run-up aborted	Co.	-Con-	T. S.	
Additional Error Info	rmation (AMK Service)		The same	7/10	
"IN' 120.	, _{1,11} , _{1,11}	DTH Timeout see Comm. Error	AZ-M881C, AW-I	M200	74/90
Error removal	27,	13,	4	10,000	11,

1349 System diagnostics

 Internal fault o 	r component failure	"OLL"	, of 100	76,
Device	AW	10/10	100 July 1	1000
Same AW nun	nbers set at different AWs (rotary switch t	for AW No.)	"4' _{CO.}	
Description	20,000	1/12	212	274.
Class				
Drive Behaviour	23, 23	23	20	
Device Behaviour	System run-up aborted	Alle .	2. J.	
Additional Error Info	rmation (AMK Service)	.000	.0170	76.
70°	2.	1200	Major.	Party Contract of the Contract
Error removal	77,00	7/0,	71:02	710

1350 AW not present

Device	AZ AW					
Description		1990	1900		90,	1900
Class		"Zy.	Tay.	Tay.		"Tay.
Drive Behaviour		14,	20	20		20
Device Behaviour	System run	-up aborted				
Additional Error Info	mation (AMK	Service)		79'S	73.5.	
90,	200	Test cor	nm. Error cells A	Z-M881C, AW-N	1200	
Error removal	AWAWAWCheAn AActivSam	not present or does no was stated in ID32812 is defective processor receives sy ock ID32812 • Check b AW disturbs the entire vate AZ without Aws (p ne AW numbers set at heck parameter:	extem reset rus lines for corre bus bus bull off plug X27, different Aws (ro	ect contacting		



1351 AW not active

r -	mode defined for an AW is not active.	n operation mode chang	e is not defined		
Device	AZ				
6	AW	6	6		9
Description	743.				
Class	Kar.	Car.	K. D.	K.	, 1
Drive Behaviour	130°	7/10	7/10	2/10	
Device Behaviour	System run-up a	borted	92	(g)	- 2
Additional Error Info	rmation (AMK Serv	ice)	May.	THAN.	The state of the s
	_	Ba_wechs()			
Error removal	Recheck parame • ID32812	eter: Active drives	VOIGHO Y	Á	May.

1352 Can be changed only offline

ID cannot be contained to the conta	hanged online		272,	2744	27/2
Device					
Description	25	26,	28		20
Class	The same	22/10	20/10	100	
Drive Behaviour	"OLLO	.of	.000	.0170	
Device Behaviour	System run-up aborted	12/2	1200	1200	
Additional Error Infor	mation (AMK Service)	(2).	7/0.	71,0	97
12	72/4	Par_wechs(), tem	p. data change	N. A.	The
Error removal		•			

1353 Parameter Set change wrong

Faulty comman	nding in the paramete	er set change		10,	7/0,	
 Parameter set 	not defined ID32813					,6
Device	13	724.		-14 ¹ / ₁₁ .	TIN,	774,
• ID32813 ID	32820 (depending up	oon AW No.) A	W not active	7-	do.	do
Description	2		2	2		2
Class	10.7		16.3	16 X		Mary.
Drive Behaviour	100	6	300	100	18	3
Device Behaviour	System run-up ab	orted		10	710	
Additional Error Infor	mation (AMK Service	:e) 👋		1900	.250	.6.
	44	Pars_v	vechs()	"Tyle"	"A17".	Th.
Error removal	Recheck paramet ID32800 AMK ma ID32801 ID328 ID32813ID3282	in operation m 05 AMK secor	dary operati		Z.	Mary .

1354 lm < lm1

 "ID32769 Mag 	netising current I _M " < "ID327	770 Magnetising cur	rent I _{M1} " at the poin	t P1	700
Device	72	7274	in.	La.	The same
Description			-1		
Class	9	9	9	9	
Drive Behaviour	Tho.	7/2.	Thou	"H3.	
Device Behaviour	System run-up aborted		-C.S.,	T. S.	
Additional Error Info	rmation (AMK Service)		17/6	7/10	The.
(2)	100	.89		(g)	.00
Error removal	Recheck parameters: • ID32769 Magnet • ID32770 Magnet		in a	7	n _h n,

1355 Datum ID32785

7000	7000		70%	7025	7020
Device	'W.		4/10	'4 ₁ '.	44.100
Description	27,	7	120	No.	21/2.
Class					
Drive Behaviour			. 3.9		
Device Behaviour	System run-up aborted	T. Carrier	T. J.		A. C.
Additional Error Inform	mation (AMK Service)	Car	x0[[]	×C	,0 ⁽¹⁾
70/20	2000	RESERVE	10/20	:2007	2020
Error removal			"H' ₁₀ "		"41 _G

1356 Datum ID32785, ID32786

	32785 Message 16" inadmissible 32786 Message 32" inadmissible	ElgiA _D	Wagha	. A
Device				Nic.
Description	.8	. 450	1900	. 650
Class	M _a ,	My.	My.	The state of the s
Drive Behaviour	4.	4.	1/2	1,
Device Behaviour	System run-up aborted	2	2	
Additional Error Inform	mation (AMK Service)	10,4	10.1	
Carlotte Carlotte		N. Salah	N. S.	á
Error removal	Recheck parameters: • ID32785 Message 16 • ID32786 Message 32		,rH,ldbBlHC	"Midpaire.



1357 AWNR ID32787, ID32789, ID32791, ID32793

(S)	(0)	(Q)	(0)	(4)	3
Device	71/3,	22/	T.	17.00	The.
Description					
Class	9	9	9	9	
Drive Behaviour	Tr3.,	"H3.,	Ms.	"H3.	
Device Behaviour	System run-up aborted	May.	Car.	T. S.	
Additional Error Inform	nation (AMK Service)	770	27/0	"Jic	
900	900	Filter_dac()	So.	S. S.	
Error removal	ID32789 SourceID32791 Source	e analogue channel 1 e analogue channel 2 e analogue channel 3 e analogue channel 4	Check AW-No., perr	nissible 0 8	

1358 Source ID32787, ID32789, ID32791; ID32793

14.		24	24.		74	24
Device						
Description	13	6.	708	73.5	10	5.
Class	190		790	197	790	
Drive Behaviour	10		10	100	10	
Device Behaviour	System run-	up aborted	7000	700	720	à
Additional Error Infor	mation (AMK S	Service)		27.	74/	247
11,		27	274		27,	27,
Error removal	ID32ID32	787 Source 789 Source 791 Source	analogue channel 1 analogue channel 2 analogue channel 3 analogue channel 4	isaliomatyka ol	is altor all was	<i>3</i>

1359 ID32873, ID32968, ID32977

Device	"Tho				
Description	Ma	The same of the sa	200	200	
Class	alite			alle	
Drive Behaviour	(g)	(1)	(4)	(0)	3
Device Behaviour	System run-up a	ported	12/20	The same	1200
Additional Error Infor	mation (AMK Servi	ce)	4		4
9	3	Cfg_azea()	, option place analysis,	AZ-EA	A
Error removal	0%		baltomatric	, bailomar	(b)

1360 Opt.1 ID32846, ID32855, ID32864

Davids a 19	14,	Ď,		-747.	-12/-
Device	-174	7/1/2		-U.,	-100
Description					
Class	9	9	9,	3	3
Drive Behaviour	Mrs.	"The."	"Ma.,	"Tho.	
Device Behaviour	System run-up abo	orted	"Way.	-Cign.	3
Additional Error Info	mation (AMK Service	e)	7/10	Nic.	all le
1900	.0	8	SO.	. 000	1900
Error removal	Recheck paramete			Way.	un.
	ID32855 OID32864 O	utput port 2			

1361 Opt.2 ID32846, ID32855, ID32864

The output por	t 520 527 is configured several	times	14/10	27/0
Device	71,	21/4	200	21,
Description				
Class	788	195	18.5	
Drive Behaviour	aid" aid"	21/1	201	_0
Device Behaviour	System run-up aborted	,017	2017	70%
Additional Error Infor	mation (AMK Service)	70%	.1000	.1070
M. 19	" NO	'4' _C O	'W'.	7/10
Error removal	Recheck parameters:	21/11	77,00	21/4
	 ID32846 Output port 1 			
ag)	ID32855 Output port 2			
raff.	ID32864 Output port 3			

1362 Opt.3 ID32846, ID32855, ID32864

t 528 535 is cor	nfigured several times	1 ₁₂₀ . '12		1720.
4	4	4.	4	
	8	9	8	
Max.	No.x	Max.	No.x	
Sec.	My,	Car.	The same of the sa	a di
System run-up aborted				
mation (AMK Ser	vice)	'92 ₀	(9)°	1900
25	I.,	Up.	4,	My.
• ID32840 • ID3285	6 Output port 1 5 Output port 2	"Afra dy	"Afroigh	
	System run-up rmation (AMK Ser Recheck paran ID32846 ID3285	Recheck parameters: ID32846 Output port 1 ID32855 Output port 2	System run-up aborted mation (AMK Service) Recheck parameters: ID32846 Output port 1	System run-up aborted rmation (AMK Service) Recheck parameters: ID32846 Output port 1 ID32855 Output port 2



1363 Opt.4 ID32846, ID32855, ID32864

Device					
Description					-
Class	9	9		9	9
Drive Behaviour	"Tra."	"The		The.	743.
Device Behaviour	System run-up aborted	T. Carrier	_6	Sp.	C.S.
Additional Error Infor	mation (AMK Service)	7/10	2760		170
9	.88)	.00	(8)	
Error removal	Recheck parameters: • ID32846 Output po	rt 1	un.	nn.	nu nu
	ID32855 Output poID32864 Output po				

1364 Definition of output bits

(9)	1410		71/10	77.00		16	14.
Device		3	45	They	May		2/1/4
Description							
Class		20	28		26,	25	
Drive Behaviour	X	The same	27		To the	il.	
Device Behaviour	System r	un-up abort	ed	×(200	, of the	
Additional Error Infor	mation (AN	K Service)	20972	1080		200	
(0)	Info 1	25	Recheck ID3	2847 ID32872	2	10	
35	7	41	Recheck ID20	6, ID34029	No.		714
		42	Recheck ID30	01, ID303, ID30	5, ID307		
Error removal	• C	heck codes	for binary outputs	, invalid entry	3	9	

1365 AWNR output bit

• The entered Av	number is inadmissible	. (Biri. Outputs)	'(Q).		
Device	The same of the sa				
Description	4.	4		4.	4.
Class	À	Δ.	<i>A</i>		A
Drive Behaviour	No.	No.x	Ma.x		No. X
Device Behaviour	System run-up aborted	1 100 m	Var.	769	0
Additional Error Inform	nation (AMK Service)	"Z ₁₀ .		120	
1900	The s	200	.000	190	2
Error removal	Recheck parameters: • ID32847 ID3	2854 Output port 1, bit	0 bit 7	unu.	un.
		2863 Output port 3, bit 2872 Output port 3, bit			

1366 Definition of input bits

The entered co	ode is inadmissible.	(Bin. Inputs)	700	700 m	79
ID32948 calls		quires further paramete = 24 hex regards BE3	er setting on binary inpu ID32980 = 401 hex)	ut assignment	
Device	7.9%	29.5	798	7.9.5	
Description	201	-2/4	2/4	-314	
Class	Ó.	x05°	.70,	x65°	70%
Drive Behaviour	7	7020	.10 ² 77	70/20	200
Device Behaviour	System run-up a	borted	71/0		77/0
Additional Error Infor	mation (AMK Serv	ice)	la.	t _{La}	The state of the s
Error removal	• ID32969	eters: ID32881 Input port 2 ID32876 Input port 2 ID32985 Input port 3	2, bit 0 7	inalionalyka fil	na italia
	• ID32948	Message 4x32			

1367 ID32883 Opt.place 1

The ID for option	on place 1 was w	rongly configured		30°C	May.
Device	Car.	Car.	Ugi.		Car.
Description	0	"Zio.	2310	"ZC.	270.
Class		190	90,	120	'92 ₀
Drive Behaviour		N ₂₁ .	1120.	Ma.	The state of the s
Device Behaviour	System run-u	p aborted	1.	A.	da
Additional Error Infor	mation (AMK Se	ervice)		À	2
10 X	15.4	10%	N	9×	10%
Error removal	Sales .	N. A. S.	Na Carlot		A CONTRACTOR OF THE PROPERTY O

1368 ID32885 Opt.place2

 The ID for option 	n place 2 was wrongly	configured	Na.	Mr.	N. Carrier
Device					
Description	20,	20	20	0	3,
Class	THE STATE OF THE S	No.	THE STATE OF THE S	10%	6
Drive Behaviour	S	*QLL	,0f1	,000	, of C
Device Behaviour	System run-up abort	ed	Najo.	200	Nan.
Additional Error Inform	nation (AMK Service)		74.CO.	74 ⁷ (O)	74,0
122	N. C.		44,	My.	224
Error removal					

1369 ID32885 Opt.place 3

The ID for option	on place 3 was wrongly configu	ured					
Device	.68		. 900		. Op.		190
Description	The state of the s		and a	. 2	14.		and an
Class	7		120	2.		7	
Drive Behaviour	>	A		À		A	
Device Behaviour	System run-up aborted	10.7		163.4		163.7	
Additional Error Infor	mation (AMK Service)	3	, d	900	180	27	
	9		760		7/0,		110
Error removal	,8°°°		.300		,90°		.860



1370 ID32886 Opt.place 4

Device	C*				
Description					
Class	9,	9		9	9
Drive Behaviour	"Tho."	"Ma.,		Mr.	"This."
Device Behaviour	System run-up abort	ed 🔣	_6	80.	The state of the s
Additional Error Infor	mation (AMK Service)	770	2/10	,Š	0
32	90	35	(9)	180	
Error removal	44	74°	The same	11/41	-7 ₁₄ ,

1371 ID32799 Standard Periphery

 "ID32799 Confi 	iguration Standard	periphery" was wror	ngly configured	7	ig,
Device	10	10	70%	705	
Description	700	700	702	700	2
Class	4	4/10	14/2	"My	1/2
Drive Behaviour		21,	20,	Il.	274
Device Behaviour	System run-up al	borted			
Additional Error Inform	mation (AMK Servi	ce)	,S	3.5	
3.7/2	200	201	35	14	A. A. C.
Error removal	, of 1	, of 1	, of 1	70%	

1372 Optional place 1 card defect

 Option card rep 	orts defect				
Device	AS-PL	9	8	\	9
Ethernet may be	e configured only in o	ne instance	Tho.	.31	TO
Description	760	W.	all in	The same of the sa	
Class	NIL.		100	3/10	
Drive Behaviour	Drive runs down	(0)	(4)	(1)	3
Device Behaviour		The state of the s	71/20	Ma	Ma
Additional Error Inforn	nation (AMK Service	e)			4
9	8	Program stack of	overflow		9
Error removal	16,44	rnet parameterization		16%	0.7
.00	Check sens	al interface parameteri	Zalion		

1373 Optional place 2 card defect

 Option card re 	ports defect	1/1/2	2/2	2/2
Device	AS-PL			
Ethernet may	be configured only in one instance	9. X.	98,	18.S.
Description	(1 ₂)		, S	3,
Class	10,	100	10	
Drive Behaviour	72.0g	N _D	De	
Device Behaviour	System run-up aborted	"M' La	"My	12/1
Additional Error Info	rmation (AMK Service)	770,	Ma.	27
Error removal	Check Ethernet parameteriz Check serial interface parar		×3,	340 'S.

1374 Optional place 3 card defect

 Option card re 	ports defect	.3	07	(0)	(0)
Device	AS-PL	7774		Telega,	71/2
Ethernet may be a control of the control of th	oe configured only in one i	nstance	-		
Description	9	6	6	ò	
Class	The	"The	"The	"This.	
Drive Behaviour	100 m	Car.	M.S.	ALIGN.	35
Device Behaviour	System run-up aborted	,	allie.	all lo	
Additional Error Infor	mation (AMK Service)		95	(1)	(4)
" ULA	Thu.	77/1/4		Talan.	7474.
Error removal	Check Ethernet	parameterization.			4.
8	 Check serial int 	erface parameteriz	ation		

1375 Optional place 4 card defect

 Option card re 	ports defect	100		.300		.350		.200	
Device	AS-PL	Ty.		This is		74/		This.	
Ethernet may be a control of the control of th	oe configured	only in one ir	nstance	27		17		27	
Description									
Class	73.5		73.5		73.5		13.8		
Drive Behaviour	Sign.		1974.		19. A.		May.		
Device Behaviour	System run	n-up aborted	1	. 100		. 80		. 10	1
Additional Error Infor	mation (AMK	Service)		7020		4020		1020	
"M; S		"Up"		74/2		"My		74 ₁	
Error removal	• Che	eck Ethernet	parameter	ization.		270		27,	
	• Che	eck serial inte	erface para	meterization					

1376 ID32882 Optional place 1

 ID32882 or ID3 	32799 wrongly configu	red	- Allie		300	- 2017E
Device	770	3	77,00	770,		77,00
Description	42		44,	277		" The
Class						
Drive Behaviour	9	9		9	9	
Device Behaviour	System run-up abou	rted		The same	"Ato.	
Additional Error Infor	mation (AMK Service	1 200		5	200	25
	50	all le	all lie		1110	allie
Error removal	Recheck parameter ID32799 Co ID32882 Slo	onfiguration sta	andard periphery	May (C)		nunilly.



1377 ID32882 Optional place 2

 ID32882 or ID 	32799 wrongly configured	57	7(0)	770	
Device	20,		744	220	220
Description					
Class	9	9		9	9
Drive Behaviour	The state of the s	The.	The state of the s		Mrs.
Device Behaviour	System run-up aborted	-Car	- Car.		Co.
Additional Error Info	rmation (AMK Service)	"Ilio	2/1/0	all the	
8	300	250	. 60	. 450	3.
Error removal	Recheck parameters: ID32799 Configu ID32882 Slot ass	=	periphery	Vine.	y way

1378 ID32882 Optional place 3

• ID32882 or ID3	32799 wrongly conf	figured	30%	5	70%	Α.
Device	4	41/2	14/10		4/100	14
Description		2/4	27,0	27,	-	274
Class						
Drive Behaviour				200		5,
Device Behaviour	System run-up a	borted	al a	S. C.	T. Carlotte	
Additional Error Infor	mation (AMK Serv	rice)		xol'	xoll a	
10/3/2	1000	1080	201	8	.2007	2
Error removal			andard periphery	n'i	41.C	Madel

1379 ID32882 Optional place 4

Device	S. C.					
Description		"May	14/20	. 25	14.	" May
Class		4-	4.	4-		4.
Drive Behaviour			<i>\</i>	9		
Device Behaviour	System run-up aborted		X	Ma.x	16.4	
Additional Error Inform	nation (AMK Ser	vice)		Nago.	Car.	
ZJO.	" I ₁₀ .	"Igo.),	"ILC.	
Error removal		neters: 9 Configuration standa 2 Slot assignment	ard periphery	ne,	^M id _{De}	May !

1380 ID110, ID111, ID32769

Wrong torque	display standardiza	ition	0,	77,0,	7750
Device	747				
Description		7.			
Class	9	9	9	9	
Drive Behaviour	"Hs.	"M2".	The same	"The	
Device Behaviour	System run-up a	aborted	-Car.	The state of the s	
Additional Error Info	rmation (AMK Serv	rice)	"II'C	200	- Jile
		KM_WRONG	900	. 80	.00
Error removal		verter peak current	si di	n _n	nun.
kadi	A	otor nominal current Magnetising current I _M	140.0	, 16.th	

1381 LIW source calculation

Resolution of actual p	osition value	is outside the	e permissible range	9	M _I	4/6
Device		21,00	27,0	4	M.	213,
Description						
Class	20,		20	20	0	3,
Drive Behaviour	The same		27/1	TO THE	27/2	
Device Behaviour	System ru	n-up aborted	KILL	,0/10	*Ollin	, of C
Additional Error Info	rmation (AMK	(Service)		China China	2002	70/10
71/0		1410	LAM_WRONG)	71/0	77/0
Error removal	• ID' • ID' • ID'	115 Position 116 Resoluti 117 Resoluti 118 Resoluti 121 Load ge	loop KV-factor feedback type on motor encoder on external position on linear encoder fed ar input revolution			
y nan	• ID'	123 Feed co	ar output revolution nstant encoder period			

1382 System diagnostics

W ₂			030	No.		No.	700
Device		" Th'	9	74/1/2	22	41	" Spiles
Description		20		2/2	2/4		270
Class							
Drive Behaviour				7.9.5°	J&S,		2
Device Behaviour	System r	un-up abo	orted	THE STATE OF THE S	The same	Store Store	
Additional Error Infor	mation (AN	IK Servic	e) 🦽	70,		, of	xĊ
. 10 ² 00	Info 1	0	92	"ID32953 encoder type"	defined wrongl	у Да	2020
		7 34	ð	HW revision status ≤ 1.0	3	4.0	4/10
Error removal		200		7/1/2	No.		2724



1383 2PI value wrong

2π value not def	ined	700	160	7792	-35
Device	2.	te, te	14. Tal.	24	120
Description					
Class	9,	6	6	9	
Drive Behaviour	Mrs.	"Mg.,	76.	743.	
Device Behaviour	System run-up aborte	ed	T. St.	T. S.	
Additional Error Inform	ation (AMK Service)	7/10	270	170	
O .	900	PI_IQEA_WRONG	. B	. 600	. <
Error removal	ID117 Resolu	n feedback type ution motor encoder ution external position feed ution linear encoder feedb		in in the state of	Arr.
Sp _{2r}	• ID32776 Sinu	ıs encoder period	'Sp _{er}	Popular	

1384 2PI value calculation

 2π value cann 	ot be calculated		?	Ġ.	
Device	THE STATE OF THE S	27	27/4	_6	ig.
Description	, of C	,o ⁽¹⁾	,0/1	700	
Class	70%	.20875	.2082	.1070	
Drive Behaviour	7) (S)	.4.50	.4.0	21/10	.415
Device Behaviour	System run-up abort	ed	4100	Tr.	2720
Additional Error Infor	mation (AMK Service)				
20	3	PI_WRONG		Š,	20
Error removal	 ID116 Resol ID117 Resol ID118 Resol ID123 Feed 	on feedback type ution motor encoder ution external position ution linear encoder f			

1385 ID116, ID32776 ratio

190	(g)	190		
Device	AZ/AW	12/4	274	" The
Resolver use: I	D 32953 = 3 => ID3277	6 = 128	4.	4-
 Mandatory use 	of AW software ≥ 0210			
Device	KE/KW	KD.	M.	Ma.
 Resolver use: I 	D 32953 = 8 => ID3277	6 = 128	Lat.	Car.
Description	0	20.	60.	The The
Class	'So	100	Š	1900
Drive Behaviour	The state of the s	N.	272.	Try.
Device Behaviour	System run-up aborte	ed	20	10
Additional Error Inform	mation (AMK Service)	Α	À	
153%	163.4	KLIW_WRONG	16,4	16.x
Error removal		connected with encoder tion motor encoder	resolution correspondi	ng to operation mode:
	ID118 Resolu	tion linear encoder feedb	ack	
	 ID32776 Sinu 	s encoder period		
	 ID32934 Puls 	e encoder period		
	• ID32800 AMK	main operation mode		
	• ID32801 ID	32806 AMK second oper	ation mode 1 6	

1386 Output DA1 ... DA4

The output por	rt 544 for DA1 DA	4 is configured s	several times	'4' ₁₀ .	"H ₁ O.
Device	77,74		22	122	2/2
Description					
Class	2	20,		3	20
Drive Behaviour	20/20	27/60	X	9/2°	The same of the sa
Device Behaviour	System run-up a	borted	. offic	,	office of the
Additional Error Info	mation (AMK Servi	ce)	74172	7.00°	7.00 July 1
770	7	0,	77,00	7/0	77,00
Error removal		Output port 1	Mr.	n.	n'n'
"143 ig	~ ~	Output port 2 Output port 3			

1387 ID32846 wrong

24	Thy.		Up.	72/1		Thy.
Device	W.	14,		24,		19
Description						
Class	7.9%	13:5	195		19:5.	
Drive Behaviour	201	A. A	200		3/4	
Device Behaviour	System run-up aborted		100		200	701
Additional Error Info	mation (AMK Service)		70,20	7035		70,50
147.10	"MILO		M. Co	12/10		This said
Error removal	Recheck parameter: • ID32846 Output	port 1		20,		No.



1388 ID32855 wrong

900	(1)	.00	. 88	(8)	3
Device	14°	100	7.27.44	72/2	THIS.
Description			-		
Class	9	9		9	3
Drive Behaviour	Th3.	They.		The	The state of the s
Device Behaviour	System run-up aborte	ed 🧬		Car.	Car.
Additional Error Infor	mation (AMK Service)	770	200	Ö	70
90,	90,	(8)	900	Sp.	
Error removal	Recheck parameter: • ID32855 Outp	out port 2	nn.	nyn,	n _{un}

1389 ID32864 wrong

*Q		,000	.00	100		
Device	.2007	.2087	.50%			
Description	11/0	77/10	71/0	747.00	145	
Class		200	21/2	200	274	
Drive Behaviour						
Device Behaviour	System run-up	aborted	<u>(2)</u>	,Q	20	
Additional Error Infor	mation (AMK Sei	vice)	2014	1/2		
"Ollo	, of C	"OLC "	, of C	,off ¹⁰		
Error removal	Recheck parar	neter: 6 Output port 3	"I'Q ₀	"ilp _{en}	45	

1390 System diagnostics

 NC/LR time no 	ot integral.				
Device	C. The	Mar.	Har.	May.	
Description	770	77.0.	2/10	2/20.	
Class	900	(%)	(9)	(9)	
Drive Behaviour	720	Mu.	Thu.	May.	Tan.
Device Behaviour	System run-up abo	rted	4.	10	1/4
Additional Error Info	rmation (AMK Service	e)	2	2	
160×	F3.x	Ka.x	Max	10%	
Error removal	Recheck paramete ID1 NC cycl ID32958 Cc		districtures	, digalilating	

1391 ID32772 wrong

20,0					
Device	12/h	12/10	27/2		20/10
Description	-0/1°	-9/10	.0170		100
Class	Major Comment	Na _{Da}	7. 12 July 1997	Value.	
Drive Behaviour	7 (0),	71,0,	7/0,	"7' ₁ O".	450
Device Behaviour	System run-up aborte	d	May	2121	The state of the s
Additional Error Inform	mation (AMK Service)				
, di	9	9		Q.	d
Error removal	Recheck parameter: • ID32772 Nomi	nal velocity	Waldy.	, ,	Carlotte,

1392 ID158, ID32771, ID32772

Wrong standar	rdization of comp	arative po	ower Px	7(Q)	7/02		170)
Device		27.0	747	7	744		Tag.
Description							
Class	6		9	6		9	
Drive Behaviour	"The"		"The	"The		"Tho.	,
Device Behaviour	System run-u	p aborted	Car.	Mar	3.	Ø.,	200
Additional Error Infor	mation (AMK So	ervice))	alife	allie		2710
, die		1000	KPX_WRONG	, PX_WRONG	. 450		190
Error removal	Recheck para		reshold Px	20.	n _n		May .
. No.19	0,	71 Nomin 72 Nomin	al torque al velocity	143.0		HO.D	

1393 AW not AZ-compatible

Software levels	s AW, AZ are not co	mpatible	W. Co.	4/0	41/0
	V software level is o does not suit AW x2		n initialization and inco	mpatibility displayed	
Device	9	3	ĝ	9	
Description	A.	Aco	Aro	"The	
Class	300	Mr. Co	W.	W.	200
Drive Behaviour	9	- 21/1/2	- 10 m	- 317E	- 200
Device Behaviour	System run-up a	borted	(0)	700	100
Additional Error Infor	mation (AMK Serv	ice)	they are	THE.	742
Error removal	A	À	À	À	

1394 ID32892: x times 2 to the power 16

 The numerical 	value in ID32892 does not o	correspond to an int	egral multiple of	· 2 ¹⁶	1900
Device	Ty.	The state of the s		74,	"IN.
Description	14,	2,		10,	14,
Class					
Drive Behaviour	7.9%	7.9.2.	795	18.	3
Device Behaviour	System run-up aborted	¹ G,	200	200	2
Additional Error Infor	mation (AMK Service)	_	XO.	10/6	1000
70/2	7025	26	80	70,00	70,50
Error removal	Recheck parameter: • ID32892 Synchro	nous setpoint pulse	s divider	Mayin	nunico



1395 No Main Operation Mode

BA or BA NOT	is generated on system initializa ACTIVATED. The main operatio andary operation modes may als	n mode must alwa	ys be assigned witl	h a valid operatio	
Device					
Description	185	795	795		J. 8. S.
Class	357	2/2/	214	_&_	4
Drive Behaviour	XC. X	of C.	105	705	
Device Behaviour	System run-up aborted		.1075	:1001	
Additional Error Infor	mation (AMK Service)	2	1.00	71/2	.45
202	200	20,0		274	200
Error removal	Recheck parameter: • ID32800 AMK main o	peration mode	, de		. 6

1396 Operation mode not defined

	is generated on system initializa e and / or for one of the seconda			code was entered for	the basic
Device	24	7,	7.	14,	1,
Description					
Class	10%	70 X	70%	10	X
Drive Behaviour	7979	7924	190	190	
Device Behaviour	System run-up aborted	Ò.	10	10	
Additional Error Infor	mation (AMK Service)		7000	No.	
57	14.		14/1	"Mi	"Ay',
Error removal	Recheck parameters: • ID32800 AMK main op • ID32801 ID32806 A		operation mode 1 6	3	<i>4</i> 1,

1397 Operation mode not impl.

	or one of the sec				as entered for the bas ble, but is not yet sup	
Device	11					
Description	105	5.	28.5	793		. 8. P
Class	200		"I'AL	3197	.85	1
Drive Behaviour	*OL	3	Sec.	101	10/01	
Device Behaviour	System run-u	ıp aborted		70,47	7020	
Additional Error Infor	mation (AMK S	ervice)		N/O	"Ayles	al.
T _L ,		My.	7	120	Ma,	120,
Error removal	1,0	300 AMK main o	VI.0.	operation mode 1	6	140.Z)

1398 Setpoint source undefined

This message is generated on system initialization if a code for the setpoint source was entered in one of the ID32800 ... 32809 which is not defined or if a setpoint source was preset which momentarily is not yet available. The code for the setpoint source is only checked if a sensible operation mode code has also been entered Device Description Class **Drive Behaviour Device Behaviour** System run-up aborted Additional Error Information (AMK Service) **Error removal** Recheck parameters: ID32800 AMK main operation mode ID32801 ... ID32806 AMK secondary operation mode 1 ... 6 ID32807 AMK secondary operation mode 7 ID32808 AMK secondary operation mode 8 ID32909 AMK secondary operation mode 9

1399 Setpoint Source (SQ) is Not Admissible in this Operation Mode (BA)

ID32800 328	09 which represents a not pe	ization if a code for the setpoint sermissible combination in conjur nalog command value setting)		
Device	2013	3050	10/3/2	2020
Description				74.10
Class	21/4	27.00	7/4,	N.
Drive Behaviour				
Device Behaviour	System run-up aborted	9	20	
Additional Error Inforn	nation (AMK Service)	- 10° - 10°	79/c	
C	.35	.510	.offi	. 60
Error removal	20	6 AMK secondary operation mod	de 1 6	WANT GOOD
W0.01	• ID32808 AMK seco	ondary operation mode 7 ondary operation mode 8 ondary operation mode 9	Marin Company	

1400 Option Card for Setpoint Source (SQ)

	s generated on system initial 800 ID32809 but the optio	ization if a code for a setpoint on card is not present	t source was selected on a	an option card in
Device	AZ			
 Option card is n 	ot present	. 4.9	, a.S.	
Description	1777	34	The same of the sa	
Class	770x	, of	xoff.	77 _{0x}
Drive Behaviour	1020	.10 ²⁰	10 ² 0 ² 0	2000
Device Behaviour	System run-up aborted	77/20		77/0
Additional Error Inform	mation (AMK Service)	Na.	My,	M.
Error removal	ID32807 AMK secoID32808 AMK seco	n operation mode 6 AMK secondary operation in operation mode 7 ondary operation mode 8 ondary operation mode 9	mode 1 6	



1401 MGQ not selected

This message is one of the ID32		ration if no valid code for the sou	urce of the torque limit was s	tated in
Device	200	29	10	12
Description	2		2	
Class	73.X	10° N	19.5	Α,
Drive Behaviour	"Vigo,	THE STATE OF THE S	La Carlotta	
Device Behaviour	System run-up aborted	10,	10	
Additional Error Inform	mation (AMK Service)	. 250	. 100	
3	4	24,	72/1	747,
Error removal	ID32807 AMK secorID32808 AMK secor	operation mode AMK secondary operation mod ndary operation mode 7 ndary operation mode 8 ndary operation mode 9	e 1 6	4

1402 Source of Torque Limit (MGQ) inadmissible for this Operation Mode (BA)

		lization if a source for the torque tion with the selected operation		the ID32800
Device	7857)	The state of the s	90°)	3
Description	720.	120.	J ₁₀ .	
Class	65, 25	300	'%,	
Drive Behaviour	4, 24,	May.	Nu.	724.
Device Behaviour	System run-up aborted	10	10	14
Additional Error Infor	mation (AMK Service)		2	
108	738	10,3	10 X	NO.S
Error removal	ID32807 AMK secID32808 AMK sec	in operation mode Of AMK secondary operation mode ondary operation mode 7 ondary operation mode 8 ondary operation mode 9	ode 1 6	Man. 1

1403 Source of Torque Limit (MGQ) not implemented

Device	and the second				
Description	4.	4-	4.		4.
Class	<i>A</i>	2/			
Drive Behaviour	No.x	16.	16.4	16.4	
Device Behaviour	System run-up aborted	Nagara and a second	N. S.	N. S.	
Additional Error Inform	mation (AMK Service)	310.	720.	"J ₁₀ "	
92,00	900	,6	0	1900	
Error removal	ID32807 AMK seconID32808 AMK secon	operation mode AMK secondary opera Adary operation mode a Adary operation mode a Adary operation mode a	7 8	Walthard.	nn

1404 Source of Torque Limit (MGQ) AW-analog assigned

			zation if an analog inpu ut is already assigned v			e limit in one
Device		4,	1/2	12,		14
Description			2	2	2	
Class	12.7	3	£0.×	12×	12.7	
Drive Behaviour	130	. A.		20	Carlo.	
Device Behaviour	System run	-up aborted	760		10	10
Additional Error Infor	mation (AMK	Service)	1900	.80	,o-	-90,0
"Ay,		727.	Th,	74,		Thy.
Error removal	• ID3 • ID3 • ID3	2800 AMK main 2801 ID32806 2807 AMK secor 2808 AMK secor	operation mode AMK secondary operandary operation mode andary operation mode 8 andary operation mode 9	7. N. S.		

1405 Speed Ramp (DZLRMP) function missing

ID32809 which Device	Mach .	E. Ville		\$50°
Description	10 Mg.	7/ ₀)	⁷² 6),	7/6,
Class	1900	780	190	'90,
Drive Behaviour	77/4.	7/1/4	The state of the s	My.
Device Behaviour	System run-up aborted	1/2	10	1/2
Additional Error Infor	mation (AMK Service)		2	
10%	NO.X	VOX	13.7	10%
Error removal	ID32807 AMK secID32808 AMK sec	in operation mode Of AMK secondary operation ondary operation mode 7 ondary operation mode 8 ondary operation mode 9	on mode 1 6	WALAN TO STATE OF THE STATE OF

1406 Speed Filter (DZLFLT) function missing

	is generated on system initializants is not implemented in the exist		is stated in one of the ID	32800
Device	The state of the s	The same	ala.	ale.
Description	7	4.	4,	4.
Class	<u> </u>	2	À	
Drive Behaviour	16.2	9.7	163.	
Device Behaviour	System run-up aborted	Tight.)	N. S.	Ž.
Additional Error Infor	mation (AMK Service)	7/20,	"J ₁₀ "	.310.
1900	1.200	1900	1900	1900
Error removal	ID32807 AMK second	AMK secondary operation mode dary operation mode 7 dary operation mode 8	e 1 6	Man.



1407 Selected Operation Mode (BA) not configured

This message is generated on an operation mode change if the selected operation mode number was not yet configured.					t which
Device	42	10		A.	20
Description		2		2	
Class	N3-X	10.7	10.8	12.5	
Drive Behaviour	790	Naga.	N. S.	1979	
Device Behaviour	System run-up aborted	10	10	10	
Additional Error Inform	mation (AMK Service)		No.	100	
7,	3, 23		14h	74/	741
Error removal	Recheck parameters: • ID32800 AMK main • ID32801 ID32806		peration mode 1 6	19.00 P	4,

1408 Change of Operation Mode (BA) not executable

 This message 	is generated on an operat	ion mode change	e if the selected BA can	not be executed.	77.6
Device	The state of the s		21/4	2124	The state of the s
Description					
Class	9	9	Š	3	9
Drive Behaviour	"The	The	"Aro.		The
Device Behaviour	System run-up aborted	Milio	W.	<u> </u>	60
Additional Error Info	mation (AMK Service)	- 2/2	- 10 m	- 3/1/2	
S. C.	7/0,	300	7/02	7/02	255
Error removal	Recheck parameters: ID32800 AMK n ID32801 ID32	•	ode dary operation mode 1	6	y m

1409 Selected AW No. not active

This message in the state of the state	is generated on	s not activated or not pre	not present.		
Device	47	Thy.	The same of the sa	" My	The.
Description		27	27,	W.	14
Class					
Drive Behaviour	7.8.5		198.	18.5	
Device Behaviour	System run-u	o aborted	290	200	
Additional Error Infor	mation (AMK Se	rvice)	10/2	201	
70 _{20.}	722	70,50	7025	70,50	,
Error removal		te AW No. through "ID328 t command a not existing		NAN, S	May

1410 Selected Parameter Set

 Selected param 	neter set not def	ined	office	-OKTO	
Device	~and	~9 ₂	7.41 ₂₂	~9 ₁₁	
Description	7/07	77,0),	7/0,	77;0),	77.6
Class	9	Hu.	The state of the s	un.	May
Drive Behaviour					
Device Behaviour	System run-u	p aborted	9	6	
Additional Error Inform	nation (AMK Se	ervice)	Afron.	"Tho.	
AL ST.	200	The state of the s	ALIO .	ALIO .	
Error removal	-350	-976		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

1411 Type of Position Controller is Inadmissible

The selected p	oosition controller type is mor	mentarily not a	available or not perr	nissible	(0)
Device	222	2.	274	The same of the sa	274
Description					
Class	9	9	9		9
Drive Behaviour	Tho.	"This.	Mrs.		1000
Device Behaviour	System run-up aborted	\$	- Car.	The state of the s	
Additional Error Info	rmation (AMK Service)		allio.	2/2/0	
. 600	. 350		. 65°	. 050	.00
Error removal	Thu.	.6	t _{tta} .	ala.	"A _{II} "

1412 Type of External Encoder inadmissible

The selected ty	pe of the external encoder sys	tem is not permissible.	196	
Device	9	101	101	10
Description	7000	1000	702	72/20
Class	'M'.	"M'	74/100	74/100
Drive Behaviour	27	2/4	200	2700
Device Behaviour	System run-up aborted			
Additional Error Inform	mation (AMK Service)	. A.S.	2	g.(?)
-30/c	10,00	" Alle	25	-
Error removal	Diagnostic message operation mode paraRecheck parameters		vith a position control s	selected in the
y way	• ID32800 AMI	ernal position feed back sou K main operation mode 032806 secondary operation		

1413 Missing option card

	command value source option card, wrong slot o		peration mode para	meter	"11/Q00"
Device	the state of the s	11/4		Ma.	7/1/4
Description					
Class	20,	28	20,	0	9
Drive Behaviour	30/2	20/2	20/2	Alexander of the second	
Device Behaviour	System run-up abor	rted	-0Kg	, of Co	
Additional Error Infor	mation (AMK Service)	Para	Na _{Da}	797	787g
77,0	77,00,		1.60.	7/0	710,
Error removal	Recheck parameter		aration made 1. G	My,	My,



1414 Unknown AW type

parameter, i.e	is reported if an AW module . the AZ detects an AW the fu	nction of which	is unknown to it.	May.	eration mode	
This error can Device	arise if, for instance, an olde AW AZ	r AZ software ve	ersion does not suppo	ort new types of AW	201	
Description		19 ₁₀		Š	a de la companya della companya della companya de la companya della companya dell	
Class	10 Kg	×94.	,0 ⁽¹⁾	, of		
Drive Behaviour	2000	1927	10 th 2	:535	2	
Device Behaviour	System run-up aborted	9	71/0	77,00	45	
Additional Error Info	rmation (AMK Service)		2/2	2/2	To An	
Error removal	3	3		Š,	3	

1415 Wrong AW type

The inverter does	es not support the sta	ated operation mo	de (ID32800)	. 35°	
Device		"ata,	12/1/4	12/1/4	The same
Description		4-	4.	4.	4.
Class	8		<i>A</i>	8	9
Drive Behaviour	16.	16	>.x	160.	Ma.
Device Behaviour	System run-up abo	orted		The state of the s	The same
Additional Error Inform	nation (AMK Service	e)	700		20.
900	900	200	(30)	'92',	
Error removal	9	My.	7/4,	7744	The state of the s

1416 Change of Operation Mode inadmissible

 This message operation 	is reported if it is	attempted to change t	he operation mode on a	an inverter module for p	parallel
Device	~ dille	Zalit.	- Allie	~ Name	
Description	7 0,	770	770),	7/0,	22.
Class	E.	" The	"Tyla,	Tale.	242
Drive Behaviour		-		-	
Device Behaviour	System run-u	p aborted	9	9	9
Additional Error Info	rmation (AMK Se	ervice)	3.	To.	Mrs.
Co.	The state of the s	Thur,	The state of the s		200
Error removal	alife	200			

1417 System diagnostics

Device	AZ				
Description	78 <u>7</u> 7.	750	790	Sept.	
Class	101	10	10	10/1	
Drive Behaviour	70gg	YOS.	70,00	702	
Device Behaviour	System run-up aborte	d	"M's	''4 ₁ ' ₁₀₀	(4)
Additional Error Info	rmation (AMK Service)		The.	M _o	71,
Error removal	20	main operation mod 32806 AMK seconda			3.0

1418 System diagnostics

The chosen or	peration mode cannot be m	apped	5	7/10	770
Device	AW	The state of the s		THE.	The same
Description		- 4		-	
Class	9	9	9	2	<i></i>
Drive Behaviour	They	740.	Thou	The.	
Device Behaviour	System run-up aborted		T. S.	The state of the s	.6
Additional Error Info	rmation (AMK Service)		The same	770	2760
190	.00	, Č	5	S. C.	(1)
Error removal		nain operation mode		1 6	Na.

1419 System diagnostics

 Speed filter ac 	tivated but parameterised v	wrongly	,	70,00	7000
Device	AZ	4/10	141	9	" Ayles
Description	20,	20,	27,0		21,
Class			,		
Drive Behaviour			3.5	200	
Device Behaviour	System run-up aborted	Toll Toll Toll Toll Toll Toll Toll Toll	77/4	T. C. L.	
Additional Error Info	rmation (AMK Service)	,	011	*OLL	No.
18/81	2022	Check_dzlfilt()	-	10/3/2	:075
Error removal		nain operation mode 806 AMK secondary o	peration mode 1 6	S)	Mayle

1420 System diagnostics

Device						
Description		Ma	14/44	"Try,		Trans.
Class		4.	4-	4.		4.
Drive Behaviour			À	À		
Device Behaviour	System run-	-up aborted	Marie	No.x	16.4	
Additional Error Info	mation (AMK	Service)	Car.	Var.	N. S.	
	50	170	Check_dzlrmp()	70,	"710.	170
Error removal	• ID32 • ID32	2780 Accelei 2781 Decele 2800 AMK m	100	operation mode 1 6		



1421 System diagnostics

 "ID82 Positive 	torque limit" faulty		S. S	
Device	Z _A	12/4	220	and a
Description				
Class	9,	9	9	9
Drive Behaviour	"Tra."	"Mar.	"Tho."	"The."
Device Behaviour	System run-up aborted	1 (6)	Car.	Mar.
Additional Error Infor	mation (AMK Service)	NIGO .	The same of	NIGO TO THE PARTY OF THE PARTY
8	190	Check_momgrp()	. (S)	
Error removal		main operation mode	nun.	y why
No.	• ID32801 ID3	2806 AMK secondary operat	tion mode 1 6	

1422 System diagnostics

Device	The state of the s				
Description					
Class	3.0		0	8,	200
Drive Behaviour	P	20/2	19/4		T. C.
Device Behaviour	System run-up aborted	70%	, of C	х(200
Additional Error Inform	mation (AMK Service)	1000	70/20	200	
(0)	14. O	Init_cfglist()			42.
Error removal	Recheck parameters:		712,	No.	21 to
	 ID32800 AMK m 	ain operation mo	ode		
	• ID32801 ID32	806 AMK second	dary operation mode	1 6	

1423 Inadmissible Setpoint Source

 This warning of 	occurs on analysis of the ID3294	48 Config. AZ messa	age	S. S.
Device	AZ	12/2	" My	"The
Possibly AZ-IC	G option card not present	4-	4.	4-
Description	8	8	9	8
Class	W.	Mo.x		W.
Drive Behaviour	100	May,	The same of the sa	The state of the s
Device Behaviour	System run-up aborted	70.	11/0	7770.
Additional Error Info	rmation (AMK Service)	,	1900	. J.
	72,	Tr.	1	The state of the s
Error removal	Recheck parameters: ID32948 Message 4 ID32800 AMK main ID32801 ID32806	operation mode	eration mode 1 6	284K217

1424 Inadmissible Setpoint Source

 This warning of 	occurs on analysis of the ID3	2948 Config. AZ me	ssage	700	79
Device	222	244		220	The.
Description	,				
Class	9,	9	6	<	3)
Drive Behaviour	Tho.	. Ho.	Mar	"The	
Device Behaviour	System run-up aborted	\$1,	-Con-	-Con-	
Additional Error Infor	mation (AMK Service)	6	illio.	Nigo.	
. (100	. 400	. 80		(Q)	. 300
Error removal	Recheck parameter: • ID32849 Message	e 4x32		Mulu.	Muy.

1425 ID55 only 0, 5, 9

 Position polarity 	may be selected only pair-wise (s	setpoint / actual value)	100	10,
Device	,200	700	702	702
Description	W.	74/2	"Williams	"Miles
Class	24,	274	77.0	274
Drive Behaviour				
Device Behaviour	System run-up aborted	36	13.27	
Additional Error Inform	nation (AMK Service)	-3/4/	- 9/4/	_0
200	300	2017	, of 1	707
Error removal	Recheck parameter: • ID55 Closed loop polarity	y parameter	Idbaid	"Milghan

1426 ID121/122 wrong

The gear facto fulfilled.)	rs ID121 and ID122 c	annot be implemented.	(The marginal cor	nditions for the scal	ling factors are not
Device	AZ	10,	100	100	110
Description	.6.	00	900	190	1900
Class	"Ity.	74		24,	27.
Drive Behaviour	27,	11,		10,	M.
Device Behaviour	System run-up abo	orted			
Additional Error Infor	mation (AMK Servic	e) (8)	197	S.	9:5,
20	"Self.	20,	"Alah	"Sich.	2
Error removal	. C	ers: d gear input revolution d gear output revolution	(q) alitor	"Higharia.	Wildhaltor.

1427 ID44 inadmissible

 An inadmissib 	le bit combination	on was set in "ID44	Scaling of velocity	data"	72/ ₁₀	
Device	200	"Ollico	offic.	7	946,0	E.
Description	200	~ Sign	~ Marine	~9 ₂	in the state of th	
Class		77,00,	77,00,	77,01,	77.10	
Drive Behaviour		True Contraction of the Contract	The state of the s	2274	" Tale.	
Device Behaviour	System run-ı	up aborted				
Additional Error Info	mation (AMK S	ervice)		9	9,	
760.	740.	Mr.		Tho.,	Mr.	
Error removal	3000	-0,00	-CC	,	Co.	Ó



1428 ID86 inadmissible

 An inadmissible 	e bit combination was se	et in "ID86 Torque d	ata scaling"	7/92	250
Device	2	24.	Teles.	24,	The
Description				-	
Class	9	9	(3)	9
Drive Behaviour	The same	"Thou	The	1	3
Device Behaviour	System run-up aborte	ed (Carrie	-K.D.,	The state of the s	
Additional Error Inform	mation (AMK Service)	770	NI CO	770	
O. C.	900	. 50	. 89	. 30	5.
Error removal	2,	the.	714.	714.	The same

1429 ID160 inadmissible

~~~	ele bit combination was		~~~		1
Device	ence must agree with	ine position data re	lerence III ID70 Positi	on data scanny	
Description	'4 _{C.}	- N.O.	'W'.O.	W.C.	145
Class	12.	2/4,	21/2,	114,	7/2,
Drive Behaviour					
Device Behaviour	System run-up abo	orted	5,	~ 'S,	25,
Additional Error Info	rmation (AMK Service	e) 20 ¹	Pag		100
, or	"OLE	"OLCO	.050	-0K**	
Error removal	Contract of the contract of th	ers: on data scaling ing method acceler	ation data	NAME OF STREET	ann tr

# 1430 Position scaling

	t through the position scaling parame er resolution cannot be implemented.			
Device	120			
Description	73	74/2	"Up.	7747
Class	12	2/1/2	Va.	27
Drive Behaviour				
Device Behaviour	System run-up aborted	18 ₅ ,	19.S.	7.9°S.
Additional Error Infor	mation (AMK Service)	200	7.5	3
NO.	100	70/	10/1	
Error removal	Recheck parameters:  ID77 Translation position s  ID78 Translation position s  ID79 Rotatory position reso  ID121 Load gear input revo  ID122 Load gear output revo  ID123 Feed constant	caling exponent olution olution	the state of the s	Magi

# 1431 Velocity scaling

		locity scaling parame ne scaling factors are	eters ID45, ID46 as well a not fulfilled)	as ID123 cannot be imp	lemented.
Device	-3	La .	10,	20	14
Description		2	2	2	
Class	12.7	10.7	19.3	13.5	
Drive Behaviour	Caje)	Cally.	Valle,	No.	
Device Behaviour	System run-u	up aborted	10	10,	"HOLL
Additional Error Info	mation (AMK S	ervice)	.200	'Nigo	190
72/1		741	24,	741	74/.
Error removal	• ID46	rameters: Velocity scaling factor Velocity scaling export 3 Feed constant		N.	The state of the s

# 1432 Velocity scaling IPO

implemented.		4.	rs are not fulfilled)	as well as ID121,	, ID122 or ID123	cannot be
Device	10.5		a R	13.9	70'5	
Description	20	7.5%		90	Nigh.	
Class		10	105		10	10
Drive Behaviour		1000	. 100		700	.70%
Device Behaviour	System ru	n-up aborted	24/2	74/		"My
Additional Error Inform	nation (AMK	Service)	21,	Th.		27.
			\$			
Error removal	VI.0	parameters:	\$ ²			
Elega.	• ID4 • ID4 • ID4	45 Velocity scaling 46 Velocity scaling 121 Load gear inp 122 Load gear ou	g exponent out revolution tput revolution			
The same	• ID'	123 Feed constan	t 🚜 "			

# 1433 Torque scaling

Device					
Description	-12 th	and the same of th	4.	"Hay.	"u _{ll} ".
Class	12,	1/2		14,	17.
Drive Behaviour					
Device Behaviour	System run-up a	borted	10.8	13.	5.
Additional Error Infor	mation (AMK Serv	ice)	790,	190	
	(O)	10	101	10	10
Error removal	ID94 Tor	eters: que scaling factor que scaling exponent eed constant	⁷⁷ / ₂₆	Muhilipos.	MANIFED SE



# 1434 Acceleration scaling

	t through the velocity scaling The marginal conditions for t			1, ID122 or ID123 canı	not be
Device	4,	40		4,	2,
Description	2	2	2	2	
Class	10.8	10 ×	NO.S.	10.5	
Drive Behaviour	VII.0)	Na Carlot	Valley.	Val.	
Device Behaviour	System run-up aborted	10	10	10	
Additional Error Inform	mation (AMK Service)	50-	190°	190	
	24	74		741	24,
Error removal	Recheck parameters:  ID161 Acceleration  ID162 Acceleration  ID121 Load gear in  ID122 Load gear of  ID123 Feed consta	n scaling exponent nput revolution output revolution	italionatika il	Walternarika di	74

#### 1435 ID76 inadmissible

An inadmissible	e bit combination was set	in "ID76 Position d	ata scaling"		9
Device	"The	"The	"Aso.	12	0
Description	allio allio		N. C.	- Kro	
Class	-215c	200	- GINE	-3/2	
Drive Behaviour	, (S)	(0)	7(0)	70,	250
Device Behaviour	System run-up aborted		The state of the s	720	744
Additional Error Inform	mation (AMK Service)		4		
9	9	9	9		9
Error removal	Recheck parameter:  • ID76 Position da	ata scaling	Mary Mary	Meig _D	

#### 1436 Decade switch

	decade switch inadmissible tion of binary input				
Device	28	28	<u> </u>	3	28
Description	19/6	The same	37/2	,	19/2
Class	.off'0	-0/L	.0[7]	.65	9
Drive Behaviour	Maria .	V972	787g	Malle	
Device Behaviour	System run-up aborted	5	7:00	7750	45
Additional Error Infor	mation (AMK Service)		21/2/2	May.	21/4
Error removal	8	- 6	è	<u> </u>	8



### 1437 Configuration of Software Pulse Transmission (SIWL)

- Setpoint source in ID32964 inadmissible
- Inadmissible external actual position value selected; see ID32800 et seq.

Encoder resolu	ition is not compatit	ne with ID32966 a	na 1032967			
Device	9	9		9	9,	
Description	Mrs.	"Yes."		Ma.	"Tho."	
Class	(C).	Mig.	E. S.		Mar.	200
Drive Behaviour	9	270	alic	8	300	2/10
Device Behaviour	System run-up al	borted	. GD.	.00		(g)
Additional Error Inform	mation (AMK Servi	ce)	West,	" Alda		Mar.
4.	4		1.	4.	4	
Error Removal	À	À		2		

13.	M. S.		Contraction of the contraction o	C3.	The same of the sa	35.
Device	KW-R06	2/10		-	No.	776
Description		190			8	190
Class	Warning	71/4	2/4/2	Mai,	3	144
Drive Behaviour						
Device Behaviour	9		S)	9	9	
Additional Error Infor	mation (AM	K Service)	Thomas	Ar.	"The	
Ç.	Info 1	13	The encoder frequency maximum value.	for the observer filt	er is greater than 87	7,5 % of the
HAM I GO	Error Rer	noval	Reduce "ID34259 Maxi Line counts"	The state of the s		"ID34251
d)	2	19	Verification is not possi The encoder frequency the maximum value.		•	7,5 % of
WALT THE T	Error Rer	noval	"ID34251 Line of Verification is not Reduce speed	counts" ot possible until cor	ing frequency" or in intinuous operation increase "ID34254	



Class	Error	4.	79 ₂₀ .	792,
Drive Behaviour	10		10,	10/2
Device Behaviour	System ru	ın-up aborted	700	700
Additional Error Infor	mation (AM	K Service)	No.	"H _{1.2.} "H ₁
2/2	Info 1	1 3	No valid encoder chosen in "ID34250 SIWL	source"
		2	"ID34252 Offset Position Index" ≥ "ID34251	Line counts"
7.9%		3	"ID34251 Line counts" = 0	7.8°C
214	-30	4	"ID34251 Line counts" ≥ 2 ²² => More than 2	2 ²⁴ increments
,000	XOC.	5	With bus encoder no line counts are specifi	ed <u>ko</u>
	10805		("ID34255 SIWL Modulo IN" > 0)	
3)	74/0	6	"ID34256 Filter observer" time constant is in	admissible
	7.	The state	(600 μs ≤ ID34256 ≤20 ms)	
		7	"ID34259 Maximum scanning frequency" of	SIWL output encoder is
		9	inadmissible	
The.		160	(1 kHz ≤ ID34259 ≤2 MHz)	The state of the s
Har.	-43	8	"ID32953 Encoder type" is not a valid encoder	der type as SIWL source
	allo.	9	"ID32953 Encoder type" is inadmissible as	SIWL source
30,	900		e.g. sensorless encoder or V/f-operation mo	ode
3	Error Ren	noval	Recheck parameters	Try.
To.		14	"ID34253 SIWL Factor" is 0 or too large	1,
λ		15	"ID34254 SIWL Divisor" is 0 or too large	Δ.
12.7	Error Ren	noval	Reduce ID34253 and ID34254 with	the same factor
	285		• ID34254 ≠ 0	



70.	MD.		Mg.,	73.,	150.	1
Class	Error		200	The same	- Alle	
Drive Behaviour	Controlled	d Braking	10,	1101	110	. 10
Device Behaviour		. 6.	000	.70%	100	'Ago.
Additional Error Inform	nation (AMI	<b>Service</b>	e)	THI.	Mi	"Ly's
71,	Info 1	12	The encoder frequerotation can invert.	ency for the observer	filter is too large. So	the sense of
Variation of	Error Rem	noval	counts"  Verification is not p	Maximum scanning f	ous operation	
'gh _{alle}		18	The encoder frequerotation can invert.	ency of the output en	coder is too large. So	the sense of
"Magi	Error Rem	noval	"ID34251 L Verification • Reduce sp	34259 Maximum sca ine counts" is not possible until deed 34253 SIWL Factor"	continuous operation	The state of
ilg.	C _C C	20	~ ( ) ·	ge, the following erro		, Jid
Error Removal			<ul><li>Reduce sp</li><li>Increase ID</li><li>Reduce ID</li><li>Increase ID</li></ul>	34259 34253	Wath Co.	North Id.
regy.	lights.	23	actual position value	of a bus encoder "ID3 ue > Modulo IN + 1 is possible until continu	reported.	exceeded. An
"HH'IQ);	Error Rem	noval	Recheck ID     Recheck m	034255 odulo calculation	"Myldbo	.441db/s
Error Removal	• ID.	32953 Ei 34250 SI 34251 Li 34252 Oi 34253 SI 34254 SI 34255 SI 34256 Fi 34257 SI	ers in general: Incoder type WL source Ine counts Ifset Position Index WL Factor WL Divisor WL Modulo IN Iter Observer WL Control WL Status			
	• ID:	34259 M	aximum scanning fro	equency		

# 1438 Band width barrier

<ul> <li>Band width ba</li> </ul>	rrier is not configu	rable			
<ul> <li>Inadmissible e</li> </ul>	ntry in "ID32932 E	Barrier frequency" or "I	D32933 Band width"		
• ID32933 > ID3	2932				
Device	The same	Car.	Car.	The state of the s	26
Description	50	alife	alic	alife	allie
Class		190	(g)	(g)°	190
Drive Behaviour		le.	The state of the s	"III"	ale.
Device Behaviour	System run-up	aborted	4.	4.	4.
Additional Error Infor	mation (AMK Sei	vice)	À	A	
Max.	16.0	Ma.x	Ma.x	No.x	
Error Removal	Recheck parar	neters:	Car.	The state of the s	, ć
3	• ID3293	2 Barrier frequency			
(1/2°)	• ID3293	3 Band width			



# 1440 Data record changed

Device						
Description						
Class	9	9		9	9	
Drive Behaviour	The.	"This."		Ho.	The same	
Device Behaviour	System run-up aborted	-C.	_C(2)	77	C. S	
Additional Error Infor	mation (AMK Service)	770	allie.		9	
900	800	. 50	. 650	. 30		
Error Removal	Recheck parameter:  • ID32996 Data s	signification	Hale.	N. N.	n _n	

# 1441 Clock synchronization

Device	70 ⁵⁰					
Description	100	. 4	1/2	14/10	'4 ₁ ',	45.
Class		27,2		20,	25,	21,0
Drive Behaviour						
Device Behaviour	System run-up aborted					
Additional Error Inforn	nation (AM	K Service)	27	X	The same of	il.
x0[1]	Info 1	1	SERCOS parar	neterized as clock	master and ACC as clo	ck slave
10/20	70%	2 SERCOS parameterized as clock master and PLC as clock slave				
0	3 PLC parameterized as clock master and ACC as clock slave				ave	
Error Removal		11/2	•	7/4	7/1/4	7/1/4

# 1442 SEEP configuration

Device	all the						
Description			(9)	. 45	(1)	_ <	
Class	Tr.	3	172,	14/14	"Pla	"ALL	
Drive Behaviour		4.		4-	4.	4	
Device Behaviour	System run-up aborted						
Additional Error Info	rmation (AMK	Service)	K	74	O.X	10.7	
N. S.	Info 1	1	Test overlo	ad time cell 20014, 200	18 and 20024	1	
Error Removal	10,		160	1/0,	10,		

# 1443 Test generator

Device		The same	71/2	742		722
Description			- 1			
Class	9		9	9	9	
Drive Behaviour	Mrs.		. No	Mrs.	Thou	
Device Behaviour	System ru	ın-up aborte	d Co	Mile.	The same	
Additional Error Infor	mation (AM	K Service)	23	9	NIGO .	2/1/2
(18)	Info 1	1 (0)	"ID34044 TG Configu	ration list" too large	(actual size > 32	2 bytes)
		2	Faulty configuration	" Critical		" California
		3	RF can't be activated	by the test generate	or	4.
		4	DC BUS enable(UE)	is missing	7	
	160.14	6	Amplitude "High" < Ar	mplitude "Low"	160.4	
	Cape.	7	Unused signal destin	ation	Na.	
	60	8	Incorrect frequency	Ò,	720.	110
		9 %	Status "Init function"		900	.800
		10	Parameters write / rea	ad error		724
		11	System booting could	I not be executed		24
		12	Change of operating	mode could not be	executed	
	10.5	14	Memory error for sine table			
	19.	15	SBM System ready is missing			
	10	16	Ramp for trapezium fu	unction could not be	executed	76
		19	RF disable after test of	generator is started	1000	7000
Error Removal		. 41.	14/2	.41	72	41/2

#### 1444 PWM frequency

1444 P WWW ITEQUE		C D\404.6	755,	758		, S.
<ul> <li>Incorrect param</li> </ul>	eter setting	g for PWM free	quency	10%	Pa	
Device	E. C.		Older.	.off*	-017°	~ d
Description						
Class		71,00		10,	710,	7/0,
Drive Behaviour		212/2	TIN,		un.	N _H ,
Device Behaviour	System r	un-up aborte	d			
Additional Error Inforn	nation (AN	IK Service)	9	9		9
The.	Info 1	0	"ID34048 PWM	frequency" does	not contain 4 kHz o	r 8 kHz
10-	3000	1	4 kHz values in	the device SEEI	are invalid	
Error Removal		-21/2	9		-475	
Device	KE	"10,	-4	199	"F(Q),	71/0),
Description		Ma	71,71		M	May
Class						
Drive Behaviour	9		- g	Q.		9
Device Behaviour	System r	un-up aborte	d Are	Thomas	12	
Additional Error Inforn	nation (AN	IK Service)	A.C.		AL.	ć
-920	Info 1	0 3	ID34048 'PWM	frequency' does	not contain 8 kHz	-972
Error Removal		(400)		(3)	(0)	(10)



#### 1445 Current controller

			~0			
<ul><li>Incorrect param</li></ul>	eter setting fo	or current				
Device		The state		12/2	The state of the s	THE STATE
Description				-		
Class		9	9	9		9
Drive Behaviour	74	Ò.,,	740 m	Thou	- A	8.
Device Behaviour	System run	-up aborted	T. Carlo	Car.	T. S.	
Additional Error Inforn	nation (AMK	Service)	770	27/10	170	
S. C.	Info 1	0	Kpi in Q controller r	not workable	190	
		1 35	Kii in Q controller n	ot workable	ala.	Trans.
4,		3	Kpi in D controller r	not workable	4,	4,
A		4	Kii in D controller n	ot workable		2
12,4	14	5	"ID34151 Kp currer	nt Q" = 0;	N	\$ X
	Sign.		"ID34152 Kp currer	nt D" ≠ 0		
Gerät	KU-/KW-	R03	710	70	70	
1900	Info 1	2	"ID34051 Kp currer	nt D" = 0;	1900	. (
	4	120	"ID34052 TN curre	nt D" ≠ 0		
Error Removal	Recheck p	arameters:	4	17.	27,	24,
	• ID3	4051 Kp curi	rent D			
	• ID3	4052 TN cur	rent D			
	• ID3	4151 Kp curi	rent Q			
		4152 TN curi				
~~	- C-					

#### 1446 EF can not be activated

	s selected in "ID32901 Glo	bal service bits" l	out the controller card do	es not meet the hardwa	re
requirements					
Device	16.4	M. J.	Mo.	"No.	
Description	The same of the sa	Mar.	Kar.	Car,	
Class	7/20.	"Zio.	1/10	7/20.	
Drive Behaviour	100	90,	(1)	1200	
Device Behaviour	System run-up aborted		7/4,	My.	Th.
Additional Error Inform	mation (AMK Service)		13	10	20
Error Removal	Recheck parameter:  • ID32901 Global s	convice hits	The state of the s	240.h	

## 1447 Motor encoder gear

<ul> <li>The result of the</li> </ul>	ne calculation (ID327	76 * ID32961)/3296	30 must be an integ	er value.	10,0
Device					
Description	20		3	20,	28
Class	27/6	N. Carlot		27/2	2/6
Drive Behaviour	-01C	-01/10		10	-01/L
Device Behaviour	System run-up ab	orted	731J		1970
Additional Error Info	rmation (AMK Service	e) <u></u>	7/0,	7:0	25
25	7.	The same	The state of the s	TI,	The state of the s
Error Removal	Recheck paramet	ers:			
	• ID32776 S	inus encoder perio	od		
	• ID32960 Ir	nput motor encoder	gear		
	• ID32961 C	output motor encod	er gear		

#### 1448 ID113 > ID34153

<ul> <li>"ID113 Maximul base.</li> </ul>	m Speed" is higher than '	"ID34153 Maximum	Speed Motor" which	ch was written into th	e encoder data
Device	2,	10		Zi.	2,
Description	2	2	2	Δ.	
Class	10.7	NO.X	100	10%	
Drive Behaviour	Tage,	A STATE OF THE PARTY OF THE PAR	Nage.	Tales.	
Device Behaviour	System run-up aborted	0/	110	10	1101
Additional Error Inform	nation (AMK Service)	),	10,0	1000	1900
72/1	74,	74,	-	74/	72/
Error Removal	Recheck parameters:  • ID113 Maximur  • ID34153 Maxim	m speed num speed motor	180	10 j	1,

## 1451 Configuration temperature sensor

Device	KW/KW	/D				
Description	- 9		9	9	9	
Class	The		"The	The	"The	
Drive Behaviour	18 Co		W.	ACC.	N. C.	
Device Behaviour	System r	un-up abor	ted	200	- 3/1/2	100
Additional Error Infor	mation (AN	IK Service)			770	300
741	Info 1	0	The configured sens	or in ID34166 is	not valid	724
		1	User defined charcte	ristic is not plau	sible	
Error Removal	• II	D34203 Vol D34204 Vol	s: nperature sensor motor tage at 25 degree tage at 75 degree tage at 125 degree	iousphob	(Pallonalyka di	, jbalto

## 1454 'Error initialisation angle observer'

<ul> <li>Error initialisat</li> </ul>	ion angle obs	server				
Device	KW-R06 iDT5 iX/i3X	, dipalite	C _{ling} ,	Posticilists.	(dhalitafnab)	, dballor
Description	iC The obser	ver for senso	rless detection of th	ne rotor position co	uld not be initialised	- 12 12 14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Class	Error			<u> </u>		
Drive Behaviour	9		- g	9	- g	
Device Behaviour	System ru	n-up aborted	7/10	"Afro	. The	
Additional Error Infor	mation (AM	( Service)	Vic.	"Ollio	- Ollie	
, digital	Info1	1 2	ID34233 = 0 and ID34045 = 0. ID3	ID34164 = 0 4046 = 0 and ID34	167 = 0	1920
Error Removal	• ID: • ID: • ID:		ance path Q' nal resistance' nal Inductance'	altornatyka a	Wh. Milling the by	mm, altou



#### 4.6 No. 1536 ... 1559 Serial EEPROM

#### 1537 System diagnostics

SEEP error in the second	ne inverter				
• See "ID32773 S	Service bits", SBM withdra	wal			
Device	201	19	201	25/2	
Description	1000	x0 ⁽¹⁾	,of	x011	
Class	7030	7020	70g2	10 ² 0	2
Drive Behaviour	410	(9)			1/4
Device Behaviour	System run-up aborted	77,		N _a ,	7/1/4
Additional Error Inform	mation (AMK Service)				
20	(3)	Inadmissible SEEP of	rder		9
Error Removal	ight.	The same	29/20	"The	

#### 1538 System diagnostics

\/	, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
Taskmaster- / t	taskslave combination is ina	dmissible	an e	$I_{I_{I_{I_{I_{I_{I_{I_{I_{I_{I_{I_{I_{I$	The state of
Device	4	4	4.		4.
Description	8	9	9	8	
Class	16.4	Ma.	16.	No.	
Drive Behaviour	May ,	May,	The same of the sa	The state of the s	
Device Behaviour	System run-up aborted	"Ji'o.	7/10.	"Iţo.	
Additional Error Infor	rmation (AMK Service)	20,	'9 ₀ ,	'9 ₀ ,	
	th, The	Error in AWMON rea	ading SEEP	12,	The state of
Error Removal	171	7	10		20

#### 1539 SEEP 1st checksum

Device	7030					
Description	71/0		71/0		77/2	, all
Class			t _{ta}	27,44	272	21/4
Drive Behaviour						
Device Behaviour	System	run-up aboi	ted	S)	28	28
Additional Error Inform	nation (AN	//K Service	1 29	,	76	"Ale
.000	-01/10	,	Inadmissib	le SEEP order	.(	100
Error Removal	123 July 1	•	Nagar.	Cal _{le}	Kan.	
Device	KE		- 41:0),	"4':O,	"4 _{1'O'}	al;
Description		-	les,	12,00	20,	1/4,
Class						
Drive Behaviour		28	.0	(5)	~S,	25,
Device Behaviour	System	run-up aboi	ted		24.	Side.
Additional Error Inform	nation (AN	//K Service	) , , , , , , , ,	, ₀ /10	×(	3500
Carlo.	Info1	0	Error check	sum SEEP, cell 0 - 37	Pag.	
Error Removal	10	L	77,00	7/0),	77,00,	2,5

#### 1540 SEEP 2nd checksum

Checksum of the	e SEEP ran	ge 2 is not co	orrect	92	190	790
Device		224	244		The state of the s	The same of the sa
Description						-
Class	9		9	6		9
Drive Behaviour	Thou		160.	"Tho."	3	To.,
Device Behaviour	System ru	ın-up aborted	J.Co.	Mar.	My.	
Additional Error Inform	nation (AM	K Service)	Ģ	ALITE CONTRACTOR	alite	allie
(1)		190	Inadmissible SEE	EP order	(9)	190
Error Removal		"Telan.	The state of the s		ala.	"Na.
Device			37			3
Description	9		9	9		9
Class	The		The	"The		1,0
Drive Behaviour	Co.	,	ACCO.	ACO.	717,0	, (C)
Device Behaviour	System ru	ın-up aborted	d	~91JE	- 1315C	Sallie .
Additional Error Inform	nation (AM	K Service)	.3	97	7800	7/07
" In In	Info1	1554	Error checksum S	SEEP, cell 39 - 49	THE.	The.
		2	Error checksum S	SEEP, cell 64 - 78		
9	9	3	Error checksum S	SEEP, cell 79 - 93		9
The .	Tho.,	4	Error checksum S	SEEP, cell 94 - 108	3	Fo.,
(\$),	Car.	5	Error checksum S	SEEP, cell 109 - 12	3	,
Error Removal		27,	Ď.	310	NIG.	NICO.

#### 1541 Commanded AW missing

The command	ed inverter module is	not present			
Device	18.5	7.65	18.5	7.0	<i>S</i> .
Description	29,	277	29,0	197	.5
Class	Ó	x01.	200	201	70,
Drive Behaviour	2	10 ²⁰	70/20	702	7020
Device Behaviour	System run-up abo	orted	7/1/0	71/0	24/0
Additional Error Infor	mation (AMK Servic	e)	17/4	Va.	27
Error Removal	2	28	28	0	8,

	(10)	(4)		(1)	(1)
Device	744,	77/2		Ma	The same of the sa
Description				4	4
Class	9	8	6		9
Drive Behaviour	743.,	743.,	Mrs.		15°,
Device Behaviour	System run-up aborted	Car,	Car,	A. O.	ď,
Additional Error Infor	mation (AMK Service)		7,0,	2760.	27/0.
92	(90,	SEEP driver error		190	(90)
Error Removal	272	ale.		alga.	My.



<ul><li>The manufactur</li></ul>	er information was not v	written correctly in th	ne SEEP	300	
Device		24,	The state of the s	220	The state of the s
Description					
Class	9,	6		6	9
Drive Behaviour	"Arg."	"The.	3	P.	The.
Device Behaviour	System run-up aborte	d (CO)	- Car		50,
Additional Error Inform	nation (AMK Service)	all to	allie.	NIG.	
OS .	300	. 35°	. GD	. 80	. (3
Error Removal		120	14/40	Thu.	alu.

#### 1544 ID32953 no adjustment permissible

<ul> <li>If "ID32953 End</li> </ul>	coder type" ≠ A type	encoder no encode	er basic adjustment is p	permissible	10%
Device	1000	1010	101	101	
Description	700	NO.	70,50	702	2
Class	4	" this	14/10	" My Sales	1/12
Drive Behaviour		2/4	20,	M.	274
Device Behaviour	System run-up a	borted			
Additional Error Inform	mation (AMK Servi	ice)	, ² , ²	3.2	
27/10	ill.	27	35		de
Error Removal	xoll.	,0/	×0/1°	70%	-

# 1545 System diagnostics

Device	d when writing the current e		1.0 0		.,
Description	. T	- W	A	167	1
Class	The state of the s				
Drive Behaviour	NIN.	allie.	ALIE CONTRACTOR	NIC	
Device Behaviour	System run-up aborted	90	. (6)	(0)	
Additional Error Info	rmation (AMK Service)		They.	74/4.	7774
4.	4.		4-	4.	4-
Error Removal	2	À	2		À

<ul> <li>Fault counter is</li> </ul>	missing	700	3	702		70 ²	λ.
Device	AZ	14/100		14/100		45	" Cay i.
<ul> <li>Possibly AW is</li> </ul>	not present,	The state of the s		474	27,00		170
Description							
Class	2.2	'S.	795		795	7.85	
Drive Behaviour	-277		200		201	3/4	
Device Behaviour	System run-	-up aborted	301	10%	//	701	
Additional Error Inform	mation (AMK	Service)	-	70,90		7020	
io.	24.50	SE	EP fault counte	er missing	2	41,00	This is
Error Removal		200		44.	The state		200

. (15)"	(1)		25,,	(Q)"	190
Device	777	71/1/2		71/1,	THA.
Description					
Class	9	8	9	9	
Drive Behaviour	743.	743.	The same	"The	
Device Behaviour	System run-up aborted	Carlo.	Way.	Car.	e e
Additional Error Info	rmation (AMK Service)	-	"ILO.	7/10	176
92,	190	AWMON timeout	/ AZSEEP driver	92,	190
Error Removal	The state of the s	"Hu.		71/20	The state of the s

#### 1548 System diagnostics

² 13 ₁ .	201	201	201	19	
Device	S. C.	, dr.	,o ^C	70,	70%
Description	7	.2077	.1082	300	3050
Class	142	9	77.00	"4' ₁₀	71/0
Drive Behaviour	777		Thu.	202	No.
Device Behaviour	System run-up at	oorted			
Additional Error Infor	mation (AMK Servi	ce)		, <u>?</u>	20
S. C. L. C.	19/10	Default in S	SEEP, after ½h fo	r not initialized SEEP	
Error Removal	3	-01C	-0/10	- office	

# 1549 System diagnostics

Clock master / c	lock slave combin	nation not permissible	9	4.	4.
Device	9	9	9	3	<u> </u>
Description	Mo.,	W.	76°,	The.	
Class	Car.	Na.	Kar.	The same	
Drive Behaviour		776.	776	27/20.	27/0
Device Behaviour	System run-up	aborted	92	120,	190
Additional Error Inform	nation (AMK Serv	vice)	Thu.	My.	My.
120	20	SEEP Alloc	/ Dealloc timeout	1,0	4.
Error Removal	2	2	<u> </u>	2	_

<ul> <li>Clock master /</li> </ul>	clock slave combination no	ot permissible		300	70%
Device	" In the second	410	"A'I'S		" Nico
Description	No.	112.	$\eta_{t_0}$		Ma.
Class					
Drive Behaviour		28	25,	20,	
Device Behaviour	System run-up aborted	12/1 ¹²	THE STATE OF THE S	API,	,
Additional Error Infor	mation (AMK Service)	(C)	100	*OLL	75.
200	2000	SEEP Alloc / Dealloc en	ror	Salar.	10/1/2
Error Removal	77,50	'4' _{CO.}	⁷⁴ / _O		² H, CO.



#### 1551 Encoder track failed

- Encoders actual position value determined internally from inputs G1N/G1I or G2N/G2I does not change over time
- Occurs during encoder basic adjustment, failure of an encoder track
- Signals not present at G1N, G1I, G2N or G2I

Signals not pre	esent at GTN, GTI, GZN OI	G21			
Device	9	9	9	à	<i></i>
Description	7K2.,	"The."	The state of the s	"Tho.	
Class	Warning	The state of the s	"Kigh"	-Cari	
Drive Behaviour	2/10	270	270	NIG.	
Device Behaviour	. Or	(B)	. 80	. 00	
Additional Error Infor	mation (AMK Service)	2.	Mu.	n.	"They
4.	4,		4.	1.	4.
Error Removal	À	<i>A</i>	À	Α.	

#### 1552 Encoder adjustment abort

Device	KU-R03( KW-R03(	P) 4					
	KW-R04				<u>'5,                                    </u>	202	
Description	- 50	7	201	- ZH		The same	
Class	Error		.010	-0ff'		ile.	
Drive Behaviour	Drive run	s down	7437.	7.97r	797		
Device Behaviour	Controlle	r enabled (F	RF) is withdrawn interna	ally	770		
Additional Error Infor	mation (AM	K Service)	la .	77,7	-11/2		-17/1
9	Info 1	Info 1 1 Faulty encoder type (during changing encoder position)					
		2	Faulty encoder type (during encoder adjustment)				
		3	RF is set or withdrawn too early (alignment)				
	-Clar	4	RF is withdrawn (during encoder setting)				
	alito.	5	RF is set or withdrawn too early (during encoder setting)				
	900	6	Time out 29 s is ex	ceeded with SWI	( (0)	-	
Error Removal	• R	eset RF not	fore the function <i>encod</i> before the function <i>enc</i>				444
	• R		53 'Encoder type'				
	-Clar		94 'Rise time SWC'				
	"Jio,	<ul> <li>ID340</li> </ul>	99 'Delay time SWC'				

Device	Controlle KW-R06	r cards				
Description	Encoder	adjustment fo	r setting of com	mutation was aborte	d 👌	9
Class	Error	Fo.	"The		140.	Thomas
Drive Behaviour	Drive runs	s down	-K.	_<	-d	Sp.
Device Behaviour	Controlle	r enabled (RI	=) is withdrawn	internally	770	
Additional Error Inform	nation (AMI	K Service)	9,	92	190	
71,	Info 1	0	_	The state of the s	7120	- Tr
47		1	RF was set b	efore the command	encoder adjustment w	as set.
À		2	ID32953 'En	coder type': Encoder	type or motor model n	ot correct
12.		3	RF was set t	o zero before the fun	ction encoder adjustme	ent was finished.
Error Removal	• Do	o not reset RI echeck parar	= before the fun	on <i>encoder adjustm</i> ction <i>encoder adjust</i>		'4,

#### 1553 Encoder adjustment timeout

<ul> <li>Timeout encod</li> </ul>	der adjustm	ent 🚫		100		700	197
Device	Controll KU-R03 KW-R03 KW-R04	B(P)	40.Q	May.	160 j	<i>1</i> 0	ğ)
Description	After cor	nmand encod	der adjustment	was started F	RF was not set v	vithin the timed	out time
Class	Error		¿o,	140.		"Igo,	, J.
Drive Behaviour	Drive ke	eps standstill		1900		1900	190
Device Behaviour	RF = 0 is	s kept		The same	24.	27.	TIN.
Additional Error Infor	rmation (AN	MK Service)		20	13		10,
	Info1	1	time out ex	ceeded durin	g encoder adju	stment	
	12.5	2	time out ex	ceeded durin	g rotor alignme	nt 🕠	8.
Error Removal	€ F	After the comr	nand <i>encoder</i>	adjustment R	F must be set w	ithin 60 second	ds.
Timeout while	encoder ad	justment	20,	170		Tho.	
Device	Controll KW-R06	er cards		"HIGH	ar and a	M. C.	"MATCH
Description	A timeou	ıt occurred dı	ıring encoder a	adjustment	4-		2.
Class	Error		A		À		À
Drive Behaviour	Drive ke	eps standstill	163.4		153.4	160	X
Device Behaviour	RF = 0 is	s kept	N. S.	A	(g)	A. S.	
Additional Error Infor	rmation (AN	/IK Service)	£0,	7/10,		120	3
.700	Info1	0 %		1900		1900	1900

RF was not set within 10 s

After the command *encoder adjustment*, RF must be set quickly For safety RF will be withdrawn after 2 minutes if rotor is only adjusted

Configure a binary input as source for RF and chose it

RF was not withdrawn within 2 min

RF was not withdrawn automatically within 10 s

# 1554 ID32776 Sinus Encoder Period is faulty

Recheck parameter:

• ID32796 'Source RF'

**Error Removal** 

1/2.,	Aro.	Mr.,	Mo.,	Mrs.	
Device	3/201	M.	K.	K.	×5
Description	to reference		nted over one revolution ith parameter "ID32776		
Class	Warning	1-	11,	11,	20
Drive Behaviour					
Device Behaviour	795	J4:2	795	J&S	,
Additional Error Inform	mation (AMK S	ervice)	Pale	J. P.	
7.	3	10	202	×2/1	101
Error Removal	Occur	s during the basic enco	oder adjustment	7000	702
	Rech	eck parameter:			
	•	ID32776 Sinus encod	der period		



## 1555 Reference pulse

	77.		4/2		
Device	The state of the s				
Description	The reference pulse could r	not be detected	during a determined pe	riod	
Class	Warning	9	9	9	
Drive Behaviour	Tho.	"Than	Mo.	Mr.	
Device Behaviour	System run-up aborted	-C. (2)	"Kgr,	Co.,	
Additional Error Inform	nation (AMK Service)	20.	776	770	
90,	90,		800	Sp.	
Error Removal	Occurs during the bar	asic encoder a	djustment	72,	-62,

#### 1556 Reference Pulse - Encoder Input

Device	100	10/2	100	10/
Description	is determined in		the digital pulse D0 from the nimum or maximum value	encoder signal S0,
Class	Warning			
Drive Behaviour	9	9	8	9
Device Behaviour	160.	No.	The second	"Ho.,
Additional Error Infor	mation (AMK Serv	vice)	Clar,	Mar.
200	200	77.0	270	770.
Error Removal	. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ne G0N / G0I signals (reference) during the basic encoder ac	ence pulse track) is not pres djustment	ent

#### 1557 Turn axis

19/2	201		40/2		101	201	
Device	xol()		, of 1	xd	E. C.	xo ^{CC}	
Description	No change of period	the inverter	s internal enco	der signal cou	nter was determ	nined during a defin	ed time
Class	Warning	11/10		444	. L.	Ha.	-77/2
Drive Behaviour							
Device Behaviour	9		9		9	9	
Additional Error Inform	mation (AMK Se	rvice)	Mar		Thomas	Thomas	
-C. D.	-Con.		T. Carrier	_	C. C.	-C. S.	
Error Removal	Occurs	during the	basic encoder a	adjustment	7	Willia.	

Device	10.7				
Description	V9.C.)	Vylo),	VII.	, ć	Sq.
Class	Warning	10	10	10	
Drive Behaviour	70.0	1000	. No.	700	
Device Behaviour	4	This.	74/2	" Ly'	741;
Additional Error Infor	mation (AMK Service	e)	27,	21,2	27
		Online adjustr	nent		
Error Removal	25	200		· 9.5,	2.5

## 4.7 No. 1792 ... 1849 Drive Commanding

## 1794 System diagnostics

<ul> <li>Interpolator</li> </ul>					
Device	38,5		19.5	7.8%	
Description	"CAL	757	27/4	2/1/4	
Class	Warning	xoll.	XOT TO SERVICE	, of C	lo _x
Drive Behaviour		600	70 ₂₀	2000	7032
Device Behaviour	1/2	)	71/0	7/0	71/0
Additional Error Infor	mation (AMK Service	e)	A	212,	2720
		IPO, end posit	ion not reached		
Error Removal	<ul><li>ID137 Neg</li><li>ID222 Spin</li></ul>		n value	www.ithaltomatyka.ch	unnidalita

#### 1795 System diagnostics

Interpolator	No.	Vaga.	S. Carlotte and C. Carlotte an	(gr)
Device		710.		Nic.
Description	'920	, Jo.,	190,	'920
Class	Warning	The state of the s	71/4	The same of the sa
Drive Behaviour	10	14,	10	20
Device Behaviour				2
Additional Error Inform	nation (AMK Service)	70'S	70%	12 × 2
Vales.	190	IPO, dxidiv factor	Sec.	Sec. 1
Error Removal		velocity re acceleration ve acceleration e position speed	Muhulidga Ito.	White High Street
	<ul> <li>ID32956 Add</li> </ul>	itional acceleration value		

<ul> <li>Interpolator</li> </ul>	7/0),	7'0"		⁷ ;Q,	710
Device	The state of the s	2/2/2	M		Ny.
Description					
Class	Warning	S)	9	9	
Drive Behaviour	The	The same	The same	"This	
Device Behaviour	1 CO	W.	The state of the s	717.0	<u>~</u>
Additional Error Info	rmation (AMK Service)	200	N. C.	- Alle	- 47/2
(0)	(0)	IPO, mkipstart		(0)	(40)
Error Removal		velocity e acceleration	elolughka di	, itomayka di	11 ¹¹ 11



Interpolator	S. S.	8	350	(d)"
Device	224	224	220	TH4.
Description				
Class	Warning	9	6	9,
Drive Behaviour	The same	"The."	The.	"Thomas
Device Behaviour	"Claric	Co.	Type,	T. S.
Additional Error Inform	nation (AMK Service)	170	7760	No.
300	D	IPO, mkipstart = 8 in lpst	teuer	(0)
Error Removal	Recheck parameters:  ID41 Homing vel  ID136 Positive ac  ID137 Negative a  ID222 Spindle po  ID32956 Addition	cceleration acceleration	HOLIGIAN D	"Itolugisko si

#### 1798 System diagnostics

<ul> <li>Interpolator</li> </ul>					
Device			<i>S</i> ,	⁹ 0,	
Description	197	27/2	Pig	ă	3
Class	Warning	.01	,0[1	x0[[]	
Drive Behaviour	2000	2080	70/20		
Device Behaviour		77/0			11/12
Additional Error Info	rmation (AMK Servi	ice)	172	7/4	2720
		IPO, mkipsta	art = 1 or 2 in Ipsteuer		
Error Removal	<ul><li>ID136 Po</li><li>ID137 Ne</li><li>ID222 Sp</li></ul>	eters:  ning velocity sitive acceleration egative acceleration indle position speed Additional accelerati		2.D	May by

<ul> <li>Interpolator</li> </ul>	190	All the	No.	, di	ig)
Device	120,	"Zf ₀ "	- 13to.	, J ₁₀ ,	
Description	900	.900	1900	, db.	2
Class	Warning	The same of the sa	Thy.	Maj.	Tay.
Drive Behaviour		200	40	11,	1/2
Device Behaviour			\	_	
Additional Error Info	rmation (AMK Se	rvice)	.9	0.S	13.S
7920	190	IPO, mkipsta	art = 4 in Ipsteuer	, i	Ed.
Error Removal	<ul><li>ID136 I</li><li>ID137 I</li><li>ID222 S</li></ul>	meters: oming velocity Positive acceleration Negative acceleration Spindle position speed		ol while ideality.	nun'i

Device						
Description	6		9,	6	9	
Class	Warning		. J.C	"Ma.,	"The."	
Drive Behaviour	- Car.		Mar.	-Co.	-Clar.	3
Device Behaviour	300	2/10	7	N. C.	NIG.	2/10
Additional Error Info	rmation (AMK	Service)	. (	900	.00	. 60
774.		The same	IPO standardisat	ion avzgmax too larg	је	The same
Error Removal	<ul><li>ID4</li><li>ID1</li><li>ID1</li><li>ID2</li></ul>	37 Negative 222 Spindle _l	elocity acceleration acceleration position speed onal acceleration v	alue	.toastomatyka.til	")0g/IQ

# 1801 System diagnostics

<ul> <li>Interpolator</li> </ul>			3.S	*'S,
<ul> <li>Increase ID136,</li> </ul>	, ID137			
Device	XOLU XOLU	200	70%	70%
Description	7020	.1070	.1687	.1080
Class	Warning	⁽²⁾ / _M	, _M , ⁽⁰⁾	77/2
Drive Behaviour	N. C.	No.	N.	2/2,
Device Behaviour				
Additional Error Inform	nation (AMK Service)	20	, (j)	, ()
and the	LE LE	O standardisation avzgma	x too small	-
Error Removal	Recheck parameters:  • ID41 Homing veloci  • ID136 Positive acce	eleration	,Hidpaltom.	Hdbailoff
na,	<ul><li>ID137 Negative acc</li><li>ID222 Spindle posit</li><li>ID32956 Additional</li></ul>	tion speed		

<ul> <li>Interpolator</li> </ul>		'9b, ₀				
<ul> <li>Increase ID136</li> </ul>	ô, ID137					
Device		14	1,		14	14
Description	2			2	2	
Class	Warning		10.8	12.7	10.8	
Drive Behaviour	City.		Night.	Vigo.	Sign.	
Device Behaviour	0	3	0,	10,	70,	1101
Additional Error Infor	mation (AMK	Service)		'Spor	'92 ₀	190
741,		247	IPO standardisa	ation amax too smal	1 "4 _{1.}	" Ly'.
Error Removal	• ID1: • ID1: • ID2:	1 Homing v 36 Positive 37 Negative 22 Spindle	acceleration e acceleration position speed	walue		
100 m	• ID3	2956 Addit	ional acceleration v	value		



<ul> <li>Interpolator</li> </ul>	792	700,	790.		35
<ul> <li>Check control s</li> </ul>	speed				
Device		- 1	- 1	-1-	
Description	è	9	>	9	9
Class	Warning	The.	T,		Ka.
Drive Behaviour	-430	- C.	The state of the s	_K_\$	
Device Behaviour	2/2/0	7/10	2760	770	
Additional Error Inform	mation (AMK S	ervice)	. 8	. 80	. 3
in the second	2.	IPO standard	lisation vmaxein or voe	in too large	The state of
Error Removal	<ul><li>ID136</li><li>ID137</li><li>ID222</li></ul>	ameters: Homing velocity Positive acceleration Negative acceleration Spindle position speed Spindle ditional acceleration	on value	, dipartor de	red to

# 1804 System diagnostics

Check final value	ue (target value)	200	3	78,	25
<ul> <li>Operator transn</li> </ul>	nit inadmissible o	data			
Device	*OLL	,0/5	x of The	2010	
Description	2000	2082	72/2	2000	2
Class	Warning				.4/
Drive Behaviour		21/10	112	77,11	717
Device Behaviour					
Additional Error Inform	nation (AMK Se	rvice)	2	3	, g)
29 P.	3	IPO standard	lisation xieneinneu-xie	ndein alt too large	:JE
Error Removal	The same	- Alle	- Co	E.	D-

Device	A				
Description	No.		Max.	Max.	160.
Class	Warning	, d	200	Carlo	Nage,
Drive Behaviour	170	"710,	770		200
Device Behaviour	900	.00	,300	(9)	7
Additional Error Info	rmation (AMK Sei	rvice)	"Hy.	"TIN,	- La
10		IPO sta	ndardisation dxifaktor re	emainder	10
Error Removal	• ID136 I	meters: Resolution motor e Positive accelerati Negative accelera	on	rall March	10 mild ko ti

Device		T.A.	74		1/4	7/4
Device		The same	The state of the s		400	-02,
Description						
Class	Warning					
Drive Behaviour	"Theory		"Tho.,	"The	.3	fo.,
Device Behaviour	-(Cg.,		-(C)	-Car.	-U.S.	
Additional Error Info	mation (AMK	Service)	9	"Ilio	NIG.	,Š
. 300		. 30	IPO standardisati	on dxifaktor	.85	. 350
Error Removal	Recheck pa	rameters:	TIL.		774,	The same
	• ID11	6 Resoluti	on motor encoder			
	• ID13	6 Positive	acceleration			
	ID13	7 Negative	e acceleration			

#### 1807 System diagnostics

<ul> <li>Permissible tim</li> </ul>	e between K	MD comma	anding and BAV	operation mode ma	nagement was e	xceeded
Device		274	4	124	27,	21,
Description						
Class	Warning		38			
Drive Behaviour	J. C.		27/2	27/2		THE STATE OF THE S
Device Behaviour	3		, of C	2017	70%	70%
Additional Error Inform	nation (AMK	Service)	3.	.10 ⁷⁰	.1000	.1080
141,50		7410	Timeout KM	D -> BAV	77/20	
Error Removal		774	4	t _{tt} ,	1/4,	N.

## 1808 System diagnostics

<ul> <li>Operation mod</li> </ul>	le management ackn	owledges error after comn	nanding	Mar.	26
Device	9		allic .	NIG.	allio.
Description	35	70,	0	(9)	. (5)
Class	Warning	"Iller.		The state of the s	Then,
Drive Behaviour	7	4.		4.	4.
Device Behaviour	<i>A</i>	9		8	
Additional Error Infor	mation (AMK Servic	e) (2)	Max.	M.	
(g),	Ser.	Error KMD -> BAV	Mar.	The same of the sa	Zi.
Error Removal	Ç.	170.	"Ito,	"Tio,	"Ago,

•	Inadmissible	e commanding	code in	KMD-SS,	check inter	face
---	--------------	--------------	---------	---------	-------------	------

- STOP order if IPO not active
- FURTHER order, if IPO not stopped
- Undefined order Order does not correspond to START, ABORT, STOP, FURTHER, VALUE NEW

Device		7000	. Color	20	300	70%
Description		7/0	74/10	. 1 ¹ / ₂		410
Class	Warning	No.	No.	N.		200
Drive Behaviour						
Device Behaviour	23		2	28	20	
Additional Error Infor	mation (AMK S	Service)		20/2	20/62	
	300	.5	, d	N. C.	.dC	
Error Removal		~3/2	7872		972	7972



Inadmissible co	mmanding function	on in KMD-SS, che	ck interface	(0)	
Device			284	1979	(APA)
Description		- 29	-20	-29	-29
Class	Warning		8	8	9
Drive Behaviour	"They		10°.	The same	M3.
Device Behaviour	C.S.	- C.	7	K.B.	Clar.
Additional Error Inform	mation (AMK Ser	vice)	, Jr.		1710
800	900	120	900	Š	3
Error Removal		"III"	No.	21/4	"Hyp.

#### 1811 System diagnostics

Device	40°C	10	10	10/	
Description	7000	700	70,00	70/20	
Class	Warning	14/10	14/10	"Williams	147
Drive Behaviour		My.	20,	Ma,	27,0
Device Behaviour					
Additional Error Inform	nation (AMK Se	ervice)	3.0	20,	- 2.2°
27/2	201	Timeout Kl	MD -> AWMON		al a
Error Removal	-017		.00	-0(L)	

## 1812 System diagnostics

Inverter can no	o longer be addressed		47	- 12	19
Device	9	9	6		9
Description	Tho.	The.	"The.	.31	100
Class	Warning	The state of the s	"Us.	The state of the s	
Drive Behaviour	2/2/0	726	Nigo.	Jig.	
Device Behaviour	, 60°	(9)	. 45	. (6)	
Additional Error Info	rmation (AMK Service)	La.	12/2	21/4	My.
4.	4	Error KMD -> AWN	10N	4	4
Error Removal		à	Δ.		à

## 1813 KMD user error

<ul> <li>Inadmissible or</li> </ul>	der in KMD-SS	YOU'S	702	N ₂	,
Device	450	"apply	74/2	74/2	'C1/2,
Description	7	100	11,	7/4	20,
Class	Warning				
Drive Behaviour		. a.S.		79°S,	
Device Behaviour	"I'd	27/1		THE STATE OF THE S	Sight.
Additional Error Inform	mation (AMK Service)	2017	70,		x0[1]
2082	70.90	70 ₂₀	1080	30%	
Error Removal	Check interface	71/0	7/1/0		21/

<ul> <li>Inadmissible co 32809</li> </ul>	ommanding o	peration mod	le selected, BA m	ay be assigned co	ode 09 according to I	D32800
Device		20	1/4		12,	14
Description	2		2	2	2	
Class	Warning		12° X	123	12.7	
Drive Behaviour	Carlo.	,	Carley .	Nage.	Cape.	2
Device Behaviour	O.	10		10	70	1101
Additional Error Infor	mation (AMK	Service)		900	1900	1900
"Ay,		747	12/		74,	Ty.
Error Removal	• Che	eck interface	2,		24.	27,
47/42 Q	• Red		AMK main opera	tion mode secondary operat	ion mode 1 9	

# 1815 Controller enable missing

Commanding without	RF, QRF not p	ossible, con	trol interrupted.	7-0-	The state of the s	M
Device						
Description	9		6	0	ò	\
Class	Warning		The	Tho	The	
Drive Behaviour	200		U.S.	W.	W.	
Device Behaviour	100	2/10	,	2/10	2/10	- Alle
Additional Error Infor	mation (AMK	Service)		(0)	(4)	(9)
11/2		Mar	.14	The same of the sa	7774	780
Error Removal			d after RF activat function code)	ion or starting condit	ions must be restored	t

#### 1816 Not homed

<ul> <li>Inverter is not h</li> </ul>	nomed, function requires	a homed system	7020	7020	70 ₉₇₇ .
Device	41,0	2	4.0	41.0	41.0
Description	2720	212		Tr.	Na.
Class	Warning				
Drive Behaviour		28	23,		~5)
Device Behaviour	N. S.	Sept.	20/2	10%	7
Additional Error Infor	mation (AMK Service)	OLL STORY	"Offic	, offic	, of C
Kan Kan		5	Wally.	Kalifu .	Wall.
Error Removal	"170"		7. O.	"1;0,	410

Device	Car,				
Description		2310.	270.	Willo.	11/0
Class	Warning	1900	90,	190,	1900
Drive Behaviour		The state of the s	"My.	2124.	The state of the s
Device Behaviour	3	La.	14	1,	2,
Additional Error Inform	nation (AMK S	ervice)	2	2	
70×	10.7	NO.Y	10 X	10%	
Error Removal		800 AMK main opera	tion mode secondary operation m	ode 1 5	io ^{nit} o ^r



90,	Sp.	120,00	90,	1200	
Device	140	The state of the s	The same	Ala.	"Tight,
Description		4,	4,	4,	4,
Class	Warning	À		À	À
Drive Behaviour	150.7	160.4	. X-	9×	150.
Device Behaviour	N. S.	- Carlo	V. S.		Val.
Additional Error Info	rmation (AMK Service	a) <u>Jo</u>	180	.31	2,
900	900	Inadmissible s	tate in KMD	190	2
Error Removal	747	Tay.	Thy.	74,	TH,

## 1819 System diagnostics

<ul> <li>Inverter addres</li> </ul>	s calculation i	mpossible, op	eration mode i	ncomplete	"ICAL	ă	F
Device	XOTT.		xoff	, c	96	, of 10	
Description	72,2	3	035	:082		1080	
Class	Warning	.41.6	)	71/0			24.5
Drive Behaviour		20,00		27/2,		T _L	No.
Device Behaviour							
Additional Error Inform	mation (AMK	Service)	20		28		20
The same	19 m		20/2		20/20	×	The same
Error Removal	700	//K main opera		eration mode	1 6	"I'dpantous	

#### 1820 System diagnostics

Device	NACO.	VII.	190		)
Description	70	10	10	70	
Class	92,0	900	1900	1900	
Drive Behaviour	Controlled braking	15.	24.	24,	This
Device Behaviour	14,		2,	2,	24
Additional Error Infor	mation (AMK Service)				
70.5	738.	73.5.	V	\$.S.	19:S.
Error Removal	Recheck parameter:  • ID32954 Time ra	amp down monito	or softeig	*OUGHA	),

<ul> <li>IPO cannot pe</li> </ul>	rform direction change				
Device	20/	g)		Q.	- Ø
Description	Me	The	"Are	,	"The
Class	Warning	- Oldio			10
Drive Behaviour	~alle	~3 <u>11</u> 0	~dille	~ Sulle	
Device Behaviour	7/0,	77.60%	77(0),	77,01,	2.50
Additional Error Info	rmation (AMK Service)	4.	727	Tag.	" Tala
Error Removal	9	6		9	9,

<ul> <li>IPO cannot be</li> </ul>	activated	190			792	700
Device		Thu.	2.	274	720	Teles.
Description						
Class	Warning		6	6		9
Drive Behaviour	Thomas		"They	Mo.		-743.
Device Behaviour	1000		Contract of the Contract of th	-C.20.	-26	26.
Additional Error Infor	mation (AMK	Service)	)	2/10	27/20	7/10
. Th.,		190	IPO timeout	S. S.	. 85	. 3
Error Removal		The same		In.	Na.	No.

#### 1823 System diagnostics

Device	, O	ж.	2//	χÓ		, o'	10x
Description		7000		1000		7022	
Class	Warning	410		.44,100		"Williams	'A1.
Drive Behaviour		274.		274		21/4	20,
Device Behaviour							
Additional Error Info	rmation (AMK	Service)					·4.0)
19/m	ide		IPO error		TO SECTION SEC	20	
Error Removal	S. C.		400		4	200	.60

# 1824 System diagnostics

Device	9				
Description	"Tho.	The.	Tho.	"Tho.	
Class	Warning	Migr	This.	The same	25
Drive Behaviour	100	NIG.	Wille.	NIG.	all lo
Device Behaviour		100	.60	190	.00
Additional Error Info	mation (AMK Serv	rice)	20	ala.	Ma
4,	4	RESERVE		4.	4.
Error Removal	2	2	2		

<ul> <li>SINCOS enco</li> </ul>	der, encoder does not report with	nin 2 sec. through RS48	5-SS	70,50
Device	'ch'.	Miss	12/1/20	Miss
Description	M.	Ha.	2/4	274
Class	Warning			
Drive Behaviour		,,? ¹	,S	5,
Device Behaviour	SBM withdrawal	Page	THE STATE OF THE S	
Additional Error Info	rmation (AMK Service)	,OC	*O[L]	201
1601	2023	.1087	7092	7080
Error Removal	Check encoder or cable	77/20		77/20



SINCOS enco	der, checksum of the e	ncoder acknowledgei	ment does not agree (XC	OR)	124
Device	120	The state of the s	The state of the s	"May	420
Description					-
Class	Warning	9	9	9	
Drive Behaviour	The.	. Ho.	The same	The	
Device Behaviour	SBM withdrawal	-Clark	-Ugr,	The state of the s	
Additional Error Info	rmation (AMK Service	) [[]		2/20	
B.	. Open	. 1800	. B	. Open	
Error Removal	Possible causes ar	e faults of the RS485	signal cables, or of the R	S485 input	dia.

#### 1827 System diagnostics

<ul> <li>Invalid encoder drive function</li> </ul>	type, the SINCOS e	encoder type is not pe	ermitted in the spin	dle positioning and synchr	onous control
Device	10 gills	1000	Najor.	200	
Description	0.	77.02.	"7'CO.	77,0,	41,6
Class	Warning	Thu.	2127	27,	714
Drive Behaviour					
Device Behaviour	9	ŝ		, di	9
Additional Error Inforn	nation (AMK Service	e)		A. S.	No.
M.	OLC, O	W.C.C.	, de	UL.O.	
Error Removal	Recheck paramet	er: Encoder type	"iq _{burg}	"(q _b _{ang}	

#### 1828 System diagnostics

- This message can occur only in connection with an abort of drive functions (or RF withdrawal during an active drive function)
- The user has not set the synchronization bit "ub_basync" for external command value synchronization and has attempted an operation mode change (inadmissible!), error message and SBM withdrawal (inverter cannot be controlled, operation mode change in the operation mode change)

Device	2,	20.	77,20	Thu.	No.
Description	4.		1,	1/2	4
Class	Warning	2		<i>λ</i>	A
Drive Behaviour	160.4	K3.X	.Ko	×	FO.X
Device Behaviour	180	Nagara and American A	N. S.	- Car.	
Additional Error Inform	mation (AMK Service)	7/0	310	7/0	
1000	The same	.850	1900	, chi,	6,
Error Removal	27	27.	My.	774	Tay.

"ID55 Closed loop po drive function	larity" and "ID43 \	Velocity polarity" may	be only positive in spin	dle positioning or synchr	onous control
Device	- 41/20	- 11/10	-4/1/2	200	
Description	(0)	(40)	300	7400	30
Class	Warning	Ma	" Marie Land	Thu.	"The
Drive Behaviour				-	
Device Behaviour	3		9	9	9
Additional Error Info	rmation (AMK Se	rvice)	\$ ²	743.	143°
C. C.	Car,	Car.	L'a	.,	
Error Removal	1	ameters: /elocity polarity Closed loop polarity	, w. ldballe	, w.l.dballe	W.

Device						
Description			2	2	2	
Class	Warning		10.X	10.5	10.5	
Drive Behaviour	190	.2	20,	Value .	Nation of the same	
Device Behaviour	10	10		10	10	100
Additional Error Info	rmation (AMK	Service)	.80	0	. %;	1900
74,		24,	72/2		74,	74/
Error Removal	• ID1 • ID1 • ID2	03 Modulo valu 16 Resolution 17 Resolution 78 Synchronou	ue motor encoder external encoder us additional angle in operation mode	position		

## 1831 System diagnostics

SINCOS enco	der, encoder rep	orts error (error bit s	set)		9
Device	The	"The	"Aro.	E	
Description	A CO	Mic	ALCO.	C. C. C.	
Class	Warning		~gillo	~ dillo	-21/1°
Drive Behaviour		77(0),	7/0),	77/02	7700
Device Behaviour	SBM withdra	wal	The state of the s	720	724
Additional Error Infor	mation (AMK S	ervice)			
9	9	9	9		9
Error Removal	Defective en	coder or faulty syste	em West	.31	0.,

## 1832 System diagnostics

<ul> <li>"Absolute posit</li> </ul>	ioning" drive fu	unction		741,	74,		741,
<ul> <li>The preset pos</li> </ul>	ition is more th	an  31Bit  ren	noved fror	n the current position	n command val	ue (inadmissib	le!)
Device							
Description	73.5.		13.5	(a)	8,	79.5.	
Class	Warning	~	9 _{61,}	V9.04.		79.A.	
Drive Behaviour	o's .	101		100		101	100
Device Behaviour		7035		72/2	720	50	702
Additional Error Inform	mation (AMK	Service)		"His	14/10		"Ayjes
M.		120.		770.	274		No.
Error Removal							

<ul><li>"Lifting axis" dr</li></ul>	rive function,  n _{actual}   ≥  1.2 x n _{limit}		~ dille	~dille
Device	7,00	770),	77,00	7(0),
Description	Tay.	" Inla	72,	24,
Class		-	-	
Drive Behaviour	Controlled braking	9	9	9
Device Behaviour	.76°		Ko. "It	
Additional Error Infor	mation (AMK Service)	-40	, and the second	3.
్ట్రి	110	770	2/10	270
Error Removal	Check loading of the system in	connection with the	preset limits	.000



SINCOS encoders: The difference of the double sampling of the absolute value in the "Homing" drive function does not lie in the position window according to ID 57.  Device  Description  Class Warning  Drive Behaviour  Device Behaviour SBM withdrawal  Additional Error Information (AMK Service)				
Device	1,	14	14	20
Description	2	2	2	2
Class	Warning	10.7	10%	10/2
Drive Behaviour	Nage,	VIII.	Agin .	A STATE OF THE STA
Device Behaviour	SBM withdrawal	110	10	100
Additional Error Infor	mation (AMK Service)	No.	Sec.	.200
3	44	747		THI.
Error Removal	Axis in motion or	system disturbed	74	The state of the s
	Recheck parame     ID57 In p	eter: osition window		

## 1835 System diagnostics

<ul> <li>Special lift fun</li> </ul>	ction	30,	710,	7:00.	770
<ul> <li>Driver comma</li> </ul>	nding <-> database disturb	ed			
Device					
Description	. 3	ġ.		ĝ	o di
Class	-3/c	The same	.e.	2	: The
Drive Behaviour	Drive runs down	Mic	- Miles	, st	10
Device Behaviour	~915c	. Alle	- Sille	~9 ¹ 120	
Additional Error Info	rmation (AMK Service)	(0)	7/02	77,07	3.50
	74,		72/2	720	724
Error Removal	Internal interface	e assigned or para	ameterised EEPRC	M defective	

## 1836 System diagnostics

<ul> <li>Special Lift fun</li> </ul>	nction	760	70	
Check lift learn	ning travel error			
Device	4, 44,	Ny.	My.	My.
Description	22,	24,	20,	20
Class				
Drive Behaviour	Drive runs down	70'S.	70%	
Device Behaviour	74 _{C)} , 75 _C	13.	Na.	
Additional Error Infor	mation (AMK Service)	10	10	
Recognition	72,00	N _D	700	
Error Removal	Check KSE, KS contacts	Thy is	14/2	"Up"

<ul><li>Special Lift fur</li><li>Check invalid</li></ul>					
Device	order input			6	20,,
Description	19,	770	77/202	1/9	35.
Class	12.0	7772	422	11/2	"Tale
Drive Behaviour	Drive runs dov	vn			
Device Behaviour	6.		9	9	. 6
Additional Error Info	rmation (AMK Se	rvice)	o	Tho.	7/20
		A.C.	<u> </u>	(o-	M.
Error Removal	KMD interface	(floor input and driving	g order in variable 1	)	

1838	<b>System</b>	diagno	ostics
------	---------------	--------	--------

<ul> <li>Special Lift fur</li> </ul>	nction	0,	77(0),	77/05	77/00
<ul> <li>"ID32798 Use</li> </ul>	r list 1" contains inva	lid data			
Device					-
Description	9	9	9		9
Class	743.	"The	Tho.	7/2	. · ·
Drive Behaviour	Drive runs down	-Kg.,	-Kigh.	T. S.	.6
Device Behaviour	20	77.0	"Ile	770	7/10
Additional Error Info	rmation (AMK Servi	ce)	1000	. 92,	100
774.	The state of the s		ala.	N ₁₂₁ .	The same
Error Removal	Recheck parame	ter:	4.	4.	4.
2	ID32798 User list	t1 🗼			

<ul> <li>Special Lift fund</li> </ul>	ction	7000	7000	7000	7027
	ct KS contact moni nitoring can be sw		nvalid contact position. 32798 User list 1"		
Device					
Description	9	9	9		9
Class	"The	Mrs.	The		1.0
Drive Behaviour	Drive runs dowr	1 100	W.	The same of the sa	
Device Behaviour	9	2/1/6	2/10	2/1/2	all le
Additional Error Inform	mation (AMK Serv	rice)	192	(4)	197
THE.	The state of the s		"III.	7474	The.
Error Removal	Recheck param  • ID32798		<i>y</i>		<i>A</i>

# 1840 System diagnostics

Device	27,20		77,7	200	27/2
Description					
Class	7.8%	38.5	795	Sil	o.S.
Drive Behaviour	Drive runs down	201	Pilo	314	
Device Behaviour	Ó	*OL.	2017	70,	70,
Additional Error Infor	mation (AMK Service)	5	7025	7035	7025
7/1/0	THIS.		N/O	7/1/0	41.60
Error Removal	The state of the s	•	The same of the sa	The same	Mar

20	"IIIC.		"III'C.	Willia.	
	100	3	Q.	(1)	100
Warning	The state of the s	"ala,		"The	The same
	4	4		4	4
		A	2		à
rmation (AMK	(Service)	No.	No.		16.
Sep.		RESERVE	The same	7/2	es established
30	720.		70.	720.	7/0
		rmation (AMK Service)		rmation (AMK Service)	rmation (AMK Service)



<ul> <li>Special lift fund</li> </ul>	ction	(0)	(4)	700	3
<ul> <li>KS in the desti</li> </ul>	ination not equal to 1				
Device			-	-	
Description	9	9	6		3
Class	Warning	"Tho.,	"Ma.	"Tho.	
Drive Behaviour	-Ugn,	-C. 20.	-Ugr.	-Car.	
Device Behaviour	770	"Illo		776	
Additional Error Info	rmation (AMK Service)	. 400	. 00	. 600	
	720	No.	No.	T ₁	all.
Error Removal	4		4.	4.	4.

## 1843 System diagnostics

.000	.or	70%	2007	70°C	
Device	3000	.500	.10/2/	7020	
Description	4	W. Co	W.O.	TI'S	41
Class	Warning	27	20,	20,	200
Drive Behaviour					
Device Behaviour	20	,0	0	3,	2
Additional Error Infor	mation (AMK Se	ervice)	The same	The same	
, office	*0[	RESERVE	,0[1]0	*OLL	
Error Removal	2000	2012	2002	200	
	.00	100		100	

## 4.8 No. 2048 ... 2079 Logical Subscriber, S-BUS

# 2049 System diagnostics

,017	*0[	70,	*0	Co.
10 and 10	10/10	2000	200	
7 0	"1'0"	7/0	"1'(0)	-43
Warning	112,	21/2,	7121	2/4
ŝ	<u> </u>	3	9	Q)
nation (AMK Se	ervice)	9	72/ ₁₀	Alex
OU.	No memor	ry enable in PDU proc	cessing	60
~3175°	- SIJI	- dille	- 100	
		mation (AMK Service)	mation (AMK Service)	

2	A		2	\	A
Device	10.7				
Description	Naga.	Naga.	Value .	Naga.	
Class	Warning	110	110	10	
Drive Behaviour	20,0	1900	.92,0	'92,o	,
Device Behaviour	2	27.	24/	74,	74;
Additional Error Infor	mation (AMK Service)		11.	21,	27
20,	. 3			evaluated is not know ware problem version	
Error Removal	A.	Alex	T. Marie	Ex.	-

Waiting time a		147.		A.	147.	al.
Device		-eL	· 12		-11,	-42,
Description						
Class	Warning		6	9,		9
Drive Behaviour	Tho.		Ma.	"The	~	143.
Device Behaviour	The state of the s		The same	Mar.	-C(2)	3
Additional Error Info	mation (AMK	Service)	9	all C	allie	allie
(90)		. 600	LT timeout	. 600	. 650	. 300
Error Removal		Mari		74.	"1124".	The same of the sa

#### 2052 System diagnostics

Device	5				
Description		700	70/2	70/20	70%
Class	Warning	14/13	This section	14/100	74/10
Drive Behaviour		27,	22,	M,	2/4
Device Behaviour					
Additional Error Inform	nation (AMK	Service)		. A.S.	
27/1	201	27/2	19	, ă	3
Error Removal	3	,01	,00	, of the	.00

# 2053 System diagnostics

Device	9	9	9	9	
Description	"Thou	"You.	The.	"Tho.	
Class	Warning	"Car.	-Clar	The state of the s	2
Drive Behaviour	100	Nigo.	NII.C	allo.	
Device Behaviour		. 400	92	(Q)	.00
Additional Error Infor	rmation (AMK Serv	vice)		The same	Mr.
4.	3,	Error LT-DTH		4.	4.
Error Removal		2	7	Α.	

Device		dgement in commanding the monitor				710,	
Description		the state of the s	900	244		Tales.	
Description	~					4	
Class	Warning						
Drive Behaviour	2.0	285	5,				
Device Behaviour	T. A.	The same	X	He	T. A.		
Additional Error Infor	mation (AMK S	ervice)	.70%		xolf.	, so	
76 ₀₄	,	Error	LT-MONITOR	800	3	7032	
Error Removal		7/0	7/0	7/0		710	



	=					
<ul> <li>Error acknowle</li> </ul>	edgement in o	command	ing the serial EEPRON	1 3	79,	.35
Device	4.		and the second	224	The same of the sa	220
Description			-			
Class	Warning	9	9	9		9
Drive Behaviour		Fo.	. No	"May	74,	D
Device Behaviour	-400		-C. E.	-US.	The state of the s	
Additional Error Infor	mation (AM	K Service	) , , , , ,	770	770	
S.	900		Error LT-SEEP	. 8	. Op	
Error Removal	20		Thu.	11/20	7/4,	77.45

#### 2056 System diagnostics

<ul> <li>Error acknowle</li> </ul>	dgement in con	nmanding the operation mo	de management	Sig.	
Device	10	100	101	101	
Description	70,50	700	70/2	702	2
Class	Warning	4/10	The same	"Aylo	.41
Drive Behaviour	_	274	200	20,	270
Device Behaviour					
Additional Error Inform	nation (AMK S	ervice)		, <u>?</u> ,	
Sight.	The	Error LT-BAV	197	Eg	
Error Removal	, offi	, of C	*0[1]	*0//	

## 2057 System diagnostics

	edgement in command	ing the drive command	ing KMD		
Device	9				
Description	The same	To.	"Tho.		9
Class	Warning	"Was.	The state of the s	"Us.	
Drive Behaviour	alle		NIG.	"ILO	
Device Behaviour	(g)	190	(9)	192	
Additional Error Info	rmation (AMK Service	122	The state of the s	"Mu.	The same
4.		Error LT-KMD	4-	4.	4
Error Removal	À	2	À		A

<ul> <li>Error in LT → F</li> </ul>	MD commanding ir	$verter, LT \rightarrow KMD$	O - logical subscribe	r at KMD-SS	Š
Device	41.50	"Up"	"Ayiles	74/2	"TH's
Description		174	M.	21,	1/2
Class	Warning				
Drive Behaviour	, 3.S.		3.5°		
Device Behaviour	25/1	_250	1	377	"Side"
Additional Error Infor	mation (AMK Servi	ce)	86	26	KOLL.
70 ₂₀	10g2	7037	70 ₉₇₂	25	2
Error Removal	11/2	71/2	4/0	M.C.	"His

<ul> <li>Error in LT→ k</li> </ul>	MD commanding AW2		300	(0)	770)
Device	7774		" International Contraction of the Contraction of t	720	220
Description					
Class	Warning	9		9	3)
Drive Behaviour	"This."	They.	740	N. W.	-
Device Behaviour	1 ( Sp. )	The same	-Kigh.	The state of the s	
Additional Error Info	rmation (AMK Service)	50	276		
(4)	. 300		. 600	. 60	. (1)
Error Removal	The same of the sa	•	ala.	274.	Ma.

#### 2060 System diagnostics

<ul> <li>Error in LT → K</li> </ul>	(MD comman	iding AW3	John Colon	287	4
Device	Q.	NO.	101	10/	101
Description		705	70/2	70/20	700
Class	Warning	14/12	74/10	"W ₁ "	"Williams
Drive Behaviour		27,	20,	Ma.	274
Device Behaviour					
Additional Error Inform	mation (AMK	(Service)		36,	
20/4	J. Carlo	27	17/4	THE STATE OF THE S	ı
Error Removal	of Contract of Con	,of	, of	XOIT TO THE PARTY OF THE PARTY	70,

# 2061 System diagnostics

<ul> <li>Error in LT → I</li> </ul>	KMD commanding	AW4	4	-	
Device	9	9	9	١	9
Description	"Tho."	"Tho."	"Tho."	"The	, ·
Class	Warning	-Car	"Clar.	- Car	20
Drive Behaviour	100	allie.	all C	alife.	
Device Behaviour		(9)	. 60	. (6)	. (3)
Additional Error Infor	mation (AMK Serv	vice)	12/2	"the	77724
4.	4		4-	4.	4-
Error Removal	2	2	2		2

<ul> <li>Error in LT → K</li> </ul>	MD commanding AW5		7000		Page		1000
Device	747		74/2		74/2		"Ayje
Description	1/2.		27,		20,		Mr.
Class	Warning						
Drive Behaviour	7.9.Z	13.5		195			
Device Behaviour	25/2	THE		217/2		Sidle.	
Additional Error Inform	mation (AMK Service)	C.	20		.of		100
100°	7092		1020		1020		7031
Error Removal	71/2	•	45		"4 ₁ 'C	•	"His



Error in LT → K	MD commanding	AW6	1950	,8	\$2
Device		The state of the s	144		
Description				- 20	
Class	Warning		8	9	9
Drive Behaviour	1/3.		Mr.	Tho.	
Device Behaviour	C.S.	_<	27	-C. S.	43.
Additional Error Inform	nation (AMK Serv	vice)		<u> </u>	17 _C
8	900	.89°	.000	.8	5
Error Removal	5	All .	The state of the s	774.	"High.

#### 2064 System diagnostics

<ul> <li>Error in LT → N</li> </ul>	ID commanding	AW7	792),	191d.		"gid,
Device	101	. 10	35.	101	. 30	50
Description	7000	1000		1000	No.	à
Class	Warning	14/10		41.00	"Aji	THI.
Drive Behaviour		274	24,		224	2/4
Device Behaviour						
Additional Error Infor	mation (AMK Se	rvice)	38.5,			1.3.C)
201	200		200	30/2		"ide
Error Removal	*O[[]	8	26.	x0 ^C C	_× c	N. C.

## 2065 System diagnostics

<ul> <li>Error in LT →</li> </ul>	KMD commanding AW8		- 27	- 70	- 19
Device	9	6	9		9
Description	Tho.,	"Ho.,	"Mo.,		Tho.
Class	Warning	The state of the s	"Up"	~60	30.
Drive Behaviour	7750.	The.	7/20	2/1/20	
Device Behaviour	9,	. 60	. Or	. 45	
Additional Error Info	rmation (AMK Service)	14.	11/4	7774	The same
4-	4.		4-	4.	4.
Error Removal		À	à		A

Error acknowle	edgement in comma	anding a drive control	70,47	7025	λ
Device	45	'44' ₁₀	14/10	'Aj'	'4 ₁ ',
Description		Mr.	Mr.	20,	20
Class	Warning				
Drive Behaviour		2.2		A.S.	
Device Behaviour	THE STATE OF THE S	197	64	,	d.
Additional Error Infor	mation (AMK Serv	rice)	70%	, NOX.	
70 _{1/2}	7082	LT drive error	. NO. 10		2
Error Removal	7/2	77/10	7/1/2		7/1

Error acknowle	edgement in co	ommandin	g the diagnostics		300	700
Device		Thu.	224		220	The state of the s
Description						
Class	Warning		9	9	9	
Drive Behaviour	Tro.		"Tho."	7K3	"This.	
Device Behaviour	Total Control		-C. 10.	My.	The state of the s	.6
Additional Error Infor	mation (AMK	Service)	3	0	7/10	2/1/10
. Open		190	LT diagnostics error		. Q.,	. 100
Error Removal		True.	414.		The same of the sa	Na.

#### 2068 System diagnostics

<ul> <li>Error acknowle</li> </ul>	edgement in c	ommanding	the display function	Age)	, di	4	ζ.
Device	O.	. 80	20	5/2	101		101
Description		1000	. KO		1000	.10	8
Class	Warning	"Myles	14/1/2		24/2	14/10	
Drive Behaviour		200	214.		M.	The same	
Device Behaviour	_						
Additional Error Infor	mation (AMK	Service)	7.9.Z,	3.2			
29/2	-side		Error LT display	30/2	-8	He	
Error Removal	6		×(	200	2017		2017

# 2069 System diagnostics

Device		anding the lift function		8	
Description	Mon	- No.y	- AD.		
Class	Warning	16 p.	160	7(2)	2.
Drive Behaviour	200	"Jib	731°	776	2750
Device Behaviour		900	. The	(Q)	190
Additional Error Info	rmation (AMK Serv	vice)	24.	May.	May.
	4	Error LT lift		4,	4,
Error Removal	2	À	2	2	

<ul> <li>LT-SBUS, inve</li> </ul>	rter not present	5	No.		1000		No.
Device	74/2		TA L		"Aying		Miss
Description	200		21,0		20,		4.
Class	Warning						
Drive Behaviour	7.9.Z,	J#2,		. 3.9			
Device Behaviour	24	201		212/2		Style .	
Additional Error Infor	mation (AMK Service)	10 ¹	, d		707		70,
1000	20%	50	1000		7097		1082
Error Removal	W.C.		Miles.		71/0		410



Device	720						
Description							
Class	Warning	9	9	ò	<u> </u>	9	
Drive Behaviour		They.	. Ho.	The.		The same	
Device Behaviour	System r	System run-up aborted					
Additional Error Info	rmation (AM	IK Service		720	7/6		
8	Info 1	1	Error during ini	tializing of S-Bus (caus	sed by ABK card)		
3	720	2	Error in COM p	ort	Ala.	The state	
Error Removal		-	74	4.	4,	4,	

Device	7000					
Description	74/10	.4	4.10	14/0	'AJ.	.4
Class	Warning	27/4		22,	R.	27/4
Drive Behaviour						
Device Behaviour		25			20	25
Additional Error Infor	mation (AMI	K Service)	27/2	.6	tole "tole	
, of the	Info 1	1	Module receive	ed a PDU from wr	ong S-bus port	
.10875	7037	2	S-bus PDU cor	ntains a unknown	S-bus attribute	
9	7/1/2	3	S-bus PDU cor	ntains a unknown	Sercos element number in	task
No.		4	Drive has repo	rted a SB_task_e	rror	712,
		5	S-bus PDU cor	ntains unknown S	-bus command code	
Error Removal		9	-01		9	9

		(0)			300
Device		The same	72/2	22/2	The state of the s
Description					
Class	9		3	6	9
Drive Behaviour	Mrs.		"H3.,	7/6°.	M3.
Device Behaviour	System ru	n-up aborte	d d	ly,	200
Additional Error Infor	mation (AMI	( Service)	10.	7/20	770
(g)	Info 1	33	Length of ID34040 not p	permissible	1200
Mr.		34	In ID34040 Time base r	not permissible	W.
120		35	In ID34040 Trigger posi	ition not permissible	20
2	A	36	Too many values per cy	/cle	λ.
10.7	15.4	37	Resource error	70 ×	10,4
90	Carlo.	39	Signal code not availab	ole	200
3	0	40	Command code not per	rmissible	70
1900		41	A new configuration wa	s transmitted during the R	UN mode
"Ay		42	Read-out mode not per	missible	Ty.
17,		44	Channel number not pe	ermissible	2,
		45	Buffer length incorrect		
23/40.5.	"iffe.?"	46		triggering of an external so pering (Bit4) were adjusted	
,	.05	47	An external triggering w	as configured but there is	no free PDO
7/1/200	,	48	The difference between and the trigger receiver	the system watches of the is negative	e trigger sender
720		49	No free HEAP for the bu	uffer	724
Error Removal		echeck Para		184	189

<ul> <li>Disturbance o</li> </ul>	f scope func	tion	"1 ₂₄ ".		42,	44.
Device						
Description					_	
Class	13.8		79.5	195	19.9	
Drive Behaviour	30		200	200	29,04	
Device Behaviour	System r	un-up abort	ted	401	10/L	10/3
Additional Error Info	rmation (AM	IK Service)	702	9	70,50	70%
4/10	Info 1	1,41	Allocate memory		"Ayles	" Splan
The state of the s		2	Re-allocate memory		N.	20,
Error Removal		•				

#### 4.9 No. 2304 ... 2369 Inverter Hardware

#### 2305 Phase U Short Circuit

Device	AW			
<ul> <li>As from AW 02</li> </ul>	10 replacement by message 2	334	27/2	AL THE
Description	10 ¹	XOLC TOWN	,of	*OLL
Class	2000 2000	2	10 ² 10	7030
Drive Behaviour	Drive runs down	21/2	,	450
Device Behaviour	Single treatment	717	27,	274
Additional Error Infor	mation (AMK Service)			
20,	3	~ (g)	20	20
Error Removal	"Jr."	Ma	The.	"Ma

#### 2306 Phase V Short Circuit

3	740.	74.	The same of the sa	7/4,	The state of the s
Device	AW		4,	4,	4,
<ul> <li>As from AW 02</li> </ul>	210 replacement by mess	sage 2334		2	2
Description	Though a	"May."	W.	2.5	No.
Class	May,	May.	Mar.		Car,
Drive Behaviour	Drive runs down	"J _{to} "	Mo.	170	
Device Behaviour	Single treatment	1900	190	.35°	
Additional Error Info	rmation (AMK Service)	Z4.	.44,	The state of the s	127
12	12,		1,	1,	20
Error Removal				_	Δ.

#### 2307 Phase W Short Circuit

Short-circuit be	etween 2 phases o	f the output terminals			
Device	AW	7/2			.41
Defect in the A	AW. As from AW 02	10 replacement by mes	sage 2334	No.	272
Description					
Class	20	20		3,	23
Drive Behaviour	Drive runs dow	n all	30/2		1
Device Behaviour	Single treatmer	nt of the	, of 10	, of Co.	
Additional Error Infor	rmation (AMK Ser	vice)	Na Para	Na _D	
60.	7/10.	²⁴ (O).	"4' _O .	"Y _i Q.	41,
Error Removal	1/2	Ny.	120,	N _{th}	114

#### 2308 Supply +12 V

Vaga,	1000 m	10 m	N. S.	Vaga,	
Device	770,	"310.	770.	170.	
Description	900	1900	1900	(1)	- (
Class	74	The same	My.	My.	The state of the s
Drive Behaviour	Drive runs down		10	14	20
Device Behaviour	Single treatment	2	2	_	λ.
Additional Error Info	rmation (AMK Service)	10 X	10%	100	, X
Vales.	Naga.	Naga.	Nage,	The state of the s	
Error Removal	10,	110	10	1/0/	



# 2309 Supply

<ul> <li>Internal supply</li> </ul>	voltages of the inverter	module do not have	the correct value	7705	79
Device	AW AZ	My		Way.	ny.
<ul> <li>Damaged ribb</li> </ul>	on cable, connection at t	the connector X27 of	the AZ module or 2	X57 of the AW mod	dule is faulty
Description	The.	"Thou	The.	-74.	D
Class	- C	"Kigs."	-Kigh.	- Car	26
Drive Behaviour	Drive runs down	30	all o	"Ilo	
Device Behaviour	Single treatment	. (	90,	. 90	. (1)
Additional Error Infor	mation (AMK Service)	914		T ₁₂₀ .	No.
4,	1	2		4.	4,
Error Removal	À	A	7		À



#### 2310 Encoder communication

- Error in communication with encoder
- Encoder does not report/no encoder present
- Encoder cable defective or not connected

Device	L.	-		"The		-A.	"ALC	
Description	- Car			Mar.		Mar.	Migr.	
lass	Warning					allio.	illic.	
rive Behaviour	Drive runs	down		3		9	S. C.	
evice Behaviour	System ru	n-up abo	orted			The state of the s	74, 72,	
dditional Error Infor	mation (AMK	Service	e)		4,		4,	
	Error in c			n:			<u> </u>	
	Info 1	31		Timeout: No	acknow	vledgement of th	ne encoder	
	ZiG)	2				ansmission of th		
	100	3					e encoder is set	
	700r	4		637		rn encoder reco	~~~~	
ALA S	4			Info 2	0	ID32776 'Sir real solution	ne encoder period' is higher than the of the single turn encoder. Check 032953 'Encoder type'	
		9		P-/Q-enco	der: ID3	34265 'Encoder	ratio'	
	and de			OLL STATE OF THE S	1	Motor revolu	tion or encoder revolution not equal	
	NIJE.			Will Comment	2	No power of	two	
	14 GO.			8	3	Motor revolu encoder	tion not equal 1 on singleturn	
		5	4	Handshake: The answer of the encoder is wrong, disturbed communication, damaged encoder.				
	, id	6 Command cannot be executed by driver since encoder no Help: Start System run-up again					1/2%	
	20T	7		Motor was in	motion	when reading t	the position	
	3535			Trigger		2002	Measure	
	A 100			AFP comma	and RE	AD_SINCOS	Increase ID57 'In position window'	
	,			ID32843 'Se 0x14	ervice c	ommand' =	Increase ID57 'In position window'	
	3	⁽³⁾ (3)		ID32843 'Se 0x10 / 0x11		ommand' =	Motor must stand still	
	" apartouse,			ID32843 'So 0xEDA3	ervice c	ommand' =	Increase ID34099 'Delay time SWC' ID34099 = 0: T _{Osc} = 400 ms ID34099 ≠ 0: T _{Osc} /ms	
		6			Á	1474	zero or around point of adjustmen at encoder tuning	
	Pilos.	1300		Run-up		2874	Motor must stand still during run- up	
	thailtol.	8		Encoder pro type at prese			e.g. digital resolution to high, encode	
	74 CO.	9	an'	Signal error equal to the			he analog pulse (SIN, COS is not	



1943	Error in a	action with en	coder database:
	Info 1	10	Identification: Reading error ID32842 'Encoder list customer', the encoder data are invalid Help: The ID32842 must be recorded with valid data.
		11	Checksum wrong: Data of ID32842 'Encoder list customer' in the encoder are wrong. Data of the were changed in the system without saving them in the encoder
	. Akadi	12	ID32842 'Encoder list customer' was changed without saving the data in the encoder
	'idparious,	13	Identification: Reading error "encoder list motor", the wrong list is invalid or the list is empty.  Help: The encoder list motor must be recorded trough AMK with valid data.
	8	14	Checksum wrong: Data of the "Motor encoder list" in the encoder are wrong. Data of the "Motor encoder list" were changed in the system without saving them in the encoder
	Sighter A	15	The data of the ID No. listed in the "User encoder list" require more memory than available in the encoder
	10	16	The addressed memory cell may not be written
	7000	17	Entered address does not exist
	(S)	18	The memory range in the encoder cannot be determined correctly
		19	The offset address in the encoder cannot be determined correctly
	, 160 d	20	ID34160 'Part number motor' is not equal with the part number motor witch is written into the encoder Help: Read the motor data from the encoder.
	140 Car.,	33	Setpoint in ID32942 has a invalid polarity sign, referred to the motor sense of rotation ID32773, bit 16
	^{[i} q _{p_s}	34	The absolute setpoint in ID32942 is over the limit of the encoder (ID116 x distinguishable revolutions of the encoder )
M.	Errors in	access to da	ta stock:
	Info 1	30	Reading access:Error on reading data from DTH
		31	Writing access:Error on writing data into DTH
	ale de la companya della companya della companya de la companya della companya de	32	ID wrong: ID number not available
	xd ^C	40	Inadmissible status
	70977	41	Timeout encoder commanding
Error Removal	150	71,0	77.02
Encoder errors of	of the option card h	(U-/KW-EN1 a	re distinguished from the motor encoder by Info 1 + 100

Device	IDT	IDT							
Description	Messages during run-up (ID32773.23.= 1: reading the absolute position during initialisation)								
Class	see belo	see below							
Drive Behaviour		~ (v)	2,	~3	2.	Main		1200	
Device Behaviour	System r	un-up abort	ed	7:40,		7:10,		71,0	
Additional Error Infor	mation (AM	K Service)	The state of the s	1		My.	3	12,0	
	ID32773	.27 = 0							
	Info 1	6	Warning Monitor of the UPS supply has triggered						
	Q Carr	9	Error Actual position active (position			been detected v	while no UPS	S was	
	ID32773	.27 = 1	•	410		77/0		11/0	
	Info 1	3	Error			274,	7	144	
			Info 2	10	Survey of v	alid Flash has a	activated		
	ald karli	9	Error Faulty encode	r angl	e was detecte	d during system	ı run-up		
Device	IDT						10		
Description	Error in c	combination	with absolute enco	der (t	ype C)	.85°		.300	



Device	IDT 🔊	70	114		201		"Ide
Class	see belov	N	2017		201	305	7.
Drive Behaviour	2000		7020		2000	1020	
Device Behaviour			71/0		14.10		
Additional Error Info	rmation (AM	K Service)		47	Le	Ma	The same
	Info 1	3	Absolute ence	oder er	ror		
		9	Info 2	1	Speed higher th	nan 6000 rpm	200
	AL INTE	Jr.	Matake	2		nt during the enco	
	diffe		and the same	6	Communication	error during the	read access
	190		300	7	Communication	error during the	write access
	172	102	2.	8	System SW erro	or Maria	74,
		7		9	Position lost be mode command	cause of the dee	p low power
		16 S.	Kay.	10	No valid record	for position data	is detected
	, North die	5	Error Encoder com	munica	ation error	. NO.	Carlo.
	" A GOOL	6	Warning Absolute ence	oder po	ower off detected	"H' 1920	, d'
	2	8 34	Error Faulty encode	er firmw	vare	Mr.	n.
		9	Error Motor movem	ent in I	ow power mode w	rithout USV	16.0
Error Removal	<ul> <li>Encoder included in motor electric         Message incl. info 1 and info 2 to AMK service for error localisation</li> <li>If info 1 = 2, the motor can be moved to a known position and with the service command according ID32843=0X12 the encoder position can be set new.</li> </ul>						

#### 2311 Encoder signal

- Motor encoder defective
- Encoder cable defective or not connected
- Motor is equipped with a D encoder
- Possibly A encoder with defective field plates
- The SINE encoder monitoring can be switched off through ID32773

Device	Car.		Man, Man, Man, Man, Man, Man, Man, Man,
Description	7	230	, ile
Class		1200	'S'. 'S'. 'S'.
Drive Behaviour	Drive run	s down	The state of the s
Device Behaviour	Single tre	atment	4, 4,
Additional Error Inform	nation (AMI	K Service)	2 2
algha y	Info 1	1	A/I/T encoder hardware: Inadmissible level at the encoder input
		2	I/T encoder amplitude: The amplitude at the A/D converter input of an encoder track is less than
		"HHHIO"	0.6 V (normal level: 2 V). Filtration: 5x within 50 ms leads to shutdown.
		3	T encoder timeout:
	Mag.		In homing with T encoder or operation of synchronous machine with T encoder no feedback of the encoder.
(g)	Car.	4	T encoder reception:
		.10 ⁰ 1,11 ⁰	In homing with T encoder or operation of synchronous machine with T encoder faulty transmission of the encoder.
4/2		5	T encoder error bit:
		The state of the s	In homing with T encoder or operation of synchronous machine with T encoder the internal error bit of the encoder was set.
9	9	6	T encoder position
	Cicho.		On operation of synchronous machine with T encoder the drive has moved on system run-up.
'Widpane		7 Midbaile	Resolver:  Amplitude of a resolver signal at the A/D converter input is less than 0.6 V (normal level: 2 V)
Mr.		12	A/I encoder amplitude: The amplitude at the A/D converter input of an encoder track is too large.
28	20	13	Initializing ENDAT encoder
Device	AW		The Me
"I _{IC} "			error analysis (code) through monitor cell M 7CFF. o apply for S encoder
Error Removal		90,	120

#### 2312 Output Terminal Ground Fault

Device	(o)	10,	10,	10,	(0)
Description	. 70°	3	70,00	1000	.2000
Class	74/2	74		This said	Tyl.
Drive Behaviour	Drive runs down	27,		2/2	1/2
Device Behaviour	Single treatment				
Additional Error Info	mation (AMK Service)	795	798		³ ·5,
27	44	44	24	12%	
Error Removal	Defective motor conr	nection cable or a def	ective motor	, of .	vo.



## 2313 Synchronous running error

<ul><li>Inadmissible 1</li></ul>	6-bit position command	value input (step cha	ange) or disturbed signal	patris	22
Device	2,				
Description					
Class	9	9	9	9	
Drive Behaviour	Controlled braking	"Thou	"Mar	"Mar	
Device Behaviour	-Ugh,	- Contraction	- Care	C.S.	
Additional Error Infor	mation (AMK Service)	276	7/10	7/10	
8	90	120	. 800	. The	
Error Removal	Usually hardware pr	oblem, see. Com. err	or AZ M881C	2720.	True.

#### 2314 Master Synchronous Telegram AW

<ul> <li>Master synchro</li> </ul>	nous telegram erro	or on inverter	79.0	7	30
Device	101	10/1	101	101	
Description	70,50	7000	702	102	2
Class	4	"Ay's	14/100	'Aj'	The same
Drive Behaviour		274	274	No.	274
Device Behaviour	Single treatment	t			
Additional Error Inform	mation (AMK Serv	rice)	8,	3.2	3.2
201	201	22/2	20		ig.
Error Removal	xoft.	, o'l'	,01	70,	

#### 2315 AW controller clock error

Device	AW	W.	Mo.		10.0
	AZ				
Description	"ALO.	776.	7760.	"Jio.	
Class	900	1900	1900	'92,	
Drive Behaviour	Drive runs down	My.	My.	The state of the s	The same
Device Behaviour	Single treatment	7	14	10	10
Additional Error Info	rmation (AMK Service)		2		
10 X	12 ×	Mark.	NO.		10.7
Error Removal	<ul> <li>Damaged rib</li> </ul>	AZ -> AW interface bbon cable at the connector X27 o	of the AZ module or X	57 of the AW module	is faulty

#### 2316 Motor direction of rotation

<ul> <li>Direction of rot</li> </ul>	tation monitoring recognizes	defect on activa	iting RF (only mo	tor operation)	a.S			
Device	18 18 18 18 18 18 18 18 18 18 18 18 18 1							
Description	, of C	,0K1	, of C.	70,				
Class	1933 C	Nagara and a second	Cap.	Wally .				
Drive Behaviour	Drive runs down	2,	71,0,	"1'Q"	45			
Device Behaviour	Single treatment		200	2/24	The state of the s			
Additional Error Infor	mation (AMK Service)				-			
9	9	- 9		)	9			
Error Removal	Encoder tracks reversed	polarity, output t	erminal phase se	equence	The same			

#### 2317 External encoder direction of rotation

<ul> <li>Reserve, this r</li> </ul>	nessage is not yet supported	300	7(0)	79
Device	TIL.	72/2	" The	The.
Description				
Class	6	9,	9	9
Drive Behaviour	Drive runs down		10°	Fo.,
Device Behaviour	Single treatment	The state of the s	N. S.	
Additional Error Infor	mation (AMK Service)	NIG.		
, Color	.08	. 600	. 45	.00
Error Removal	Encoder tracks reversed polar	ity	No.	alu.

#### 2318 Control deviation

- Position control difference has exceeded the increment number defined by means of ID159
- Torque limits ID82 / ID83 too low
- Check speed controller parameters ID100 / ID101
- Position control parameter ID104 not optimized
- Speed limit ID38/ID39 too low
- Motor too weak for this application
- Inverter module too weak for this motor

Device	13h	Tolk .	19/2	THE STATE OF THE S	
Description	01/2	*Office	xoff.	*0[[	70,
Class	20	P	70/1/2	200	2020
Drive Behaviour	Controlled braking		10		74,10
Device Behaviour	Ma	71/2		22	No.
Additional Error Infor	mation (AMK Service	)			
2	3	- 3	3	20,	
Error Removal	<ul><li>ID39 Negati</li><li>ID82 Positiv</li><li>ID83 Negati</li><li>ID100 Propo</li></ul>	e velocity limit ve velocity limit e torque limit ve torque limit ortional gain speed co		What if particularly	white grant of the state of the
	A.X	ration acting time spe on loop KV factor ssive Error	ed control TN		

#### 2319 n > nmax

Device	16.7				
Description	Sign.	Viga.	VII.	187	
Class	Ø .	10,	10	10	.85
Drive Behaviour	Drive runs down		"Popularian	No.	720
Device Behaviour	Single treatment	.03	1.	14/2	Taj i
Additional Error Infor	mation (AMK Service)	27,	7/		27,



#### 2320 EF inactive

<ul><li>Output stage e</li><li>EF check</li></ul>	enabling (EF) inactive with c	ontroller enable F	RF active		
Device	-51		-19	-24	-24
Description	9	9	6	9	
Class	T/3.	"H3.,	The same	"Tho.,	
Drive Behaviour	Drive runs down	Kar.	Typ.	T.	
Device Behaviour	Single treatment	710	770	770	
Additional Error Info	rmation (AMK Service)	80,	Sp.	The same of the sa	<
3	72,		71/2.	7121.	all de
Error Removal			2,	1,0	4,

## 2321 System diagnostics

<ul> <li>IGBT monitorir</li> </ul>	ng in PWM d	evice detects of	overcurrent	10°C	10°C	
Device	KE/KW		7000	7000	7000	
Description	12/19	17.	100	74/2	"41/2	42.
Class	Error	10		1/2	197	12,0
Drive Behaviour	Drive rur	is down				
Device Behaviour		10.X	12.8	NO.	Α,	3.7
Additional Error Infor	rmation (AM	K Service)	N. S.	A STORY	VII.	
10	Info 1	0	I*t monitoring,	30 ms, 110% lmax IGE	BT (%)	
No.	100	1	Failure in Seep	o-list (cell 20014)	120	
	74/1.	2	The IGBT temp	erature is greater thar	allowed for this type	42
Error Removal	• C	heck overload	d / motor sizing by measuring m orque limit) optimi	•	ý,	3. j.
Class	Warning	33			(A)	
Drive Behaviour	140,		7/0,	70,	720,	
Device Behaviour	System r	un-up aborted	,800	1900	100	
Additional Error Infor	rmation (AM	K Service)	75.	"UM".	"Hay.	-1/24
12	Info 1	3	Temperature m	nodel is not supported	4,	20
Error Removal	• U	pgrate to new isable tempera	of the device (SE revision (SEEP-catur model via ID message will be	lata) 32901 Bit9=0	emperature model is di	sabled)

Device	9	9	ò	}	9
Description	"A/2"	Thou	"Aro."		"Thom
Class	The same	200	The same of the sa	3	Co.
Drive Behaviour	Drive runs down	allic	Will Comment	allie	
Device Behaviour	(0)	(0)	(0)	(4)	
Additional Error Info	rmation (AMK Service)	2	71/4	Thu.	, salar
4.			4.	4.	4
Error Removal	2	<i>λ</i>	2		À

<ul> <li>VECON watch</li> </ul>	dog		- COS		- Capa		7000
Device	220		" International Contraction of the Contraction of t		The state of the s		The state of the s
Description							
Class	9	9		9		9	
Drive Behaviour	Drive runs down	"Tho.		Tho.		"Thou	
Device Behaviour	The state of the s	7(Cg),		Co.	25.	(g.,	
Additional Error Infor	mation (AMK Service)	200	230	,	Nico		
. (30°	(10)		. 90		.000		. 60
Error Removal	all of the second		'ALA		The state of the s		ala.

## 2324 System diagnostics

CV.	ficance in the AW SEEP invalid (M8 fferentiation of the U _Z sensors new 1		uning elements)	, torri
Device	,X5000			
Description	'4 _{7.2}	The same of the sa	'44', S	"THE STATE OF
Class	27.2	20,	274,	27,
Drive Behaviour				
Device Behaviour	System run-up aborted	200	20.0	
Additional Error Inform	mation (AMK Service)	30/	19/	
Z.	d ( , d ( )	*O[]	xol()	70%
Error Removal	20%	10/20	70/20	30%

## 2325 System diagnostics

<ul> <li>Error (timeout 5</li> </ul>	5s) current controller ad	justment 💍		9	9	
Device	740.	Mrs.	"Th	0.00	Thomas	
Description	3/200	Mar.	The same		Clar.	, C
Class	9	Ji.	, allie	all the	,	2010
Drive Behaviour	Drive runs down		. 60	(9)		(9)
Device Behaviour	Thu.		14144	1444	3	17.20
Additional Error Inform	mation (AMK Service)		4-	4.	4	
8	8	8		8	8	
Error Removal	W.	W.		9×	W.	

" My jo	" Z ₇ ; , ,		This.	12/1/2	'91' ₁₀
Device	20,		10,	20,	M.
Description					
Class	2.2		(	3.5	. A.C.
Drive Behaviour	Drive runs down	25/1	191		THE STATE OF THE S
Device Behaviour	S	xoff C	,O(1)	,x.O	Notes
Additional Error Inform	nation (AMK Service)	5.	:070	10801	10/10/2
	11/0	Rerserve	741.CO	"M'.CO.	74 ¹ (2)
Error Removal	27,		N _{th}	My,	20,



# 2327 Plausibility of the External Encoder

Device	£"						
Description	Plausibility monitoring software)	g between motor e	ncoder and ext. encoder	der detects too high slip	(special		
Class	12.4	10.7	150	,×	F3.X		
Drive Behaviour	Drive runs down	Sept.	The state of the s	A. A.			
Device Behaviour	740,	110	110	10			
Additional Error Info	rmation (AMK Service)	1900	1990	1900	.6.		
	137	127	The same	74,	727.		
Error Removal	1/4		24	24	24		

## 2328 System diagnostics

For instance, if a	card e.g. in the KU. an AMK-A encoder is defined	in "ID32953 Encod	er type", then the op	tion card AW- /KU- AG1	must
also be detected	(5)		7.0°		
Device	720				
Description	12,	10		20	20
Class	2			Δ.	
Drive Behaviour	10.X	NO.X	10%	10.7	
Device Behaviour	System run-up aborted	A STORY	190	100	
Additional Error Inform	nation (AMK Service)	10	10	10,	
1900	20,0	D-	1992	1200	. 6
Error Removal	The state of the s	.6	27.	44,	This.

## 2329 System diagnostics

	error in synchronous i tion of the motor in sy		encoder (SINCOS al	osolute value encoder).	le.
Device					
Description	92	. 60	.00		
Class	74	The state of the s	14/14	12/2	42
Drive Behaviour		4-	4-	4	4
Device Behaviour	System run-up abo	orted		À	À
Additional Error Info	mation (AMK Servic	e) (0)	3	® [™]	FO. X
100 m	N. S.	100	N. S. C.	The state of the s	7
Error Removal	720.	120	720.	"Jio.	

					-
Device		25		%.S.	
Description	24	27/2	125		1675
Class	*Office	, of (1)	,0[1]	xd	C.
Drive Behaviour	200	2020	,53 ¹ )	:080	3
Device Behaviour	System run-up aborted	1,0	7/0	71/0	2/10
Additional Error Infor	mation (AMK Service)		112,	No.	27,00
		Reserve			
Error Removal	23	2		, j	2.3

<ul><li>Ramp down e</li><li>The actual specification</li><li>ID32773</li></ul>	error eed value is not reduced in the 0.5 s	grid. The ramp down moni	toring can be switched	l off through
Device	AW			
As from AW 02	210, AW ramp down error	10 X	10.0	
Description	The state of the s	Vage,	Carlo,	.6
Class	10,	10	10,	110
Drive Behaviour	Drive runs down	1900	1900	1900
Device Behaviour	24/2	741	741.	Thy.
Additional Error Info	rmation (AMK Service)	21,	74,	19,
Error Removal	70%	798		

# 2332 System diagnostics

7,0,	7/0,	-	7:0	7:0	71,0,
Device	1/1/2	21/2	-	24,	11/2
Description	Motor phase error (speci	al software)			
Class	9	O.	9		9
Drive Behaviour	Drive runs down	The	The		The same
Device Behaviour	System run-up aborted	(0		The state of the s	,
Additional Error Info	rmation (AMK Service)		~9 <u>77</u> 0	~9JZ	- 10 m
7/0/	7700		(0)	750	300
Error Removal	Check motor connection	and motor cabl	е	The same of the sa	200

#### 2333 Position growth too large

	ot process the cyclic 32-bit nput of setpoint by user	t position set	point growth pe	r 500 µs (samplin	g time)	
<ul> <li>Fault of the bu</li> </ul>	)					
Device	" My		The same	This.		" My
Description	27,		19,	27		19.
Class						
Drive Behaviour	Controlled braking	19.5		195.	13.2	
Device Behaviour	200	200		901	200	2
Additional Error Info	rmation (AMK Service)	O.	10,		101	10/1
70/27	7032		70,45		037	70,000
Error Removal	7/1/2	•	" III	"4 ₁ '.	9	N/L

<ul> <li>Output termina</li> </ul>	al overcurrent				
Device	350	Old in			
Description	No.	~31Jp	~ dille	~9 ₁₁	- Allie
Class		77(0),	770,	77.00	71/0),
Drive Behaviour	Drive runs do	wn	"Ing.	"Value.	200
Device Behaviour					
Additional Error Info	rmation (AMK Se	rvice)		9,	9
The	"The.	Mr.	"T ₁₃	y.,	"The
Error Removal		ACTOR!	A. Carrie	200	



#### 2335 Error reference pulse

eference pulse ID3277	'3. 6=1 is active			
reference pulse				
9	9	-	3	9
Mrs.	"Thou	The.		F.S.
Drive runs down	"Clar.	-Kigh.	762	*
770	7/10	7/10	2/2/0	
mation (AMK Service	) 👸	. 600	. 650	
100	The state of the s	The same of the sa	no.	The state of
	1.0	4-	4.	1,
	Drive runs down		Drive runs down	Drive runs down

# 2336 System diagnostics

	t at the analog input I connection of AWs	t of the slave AW was )	too large.	"Saliton"	
Device	AW	7/0.	7'(0).	"7' _C O.	45
Description		144	44,	77,	Ny.
Class					
Drive Behaviour	Drive runs down	, d	ŝ	) g	
Device Behaviour	"The	-Aco	29/2°	"Also	
Additional Error Inform	nation (AMK Servi	ce)	ACC.	ALI'O	
- Alle	~912c	~97g	~9 ¹ 12	~9 ¹ 00	
Error Removal		770),	7/0),	7/02	22.5

## 2337 No clock enable acknowledgement

<ul><li>Clock enable i</li><li>Consequential</li></ul>	1/2	ed by the inverter		No. S.	914 S.
Device	100	100	10	1/0/	
Description	%	100	1900	190	, i
Class	73	Ty.	24/2	747.	The same
Drive Behaviour		27	10,	24	24
Device Behaviour	System run-up	aborted			
Additional Error Infor	mation (AMK Se	rvice)	8.	J&S.	19:5.
2101	30	180		3	97.01
Error Removal	×0(5)	2010	70,	70,	-

# 2338 Magnetizing timeout

<ul> <li>No magnetizir</li> </ul>	ng possible				
Device	9	9			9
Description	Me	7.7/Lo.	"Aro.		10
Class	OLCO.	- Office		200	
Drive Behaviour	~gills	2010	~alle	~alle	
Device Behaviour	System run-up aborted	Š.	77(0),	77,0),	2.50
Additional Error Info	rmation (AMK Service)		May.	My.	"The
Error Removal	e.g. motor cables i     Lack of DC bus vo		n activating the contro	ller enable	to is

#### 2339 Ramp down error

Inverter runs inconstantly (dxi/dt) to speed n=0, ramp down monitoring can be switched off through ID32773
 Motor drifts with low speed.
 As from AW 0210 replacement by message 2331

Device

Description

Class

Drive Behaviour

Controlled braking

Device Behaviour

Additional From Information (AMK Comics)

Additional Error Information (AMK Service)

Check motor phases (U, V, W connected correctly?)
 Encoder signal connections

#### 2340 Communication on AW

Inverter-side co	ommunication error, fault		74/2	14/10		'W' (2)
Device	21/4		27,	21/4		27.
Description						
Class	7.9.5,	13.5		795,	13.5	
Drive Behaviour	Controlled braking	24		ig.	"gd"	
Device Behaviour	O ^C	Q	70,		, of '	70,
Additional Error Infor	mation (AMK Service)		1000	20	350	1020
41,00	41.00		14.C	77.50		410
Error Removal	112,		21/2,	1/2,		212.

#### 2341 Communication on AZ

AZ-side commu	nication error, fault	The same of the sa	- C(1)	~	Car.	25.
Device			- Alle		3/1/2	all life
Description	(0)	7	(0)	(4)	)	(9)
Class	720		744	"The		The.
Drive Behaviour	Controlled braking					
Device Behaviour	9	6		8	9	
Additional Error Inform	nation (AMK Service	s) %.,		Mr.	743.	
Car,	Car,	S. C.	K.	(0)	Kar,	8
Error Removal	2	1310.	NIG.		17.0.	"Ilio.

Device					
Description	" SAL	"Ith	201	201	
Class	5	OF	xol ⁽¹⁾	70%	xó
Drive Behaviour	Drive runs down	,	10/3/2	1080	2000
Device Behaviour	77/0		71/0	"4' ₁₀	24,10
Additional Error Inform	mation (AMK Service)	7	May .	Ma	20,00
		QUITT AWM	ION-ERROR, RGRF		
Error Removal	0	9	9		9



(Q)	(0)	(0)	.(6)	(4)	.<
Device	14.	The same of the sa	72/4	7774	The state of the s
Description			4		
Class	9	9		9	9
Drive Behaviour	Drive runs down	"Thou		7/5,	7F3.
Device Behaviour	Car.	Car.	_6	(b),	The state of the s
Additional Error Infor	mation (AMK Service	) \(\int_{i_0}\)	27/0		20
900	900	TIMEOUT BSÜ	190	<u> </u>	
Error Removal	120	The state of the s	The same	NA.	The state of the s

## 2344 Monitoring actual position

The encoder a resolution.	absolute position a	nd the internal actua	l position have a deviation	on of more than 0.5% of	fthe encoder
Device	7.912c	~920	7.43 _{22.}	~926	4
Description	7/0,	77,0,,	70,	770	77.6
Class	17.00	The state of the s	The state of the s	No.	20/2
Drive Behaviour	Drive runs dov	/n			
Device Behaviour	9		9	9	9
Additional Error Info	rmation (AMK Sei	vice)	50.	To.	The
W.	Miles	Deviation	shown as 0.1% (Resolu	tion absolute encoder)	-
Error Removal	375	2/10	2/1/2	2/1/2	

#### 2345 'Inverter overload error'

<ul><li>Current feedbace</li><li>100 % overload</li></ul>	ck values violate th	e I ² t calculation	Š		ò
<i>Y</i> -0	' 9 'Inverter overload	l warning'			
Device	AW KU KW RM	WALN'I DE TOUGH	WHH I GO I TO THE	WALL THE STOLE	www.c
Description					
Class	Warning	20			3,
Drive Behaviour	Controlled braking	ng	J. J. L.	20/10	
Device Behaviour	.off's	"OLLO	.010	.0100	
Additional Error Inform	nation (AMK Serv	ice)	797	797	
(3)	(2,	I ² t monitoring	j, 30 ms, 100% I _{max} IGBT	- "Y _i O _{i,}	2,5
Error Removal	<ul><li>No or wro</li><li>Unstable</li></ul>	otor parameters ong encoder cable cor , oscillating drive ncoder period number	nnected	) "U",	ý,
Device	KE	, 20x	, of Co.	,010	
Description	7020		70/20	70/20	
Class	Warning	'74' _{[O}		74 ¹ C	11/1
Drive Behaviour	Controlled braking	ng	May	202	11/4
Device Behaviour		-			
Additional Error Inform	nation (AMK Serv	ice)	S	3	9
"OUSTAKE	Info1 0	I ² t error, I _{max} I ² t error, I _{max}	for 60 s at KE for 10 s at KES	· Ollogially	
Error Removal	770	2/2	270	220	



Device	ZWR	700	100			
Description	Overload inverter -U1 (I ² t error, I _{max} for 10 s)	'9 ₂₅	1900			
Class	Error	May.	T _L			
Device Behaviour	Automatic error reset and switch back on					
Additional Error Infor	mation (AMK Service)	à à				
13%	No. X	23.				
Error Removal	Check inverter -U1	797	,			

# 2346 'Converter temperature error'

		- 19		- 14		- 19
<ul> <li>Temperature of</li> </ul>		too high				
<ul> <li>PTC resistor inf</li> </ul>	terruption					
Device	13.5			J. 9.2	5.1	a.?)
Description	20/2		201	"sight	John States	-
Class	Warning		10 ¹ 10	1000	, of 1	, vo ^{rc}
Drive Behaviour	Controlle	ed braking	8°	7025	7000	2082
Device Behaviour		7/10		77/0	h.C	71/0
Additional Error Inform	mation (AN	/IK Service	) .	17 ₁₇₀	727,	274
Error Removal	20		20	.9		, Ç
Device	KE		201	397	100	.5
Description	o l		10 N	705	10 to	2010
Class	Error		<i>(</i> **)	70/20	70%	7020
Drive Behaviour	Controlle	ed braking		71/6	7/1/2	4/2
Device Behaviour		77.7		1/1/2	11/4	11,00
Additional Error Inform	mation (AN	MK Service	)			
W. C.	Info1	0	Temperatur ITK (analog	e of cold plate -> SEE ue)	EP cell 37	30,
Error Removal	of Contract	I		,0(1)	, of the same	70,
Overtemperatu	re inverter	(n)	355	1000 E	.358	. 2000
Device	ZWR	24/2		741.	74/	24/2
Description	Overtem	perature in	verter -U1 (> 75 °	C)	N.	The state of the s
Class	Warning					
Device Behaviour	Automat	ic error rese	et and switch back	k on	N	9.X
Additional Error Inform	mation (AN	/IK Service	) %	720	190	20
.8	0,		10	10	70	.10
Error Removal	• (	Check cooli	na system	:00	700	70%

## 2347 Motor temperature error

<ul> <li>Temperature of</li> </ul>	of the motor too high	3	3	² 3,
<ul> <li>PTC resistor in</li> </ul>	nterruption			
Device	.010	, offi	"OLLO	70,
Description	200	10 dille	Page 1	10th)
Class	, 1, C)	71,0	71/0.	"H'{O.
Drive Behaviour	Controlled braking	1927	N ₂₁	774,
Device Behaviour				
Additional Error Info	rmation (AMK Service)	3	3,	ġ.
200	13/60 13/60	"After	:34	7
Error Removal	Age Age	W.	M.	200



70					
Device	N				
Description			70		-
Class	6	6		6	9
Drive Behaviour	Drive runs down	Thou.	7/6		Ks.
Device Behaviour	T. B.	C.A.	Car.	C. S.	7
Additional Error Infor	mation (AMK Service)	2/10	27/0	2/10	
92	900	Reserve	800	Sp.	
Error Removal	10	The state of the s	The same	The state of the s	Na.

#### 2349 Inverter overload warning

20		with error 2345 'Inverte e the I ² t calculation	r overload error'		
Device	AW KU RM	WALAH TILON	Whitipg.	WHAT I GO	Mary!
Description					
Class	Warning mes	sage, reaction of the dr	ive after 4 second	is	20
Drive Behaviour	27/20	- 13/e	7	20/20	2. The
Device Behaviour	OLUGO.	- Alle		Old Street	Old Co.
Additional Error Inform	nation (AMK S	ervice)	~92	~i)	20,
(Q)	160,	740),	7(0),	7(0),	25
Error Removal		wrongly connected wrong encoder cable c	connected	1/1/2	44,
"Hoigh	0.7	ble, oscillating drive g encoder period numb	er defined		

#### 2350 Device over temperature warning

<ul> <li>Device shuts d</li> </ul>	own after 4	sec. With e	error 2346	"Try.	Thu.	My.
Device			L.	14.	12.	de
Description		A	2		2	λ.
Class	Warning	message,	reaction of the drive	e after 4 seconds	€0.×	10.14
Drive Behaviour	Z.	0	100	A. C.	)	N. S. C.
Device Behaviour	10		70	10	100	2/
Additional Error Infor	mation (AN	IK Service	) 800	1900	1900	
	74		24	Ny.	74,	Tay.
Error Removal		7	ly.	17,	27,	23,
Device	KE	A	à	\	À	A
Description		150.	16.4	3	F3.x	16.
Class	A. B.	0	100	T. S.		Nagar.
Drive Behaviour	1/20,		120	770	.30	),
Device Behaviour	900		1900	190	100	, C
Additional Error Infor	mation (AN	IK Service	) " [ ] [ ]	The same	Ny.	"Un's
70	Info1	0	Temperature ITK (analogu	of cold plate -> SEEF e)	cell 37	13
Error Removal		13.9	138		197	13.5

# 2351 Motor temperature warning

Device	erature warning or PTC AW vn, drive shuts down aft	resistor interruption er 4sec with error 2347	-8 _{12,47} ;(Q),		24 ₂₁ (Q),			
-17	- 64	er 4sec with error 2347	and a		The.			
SBM is withdraw	n, drive shuts down aft	er 4sec with error 2347						
• Obivio witharaw								
Description	9	9	9	9				
Class	Warning message, reaction of the drive after 4 seconds							
Drive Behaviour	Car.	Mar.	M. S.	all in				
Device Behaviour		20	9		2/10			
Additional Error Inform	nation (AMK Service)	(0)	(4)		(4)			
414	777	"Hay	7/1/4		all			
Error Removal	4	4	4.		4.			

## 2352 Motor overload warning

The thermal over	erload limit of the	motor is reach	ed (o)	101	101
<ul> <li>Shutting down</li> </ul>	the drive with erro	or 2353 "Motor o	overload" after the time	e ID 32943 "WARNING	TIME"
Device	AZ KU	Wis	May 1	nay.	Manie
Description					
Class	Warning mess	age, reaction of	f the drive after 4 secor	nds	7.9.Z
Drive Behaviour	Controlled bra	king	.35		19/2
Device Behaviour	ó	707	, OT	70,	70%
Additional Error Infor	mation (AMK Ser	rvice)	.10 ²⁰		2000
11/2		410			71/0
Error Removal	474		47"	No.	N.

#### 2353 Motor overload error

Device	AZ				
	KU				
Description		May.	Ma.	an.	N.
Class	Error	40	4.	da	4.
Drive Behaviour	Drive run	s down		λ	A
Device Behaviour	15.4	Kg.x	Kg.	>.×	Ko.x
Additional Error Infor	mation (AM	K Service)	180	.0	(P)
Ž	Ò	70	770	710	770
Error Removal		70,0	70,00	70,0	70,0

#### 2354 Handshake brake

Device	ro th or			
Description	>.	:070	:080	792
Class	Warning	"4' _{\(\O\)}	7/10	7/10
Drive Behaviour	Drive is still active (QRF=1)	112,	27,20	No.
Device Behaviour				
Additional Error Info	rmation (AMK Service)		3)	9



# 2356 Setpoint stop active

Device	KE/KW				
	KU				
Description	The limit switches co 33910) setpoint prod			re (code 33909) and neg (low active)	ative (code
Class	Warning	Sept.	187	and the second	24
Drive Behaviour	10,	110	110	10	
Device Behaviour	70,0	100	100	120	
Additional Error Info	mation (AMK Service)	This.	24/2	74/	727
1/2		7.	27,	19,	14
Error Removal	Check limit s	witch, replace if ne	cessary		
	Check signal	I wiring, replace if r	necessarv		

# 2357 Device overload warning

Current actual	values infringe t	he overload th	reshold ID32999 d	of the I ² t calculation	" (Q.	216
<ul> <li>Switching off th</li> </ul>	ne drive with 235	8 'Device over	rload error' at 100%	% overload		
Device						
Description		<u> </u>	9	3		Ò
Class	Warning		201	:3/4	2016	
Drive Behaviour	- Ollio		Mrs.	- Allio	- Selection	
Device Behaviour	~9 ₂₂	wi.	Dr.	~glife	~97g	
Additional Error Infor	mation (AMK S	ervice)		770,	770	250
	24	72		12.	"THE	71/2
Error Removal	Motor	incorrectly cor	nnected			
6	Check	k motor param	eters 💍			
"Tho."	No or	incorrect enco	der channel conn	ected		
The state of the s	<ul> <li>Unsta</li> </ul>	ble, oscillating	drive			
"Ifo.	• Incorr	ect number of	encoder periods d	efined		

## 2358 Device overload error

<ul> <li>Current actual v</li> </ul>	alues infringe tl	ne I ² t calculation	_		
<ul> <li>100% overload</li> </ul>					
<ul> <li>Previously "235</li> </ul>	7 Device overlo	ad warning"			
Device	10	10	10	16	200
Description	No.	1200	.70%	100	.6.
Class			Edy.	74/2	24,
Drive Behaviour	Drive runs do	wn	11,	31,	27
Device Behaviour					
Additional Error Inform	nation (AMK Se	ervice)	5,	195,	18.2°
200	25/2	The same of the sa	Š.	He	" Starter
Error Removal	10T	10/1	10°C	85	20,

#### 2359 Motor overload warning

• "ID114 Overlo				"1'(g)		. H. (a)
<ul> <li>Switching off t</li> </ul>	he drive with "	2360 Motor	overload error"	at 100% overload		
Device						
Description	9		9	9		9
Class	Warning		"They	760.		"This."
Drive Behaviour	C.S.		T. Carrier	-Car.	_6	Sp.,
Device Behaviour	300	Ži _o	0	2/1/6	770	776
Additional Error Info	rmation (AMK	Service)		. D	. 35	(1)
7/4.		The same		No.	TIN.	The same
Error Removal	Recheck p		oad time motor	7	4,	7

## 2360 Motor overload error

<ul> <li>The thermal ov</li> </ul>	erload limit of the motor is reac	ched	7200	702
<ul> <li>100% overload</li> </ul>	1 24 ¹⁰			
<ul> <li>Previously "23!</li> </ul>	59 Motor overload warning"			
Device				
Description	, a,S	36		,S
Class	Error	"Ich	27	_0
Drive Behaviour	Drive runs down	XO(1)	,01	70%
Device Behaviour	3080	70 ₂₀	7020	70877
Additional Error Infor	mation (AMK Service)		, _M , ^(O)	77/2
Ar.	74	Na.	712,	7120

# 2361 EF Logic

Error Removal

• The selected E	-1 111011110111	as responde	d (ID32901, bit 11)	_8	8	
Device						
Description		11/4	14/20.	"Mar.		120
Class		4.	4.	4.		4
Drive Behaviour	Drive rur	ns down	À	À	A	
Device Behaviour	15.		Ma.x	Ma.x	160.	
Additional Error Infor	mation (AN	IK Service)	The same of the sa	Nage,	Car.	
	Info 1	0	EF logic infringed	I, detected by controller	.J.C.	30
190		1 ,000	EF logic infringed	I, detected by VECON		'92,
Error Removal	• 0	evice is not l	F compatible	My.		The same
	• H	lardware erro	or -> change device			

#### 2362 Error Commutation Motor

Device	KW				
	KWZ				
	KW-R06				
	iX/iC/iDT5/iDP7				
Description	9	. 6	9	0	
Class	Error	7.2/Co.	23/40	3/60	
Drive Behaviour	Drive runs down	20	Ollio.	M.o.	
Device Behaviour	"Controller enable" (RF)	is withdrawn		-975	- 2/2



	Info 1	10	Wrong calculation				
	1110 1	11	Wrong direction of rotation (phase sequence)				
	- 350	12	Slope is too large				
	90.	12	Info2   - Actual value of the slope measured				
		-22-27	Info3 - Parameter limit value for the maximum slope				
		13	Slope is too small				
		9					
	The same						
	The state of the s						
	2010	14	Offset is too large (absolute value)				
	Sp.		Info2 - Actual value of the offset measured				
		14/4	Info3 - Parameter limit value for the maximum offset				
-		15	Deviation is too large (absolute value)				
		9	Info2   - Actual value of the offset measured				
Mr. C.	243°		Info3 - Parameter limit value for the maximum offset				
Mig.	- Aller	16	Wrong state (internal error inside the firmware - contact AMK service)				
-2017	~81J.	17	Error when reading the list ID34174 'SWK monitoring'				
9,	0,	18	Error when updating the list ID34174 'SWK monitoring'				
-un-		20	Error occurred in alignment on homing position during SW commutation				
		21	Error occurred during wake&shake commutation				
Error Removal	(The	e motor was	ke commutation was not able to evaluate a position moved by an external torque) able to move freely(disconnect the load and check if the shaft can move				
	free		able to move freely(disconfiect the load and check if the shall can move				
	Motor current to small (ID111 'Motor nominal current IN' , ID34095 'Final value SWC'						
			of rotation (change direction of rotation by changing 2 phases of the motor)				
		- 1/4	wn during the SW commutation				
			ed to be withdrawn before SW commutation has finished				
			ues in ID34174				
	1	) · · · · · · · · · · · · · · · · · · ·					

## 2365 'Error angle observer'

<ul><li>Error angle observed</li></ul>	erver					
Device	KW-R06 iDT5 iX/i3X iC	n ⁱ	''92 	Sy News	189	19g) Hun.
Description	An error o	occurred dur	ing operation of	the observer for ser	sorless detection of	f the rotor position
Class	Error		70	10		100
Drive Behaviour	Controlle	d braking	190	190	.800	,
Device Behaviour		- 1	14.	"Tay.	"III.	Tay.
Additional Error Inform	nation (AM	K Service)		14,	24	20
29,	Info1	1	The differen ID33151.	ce between encode	r angle and observe	r angle exceeds
Error Removal	CI re	heck encode place if nece echeck para ID3315 ID3404 ID3416 ID3416	meters:	wiring,  gular deviation of end eath D' eath Q' istance' uctance'	coder-sensorless'	HOMBEHARDI WHIN

# 4.10 No. 2560 ... 2599 SERCOS / EtherCAT

# 2561 System diagnostics

Device	20,	~ 3,	Ž.	~ 0,			
Description	Failure of the master within communication phase 3 or 4						
	Master does not se	end any or just irregula	ar frames of setpoint and	actual values			
Class	Error	Error					
Drive Behaviour	Controlled braking		10	110	410		
Device Behaviour	The state of the s	21/4	No.		No.		
Additional Error Info	mation (AMK Service	<del>)</del>					
9	9	9	9	9			
Error Removal	Check wiring	Tho.,	"Mo.,	"Tro.,			

EtherCAT		.100%	,	20	1087	.50%
Device	KW-EC1 KWZ KW-R05	MANIO	White I	T ₁	M. C.	Thuy is
	A5 iX / iC / iD	Т5				
Description	EtherCAT	master doe	s not send any or just ir	regular frames of s	setpoint and actua	l values
Class	Error		Ş	The same of the sa	No.	200
Drive Behaviour	Drive runs	s down	(4)		(0)	(9)
Device Behaviour			mode "Safe Operationa alues are not taken ove		100	nn.
Additional Error Inform	mation (AMI	( Service)	À	A	3	,
USANO.	Info 1	1	Failure of frame with In "Operational" mower written or read		and a	
70/20		2 200	Failure of frame with	real time data in '	"Operational" mod	e XO
Error Removal	Check Eth	nerCAT wirir	ng N		Nico.	Wig.

Device	3/10		- C	0	Milia	~(
Description		~311c	Zallin.		NA JAN	- 31JE
Class		0,	7(0)		(0)	77,07,
Drive Behaviour	Controlled Brakir	ng	720	220		The same
Device Behaviour						
Additional Error Infor	mation (AMK Servi	ce)		9	9	
Mo	"Tho."	Mr.		To	7/3.	
Error Removal	Mar.	1000		8.,	N. S.	8



SERCOS	70p	700			.3
Device	Co.	Tr.	22,	242	The state of the s
Description	Invalid communica	tion phase		-	
Class	Error		9	9	9
Drive Behaviour	Controlled braking	. 16		No.	"This."
Device Behaviour	"Clar.	The state of the s	74.5	. <del>.</del>	Co.
Additional Error Infor	mation (AMK Service	e) ///	770	770	
D.	900	120	. 600	. Op	
Error Removal	12,	Tru.	The same	712	Mr.
		19			

<ul> <li>EtherCAT</li> </ul>	9	6	6	ò	}
Device	KW-EC1	The .	The same	"The	
	KWZ				
	KW-R05				
	A5				
Description	EtherCAT AL fault The EtherCAT master I	has requested an inv	alid status.	Mu.	nn.
Class	Error			_	
Drive Behaviour	Drive runs down	195	195	7.0%	
Device Behaviour	Controller: Setpoints a	re no longer applied	30	29,01	
Additional Error Infor	mation (AMK Service)	10/	10°C	70%	
X030	72000	7000	7000	7000	
Error Removal	Incorrect specification	from EtherCAT maste	er. W	71/2	24/2

• SERCOS	The.	"Tho."	Mr.	H.	
Device	The same of the sa	Miss		W.	
Description	Phase ramp up (sequence)	200	- SIJE	- 3/5	
Class	Error		7400	700	
Drive Behaviour	Controlled braking		741,	The same of the sa	244
Device Behaviour					
Additional Error Inform	nation (AMK Service)	9	9		1
. No	743.	Mrs.	Ms.	.7K3.	
Error Removal	Kar.	Use,	C. C.	The state of the s	

EtherCAT	7/Q ₂ , 7/Q ₂ ,	7/92,	77/02,	
Device	KE-EC1	NA.	1200	" Zula
	KWZ			
	KW-R05			
	A5			
Description	EtherCAT AL fault	My.	The same of the sa	Nation .
	The EtherCAT master has sp	pecified an incorrect state	tus sequence	
Class	Error	.75)	, J.	,
Drive Behaviour	Drive runs down	My.	"H21.	"My.
Device Behaviour	120	14	10	12
Additional Error Infor	mation (AMK Service)			
73.5	2278	10 ² 2	73.X	10.X
Error Removal	Incorrect specification from E	EtherCAT master.	7924	19. Cal.

Phase switchb	pack (not on phase 0)			300	(4)
Device	The state of the s		The state of the s	772	244
Description				-	-
Class	9	9	-	3)	9
Drive Behaviour	Controlled braking	Tho.	7/2.	The state of the s	D
Device Behaviour	( Sp. )	Co.	The state of the s	T. D.	
Additional Error Info	rmation (AMK Service)	)	7/10	2/20	770
(9)	. 300		. 000	. 00	. (8)
Error Removal	"Hyp.	•	True.	The same	N _{de} .

## 2566 System diagnostics

<ul> <li>Phase switchov</li> </ul>	er without ready	message		19th		ig,		
Device	5	KOT TO THE PERSON OF THE PERSO	85	200	101			10/
Description		702	70/25		70,50		70,	5
Class		W. Carlotte	14/10		14/10		14/10	
Drive Behaviour	Controlled bra	iking	27,		270		274	
Device Behaviour								
Additional Error Inforn	nation (AMK Se	rvice)						
2016	201	22/2		30/2		Sign.		
Error Removal	5	, o'll	×C	500	70%			,0 ¹

# 2569 System diagnostics

Memory error (	(allocating)				- 19
Device	9	9	9		9,
Description	The.	"Tho.	"Thou		Tho.
Class	TO THE STATE OF TH	200	-Car	200	20
Drive Behaviour	Controlled braking	200		alife	
Device Behaviour	190		. 60	(9)	(4)
Additional Error Infor	mation (AMK Service)		My.	"Arte.	My.
4.	4		4-	4.	4.
Error Removal	À	2	2		À

<ul> <li>Memory error (</li> </ul>	deallocating)		7000		Mar.	70%
Device	"H ₁₀ "		74/2	3	N. Carrier	"Myles
Description	Mr.		20,	274		12,
Class						
Drive Behaviour	Controlled braking	3.5		7.9.Z.		%.S.
Device Behaviour	"\$ _{GAL} .	201		Telle.	1978	
Additional Error Infor	mation (AMK Service)	Sec.	703		10/1	70,
1000	7020		Bally		7097	7020
Error Removal	74,60		Miles		4/10	21/0



<ul><li>Timeout during</li></ul>	g communication pha	ses switch-over	(AS-PL)		(0)	
Device	20	The state of the s	The same	Tales.		The state of the s
Description			-	-		
Class	9		9	9	9	
Drive Behaviour	743.	. 3	10.	The same	"Tho.	
Device Behaviour	System run-up abo	orted	,	N. S.	-Car.	
Additional Error Info	mation (AMK Servic	e) (1)	ó	76	"Ile	
900	900	. (5)	. 600		S.	
Error Removal	74	The same	No.	AL S		True.

• SERCOS	200	~	7929		799	29,0	
AT/MDT configu	ration error		XO1		Colonial Col	105	
<ul> <li>During KMD ID</li> </ul>	127 read erro	r in the datal	oase				
Device	4	127.	Ç-9	-14/13		"Inline	.41
Description		274		27,00	4	E.	21/4
Class							
Drive Behaviour		3.5,	28.5				
Device Behaviour	System run	-up aborted	22		34	- Side	
Additional Error Inform	nation (AMK	Service)	x0()		OF.	305	
10 ²⁰	Info 1	10	MDT too large	30%	7	.1020	
S 3	1100	11	Starting addr. (IDs	9) outside	MDT or (ID9+da	ta record length) >	ID10
1/1,		12	Too many MDT-II	Os (cycl.)	4	t _{tt} ,	27.2.
		13	Too many MDT-II	Os			
2		14	Too many AT-IDs		26,	20	
and the same	17	15	AT too large		20/2	201	
"OLU"	*OLUD	16	One of the IDs in			"OLUT	
	10g/Jr	17	AT contains not c	onfigurable	e IDs		
	10.	4	Info 2	)-No.		'4' ₁₀	.49
12,		18	Configuration in I config. data recor		not fit in MDT rai	nge (too many byte	s in the
2		19	One of the IDs in	the MDT is	a list parameter		\
2014	100	20	MDT contains not	t configura	ble ID	in the	
	"OLLO		Info 2	)-No.	.of 100	,010	
70/20	10917	21	Too many tempor	ary IDs	>	70,92	
<u> </u>	100	22	Error in initialisati	on of temp	orary IDs	.41.10	41
Ma		23	ID7 too small (ID7	lies befor	e the AT end)	the.	1/2,
		24	ID8 too small (ID8	3 lies befor	e the MDT end)		
23,		25	During CMD 127	error in rea	ading database	2	
N. C.	April 1	27	In phase 2 receiv	ed value II	02 is unequal in	stance value	
Error Removal	Che		or AT configuration ation list AT", "ID24			dbaltom	



					7			
• EtherCAT	May .				νn			
<ul> <li>EtherCAT confi</li> </ul>	guration erro	r 🔏	0,	710		-7 ₁₀ ,		
Device	KW-EC1 KWZ KW-R05 A5							
Description	7.0		- 6		<i>\$</i>	\$		
Class	Error		113.	~	143.,	143.,		
Drive Behaviour	EIIOI		16. July 1		U 1			
Device Behaviour	J		0.	200		30.	200	
Additional Error Inforr	nation (AMK	(Sorvice)				<u> </u>		
- Additional Error Illion	Info 1	5	"ID15 Tolog	ram type para	motor" + 7		- 124	
10	1110 1	6			is described in	correctly	20	
	6			or (AMK Servi		Sorrectly		
76° X	16.4	10	MDT too lar		30,7	-743-X		
30	197	11	277		e MDT or (ID9+	data record leng	th) > ID10	
T)		12		IDT-IDs (cycl.)	01 (100)	data record leng	u1) - 10 10	
		13	Too many N				100	
"H47.		14	Too many A				12/4/1	
-1/2		15	AT too large		-19.		-19	
2		16			a list paramete	ır 🗎		
- 100 S.	160	17		not configural		7/2°.		
	Sig.	''	Info 2	ID-No.	310 120			
	5		0)					
		18	Configuration config. data		s not fit in MDT	range (too many	bytes in the	
742		19	One of the IDs in the MDT is a list parameter					
		20	MDT contains not configurable ID					
	6		Info 2	ID-No.	9	6		
Ho.,	Tho.,	21	Too many to	emporary IDs	1/2	The		
₹ [*]	100	22		alisation of ten	nporary IDs	ALCON .		
20	The maste	r has specifi	ied an inappro	poiate MDT or	AT configuration	on all		
"A4;Q		27	EtherCAT re	egister "DC Cy		" is not equal to	'ID2 SERCOS	
40		29			lailbox is faulty		200	
		30			out-Sync manag	er is faulty		
- 10.8°	10.0	31			n-Sync manage			
20/2	200	32			ynchronisation			
70	9	79	Software er		<u>, , , , , , , , , , , , , , , , , , , </u>	10 10 10 10	30	
72.0		81	Software er			700	70,50	
		410	Info 2	0	Module en	or		
		200	11110 2	ID-No.		D not available	42,	
		00	Coffusion	ı	I omiter to i	D Hot available		
	120	82	Software er					
	The same		Info 2	0	Module en	20		
	300		3 ¹	ID-No.	Pointer to I	D not available		
Error Removal	Ch ("IE • Info Ad sw (ma • Info Ch	016 Configu 0 1 = 27: apt "ID1 NC itch off / on, I aster normal 0 1 = 29 3: eck whether	For AT configuration list AT", because time and an arestart master lly adapted ID12: The acorrect XML many output description	"ID24 Configur d "ID2 SERCO and ID2 durin device descri	ation list MDT")	tup)		



SERCOS	(9)		(0)	(40)	(4)	
Device	1	The state of the s		77/4	72,	777
Description	Memory	cell error (syste	m error)		-	
Class		9	9		9	9
Drive Behaviour		The same	Thom		No.	M. O.
Device Behaviour	System r	un-up aborted	C. Pr.	- K	,	C. C.
Additional Error Inform	nation (AM	IK Service)	7/10	200	170	,
Ego.	Info 1	21, 22, 23, 33, 61	Software error	74100	"M'[Q]	in.
Error Removal	Software	error => Trans	fer information to	AMK Service	72,	14,

EtherCAT	- 1	<del>7</del> 2		100		30°
Device	KW-EC1			- 100	- A	
Device	KWZ					
	KW-R05					
	A5					
Description		memory error	or special error	77		14/10
Class	Error	memory error	or special error			
Drive Behaviour	LIIOI	- 0-		- 6		- 0
Device Behaviour	Drive runs	down	40.	- A10	19	10.
Additional Error Infor	70.					
Additional Error Illion	Info 1	1	Frar in mamanura	augus A		
<u> </u>	INIO I	•	Error in memory re			
25	24.	10	Module message			
17,		21, 22, 23	EtherCAT software		4,	27,
		33	EtherCAT software	e error		
		40	ID reading error			26,
alghe .	101	41	Signal address rea	ading error	Elg.	
*OLL	x offi	42	EtherCAT initialisa	ation error	*01/10	
100 m	200	43	Device type unkno	own	292	
(0)	7/0.	44	"Clear error" was r	not successful	750	43
77/2		45	"Clear error" softw	are error	77.20	71/20
		46	Error in "Real Time	e Data Manager" enti	ry	
9		47	AT DMA transfer e		•	9
Ho.,	1/2	48	MDT DMA transfer	r error	, d	<del>[0.</del> ]
Mar.	" Car,	50	Error during Ether	CAT slave system ini	tialisation	
alle.	7/20.	61	EtherCAT software			
Error Removal	EtherCAT	software erro	NO.Y	ation to AMK-Service	- 35°	4

• SERCOS	(B)	12.7		12.3	12.7	
Device	765.	Wag .	2	(a)	Nation .	
Description	SERCOS-Asic memory test	0,	710		710	
Class	900		1900		190	
Drive Behaviour	t and the second		The same	72		24,
Device Behaviour	System run-up aborted		13,	27		2,
Additional Error Inform	nation (AMK Service)					
79.5°	73%	13.8		13.R	13.8	
Error Removal	2827	20		A. S.	3/2	



• EtherCAT	Viga.	T. S.	190	200	
Device	9	70,	700	70,	7100
Description	Error during n	nemory test in the Ethe	rCAT Chip (The memory to	est is carried out withou	it EtherCAT
Class	- 40	200	May 1	The same of the sa	20,
Drive Behaviour	Drive runs do	wn			
Device Behaviour	23,	20	20	20	
Additional Error Inform	mation (AMK Se	ervice)	27/1/2	T. A.	
. Co.	200	.6	, office	- K.	7.65
Error Removal	Replace KU-F	EC1, KW-EC1.	7872 C	79 ₁₂	12 July 1

Device	Mr.				
Description	(gr)	Carlo.	N. S.	.6	\$1.
Class	50	\$0.	776	77/0	No.
Drive Behaviour	920		190	92,	190
Device Behaviour	System run-up aborte	ed	The.	The.	The state of the s
Additional Error Infor	mation (AMK Service)		12	A.	2.
A	2	À		2	À
Error Removal	Mary.	NO.X	N.	>×	12.7

Device		21/4	21/11	300	27.00		
Description	Internal memory initialization During initialization error in reading database						
Class	Error		The The	"Tho.			
Drive Behaviour	100		Co.	-Car			
Device Behaviour	System ru	un-up aborted	776	"IZE,	200		
Additional Error Inform	mation (AM	K Service)	. 8	, B	. 600		
The state of the s	Info 1	122	During initialization error in re	ading database	727.24		
		2	Too many master instances				
9		3	More than one slave instance	4			
ogho.	THO.	4	Error in writing database ("ID34150 Configuration list B	C")			
	9	5	Error in deletion "ID34142 No	de list"			
No.		6	Error in writing "ID34142 Node	e list"	No.		
"UI'		7.3	Same card addresses configu	red	"THE		
21/2		8	Installation synchronization fu	nction failed	17/2		
		9	Installation copying function b	efore PGT failed			
7.9°E		10	Installation copying function a	fter PGT failed			
17/	Sigle.	11	ID2 unequal for SC-master an	d SC-slave			
×	of S	12	Error cause of additional initia		xÓ		
Error Removal	Check bu	ıs parameteriza	ation	10 th	1030		



<ul> <li>EtherCAT</li> </ul>	ZŠ.	3	757	7. J.	. Aleks	
Device	KW-R05		100	10	10,	
	A5					
Description	EtherCA	T memory error	r or special erro	L William	"My	"(4);
Class		2/2		17,	2/2	2/2
Drive Behaviour						
Device Behaviour	EtherCA	T slave does no	ot start		3'5,	3.5
Additional Error Info	mation (AM	K Service)	200	Pile	15/1	
,or	Info 1	13	Error initialisin	ng ETC SoE service	100	
Device	KW-R05		7030	.1077	1080	
7,	Info 1	14	BUS type not I	known – ETC and VA	RAN are possible. SEEP	value
Error Removal			•			

Device	90,					
Description	4	Z4,.	The same	11	7.	The state of
Class	24		20	10		2,
Drive Behaviour						
Device Behaviour	System run-up aborte	ed 📈		13%	10%	
Additional Error Inform	nation (AMK Service)	Naga.		Vales.	N. S.	
10	10,	10	. 10	0,	10	
Error Removal	30°	700	70,0		70,0	

# 2578 System diagnostics

Device	and the same of th				
Description	"Ollo	, of C	, of C	, of C	7
Class	120 m	N. J.	12 July 1	May .	
Drive Behaviour	7 6.	0,	71,02	760.	43
Device Behaviour	System run-up aborted		N _U	77.	77.77
Additional Error Infor	mation (AMK Service)				
9	9	9	_ <	3)	9
Error Removal	"The	Tho	The s		Tho

<ul> <li>Error on initial</li> </ul>	ization of the	SERCOS o	option card			
Device		4.	,	4.	2,	2,
Description		2	2			À
Class		13.Y	NO.X		127	10%
Drive Behaviour	180	)	Alley.		age.	Name of the last o
Device Behaviour	System ru	ın-up abort	ed	10		10
Additional Error Info	rmation (AMI	K Service)	200	.300		.25°
,	Info 1	1	Error on card a	access	77	7,
77,		2	Inadmissible v	alue IRQ	24,	27,
2.27		3	Inadmissible b than 4 Mbit)	aud rate (only ca	rds with HP Tran	ns/Rec can transfer more
Maidh	A. Carl	4		card type, no AMI ter/slave setting '		option card type does no ode"
- Silve	-31/6	5	Wrong revision	n of the option ca	rd (CPLD versior	1) 📈
(2)	(0)	6	Option card typ	oe and redundan	cy incompatible	(C)
Error Removal	Check ins	stallation of	the option card	7214	740	7474

SERCOS master	J. 2			47.7.	477		477
Device		The state of the s	24	27.	-144		- La
Description	Option ca	ard type invalid	or option card	defective			
Class	9		0	ò	1	9	
Drive Behaviour	Tho.		"This."	"This.		"Tho."	
Device Behaviour	System ru	un-up aborted	Car.	-Kiga		Car.	
Additional Error Inform	mation (AM	K Service)		2/10		300	270
100	Info 1	1 0	Memory SER	CON ASIC Serco	sDriverInit()		
n.		2	Version SER	CON ASIC Serco	sDriverInit( )		The same
4.		3	Reset error S	ERCON ASIC Se	ercosDriverInit()	)	4.
A		4	Memory SER	CON ASIC Serco	sDriverInit()	A	
10,4	160.4	10	Too many cyc	clic data (ScmFill	Mov( ))	163.4	
ALC: NO.	100	11	ID for cyclic to	elegram not avail	able (ScmFillMo	ov( ))	
_3	0	12	Too many cyc	clic parameters (	ScmFillMov())	žo,	-36
190		13	ID incorrect le	ength (ScmFillMo	v( ))		.800
" And		49	Driver not ins	talled SercosDriv	verInit( )		"Tyle
10,		257	SERCOS-III F	PGA code wrong	1		14
		258	SERCOS-III r	no master FPGA			
73%	10.S	260	SERCOS-III F	PGA version is n	ot supported	13.5	
20	200	536	Invalid SERC	OS cycle time (ID	) 2)	197	
	o ·	1029		nemory allocation		,OT	25
Error Removal	Check bu	ıs parameteriz		. 10 ²⁰	100	>	1000

Device	agree of					
Description	000		-off's	Offic	-01/10	. 6
Class		~?	170	~9 ₂₆	74/200	7812E
Drive Behaviour		77,0		7/0,	770	77,0
Device Behaviour	System r	un-up abort	ted	17,00	277	The state of the s
Additional Error Infor	mation (AM	IK Service)				
9	Info 1	1	Memory ass	gnment	9	
Mo.	"The	2	Too many sla	aves	"Thomas and a second	
60	7/10	3	Too many SI	ERCOS rings	The same	
		4	Too many sla	aves	allic	allie
Error Removal	Check bu	us paramete	erization	(8)	'Q'.	(2)



SERCOS maste  Pavisa	3 2. 34.	100	24/2, Thy,
Device		- 1/2°	
Description			
Class		<u>, )</u>	
Drive Behaviour	- A	γ	
Device Behaviour		-up aborted	
Additional Error Inforr	nation (AMK	Service)	, all the same and
57	, O'	1	"ID34036 CCB File" is empty
The same of the sa	7.	2	No slaves in "ID34036 CCB File"
		3	Too many slaves in "ID34036 CCB File"
- 6		4	Entry with invalid data format in "ID34036 CCB File"
160.	16	5	Invalid format of "ID34036 CCB File"
A STORY	Say.	10	Too many entries in the MDT configuration
~?i _O ,	TIO.	11	Axis in MDT master configuration does not exist
100	900	12	Axis in MDT slave configuration does not exist
44	1	13	Too many entries in the AT configuration
24,		14	Axis in AT master configuration does not exist
		15	Axis in AT slave configuration does not exist
70.X	N.	16	Too many entries in the broadcast configuration
Naga,	1919	17	Axis in broadcast configuration is not broadcast axis
100	120	18	Node address for broadcast configuration does not exist
60°	100	19	Telegram type configuration permitted only for slave
3	4	20	Node address for telegram type configuration does not exist
3/2		21	Configuration SERCOS control permitted only for master
		22	Node address for SERCOS control configuration does not exist
		23	Configuration SERCOS status permitted only for master
all a	10%	24	Node address for SERCOS status configuration does not exist
:05	*0C	25	Unknown entry in CCB list ID34036
10 to	10810	28	Node address not in the ring
9	N. CO.	29	Number of nodes in all ring lists is not equal to number of nodes in node
May 1		25/1/2	list
		30	ID (element) of the Broadcast configuration not available
9		31	ID (element) of the AT configuration not available
	at.	0	Info 2 Node address
	West.	32	ID (element) of the MDT configuration not available
	- SINC	02	Info 2 Node address
10,	190°	00	
	24	33	"ID34036 CCB-File" cannot be read
7,		34	wrong attribute
A		35	"ID34054 CCB-Filename" for slave configured
	14	36	MDT-konfiguration of a non valid node (8000 h)
199	480	37	AT-konfiguration of a non valid node (8000 h)
	30),	38	Error during writing ID34054 CCB-filename
, C ²	900,	41	XML configuration file: End tag missing
	4	43	XML configuration file: File has to start with start tag
H ₁		44	XML configuration file: Start tag name missing
		45	XML configuration file: End tag name missing
(2,000)		47	XML configuration file: Start tag missing
27/4	1/20	48	XML configuration file: Invalid token
.off'	, of 10°	49	XML configuration file: Invalid tag
Wally.	Major.	50	XML configuration file: Empty configuration file
2,	(0),	52	XML configuration file: Configuration file without usable content



44°	Till.	53	XML configuration file: Tag name communication missing
XC	5	54	XML configuration file: Tag name ring missing
:073		55	XML configuration file: Attribute RingConfigurationID missing
77/0		56	XML configuration file: Tag name RingGeneral missing
77,7		57	XML configuration file: Tag name MasterAdress missing
		58	XML configuration file: Tag name MDTLengths missing
~ \$\)	23	59	XML configuration file: Tag name TelegrammLength missing
:3 ¹	is the	60	XML configuration file: Tag name ATLength missing
, C	300	61	XML configuration file: Tag name Node missing
7.97c		62	XML configuration file: Attribute NodeAddress missing
770		63	XML configuration file: Tag name SVCAT missing
The same of the sa		64	XML configuration file: Tag name SVCMDT missing
		65	XML configuration file: Tag name Connection missing
6	. 6	66	XML configuration file: Attribute ConnectionID missing
1/2	The	67	XML configuration file: Attribute tpcyc missing
	100	68	XML configuration file: Attribute TelegrammType missing
		69	XML configuration file: Attribute TelegrammNumber missing
(0)		70	XML configuration file: Attribute Offset missing
The state of the s		71	XML configuration file: Tag Producer missing
-		72	XML configuration file: Tag PLCVariable missing
8	9	73	XML configuration file: Attribute Length missing
743.	Thou.	74	XML configuration file: Attribute Address missing
800	Co.,	75	XML configuration file: Attribute Name missing
1/20	3	76	XML configuration file: Attribute Offset missing
190		77 💍	XML configuration file: Tag Consumer missing
My.		78	XML configuration file: Attribute RingConfigurationID missing
A.		79	XML configuration file: Error during writing the RingConfigurationID
2		80	XML configuration file: Error during writing the cycle time (ID2)
10%	150.7	81	XML configuration file: Attribute sync missing for the PLC variable
92	Carlo.	82	XML configuration file: Telegram Length cannot be divided by 4
16		83	XML configuration file: Offset cannot be divided by 4
190		84	XML configuration file: PLC address range exceeded
"Play.		85	XML configuration file: Too many cross-communication relations
27		86	XML configuration file: Invalid length MDT
		87	XML configuration file: Invalid length AT
Error Removal	• Ch		nfiguration OS-III Master XML configuration file -File", "ID1205 SML-File"), Info2 = instance



Device	4	-7/4	-	70,
Description				- A - A - A
Class				
Drive Behaviour	N.	<u> </u>	543	² 6,
Device Behaviour	System run	-up aborted	- 10 m	
Additional Error Inform				
200	Info 1	1	Ring is ope	en Fiberbreak
	27	474	Info 2	Phase
10		2		en MST late
		9	Info 2	Phase
	N. Carlot	3		en MST miss
	William.		Info 2	Phase
	79 L	4		cy: master isolated
¥	7 (2),	5	-	clock signal
The state of the s	4.	9		egram received P1 (AT wrong address)
			Info 3	Address
		13		non valid telegram P1 (AT data unequal 1)
	N. S.	13	Info 3	Address
	- 10/1	15		nge cannot be performed
	1000	13	Info 2	Phase
	4 12	h	<u> </u>	Phase
		35	Timeout	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			Info 2	Phase
	14	40	- N	d phase information received
Tage,	New York		Info 2	Phase
710,	70,	42		ssible to switch from phase 1 into 0
	" Pro	43	no drive re	
Hz.	27	. 1524	Info 3	Address
d.		80	Timeout	4.
		81		ant found in phase 0
	The	82	Configurat	ion file in the slave does not match the file in the master
	May,		Info 2	Address



- Marie	314	522	Slave send	s even though a phase exchan	ge has been ini	tiated
		28	Info 2	Phase	10°C	10
		1000	Info 3	Address	OP.	7032
"Hy.		523	Slave does	send after phase exchange	2	"Play"
		27,	Info 2	Phase		24
			Info 3	Address		
Mark.	153.4	524	Timeout, no	stable slave detection in maste	er war	
(a)	Car.	525	Invalid ATs	in phase 0	Kar.	
11/10		527	Ring/line in	phase 0 not closed	11 ₁₀	77.0
900		529	No particip	ant found in phase 0	500	'92,
My.		530	A specified node is missing			My.
		27	Info 2	Phase		40
	8		Info 3	Address	A	
W.	Tho.	532	Ring/line in	phase 0 not closed	"They	
(A)	Car.	536	Invalid SEF	RCOS cycle time (ID2)	Car,	
7/10		545	No link at o	utput in phase 0	720.	Nic.
Error Removal		neck fibre opti neck slaves	c conductors		90	"HH'GD"



Device			
Description			
Class		9	6 6 6
Drive Behaviour	7,4	3.,	Mo., Mo.,
Device Behaviour	System rur	n-up aborted	King King
Additional Error Infor	mation (AMK	Service)	- 11 ₁₀ - 11 ₁₀
90,	Info 1	6	"ID5 Minimal feedback acquisition time" from slave is not available for time slot calculation
<i>u</i> ,		20	"ID3 Drive transmission reaction time" from slave is not available for time slot calculation
20/KB.D.	16.	25	"ID88 Recovery time receive-receive" from slave is not available for time slot calculation
Mic	7000	29	"ID2 SERCOS cycle time" is too short
90gine	90 gran	31	"ID90 Command value copytime" from slave is not available for time slot calculation
ni	73	44	"ID4 Transmit/receive time" from slave is not available for time slot calculation
27		45	"ID96 Slave identifier (SKLN)" from slave is not available for time slot calculation
OLUGIAN.	all aid	46	"ID87 Recovery time transmit-transmit" from slave is not available for time slot calculation
	- SILLO	80	Timeout
37	(0)	533	Invalid MDT length in configuration file
24/	1.	534	Invalid AT length in configuration file
4		536	Invalid "ID2 SERCOS cycle time"
8		537	Invalid "ID1 NC cycle time"
W.	1/2	538	Internal error
The state of the s	Car.	539	Internal error
NJIO.	770.	540	Internal error
30,	S. C.	541	Internal error
25	74	543	Too much cyclic data in SERCOS cycle
do		544	Too many telegrams in SERCOS cycle

Device		7/4		T.	7/4,	27/4,	
Description		- Plan	-17		-1/2	-1/2	
Class	Warning					À	
Orive Behaviour	110111111111111111111111111111111111111		160	16,		12,	
Device Behaviour	N. S. S.		Child.	7.30		50	
Additional Error Info	rmation (AM	K Service)	)``	"Ito,	"Ific.		
1900	Info 1	1 🕅	Protocol error	: HS_AT!=HS_MD	T + BUSY = 1	(20)	
		They.	Info 3	Node address	- 1 _{1,1}	an'i	
		2	Error on initia	lization of service ch	annel		
	6	3	Router error	9		9	
	7K3.		Info 2	Error of the router		"A6-2	
	The same		Info 3	Error location		5-1	
	200	4	Data access a	attribute unknown	792	~d	
		7/00	Info 3	Node address		7.10	
		33	Busy Timeout		77/2	7/2	
		33	Info 2	ID			
	9		Info 3	Node address		-3	
	TO VITA	34	Handshake tii	Ne"		72,	
		34	Info 2	ID	200	<i>y</i>	
	5.	1090	Info 3	Node address	1000	70%	
		00	Timeout				
		80	- 27	Lip	-474	77,	
			Info 2 Info 3	ID Node address			
	10.0	0.1		Node address		-100)	
	Carly.	81	Startup error	1		101 L	
	10 m		Info 3	Node address			
		9	Error service (	channel acc. SERC ess)	OS e.g. data tran	smission to long (In	
		The state of the s	Info 3	Node address	Mala.	Thy and	
		> 0x1000	Error service	channel acc. SERC	OS e.g. data tran	smission to long	
	20		Info 3	Node address		~ \$\dot{5}	
	della		142	n ROUTER from sla	/e	30/4	
	×0	×C	Info 3	Node address	70%	<i>y</i>	
	>-	514	Service change	nel already assigne	1 300	207	

Device	6				
Description	>-	7032	70 th )	7292	20,00
Class	Warning	77/0		"41 ₁₀	
Drive Behaviour	4	120	11/2	7/2,	27.2
Device Behaviour					
Additional Error Info	mation (AMK S	ervice)	20	, §	Q)
"Are	"Ales	Ę	rror message according to	SERCOS	9
Error Removal	300	200		W.	35



Device	444						The same
Description							
Class	Warning	9	à	3	9,	9	
Drive Behaviour	7	0.0	"They.		Mrs.	"Tho."	
Device Behaviour	- Clar.		-C.F.		Con.	-Car.	
Additional Error Inforn	nation (AMK	Service)	7/10	200		7/10	
	Info 1	36	Command til	meout		900	
		247	Info 2	ID M	7474		144
		4	Info 3	Node address			
Error Removal			2	<i>\</i>	8	9	

# 2589 System diagnostics

SERCOS mast	ter has detected ring	interruption	1900	Spo	5,
Device	13,	Thu.	The same of the sa	Thu.	The state of the s
Description		14	1/2	10	14
Class	Warning			Δ.	
Drive Behaviour	10.7	10%		10%	10.7
Device Behaviour	1919	Naga.	, ci	20	NICO.
Additional Error Infor	mation (AMK Servic	e) (()	10	100	
900	900	70,00	.200	1900	.6.
Error Removal	Check fibre     Check slav		Mary	n _n n,	May

# 2590 System diagnostics

SERCOS maste	er has detec	ted AT fail	lure	- Ollow	- Allia	
Device	133		100 m	1000	200	
Description	7/02.		710	"4' _{CO.}	'Y' _(Q)	45
Class	Warning		1740	21/20,	72,	7120
Drive Behaviour						
Device Behaviour		9		g)	ĝ.	9
Additional Error Inform	nation (AM	K Service	) 4	The same	26	Fr.
The same of the sa	Info 1	XX	xx = Node	address of the slave	W. S.	
Error Removal	Check sla	aves	Zalle.	- Allie	~gillo	

<ul> <li>SERCOS mast</li> </ul>	ter software error	2	2		A
Device	160.1	163.4	FOX		16.7
Description	Carlo.	N. S.	Vago.	No.	2)
Class	Warning	120	1,00		
Drive Behaviour	g,	1900	.000	1900	6.
Device Behaviour	44.	27.	My.	7121.	May.
Additional Error Infor	mation (AMK Service)		21,	21,	24
	_	Contents SERC	ON Register 17		
Error Removal	10.X	10.5	73.5		13.X

• SERCOS IIIas	ter has detected MST failure	<del></del>			
Device	The state of the s		May.	"May	The state of the s
Description					
Class	Warning	9	9		9,
Drive Behaviour	The.	7/2.	"May		"The.
Device Behaviour	- C. S	1000	-US.	.6	200
Additional Error Infor	mation (AMK Service)			"III	"Ille
100	100		. 60°	. 85	. 450
Error Removal	Check fibre optic cable		71/4.	N.	May.

## 2593 System diagnostics

Device	(0)				
Description		7000	702	70/20	725
Class	Warning	14/10	74/10	74/100	14/2
Drive Behaviour	72	4	274	274,	27,0
Device Behaviour					
Additional Error Info	rmation (AMK Se	rvice)	3.0	, <u>(</u> )	3.0
THE STATE OF THE S	THE STATE OF THE S	Add	ditional driver information	P.	
Error Removal	3	- 0/1	: 50	-0/1/	76.

# 2594 System diagnostics

Device	6				
Description	"Tho.	"The	Mrs.	.3	to.
Class	Warning	-C. C.	The same of the sa	-Car	
Drive Behaviour	lic.	allie	NING.	alife	NIL.
Device Behaviour		100	(9)	(4)	.00
Additional Error Info	rmation (AMK Serv	rice)	"Hay	"ALA"	"May
4.	4		4,	4.	4,
Error Removal	2	2	3		2

• SERCOS		700	Ÿ	702	70,50		70,50
Device		"His		" My Los	14/2		" Sylves
Description	Error SE	RCOS synch	nronization	Ma	21,		20,
Class	Warning						
Drive Behaviour				2.8.2	2		
Device Behaviour	J. C.		4. Taller	The same		"it I'm	
Additional Error Infor	mation (AN	IK Service)	, of 1		3.0	200	70%
2000	Info 1	1 🔊	SERCO	S master synchronizat	ion timeout		70,000
		2	SERCO	S synchronization lost			71/0
Error Removal		The same	•	412,	Ma		772,



<ul> <li>EtherCAT</li> </ul>	1919		No.	, di	C)	Valed.
Device	KW-EC1 KWZ KW-R05 A5	nun	'ilg ₃ 'ing	WWW Gligging.	Wald Color	HALL HALL
Description	Error Ether	CAT synchro	nisation			
Class	Error	x.0'	20		20,	20
Drive Behaviour	10%		201	3	G/L	17/1
Device Behaviour	100		ode "Safe Opera e no longer appl		· S	JION .
Additional Error Inforn	nation (AMK	Service)				
y van	Info 1	2	∘ While o		ached fe operational" to "C outed clock was not	
raitematyke."	"Saltomaty"	3	○ In the s	s checked and in 2	the state of the syn subsequent cycles	
(0)	(0).	4	Toggle bit in c	ontrol word is inco	rrect	
Error Removal	Check sett	ngs for distrib	outed clock in th	e master	27/4	71/2

Device	all the				
Description	190	. 60	. 600	190	
Class	Warning	The same	12/20.	Res.	The state of the s
Drive Behaviour		11.	4.	1.	4
Device Behaviour	2		À	À	A
Additional Error Info	mation (AMK Ser	vice)	y, K	).X	₽×
Nago.	Info 1	Command	ID (A)	Carlo.	
	110	Info 2	Node address	Tro.	
	900	Info 3	Acknowledgment	'95,	

Device	10,	(A)					
Description	92.0		. 10°	.700		. 10°	
Class	Warning	2	27.	Thy.		Th's	1/2
Drive Behaviour		17		27	14		27
Device Behaviour							
Additional Error Infor	mation (AMK	Service)	J&2.		795	7.8	3,
27	Info 1	1	Error status class	s 1	201	-314	
105	305	2	Warning status c	lass 2		, of .	
Error Removal	73°	•	70 th	70,00		1000	

# 2598 System diagnostics Warning

<ul><li>(excessive rec</li><li>OWG disconne</li></ul>			) i <i>j</i>			
Device			2	2		<u> </u>
Description	150.1		10,1	16 X	13.	<
Class	Warning		California (California California	Nage,	130	
Drive Behaviour	6		10,	710	110	1/0
Device Behaviour		.700		.800	1200	180
Additional Error Infor	mation (AM	K Service)		THI.	747	Thy.
22,	Bad sign	al quality or	the OWG rece	iver	-	27,
	Info 1	1	Master			
79/2	18.5.	2	Slave	795	18.	5,
² 99,	20	3	Master ver	ify ring	20	
	Ó	4	Slave verif	fy ring	100	10
2007	Disconne	ection OWG	receiver (redur	ndant)	70%	700,
141	Info 1	10	Main ring	error during bootup	41,00	.41.00
20,		11	Verify ring	error during bootup	7.	274
		14	Main ring	error during operation		
13.0	13.0		Info 2	Node (256 = master)		5,
732	Carlot	15	Verify ring	error during operation	180	
3	io.		Info 2	Node (256 = master)	-7 <u>1</u> 0,	
"141'ID.		527		detected during the bus boo BUS mode attribut")	ting time	
Error Removal		14		14, 14		14,

## 4.11 No. 2600 ... 2609 Profibus (PB)

# 2600 System diagnostics • Error memory space

Device		10	1/2	4	7*	de.		
Description			2	2	2			
Class	10.8		10/3	100	16.3			
Drive Behaviour	190		No.	190	200			
Device Behaviour	System r	un-up aborte	d	10	110	110		
Additional Error Infor	mation (AM	K Service)		0,0	190	190		
" My		24.	The.		741,	24,		
Error Removal		20	21,	4	7.	27		
Memory error	A		8	À	8			
Device	AMKAM	AC control u	ınits A4 / A5	7.K2.,	Thou,			
Description	Profibus	Profibus error						
Class	Error							
Drive Behaviour		90	55.	200	(9)	(1)		
Device Behaviour	System r	un-up aborte	d: Profibus does not s	start	Mu.	Ay.		
Additional Error Infor	mation (AM	K Service)	10	7	7	20		
2	Info1	1	Software error - m	nemory	2			
	163.5	10	Software error - m	essage sending	10.7			
	Sig.	20	A5: Profibus optio	n card A-SPB missi	ng			
Error Removal	) -	nfo1 = 20: che	eck device	"alifor"	Palifor.	~91/10)		



<ul> <li>Adapter cannot</li> </ul>	be initialized		(C)	7(0)	7/02	35.
Device		244		744	The same of the sa	The state of the s
Description					-	
Class		9	9	-	3	9
Drive Behaviour	14.	300	Thou	Mo.		Thomas
Device Behaviour	System rur	n-up aborted	100	- Carlo	.6	(g.,
Additional Error Inform	nation (AMK	Service)	720	2/16	776	
900	Info 1	1	Module number	not permitted (>3)	. 60	
27		2	SPC3 buffer size	not possible	Tru.	un.
4		3	Initialization erro	r (e.g. module addre	ss jumper plugged	in)
Δ.		4	It's not possible t	o read initial parame	eters.	<i>λ</i>
10.4	14	5	AFP because of	an active option card	not available	163.4
N. S.	100	6	Number of synch	ronous data module	es is not allowed.	(3)
Error Removal	7/0,		70,	7/10,	-76	

#### 2602 System diagnostics

Cable is interr	upted (reaction acco	ording to "ID 34027 BU	S failure characteri	stics")		
Device	3.0	- A.O.				
Description	201	22/2	X	The same of the sa	and a	
Class	Warning	xol ⁽¹⁾	,of	70%		
Drive Behaviour	70/20	2017	20/20	70/2		
Device Behaviour		.419	. M. C	77/2	11/42	
Additional Error Infor	mation (AMK Servi	ce)	774,	200	272	
Error Removal	25	23		, <u>(</u> )	201	

#### 2603 System diagnostics

<ul> <li>Data exchange characteristics"</li> </ul>		g. after watchdog	error; reaction acc	ording to "ID34027 BI	US failure
Device		22	4,0	44.0	No.
Description					
Class	Warning		19.5	795.	19.P
Drive Behaviour	200	.80	3	20	367
Device Behaviour	101	10/1		10/1	10/1
Additional Error Inform	nation (AMK Serv	ice)	705	×	70,00
100	4	4	" My los	.44	" Tyle
Error Removal	·	20,	The state of the s	27,	No.

Device	~3UL					
Description	7/0),		77(0),	77(0),	77(Q),	-25
Class	Warning	12	4.	72/2	744	" Tayla
Drive Behaviour						
Device Behaviour		9	6		9	9
Additional Error Info	rmation (AMI	( Service)	Mari	"The		K.
Mar.	Info 1	1	Input handshake		-Us.	-
The same	alle	2	Output handsha	ke	2/20	
Error Removal	950	•	.00	, dD	195	

PROFIBUS Init	ialization/ E	rror state		(6)	500	7/0/2	(0)	,
Device		The state of the s		722		7212	TH2	
Description								
Class	Warning		6		6		9	
Drive Behaviour	743.		"They		Thou		The.	
Device Behaviour	Car.		They		-C.S.,	-67		-<
Additional Error Infor	mation (AM	K Service)	\$6		N. C.	200		Willow.
, do	Info 1	16	PROFIBUS	S Contro	ller not in "Offl	ine" state	(8)	>
		17	Node addr	ess erro	or	Tru.	No.	
		18	Input/outpu	ut length	n error 2	4.	4,	
Error Removal		•	<i>A</i>		9		3	
PROFIBUS erri	or bus confi	guration	Thou		Thou		The same	
Device	AMKAM	AC control ι	ınits A4 / A5		W.S.			- 3
Description	9		6		2/10	No.	/	Will.
Class	Error	(1)		0),	3	(%)	(4)	7
Drive Behaviour		11/4		7474		722	They	
Device Behaviour	System r	un-up aborte	d: Profibus do	es not s	tart	-32		
Additional Error Infor	mation (AM	K Service)	6		6		9	
710.	Info1	17	Slave addr	ess err	or W		The .	
	Car,	24	Profibus co	Profibus configuration: wrong length				
	6	3	Info2	1	ID1204 'XML	file' / P.S.2 - lengt	th too small	"Ile.
		(900		.0	Info3 Len	gth of ID Header	, j	
		1444		2	Master length too large		740	
		11.		2		gth Master	2	
	6				<u> </u>	guriviasier		
	" steppen	35	Master con Wrong I/O		on - s or not suppo	rted		
	O CO	2	Info2		I/O Module Id	entifier		10%
	,-	2002	Info3	χ	I/O Module O	ffset in Master CF	G Indication	300
Error Pomoval		hock bus co	oficuration	- 77		77,5	7/2	

Device	.0					
Description	50	1000	Car.	83	20.	P. B.
Class	Warning	41,0	4.0	4/0.		410
Drive Behaviour	Tr.		712,	213,		Na.
Device Behaviour						
Additional Error Infor	mation (AMK Ser	vice)		- S	- Q	
The	"The	Alex.		Ar.	"Afro	
Error Removal	-00	-50,0	_6	0	-0.0	-8



Device	20				
Description			-		
Class	Warning		9	9,	9
Drive Behaviour	"Ho.		(A)	Mr.	Mar
Device Behaviour	-C.5-1	"Kigo."		Co.	The same
Additional Error Infor	mation (AMK Ser	vice)	770	7	770
30	900	190	(3)	(8)	50
Error Removal	140	The same	. Lifting		The state of the s

Device	105						
Description	7000		700	70%		7020	
Class	Warning	14		14/10		'Aj'	.42
Drive Behaviour		27%		22,	12	4	270
Device Behaviour							
Additional Error Inform	nation (AMK	Service)		2			.2.0
77/2	Info 1	1	Buffer config	uration too small	10/m	, S	1
	*Ollica	2	Input/output	data size wrongly c	onfigured ("ID	34025 BUS r	node"/Inst1)
	Palit	3	Wrong / not s	supported PROFIdr	ive standard to	elegram	
	4 (O)	5	KW software	older than 2004/52	2	'4' ₁₀	142
		8 4	ID 2<> 0.5 m	s by PROFIdrive Te	elegram 105	12	27/4
		21 - 28	ID READ erro	or during initializati	on		
		31 - 34	Reading erro	or during initialization	on 🐧		~ S)
	.dr	38	ID READ erro	or ("ID 32840 Diagr	nostic List")		K.
	OLC IN	41	ID WRITE en	ror ("ID34023 BUS	address paric	cipant")	-
	" SILL	42	ID WRITE en	ror ("ID32944 SYAI	DR")	79/10	
	(a)	148 - 255	Software erro	or		7/9,	
Error Removal		144		74/4	52	1/2	74,2



Device	AMKAM.	AC control u	nits A4 / A5				
Description	>	.70%		'90 ₀₀	.700		
Class	Error	The same		Thy.	This.		
Drive Behaviour		21,0		27,	27		
Device Behaviour	System r	un-up aborte	d: Profibus does	not start			
Additional Error Info	ormation (AM	K Service)	73.5.	10.5	82,		
94	Info 1	9	DP cycle ID2	faulty, e. g. less than 1 ms			
	40,		Info2	DP cycle ID2 / µs	16		
		50	Number of ir	put bytes in slave greater than number o	f input bytes in		
		The same	Info2	Input size slave	24,		
			Info3	Input size master			
	"ighto 'S.	51	Number of o master	utput bytes in slave greater than number	of output bytes in		
	KO L	3	Info2	Output size slave	8		
	8		Info3	Output size master	72,00		
		52	Not enough	Not enough input modules in master			
		270	Info2	Number of input modules in slave	The same of the sa		
			Info3	Number of input modules in maste	er		
	143.5	53	Not enough	output modules in master	5°*		
	Carles.		Info2	Number of output modules in slave	e		
	TO.	.3	Info3	Number of output modules in mas	ter		
		54	Input module	in slave not equal to input module in ma	aster		
		744.	Info2	Module offset / bytes	747		
		55	Output modu	le in slave not equal to output module in	Master		
	9		Info2	Module offset / bytes	Š,		
	"Afor.	56		t module in slave does not match input m	nodule in master		
	*Q		Info2	Module offset / bytes			
	Par a	57		ut module in slave does not match outpu	t module in maste		
		21 10	Info2		t module in master		
Error Removal		heck bus cor		Module offset / bytes	- 44		



•	PROFIBUS Warning – wrong par	rameter initialization
_	Pead error ID 173	

Device		9	9	9	9	
Description		Fo.,	The	The same	Mar	
Class	Warning		My,	The same	Mar.	
Drive Behaviour	alic		77.0	"Ile	770	
Device Behaviour	and the second		. 100	. 000	. 000	
Additional Error Infor	mation (AM	( Service)	71 Th.	the same of the sa	an.	The state of
1.	Info 1	1	Wrong initialized "ID	32799 Configuration s	tandard peripherie"	4.
<i>A</i>		2	Wrong initialized "ID	34026 BUS mode attri	but"	
Nox		3	Wrong initialized "ID	32926 AMK homing cy	ycle parameter"	
Agr.	700	4	Wrong initialized "ID	32855 Output port 2"	Na.	
"Ito,	7/0.	5	Wrong initialized "ID	32863v Port 2 bit 7"	7/0.	
900	900	6	Wrong initialized "ID	32968 Input port 2"	1900	4
	749	7	Wrong initialized "ID	32973 Port 2 bit 4"	My.	Tay.
10		8	Wrong initialized "ID	32976 Port 2 bit 7"	10	24.
		20	Global Control Sync	Loss		
73.5		173	Error by reading "ID1	173 Marker position A"	13.5	
300	.350	)	2929	790	79.00	

### 4.12 No. 2620 ... 2629 ARCNET (ARC)

### 2620 System diagnostics

**Error Removal** 

VA.					
<ul> <li>Subscriber not</li> </ul>	connected with	network	.10	.10	
Device	700	100	. 200	.200	
Description	4.	Thy.	74/	74/	24,
Class	Warning	No.	27	20,00	27
Drive Behaviour					
Device Behaviour	10	5, 195,	195,	7.9.5.	
Additional Error Inform	mation (AMK S	Service)	"SIA"	317	
KOL.	10°C	100	10°C	*OL.	
Error Removal	7000	7032	70,32	7020	

Network error	_ <	9	9		9	6	
Device	"The		"This		The s	"The	
Description	200		N. C.	36	0	all'o	
Class	Warning		0	71/10		-11/10	
Drive Behaviour	(0)	(4)		(0)		(3)	- 3
Device Behaviour	7.	- 25		7274	77/4		744
Additional Error Inform	mation (AMK S	Service)					
9	4	9	6		9	9	
Error Removal	. No.		The .		They want	7/3.	

2622	Systen	n diagn	ostics
------	--------	---------	--------

<ul> <li>Transfer error/t</li> </ul>	transmission error		. (0)	(4)	(0)
<ul> <li>Transmission p</li> </ul>	process timeout				
Device					
Description	9	9		9	9
Class	Warning	76.		2	The
Drive Behaviour	Co.	- C.	-C. 20.		C. C. C.
Device Behaviour		720	2/2/0	N. C.	7/10
Additional Error Infor	mation (AMK Service	)	. 600	. 3	(1)
My.	May.		True.	2720.	Na.
Error Removal	172	•	2,	2,	42,

Adapter is const	tantly reconfigured	100	100	101
Device	.2000	7025	'X2 ₂₂	700
Description	'4 ₁ '.	14/100	'4 ₁ '.	14/10
Class	Warning	20,	20,	2/4
Drive Behaviour				
Device Behaviour	38	3.9	78'S,	
Additional Error Inforn	nation (AMK Service)	20/4	24	_0
Z. XC	x61	x0[1]	, of 1	70%
Error Removal	Check BUS connection	.10575		

### 2624 System diagnostics

ARCNET controller error

Device				
Description	.68	(A)	(Q)	. (3)
Class	'm'	14/4,	"Arthu	"May
Drive Behaviour		4.	4.	4
Device Behaviour	System run-up aborted	<i>A</i>	À	
Additional Error Infor	mation (AMK Service)	Kan	160.4	
(g)	(B)	180	180	
Error Removal	(Q) (XQ)	10,	10,	. 100

### 2625 System diagnostics

<ul> <li>ARCNET teleg</li> </ul>	ram too long				
Device		J.3.2°	'9'S,	. a.S.	
Description	3.54	igh.	2016	24	
Class	Controlled braking			,of()	70%
Drive Behaviour	4080	ibs.	89	1020	70%
Device Behaviour	77/70	41.00	A.	S	This.
Additional Error Inform	mation (AMK Service)	44	M.	4	1720
Error Removal	20	20,	2	20	

Node ID is	s already present	'9 ₀ ,	(Apr.	(1)
Device	W	74/4.	-414.	Thu,



Description	Vaga,	N. S.	720	Vylo,	
Class	10	10	10	10	
Drive Behaviour	My .	Do	1000	100	
Device Behaviour	System run-up aborted	120	"H'	74/2	-141,
Additional Error Info	rmation (AMK Service)	T	27,	27,0	21,2
Error Removal	Recheck parameter:  • ID34023 BUS a	ddress participant	21/40.12·		<i>&gt;</i>

•	Init	state	arrar

- Error in node ID check
- No adapter present

<ul> <li>RAM memory to</li> </ul>	oo small for ARCNET				
Device		W.	all'io		U.S.
Description	- 3/10	-3/10	- 3/10	100	
Class	S.	(4)	(0)	(0)	
Drive Behaviour	747,		"Ing.	The state of the s	71/4
Device Behaviour	System run-up aborted				
Additional Error Inforn	nation (AMK Service)	9		9	9
Mo.	-74°.	The state of	J.	9.	743.,
Error Removal	The state of the s	Car.	Kar,		Car,

#### 4.13 No. 2640 ... 2649 LON

### 2640 LON failure

<ul> <li>Interruption of</li> </ul>	the master → slave	e connection			
<ul> <li>Recognition o</li> </ul>	nly by heartbeat fai	lure			
<ul> <li>Ramp down a</li> </ul>	fter BUS failure				
Device	. 800	1900	. 90°	(R)	. 3
Description	Er.	1200	12/20.	774,	Ma.
Class	Warning	4.	4.	4.	4.
Drive Behaviour	À	2	À	À	
Device Behaviour	163.4	Ma.x	KO.X	160.x	
Additional Error Info	rmation (AMK Serv	vice)	100	N. S.	
77/0,	176	"A ₁₀ "	170	1/10	
Error Removal	900	100	.200	100	

#### 2641 LON timeout IN

<ul><li>Device does no</li><li>T1 = low word a</li><li>See LON netwo</li></ul>	ifter variable nvi	_QhsTime	"Ollistake	"QU _{QL}	140.D
Device	1030	200	:071	:030	
Description	760		71/0	7/0	34.5
Class	Warning	27,00	7/1,	1/1,	24g
Drive Behaviour					
Device Behaviour	20			Ŝ.	20
Additional Error Inform	nation (AMK Se	rvice)	25/4		Pro-
Service Control of the Control of th	- Sellio		- Ollio	- Miles	
Error Removal	220		22,	72	

2642	IO	N	time	Out	$\mathbf{O}$	IΤ
ZU4Z	டப	ıw		ou	v	, ,

<ul> <li>Device does n</li> </ul>	ot output status bloc	k within T1	. 65	(4)	(0)
<ul> <li>T1 = low word</li> </ul>	after variable nvi_C	hs Time			
<ul> <li>See LON netw</li> </ul>	ork variables for mo	ore details			
Device	9	9	6		9
Description	"Tr3".	"The."	The same		"The."
Class	Warning	"(Light)	The state of the s	-C	20.
Drive Behaviour	700		allic	NIN	
Device Behaviour		9	.00	. 800	. 300
Additional Error Info	rmation (AMK Serv	ice)	17/40.	2/4,	The same
4.	7		4.	4.	4,

### 2643 LON timeout appl.

Error Removal

<ul> <li>The application</li> </ul>	lasts (Q_COI	DE=1) longer th	nan T2					
<ul> <li>T2= high word a</li> </ul>	after variable i	nvi_QhsTime						
<ul> <li>See LON netwo</li> </ul>	ork variables f	or more details						
Device								
Description	13.5		38,5			J-95	5,	
Class	Warning	-4	'AL	.8	36	Sight.		
Drive Behaviour	3	101		1000		*OTT		701
Device Behaviour		.1081		70%		7030		30,0
Additional Error Inform	nation (AMK	Service)		. A. C.	3	89	7410	
1714		414	,	7744	274		274	
Error Removal								

# 2644 System diagnostics

<ul> <li>Device reports</li> </ul>	within 2 s in th	ne ramp up	,0		200	1/2			
<ul> <li>Handshake no</li> </ul>	ot with code "56	678"							
Device		1424		1444		Thu.		"Alle	
Description		4		4.		4.		4.	
Class	Warning		4		<i>A</i>		A		
Drive Behaviour	15.		16.7		163.		150.		
Device Behaviour	Ser.		May .		Van.		Mary.	2	
Additional Error Infor	mation (AMK	Service)	30,		20,	77	0,		
1900		1900		'920		1900		1900	
Error Removal		The same	•	My.		"Tay.		Thy.	

C 0.07	F 1, C.	L 11G		. I'D'	"C"
<ul> <li>DPRAM writing</li> </ul>	error	The	Zi.	12	~
Device	S	, of	70,	70/0	70x
Description		70/3/2		2000	2080
Class	Warning	77/10	77/2		71/0
Drive Behaviour		2744	212,	200	272
Device Behaviour					
Additional Error Inform	mation (AMK	(Service)	S)	20	20
The same	7.7/c	19/2	20	12	7
Error Removal	300			2000	770



### 4.14 No. 2660 ... 2669 INTERBUS (IB)

### 2660 System diagnostics

Device					
Description	THE STATE OF THE S	27		"I'A"	"I'M"
Class	xoll.	xoll.	χĊ		, of C
Drive Behaviour	Controlled braking	1030	2080	601	,
Device Behaviour	71/2	77/20	11/0	.2/0	7/42
Additional Error Infor	mation (AMK Service)	Le	74	No.	Na.
Error Removal	20				

### 2661 System diagnostics

<ul> <li>Unknown bus n</li> </ul>	node entry in "ID3402	5 BUS mode"	. 72,0	<u> </u>	. 3
Device	24	The same of the sa	12/12	124	" May
Description		4-	4.	4	4.
Class	8	9		8	2
Drive Behaviour	Controlled braking	Kar		160.	16.4
Device Behaviour	Tay.	My.	4	Car.	The state of the s
Additional Error Inform	nation (AMK Service	e) "I _{IO} "	7/10	.3	10.
900	900	1900	'92,	190	
Error Removal	17.	The same of the sa	77/41.	The same	The state of the s

### 2663 System diagnostics

Interbus is inac	tive		Σ	4	- Are
Device	, of 1		, or	×C	75
Description	10 July 20 Jul	10/10	:000	2000	
Class	Warning	"41 ₁₀	'7'.'O.		7/42
Drive Behaviour		272,	N _L	77,0	et.
Device Behaviour					
Additional Error Inform	mation (AMK Serv	rice)	· 5	23,	25
"The	1/25	194	X	2	19/10
Error Removal	Cable is defective	ve or not connected	with master		E. C.

<ul> <li>Interbus reset</li> </ul>	4.		4.	4.	4.
Device	9	8	9		9
Description	Mo.	Mr.	Ma.		D-7
Class	Warning	Total Contract of the Contract	The state of the s	The state of the s	
Drive Behaviour	"ALC."	"Ago.	"710"	"JIC.	
Device Behaviour	900	190,	900	. No.	
Additional Error Info	mation (AMK Service)	My.	The state of the s	7144.	Tr.
14	1/2		10	14	12
Error Removal	2		2		2

	alid data cycles detect	.cu		347	41/19
Device	127		42	44	
Description					
Class	Warning	6		6	9
Drive Behaviour	The.	"Thou		Mrs.	The
Device Behaviour	100°	The same	-4/6		U.S.
Additional Error Infor	mation (AMK Service	<b>e</b> )			in the same of the
. 600	(8)	3	. 60	. 300	. 300
Error Removal	Thu.	•	77/40.	NA.	The state of the s

#### 4.15 No. 2680 ... 2699 CAN

### 2680 System diagnostics

<ul> <li>CAN AFP erro</li> </ul>	r during initia	alization		9,	190		190
Device		"The	'ala,	,-	"The		ara.
Description		4,	4		4.		4,
Class	- 2		2	2		9	
Drive Behaviour	Controlle	ed braking	Ma.	No.		150.	
Device Behaviour	System r	un-up aborte	d_	The same		May,	
Additional Error Info	mation (AM	K Service)	10,	NIC.	.3	Ö.	Š
'92°	Info 1	1 ,800	Device does not	t answer during i	nitialization lo	nger as 2 se	ec.
744.		2	AFP timeout sta	tus	774		The same
10		3 - 23	Error by reading	ID s	de.		20
Error Removal		•					

### 2681 System diagnostics

<ul> <li>Object Diction</li> </ul>	ary error	3030		7007	>	1080		300	9
Device		7/10		7/1/0		"41'6		71/0	
Description		272		414		1/2,		414	
Class	Warning								
Drive Behaviour	20		28		28		25		
Device Behaviour	STATE OF THE STATE		19 m		JOHN THE		30/4		
Additional Error Info	rmation (AMK	(Service)	10	,	000		OLL .		, of 1
~3)	200	1000		75h		730		~3i	200
Error Removal		73,00		750,		770		77,0	

Too much Red	eive PDOs ar	nd SDOs configured	Ma.	14	9.x
Device	Car.	Mar.	Mar.	The same	26
Description	50	"Zio.	Mio.	27/10	"Jic.
Class		1900	1900	90,	(90,
Drive Behaviour		My.	"My.	Ny.	No.
Device Behaviour	System ru	n-up aborted	14	10	20
Additional Error Infor	mation (AMK	(Service)	2		2
12 X	163.4	10,3	10,		3.X
Error Removal	Calca	Valle,	N. S.	Naga.	



Device	200				
Description					
Class	Warning	6	è	<i>S</i>	9
Drive Behaviour	Controlled braking	. No.,	Mrs.	. 7t'	0.
Device Behaviour	-Circ.	"Clar,	-War.	-Car	
Additional Error Info	mation (AMK Service)	7/20	7/10	7/10	
8	S. C.	180	. B	. Ob	
Error Removal	14,	The same of the sa	Ma.	77/4.	- 174

### 2684 System diagnostics

<ul> <li>Communication</li> </ul>	error		Sign.	29/9/	2	<i>id</i> 1
Device	40°C		10/1	10	101	
Description	702		7000	7000	70/20	
Class	Warning	.4	100	"MILES	41/2	12
Drive Behaviour		27/4	22		Re.	2/4
Device Behaviour						
Additional Error Inform	nation (AMK	Service)			2	
Tolke .	Info 1	1	Transmit buffer full	30/2		ight.
, of "	x0("	2	RTR to RPDO	xol ¹	70%	-
70/20	7030	3	Unknown NMT com	mand	2020	
, o	10	4	Invalid message type	e		4.
N _{II}		5 4	Exit from OPERATIO	NAL state	Tr.	712
		6	CAN controller not re	eady to send new	message	
Error Removal		9	- 3	ŝ	· ·	`\$ _,

<ul><li>Communication</li><li>Hardware syn</li></ul>		rror				
Device		4,		47	4,	47
Description		A	7	à		A
Class	Warning	ŷ.X	Marie	Max.	X.	).×
Drive Behaviour	100		No.	Val.	700	
Device Behaviour	"710,		"ZiO.	170	1/10	
Additional Error Info	rmation (AMK	Service)	'9 ₀ ,	'920	900	
2	Info 1	11	CAN controller in	n BUSOF state, check	cables	The state of
		2	Life guarding tin	neout, communication	interrupted	10
		3	AMK hardware s	synchronisation not po	ssible	2
	N	4	AMK hardware s	synchronisation lost	M2	5.X
	Said.	5	HW synchroniza	tion wrong cycle time	May .	
	100	10	Basic device syr	nchronisation signal ti	neout	
	925	11	Basic device syr	nchronisation timeout	. Sp	
	14/1	12	Basic device syr	nchronisation signal lo	st	27
		13	Basic device syr	nchronisation lost	1/2	27
		14	External synchro	onisation signal lost		
		15	External synchro	onisation lost	v.5	3.5
	"Files	16	External synchro	onisation signal timeo	ut	
	KOTT	17	External synchro	onisation timeout	, ₁ 0°	
	10gh	20	Error in time sys	tem (250 µs level)	7090	



Device	KE		19/4	Viga.		VII.	
Description	3	. 3	Ò.	10		10	10
Class		100		700		OP TO THE PERSON NAMED IN COLUMN TO	100
Drive Behaviour		14/12		Miles	-12/1	2	14/2
Device Behaviour		200	3	200	27,0		27,
Additional Error Inform	nation (AMK	Service)					
7.9%	Info1	1	Interruption A	ACC	'Ç.	28.5	
	"ight	2	Life guarding	g timeout		224	
Error Removal	3	8	or.	100		10°	₃ 0
Device	AMKAMA	C control u	nits A4 / A5	200	λ	S ²	700
Description	Cor	nmunicatio	n error	Alexander and a second	12/1	5	41.00
474,			chronisation erro	or			
Class	Error						
Drive Behaviour			- 2	0	<del>.</del> 9		
Device Behaviour	System run	-up aborted	d: Profibus does	not start		20/10	
Additional Error Inform		<u> </u>	or	101010111		×0°C°	xo ^o
70/20	Info1	1 200	CAN controll	er BUS off state	2	977	2002
		2		g time-out, comm	unication dist	rurbed	- 11/O
		3		re synchronisati			2/4
		4		re synchronisati	•		
12/40 g	20	5		time of HW synch		25	
	agle.	10	VIV.	synchronisation		out	
	300	11		synchronisation		, of i	, oʻ
		13		synchronisation		Salar Sa	1000
		14		chronisation sigr		š	71/0
		15	External syn	chronisation lost	May		27.12
		16		chronisation sigr			
	9	17		chronisation time		9	
	"Afron	20	-100	system (250 µs l		-dho	
Error Removal	Info1 = 1 Info1 = 4	<ul><li>Ch attr</li><li>Ch</li><li>Ch</li><li>Wh equ</li><li>Ch</li></ul>	ibute' in all devi eck ID 2 'SERC' eck cabling and ien using the AN uipped eck configuratio	OS cycle time' in I terminator MK adaptor AP-C on of hardware sy	all devices	e resistors R1 a	and R2 must be
HAMA INTERNIT	Info1 = 11	On • NM I. e On	T 'OPERATION . the switching to	f hardware syncl AL' received but o 'OPERATIONA ter devices, this	basic device L' must be de	synchronisatio	n not finished.



<ul><li>AFP error</li></ul>	(g)		(4)	(4)		190	3
Device	14.	5	12,00	T _{TL}	2	120	The state of the s
Description							
Class	Warning	9	9		9	9	
Drive Behaviour		Fo.	"Thou		Mr.	Mrs.	
Device Behaviour	Car.	1	-C.		The state of the s	T. S.	
Additional Error Infor	mation (AMI	( Service)	2/2/20	,Š	6	7/10	
9	Info 1	1	No HS reading	g AFP output d	ata	. 95°	
, di	120	2	No HS writing	AFP input data	a a	720	are.
4,		3	Both 1 and 2	4.	4.		4,
Error Removal		A	À		2	2	

# 2687 System diagnostics

Device		4	112,	21/4	274,		274
Description							
Class			200			13.0	
Drive Behaviour	ă	3	27	ă	The same of the sa	"AL	
Device Behaviour	System r	un-up abor	ted	, of C		x011	
Additional Error Inform	nation (AN	IK Service	) 2000	1080	300	9	
Ç9	Info 1	0	Hardware sw	itch Node address i	nvalid		71,
N.		1 4	"ID34023 BU	S address participa	nt": Node address i	nvalid	2720
		2	"ID34024 BU	S transmit rate": Bau	ud Rate invalid		
Error Removal		Recheck pa • ID34	cipant no. at rotary or rameters: 023 BUS address p 024 BUS transmit r	participant	40.5	JIO NATAKO PI	

• "ID34025 Bus i	mode":AFP bit not valid	2	À		A
<ul> <li>AFP Error by re</li> </ul>	eading ID s				
Device	The state of the s	Nago.	N. S.	N. S.	
Description	"ZO,	"710,	170	170	
Class	800	900	90,	190	- 20
Drive Behaviour	24. The		The state of the s	71.41.	My.
Device Behaviour	System run-up aborted		14	1,	1,
Additional Error Infor	mation (AMK Service)	2	2		2
10%	75'3	Mar.	10%	10	X
Error Removal	Recheck parameter:  • ID34025 BUS m	ode (	Welligh,	"Follogies.	

<ul> <li>Errors on config</li> </ul>	guring						
Device		742		72/4		Thu.	The state of the s
Description		- 20		- 12	-1		- 5
Class	9		9		6	9	
Drive Behaviour	143.		"Th3".		The .		
Device Behaviour	System ru	ın-up aborted	Car.		The state of the s	The state of the s	
Additional Error Infor	mation (AM	K Service)		, Š	, o	Nic.	all control
NAMA (Q)	Info 1	1, 2 11, 12 35, 92	Internal erro	or 100	4	HAIAT COLOR	Marie Co
2		13, 20, 81	Transmission	on channe	el busy	2	
70×	12.7	82	Bus error (E		,	16.1	
(A)	Carlo.	91	Client SDO	missing ir	n master object	ist	
	0,	170	Info 2	Subso	criber address c	f the slave node	770
'92,		93	Not succes	sful SDO t	ransmission	1900	(200
77.0		101	Resource p	roblem (D	CF too large)	The state of the s	Tr.,
		2,	Info 2	0	save to CCB	7	
	8		8	1	Load from CC	В	
Tho.	Thou	102	Resource p	roblem (m	nemory)	"The	
(6)	100	103	Faulty PDC			4.9	
,Š	6	112, 113			leap initializatio	n)	775
, (B)		114, 115	Resource p		-		(90,
1979		116	DCF not av	ailable		The same of the sa	7474
4		117	Error on rea	ading DCF			4
6	9	118	Invalid DCF	element	(incorrect index	or size)	
They	Mo.,	119	Resource p	roblem (m	nemory)	They	
(gr.)	Car.	120	Internal erro	or	Car,	The state of the s	
,Š	9	121 - 145	Error on rea	ading ID	Ö.	aldio.	200
		135	Error on wr	iting from I	D 34023	(B)	(3)
Thu.		151 - 194	Error on rea	ading ID		21/4.	The state of the s
- Lo		211			ation not succe	ssful	4.
	A	212	No bus noc	le availabl	е		
10x	12.	218	EndOfFile r	mark wron	g 🎺 🗎	May.	
Error Removal	190		100 m		Nage.	N. J.C.	

Device						
Description	20		2.5	28	20	
Class	27/10		THE STATE OF THE S	27/4	S. C. A.	
Drive Behaviour	600	_v o	Co.	,0 ⁽¹⁾	,010	, o
Device Behaviour	System ru	ın-up aborted		Page .	29D	Nagar.
Additional Error Infor	mation (AMI	( Service)		"4' _{CO.}	"1'(0).	410.
7/1/1		No.	Node ID of	Slave node	77,	212,
			Info 2	Index		
	20		Info 3	Sub index	20	
Error Removal	27/2		No.	37/10	197	



(0)	70,		
Device	Devices wi	th ACC-Bus of	connection
Description	Bus overlo	ad	
Class	Warning	9	9 9
Drive Behaviour	7,4	9.,	"Mo", "Mo",
Device Behaviour	-C.25.		"Ug,"
Additional Error Info	rmation (AMK	Service)	
N.		13, 20, 43, 48 - 50, 53,65	SEND QUEUE FULL
		33, 38	Heap overflow
20,		45 - 47	AFP handshake failed
T. Jan	12%	57, 58	Heap overflow
"Olfic	*OLU	62	CAN Controller not ready to send a message
Page 1	20317	80	Data exchange utilisation ration too high
0,	"4" _(O)	82	Extraction from Send Queue late
No.	7.	90	Extraction from Receive Queue late
9		91	Send: Too many TPDOs Receive: Sync RPDO received too late
The.	.34	92	Receive: Buffer for Asynchronous Receive PDOs full
all in	The state of the s	93	Sync TPDO cant't be sent; too many PDOs in network
ALTICO TOTAL	SILLO	201	Receive queue full
9,	(0)	202	Last CAN message lost
3	24	203	Previous CAN message lost
-		210	SDO Receive channel fulll
6		211	SDO Transmission channel full
Mo.,	7,4	212	Too many SDO sessions started
Kin,	Car.	214	DSDO multiple started
Nico.	2760	214	DSDO Error
Error Removal	Sw Ma Sla • Che • Syr	ster: sender o ve: receiver o eck if "ID2 SE	of signal  RCOS cycle time" is the same cycle time for all nodes  Oos (with synchronous mapping variables) from external device must be

<ul> <li>Software warn</li> </ul>	ing	770	7760	25	2),	7/07
Device		The same	7770	240		The state of the s
Description			-			
Class	Warning		9	9	9	
Drive Behaviour	Mrs.		740.	The.	"Ha.	
Device Behaviour	The same of the sa		74 _(gr)	Car.	T. S.	3
Additional Error Infor	mation (AMK	Service)	io. To		77/0	7/10
. Open	Info 1	1 8	DCF not available		25,	. 35
The state of the s		2	Oscilloscope PDO not a	vailable		The same
4.		3	CAN BUS not active	4-		4.
<i>A</i>		31, 36	Invalid NMT command	received	À	
12,	16.7	32, 37	Exit from OPERATIONA	L state	163.4	
(4)	100	101	ID write not possible	(1) (1)	100	,
	ŶO.	103	Read "ERROR FIFO" no	ot possible	760	7/0
1900		104	Mapping conflict (copy	direction)	20,0	1900
The state of the s		105	Hardware synchronizat	ion configuration e	rror	"Tay.
Error Removal		24	14,	74		24

# 2693 System diagnostics

Slave Node St	tate error	xolling.	*OLLO	*OLL	, o'l'
Device	>	2020	70/202	200	20,000
Description	a	4.10	7.00		77/0
Class	Warning	774	3	the state of the s	274
Drive Behaviour					
Device Behaviour	20	28	20	, (s)	
Additional Error Info	rmation (AMK Serv	vice)	29/2	7.7kg	
Lo.	Info 1	Node ID of slav	e node	-Ollie	28.2
Error Removal	26	2000	~9 ₂₆	~9 <u>77</u>	~40T

Device	Por	Kg.x		12×	163.4	
Description	N. S. C.	16/20		N. S.	N. S.	,
Class	Warning	"Jio.		20,	"Jio	
Drive Behaviour		1900	'950		'9200	'92,
Device Behaviour	in.	17.	My.		74.	Ay.
Additional Error Info	mation (AMK Ser	vice)	14	10		10
2	Info 1	Node ID o	f slave noc	de	2	
	15.	Info 2	1	Timeout	163.3	
	Sign.	180	2	Toggle Bit error	The state of the s	,
Error Removal	(g)	10		10.	1/20	1/0



Emergency rece	eived		Tol.	(9)		(Q)		1,30
Device		222	100	774,		77/4,	22	24.
Description								
Class	Warning	9	9		9		9	
Drive Behaviour		Fo.	16.		Thomas		The.	
Device Behaviour	200		70 P.		Car.	35.	(S.,	
Additional Error Inforn	nation (AMK	(Service)	all lie	210	,	NI CO		
S. C.	Info 1		Node ID of slave	e node		. 30		. (6
Error Removal		- 25	4.	The state of the s		7/2,	2	The.

### 2696 System diagnostics

DSDO Router 6	error	N. S.	799	Ž.	ig.
Device	10	10	101	101	
Description	7000	No.	70/20	70/20	2
Class	Warning	The same of the sa	14/100	4/100	The state of
Drive Behaviour		21,	27,	274	2/4
Device Behaviour					
Additional Error Inform	mation (AMK Se	ervice)	5,	·95,	
201	Info 1	Router error	r code		d.
Error Removal	*0//	x0[1]	*0[[	2010	

# 2697 System diagnostics

<ul> <li>Mandatory sla</li> </ul>	ve node mis	sing				-4	
Device		9	9		9		9
Description	10	The		₩.,			0.
Class	Warning		The same	-Cio		The same of the sa	
Drive Behaviour	27/10				, allie	alife	
Device Behaviour	(9)		(g)		(4)	(9)	3
Additional Error Info	rmation (AM	K Service)	20.	_	444	The same	7474
4-	Info 1	4	Node ID of sla	ve no	de	4.	4
6		6	Info 2	1	Network configu	uration	9
The same	100	143. z	Mr.	2	Single node cor	nfiguration	3-
Error Removal	-4/0		-6/2		-4,0	-4,0	

Device								_
Description	7.0%		788		12.9		12.0	
Class	Warning		180		282		Sept.	
Drive Behaviour	100		10		100	10		
Device Behaviour	400		.75°	.200	,	. No.		
Additional Error Infor	mation (AMK	(Service)	47.	"Millian		74/2		747
1/2	Info 1	1/2	Node ID of s	lave node		The		27
			Info 2	Index				
	N	¹³ 'S,	Info 3	Sub Index	10.0		12.5	
Error Removal	187		- A	<u> </u>	190		100	

<ul> <li>System error</li> </ul>					
Device		TILL.	742,	Thu,	They
Description			-12	- 27	
Class	9		9	9	9
Drive Behaviour	Controlle	d braking	740.	Ho.	Ø.,
Device Behaviour	System r	un-up aborted	Kg, Kg	, Carl	
Additional Error Infor	mation (AM	K Service)	1760	7/10	7/10
(S)	Info 1	4	RAM-check error	· 92,	
The state of the s		10	Watchdog or time level err	or	The same
4		12	User stack error	4,	4,
A		13	System stack overflow	Α	À
12.	150.	14	System stack underflow	Ko.x	9×
(A)	No.	15	Controller error	Nation of the same	,
Š	0	20	Fast function overflow	1/10,	210
'900		30	Initialization - Software erro	or 🚜 💮	1900
The state of the s		31	Initialization - error while d	ata read	774
19.		32	Initialization - too much FC	Tinstances	11,
		33	Initialization - no FCT insta	nce	2
13.8	10.8	34	Initialization - error while d	ata write "ID30 Softwareve	rsion"
910	200	35	Initialization - invalid bus u	se "ID34143 Usage port"	
. 8	Ó.,	36	Error while clock initializati	on	100
7000		37	FCT initialization – invalid	CPLD version (2 FCT)	.30%
747		38	FCT initialization – writing	error Routing "ID32944 SY	/ADR"
27,		39	FCT initialization – more th	an one synchronization so	ource
Error Removal		•	•	·	



### 4.16 No. 2720 ... 2739 EtherCAT

### 2721 System diagnostics

Davida	AS-PL15		400			
Device	AS-PL15 AS-Cxx-1					
	A5-CXX-1					
Description				The state of the s	The state of the s	-142
Class	Error					
Drive Behaviour		9	. 6			9
Device Behaviour	Controller:	Switch back	to status SAFE	-OPERATIONAL	:42	
Additional Error Inform	mation (AMK	Service)	VIC.S.	ACC.	N. C.	
MILE .	Info 1	1	Broadcast AL	status not received	~gl/c	
27	7 (0),	2	Broadcast wo	orking counter error	77(0),	
nn.	4	3	Slave offline	May.	"The	- NA
			Info 4	Slave address		
23,		4	Slave offline	, , , , ,		Ö,
	134	OP.	Info 4	Slave address	17/10	<u> </u>
.or	70%	5	Slave not in "	Operational" status	70/10	
	709/2		Info 2	Status	1000	
	4/0	42.	Info 4	Slave address	'91'(3)	14.
The state of the s		10	No Ethernet I	ink available	Ag.	10
		20	DL status cha			_
	50	·5,	Info 2	Current status	18	, <del>Q</del>
	" Sight		Info 4	Previous status		
::::::::::::::::::::::::::::::::::::::	1091 <u>110</u> 1.	30	EtherCAT inp	out (AMK devices X86) an	d EtherCAT output (AN	1K devices
Error Removal	• Che	eck slave wit	h the address fi	rom "Info 4"		. 2
	Replace slave					

<ul><li>Cable breakage</li><li>Error exchangin</li><li>Synchronisation</li></ul>	g real-time o	lata	la _{lio.}	Natural Co.	nan	0,	mu;
Device	AS-PL15 AS-Cxx-1 A5	3.5	Waldy.	ġ.	lighty by	Tatika di	
Description	"III"		200	1700			
Class	Error		100	(db)		00,	
Drive Behaviour		. 4	In.	"Affer	214		" and an
Device Behaviour	Controller:	Switch bac	ck to status SAF	E-OPERATIONAL	4.		4,
Additional Error Inform	nation (AMK	Service)		À	À	À	
160.7	Info 1	91	Real-time to	elegram not receive	ed 🔑 📉	160.4	
Vage,	100	2	Real-time to	elegram working co	ounter error	N. S.	
	SINO,		Info 2	Working count	er	1/10	
39	(0)	10	Error in syn	chronisation with h	iost	(5)	
Error Removal	• Ch	eck Ethern	et cable and re	place if necessary	72/4,		72/4

Configuration	too large	(dp	190		(g)	(4)
Device	A5	Thu,	72,	71/2	<u> </u>	72,4
Description			*			-
Class	Error		9	9	à	)
Drive Behaviour	Tho.		"Tho.	76.	. H.S.	
Device Behaviour	Car.		- (C)	(gr.,	T. S.	3
Additional Error Infor	mation (AN	IK Service)	370		776	770
. Open	Info 1	520	Runtime error		The same	. (1)
ale.		550	Configuration too large	274		" Nagar.
Error Removal		4.	4,	4,		4.

- Error during the initialisation fir the EtherCAT option
- Device for the operation of the optional component AS-FEC1 not released. The option card cannot be installed subsequently.

Device	AS-PL15		
	AS-Cxx-1		
	A5		
Description	1000		Ko, Ko,
Class		7/10	
Drive Behaviour		. 60	
Device Behaviour	System rur	n-up aborted	Mr. Mr. Mr.
	Controller:	EtherCAT do	pes not boot
Additional Error Inform	nation (AMK	Service)	
19/2×	Info 1	1	EtherCAT not parameterised in any instance of "ID34140 AS BUS protocol"
.80	5	2	Error while reading the bus parameters
702		3	Registration at the router faulty
'44' ₁₀		4	Setting up the cyclic functions faulty
My,		5	Driver interface not initialised properly
3	2	6	Device not released for the operation of the optional component AS-FEC1 (dongle code)
-3 ^h	"The	7	Option not configured as master
"72	3	8	Option ACC active (Instance 1 or 5) EtherCAT and ACC-BUS can not be active both
"INIGO		10	Access error to cyclic driver interface (The version of the EC driver is not compatible to the AMK library)
27,		11	Initialisation error
		21	Invalid task
×8.		22	Error during bus restart



Device	AS-PL15 AS-Cxx-		Ha.	Wan	n'i	4	nn
	A5						
Description		153.4	16.7		Max.	150.4	
Class	763	0)	Nagara and American A		Carlo.	N. S.	
Drive Behaviour	"760,		"Z ₁₀ "	-76	),	710.	
Device Behaviour	Controlle	er: Depends	on additional inforn	nation		1900	4
Additional Error Info	mation (AM	K Service)	The same	Th.		27.	77.74
, n	Info 1	0	EtherCAT boot This error is a s		ncelled. or to the errors 2	726 or 2727	14
Error Removal		20	25	-	28,	26	

Error in the En		booting pro	cess	77,0,		77.70,	71. (O)	
Device	AS-PL15							
	AS-Cxx-1							
Decarintian	A5		- 6			100		
Description	20/2				- 19 A			
Class	1000	, d	60		- S-Civ		20	
Drive Behaviour	Out to the second					- 101/L	- 10 M	
Device Behaviour		i-up aborted EtherCAT do	oo not boot					
Additional Error Info		000	Jes not boot	470			1916	
- Additional Error line	Info 1		Error while s	tarting th	a master c	Iriver		
	11110	'						
	20/40	.6	Info 2 1, 2, 3		internai	Error (AMK Service)		
	19 ₀₀		60	5	No conn	ection to slaves	vč	
	200	2	Error during				200	
		- "High	Info 2	1		gured slave was not foun	d M	
		The state	11110 2	Try.	I -	.00	72.	
					Info 4	Slave network position		
	20		20	2		ves found than configure		
	27/20		2 des		Info 4	Slave network position	l	
	19 Cic.	.0	SP	3	Slave ha	as wrong revision		
	120	1000		1895	Info 3	Actual revision	Nago.	
		"4' LO.		71.0	Info 4	Slave network position	77/07	
11/2		3	Error while a			r function (subsequent er	ror of 2731	
	6		Info 2			MK Service)		
1940.	As.	4						
	A CONTRACT	4	Error reading the slave information  Info 2 Internal Error (AMK Service)					
	Šie –		ļ <del>-</del>					
		5 1100	Error writing	the slave	1			
		The .	Info 2	1		error to the bus configurat	ion	
				2		gth of the ID is not valid		
	9		- di		Info 3	ID		
	To Variation		A.s.		Info 4	Slave address		
	To Variable	3,30		3		or at dictionary enries, se rong for this configuration		
	,	1900		1900	Info 3	ID 💍	1900	
		aly.	_1	The same	Info 4	Slave address	Try.	
279		6	Error writing	the PDO	configura	tion		
	12.0		Info 2	2		ry" information not in EEF	PROM of the	
	Card.		120.		Info 4	Slave address		
	30)		[		0-			
	>-	7	Error during	- 67				
"AH"		" Tay !	Info 2			MK Service)		
27,		8	Error during	writing th	ie RT data	24,	27	
		9	Error during	reading t	the RT dat	a		
19.5.	73.5.	10	Error during			· 14.7		
age,	Sign.	11			-0"	uent error of error 2730 o		
	10	12	Error during process slav			us, Subsequent error of e	rror 2731	



7/6	-74	14	Write error du	ring DF	10 manning
	Carlo.	14	Write error du		
	770		Info 2	1	Slave not available
	900		3000	2	Slave does not support COE protocoll
		42		3	Slave does not support PDO
		W.		4	direction of the PDO is not valid
				5	error during start of the sync-manager
	6	3,		6	PDO already mapped
	19		200	7	error during creating the PDO
	*OLLO		xoffic.	8	PDO could not be copied
70 ₂₀	7000	15	Command dri	ver res	et failed
100	0	16	Error while re	ading F	PDO mapping
No.		17	Error while re	ading s	lave names
		20	Driver comma	and time	eout
20,		40, 41, 45	Error during b	us star	- 'Y'S, - 'Y'S,
, Off 1814/16	20/4	42 - 44	Error while ac	cessin	g slave parameter
	*Oluce	xoff"		ID-no	) / index
	709/1		Info 4	Slave	e address
n _{th} i		46	Error configur		lical data. Additional nodes are found See ID34026
		Ò	Info 2	1, 2, 3	Internal Error (AMK Service)
29/20.	201	50	Return messa	ige whi	le writing slave parameters
-Ollio	-01/10	51	~ 0		or while reading slave parameters
'Reguesia (Caraca)	Sp. St.	203, 205, 206, 208, 209	Internal errors	s (AMK	Service)
Error Removal	• No	254.7	aster option car	d availa	able
		bus connecti			
			component AS-	FEC1	
	1/2	•	cable and repla		ecessary
- CV	1 50110		cabio and ropic		

Error EtherCAT	configuration	My .	Ada,	My.	April 1
Device	AS-PL15 AS-Cxx-1 A5	-14E-Q		Ò.	<b>1</b> €23
Description	-Ollis		N. Co.	- Allia	
Class	Error	23/20	Zalik.	~ SILL	
Drive Behaviour	(0)	7/0),	7/02	7/01	
Device Behaviour	System run-up all Controller: Ether	borted CAT booting process car	ncelled	My	W.



, additional		nation (AMI	. Gervice)	Č.		A CO	
	21/2	Info 1	1 10	Too much cyc			
			2		d slave		ent from the existing slaves
			un.	Info 2	1	A configu	ured slave was not found
			2,	2,		Info 3	Slave with fixed address not found
				2		Info 4	Slave network position
		150.1		Marie .	2	More sla	ve exist as configured
		Carles .	3	(B)		Info 4	Slave network position
			2/10		3	Slave ha	s wrong revision
			7790		190,	Info 3	Current revision
			The same		10.	Info 4	Slave network position
				-	4	Not confi	igured slave
		9		9		Info 4	Slave position
		"The		A.o.	5	1	und without "category information" in
, ,	80	Con	zó			EEPRON	
		Info 1	2		6	Device a	iddress already exists (twice assigned)
			" My Is	. 9	The same	Info 3	Slave address
			200	22		Info 4	Position 2nd slave
				2	7	Slave wi	th "vendor id" egual zero
		163.5.		15 S.		Info 4	Slave position
		Cic.	, of	25,	8	Slave for configura	und with fixed address, but not in
			1090		7090	Info 3	Fixed address
			74/0		450	Info 4	Slave position
			Tr.	- 25	9	Link pres	sent but no slaves found, e.g., connecte or KW-R05 with VARAN interface
				- 2	10		composition of real time telegram
		alghe.		200	11		ration file XML format error
	- 30	0	3	Access to the			1142 Node list") failed
	10,000		4	Initialisation S		•	F142 Node list / lailed
	NAN S		5				ctionary entries (e.g. "ID 2 SERCOS cyc
				Info 2	1	Frror dur	ring access to the bus configuration
		13.0		188	2		ata length of an ID
		314		AST .		Info 3	ID
		11	30	1	2	Info 4	Slave address
			"May lightery"	to.	3	Error dur	ring writing the dictionary entries, order aves in configuration is invalid
			2,	27		· ·	uent error of 2728 or 2729
						Info 3	ID
		160.5		12.S.		Info 4	Slave address
0		Car.	6	Error during w	riting th	ne PDO dio	ctionary entries
			350	Info 2	1 💰		ring access to the bus configuration
			"Midpor		3	Error dur	ring writing the dictionary entries
			the same	47,		Info 3	ID
						Info 4	Slave address
							LOIGNE GUUIESS

	000	8	Error in PDO o	ontigui	ration
ralloffic	Walternia.		Info 2	1	AT is empty, has to contain at least the "ID135 Drive status word"
C.	(c)	14.	9	2	ID135 is not the first entry in the AT
W		The state		3 4	MDT is empty, has to contain at least the "ID134 Master control word"
9		6	6	4	ID134 is not the first entry in the MDT
Laply.	Calaks	, · ·	aligha.	5	Data size of the PLC variable is not equal to the mapped value
Postino.	apolitic.	9	Error during a "ID1204 XML-	ccess to File", "I	o the bus configuration D1205 XML-File"
in the second		The state of the s	Info 2	1	Error during access to XML file
17,		29.		2 3	Error during access to the bus configuration ID
2			<u> </u>	4	XML format error
May.	143	33	163		Info 3 Internal Error (AMK Service)
Vigo.	190	10	Addresses in	configu	ration faulty
aldio.	alto.		Info 2	1	Network position not found
GO.	900	. 4	ġ?"		Info 3 Position
" The		2424		2	Network position exists multiple times
1,		1.		- 4	Info 3 Position
6		6	9.	2	Address invalid, > 225
A.	"He	, · ·	The.	3	70
Citizer,	aller.				Info 3 Address
La die	Maritie		- alife	4	Address issued multiple times
(Q)	(9)	14.	8		Info 3 Address
n _{th}		21/20		5	Optional device without fixed address
					Info 3 Position
28	.0	11	PDO structure	in conf	figuration with error
adle	30/4		Info 2	1	Address does not exist
*O(L)	*Off."		x010°		Info 4 Address
TO MAN	7030		200	2	Number of entries incorrect
(S)	19	12			Info 4 Address
The state of the s		Ma		3	Structure detail incorrect
					Info 4 Address
75'5,	5.13	8,	E 22.2	<u>                                     </u>	IIIIO 4   Audi E35
May Care	" Sight	12	Error PDO cor		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
"Ito"	" TOU		Info 2	1	Internal error
Sp.	apo.		300	2	XML format error
. and		The state		3, 4	Configuration faulty
27,		17		14.	Info 3 Index
8		9		<u> </u>	Info 4   Address
The x	W.	'X	"Way	5	Chosen PDO selection not supported
Carrier Carrier	" Carry		A. Carlo		Info 3 Index
allio.	alito.		"IIO.		Info 4 Address
Error Removal			configuration		
ny		ck slave (Info	-	ee anni	anment
			resses in addre		
200		1 = 7:	iaves (slaves W	ıuıout II	ixed addresses)
2014		ck cabling			
10 CC			rCAT input (AM	K devic	es X86) and output (AMK devices X85)

Error EtherCAT	protocol dur	ng ID acce	SS	7700	7/02	77,00		
Device	AS-PL15 AS-Cxx-1	True.		The state of the s	m.	m.		
Description	9		6		8	9		
Class	Error		They.		7K2.	K3.,		
Drive Behaviour	Car,		Car,		Elg.	,		
Device Behaviour	Controller:	ID access I	y service cha	nnel is ca	ncelled	170		
Additional Error Inform	nation (AMK	Service)		(9)	'Go	190		
No.	Info 1	1,55	Service cha	annel erro	or was	The state of the s		
20		3	Router rep	orts error	4.	20		
	6		Info 2	Retu	rn value router	6		
Mo.	1/2	4	Attribute of	the ID in	the controller unknown (current	ADB file necessary)		
Co.	100 m	5	Service channel not yet ready, e.g. boot process still active					
	9	6	Slave not found					
(0)		7	Slave not in	nitialised				
" May		8	Type of protocol not supported			na.		
		2.	Info 2	4	COE is not supported			
	9		6	16	SOE is not supported	9		
"Mo,	7/50	> 20	access erro	or to drive	r A ^{re}	160,		
Error Removal	Info Inst     Info	1 = 4: tall current <i>i</i> 1 = 5:		whilipg	ing FuiGetNetStatus function bl	ock		

Device	AS-PL15 AS-Cxx-1	'Round	'Sp _{erior}	Physical
	A5			
Description				
Class	Error	6	9	8
Drive Behaviour	W. W	.,	8	\$
Device Behaviour	Controller: ID access by servi	ce channel is cancelled	The state of the s	8



Additional Error Inforn	Info 1	1	Slavo doco	s not support the service channel			
	IIIIO	'					
9,	(0)		Info 4	Slave address			
		2		n too long for the mailbox			
			Info 2	Length			
		9	Info 4	Slave address			
	1676	3	Faulty serv	ice channel feedback			
	*Ollico		Info 4	Slave address			
702/2	10911	4	Mailbox da	tagram not received			
	10.	13	Info 4	Slave address			
22,		5	Mailbox da	tagram working counter error			
			Info 4	Slave address			
(A)	V.	6	Timeout red	ceiving mailbox			
	" SICH		Info 4	Slave address			
	760	7, 8		annel invalid answer			
	9200	., 5	Info 2	ID			
	4	44	Info 4	Slave address			
The state of the s		9	<u> </u>	on mailbox occupied			
		9	Info 4	Slave address			
	76			NA			
	Carlo.	10	~0.0	ansmission mailbox			
- 20°	350		Info 4	Slave address			
	900	11 - 18	(N)	ce channel invalid answer			
	7.	722	Info 2	ID grand			
1,		20	Info 4	Slave address			
		20	Error send	0) 0)			
"Ho'5	The state of the s	21	Mailbox error message				
	May,		Info 2	Error			
Wile.	July .		Info 4	Slave address			
30-		22	Internal err	or S			
- Land	79	23	Mailbox err	ror, too many requests			
-		24		protocol type received			
		40 - 44		ce channel error			
	Tes		Info 2	Index			
	- Ollies		Info 3	Sub index			
	~9J1		Info 4	Slave address			
	10,	45	COE emerç	gency			
		My.	Info 2	Error code			
			Info 3	Error register			
20	,	3	Info 4	Slave address			
and the	10	46, 47	COE service	ce channel error			
	, colling		Info 2	Index			
	1000 m		Info 3	Sub index			
9	10	il.	Info 4	Slave address			
100		102	Incorrect ta	sk 4 th			
		103	Mailbox pro	otocol initialisation			
	.6	105, 106	Incorrect ac	ddress			
The.	J. J.	107 - 109	Incorrect pr	rotocol type			
,off'	xoffin	111 - 150	Mailbox err				
	237	200 - 399	Internal Err	or			



Error Removal	Check PLC program	23
200	Check slave with address from "I4"	1101
, N. Editat	<ul> <li>Info 1 = 4 while booting:</li> <li>Check whether ACPI enable has been configured in BIOS Power Management</li> </ul>	1.idbar

Device	AS-PL15						
	AS-Cxx-1						
	A5						
Description		Thu.		The state of the s	212.	77.	
Class	Error	A.		20	20	1/2	
Drive Behaviour			2	2	A		
Device Behaviour	Controller:	Further beh	aviour depen	ds on the subsequent	error		
Additional Error Inforn	nation (AMK	Service)	1800	A. P. C.	N. S.		
-310	Info 1	1 3	Datagram ı	memory error	170	770	
		1900	Info 2	Size	'S.,	900	
774,		2	Datagram i	not received	- Charles	The state of the s	
		2.	Info 2	Offset 1)	-20	- 29	
	6		Info 4	Slave address	9		
:4 ²	"The	3	Datagram working counter (WKC) error				
	Car.	,	Info 2	Offset 1)	West,		
		1000	Info 3	WKC	~9 ₂₆ ,	- 10 m	
		71/0/2	Info 4	Slave address	7/07	7/02	
Ma		4	Datagram t	imeout send	N. C.	274	
			Info 2	Offset 1)			
	20		Info 4	Slave position	Ś		
191	2010	5, 6	Datagramn	n error	10%		
	E. C.		Info 2	Offset 1)	305	×.	
		7090.	Info 4	Slave address	7022	7020	
77,0		7.	Frame time	out error		- Air	
20,000	1) Offset: A	ddress in the		ave controller	Mu.	22,	
Error Removal	• Coi	mmunicatio	n error	ve controller not acces	sible or not existing		



Device	AS-PL15			774	The same of the sa	The state of the s
73/	AS-Cxx-1					
	A5					
Description	14	3.7.	16.5		Q.S.	Ka.
Class	730		N. S.	La Carrier	, and the second	51
Drive Behaviour	7/10.		N.C.	allio.	NIC.	
Device Behaviour		-up aborted EtherCAT do	pes not boot	"A1'GO	"4":QD.	.23
Additional Error Infor	mation (AMK	Service)		19,	14,	177
	Info 1	1	Error during A	AL status change	_	A
	14	35.	Info 2	AL status code (Int	ernal error (AMK service	e))
	Tage.		Info 4	Slave address		37
7/10	1/10.	2	Timeout AL s	tatus change	7/10	
	1900		Info 4	Slave address	(1)	
The state of the s	14	3	Status error c	ould not be deleted	"Ville	No.
			Info 2	AL status (Internal	error (AMK service))	
	,	Ŝ.	Info 4	Slave address	_\$	9
97/ ₁₀	1/2	4	Error during t	he slave configuratio	n (frequent subsequent	error of 2730)
	*OLUG		Info 4	Slave address		
1000	7000	5	Error during t	he configuration of th	e slave address	
	41/2	122	Info 4	Slave address	THE .	23
1g.		6	Error in the co	onfiguration DL acces	SS	14
		2	Info 4	Slave address	À	A
- No.	14	7	Incorrect mod	lule address	10 ×	16.
N. S.	-430	8	Constant stat	us change in slave	_C(0)	
	170,		Info 4	Slave address	-9/1/6	
5	7/25	10	Invalid status	requested at status of	hange	
444	10	11	Error at status	1.70	N. Marie	.11/10
Error Removal	Cor	nfiguration er	ror in a slave (s	see error in a slave)	70	

Device	AS-PL15	20,		1/1/2	20		144
	AS-Cxx-1						
Description		25	0	8,	25,	25	
Class	Error	1	J. J. P.		THE STATE OF THE S	2016	
Drive Behaviour	"OLL		*Offic		O.C.	, of C	
Device Behaviour	1297		2000	18th)	,	290	
Additional Error Infor	mation (AMI	( Service)	410.	71,0		74.00.	4
117	Info 1	18	Error while	writing permaner	nt address to EEP	ROM	200
			Info 4	Address			
Error Removal	• No	slave exist	s at this addres	S	· 3.9°		
	• Th	e slave with	this address is	offline.			
	● Er	ror while wri	tina				

#### 4.17 No. 2740 ... 2749 Modbus

### 2741 Modbus configuration

Device	IDT						
Description	A. C.		75/1	21/1/2	_(	ich.	
Class	of C	ж.	26	XOT TO S	70,		χδ
Drive Behaviour		703/2		1030	2000		03/2
Device Behaviour	System r	un-up aborted		71/0	7/0	71/0	)
Additional Error Infor	mation (AM	IK Service)	3	120	No.	2744	
	Info 1	1	Slave number	er in "ID34023 BU	S address participa	nt" is incorrect	
~ \$\)	20,	2	Baud rate in	"ID34028 BUS ou	tput rate" is wrong	20	
23 Per	70/10	3	Protocol type	in "ID34025 BUS	mode" is unknown	P. Committee	
100	300	4	Number of da	ata bits in "ID3402	5 BUS mode" is inc	correct	- 6
Error Removal	• Ir	nspection / cor	rection of the ID	described in the	additional info		20/20

#### 2742 MODBUS communication

Device	IDT		Ma.	Mo.	"H3.,	
Description	Carlo		Kar.	Tar.	Car.	
Class	50	3	6.	Tio.	27/20	, Jilo
Drive Behaviour	Drive rur	is down	(%)		'92°	190
Device Behaviour		Thu.	77.00		The state of the s	774
Additional Error Info	mation (AM	K Service)	140		do	14
Δ.	Info 1	6	Parity error		2	
10%	10.7	7	Framing error	12.7	10%	
No.	190	8	Overrun error	197	N. S.	
3	60	9	Receiving buffer full	40,	10	10
Error Removal	• C	heck the cor	rect setting of the comm	unication param	eters	1900
	• R	eplacing the	MODBUS cables			
	• C	hange the co	nnecting plug			

### 2743 MODBUS protocol

<ul> <li>Error in the MO</li> </ul>	DBUS proto	col				
Device	IDT	7037	30%	100	1080	70872
Description		7/1/0				'4' ₁₀
Class	Warning	1/2,	4111		Thu,	200
Drive Behaviour						
Device Behaviour	28		28	20	20	
Additional Error Inform	mation (AM	( Service)	79/c	77.	2/6%	
100	Info 1	5	CRC Check	offic	- Oll.	. 6
79 ₁ )		7	Wrong data length of	during the function	on "Read n words"	~9 ₀ 0
7/0,		8 7/0	Wrong data length of	during the function	on "Write n words"	7.50
The state of the s		9	Wrong data length of	during the function	on "Read n bits"	M
		10	Wrong data length of	during the function	on "Write 1 bit"	
. 6	- 61	11	Wrong address duri	ng the function	'Read n words"	
The.	7/2	12	Wrong address duri	ng the function	'Write n words"	
60	200	13	Wrong address duri	ng the function	'Read n bits"	3
The same of the sa	Š	14	Wrong address duri	ng the function	'Write n bits"	alle.
(1)		15	Unknown function c	ode	(1)	.00
Error Removal	• Ch	neck the setti	ngs of the MODBUS ma	aster	"ala	The same



#### 2744 MODBUS command

Device	IDT					
Description						
Class		9	9		9	9
Drive Behaviour	Drive rur	ns down	Thomas		Ko.	"Tho."
Device Behaviour	-43	0.7	- C. S	-Kill		T. S
Additional Error Info	rmation (AN	IK Service)	7/20	7/20	8	200
9	Info 1	1	Unknown app	lication mode	- CD	
2	720	3	Error detected	in the control functi	on	The state of
4,		4	Error detected	in the status function	on	4,
Error Removal	• 0	heck the spe	ecifications of the N	//ODBUS master	_	

# 4.18 No. 2816 ... 2819 AZ/Kx Option PS

# 2816 PS option

Device	Option PS				
Description	743.,	The same	W.		163.
Class	Warning	Kar.	(In)		Ø.,
Drive Behaviour	2/10.	"Zio.	270	2/20	
Device Behaviour	90,	190,	(9)	(2)	
Additional Error Info	rmation (AMK Service)	The state of the s	77,20	The same	12/1
14	4	100	4,	1,	40
Error Removal	Check PS us	ser program			

# 4.19 No. 3071 ... 3079 AZ Option SERCOS

# 3072 Error option SERCOS

Device			
Description	STATE OF		"A" "A" "A"
Class	Warning	×C	
Drive Behaviour		230	7.45°
Device Behaviour		71/0	
Additional Error Inforn	nation (AM	K Service)	May May May
	Info 1	1	MST-failure in communication phase 3 or 4
20	20	2	MDT-failure in communication phase 3 or 4
The same	de	3	Invalid communication phase
	300	4	Communication phase-incrementing (sequence)
78 ₁₁		5	Communication phase-decrementing (not in phase 0)
71:02		6	Communication phase-switching without ready message
Ny.		9	Memory error (allocated)
		10	Memory error (deallocated)
9	9	11	No AZ-Handshake (AZR-failure?)
Garage Contraction of the Contra	Cardia	12	AT/MDT configuration error (evaluation in command "ID127 Transition check phase 3")
72,	Ö	21	"ID 2 SERCOS Cycle time" is not 0.500
, M. 192°		23	"ID 2 SERCOS Cycle time" can not be divided by base time (ID 2 remanent)
The.		24	Main operating mode incorrectly
		26	Timeout in Interrupt: time level overflow
19.5	13.5	27	Entry in ID 96 chained incorrectly
Sig.	201	28	Hardware failure AZ-SCx or 48 V-failure
Error Removal	5	u di	of

# 4.20 No. 3228 AZ Option NC

# 3328 NC option error

Device	(O)				
Description		7020	7020	7020	7032
Class	Warning	T ₁ (c)	41/0	7/1/2	M _i
Drive Behaviour		Ma	Na.	Mar	Ma
Device Behaviour					
Additional Error Info	rmation (AMK	Service)	`	20	'S,
29/2	STAPE OF THE STAPE	100	155	19/4.	
Error Removal	300	7/100	The same of the sa		200

### 4.21 No. 3584 ... 3603 Special Functions

### 3584 'System diagnostics: Special software message'

Device	ZWR			
Description	Overload protection tripped	2/2/2	2/1/2	
Class	Error	,01	x0 ⁽¹⁾ 0x	
Device Behaviour	Automatic error reset and switch back o	n 💮	:030	
Additional Error Info	mation (AMK Service)	1/0	74/02	14.
257	100	2/1/4	May	The same
Error Removal	Replace overload protection -F1	100 in connectbox		

<ul> <li>Error message</li> </ul>	e Motor Cont	roller					370	
Device	MCE			Q ²		(0)		
Description	Ta.		242			The.		in the same of the
Class	Error					74		4
Drive behaviour	Drive run	s down			6			9 9
Device behaviour	-	Jr3.,			FO.			M. M.
Additional information	n (Info AMK	servic	e)	May.	)		-6	D.,
	Info1	1		Info2	3	Info3	1	Upper voltage limit < lower voltage limit
	120					They	2	P(motor) < 0
						3.0	3	P(generator) < 0
		12.2			13.2		4	Sign error of torque limit from calculation
	_\di	3,		790	1		5	0 V > Uz > 1000 V
	"POSITION"			Salton.		30%	6	-300 kW > motor shaft power > 300 kW
	74 (O.			(9)		14:0	7	Error in quadrant determination
	12					30 120	8	Faulty settings of voltage limitation
		2		Faulty pa	ramete	risation		
		13.S		Info2	<u></u> 27		ating	settings
	A. S.	3		Error dur	ing ope	ration	0	E. Ye.
	1101			Info2	2	Info3	2	Invalid system status automat
	90,0			90,00		111100	3	Monitoring output values
	Ezy.	4	- 144	Faulty pa	ramete	risation		No.
		-		Info2	4	Tr		Number of pulses 0
		6			- &	Info3	1	Number of pulses = 0
	10	5		Error dur	ing ope	ration		The.
	- Aller			Info2	1	Error as	synch	nronous data storage
	dhalin	7		Info2	1	Info3	1	ID32798-10: 'MCE operation mode' not defined
	120					The state of the s	2	ID32798-32: 'Direction forward' not defined
		6			6		3	Plausibility accelerator
		743 ×			13×		4	Parameter accelerator
	all a	9		Error dur	ing ope	ration	~	
	NIG.			Info2	1	Toggle	17.	



² 12 ₁₂	414	10	Error dur	ing syste	m check of the inverter
	5	10	Info2	1	Analogue 1
		7030		2	Analogue 2
		- CA160		3	BE1
		True,		4	BE2
				5	BE3
	200			6	Speed difference
	ich.		Tolky .	7	Pulse encoder input
	3	11	Error on i	inactive	switching off of terminal 15
		9200	Info2	1 , 3	No switching off after end of 'Switch-off time'
Error removal		neck paramete e-start device	erisation	Naga.	May May
	e Int	Sof	ernal hardv tware used	vare erro	EE hardware: or; please contact AMK service / hardware: or; please check wiring
Fault monitoring	power sup	ply			
Device	ZWR				

<ul> <li>Fault monitorin</li> </ul>	g power supply	190°	1900	1900	1900
Device	ZWR	The same of the sa	The same	"Hy.	"Tyle
Description	NA protection	device -A3 has tripped	d	10	20,
Class	Error				
Device Behaviour	Automatic erro	or reset and switch bac	ck on	10.5	
Additional Error Infor	mation (AMK Se	ervice)	190	190	
.8	Ö,	10	70	10/	10
Error Removal	Check	mains conditions	700	1000	702
	<ul> <li>Check</li> </ul>	configuration NA devi	ice -A3		

Device	MCE					
Description		100	1000		127	1200
Class	Error	"110	"1'0"		"1' _{CO.}	710.
Drive behaviour	Drive rur	ns down	2/1/2	3	12,	The state of the s
Device behaviour						
Additional information	ı (Info AMK	service)	9	6	9	
The same	Info1	0	Memory error	The	"This	
	The same	1	Module command erro	IL.	The same	3
	9	2	Invalid value in ID3402	28 'BUS output	rate'	- 2000
		3	Invalid value in ID3402	24 'BUS transm	it rate'	(40)
		4	Error during access CA	AN	43	720
		5	Error in message confi	guration (ID34	036 'CCB-File')	
Error removal	• \ C	heck parame	ters	8	8	
	√e [×] F	e-start device	, 1 ₀ ,			

ZWR	200	Page 1	Page 1	Page .
Fieldbus interrupti	on	71.00.	"1' ₁₀ "	71.0
Error		71,	May.	20,
Automatic error res	set and switch b	ack on		
ation (AMK Servic	e) 💍	9	, Ø.	
A.	Alco	Allo	A.	
Check bus	wiring	all in	ALCO.	25
<ul> <li>Check inverse</li> </ul>	erter -U1			
<ul> <li>Check con</li> </ul>	trol unit -A1			
	Fieldbus interrupti Error Automatic error restition (AMK Servic  Check bus Check inve	Fieldbus interruption Error	Fieldbus interruption  Error  Automatic error reset and switch back on  ation (AMK Service)   • Check bus wiring  • Check inverter -U1	Fieldbus interruption  Error  Automatic error reset and switch back on  ation (AMK Service)   • Check bus wiring  • Check inverter -U1

Error during ope	eration		<u> </u>					3
Device	MCE	7474,		7.71.24		Tala .		The state of the s
Description				- 1	-1			
Class	Error	9	6		6		9	
Drive behaviour	Drive runs	down	"Thou		Tho.		Thomas	
Device behaviour	Car.		1. C.		(3).	6	100	
Additional information	(Info AMK s	ervice)	7/10	770		7760		
25,0	Info1	0	Failure of setp	oint message		90,		(
	7	1 35	Checksum erro	or		"VIA"		7/1/4
		2	Error in messa	ge counter				47
		3	Implausible sig	gnals (during inv	verted transmi	ssion)		
	Sk	4	Unknown mes		NDS.	,	13.5	
	Vaid.	5	- 17	wrong length re	ceived		1977	
	HOL.	6		nission, possibly		nected		
Error removal	• Re-	start device	Property of the second	. Opo		, dipo		
Page 1	• AM	K service	V [*]	244		Thy.		474
Temperature ca	binet too hig	h		-73				-9-
Device	ZWR	9	2		A		- 2	
Description	Overtempe	rature in cab	inet		Tho.		Mrs.	
Class	Error		N. Carlo		(B)	- 6	400	
Device Behaviour	Automatic	error reset ar	nd switch back o	n 📈		170		
Additional Error Inforn	nation (AMK	Service)	1900	(200		100		-
47		100		May		They		400
Error Removal	• Che	eck cooling /	fan in cabinet	4,	-	1		4,
	• Che	eck fuse -F11	A					
	• Ché	eck thermosta	at -S1					

### 3588 'System diagnostics: Special software message'

Frequency too	low	74/2	74/	"Up"	747
Device	ZWR	27	27	11.	27
Description	Mains frequ	ency out of configured fre	equency range		
Class	Error	3.	,S,	195,	192°
Device Behaviour	Automatic e	rror reset and switch bac	k on	3	G,
Additional Error Inform	mation (AMK S	Service)	70°C	70/	
70 ₂₀	729	70,97	70gr	7097	
Error Removal	Che	ck mains frequency	41.00	41/0	" styl
	• Che	ck configured values			

<ul> <li>Frequency too</li> </ul>	high	M. S.	AC.	.,	<b>3-1</b>
Device	ZWR	-975	2000	2011	
Description	Mains frequenc	y out of configured fre	equency range	770	22.
Class	Error	The state of the s	22/4	The state of the s	Total.
Device Behaviour	Automatic error	reset and switch bac	k on		
Additional Error Infor	mation (AMK Serv	vice)	9	9	9
740.	.363	76	,	740.,	143.
Error Removal	Check n	nains frequency	N. Commission of the Commissio	The state of the s	
	Check c	onfigured values			

Voltage too lov	N 30°		,	79	(0)
Device	ZWR	77,		244	The same of the sa
Description	Mains voltage out of co	onfigured voltage rang	je		-
Class	Error	6	6		9
Device Behaviour	Automatic error reset a	and switch back on	"This."	"Az	>
Additional Error Infor	mation (AMK Service)	Thin,	Mar.	M. S.	<u>(</u>
3		9	ALIEC .	NIN.	alle
Error Removal	<ul><li>Check mains volume</li><li>Check configure</li></ul>	477.		'ANI'ID	.undidis

#### 3591 'System diagnostics: Special software message'

<ul> <li>Voltage too high</li> </ul>	gh 🔊	7927.	×30,	79.04	
Device	ZWR	100	100	10	70%
Description	Mains voltage out	of configured voltage rang	е	700	
Class	Error	The same		This section	"UI"
Device Behaviour	Automatic error re	set and switch back on		24	24
Additional Error Infor	mation (AMK Service	e)			
18.5°	28.5	38	3.8		3.S.
Error Removal	Check ma     Check con	ins voltage ifigured values	"OLIGIA"	,Official	,off

### 3592 'System diagnostics: Special software message'

<ul> <li>Fault voltage (s</li> </ul>	switch on)						
Device	ZWR	9					
Description	Mains voltage below configured switch-on voltage	Mains voltage below configured switch-on voltage					
Class	Error	The same	×.				
Device Behaviour	Automatic error reset and switch back on	- 3/5/6	- 3/1/10				
Additional Error Infor	mation (AMK Service)	700	(4)				
"Ha	The The	The same of the sa	The same				
Error Removal	Check mains voltage						
	Check configured values						

<ul> <li>Fault frequency</li> </ul>	y (switch on)	1900	1900	190,00			
Device	ZWR	The same of the sa	"May"	My.			
Description	Mains frequency exceeds conf	figured switch-on frequency	11,	27,			
Class	Error		_				
Device Behaviour	Automatic error reset and switch back on						
Additional Error Infor	mation (AMK Service)	~9 ₂	Vigo,				
Š	0, 10,	.101	10,	10			
Error Removal	Check mains frequency	y No.	. No.	.202			
74/2	<ul> <li>Check configured value</li> </ul>	es	74/10	Th' S			

<ul><li>Warning string</li></ul>	monitoring conne	ectbox (n) string (m)					
Device	ZWR	272	Tales.	220	THE.		
Description	String current I	below configured permi	issible deviation				
Class	Warning	-	3)	9	9		
Device Behaviour	Automatic erro	Automatic error reset and switch back on					
Additional Error Infor	mation (AMK Sei	rvice)	-Kar.	_6	(g.,		
"Zio.	770	2/20	2/20	N. C.			
Error Removal	Check	string	. 000	. 350			
	Check	configured values					

#### 3595 'System diagnostics: Special software message'

<ul> <li>See special de</li> </ul>	scriptions corresp	onding to special so	oftware documentation	3,	20,
Device	10	10	10	107	
Description	700	700	. 100	100	à
Class	11	Tyles.	74/2	74/2	24/
Drive Behaviour		21,	21,	77,	21,
Device Behaviour					
Additional Error Infor	mation (AMK Ser	vice)	, o.S.	19.5°	73.5,
314	29	350		9	374
Error Removal	10°C	101	100	10°C	

### 3596 'System diagnostics: Special software message'

<ul> <li>See special de</li> </ul>	escriptions correspond	ling to special software	documentation		
Device	9	9		9	9
Description	"The	Tho	A.	0.	The
Class	200	W.	ALCO.	3	C.O.
Drive Behaviour	-470	-47/6			
Device Behaviour		300	(0)	(0)	.30
Additional Error Infor	mation (AMK Service	5) 1 _{2,2}	744.	The.	720
4				4	
Error Removal	9	9		6	6

See special de	scriptions corr	esponding to spec	cial software do	cumentation	No.		
Device	24.	7472		74/2	74/2		TA1.
Description		1/1,	7	10	27,		172
Class							
Drive Behaviour	5.0	,S	795	J. 6	Ś,	~9·5,	
Device Behaviour	201		214	201		igh	
Additional Error Infor	mation (AMK	Service)	96.	70	3	OL.	
7020	7030	7030		7020	7000		
Error Removal	71/2	71/6		71/2	7/1/0		7/1

3598 'System diagnostics: Special software mess
-------------------------------------------------

0			1 6		X6''	
See special de	scriptions corres	sponding to special	i soπware docum	nentation	(9)	7/0
Device	25	In the second	"Ing.	224		Tage.
Description						
Class	9	9		6	6	
Drive Behaviour	To	"The.		Thomas	"His.	
Device Behaviour	-16. E	-Car.	_<	Co.	-Con-	_6
Additional Error Infor	mation (AMK Se	rvice)			"Ille	allie.
. 600		1900	. 60		D.	. 450
Error Removal		1740.	Trans.	TI2,		True.
4,	- 73		4,	4,		4,

### 3599 'System diagnostics: Special software message'

~			al software do	-0		~~		
Device	40,	200 XO		40,	10			40.
Description						200		7000
Class		.41.	415		"Ay'		74/10	
Drive Behaviour	274		274		M		2/4	
Device Behaviour								
Additional Error Info	rmation (AMK Ser	vice)	5,	3.9		13.9		
"Apple	200	"Ide		2016		J. C.		
Error Removal	-6 ¹	.05		·0//		1		.01

### 3600 'System diagnostics: Special software message'

				- 19	- 29
See special des	scriptions corres	ponding to special so	oftware documentation	on	
Device	6	9	3	3	9
Description	Tho.	The.	The.		Ho.
Class	1000	Ma.	This.	The second	<u>(</u>
Drive Behaviour	9		ALL COLORS	- NIC	
Device Behaviour		(9)	. (3)	(6)	(6)
Additional Error Inform	nation (AMK Se	rvice)	74/40.	74/44	71/20
4.	4		4.	4.	4-
Error Removal	8	8	2	<b>\</b>	9

# 3601 'System diagnostics: Special software message'

<ul> <li>See special des</li> </ul>	criptions correspo	onding to speci	al software do	cumentation	70,50		70,50
Device	25	47,00	14/2		14/2		'41/2
Description	27.		17,		21/4		27,0
Class							
Drive Behaviour		7.85	5,			. 3.9	
Device Behaviour	"Id"	201		27/2		THE STATE OF	
Additional Error Inform	ation (AMK Serv	vice)		,of 1	.05		70,
1020		7020	365	25.	4000		1020
Error Removal		450	410		"4 ₁ ',		24/2



### 3602 'System diagnostics: Special software message'

Device						
Description			-			
Class	9		9	9	9	
Drive Behaviour	Thomas		Fo.	The .	7F3.	
Device Behaviour	T. C. S. L.	-C.	,	The state of the s	T. S.	
Additional Error Information	on (AMK Service	e) , , , , , , , , , , , , , , , , , , ,	ó	30	770	
92		.85	(9)		9	<
Error Removal	<u> </u>	The same	11/4		74,	720.

### 3603 'System diagnostics: AFP-PLC error'

Device	Malle						
Description	70.		750.	770	7.0		. 4
Class	Warning	The state of the s		77/1/	21/2		M.
Drive Behaviour							
Device Behaviour		9	9		3	9	
Additional Error Infor	rmation (AM	K Service)	Mo	The		The	
Ollio.	Info 1	1	AFP handshak	e timeout		(0	
- Alle	~9JE	2	Wrong AFP co	mmand block	~gille		
9,	7/02	3	Not allowed co	mmand	77/02		
	20	4	Inadmissible s	tate	7200		12/2
		5	Loop number t	oo high	-4		
9		6	Loop end with	out loop start	3	9)	
"Thou	2	7	Jump to invalid	l block No. (>41)		Tho.	
Mar.	100	8	Invalid mark	Mar.	_6	(B)	
all lo	27/10	9	Inadmissible p	arameter in the RF ma	cro		
Error Removal	92	·	90,	1950	190		

## 4.22 No. 3605 ... 3610 Safety Functions

## 3605 Safety - Invalid Parameterisation

Device	KW-R07 / -R17 safety module
Description	An invalid parameterisation was detected during the evaluation of the safety parameters, e.g. invalid values
Class	Error
Drive behaviour	The drive remains torque-free
Device behaviour	The safety monitoring does not switch to the operational state, i.e. the safety functions cannot be put into operation



13.X	123×		Ma.X		70×				
3605	Info1	7		Encoder error, sine encoder evaluation, monitoring channel 1					
	7	ann tillbaur	Info2	1	Prm6 'Sine encoder period' Specification for the sine encoder period too small (Prm6 < 16)				
ARD)			. Haid	2	Prm6 'Sine encoder period' Specification for the sine encoder period too large (Prm6 > 32768)				
Error rectification	20	erameter to be Prm6: 'S enerate a corr	sine enco	der pei	riod' et and load on the target device				
3605	Info1	16			e for the safety inputs, annel 1				
	140.01		Info2	1	Dynamic sampling impulse duration is too small Dynamic sampling impulse duration is too large				
	ing light	315	Info3	1	Input 1				
		"41'IDO"		3	Input 2 Input 3				
Walder of the state of the stat	• Ge	<ul><li>Prm83: '</li><li>Prm85: '</li></ul>	'SE3.1 dy 'SE3.2 dy	namic namic	sampling impulse duration' sampling impulse duration' sampling impulse duration' et and load on the target device				
3605	Info1	17			e for the safety inputs, annel 2				
	to Ugale	. 85	Info2	3	Dynamic sampling impulse duration is too small Dynamic sampling impulse duration is too large				
		MAN I Spar	Info3	1 2 3	Input 1 Input 2 Input 3				
Error rectification	• Pa	<ul><li>Prm73:</li><li>Prm77:</li><li>Prm79:</li><li>Prm83:</li></ul>	'SE1.1 dy 'SE1.2 dy 'SE2.1 dy 'SE2.2 dy	namic namic namic namic namic	sampling impulse duration' sampling impulse duration' sampling impulse duration' sampling impulse duration' sampling impulse duration'				



3605	Info1	18			ge for the safety inputs, nannel 1
	10200		Info2	2	Dynamic sampling period is too large
	4 (Q)	1/2	(5)	3	Dynamic sampling period is too small
	r.	72,4		5	Ratio between dynamic sampling period and impulse duration is too small
		3	Info3	1.8	Input 1
	igh.			2	Input 2
	1000 m		701	3	Input 3
Error rectification	Para	ameter to be	checked	<u></u>	% ⁰ 0°
	41.0	• Prm71: 'S	E1.1 dy	namic	sampling impulse duration'
	h	• Prm72: 'S	E1.1 dy	namic	sampling period'
		• Prm77: 'S	E2.1 dy	namic	sampling impulse duration'
	0	Prm78: 'S	E2.1 dy	namic	sampling period'
	alghe.	• Prm83: 'S	E3.1 dy	namic	sampling impulse duration'
	10170	• Prm84: 'S	E3.1 dy	namic	sampling period'
	• Gen	erate a corre	ect parar	neter s	set and load on the target device
3605	Info1	19			ge for the safety inputs, nannel 2
			Info2	2	Dynamic sampling period is too large
		3,		3	Dynamic sampling period is too small
	. officially		.00	5	Ratio between dynamic sampling period and impulse duration is too small
	109171		100/11	6	Invalid value of input level
	74 O.	14	Info3	1	Input 1
		2/2		2	Input 2
				3	Input 3
Error rectification	Para	ameter to be	checked	1:68	, A. V.
de	3197	<ul><li>Prm70: 'S</li></ul>			• "ad _{fr"} "ad _{fr"}
	XOICO		1,40		sampling impulse duration'
	1000		-/-/		sampling period'
	74 CO.	• Prm76: 'S			
	4				sampling impulse duration'
			•		sampling period'
	a	• Prm82: 'S	-		
	20/4°		=		sampling impulse duration'
	, office				sampling period'
	• Gen		100		set and load on the target device



70°	73.,		73.,		70°
3605	Info1	20		_	e for safety input selection,
	770	2010	-		annel 1
"141 igo,		" 141 igg.	Info2	1	Prm17 'SE3 emergency stop function': invalid value
W.		n.		2 4	Prm15 'SE1 safety function': invalid value
-1KB.D	-14.8.D		16.61	3	Prm16 'SE2 safety function': invalid value
Cape	KORONIO NO	. 10		4	Prm15 'SE1 safety function' and Prm17 'SE3 emergency stop function' same value
	×	Midpar		5	Prm16 'SE2 safety function' and Prm17 'SE3 emergency stop function' same value
The state of		ny,		6	Prm15 'SE1 safety function' and Prm16 'SE2 safety function' same value
Error rectification	• Pa	arameter to be	checked	<del></del> ::	
Thou .	"Thou	• Prm15: 'S	SE1 safe	ty funct	tion'
Car,	Car.	<ul><li>Prm16: 'S</li></ul>	SE2 safe	ty funct	tion'
.0	J.C				stop function'
3605	Info 4				e for safety input selection,
3005	Info1	22			annel 2
20		2.		1	
10.th	13.01		Info2	1	Prm17 'SE3 emergency stop function': invalid value
Carly	- Strick	-6	Bell .	2	Prm15 'SE1 safety function': invalid value
. 1800	, Sie	, GOBILL		3	Prm16 'SE2 safety function': invalid value
May.		May.		4	Prm15 'SE1 safety function' and Prm17 'SE3 emergency stop function' same value
r de	à		2	5	Prm16 'SE2 safety function' and Prm17 'SE3 emergency stop function' same value
Cale March	Carly Co	3	2 September 1	6	Prm15 'SE1 safety function' and Prm16 'SE2 safety function' same value
	ig _C	donino		16	Prm70 'SE1 input level': invalid value
The state of the s		The state of the s		17	Prm76 'SE2 input level': invalid value
9	9		6	18	Prm82 'SE3 input level': invalid value
Error rectification	• Pa	arameter to be	checked	:	
Co.	- Stron	<ul><li>Prm15: 'S</li></ul>	SE1 safe	ty funct	ion'
~ê	300	<ul><li>Prm16: 'S</li></ul>	SE2 safe	ty funct	ion'
71/01/2		• Prm17: 'S	SE3 eme	rgency	stop function'
" The		<ul> <li>Prm70 'S</li> </ul>	E1 input	level'	
		<ul> <li>Prm76 'S</li> </ul>	E2 input	level'	
9	9	<ul><li>Prm82 'S</li></ul>	E3 input	level'	
3605	Info1	23	Error m	nessag	e for safety output selection,
60	-01/0		1.77	_	annel 1
~3	'All'	Carlie Carlier	Info2	2	Prm7 'Commanding' and Prm8 'Output control':
. W. (Q).		"11,01			Invalid parameters Prm7 and Prm8
Marie		The same		3	Prm7 'Commanding':
					Invalid parameter Prm7
9	6		6	4	Prm8 'Output control':
2 Ho.	Also.		Thou.		Invalid parameter Prm8
Error rectification	• Pa	arameter to be	checked	<u></u> :	ALLE ALLE ALLE ALLE ALLE ALLE ALLE ALLE
?	J.	<ul> <li>Prm7: 'C</li> </ul>			
Tigh.		<ul><li>Prm8: 'O</li></ul>		-	
19.		-70.	•		The state of the s



3605	Info1	24		Error message for safety output selection, monitoring channel 2				
	Sport	in.	Info2	2	Prm7 'Commanding' and Prm8 'Output control': Invalid parameters Prm7 and Prm8	74%		
		" Ma		3	Prm7 'Commanding': Invalid parameter Prm7	17		
	150	<i>'</i> 3'		4.0.0	Prm8 'Output control': Invalid parameter Prm8			
Error rectification	• Par	Prm7: 'Co     Prm8: 'Oo	ommand	ing'	"High gray."	.45		



3605	Info1	25			es of the dynamic sampling of the safety outputs, annel 1
	10217	1080	Info2	1	Dynamic sampling period A1 exceeds maximum
	(6)	11/0,		2	Dynamic sampling period A1 drops below minimum
		n.		3	Dynamic sampling impulse duration A1 exceeds maximum
	JK8.19		JK0.[]	4	Dynamic sampling impulse duration A1 drops below minimum
	The Kape,	310	(B)	5	Dynamic sampling impulse duration A1 does not fit the 125 µs pattern
	'Hay i Qio			6	Dynamic sampling period < 10 x Dynamic sampling impulse duration
Mr.	R.		7	Prm87 'SA1 dynamic sampling': Invalid parameter Prm87	
	13.0		Info2	10	Dynamic sampling period A2 exceeds maximum
	in the state of th		27/2	11	Dynamic sampling period A2 drops below minimum
		SOUTH OF		12	Dynamic sampling impulse duration A2 exceeds maximum
M. M. M. M. C.	"Hypion		13	Dynamic sampling impulse duration A2 drops below minimum	
	3		6	14	Dynamic sampling impulse duration A2 does not fit the 125 µs pattern
	Elye.		STAD.	15	Dynamic sampling period < 10 x Dynamic sampling impulse duration
MAH I I I I I I I I I I I I I I I I I I I	,1000 IC		17	Prm93 'SA2 dynamic sampling': Invalid parameter Prm93	
	My Co	Info2	20	Dynamic sampling period Dyn exceeds maximum	
	The state of the s	27		21	Dynamic sampling period Dyn drops below minimum
	10.07		10.0	22	Dynamic sampling impulse duration Dyn exceeds maximum
	*OKSIGHT	, of	Sept.	23	Dynamic sampling impulse duration Dyn drops below minimum
	'ippens	71/Q ₂₀₁₁		24	Dynamic sampling impulse duration Dyn does not fit the 125 μs pattern
	,	star.		25	Dynamic sampling period < 10 x Dynamic sampling impulse duration
Error rectification	on • Pa	rameter to be • Prm87: 'S			ampling!
	"The				sampling impulse duration'
	xo ^r		· ·		sampling period'
	10300°		•		sampling impulse duration'
	(5),		•		sampling period'
		<ul><li>Prm93: 'S</li></ul>	•		
			•		sampling impulse duration'
	20		~~		sampling period'
	29/20		1/4-2		sampling impulse duration'
	"QC,c				sampling period'
	Manager Comment		-		c sampling impulse duration'
	S. C.			-	nic sampling period'
					nic sampling period nic sampling impulse duration'
				-	nic sampling impulse duration nic sampling period'
	A _C			-	et and load on the target device
	41.0		or haral	netel S	et and load on the target device
200	• All	/IK service	900		792

3605	Info1	26		Error messages of the dynamic sampling of the safety output monitoring channel 2					
	P. Galler		Info2	1	Dynamic sampling period A1 exceeds maximum				
	71/02			2	Dynamic sampling period A1 drops below minimum				
	Nag.	Try,		3	Dynamic sampling impulse duration A1 exceeds maximum				
		3.2		4	Dynamic sampling impulse duration A1 drops below minimum				
	"Italias"		, Horr	5	Dynamic sampling impulse duration A1 does not fit the 125 μs pattern				
	"Higgs"	3	24 B	6	Dynamic sampling period < 10 x Dynamic sampling impulse duration				
	Tra.	M		7	Prm87 'SA1 dynamic sampling': Invalid parameter Prm87				
	1/136	, (?)		8 0	Prm92 'SA1 output level': Invalid parameter Prm92				
HOLLIN	1000	whi	Info2	10	Dynamic sampling period A2 exceeds maximum				
	7000)		3000	11	Dynamic sampling period A2 drops below minimum				
	AND CO		712	12	Dynamic sampling impulse duration A2 exceeds maximum				
		9		13	Dynamic sampling impulse duration A2 drops below minimum				
	Carl H	300)		14	Dynamic sampling impulse duration A2 does not fit the 125 µs pattern				
	1031 <u>110</u> 1,		SOUTHOL.	15	Dynamic sampling period < 10 x Dynamic sampling impulse duration				
	NAU PO	di muu	712	17	Prm93 'SA2 dynamic sampling': Invalid parameter Prm93				
				18	Prm98 'SA2 output level': Invalid parameter Prm98				
	25/2/1		Info2	20	Dynamic sampling period Dyn exceeds maximum				
	1000		100	21	Dynamic sampling period Dyn drops below minimum				
Thu _t	" Page		41 Bay	22	Dynamic sampling impulse duration Dyn exceeds maximum				
	ny	Try.		23	Dynamic sampling impulse duration Dyn drops below minimum				
	. X+	2		24	Dynamic sampling impulse duration Dyn does not fit the 125 $\mu s$ pattern				
	KOLL Sigh.		10TC	25	Dynamic sampling period < 10 x Dynamic sampling impulse duration				
	" (Page)		719 Bur	28	Prm104 'SA1.2 output type': Invalid parameter Prm104				



Error rectification	• Pa	arameter to be	checked	d:	792,	79.Cd			
	O. C.	<ul><li>Prm87: '\$</li></ul>	SA1 dyna	amic sa	mpling'				
	, -	<ul><li>Prm88: '\$</li></ul>	SA1.1 dy	namics	sampling impulse duration'				
		<ul><li>Prm89: '\$</li></ul>	SA1.1 dy	namics	sampling period'				
			_		sampling impulse duration'				
			•		sampling period'				
	9	• Prm92: 'S	_						
	"Ara"	• Prm93: '\$	NEW .						
	Ton.		~00		sampling impulse duration'				
			•		sampling period'				
			-		sampling impulse duration'				
			-		sampling period'				
		• Prm98: '\$	-						
					sampling impulse duration				
	160.4			-	ic sampling period'				
	Caje)			•		n! Carry			
	(c),			-	ic sampling impulse duratio	11 110			
				-	ic sampling period'				
		• Prm104:			724.	~			
		enerate a corr MK service	ect parar	neter se	et and load on the target de	/ice			
3605	Info1	38	Error m	nessage	e of 'Safe encoder monitorin	a (SEM)'.			
	"Aro		monitoring channel 1						
	Co.	-6	Info2	1	Prm9 'Transition time in ca	se of standstill'			
		A STORE	"""	'	Prm9 > 60000 min	ise of starrastin			
		770		2	Prm10 'Reaction time in ca	ase of standstill'	7/4/		
		The same		- 44	Prm10 > 60000 min	200 01 012111401111			
Error rectification	• Pa	arameter to be	checked	1.	1				
21101100tilloution	9				case of standstill'				
	Mrs.				case of standstill'				
2005	- ST	_	-			(OEM)			
3605	Info1	39			e of 'Safe encoder monitorin	g (SEM)',			
		. 430	<b>—</b>		annel 2	<u> </u>			
		The same	Info2	1 3	Prm9 'Transition time in ca	se of standstill'			
		20		14	Prm9 > 60000 min		20		
				2	Prm10 'Reaction time in ca	ase of standstill'			
	12.5.		73.5,		Prm10 > 60000 min	702.			
Error rectification	• Pa	arameter to be	checked	d:	1975)	190			
	0	<ul> <li>Prm9: 'Tr</li> </ul>	ansition	time in	case of standstill'				



Info1 1	01			e for the stop function 'Safe stop 1 (SS1)' conitoring  Not to be evaluated  Prm21 'SS1 safe speed standstill window' Prm21 exceeds the maximum permissible value (Prm21 > 60000 1/min)
abalic mateks of		- 20	7	Not to be evaluated  Prm21 'SS1 safe speed standstill window'  Prm21 exceeds the maximum permissible value  (Prm21 > 60000 1/min)
ipajionalike d		inioz	7	Prm21 'SS1 safe speed standstill window' Prm21 exceeds the maximum permissible value (Prm21 > 60000 1/min)
PORTO DE PARO			8	
100 JUG		- AC	E. C.	Prm21 'SS1 safe speed standstill window' Prm21 drops below the minimum permissible value (Prm21 < -60000 1/min)
200		Ramp	monito	
(0)		Info3	1	Actual value exceeds maximum permissible value (60000 1/min)
, 14º D			2	Prm21 'SS1 safe speed standstill window': Prm21 drops below the minimum permissible value (Prm21 < -60000 1/min)
dpattoman.		1300 More	3	Prm21 'SS1 safe speed standstill window': Prm21 exceeds the maximum permissible value (Prm21 > 60000 1/min)
, Q			4	Prm21 'SS1 safe speed standstill window': Limits of the speed standstill window have the same value (Prm21 = 0)
40alionatyl		:Ollichi	5	Prm67 'SMS safe maximum speed': Prm67 exceeds maximum permissible value (Prm67 > 60000 1/min)
		Wat is	6	Prm20 'SS1 brake ramp time': Prm20 = 0
, dhe d			7 Negari	Prm 67/Prm 20: Relation of maximum speed to deceleration ramp n/t too small. (Ramp too flat) (only monitoring channel 1)
dpartour		1 g Saliton	10	Prm20 'SS1 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
, K	G.		11 3/40.71	Prm20 'SS1 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
dpanton's		18 BUILDER	13	Prm 67/Prm 20: Relation of maximum speed to ramp time wrong (only monitoring channel 2)
	dpartousphe of	destonable of whi	dbattoriative.di	3 4 5 6 7



3605	Info 4	100	LEile e e		a fautha atan function (Cafa atan 2 (CC2))			
3005	Info1	102	Error message for the stop function 'Safe stop 2 (SS2)'  Movement monitoring					
	Walle.	Major.	Info2	0				
	(Q)	4100	111102		Not to be evaluated			
		are.		1 1	Prm26 'SS2 safe speed standstill window' Speed limits are identical (Prm26 = 0)			
	13.0		130	2	Prm27 'SS2 safe position standstill window' Position limits are identical (Prm27 = 0)			
	Participant Participant	ballof	15 CT	7	Prm26 'SS2 safe speed standstill window' Prm26 exceeds the maximum permissible value (Prm26 > 60000 1/min)			
	.07	anni Or		8	Prm26 'SS2 safe speed standstill window' Prm26 drops below the minimum permissible value (Prm26 < -60000 1/min)			
	9		Ramp	monito	ring			
	HARON WHINIGHOUS STANDER STANDERS STAND	_<	Info3	1	Actual value exceeds maximum permissible value (60000 1/min)			
		"MHIQDOING.		2	Prm26 'SS2 safe speed standstill window': Prm26 drops below the minimum permissible value (Prm21 < -60000 1/min)			
		2	16.6	3	Prm26 'SS2 safe speed standstill window': Prm26 exceeds the maximum permissible value (Prm21 > 60000 1/min)			
		, w.idbaltof	35	4	Prm26 'SS2 safe speed standstill window': Limits of the speed standstill window have the same value (Prm26 = 0)			
		n,	6	5	Prm67 'SMS safe maximum speed': Prm67 exceeds maximum permissible value (Prm67 > 60000 1/min)			
	Carly Co.	-50	Pylo.	6	Prm25 'SS2 brake ramp time': Prm25 = 0			
	'Buing	MAN TO BUTE		7	Prm 67/Prm 25: Relation of maximum speed to deceleration ramp n/t too small. (Ramp too flat) (only monitoring channel 1)			
	, sites il		21/40.121	10	Prm25 'SS2 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)			
	.mm.ldbalte	HAM I GOOT OF		11	Prm25 'SS2 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)			
	16.13		100	13	Prm67/Prm25: Relation of maximum speed to ramp time wrong (only monitoring channel 2)			
Error rectificatio	igosite .	<ul><li>Prm 27: '5</li><li>Prm 67: '5</li></ul>	SS2 brak SS2 safe SS2 safe SMS safe	ce ramp speed position maxir	l standstill window' on standstill window'			



3605	Info1	103	Error m	nessag	e for the safety function 'Safe operating stop (SOS)'						
3101	101	NOC.			Movement monitoring						
	A. dbar	142	Info2	1	Prm28 'SOS safe speed standstill window' Speed limits are identical (Prm 28 = 0)						
20,		24		2	Prm 29 'SOS safe position standstill window' Position limits are identical (Prm 29 = 0)						
	, Offisial He St.	3,	,of	7	Prm28 'SOS safe speed standstill window' Prm28 exceeds the maximum permissible value (Prm28 > 60000 1/min)						
	W Qpane	und	3335	8	Prm28 'SOS safe speed standstill window' Prm28 drops below the minimum permissible value (Prm28 < -60000 1/min)						
Error rectification	Parameter to be checked:     Prm 28: 'SOS safe speed standstill window'     Prm 29: 'SOS safe position standstill window'										
·0/17	• Ger	ierate a corre	ect paran	neter s	et and load on the target device						



3605	Info1	104	Error message for the safety function 'Safe speed range 1 (SSR1)'					
Z.	*O	10%			nitoring			
	Jpan.	MAN I GOOD		1	Prm33 'SSR1 safe limit speed 1'; Prm34 'SSR1 safe limit speed 2': Speed limits are identical (Prm33 = Prm34)			
	HARD SHEET		R. HO.C.	7	Prm33 'SSR1 safe limit speed 1' Prm33 exceeds the maximum permissible value ( Prm33  > 60000 1/min)			
. Wichaile Vie	, wildoutof		8	Prm34 'SSR1 safe limit speed 2' Prm34 exceeds the maximum permissible value ( Prm34  > 60000 1/min)				
		No.	Ramp	monitor	ing white the same of the same			
	180		Info3	1	Actual value exceeds maximum permissible value (60000 1/min)			
	- Bitc Catcher	a dispersion	2 Car	2	Prm33 'SSR1 safe limit speed 1': Prm33 exceeds the maximum permissible value ( Prm33  > 60000 1/min)			
	Who of while it is the of white it is the of the state of	MAN I GO		3	Prm34 'SSR1 safe limit speed 2': Prm34 exceeds the maximum permissible value ( Prm34  > 60000 1/min)			
		SCHOO!	4	Prm33 'SSR1 safe limit speed 1'; Prm34 'SSR1 safe limit speed 2': Limits of the speed standstill window have the same value (Prm33 = Prm34)				
		Mary 190	Wa S	5	Prm67 'SMS safe maximum speed': Prm67 exceeds maximum permissible value (Prm67 > 60000 1/min)			
				6	Prm32 'SSR1 brake ramp time' Prm32 = 0			
	grander of the second	Widbalto,	\$\text{\$\infty}\$	7	Prm67/Prm32: Relation of maximum speed to deceleration ramp n/t to small. (Ramp too flat) (only monitoring channel 1)			
		nn.	W0.61	10	Prm32 'SSR1 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)			
es, "High grap (See, )	.w.fdbaltof	8	11	Prm32 'SSR1 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)				
		M.	<i>A</i>	13	Prm67/Prm32: Relation of maximum speed to ramp time (only monitoring channel 2)			
Error rectification	De Hill Copy		SSR1 bra SSR1 sat SSR1 sat SMS safe	ake ram fe limit s fe limit s e maxim	np time' speed 1'			



3605	Info1	105	Error m	nessage	e for the safety function 'Safe direction positive (SDIp)'			
	, KOTT				onitoring			
	900gr		Info2	1	Prm64 'SDI safe speed standstill window';			
	4	420	1		Prm67 'SMS safe maximum speed':			
		the.			Speed limits are identical (Prm67 = Prm64)			
		_		7	Prm64 'SDI safe speed standstill window':			
	1/2	3,5,		9 ₁₀ 5	Prm64 exceeds the maximum permissible value ( Prm64  > 60000 1/min)			
	Ollion		.00	8	Prm67 'SMS safe maximum speed':			
	diana		Spanner.		Prm67 exceeds the maximum permissible value ( Prm67  > 60000 1/min)			
	2,	244	Ramp	monito	ring			
			Info3	0	Not to be evaluated			
		9		5	Prm67 'SMS safe maximum speed':			
	Tate!	9.		E. C.	Prm67 exceeds maximum permissible value (Prm67 > 60000 1/min)			
Error rectification	• Pai	rameter to be	checked	l:	The State			
	900	• Prm 64:	SDI safe	speed	standstill window'			
	17	<ul><li>Prm 67: '</li></ul>	SMS safe	e maxir	mum speed'			
73,	• Ge	nerate a corre	ect paran	neter se	et and load on the target device			
3605	Info1	106	Error m	nessade	e for the safety function 'Safe direction negative (SDIn)'			
Max		3 × .		Movement monitoring				
	The state of the s		Info2	1	Prm64 'SDI safe speed standstill window';			
	2/10/		11102		Prm67 'SMS safe maximum speed':			
	90,0		90,0		Speed limits are identical (Prm67 = Prm64)			
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	27.	12/2		7	Prm67 'SMS safe maximum speed':			
		21			Prm67 exceeds the maximum permissible value			
		2			( Prm67  > 60000 1/min)			
	84	38		8	Prm64 'SDI safe speed standstill window':			
	"Click,		200	20,	Prm64 exceeds the maximum permissible value			
	"Ito"		_30		( Prm64  > 60000 1/min)			
	900		Ramp	monitor	ring			
	17.	The same	Info3	0	Not to be evaluated			
		24		5	Prm67 'SMS safe maximum speed':			
		2		2	Prm67 exceeds maximum permissible value			
108,	N-	38.	<u> </u>	79.5,	(Prm67 > 60000 1/min)			
Error rectification	• Pai	rameter to be			VI20.			
	"TOU			-	standstill window'			
	9p.				mum speed'			
	• Ge	nerate a corre	ect paran	neter se	et and load on the target device			
3605	Info1	108	Error m	nessage	e for the safety function 'Safe maximum speed (SMS)'			
		2	Movem	ent mo	onitoring			
	84	3×	Info2	10.8	Prm67 'SMS safe maximum speed':			
	"Caid,		200	2.	Speed limits are identical (Prm67 = 0)			
	"TION"		-310T	7	Prm67 'SMS safe maximum speed':			
	9pg		9500		Prm67 exceeds the maximum permissible value			
	14	W.			(Prm67 > 60000 1/min)			
		The.		8	Prm67 'SMS safe maximum speed':			
		6		1	Prm67 drops below the minimum permissible value			
10.X	N.	3×		10 X	(Prm67 < -60000 1/min)			
Error rectification	• Pai	rameter to be						
		D	0110					
	10				mum speed' et and load on the target device			



3605	Info1	109	Error message for the safety function 'Safe speed range 2 (SSR2)'					
1.	100 P	x0			nitoring (and an analysis and			
	Phys.	MANA I GOOD	Info2	1 25	Prm39 'SSR2 safe limit speed 1'; Prm40 'SSR2 safe limit speed 2': Speed limits are identical (Prm39 = Prm40)			
	"IGHE O		KE HER PE	7	Prm39 'SSR2 safe limit speed 1': Prm39 exceeds the maximum permissible value ( Prm39  > 60000 1/min)			
		Wildparting.		8	Prm40 'SSR2 safe limit speed 2': Prm40 exceeds the maximum permissible value ( Prm40  > 60000 1/min)			
		21/2	Ramp	monitor	ing Man Man			
	ġ)		Info3	1	Actual value exceeds maximum permissible value (60000 1/min)			
	HANN TO THE WANT TO STATE OF THE STATE OF TH	all of	S. A.	2	Prm39 'SSR2 safe limit speed 1': Prm39 exceeds the maximum permissible value ( Prm39  > 60000 1/min)			
		May 1900		3	Prm40 'SSR2 safe limit speed 2': Prm40 exceeds the maximum permissible value ( Prm40  > 60000 1/min)			
			ECHO!	4	Prm39 'SSR2 safe limit speed 1'; Prm40 'SSR2 safe limit speed 2': Limits of the speed standstill window have the same value (Prm39 = Prm40)			
		MANIED.		5	Prm67 'SMS safe maximum speed': Prm67 exceeds the maximum permissible value (Prm67 > 60000 1/min)			
	. No. O.		NO. 9	6	Prm38 'SSR2 brake ramp time': Prm38 = 0			
	Page for,	.wiobaltof		7	Prm38 'SSR2 brake ramp time'; Prm67 'SMS safe maximum speed': Relation of maximum speed to deceleration ramp n/t too small. (Ramp too flat) (only monitoring channel 1)			
	Wed.	the state of the s	RAD P	10	Prm38 'SSR2 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)			
	Ser,			11	Prm38 'SSR2 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)			
	is faithed	, c	Refer of	13	Prm38 'SSR2 brake ramp time'; Prm67 'SMS safe maximum speed': Relation of maximum speed to ramp time wrong (Prm67/Prm38) (only monitoring channel 2)			
Error rectification	• Pa	<ul><li>Prm 38: '</li><li>Prm 39: '</li><li>Prm 40: '</li><li>Prm 67: '</li></ul>	SSR2 br SSR2 sa SSR2 sa	ake ran fe limit fe limit	speed 1'			
	• Ge				num speed' et and load on the target device			



3605	Info1	110			e for the safety function 'Safe speed range 3 (SSR3)'	
	all to		- 20		nitoring	
	D. Whi	Info2	1	Prm45 'SSR3 safe limit speed 1'; Prm46 'SSR3 safe limit speed 2': Speed limits are identical (Prm45 = Prm46)		
Spatternativa of		7	Prm45 'SSR3 safe limit speed 1': Prm45 exceeds the maximum permissible value ( Prm45  > 60000 1/min)			
	4	1 Balton	8	Prm46 'SSR3 safe limit speed 2': Prm46 exceeds the maximum permissible value ( Prm46  > 60000 1/min)		
	E.	21/2/2	Ramp	monitor	ing M	
		6	Info3	1	Actual value exceeds maximum permissible value (60000 1/min)	
	THE THE THE STATE OF THE STATE	ş-**	- Willow	2	Prm45 'SSR3 safe limit speed 1': Prm45 exceeds the maximum permissible value ( Prm45  > 60000 1/min)	
	444 G.	man	138	3	Prm46 'SSR3 safe limit speed 2': Prm46 exceeds the maximum permissible value ( Prm46  > 60000 1/min)	
Carly of	Ġ.	.6	4	Prm45 'SSR3 safe limit speed 1'; Prm46 'SSR3 safe limit speed 2': Prm45 = Prm46		
		130011011	5	Prm67 'SMS safe maximum speed': Prm67 exceeds the maximum permissible value (Prm67 > 60000 1/min)		
N	2,	7774,	An,	6	Prm44 'SSR3 brake ramp time': (Prm44 = 0)	
	Wallettatike	3	Daylori'	7.2	Prm44 'SSR3 brake ramp time'; Prm67 'SMS safe maximum speed': Relation of maximum speed to deceleration ramp n/t too small. (Ramp too flat) (only monitoring channel 1)	
		e sur		10	Prm44 'SSR3 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)	
	"Dalle Lugh	×	Millor	mitori	11	Prm44 'SSR3 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
		d) hay	73.00	13	Prm44 'SSR3 brake ramp time'; Prm67 'SMS safe maximum speed': Relation of maximum speed to ramp time wrong (Prm67/Prm44) (only monitoring channel 2)	
Error rectification	in a paliton.	<ul><li>Prm 46:</li><li>Prm 67:</li></ul>	'SSR3 br 'SSR3 sa 'SSR3 sa 'SMS saf	ake ran ife limit ife limit e maxin	speed 1'	



3605	Info1	111	Error m		for the safety function 'Safe speed range 4 (SSR4)'
3003	inio	1111			nitoring
	Daile	"MM idpaine		1	Prm51 'SSR4 safe limit speed 1'; Prm52 'SSR4 safe limit speed 2':
		27.		- 19,	Speed limits are identical (Prm51 = Prm52)
	13H2.91		Jesep.	7	Prm51 'SSR4 safe limit speed 1': Prm51 exceeds the maximum permissible value ( Prm51  > 60000 1/min)
, Middelle je	"ilipalito		8	Prm52 'SSR4 safe limit speed 2': Prm52 exceeds the maximum permissible value ( Prm52  > 60000 1/min)	
		The same	Rampı	monitor	ing and an area and a second an
	6		Info3	1	Actual value exceeds maximum permissible value (60000 1/min)
	allo (Stoko r	JIO S	S. Ho.	2	Prm51 'SSR4 safe limit speed 1': Prm51 exceeds the maximum permissible value ( Prm51  > 60000 1/min)
	Maril Manufillian Manufillian	MAN I GOST		3	Prm52 'SSR4 safe limit speed 2': Prm52 exceeds the maximum permissible value ( Prm52  > 60000 1/min)
			rejko ji	4	Prm51 'SSR4 safe limit speed 1'; Prm52 'SSR4 safe limit speed 2': Prm51 = Prm52
, Highing Co.	Widging,		5	Prm67 'SMS safe maximum speed': Prm67 exceeds the maximum permissible value (Prm67 > 60000 1/min)	
	Why is	222	37,	6	Prm50 'SSR4 brake ramp time': Prm50 = 0
	odite takka di	io di la	Bellia of	7	Prm50 'SSR4 brake ramp time'; Prm67 'SMS safe maximum speed': Relation of maximum speed to deceleration ramp n/t too small. (Ramp too flat) (only monitoring channel 1)
		enhylio,		10	Prm50 'SSR4 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
	alle hately and	Salito	Sigher S.	11	Prm50 'SSR4 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
TO STANFORD MANAGED IN THE STANFORD STA	New Willy	200	13	Prm50 'SSR4 brake ramp time'; Prm67 'SMS safe maximum speed': Relation of maximum speed to ramp time wrong (Prm67/Prm50) (only monitoring channel 2)	
Error rectification	patic he		SSR4 bra SSR4 sa SSR4 sa SMS safe	ake ram fe limit fe limit e maxim	speed 1'



3605	Info1	112			e for the safety function 'Safely-limited speed 1 (SLS1)'
	allio.		Movem	ent mo	nitoring
	Thy Clos	2.	Info2	1	Prm57 'SLS1 safe limit speed': Speed limits are identical (Prm51 = Prm52)
	20	200		7	Prm57 'SLS1 safe limit speed':
		ġ.		20	Prm57 exceeds the maximum permissible value (Prm57 > 60000 1/min)
				8	Prm57 'SLS1 safe limit speed':
	: California		Saltote		Prm57 drops below the minimum permissible value (Prm57 < -60000 1/min)
	" (O).		Ramp	monito	ing w
	The same of the sa	My	Info3	1	Actual value exceeds maximum permissible value (60000 1/min)
	6	9		2	Prm57 'SLS1 safe limit speed':
	all dish			Cho.	Prm57 exceeds the maximum permissible value (Prm57 > 60000 1/min)
	This applied	22	A Spring	3	Prm57 'SLS1 safe limit speed': Prm57 drops below the minimum permissible value (Prm57 < -60000 1/min)
	The state of the s	274		4	Prm57 'SLS1 safe limit speed':
raitonatika di	ġ.		.30	Limits of the speed window have the same value (Prm57 = 0)	
			5	Prm67 'SMS safe maximum speed':	
		Solliford.		Prm67 exceeds the maximum permissible value (Prm67 > 60000 1/min)	
	th th	A Prince	24.50	6	Prm56 'SLS1 brake ramp time': Prm56 = 0
				7	Prm56 'SLS1 brake ramp time';
		9		20	Prm67 'SMS safe maximum speed':
	rough		*OF	gho.	Relation of maximum speed to deceleration ramp n/t too small. (Ramp too flat) (only monitoring channel 1)
	10013 C		3030	10	Prm56 'SLS1 brake ramp time':
	The state of the s	ani.	21/2		Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
		6		11	Prm56 'SLS1 brake ramp time':
	- OURIGH		-010	ye.	Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
	~allie		Carrier .	13	Prm56 'SLS1 brake ramp time';
	7 (0)		7.502	. •	Prm67 'SMS safe maximum speed':
	147	7 22			Relation of maximum speed to ramp time wrong (Prm67/Prm56) (only monitoring channel 2)
Error rectification	• Par	ameter to b	e checked	: NO.?	70%
1924	797		: 'SLS1 bra		np time'
	1000		: 'SLS1 sa		
	40gr				num speed'
	• Gen				et and load on the target device



Info1	113	Frror m	essage	e for the safety function 'Safely-limited speed 2 (SLS2)'
No.	, xof			
Bally	Majur.	_		Prm62 'SLS2 safe limit speed':
O.	71,0			
	The.		- 25	Speed limits are identical (Prm62 = 0)
	-		/	Prm62 'SLS2 safe limit speed':
9		8		Prm62 exceeds the maximum permissible value
143.4		163.4		(Prm62 > 60000 1/min)
City.		20	8	Prm62 'SLS2 safe limit speed':
1001101.	1031110			Prm62 drops below the minimum permissible value (Prm62 < -60000 1/min)
9	41.00	Ramp r	nonitor	ing N
	My,	Info3	1 35	Actual value exceeds maximum permissible value (60000 1/min)
9		6	2	Prm62 'SLS2 safe limit speed':
"The.		Thou.		Prm62 exceeds the maximum permissible value
Car,	_<	(Dr.)		(Prm62 > 60000 1/min)
allo.	"120,		3	Prm62 'SLS2 safe limit speed':
900	1900			Prm62 drops below the minimum permissible value
	"Tay.		20	(Prm62 < -60000 1/min)
	27		4	Prm62 'SLS2 safe limit speed':
18.0		100		Limits of the speed window have the same value (Prm62 = 0)
ight.		The same	5	Prm67 'SMS safe maximum speed':
*0100	*05			Prm67 exceeds the maximum permissible value
Pagin.	10 State			(Prm67 > 60000 1/min)
0,	71,02		6	Prm61 'SLS2 brake ramp time':
	The state of the s		11/2	Prm61 = 0
			7	Prm61 'SLS2 brake ramp time';
6		6		Prm67 'SMS safe maximum speed':
" We Carlot Mar.	, ₁₀ 5	Egye,		Relation of maximum speed to deceleration ramp n/t too small. (Ramp too flat) (only monitoring channel 1)
702	30%		10	Prm61 'SLS2 brake ramp time':
9	" Alico			Current deceleration ramp deviates from the permissible
	ny,		44	range (only monitoring channel 2)
- 61		- 6	11	Prm61 'SLS2 brake ramp time':
Carly For.	-30	Mys.		Current deceleration ramp deviates from the permissible range
710	"7 ₁₀ ,		40	(only monitoring channel 2) Prm61 'SLS2 brake ramp time';
920	1900		13	
	any.		The same	Prm67 'SMS safe maximum speed': Relation of maximum speed to ramp time wrong
				(Prm 67/Prm 61) (only monitoring channel 2)
n P	arameter to be	checked	:	10°, 10°,
City.				np time'
10				-6.
7097				
-1	apolito ligar	n • Parameter to be • Prm 61: '3 • Prm 62: '3 • Prm 67: '3	Ramp info3  Parameter to be checked Prm 61: 'SLS2 bra Prm 62: 'SLS2 sai Prm 67: 'SMS safe	Movement mode



3605	Info1	Info1 114	Error m	nessag	e for the safety function 'Safely-limited increment (SLI)'
	101		Movem	nent mo	onitoring
	Thy Open	, A	Info2	1	Prm67 'SMS safe maximum speed': Speed limits are identical (Prm67 = 0)
		j) M		2	Prm65 'SLI Safely limited position change 1'; Prm66 'SLI Safely limited position change 2' Position limits are identical (Prm65 = Prm66)
	"altomatel		~allion	7	Prm67 'SMS safe maximum speed': Prm67 exceeds the maximum permissible value (Prm67 > 60000 1/min)
		und	8	8	Prm67 'SMS safe maximum speed': Prm67 drops below the minimum permissible value (Prm67 < -60000 1/min)
Error rectification	Lallo Talek	<ul><li>Prm 66: '5</li><li>Prm 67: '5</li></ul>	SLI Safe SLI Safe SMS safe	ly limite ly limite e maxi	ed position change 1' ed position change 2' mum speed' et and load on the target device

#### 3606 Safety - Error During Operation

<ul> <li>Error in a monit</li> </ul>	oring during	operation			
Device	KW-R07 / -	R17 safety m	odule	90	Lan.
Description	A monitoring	ng has detect	ed a dev	iation f	rom a limit value during operations
Class	Error		90,0		180
Drive behaviour	See 'Error	reaction' towa	ards the	individu	ual additional information Info1
Device behaviour		20,			1s, 1s, 1s,
Additional information	(Info AMK c	ustomer ser	vice)	9	8
3606	Info1	3	Error monito		es of the encoder- / resolver monitorings, annel 1
	"Panto".		Info2	1	Circle radius of the resolver traces too small (resolver evaluation)
	A 50	and a	The state of	2	Circle radius of the resolver traces too great (resolver evaluation)
Error reaction		ase of an error	or in the	encode	er / resolver monitorings, 'Save torque off (STO)' follows as
Error rectification	000	eck paramete eck encoder /			ct encoder type was set s and wiring
3606	Info1	4			es of the encoder- / resolver monitorings, annel 2
		m	Info2	1	Circle radius of the resolver traces too small (resolver evaluation)
		3.2		2	Circle radius of the resolver traces too great (resolver evaluation)
Error reaction		ase of an error	or in the	encode	er / resolver monitorings, 'Save torque off (STO)' follows as
Error rectification		eck paramete eck encoder /			ct encoder type was set s and wiring



73°	13.	_	10.7		10 ²
3606	Info1	5		nessage ring cha	es of the encoder- / resolver monitorings, annel 1
		Muhidoor	Info2	2	Circle radius of the sine traces too great (sine encoder detection)  Circle radius of the sine traces too small (sine encoder detection)
	act of		HAR.D	3	Difference of the quadrants between traces and counter value greater than 1 (sine encoder detection)
Error reaction		ase of an err or reaction	ror in the	encode	er / resolver monitorings, 'Save torque off (STO)' follows as
Error rectification	• Che	-5.0			ct encoder type was set s and wiring
3606	Info1	6			es of the encoder- / resolver monitorings, annel 2
	SC.	×81KC	Info2	1	Circle radius of the sine traces too great (sine encoder detection)
		"My ion		2	Circle radius of the sine traces too small (sine encoder detection)
	, o.d.		13.6	3	Difference of the quadrants between traces and countervalue greater than 1 (sine encoder detection)
Error reaction		ase of an err	ror in the	encode	er / resolver monitorings, 'Save torque off (STO)' follows as
Error rectification	• Che	eck paramete			ct encoder type was set is and wiring
3606	Info1	7			es of the encoder- / resolver monitorings
	Call No.		Info2	3	Difference between 2 position values too great (sine encoder evaluation)
Error reaction		ase of an err	or in the	encode	er / resolver monitorings, 'Save torque off (STO)' follows as
Error rectification		10.5			ct encoder type was set s and wiring
3606	Info1	13	Error m	nessage	es monitoring cross-communication
	Cald Karls.		Info2	1 2	monitoring of the other monitoring channel failed Status difference between 2 monitoring channels
		'Spanic	37	3	detected => STO Status difference between 2 monitoring channels
		nay.		4	detected => SS1  Status difference between 2 monitoring channels detected => SS2
	City Cit		SERE!	5	Status difference between monitoring channels detecte Switch-off threshold position has been exceeded. Position difference between monitoring channels is too
		Walah idibiliti		7	great  Velocity switch-off threshold has been exceeded.  Position difference between monitoring channels is too great
				8	Invalid specification of emergency stop bit
Error reaction		ase of an err	ror in the	cross c	communication, 'Save torque off (STO)' follows as error
Error rectification	• Info	2 = 1, 2, 3, 4 ameter to be • Info2 = 6	checked : Prm2 'S	d: Switch-c	off threshold position' off threshold velocity'



3606	Info1	18			es of the input monitorings, annel 1
	109/10		Info2	1	No dynamic sampling pulse detected at input
	14 (O.	in a	9	4	Measured dynamic sampling period is too small
		The same	Info3	1	Input 1
				2	Input 2
	N.O.	15,		3	Input 3
Error reaction	• In ca	ase of an erro	or in the	input n	nonitorings, 'Save torque off (STO)' follows as error reaction
Error rectification	• Che • Che • Che	eck wiring of t eck correctne eck paramete	the input ss of dyr risation	s namic s of dyna	- California de la Cali
3606	Info1	19			es of the input monitorings, annel 2
	alto.		Info2	1	No dynamic sampling pulse detected at input
	1900	.33	350	4	Measured dynamic sampling period is too small
	2,	7642	Info3	1	Input 1
				2	Input 2
		ġ)		3	Input 3
Error reaction	• In ca	ase of an erro	or in the	input n	nonitorings, 'Save torque off (STO)' follows as error reaction
3606	• Har	2/4	Error m	(e.g. b	es of the output monitorings,
	Care.				annel 1
	A GO BILLO	and of	Info2	1	Value of a safety output that has been read back not equal to the specification Internal plausibility monitoring; possibly short circuit of the outputs.
	K	Ŝ.	Info2	1	Error safety output 1: Signal that has been read back does not match the specification
	Palifoliusted.		: OBLITCH	2	Error safety output 2: Signal that has been read back does not match the specification
Error reaction		ase of an erro	or in the	output	monitorings, 'Save torque off (STO)' follows as error
Error rectification	• Che	ck wiring of t	the outpu	uts	
	• Che	eck correctne eck paramete dware possit	risation	of dyna	amic sampling
	_ A Har	THE PACELL	111/1/12/11/11/1/		



NO.X	M3 X		NO.X		
3606	Info1	28			es of the output monitorings, nannel 2
		MAN I DOL	Info2	1	Value of a safety output that has been read back not equal to the specification Internal plausibility monitoring; possibly short circuit of the outputs.
	Veldy o' by		Info2	1	Error safety output 1: Signal that has been read back does not match the specification
	Ċ,	W. Idparto		2	Error safety output 2: Signal that has been read back does not match the specification
Error reaction		case of an err	or in the	output	monitorings, 'Save torque off (STO)' follows as error
Error rectification 3606	• Ch	eck wiring of leck correctne leck paramete irdware possi	ess of dyr erisation bly faulty	namic s of dyna //chec	amic sampling
3000	IIIIO I	36			nannel 1
			Info2	4	Prm10 'Reaction time in case of standstill' was exceeded
Error reaction		case of an err	or in the	encode	er standstill monitoring, 'Save torque off (STO)' follows as
Error rectification	• Mc	e Safety man ove drive estart device	ual; func	tional s	safety (203446), 'Safe Encoder Monitoring (SEM)'
3606	Info1	39			es of the 'Safe encoder monitoring (SEM)', nannel 2
	20		Info2	4	Prm10 'Reaction time in case of standstill' was exceeded
Error reaction		case of an err	or in the	encode	er standstill monitoring, 'Save torque off (STO)' follows as
Error rectification	• Se		ual; func	tional s	safety (203446), 'Safe Encoder Monitoring (SEM)'
3606	Info1	52	Error m	nessag	es of the hardware monitorings
	13.0		Info2	1	Overvoltage in the 1.8 V supply voltage
	201		Self.	2	Undervoltage in the 1.8 V supply voltage
	O. C.	30		3	Overvoltage in the 3.3 V supply voltage
	,-	Man.		4	Undervoltage in the 3.3 V supply voltage
		"His		5	Overvoltage in the 1.5 V reference voltage
		1120		6	Undervoltage in the 1.5 V reference voltage
Error reaction		case of an err	or in the	hardwa	are monitorings, 'Save torque off (STO)' follows as error
Error rectification	• Ha	rdware possi	bly faulty	-> che	eck

3606	Info1	70	Error m	nessage	es of the	FSoE	E handling
	"ALOU"		Info2	3	monito	ring c	channel 1
	900		90,0		Info3	100	Internal system error, pointer error
	2)	und,			Nag	2	Internal system error, access in non- permitted area
	-Majdhe	ġ.		elka o		3	Resulting error that occurs when the transmission telegram of the complementary channel differs from the own transmission telegram
	H dougo	125	Ballic.			4	Internal system error occurred while generating the CRC values (resulting error)
		212			212	5	Faulty status in FSoE state machine
				4	monito	ring c	channel 2
		,Q			Info3	1	Internal system error, pointer error
	- Officials		.65	S. C.		2	Internal system error, access in non- permitted area
	ig Opposite	run'i	32000		MA	3	Resulting error that occurs when the transmission telegram of the complementary channel differs from the own transmission telegram
	"H ₂	ġ.		140 (S)		4	Internal system error occurred while generating the CRC values (resulting error)
	allian,		~6	2.,		5	Faulty status in FSoE state machine
	" gogge		Info2	6			Vatchdog has expired, i.e. no new FSoE received within the Watchdog time
	2.	The state of			Info3	3	monitoring channel 1
						4	monitoring channel 2
Error reaction	• In ca	ase of an erro	or in the	FSoF n	nonitorin	as. 'S	Save torque off (STO)' follows as error reaction
Error rectification	• Che	eck FSoE con 2 = 1, 2, 4, 5:	nmunica AMK se	tion rvice			check safety configuration
3606	Info1	75	(2)	nessage	es of the		ware monitorings, switch-off path
			Info2	1	1	ction	of the line driver L
	813	3.		2			of the line driver H
	"OLIGICAL		1000	3			iver status drivers not identical
	William,	24.	Banz	4			iver control ort circuit control line to supply
		nu.		5	100		ivers' control ort circuit control line to GND
	N.S	ġ.		7			al data handling check of control data
	.toftateh		xoff ³	8			al data handling check of test data
Error reaction		ase of an erro	or in the	hardwa			gs, 'Save torque off (STO)' follows as error
	icac	50011					



X	A.C.	1	N.O.		The state of the s
3606	Info1	76			es of the hardware monitorings, switch-off path annel 2
		1000	Info2	1	Malfunction of the line driver L
		14/10		2	Malfunction of the line driver H
		n.		3	Error line driver status status of the drivers not identical
	"Though		143.D	4	Error line driver control checking short circuit control line to supply
	Car,	auto	(g).	5	Error line drivers' control checking short circuit control line to GND
		741'Q00		7	Error internal data handling plausibility check of control data
		No.		8	Error internal data handling plausibility check of test data
Error reaction		case of an err	or in the	hardwa	are monitorings, 'Save torque off (STO)' follows as error
Error rectification		rdware possil K service	bly faulty	-> che	ck
3606	Info1	101	Error m	nessage	e of the stop function 'Safe stop 1 (SS1)'
		The state of the s	Info2	0 35	Not to be evaluated
			Ramp	monitor	ı
			Info3	0	Not to be evaluated
	Caiche	.6		1	Actual value exceeds maximum permissible value (60000 1/min)
		dbaile		8	Permitted speed range was exceeded (only monitoring channel 1)
		n _n		9	Permitted speed range was fallen short of (only monitoring channel 1)
				11	Prm20 'SS1 brake ramp time':
	Colchon	3	SIGHO.X		Current deceleration ramp deviates from the permissibl range (only monitoring channel 2)
		, dbadic		14	Permitted speed range was breached (only monitoring channel 2)
		THE .		15	Standstill window following end of ramp breached (only monitoring channel 2)
Error reaction	7, 3	case of an err error reaction		monito	ring of the SS1 stop function, 'Save torque off (STO)' follow
Error rectification			(C)		ched by the movement of the drive ical conditions



3606	Info1	102	Error m	essage	e of the stop function 'Safe stop 2 (SS2)'
	1000				nitoring
	Spar		Info2	0	Not to be evaluated
	4	100		3	Upper speed limit in standstill was breached
		The.		4	Lower speed limit in standstill was breached
				5	Upper position limit in standstill was breached
	V.	3,		6	Lower position limit in standstill was breached
	"Gich"		Ramp	monito	ing
	1401		Info3	0	Not to be evaluated
	Th Apr.	anth'	Š ^o	1	Actual speed value exceeds maximum permissible value (60000 1/min)
		6		8	Permitted speed range was exceeded (only monitoring channel 1)
	Neight.	,* `	6	9	Permitted speed range was fallen short of (only monitoring channel 1)
	NICO.		210	11	Prm25 'SS2 brake ramp time':
	14 12°C	an ^a	900		Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
		9		14	Permitted speed range was breached (only monitoring channel 2)
	William .	.57		15	Standstill window following end of ramp breached (only monitoring channel 2)
Error reaction		ase of an erro		monito	ring of the SS2 stop function, 'Save torque off (STO)' follows
Error rectification	4	- 174	-		ched by the movement of the drive ical conditions
3606	Info1	103	Error m	essage	e of the safety function 'Safe operating stop (SOS)'
	16	3.	Movem	ent mo	nitoring
	Clift)		Info2	0	Not to be evaluated
	NIJON.		110	3	Upper speed limit in standstill was breached
	900		98,0	4	Lower speed limit in standstill was breached
	727	The state		5	Upper position limit in standstill was breached
		2,		6	Lower position limit in standstill was breached
		A	Ramp	monitor	ring
	- N	×.	Info3	0	Not to be evaluated
	"Tipling"		Jich	1	Actual value exceeds maximum permissible value (60000 1/min)
Error reaction		ase of an erro ws as error r		monito	ring of the SOS safety function, 'Save torque off (STO)'
Error rectification	• Che	ck by what th	ne invali	d move	ment of the drive was triggered



	16.00		U.740.		
3606	Info1	104			e of the safety function 'Safe speed range 1 (SSR1)'
	D.	2710	Movem	nent mo	pnitoring
		1900	Info2	0	Not to be evaluated
		The state of the s		3	Upper speed limit of the monitoring range was breached
		21		4	Lower speed limit of the monitoring range was breached
			Ramp	monito	ring
	150.19		Info3	0	Not to be evaluated
	Segret,	NO NICO	Og.	1	Actual speed value exceeds maximum permissible value (60000 1/min)
				8	Permitted speed range was exceeded (only monitoring channel 1)
				9	Permitted speed range was fallen short of (only monitoring channel 1)
	150.7		Kary	11	Prm32 'SSR1 brake ramp time':
	2 Care	Walte.			Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
		THE HISTORY		14	Permitted speed range was breached (only monitoring channel 2)
		2		15	Monitoring window following end of ramp breached (only monitoring channel 2)
Error reaction		case of an err			ring of the SSR1 safety function, the parameterised error
	100	action follows	(310, 30	<i>3</i>   U	32)
Error rootification	- Ch	ook why tho	novomor		
Error rectification		- ~/>		nt of the	e drive has breached the limits
		ljust paramete	erisation	nt of the	e drive has breached the limits sical conditions
		- ~/>	erisation f	nt of the to phys nessag	e drive has breached the limits sical conditions e for the safety function 'Safe direction positive (SDIp)'
	• Ad	ljust paramete	erisation f	nt of the to phys nessag	e drive has breached the limits sical conditions
	• Ad	ljust paramete	erisation f	nt of the to phys nessag	e drive has breached the limits sical conditions e for the safety function 'Safe direction positive (SDIp)'
	• Ad	ljust paramete	Error m Movem	nt of the to phys nessag	e drive has breached the limits sical conditions e for the safety function 'Safe direction positive (SDIp)' conitoring
	• Ad	ljust paramete	Error m Movem	nt of the to physical nessagrant modern and the total nessagrant modern and the total nessagrant ne	e drive has breached the limits sical conditions e for the safety function 'Safe direction positive (SDIp)' conitoring  Not to be evaluated  Lower speed limit of the monitoring range was breached
	• Ad	ljust paramete	Error m Movem Info2	nt of the to physical nessagrant modern and the total nessagrant modern and the total nessagrant ne	e drive has breached the limits sical conditions e for the safety function 'Safe direction positive (SDIp)' conitoring  Not to be evaluated  Lower speed limit of the monitoring range was breached
	• Ad	ljust paramete	Error m Movem Info2	nt of the to physical nessaginent model of the monito	e drive has breached the limits sical conditions e for the safety function 'Safe direction positive (SDIp)' conitoring  Not to be evaluated Lower speed limit of the monitoring range was breached
3606	• Ad Info1	105	Error m Movem Info2 Ramp Info3	nt of the to physical messagment model of the monito of the top the to	e drive has breached the limits sical conditions e for the safety function 'Safe direction positive (SDIp)' positoring  Not to be evaluated Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value
3606  Error reaction	• Ad Info1	105  105  case of an error lows as error	Error m Movem Info2 Ramp Info3	nt of the to physical messagement model of the monito of t	e drive has breached the limits sical conditions  e for the safety function 'Safe direction positive (SDIp)' conitoring  Not to be evaluated  Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value (60000 1/min)
Error reaction  Error rectification	• Ad Info1  • Info1  • Ch	105  case of an error lows as error neck by what to	Error m Movem Info2 Ramp Info3 Tor in the reaction the invalid	nt of the to physical messagement model of the monito of t	e drive has breached the limits sical conditions  e for the safety function 'Safe direction positive (SDIp)' positoring  Not to be evaluated Lower speed limit of the monitoring range was breached  ring  Not to be evaluated Actual value exceeds maximum permissible value (60000 1/min)  pring of the SDIp safety function, 'Save torque off (STO)'  ement of the drive was triggered
Error reaction  Error rectification	• Ad Info1	105  105  case of an error lows as error	Error m Movem Info2 Ramp Info3 Ror in the reaction the invalid	nt of the to physical messagement moderate of the monito of the messagement messagement of the	e drive has breached the limits sical conditions  e for the safety function 'Safe direction positive (SDIp)' positoring  Not to be evaluated Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value (60000 1/min)  pring of the SDIp safety function, 'Save torque off (STO)'  ement of the drive was triggered  e of the safety function 'Safe direction negative (SDIn)'
3606  Error reaction  Error rectification	• Ad Info1  • Info1  • Ch	105  case of an error lows as error neck by what to	Error m Movem Info2 Ramp Info3 Tor in the reaction the invalid Error m Movem	nt of the to physical properties of the to physical properties of the top physical p	e drive has breached the limits sical conditions  e for the safety function 'Safe direction positive (SDIp)' positoring  Not to be evaluated  Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value (60000 1/min)  pring of the SDIp safety function, 'Save torque off (STO)'  ement of the drive was triggered  e of the safety function 'Safe direction negative (SDIn)' positoring
Error reaction  Error rectification	• Ad Info1  • Info1  • Ch	105  case of an error lows as error neck by what to	Error m Movem Info2 Ramp Info3 Ror in the reaction the invalid	messagment mo  d monito  monito  d move  messagment mo  d move  messagment mo  d move  messagment mo  0	e drive has breached the limits sical conditions  e for the safety function 'Safe direction positive (SDIp)' positoring  Not to be evaluated Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value (60000 1/min)  pring of the SDIp safety function, 'Save torque off (STO)'  ement of the drive was triggered  e of the safety function 'Safe direction negative (SDIn)' positoring  Not to be evaluated
Error reaction  Error rectification	• Ad Info1  • Info1  • Ch	105  case of an error lows as error neck by what to	Error m Movem Info2 Ramp Info3  or in the reaction the invalid Movem Info2	messagment model of monitor of the monitor of the monitor of the monitor of the messagment model of th	e drive has breached the limits sical conditions  e for the safety function 'Safe direction positive (SDIp)' positoring  Not to be evaluated  Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value (60000 1/min)  pring of the SDIp safety function, 'Save torque off (STO)'  ement of the drive was triggered  e of the safety function 'Safe direction negative (SDIn)' positoring  Not to be evaluated  Upper speed limit of the monitoring range was breached
3606  Error reaction  Error rectification	• Ad Info1  • Info1  • Ch	105  case of an error lows as error neck by what to	Ramp Info2 Ramp Info3 Reaction He invalid Error m Movem Info2 Ramp Ramp Ramp Ramp Ramp	messagment model of the monito of the messagment model of the monito of the monito of the messagment model of the monito of the	e drive has breached the limits sical conditions  e for the safety function 'Safe direction positive (SDIp)' positoring  Not to be evaluated Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value (60000 1/min)  pring of the SDIp safety function, 'Save torque off (STO)'  ement of the drive was triggered  e of the safety function 'Safe direction negative (SDIn)' positoring  Not to be evaluated  Upper speed limit of the monitoring range was breached ring
3606  Error reaction  Error rectification	• Ad Info1  • Info1  • Ch	105  case of an error lows as error neck by what to	Error m Movem Info2 Ramp Info3  or in the reaction the invalid Movem Info2	messagment model of monitor of the monitor of the monitor of the monitor of the messagment model of th	e drive has breached the limits sical conditions  e for the safety function 'Safe direction positive (SDIp)' positoring  Not to be evaluated  Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value (60000 1/min)  pring of the SDIp safety function, 'Save torque off (STO)'  ement of the drive was triggered  e of the safety function 'Safe direction negative (SDIn)' positoring  Not to be evaluated  Upper speed limit of the monitoring range was breached ring  Not to be evaluated
3606  Error reaction  Error rectification	• Ad Info1  • Info1  • Ch	105  case of an error lows as error neck by what to	Ramp Info2 Ramp Info3 Reaction He invalid Error m Movem Info2 Ramp Ramp Ramp Ramp Ramp	messagment model of the monito of the messagment model of the monito of the monito of the messagment model of the monito of the	e drive has breached the limits sical conditions  e for the safety function 'Safe direction positive (SDIp)' positoring  Not to be evaluated Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value (60000 1/min)  pring of the SDIp safety function, 'Save torque off (STO)'  ement of the drive was triggered  e of the safety function 'Safe direction negative (SDIn)' positoring  Not to be evaluated  Upper speed limit of the monitoring range was breached ring
Error rectification  3606  Error reaction  Error rectification  3606	Ad     Info1      Info1      Info1	case of an erroneck by what t	Error m Movem Info2 Ramp Info3 Tor in the reaction the invalid Error m Movem Info2 Ramp Info3 Tor in the reaction The invalid The reaction The reaction The invalid The reaction The invalid The reaction The	messagment monito  d move  messagment monito  d move  messagment monito  d move  messagment monito  0  1  1	e drive has breached the limits sical conditions  e for the safety function 'Safe direction positive (SDIp)' ponitoring  Not to be evaluated  Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value (60000 1/min)  pring of the SDIp safety function, 'Save torque off (STO)'  ement of the drive was triggered  e of the safety function 'Safe direction negative (SDIn)' ponitoring  Not to be evaluated  Upper speed limit of the monitoring range was breached ring  Not to be evaluated  Actual value exceeds maximum permissible value



3606	Info1	108	Error m	nessag	e for the safety function 'Safe maximum speed (SMS)'
	300		Movem	nent m	onitoring
	Spar.	24	Info2	3	Upper speed limit of the monitoring range was breached
	A. C.		27.	4	Lower speed limit of the monitoring range was breached
Error reaction		ase of an er			oring of the SMS safety function, the parameterised error (SS2)
Error rectification	1/2	-			e drive has breached the limits sical conditions
3606	Info1	109		v · ·	e of the safety function 'Safe speed range 2 (SSR2)'
	900				onitoring
	A.C.	12.	Info2	0	Not to be evaluated
		27,		3	Upper speed limit of the monitoring range was breached
		2		4	Lower speed limit of the monitoring range was breached
	34	35.	Ramp	monito	
	" Car		Info3	0	Not to be evaluated
	'Gpanto,		71. gbarge.	1	Actual speed value exceeds the maximum permissible value
		The		8	(60000 1/min)  Permitted speed range was exceeded (only monitoring channel 1)
	.34	Ġ.		9	Permitted speed range was fallen short of (only monitoring channel 1)
	- Ollie		200	11	Prm38 'SSR2 brake ramp time':
	4 Popular	2	Mig Dann		Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
		37		14	Permitted speed range was breached (only monitoring channel 2)
	X.	3		15	Monitoring window following end of ramp breached (only monitoring channel 2)
Error reaction		ase of an er ction follows			oring of the SSR2 safety function, the parameterised error



3606		Info1	110	Error m	100000	e of the safety function 'Safe speed range 3 (SSR3)'
5000		TITIO I	110			onitoring
			May May 1	Info2	0	Not to be evaluated
			11/01		-	
			The state of		3	Upper speed limit of the monitoring range was breached
				<u>L</u>		Lower speed limit of the monitoring range was breached
		9		Ramp		ring
		As.		Info3	0	Not to be evaluated
		Car.	- 3110		1	Actual speed value exceeds maximum permissible value (60000 1/min)
			"MANIGO.		8	Permitted speed range was exceeded (only monitoring channel 1)
		8	4.	8	9	Permitted speed range was fallen short of (only monitoring channel 1)
		163.4		150.4	11	Prm44 'SSR3 brake ramp time':
		Carry.	~ajto			Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
			"Mayich		14	Permitted speed range was breached (only monitoring channel 2)
					15	Monitoring window following end of ramp breached (only monitoring channel 2)
Error read	ction		case of an err			ring of the SSR3 safety function, the parameterised error S2)
Error rect	tification			4.7		e drive has breached the limits
			~//			ical conditions
			- 20			-99
3606		Info1	111			e of the safety function 'Safe speed range 4 (SSR4)'
				l -		pnitoring
		20		Info2	0	Not to be evaluated
		30/10		19/20	3	Upper speed limit of the monitoring range was breached
		Co		(6)2	4	Lower speed limit of the monitoring range was breached
			May May 1	Ramp	monito	ring
			71,0	Info3	0	Not to be evaluated
			nn.		1 🚜	Actual speed value exceeds maximum permissible value (60000 1/min)
		att Ka. P.		Mars.	8	Permitted speed range was exceeded (only monitoring channel 1)
			80		9	Permitted speed range was fallen short of (only monitoring channel 1)
			~30			100
			REMARKING TO		11	Prm50 'SSR4 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
		10 KO (1)	WALT SPECIAL	eska.pl	11	Current deceleration ramp deviates from the permissible range
		(NEWS)	And High Str.	ighte p	42	Current deceleration ramp deviates from the permissible range (only monitoring channel 2)  Permitted speed range was breached
Error read	ction		case of an err		14 15 monito	Current deceleration ramp deviates from the permissible range (only monitoring channel 2)  Permitted speed range was breached (only monitoring channel 2)  Monitoring window following end of ramp breached (only monitoring channel 2)  ring of the SSR4 safety function, the parameterised error



3606	Info1	112			e of the safety function 'Safely-limited speed 1 (SLS1)'
	- allio,		- 20.	1	onitoring
	Sp.		Info2	0	Not to be evaluated
	The state of the s	14/4		3	Upper speed limit of the monitoring range was breached
		2,		4	Lower speed limit of the monitoring range was breached
		9	Ramp	monito	ring
	143	×	Info3	0	Not to be evaluated
	"Sittle fraits		Vallet,	1	Actual speed value exceeds maximum permissible value (60000 1/min)
	74 C.	and the	9	8	Permitted speed range was exceeded (only monitoring channel 1)
		7		9	Permitted speed range was fallen short of (only monitoring channel 1)
	Saltomatike	,8	OF HOTE	11	Prm56 'SLS1 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
	14 C.	and the	97	14	Permitted speed range was breached (only monitoring channel 2)
		7		15	Monitoring window following end of ramp breached (only monitoring channel 2)
Error reaction					ring of the SLS1 safety function, the parameterised error
Error rectification	4.30	ction follows			S2) e drive has breached the limits
Error rectification	• Che	ck wny tne m	าovemer	nt ot the	e grive has preached the limits
	. Adio	•			
Room .	• Adju	•			ical conditions
3606	Adju Info1	•	risation	to phys	
R _{ELL}		ust paramete	risation Error m	to phys nessag	ical conditions
R _{brr}		ust paramete	risation Error m	to phys nessag	e of the safety function 'Safely-limited speed 2 (SLS2)'
Region .		ust paramete	Error m	to physnessag	e of the safety function 'Safely-limited speed 2 (SLS2)' pointoring
Region .		ust paramete	Error m	nessag nent mo	e of the safety function 'Safely-limited speed 2 (SLS2)' onitoring  Not to be evaluated
Region .		ust paramete	Error m	nessag nent mo	e of the safety function 'Safely-limited speed 2 (SLS2)' onitoring  Not to be evaluated  Upper speed limit of the monitoring range was breached Lower speed limit of the monitoring range was breached
R _{ELL}		ust paramete	Error n Moven Info2	nessag nent mo	e of the safety function 'Safely-limited speed 2 (SLS2)' onitoring  Not to be evaluated  Upper speed limit of the monitoring range was breached Lower speed limit of the monitoring range was breached
R _{ELL}		ust paramete	Error m Movem Info2	nessagnent model and a second	e of the safety function 'Safely-limited speed 2 (SLS2)' positoring  Not to be evaluated Upper speed limit of the monitoring range was breached Lower speed limit of the monitoring range was breached ring  Not to be evaluated Actual speed value exceeds maximum permissible value (60000 1/min)
Man.		ust paramete	Error m Movem Info2	nessagnent mod	e of the safety function 'Safely-limited speed 2 (SLS2)' onitoring  Not to be evaluated  Upper speed limit of the monitoring range was breached Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual speed value exceeds maximum permissible value
Man.		ust paramete	Error m Movem Info2	nessagnent model and a second	e of the safety function 'Safely-limited speed 2 (SLS2)' initoring  Not to be evaluated  Upper speed limit of the monitoring range was breached Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual speed value exceeds maximum permissible value (60000 1/min)  Permitted speed range was exceeded (only monitoring channel 1)  Permitted speed range was fallen short of (only monitoring channel 1)
R _{ELL}		ust paramete	Error m Movem Info2	nessagment model of the state o	e of the safety function 'Safely-limited speed 2 (SLS2)' onitoring  Not to be evaluated  Upper speed limit of the monitoring range was breached Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual speed value exceeds maximum permissible value (60000 1/min)  Permitted speed range was exceeded (only monitoring channel 1)  Permitted speed range was fallen short of
Registration of the second		ust paramete	Error m Movem Info2	nessagnent model of the state o	e of the safety function 'Safely-limited speed 2 (SLS2)' positoring  Not to be evaluated  Upper speed limit of the monitoring range was breached Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual speed value exceeds maximum permissible value (60000 1/min)  Permitted speed range was exceeded (only monitoring channel 1)  Permitted speed range was fallen short of (only monitoring channel 1)  Prm61 'SLS2 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2)
Registration of the second		ust paramete	Error m Movem Info2	nessagnent monito  0 3 4 monito 0 1	e of the safety function 'Safely-limited speed 2 (SLS2)' ponitoring  Not to be evaluated  Upper speed limit of the monitoring range was breached Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual speed value exceeds maximum permissible value (60000 1/min)  Permitted speed range was exceeded (only monitoring channel 1)  Permitted speed range was fallen short of (only monitoring channel 1)  Prm61 'SLS2 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2) (only monitoring channel 2) Permitted speed range was breached
Registration of the second	• In ca	113	Error m Movem Info2  Ramp Info3	nessagnent model of the state o	e of the safety function 'Safely-limited speed 2 (SLS2)' onitoring  Not to be evaluated  Upper speed limit of the monitoring range was breached Lower speed limit of the monitoring range was breached ring  Not to be evaluated  Actual speed value exceeds maximum permissible value (60000 1/min)  Permitted speed range was exceeded (only monitoring channel 1)  Permitted speed range was fallen short of (only monitoring channel 1)  Prm61 'SLS2 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2) (only monitoring channel 2)  Permitted speed range was breached (only monitoring channel 2)  Permitted speed range was breached (only monitoring channel 2)  Monitoring window following end of ramp breached (only monitoring channel 2)  ring of the SLS2 safety function, the parameterised error
3606	• In careac	113 ase of an errotion follows	Error m Movem Info2	messagment monito  0 3 4 monito 0 1 8 9 11 14 15 monito S1 or S	e of the safety function 'Safely-limited speed 2 (SLS2)' positoring  Not to be evaluated Upper speed limit of the monitoring range was breached Lower speed limit of the monitoring range was breached ring  Not to be evaluated Actual speed value exceeds maximum permissible value (60000 1/min)  Permitted speed range was exceeded (only monitoring channel 1)  Permitted speed range was fallen short of (only monitoring channel 1)  Prm61 'SLS2 brake ramp time': Current deceleration ramp deviates from the permissible range (only monitoring channel 2) (only monitoring channel 2)  Permitted speed range was breached (only monitoring channel 2)  Monitoring window following end of ramp breached (only monitoring channel 2)  Monitoring window following end of ramp breached (only monitoring channel 2)



3606	Info1	114	Error message for the safety function 'Safely-limited increment (SLI)'						
	\$		Movem	Movement monitoring					
			Info2	5	Upper position limit of the monitoring range was breached				
		n.		6	Lower position limit of the monitoring range was breached				
Error reaction			se of an error in the monitoring of the SLI safety function, the parameterised error tion follows (STO, SS1 or SS2)						
Error rectification			movement of the drive has breached the limits rerisation to physical conditions						

#### 3607 Safety - Internal System Error

<ul> <li>Internal system</li> </ul>	enoi								
Device	KW-R07 / -R17 safety module								
Description	Internal error of a process monitoring or a self-test								
Class	Error								
Orive behaviour	The drive remains torque-free								
Device behaviour	The safety monitoring does not switch to the operational state, i.e. the safety functions cannot be put into operation								
Additional information	(Info AMK	customer se	rvice)						
3607	Info1	5			or, sine encoder detection, hannel 1				
	3500	Salif	Info2	4	No stable state of the counter in the determination of the offset				
		"H'.Q"		5	Default branch run through				
Error reaction		case of an er action	ror in the	encod	der monitoring, 'Save torque off (STO)' follows as error				
Error rectification	• A	MK service	3		9				
3607	07 Info1		Encoder error, sine encoder detection, monitoring channel 2						
		Walle.	Info2	4	Counter value cannot be read				
		71,07		5	Default branch run through				
		The same		6	No stable state of the counter				
Error reaction		case of an er action	ror in the	encod	der monitoring, 'Save torque off (STO)' follows as error				
Error rectification	• A	MK service	19/co		23/4°				
3607	Info1	16	Error messages of the input monitorings, monitoring channel 1						
		11/0)	Info2	2	Faulty input value				
		200	Info3	1 4	Input 1				
				2	Input 2				
				3	Input 3				
Error reaction	4 14 1	case of an er	ror in the		/ output monitorings, 'Save torque off (STO)' follows as erro				
Error rectification	• C	heck wiring o heck correctn heck paramet ardware poss	ess of dyr erisation	namic of dyn	namic sampling				



3607	Info1	17	Error messages of the input monitorings, monitoring channel 2					
	Span .		Info2	2	Faulty input value			
		147	Info3	1	Input 1			
		2/4		2	Input 2			
		2		3	Input 3			
Error reaction		ase of an erro	or in the	input/	output monitorings, 'Save torque off (STO)' follows as error			
Error rectification	• Che • Che • Har	cck wiring of tock correctne cck parameted dware possib Service	ss of dyr risation	namic : of dyna	amic sampling			
3607	Info1	20		messages of the input monitorings, oring channel 1				
	109/101		Info2	7	Invalid specification for the allocation of the input 1 in the status			
		and the	(9)	8	Invalid specification for the allocation of the input 2 in the status			
		9		9	Invalid specification for the allocation of the input 3 in the status			
	and W	×		10	Bit number for input 1 and input 2 in the status value identical			
	109/101,		:031 ¹ 1011	11	Bit number for input 1 and input 3 in the status value identical			
	(9)	anth'	9	12	Bit number for input 2 and input 3 in the status value identical			
				13	Value of input 1 is too large			
	.0	S)		14	Value of input 2 is too large			
and the	20/4			15	Value of input 3 is too large			
Error reaction	30,700	ase of an erro	or in the	input/	output monitorings, 'Save torque off (STO)' follows as error			
Error rectification	• Che • Che • Har	eck wiring of to eck correctne eck paramete dware possik 2 = 7 12: A	ss of dyr risation oly faulty	namic : of dyna //chec	amic sampling			



Mr.	W-7		100		Ser					
3607	Info1	22		Error messages of the input monitorings, monitoring channel 2						
"liftpan		"I'dhan	Info2	7	Invalid specification for the allocation of the input 1 in the status					
Why.		nu		8 4	Invalid specification for the allocation of the input 2 in the status					
	12.0		10.0	9	Invalid specification for the allocation of the input 3 in the status					
	Majel.	xĆ	E. S. C.	10	Bit number for input 1 and input 2 in the status value identical					
Widpan.		Widpan		11	Bit number for input 1 and input 3 in the status value identical					
No.		un.		12	Bit number for input 2 and input 3 in the status value identical					
9	9		6	13	Value of input 1 is too large					
They want	743.x		Mar	14	Value of input 2 is too large					
Carlo	Car.		9 Dec	15	Value of input 3 is too large					
Error reaction	• Ir	case of an eri	or in the	input/	output monitorings, 'Save torque off (STO)' follows as error					
		eaction			_&`					
Error rectification	• C	heck wiring of	the input	ts _						
2,	• C	heck correctne	ess of dyr	namic s	ampling					
	• C	heck paramete	erisation	of dyna	amic sampling					
7.3%		ardware possi		-						
THE STATE OF THE S	11/1	nfo2 = 7 12: /	- / -		The The					
CV .	(c • II	1102 - 1 12.1								
3607	Info1	23		ring ch	es of the safety outputs annel 1					
		nun.	Info2	1 33	A safety function is reported as active although the function is not selected					
2				5	Internal error					
10°5,	10.5,		13.5	6	Internal error					
"agh	201		27	7	Internal error					
E. XC	3	xĊ	8	8	Internal error					
Error reaction	• In	rese of an er	or in the	innut / (	output monitorings, 'Save torque off (STO)' follows as error					
Life reaction		eaction	or iii aic	input	Supurmonionings, save torque on (616) follows as error					
Error rectification	• A	MK service		77,4	in the things					
3607	Info1	24			es of the safety outputs annel 2					
Cajdy.	Seight.	×C	Info2	1	A safety function is reported as active although the function is not selected					
10/9/11		103111		5	Internal error					
"1'(0),		"4'¿O',		6	Internal error					
Male		We are		7 💯	Internal error					
				8	Internal error					
Error reaction	N 11 C.P.	l n case of an erreaction	or in the	_	output monitorings, 'Save torque off (STO)' follows as error					
Error rectification	-2.7	MK service	U.S.C.							
3607	Info1	25	Error m	nessage	es of the output monitorings,					
100		-			annel 1					
Thu.		They	Info2	26	Setpoint A1 > 1					
1.		100	""02							
2				27	Setpoint A2 > 1					
12×	163.4		10,8	28	Feed forward A3 > limit					
Suga,	Sign.		12. C.	29	Feed forward A2 > limit					
, xc	8.	30	8	30	Feed forward Dyn > limit					
Error reaction		case of an erreaction	or in the	input/	output monitorings, 'Save torque off (STO)' follows as error					
Error rectification	• A	AMK service								
· · · · · · · · · · · · · · · · · · ·	·	70.		53.7						



3607	Info1	26	Error messages of the output monitorings, monitoring channel 2					
	1090		Info2	26	Setpoint A1 > 1			
	(0)	1/2	9	27	Setpoint A2 > 1			
		2024		28	Prm104 'SA1.2 output type' > maximum value			
				29	Feed forward A2 > limit			
		Ġ.		30	Feed forward Dyn > limit			
Error reaction	2770	ase of an erro	rror in the input / output monitorings, 'Save torque off (STO)' follow					
Error rectification	• AMI	K service	1080		10 ₁₀			
3607	Info1	27	Error messages of the output test, monitoring channel 1					
			Info2	1 、				
	545	12	Info3	3	Read-back signal > 1			
	gpgHcfraid ^F			4	Setpoint > 1			
			1000	5	Instance > 1			
		mani	8	6	Output no. > 1			
				7	Test cycle > limit			
				8	Signal changing without error monitoring > limit			
				9	More than 4 signal changes per ms			
Error reaction		ase of an erro	or in the	input i	output monitorings, 'Save torque off (STO)' follows as error			
Error rectification	• AMI	K service	1,01		KOL KOL			
3607	Info1	28	Error messages of the output test, monitoring channel 2					
		27.	Info2	1	to to			
		6	Info3	3 8	Read-back signal > 1			
	The state of the s			4	Setpoint > 1			
	May,		200	5	Instance > 1			
	Wille.		Will.	6	Output no. > 1			
	'Bo,	nan'	35,	7	Test cycle > limit			
				8	Signal changing without error monitoring > limit			
				9	More than 4 signal changes per ms			
Error reaction		ase of an erro	or in the	input	output monitorings, 'Save torque off (STO)' follows as error			
Error rectification	• AMI	K service	A	80				



No. N	13.4	_	NO.Y		10 ²				
3607	Info1	29	Module	ence monitoring					
	D.	a die	Info2	1	me pointer is faulty				
		190			Info3 1 Reset				
		Talan.		2	2 Do step				
				2	PAU pointer is faulty				
	2		2		Info3 n Software module no.				
	27/20		The	3	Index exceeds limit				
	200	xd	500		Info3 n Software module no.				
		709/7		4	Identifier is faulty				
		241 C			Info3 n Software module no.				
		n.		5	Cycle time exceeds tolerance (< minimum)				
					Info3 n Time level no.				
	16.5.		15.5.	6	Cycle time exceeds tolerance (> maximum)				
	City.		200		Info3 n Time level no.				
Error reaction	• In c	ase of an er	or in the	modul	e sequence monitoring, 'Save torque off (STO)' follows as				
		or reaction	01 111 1110	modul	o soquenes memoring, sure terque en (e re) isneme us				
Error rectification	• Hai	rdware possi	bly faulty	/ chec	k" gas				
	• AM	K service			4.				
3607	Info1	30	Error during reading of a parameter from the safe parameter set						
	3 dec		Wrong	Wrong parameter number or internal system error					
	76. ₀	Whileparto	Info2	Info2 nn Parameter arrangement, position of the faulty parameter					
			Info3	0	Read unsigned integer 16-Bit parameter from the safe				
					parameter set				
			16.5	1 🚜	Read unsigned integer 32-Bit parameter from the sai parameter set				
				2	Read signed integer 16-Bit parameter from the safe parameter set				
	3 Car.,	300	St. Service	3	Read signed integer 32-Bit parameter from the safe parameter set				
Error reaction		ase of an er	or while	readin	g the parameters, 'Save torque off (STO)' follows as error				
Error rectification	• AM	K service		2,	the the the				
3607	Info1	38	Error m	nessag	e of 'Safe encoder monitoring (SEM)'				
	May.		monito	ring ch	annel 1				
	Caro.		Info2	5	Wrong state selected				
Error reaction		ase of an er	rror in the safe encoder monitoring, 'Save torque off (STO)' follows as error						
Error rectification	• AM	K service			ru. "ru, "ru, "ru,				
3607	Info1	39		•	e of 'Safe encoder monitoring (SEM)' annel 2				
	12.5				Wrong state selected				
Error reaction	• In c	l ase of an er	Info2 5 Wrong state selected rror in the safe encoder monitoring, 'Save torque off (STO)' follows as error						
		ction			20				

2607	Info 4	10		17.0.		:-	ation to D1 avatam arrassass		
3607	Info1	40	Error messages communication to P1 system processor monitoring channel 1 / 2						
	1021		Info2	1	Data le	ngth	is invalid		
	(3)	4	50	2	Index f	or list	t invalid		
		The state of		3	State in	erro	or deletion false		
				4	State in	n sys	tem booting false		
	.0	Ġ)		5 . 9			SEEP data is read		
	10%			ye.	Info3	0	No error		
	Waltowe.		Call Offi	C.		1	Reading SEEP is not possible because of system run-up		
	(5)		(5)		122	2	Reading SEEP is not possible because of data transmission		
		4.			2	3	Maximum address exceeded		
Error reaction  Error rectification	follo	ase of an erro ws as error r		comm	unication	to th	e system processor, 'Save torque off (STO)'		
3607	Info1	70	Error m	100000	je FSoE h	andl	ing		
3007		70	Info2	7		-0	while reading status		
		The state of		8	- 14		while reading process data		
Error reaction	• In ca	ase of an erro	or in the				re torque off (STO)' follows as error reaction		
Error rectification		Service	JI III UIC	1002	nanamig.	Ouv	e torque on (010) ionows us error reaction		
7/2				3			As also S		
3607	Info1	71	Error messages clock monitoring monitoring channel 1						
	(pr		Info2	1	State monitoring				
		alata)		2	Clock monitoring is faulty Faulty state				
				3					
Error reaction	• In ca	ase of an erro	or in the	clock r	monitorin	g, 'Sa	ave torque off (STO)' follows as error reaction		
Error rectification	• AMI	Service		Mrs. y			W.,		
3607	Info1	72			jes clock nannel 2	moni	toring		
	900		Info2	o2 1 State monitoring					
		"Wy		2	Clock monitoring is faulty				
		20		3	Faulty state				
Error reaction	• In ca	ase of an erro	or in the	clock r			ave torque off (STO)' follows as error reaction		
Error rectification		K service		12/10.		-	- 26°,		
3607	Info1	73	Error message system monitoring channel 1						
	0,	Mary.	Info2	1			/ cross communication / clock monitoring tivated for 3 cycles successively		
				2	Life co	unter	FSoE is activated		
	0	3)		3	Output	s can	nnot be set		
	20/4		Info3	3	Monito	ring (	channel 1		
Error reaction	• In ca	ase of a syste	em error	, 'Save	torque o	ff (ST	O)' follows as error reaction		
Error rectification	• AM	Service	7000			700	, 12 ₀		



3607	Info1	74		Error message system monitoring channel 2					
		"HIPOTA	Info2	1	FSoE stack / cross communication / clock monitoring were not activated for 3 cycles successively				
		They was		2	Life counter FSoE is activated				
				3	Outputs cannot be set				
	12.00		200	4	Writing history is failed during data transmission				
	City.		Info3	4	Monitoring channel 2				
Error reaction	• In	case of a syst	em error	'Save	torque off (STO)' follows as error reaction				
Error rectification	• AN	1K service							

3607	Info1	100	Error m	nessag	e of the stop and safety functions
Top.	100		Info2	100	Start bit allocation > maximum value
	Spar		300	101	Reset bit allocation > maximum value
	74/2	2-	47.	102	Reset bit allocation = start bit allocation
	the state of the s	260.		103	Active bit allocation > maximum value
				104	Status bit allocation > maximum value
		,S		105	Error bit allocation > maximum value
	Pip			106	Active bit allocation = status bit allocation
	*OUL		×01°	107	Active bit allocation = error bit allocation
	10900		3030	108	Error bit allocation = status bit allocation
			27 0.	109	Wrong state selected
	1127	262		114	Monitoring channel 1: SS1
					Error reaction > maximum value
		9		115	Monitoring channel 2: SS1
	16:			The	Error reaction > maximum value
	all land		~6	116	Monitoring channel 1: SS2
	- 1000		200		Error reaction > maximum value
	1900		380	117	Monitoring channel 2: SS2
y was	747	242	2,		Error reaction > maximum value
	25	11.		118	Monitoring channel 1: Safety function
		8		- 6	Pointer not initialised
	. 1	2 ×		119	Monitoring channel 1: Safety function
	A STATE OF THE PARTY OF THE PAR		6	20	Faulty state
	120		7,10,	120	Monitoring channel 2: Safety function
	900		900		Pointer not initialised
	The state of	22.	77	121	Monitoring channel 2: Safety function
	27.	M.			Faulty state
				122	Monitoring channel 1: SS1
	N.	3.5,		18.8	Pointer not initialised
	Pig			123	Monitoring channel 1: SS1
	2017		1000		Faulty state
	10817 C		3030	124	Monitoring channel 2: SS1
	71/0		24 (20)		Pointer not initialised
	444	277		125	Monitoring channel 2: SS1
					Faulty state
		3		126	Monitoring channel 1: SS2
	165	1		Tro.	Pointer not initialised
	CILION I		- 50	127	Monitoring channel 1: SS2
	~alle		2370		Faulty state
	O.		300	128	Monitoring channel 2: SS2
	The.	Page 1	70		Pointer not initialised
	4.	2,		129	Monitoring channel 2: SS2
		2			Faulty state



No. of the	Sign.	,	Info3	100	Error message of stop function 'Save torque off (STO)'
		105		101	Error message of stop function 'Safe stop 1 (SS1)'
	2	1000		102	Error message of stop function 'Safe stop 2 (SS2)'
		annico		103	Error message of safety function 'Safe operating stop (SOS)'
	6		6.	104	Error message of safety function 'Safe speed range 1 (SSR1)'
	Cappea.		Mar.	105	Error message of safety function 'Safe direction positive (SDIp)'
	20°	1001110		106	Error message of safety function 'Safe direction negative (SDIn)'
		Martin Co		108	Error message of safety function 'Safe maximum speed (SMS)'
	6		6	109	Error message of safety function 'Safe speed range 2 (SSR2)'
	Calchan,		Jeffer	110	Error message of safety function 'Safe speed range 3 (SSR3)'
	ici.	200150		111	Error message of safety function 'Safe speed range 4 (SSR4)'
		"hhyio,		112	Error message of safety function 'Safely-limited speed 1 (SLS1)'
			3	113	Error message of safety function 'Safely-limited speed 2 (SLS2)'
	COLHON		20/FB.	114	Error message of safety function 'Safely-limited increment (SLI)'
Error reaction	• In o	case of an erro	r, 'Save to	orque o	ff (STO)' follows as error reaction
Error rectification	• AN	IK service			'S ₂ , 'S

## 3609 Safety - Faulty Parameter Transfer

Faulty parameter transfer

Device	KW-R07 / -R17 safety module									
Description	Paramete	Parameterisation error during system booting or during parameter set transfer								
	During system booting, the safe parameter set is checked for validity									
					the safe parameter set is ring the transfer	checked for validity and the				
Class	Error									
Drive behaviour	The drive	remains torqu	ue-free		6	. 67				
Device behaviour	The safety monitoring does not switch to the operational state, i.e. the safety functions cannot be put into operation									
Additional information	(Info AMK c	ustomer servi	ce)		Julio,	William William				
3609	Info1 3				ending of the status from monitoring channel 2 to annel 1 mation of the adoption of the transmitted safe parameter s					
	13.0		Info2	11	Internal system error					
	S. Calebra	-0	ST STATE OF		Error during sending o channel 2 to monitoring	f the status from monitoring g channel 1				
	7	~31J2		15	Internal system error	~40°				
				2.	Timeout during sendin channel 2 to monitoring	g of the status from monitoring g channel 1				
	2		Info3	58	Transfer of the safe parameter set is started (monitoring channel 2)					
Error rectification	0.00				(monitoring channel 2) It to the device once more It AMK service					



3609	Info1	5	Error d	uring tl	ne importing of the safe parameter set into the SEEP
	abaliton.		Info2	5	Internal system error: Timeout import parameter set into the SEEP
	(9)	100	9	7	Internal system error: Procedural error
		Mr.		8	Internal system error: Input parameter
	V.3	ġ.	Info3	57	Transfer of the safe parameter set is started (monitoring channel 1)
	, ornately		, of 1	58	Transfer of the safe parameter set is started (monitoring channel 2)
Error rectification	.0.		0.00		t to the device once more t AMK service
3609	Info1	6			urs if certain functions are not completed during the transfer rameter set to the device.
	N	3,	Info2	13.7	Not to be evaluated
	Saltonato.		Info3	55	Testing of the safe parameter set is started during system booting (monitoring channel 1)
		nnn	97	56	Testing of the safe parameter set is started during system booting (monitoring channel 2)
J. 8.01	N2	<u>.</u>		57	Transfer of the safe parameter set is started (monitoring channel 1)
	, orraid		700	58	Transfer of the safe parameter set is started (monitoring channel 2)
Error rectification	O.	tch the device sibly transmi		e parar	meter set to the device once more
3609	Info1	7			or: Within a certain time, the expected status from monitoring es not arrive
	N.2	3,	Info2	7.0 ⁸	Internal system error: Procedural error
	age)			8	Internal system error: Input parameter
	Apaliton,		SOUTHOL.	12	Timeout during reading of the status from monitoring channel 2
	2	and	Info3	55	Testing of the safe parameter set is started during system booting (monitoring channel 1)
	"The	ġ.		57	Transfer of the safe parameter set is started (monitoring channel 1)
Error rectification	, O`	tch the device sibly transmi		e parar	meter set to the device once more



Info1	8	Interna		
	~\`\`	Info2		Not to be evaluated
	MAN INGO	Info3	55	Testing of the safe parameter set is started during system booting (monitoring channel 1)
		40.0	56	Testing of the safe parameter set is started during system booting (monitoring channel 2)
	, jich	2000	57	Transfer of the safe parameter set is started (monitoring channel 1)
	.W.1000		58	Transfer of the safe parameter set is started (monitoring channel 2)
	the state of the s	6	59	Testing of the safe parameter set is completed during system booting (monitoring channel 1)
	100	E. J.	60	Testing of the safe parameter set is completed during system booting (monitoring channel 2)
	"1'QDoc		61	Transfer of the safe parameter set is completed (monitoring channel 1)
	The state of the s		62	Transfer of the safe parameter set is completed (monitoring channel 2)
• AN	1K service	19.0		, À , À
Info1	9	Transfe	er of the	safe parameter set is successfully completed
	ununidbaliter	Info2	0	"The transfer of the safe parameter set has been successfully completed, please restart."  (This information is always displayed when the safe parameter set has been successfully transmitted to the device!)
		40.0	11	Internal system error: Error during sending of the status from monitoring channel 2 to monitoring channel 1
	"idparto	S**	15	Internal system error: Timeout during sending of the status from monitoring channel 2 to monitoring channel 1
	m	Info3	61	Transfer of the safe parameter set is completed (monitoring channel 1)
		10.01	62	Transfer of the safe parameter set is completed (monitoring channel 2)
		• AMK service Info1 9	• AMK service  Info1 9 Transfe  Info2	56   57   58   59   60   61   62     62     11   15

3609	Info1	10		uring re	m error eading of the verification number from the SEEP in annel 2
	(0)	and the	Info2	0	Not to be evaluated
		The state of		7	Internal system error: Procedural error
	24,	, <u>?</u>		11	Internal system error: Error during sending of the status from monitoring channel 2 to monitoring channel 1
	dipariomater.		Souther Control	13	Internal system error: Reading of the check sum from the SEEP monitoring channel 2 has been completed incorrectly
		non'		14	Internal system error: Timeout in the reading function of the check sum from the SEEP monitoring channel 2
		, <u>(</u> )		15	Internal system error:
	- OLIGICAN	3		E. C.	Timeout during sending of the status from monitoring channel 2 to monitoring channel 1
	Spanie.	an	Info3	56	Testing of the safe parameter set is started during system booting (monitoring channel 2)
3609	Info1	11	Interna Info2	1 syster	Secure the timeout in the check sum function in SEEP monitoring channel 2
3609	Info1	11			
		440			
		The same	Info3	58	Transfer of the safe parameter set is started (monitoring channel 2)
Error rectification	• Pos		t the safe		neter set to the device once more s, contact AMK service
3609	Info1	73	Interna	l syster	m error
		stata,	Info2	1	During system run-up, an error in checksum 2 was detected within CRC examination
		_			Info3 3 Monitoring channel 1
Error reaction	• In c	ase of a syste	em intern	nal erro	r, 'Save torque off (STO)' follows as error reaction
Error rectification	• Tra				to the device once more
3609	Info1	74	Interna	l syster	m error
		nun.	Info2	0	During system run-up, an error in checksum 2 was detected within CRC examination
		d)		6	Info3 4 Monitoring channel 2
	16	0-1		5	New parameter set is transmitted
		1	<u> </u>		
Error reaction	<ul><li>In c</li></ul>	ase of a syste	em interr	iai erro	r, 'Save torque off (STO)' follows as error reaction



NE CONTRACTOR OF THE CONTRACTO	The same	1	700		
3609	Info1	128	The cui	rrent pa	rameter set is invalid
		"Hidporto	Info2	6	This version of the checked parameter set is not compatible with the device version or the safe parameter set is not available on the device
	TELEVE T	Mr.	ndka di	9 111	Error during comparison of test sums Check sum from the current safe parameter set and check sum from the SEEP, monitoring channel 2, are different Hardware was replaced
		100 J.C.		10	The check sum read from the SEEP, monitoring channel 2 is 0
		May 10	Info3	55	Testing of the safe parameter set is started during system booting (monitoring channel 1)
	1814 P. D.		SEHO.	56	Testing of the safe parameter set is started during system booting (monitoring channel 2)
		20010		57	Transfer of the safe parameter set is started (monitoring channel 1)
		annio,		58	Transfer of the safe parameter set is started (monitoring channel 2)
Error rectification	• Tra	nsmit the vali	d safe pa	aramete	er set to the device once more
		WHAN I GIR STILL	is requ	ested	nation of the adoption of the transmitted safe parameter set rameter set is invalid  Internal system error
		20,	111102	1/2	Error during sending of the status from monitoring channel 2 to monitoring channel 1
	lagho b	,,ó	Selfe S	15	Internal system error Timeout during sending of the status from monitoring channel 2 to monitoring channel 1
		" Wildpan	Info3	58	Transfer of the safe parameter set is started (monitoring channel 2)
Error rectification			-		to the device once more  AMK service
3609	Info1	133	the second second	-	e importing of the safe parameter set into the SEEP trameter set is invalid
		, dpalito	Info2	5	Internal system error: Timeout import parameter set into the SEEP
		Thy.		7	Internal system error: Procedural error
		2,		8	Internal system error: Input parameter
	16.5		Info3	57	Transfer of the safe parameter set is started (monitoring channel 1)
	Ciga.	10	Bez.	58	Transfer of the safe parameter set is started (monitoring channel 2)
Error rectification		nsmit the safe e error occur			to the device once more



3609	Info1	135	Resulting error: Within a certain time, the expected status from monitoring channel 2 does not arrive					
	Marie		100		arameter set is invalid			
	15 C.	14.	Info2	7	Internal system error: Procedural error			
		The state of		8	Internal system error: Input parameter			
		3		12	Timeout during reading of the status from monitoring channel 2.			
	allomately.	,×	Info3	55	Testing of the safe parameter set is started during system booting (monitoring channel 1)			
Ro.	1900	. M	3000	57	Transfer of the safe parameter set is started (monitoring channel 1)			
Error rectification		tch the devic						
	• Pos	sibiy transmi	t the sate	e para	meter set to the device once more			
3609	Info1	136	Interna	l syste	m error			
	, office		Info2		Not to be evaluated			
	A Grant	an th	Info3	55	Testing of the safe parameter set is started during system booting (monitoring channel 1)			
	713	ġ.		56	Testing of the safe parameter set is started during system booting (monitoring channel 2)			
	*Oll/gidy		700	57	Transfer of the safe parameter set is started (monitoring channel 1)			
	"GBane		Bann	58	Transfer of the safe parameter set is started (monitoring channel 2)			
	2	nun		59	Testing of the safe parameter set is completed during system booting (monitoring channel 1)			
	-match	3	.6	60	Testing of the safe parameter set is completed during system booting (monitoring channel 2)			
	apalito.		Sparito.	61	Transfer of the safe parameter set is completed (monitoring channel 1)			
	7	gh ^a		62	Transfer of the safe parameter set is completed (monitoring channel 2)			
Error rectification	• AMI	K service	_					
3609	Info1	137	Transfe	er of th	e safe parameter set is successfully completed			
Valey.	IIIO I	107			arameter set is invalid			
	digitor		Info2	0	"The transfer of the safe parameter set has been successfully completed, please restart."			
		nun			(This information is always displayed when the safe parameter set has been successfully transmitted to the device!)			
	Sept.	ġ.		11 0	Internal system error: Error during sending of the status from monitoring channel 2 to monitoring channel 1			
	digation,		Bailion,	15	Internal system error: Timeout during sending of the status from monitoring channel 2 to monitoring channel 1			
		200	Info3	61	Transfer of the safe parameter set is completed (monitoring channel 1)			
	28%	3,		62	Transfer of the safe parameter set is completed (monitoring channel 2)			
Error rectification	• Pos	-	t the safe	-	meter set to the device once more rs, contact AMK service			



3609	Info1	138	Interna The cu	-	m error arameter set is invalid
		Willpan	Info2	13	Error in function 'Read checksum from SEEP monitoring channel 2'
		n,		14	Timeout in function 'Read checksum from SEEP monitoring channel 2'
USPANO US		743.G	15	Timeout during sending of the checksum to monitoring channel 1	
	Info3	56	Testing of the safe parameter set is started during system booting (monitoring channel 2)		
Error rectification 3609		witch the device the error occur			
	Tho.		The cu	rrent pa	arameter set is invalid
	Car.	3	Info2	0	Not to be evaluated
		, dballe		16	Timeout in function 'Secure checksum to SEEP monitoring channel 2'
		May.	Info3	58	Transfer of the safe parameter set is started (monitoring channel 2)
Error rectification	• Po	<del>-</del>	it the safe	-	neter set to the device once more s, contact AMK service

# 3610 Safety - Warning During Operation

Device		KW-R07 /	-R17 safety m	nodule			A			
Description		A monitoring has detected a deviation from a limit value during operations								
Class		Warning								
Drive behav	our 💉	See error reaction towards the individual additional information Info1								
Device beha	viour		'92,0			.350		6,	100	
3610	Carago Carago	Info1	13	Warnin	g me	ssage m	onitoring cr	oss comm	unication	
	7,		7	Info2	3		s difference ted: SS1	between	2 monitoring channels	
	**************************************	,	Selfa.	4		Status difference between 2 monitoring channels detected: SS2				
Califo)	200	, the state of	Info3	3	Monit	Monitoring channel 1				
"Apor					4	Monitoring channel 2			2°,	
Error reaction	n	In case of	a warning in t	he monit	toring	of the cr	oss commu	nication, S	SS1 or SS2 follows	
Error rectific	ation	• Inf	o2 = 3, 4: resu	ılting erro	or			4		
3610	Info1	Tagko'i		Catalko i j			38	encode	g messages of the 'Safe er monitoring (SEM)' ring channel 1	
	W.Gpang						D.	Info2	3 Warning: Prm9 'Transition time in case of standstill' was exceeded	
Error reaction	•		piration of Prn STO)' follows a				ase of stand	dstill' an er	ror is generated and 'Save	
Error rectification	•	See 'PDK_	_	erheitsha	ındbu	ch_KW-F	R07, Safe E	ncoder Mo	onitoring (SEM)'	



3610	Info1	39				the 'S	Safe encoder monitoring (SEM)'
	aparior,		Info2	ring ch	Warnin exceed		m9 'Transition time in case of standstill' was
Error reaction		 r the expirati re torque off			eaction ti	me ir	n case of standstill' an error is generated and
Error rectification	• See						W-R07, Safe Encoder Monitoring (SEM)'
3610	Info1	40	Warnin	na mess	sage of c	omm	unication to P1
0010	11101		Info2	0	1		ocess is started
	10,	14.	11102		Info3	7-A	RF is active
		21/2			11100	1	Start identifier for flashing not found
						2	Identifier 'SPImon' not found
		<u>(3)</u>				3	Faulty state
	20/4			E. C.		10	SEEP reading invalid if RF is active
	Dalion.		SOLITOR			11	Parameter set transmission invalid if RF is active
	4 CA	122	750		1474	15	Parameter set transmission invalid if RF is active
Error reaction	• A w	arning of cor	nmunica	tion to	P1 can b	e cle	ared
3610	AMI Info1	75			sage of thannel 1	ne ha	ardware monitoring, switch-off path
	allowately.	,d	Info2	6	drivers Possib	coul le ca Pow inac	er output stage enable (EF) of the device is
Error rectification	• AMI	bably hardwa K service ng message (				new	dynamic check of the line drivers is done
3610	Info1	76			sage of than annel 2	ne ha	rdware monitoring, switch-off path
	dignificular,	mand	Info2	6	drivers Possib	coul le ca Pow inac	er output stage enable (EF) of the device is
Error rectification	• AMI	bably hardwa K service ng message				new	dynamic check of the line drivers is done



3610	Info1	104	Warnin	a mes	sage for the safety function 'Safe speed range 1 (SSR1)'
	3	xó			onitoring
		1000	Info2	0	Not to be evaluated
		410		3	Upper speed limit of the monitoring range was breached
		The state of the s		4	Lower speed limit of the monitoring range was breached
			Ramp	1	
			Info3		
	"Chr.		111103	0	Not to be evaluated
	500	1001 <u>110</u> 0	5	'	Actual speed value exceeds maximum permissible value (60000 1/min)
		71/0		8	Permitted speed range was exceeded
		They		9 🔏	Permitted speed range was fallen short of
				14	Permitted speed range was breached
	25		20	15	Monitoring window following end of ramp breached
Error reaction	re	action follows	(STO, SS	S1 or S	21.1
Error rectification		200			e drive has breached the limits
. A.O.	• Ac	djust paramete	erisation	to phys	sical conditions
3610	Info1	108	Warnin	ig mes	sage for the safety function 'Safe maximum speed (SMS)'
				_	onitoring
	20		Info2	3	Upper speed limit of the monitoring range was breached
	igher.		Sec.	4	Lower speed limit of the monitoring range was breached
Error reaction	• In	case of a war	ning in th	e mon	itoring of the safety function SMS, the parameterised error
		action follows			
Error rectification	• Cl	neck why the r	novemer	nt of the	e drive has breached the limits
	• Ac	djust paramete	erisation	to phys	sical conditions
3610	Info1	109	Warnin	a mes	sage for the safety function 'Safe speed range 2 (SSR2)'
2		100			onitoring
	"The		Info2	0	Not to be evaluated
	3	*0	111102	3	Upper speed limit of the monitoring range was breached
		109/11		4	Lower speed limit of the monitoring range was breached
		"H'.O"	Ramp		
		New Section	I		
			Info3	0	Not to be evaluated
	March .		NO.01	1	Actual speed value exceeds maximum permitted value (60000 1/min)
	Car.		100 m	8	Permitted speed range was exceeded
	0	~71C	0	9	Permitted speed range was fallen short of
		1900		14	Permitted speed range was breached
· My.		" May.		15	Monitoring window following end of ramp breached
Error reaction		case of a war action follows			itoring of the safety function SSR2, the parameterised erro
Error rectification					e drive has breached the limits



3610	Info1	110	Warnin	ng mes	sage for the safety function 'Safe speed range 3 (SSR3)'
	100		Movem	nent mo	onitoring
	May.		Info2	0	Not to be evaluated
	4	42		3	Upper speed limit of the monitoring range was breached
		W.		4	Lower speed limit of the monitoring range was breached
		_	Ramp	monito	
	N2	5.	Info3	0	Not to be evaluated
	" Sich,			1	Actual speed value exceeds maximum permitted value
	100		101		(60000 1/min)
	9200		3500	8	Permitted speed range was exceeded
	th.	124		9	Permitted speed range was fallen short of
		200		14	Permitted speed range was breached
		_		15	Monitoring window following end of ramp breached
Error reaction	• In careac	ase of a warr	ning in th	ne mon S1 or S	itoring of the safety function SSR3, the parameterised error S2)
Error rectification	• Che	ck why the n	novemer	nt of the	e drive has breached the limits
70 _{1/2}	• Adjı	ust paramete	risation	to phys	sical conditions
3610	Info1	111	Warnin	ng mes	sage for the safety function 'Safe speed range 4 (SSR4)'
Neg.		24		•	onitoring
			Info2	0	Not to be evaluated
		,Q	11102	3	Upper speed limit of the monitoring range was breached
	J. J.			4	Lower speed limit of the monitoring range was breached
	*OLU		Ramp		
	70977			1	
	17 C.	4	Info3	0	Not to be evaluated
		m		1	Actual speed value exceeds maximum permitted value (60000 1/min)
		6		8	Permitted speed range was exceeded
	The same	1.0		9	Permitted speed range was fallen short of
	May.		2	14	Permitted speed range was breached
"II ₀ "	TIO.		7,0,	15	Monitoring window following end of ramp breached
Error reaction		ase of a warr ction follows			itoring of the safety function SSR4, the parameterised error S2)
Error rectification		-			e drive has breached the limits
	• Adjı	ust paramete	risation	to phys	sical conditions
3610	Info1	112	Warnin	ng mes	sage for the safety function 'Safely-limited speed 1 (SLS1)'
	314				onitoring
	10 m		Info2	0	Not to be evaluated
	70317		3000	3	Upper speed limit of the monitoring range was breached
	4/10	12		4	Lower speed limit of the monitoring range was breached
		We.	Ramp	monito	
			Info3	0	
		,S	111103	1	Not to be evaluated
	Match			305	Actual speed value exceeds maximum permitted value (60000 1/min)
	"SOUTH		-SIJIO	8	Permitted speed range was exceeded
	" QD		(8)	9	Permitted speed range was fallen short of
	Za	2424		14	Permitted speed range was breached
		1	<u> </u>	15	Monitoring window following end of ramp breached
Error reaction	read	ction follows	(STO, SS	S1 or S	10
Error rectification	• Che	ck why the n	novemer	nt of the	e drive has breached the limits
					sical conditions



3610	Info1	113	Warnin	ig mess	sage for the safety function 'Safely-limited speed 2 (SLS2)'
	KO,	100	Movem	nent mo	nitoring
		1900	Info2	0	Not to be evaluated
		"April		3	Upper speed limit of the monitoring range was breached
		The same		4	Lower speed limit of the monitoring range was breached
			Ramp	monitor	ing
	Ha.K		Info3	0	Not to be evaluated
	io lipp	100	E.	1	Actual speed value exceeds maximum permitted value (60000 1/min)
		920		8	Permitted speed range was exceeded
		" My Las		9	Permitted speed range was fallen short of
		200		14	Permitted speed range was breached
				15	Monitoring window following end of ramp breached
Error rectification	• Ch	100	novemer	nt of the	e drive has breached the limits ical conditions
	• Ch	eck why the r	novemer erisation Warnin	nt of the to phys	drive has breached the limits ical conditions sage for the safety function 'Safely-limited increment (SLI)'
	• Ch	eck why the r just paramete	warnin Movem	nt of the to phys ig mess nent mo	e drive has breached the limits ical conditions sage for the safety function 'Safely-limited increment (SLI)' initoring
	• Ch	eck why the r just paramete	novemer erisation Warnin	nt of the to phys	drive has breached the limits ical conditions  sage for the safety function 'Safely-limited increment (SLI)' initoring  Not to be evaluated
	• Ch	eck why the r just paramete	warnin Movem	nt of the to phys ig mess nent mo	e drive has breached the limits ical conditions sage for the safety function 'Safely-limited increment (SLI)' initoring
	• Ch	eck why the r just paramete	warnin Movem	nt of the to phys og mess nent mo	drive has breached the limits ical conditions  sage for the safety function 'Safely-limited increment (SLI)' initoring  Not to be evaluated  Upper position limit of the monitoring range was
	• Ch	eck why the r just paramete	warnin Movem	of the to physics of the storage mession and the stora	e drive has breached the limits ical conditions  sage for the safety function 'Safely-limited increment (SLI)' enitoring  Not to be evaluated  Upper position limit of the monitoring range was breached  Lower position limit of the monitoring range was breached
	• Ch	eck why the r just paramete	Warnin Movem Info2	of the to physics of the storage mession and the stora	e drive has breached the limits ical conditions  sage for the safety function 'Safely-limited increment (SLI)' enitoring  Not to be evaluated  Upper position limit of the monitoring range was breached  Lower position limit of the monitoring range was breached
	• Ch	eck why the r just paramete	Warnin Movem Info2	of the to physics of the to physics of the to physics of the to physics of the top the	e drive has breached the limits ical conditions  sage for the safety function 'Safely-limited increment (SLI)' initoring  Not to be evaluated  Upper position limit of the monitoring range was breached  Lower position limit of the monitoring range was breached
Error rectification  3610  Error reaction	• Cr • Ac	ieck why the rijust paramete	Warnin Movem Info2	or to of the to physics of the storage mession and the	Actual speed value exceeds maximum permitted value (60000 1/min)  to drive has breached the limits ical conditions  sage for the safety function 'Safely-limited increment (SLI)' initoring  Not to be evaluated  Upper position limit of the monitoring range was breached  Lower position limit of the monitoring range was breached  Ting  Not to be evaluated  Actual speed value exceeds maximum permitted value (60000 1/min)  toring of the safety function SLS2, the parameterised error

# 4.23 No. 3840 ... 3869 Operating System

### 3840 File access

	- No.		
	2.5,	795,	
Pig		Light Light Light	
100			
.1087			
System run	-up aborted		4
nation (AMK	Service)	M. M.	21/4
Info 1	2	Wrong parameters transferred	
,	3	Illegal file name	
1/25	4	Floppy drive not found	
-01/10	5	To many files open	
~9 ₁₂	6	No more files found	
(0)	7	Wrong device identified	- 1
	8	Unknown data system	"The
	9	Can not find file name	
	10	Unknown filehandle has been transferred	
	11	Device is not supported	
400	12		
7/20	13		
900		1007	
			157
			-67
S.C	70	-0.	
200			
100			
7000	1		
			- 4
			44
. (	.00		
20/			
-000			
2012		2) 2)	
C)		40	-2
			77.72
160			
- 100 m			
270.	1		
90,			
			-44
	1		24
	-	File is to big	
	nation (AMK	Info 1 2 3 4 4 5 6 6 7 8 9 10 11	Info 1 2 Wrong parameters transferred 3 Illegal file name 4 Floppy drive not found 5 To many files open 6 No more files found 7 Wrong device identified 8 Unknown data system 9 Can not find file name 10 Unknown filehandle has been transferred 11 Device is not supported 12 Function is not supported 13 Error partition table 14 Too many devices present 15 Wrong file position stated 16 Access not possible (access right is active) 17 Text buffer is to small 18 General device error 19 Path not found 20 FAT is defect 21 Root directory is full 22 Floppy drive is full 23 Timeout 24 Defective sector 25 Data error (checksum) 26 Device has been changed 27 Sector not found 29 Floppy drive not ready (e.g. no disk) 30 Floppy is write protected 31 DMA-Overrun 32 CRC-error 33 Device resource-error 34 Defective sector size 35 No buffer available 36 File already exists 37 Data position out of range

Device							
Description							
Class	Warning		9		9	9	
Drive Behaviour	Mrs.		Tho.		743.	The same	
Device Behaviour	T. S.		The same	-6	20.	T. B.	
Additional Error Info	mation (AMK	Service)	50	N. S.		770	2760
190		190		(9)		900	, db
Error Removal		The same	,	1/4.	"Fl.Ag.,		774.

## 3842 System diagnostics

Device	xo*` xo*`					101	
Description		7020	70,00		035	7000	
Class	Warning	"Miles	747	-47	9	"April	
Drive Behaviour		274	110	24,		2/4	
Device Behaviour							
Additional Error Infor	mation (AMK	(Service)	,?``				
21/1	201	201		10,0	- Aldre		
Error Removal	.6	"01/1	70,		, of	,01	

# 3843 System diagnostics

<ul> <li>Internal comm</li> </ul>	unication: Source mod	ule does not exist (not logged	d in?)	
Device	9	9	9	6
Description	An access attempt logged in)	came from a module unknow	n to the internal communica	tions system (i.e., not
Class	Warning	740, 740	"Afo,	"Ito,
Drive Behaviour	79.	1900	1900	1900
Device Behaviour	Ty.	Ty.	"HLM".	Ty.
Additional Error Infor	mation (AMK Service	40	10	20,
Error Removal	13.8	13.7	73%	13.X

Device	The state of the s				
Description	An unknown targ	get was addressed (via	routing "ID32944 SY	ADR").	
Class	Warning	28	2	20	
Drive Behaviour	2010	72/L	24		
Device Behaviour	300	- Olling		- SCO	
Additional Error Infor	mation (AMK Serv	ice)	~917g	~97g	731JE
7/0	3	(0),	77.00,	77,00,	7740
Error Removal	747	line and the second		741	The same



0	(2)	(8)	(8)	(8)	<
Device	13			- Calary	
Description	A target has bee	en accessed that is	already occupied b	y another source mod	ule.
Class	Warning		8	6	9
Drive Behaviour	The same		\$ · · ·	No.	No.
Device Behaviour	Tay.	Mary.		Clar.	Tay.
Additional Error Infor	mation (AMK Serv	rice)		Ò.,	7/10.
900	900	'92 ₀	900	<i>J</i> D	0
Error Removal	43	May.	7741	"I'In.	"V _d ",

### 3846 System diagnostics

<ul> <li>Internal commu</li> </ul>	nication: A modu	le has logged or	n that already exists (	number already as:	signed?)	
Device	KOL.	10%		10 C	KOL.	
Description	7000	7000	26	85	7020	,
Class	Warning	71/0	4/0		7/10	41
Drive Behaviour		2/4	27,	10,		274
Device Behaviour	System run-up	aborted				
Additional Error Inform	nation (AMK Sei	vice)				
Sight.	To the		27/2	igh.	THE STATE OF THE S	
Error Removal	*OLL	, of	Co.	, of 1	, of 10	

# 3847 System diagnostics

<ul> <li>Internal comm</li> </ul>	unication: The eleme	nt code is unknown		4	4
Device	9	9	-	3	9
Description	Tho.,	"Tho."	. No.		Ks.
Class	Warning	Carrier Carrier	No.	The state of the s	7
Drive Behaviour	276	276	770	2/2/0	
Device Behaviour	Sp.	1900	100		
Additional Error Info	rmation (AMK Service	;e)	N _{th} .	The same	The state of the s
4		110	da.	A.	4
Error Removal	2	2			2

<ul><li>Internal comm</li></ul>	unication: Too many modules	have logged ir	1000		
or					
<ul> <li>Internal comm</li> </ul>	unication: Too many paths hav	e been opene	d 📈		
Device					
Description	20,	2.9	20,0	2.0	
Class	Warning	27/2	12/1	The state of the s	
Drive Behaviour	*Off"	*Office	,off, -	*Olu	
Device Behaviour	System run-up aborted	82,	10 July 1	2000	
Additional Error Info	rmation (AMK Service)		"4' _(O)	74 ⁷ O.	24 L
12	7,72		May.	Try.	252
Error Removal					

<ul> <li>Internal comm</li> </ul>	unication: Prot	ocol or com	nmand order	r is incorrect		71/02		7/07
Device		The state of the s		"III"		7200		The state of the s
Description								
Class	Warning		9		9		9	
Drive Behaviour	Mrs.		Tho.		The.		Tho.	
Device Behaviour	- Carrie		The same		Clar.	-6	Ø.,	_6
Additional Error Info	mation (AMK	Service)	9	Tu _n	9	alico.		
(2)		190		. 600		. 650		
Error Removal		alla.	•	T ₁ I ₁ I ₁ .		TIN.		The.

## 3850 System diagnostics

A bus connecte	d to the inte	rnal communication is r	not in standby me	ode (e.g., SBUS toke	en error)	_0
Device	3	100	100	7	KOTO TO THE STATE OF THE STATE	1000
Description		7000	700	20	300	7000
Class	Warning	14/10	14/10	"His		"Afficial
Drive Behaviour		II.	27,	274		274
Device Behaviour						
Additional Error Inform	nation (AMI	K Service)				
-3G/ _c	201	"Ide		A. C.	- Side	_0
Error Removal	5	,o ⁽¹⁾	20%		XOTT.	707

# 3851 System diagnostics

	mmunication path has be sed for a fixed period (blo		nodule by writing to	routing "ID32944 S'	YADR" and has no
Device	16°S,	10.8	163	No.	5,
Description	Timeout internal com	munication	190	N. S.	
Class	Warning	(0)	710	7/0	7/10
Drive Behaviour	1900		1900	190,	1900
Device Behaviour	24,	12	4.	Ty.	"May".
Additional Error Info	mation (AMK Service)	24,		20,	27.
Error Removal	79.5.	79.S.	79.5	J. 0.	5.

<ul> <li>An internal con</li> </ul>	nmunication p	ath specified	d by a modu	le is not valid or is	no longer valid.		41,0
Device		May		1424	42,		Tru,
Description							
Class	Warning		20		, g)	20	
Drive Behaviour	The same		"Afre	Es	-	in the	
Device Behaviour	300		W.C.	Mr.		-010°	
Additional Error Infor	mation (AMK	Service)		~ Alls	~i	No.	Zalli.
77(0),		77(0),		77/01,	7/0),		77,07,
Error Removal		"The		"Ing.	1274		"Tolo.



101/	100				17
module setting					
AS-PL15	The same		The state of the s	71/2	720
AS-Cxx-1					
9		9		9	9
Error		Tho.		The.	Tho.
Car,		Car.	.6	(3),	Typ.,
2/10	270	).	276		770
nation (AMK Ser	vice)		900	(3)	<
20	77.7		No.	21/21	The state of the s
Check parame	terisation		14	12.	12.
	AS-Cxx-1  Error  mation (AMK Ser	AS-PL15 AS-Cxx-1	AS-PL15 AS-Cxx-1  Error  mation (AMK Service)	AS-PL15 AS-Cxx-1  Error  mation (AMK Service)	AS-PL15 AS-Cxx-1  Error  mation (AMK Service)

# 3854 System diagnostics

<ul> <li>Router memory</li> </ul>	overflow of the in	iernal buffer 🌕		10°C	
Device	AS-PL15		361	89	30 ⁰ 0
	AS-Cxx-1				
Description		21/4	212	The state of the s	Ma
Class	Error				
Drive Behaviour	20,		20,	20,	2.2
Device Behaviour	S. C. L.	,	3/6	19/10	The same
Additional Error Inform	nation (AMK Ser	vice)	9	.000	. O. C.
NO. O. C.	May a	200	V.	200	NO DE
Error Removal	Check paramet	terisatin	760.	.4.5	

### 3855 System diagnostics

Device	AS-PL15	Mar,	Kar,	Typ.	,
	AS-Cxx-1				
Description	920	1900	190	90,	
Class	Error	My.	The same of the sa	My.	My.
Drive Behaviour		2,	4,	1,	20
Device Behaviour					
Additional Error Info	rmation (AMK Servi	ce)	70.	K. Marie	
1910	190	190	190	190	
Error Removal	Check parameter	risation	10,	201	

### 3860 ADB-File access

<ul> <li>Access to para</li> </ul>	meter data	bank ADB not	possible				
Device		20	28	0	3	28	
Description	X	3/2	12/2	The same		20/2	
Class	-0100		-0/Lib	- 560	.6	70	
Drive Behaviour	120 P		797g	N. S.	May		
Device Behaviour	System r	un-up aborted	30,	7:00	77,0		77.1
Additional Error Info	mation (AM	IK Service)	3	121	u,	4	Tay.
	Info 1	0	No adb-file found				
9		ð	File can not be oper	ned	9	9	
The	×	2	Read error	The	,	"The	
ALIO.	7/1/2	3	General File interpr	etation error (e.g	. checksum, versior	ī,)	
Error Removal	C	heck ADB or to	ansfer again	- 31/10	- 100		



# 3861 System update

<ul> <li>Firmware upda</li> </ul>	te AMKAMA	C not succe	ssful (RTB-File fau	Ity or BOOT-Device could	not been generated	d) (t
<ul> <li>Firmware upda</li> </ul>	te option AS	S-FCT1, AS-I	FCT2 not successfu	ıl, Hex-File faulty		
Device						
Description	9		9	9,	9,	
Class	Mrs.		"Jr.	"Ma.	"Th3."	
Drive Behaviour	The state of the s		Mar	Mat	Mar.	26
Device Behaviour	System ru	un-up aborte	ed .	alite	NICO .	210
Additional Error Inform	mation (AM	K Service)		. 600	G.	. 460
. Ala.	Info 1	1 - 14	Software update	te not successful	7.	The state of the s
4		30	Firmware upda faulty	te option AS-FCT1, AS_F	CT2 not successful	Hex-File
Error Removal	13.5.	•	70.5	73.5	79.5.	
	- 11		- 11		. 11	

<ul> <li>Error during sys</li> </ul>	tem start or	update	Ò,		110.	1/10.	
Device	A5	90,		90,	.85°	1900	
<b>Description</b>		The same		The same	New York	Tru.	
Class	Error	20		120	10	20	
Drive Behaviour	A		2		2	2	
Device Behaviour	10.7		12.7		73×	15.7	
Additional Error Inform	nation (AM	K Service)	14 July 1		Vig.	3	
70	Info 1	18	Timeout Pr	oblem du	ring System Startup	10	
1900		19	Hardware I	Problem	during System Startup	7000	
The same		20	Error while	flashing	I/O card	The state of the s	
41,		21	Error while flashing I/O card				
			Info 2	1	Task is invalid	_	
	12.5		13.5	2	Command from CMD file is i	nvalid	
	Sig.		20.	3	Memory problem	3,	
	8	30	25.	4	Binary file not available for f	lashing	
		1000		5	Target module not available	200	
		This is		6	No firmware in binary file	THI.	
		The same		¹ 7	Invalid binary file	M.	
		22	Error in hos	st synchro	onisation		
10.P	10.5	30			option AS-FCT1, AS-FCT2 faile	ed, hex file corrupt	
Error Removal	30		" Sept.		74 ₀	37	



Device		4	72,	The state of the s
Description		- 19	- in - in -	- 67
Class	Warning	À		
Drive Behaviour	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	è.	- 10 10 10 10 10 10 10 10 10 10 10 10 10	
Device Behaviour	100			
Additional Error Inform	nation (AMK	Service)		
Additional Error inform			ss (user program)	
2	Lxception	16	Task monitoring failed	17
40,		17	Hardware monitoring failed	42
		18	Bus error	
		19		
- Aller	27/	20	Check sum error on program loading Field bus error	
, of C	XQ.	21		
100 N	100/1	22	I/O map update failed	
2,	(Q),	23	Cycle time exceeded  "Online change" program too large	. P.
14/1				- 14/4
		26	Retain-memory to small or not available (AS-FCT1)	
		27	Boot project could not be loaded, it was deleted	
70.	. A	39	PLC overload	
	160.	80	Invalid instruction	
300	300	81	Access infringement	
\$,	. B.	82	Privileged instruction	
	9	83	Page error	- 44
1,		84	Stack overflow	2,
		85	Invalid arrangement	
	N.	86	Invalid access code	
19d,	2001	87	Access to protected page	
305	301	88	Double error	
100°	7087	89	Double error	
3	400	256	Access to uneven address	S.
124		257	Array limit exceeded	200
		258	Division by zero	
		259	Overflow	
"He is	100	260	Not ignorable exception	
	. No.	336	Floating point unit: General error	
18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Man.	337	Floating point unit: Not normalized operand	
),	160,	338	Floating point unit: Division by zero	- 1
2527		339	Floating point unit: Inaccurate result	May
		340	Floating point unit: Inaccurate instruction	
Q.		341	Floating point unit: Overflow	
The	1/2	342	Floating point unit: Stack check failed	
ACC.	Mo	343	Floating point unit: Underflow	
Pallic.	Exception 65536	AMKAMAC	System program	

<ul> <li>Router memor</li> </ul>	y overflow into	ernal buffer			
Device	AS-PL15 AS-Cxx-1	Naga,	May	The state of the s	M
Description	8		A .	8	8
Class	Error		16.	The same	The same of the sa
Drive Behaviour	Car.		May C	(b)	100 m
Device Behaviour	60	7/6	370	1/10	
Additional Error Infor	mation (AMK	Service)	'90,	(1)	'Yz, .
"The	Info 1	0	Timeout PGT task	The state of the s	My.
14.		1	Time overflow copy com SERCOS)	mand (e.g. to many data	a's configured with
79%	7.35	2	PLC controller configura	tion error	J. 8.
90,	Sign.	3	Too many asynchronous		ERCOS cycle time"
3	Ó	4 🗴	Time overflow "timer task	k" <u>k</u> Ó	500
		5 1000	Time overflow EtherCAT	"send task"	7000
14/5		6	Time overflow task "cycli	c"	7/6
The state of the s		7	Access to not configured	l input	My,
		8	Access to not configured		
26	25,	10	System exit	28	, \$\frac{1}{2}
,15 ¹⁶	io laga.	11	Battery error, all the BIOS into a flash module. The system time will be solded to 1.01.2001.		, because they are saved
"III.		12	File system error	74/2	747.
T ₁		13	Temperature error	12,00	1/4
		14	Error in initialisation of th	ne system library	
7.9%	73.6	15	Checksum error in root f	ile system	78'S.
Error Removal	Check par	ameterisatio	n XY	101	ACT.



Device	A5		**************************************
Description	Error / wai	rning on syste	m runtime
Class	Warning /	Error	
Drive Behaviour	2/1	74,	
Device Behaviour		7/2	11, 11, 11,
Additional Error Infor	mation (AM	( Service)	
195	Info 1	0	time overflow PGT task in PLC
"SIAM"	-201	1	time overflow copying functions (e.g., too much data in configuration)
NOTT IN	,Off	2	Error in PLC controller configuration
1081)1"	10977	3	Too much asynchronous transmission data per "ID2 SERCOS cycle time"
(S)	7) (O.	4	Overflow of internal timer
The state of the s		5	Overflow of EtherCAT transmission task (e.g., too much data in configuration)
6		6	Overflow of cyclical task, system is overloaded
	Ex.	7	Access to unassigned communications input data
	Mar.	8	Access to unassigned communications output data
	2010	9, 10	Internal error
	14 B.	11	Battery error, battery is empty     All BIOS values are kept because they are stored in the flash module.     The date and time are returned to their default values.     Please send the device to AMK for repairs.
	Es.	12	Error checking file system for PLC program and parameters. Please send the device to AMK for repairs.
	10 Holling	13	Temperature error. Device was operated at an excessively high ambient temperature.
	7/0,	14	Internal error
		15	Error checking Linux file system
		20	Error in runtime system P3
200		3	Info2 Information about cause of error -> AMK Service
STAN STAN	la de	21	Error at activation of backlight function
Error Removal	-01/4	l	- 10 10 10 10 10 10 10 10 10 10 10 10 10

### 3864 Bus Configuration

- Testing configuration of the buses
- Test cycle time ID 2 for the buses. The values in the different instances must in each case be divisible by all smaller values
- Ethernet faultily parameterised

Device	10					
Description	90,0		900	1900	1200	5
Class	24	72	17.	Pay.	741	Ty.
Drive Behaviour		24		10,	11,	2,
Device Behaviour	System ru	n-up aborted				
Additional Error Infor	mation (AM	(Service)	48	² /2,	192	2.
2121	Info 1	1	Bus Master	r or slave definition inva	lid	
100	800	2	"ID2 SERC	OS cycle time" in the di	fferent instances invalid	
Reg .	14 Ch. 1	3	• IP addres	double parameterized; s ses invalid (see Ethern AS card address" inval		tocol"
			Info 2	Ethernet instance		
Error Removal		3.5	5/2	² 6.	19'S.	7.6,



N.O.	N.O		Mo.		NIS.		0
<ul><li>System config</li></ul>	guration		Sept.		Sept.	Age Comment	
Device	A5	.3	ò,,		10,	70,	30
Description	Error in s	system configu	uration	196,0		1900	.800
Class	Error	141,		" Thy		"Thy.	"The
Drive Behaviour		2/2		27.		1/2	77
Device Behaviour							
Additional Error Info		K Service)	13.5		73,5	SI ²	3. ² .
90,	Info 1	1	Bus master				
	<u> (Ö</u>	2				alid in the different ins	
		3	• IP addres	ses invali	d (see Ethe	see "ID34140 AS BU ernet configuration) valid, incorrect slot nu	"Alicon
			Info 2	Ethe	rnet instan	ce	
14.S.	13.5	4	Invalid don	gle code,	device not	enabled for this comr	nunication
	Caje Vic		Info 2	Insta	ince	1979	
	30	6	Invalid con	figuration	"ID32917	Time zone"	38
'92,	,	7	Internal err	or 👸	,	'92,	'92°
		8	Invalid bus	type, che	ck "ID3414	0 AS BUS protocol"	
		2,	Info 3	Insta	ince	1,	A.
9	6	9	Error durin	g bus initi	alisation		9
	Cighon		Info 2	1	Invalid b	us type; D34140 AS BUS proto	ocol"
	30	, Š	, ,		Info 3	Instance	35
		.HH!ODO		2	Invalid b	us type; D34025 BUS mode"	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		27		2,	Info 3	Instance	47.
	A		<i>A</i>	5	Bus not	ready, I/O option does	not exist
	160.14		May.		Info 3	Instance = 3	ò×
Error Removal	- 60				1004		

# 3865 Software version option

Device	9				
Description	"Tho."	Mo.	The.	"The	
Class	Co.	-Car.	-02	-40	_<
Drive Behaviour	7	7/10	NIG.	all le	"Ille
Device Behaviour	System run-up a	borted	. 60	Contract of the contract of th	
Additional Error Inform	nation (AMK Serv	rice)	14.	Ala.	ale.
4,	4.	Instance of the	e not compatible option	on module	4.
Error Removal					2



Device	AS-PL15 AS-Cxx-1						
Description		9	8		8		8
Class	Error	9.7	The.		Mrs.		Though a
Drive Behaviour	The state of the s		Elit.		Tal.		Car.
Device Behaviour	7710.		7/10.		11/10	100	).
Additional Error Inform	ation (AMK	Service)	'90°		'9 ₀ ,	120,0	
77.70	Info 1	1 35	Update is fault	ty whic	ch is controlled by	the configuration	n file
		27	Info 2	2	Configuration f	ile faulty	4,
		A		10	Invalid device	data	À
	14	3.2	10,4	11	Invalid ID selec	ction	163.4
	HOIT BILLY		"HOLLIGE"	17	Invalid configu data record	ration for genera	tion of the device
SQ _Q	9200	2	Devices can n	ot be a	accessed over fiel	ldbus	
77		3	Timeout during	g upda	ate	72	- 12
147		4	Data record do	100		12.	10,
Error Removal	Sel	1 = 4: ect a fitting da eck configura	ata record tion of fieldbus		1840)	>	"ightadi

date		.202		.300	1200	
A5	12	12.	- 2	Alice Contraction of the Contrac	74/2	122
Error in pa	rameter upda	ate functionality	27	3	17	27
Fehler						
	9.5.			13.5	785	
30	,	200		314	197	
mation (AMK	(Service)	10/2		10°C	10/1	
Info 1	1	Internal error		2000	7000	
7/1/2	2	Device could	not be a	accessed	41.00	. 4
4	772,	Info 2	1 35	ASC-Bus	let.	27.00
			2	CC-Bus		
	3.5	Info 3	Busac	dresse	200	
250	3	Timeout com	municat	ion	200	
70	4	Data record	does not	fit to device	10/2	
7000		70%		70%	70,00	
	Error in pa Fehler mation (AMK	A5 Error in parameter upda Fehler  mation (AMK Service) Info 1 1 2	A5 Error in parameter update functionality Fehler  mation (AMK Service) Info 1 1 Internal error 2 Device could Info 2 Info 3 Timeout com	A5  Error in parameter update functionality Fehler  mation (AMK Service)  Info 1	A5 Error in parameter update functionality Fehler  mation (AMK Service)  Info 1	Error in parameter update functionality Fehler  mation (AMK Service)  Info 1

<ul> <li>Error during in</li> </ul>	itialisation o	f system		(0)	100	30
Device	A5	The state of the s		The same of the sa	220	The state of the s
Description				-		-
Class	Error		9	9		9
Drive Behaviour	Thou.		140.	Thou	- X+	Ď.,
Device Behaviour	Car.		The state of the s	-C.S.	T. Carrier	
Additional Error Info	rmation (AN	IK Service)	0	7/10	2/2/0	7/10
1000	Info 1	1 00	Error in mo	dule communication	s, source module doe	s not exist
n.		2	Error in mo	dule communication	s, target module does	not exist
d.		3	Packet tran	sfer error in DPM ga	iteway	4.
<i>A</i>	A	4	Error initial	ising real-time data		À
Nox	163.4	5	Error initial	ising slave interface	(P2)	9×
Car.	Car.	6	Error initial	ising master interfac	e (P3)	,
3	20	8	Error in me	mory allocation	7/20,	7/6
'9 ₀ ,		9	Error in me	mory allocation	'920	1900
The state of the s		10 - 12	Internal err	or	Tel.	uy.
		27	Info 2	Modulnummer	14,	14,
Error Removal		I		2		À

Device	A5						
Description		7700		7/02	7/0		1100
Class	Error	11/1/2		777	727		The same
Drive Behaviour					-		-
Device Behaviour	9		9	9		9	
Additional Error Inform	nation (AM	K Service)	Tho.	"The."		Tho.	
(Sr.)	Info 1	1	Error in mo	dule communications	s, source modul	e does not ex	rist
7/2		2	Error in mo	dule communications	s, target module	does not exi	st
(4)		3	Packet tran	sfer error in DPM gat	eway		(d)
THE.		4	Error initial	ising real-time data	1974		The same
4.		5	Error initial	ising slave interface (	P2)		4
8	4	6	Error initial	ising master interface	(P3)	A	
Ko.	15.	8, 9	Error in me	mory allocation		163.	
(g)	Car.	10 - 12	Internal err	or		100°C	-
	2)	200	Info 2	Module number	7/1/2		7710
Error Removal		(0)		- 35°°	.75°		100



### 3869 I/O Optional Card

Device	A5					
Description	Error dur	ing initialis	ation of system			
Class	Error	9	9	6	9	
Drive Behaviour		The.	"7k2	The same	"Tho.	
Device Behaviour	100	0.7	-C. 20.	-Kigh.	"Clar.	
Additional Information	n (AMK Ser	vice)		7/10	NIG.	
GO.	Info 1	10	Incorrect check sum	. 60°		
	120	11	Incorrect SPI message	e ID	444	"The
4.		12	Protocol error		4.	11-
2		13	Error SPI real-time tran	nsmission data	à	h
No.x		14	Error SPI real-time rec	ception data	160.4	
Error Removal	200	0)	N. P. C.	Val.	18 July 19 19 19 19 19 19 19 19 19 19 19 19 19	

### 5 AW/AZ/KU internal bit blocks

The displayed bit blocks classify the individual error causes and serve for the system-internal overview. Direct access to this information is possible only using the service monitor. The addresses of information depend upon the system configuration and the software level and are thus variable.

5.1	Bit block AZ_ERR_1	.010°	5.2	Bit block AZ_ERR_2	
Bit	Meaning	Error codeAZ	Bit	Meaning	Error code AZ
0	Ser. EEPROM checksum error	1	0	AZ temperature error	17
1	Ser. EEPROM write error	2	1	Mains fault or fuse defective	18
2	EPROM checksum error	3	2	Line voltage error	19
3	RAM error	4	<u></u> 3	No SBM	20
4	Par. EEPROM checksum error	5	4	Line voltage > 460 V	21
ر 5	Par. EEPROM write error	6	5	Line voltage < 340 V	22
6	AZB error	7	6	Blocking time for UE not ended	23
7	Ser. receive 1 error	8	7	Switching frequency too high	24
8	Ser. receive 2 error	9	8	DC bus charging faulty	25
9	Watchdog reset	10	9	Phase error L1	26
Α	BAV timeout	11	A	Phase error L2	27
В	Programm stack overflow	12	В	Phase error L3	28
C s	System stack overflow	13	С	Phase sequence L1/L2 or fuse	29
D	System stack underflow	14	D	Phase sequence L2/L3 or fuse	30
E	Controller error	15	Е	Phase sequence L1/L2/L3 or fuse	31
F	Reserve	16	F	Phase sequence L1/L2/L3"-	32

5.3	Bit block AZ_ERR_3	20.	5.4 Bit block AZ_ERR_4				
Bit	Meaning	Error code AZ	Bit	Meaning	Error code AZ		
0	Fault +12 V	33	0	Cooling air overtemperature	49		
1	Fault -12 V	34	1	External component overtemperature	50		
2	DC bus overvoltage	35	2	Power supply unit overtemperature	51		
3	Regeneration fault	36	3	Feeding/regeneration overtemperature	52		
4	Braking transistor fault	37	4	Line overvoltage	53		
5	Reserve	38	5 .	Line undervoltage	54		
6	Reserve	39	6	Pulse input encoder fault	55		
7	Reserve	40	3 7	Encoder fault E1, OPT1	56		
8	Reserve	41	8	Encoder fault E2, OPT1	57		
9	Reserve	42	9	Encoder fault E3, OPT1	58		
Α	Reserve	43	Α	Encoder fault E4, OPT1	59		
В	Reserve	44	В	Encoder fault E1, OPT2	60		
С	Reserve	45	C	Encoder fault E2, OPT2	61		
D	Reserve	46	D	Encoder fault E3, OPT2	62		
Е	Reserve	47	2) E	Encoder fault E4, OPT2	63		
F	Reserve	48	F	Encoder fault E1, OPT3	64		

5.5	Bit block AW_ERR_1	Mar,	5.6 Bit block SYS_ERR (SERCOS)				
Bit	Meaning	Inverter error code	Bit	Meaning	Inverter error code		
0	Phase U short-circuit	1	0	EPROM memory error (checksum)	17 ¹⁾		
1	Phase V short-circuit	2	1	RAM memory error	18 ¹⁾		
2	Phase W short-circuit	3	2	ASIC error	19 ¹⁾		
3	Supply voltage error +12 V	4	3	A/D converter channel 1 defective	20 1)		
4	Supply voltage error -12 V	5	4	2	21 ¹⁾		
5	Undervoltage error	6 ¹⁾	5 X	3	22 ¹⁾		
6	Motor encoder error	7	6	4	23 ¹⁾		
7	Output terminal ground fault	8	7	5	24 ¹⁾		
8	Synchronous running error	9	8	6	25 ¹⁾		
9	Master synchronous telegram error	10	9	7	26 ¹⁾		
Α	Inverter controller clock error	11	Α	A/D converter channel 8 defective	27 ¹⁾		
В	*OC.	12 ¹⁾	В	Watchdog	28		
С	Wrong rotation direction external encoder	13 ¹⁾	С	Position growth too large	29		
D	Excessive control deviation	14	D	Reserve	30		
Е	$n_{ist} > n_{max}$	15	E	Reserve	31		
F	Output stage enable (EF) inactive	16	F	Current command value analog at the slave	32		

¹⁾ is not yet evaluated

5.7	Bit block AW_STÖR	5.8 Bit block SYS_ERR				
io,			RCOS interface ® - Status class 1)			
Bit	Meaning	Bit	Meaning			
0	No clock enable acknowledgement	0	Nominal current exceeding (current limit integral)			
1	No magnetizing possible	1	Inverter overtemperature			
2 💍	Operation mode for inverter not acknowledged	2	Motor overtemperature			
3	Communication on AW	3	Reserve			
4	Communication on AZ	4	Supply voltage error (+/-12 V)			
5	Reserve	5	<encoder error<="" td=""></encoder>			
6	Reserve	6	Reserve			
7	Reserve	े 7	Short-circuit/output terminal ground fault			
8	Awn overload	8	Reserve			
9 🔇	Awn overtemperature	9	Undervoltage error (DC bus not connected)			
Α	Motor overtemperature	Α	Reserve			
В	Reserve	В	Excessive control deviation			
С	Reserve	С	SERCOS interface ® communication error			
D	Reserve	D	Reserve			
Е	Reserve	βE	Reserve			
F	Reserve	F	Manufacturer-specific error see inverter_ERR_1ERR_3 or diagnostics			

Additional AW faults acquired by the AZ (bit blocks) are created as AW_STÖR for each drive. Only faults/warnings and ERRORs

which are acquired by time-critical programs (system graphs) are entered to make them available for diagnosis

These messages are formed by corresponding driver programs. This bit block is a summary of the previously defined bit blocks according to the SERCOS interface® status class 1. It is formed in the central module in the case .of an error.

### 5.9 Real time bit block AW_MESSAGE

Bit	Meaning			
0	N _{command} - N _{feedback}   < Nwindow (N _{feedback} = N _{command} ), ac	cording to window IE	D157	35.
1	N _{feedback}   < Nmin, according to window ID124	The.	Thu.	744
2	N _{feedback}   < n _x , according to window ID125	4	4	4
3	M _{feedback}   > M _x , according to window ID126	9	9	
4	M _{feedback}   > M _{limit} , according to ID82, ID83	Mo.	740.,	
5	N _{command}   >   N _{limit}  , according to ID38, ID39	K	The state of the s	
6 🐧	SA < SA _{limit} , according to window ID57	"II'C.	Nic.	
7	P _{feedback}   ³ P _x , according to window ID158	1900	(g)	
8	Software limit switch negative, according to window ID50	My.	May.	Tru.
9	Drive angle synchronous, according to window ID228	La.	2,	10
Α	Drive position synchronous, according to window ID32952	2	À	
В	N _{feedback} ³ 0, as from AW version AW 0210	Max	FOX	
С	Feedback value acknowledgement calibrated	Carlo.	Nage,	
D 3	Residual distance was deleted, according to window ID32922	710,	710	
E,°	Overcurrent message: Utilization > 50% of the overload limit	1900	1900	5.
F	Software limit switch positive according to window ID49	74,	74/,	24,

Key:

N Speed, M Torque, P Power, X Position, SA Following error

# 5.10 System bit blocks

SYS	_INP	SYS	OUTP	(42)
Bit	Bedeutung	Bit	Bedeutung	Tala.
0	FL (error deletion)	0	SBM (group ready message)	
1	UE (inverter ON)	1	QUE	
2	Reserve	2	Reserve	
3	Reserve	3	Reserve	-6
4	Reserve	4	Reserve	NIG.
5	Reserve	5	Reserve	(3)
6	Reserve	6	PR_POS (touch probe, positive edge)	True.
7	PR_EN (enable measuring function)	7	PR_NEG (touch probe, negative edge)	11-
8	RF1 (controller enable AW1)	8	QRF1 (acknowledgement RF AW1)	
9 🕡	RF2 (controller enable AW2)	9	QRF2 (acknowledgement RF AW2)	
Α	RF3 (controller enable AW3)	Α	QRF3 (acknowledgement RF AW3)	.0
В	RF4 (controller enable AW4)	В	QRF4 (acknowledgement RF AW4)	710
С	RF5 (controller enable AW5)	С	QRF5 (acknowledgement RF AW5)	190,0
D	RF6 (controller enable AW6)	$\mathbf{D}_{ij}$	QRF6 (acknowledgement RF AW6)	"Tay.
Е	RF7 (controller enable AW7)	Æ	QRF7 (acknowledgement RF AW7)	24
F	RF8 (controller enable AW8)	F	QRF8 (acknowledgement RF AW8)	

### 6 KE messages via LED-block

### 6.1 LED status display

Status and diagnostic messages are displayed via LED block in the compact supply unit KE. In KE/KW network systems additional to the LED display it is possible to read the diagnostic number via bus system.

System ready signal SBM is reset in case of an operation error. Error code is displayed via LED field H1. Activation of error reset through a L/H signal at binary input FL (error reset).





H1: LED field

LED 1, 2 und 4 green LED 3 red

## Display status

LED display	Meaning	2,	1,	24,
	"System ready"	2	2	
	<ul> <li>Boot up of compact supply unit command "DC bus enable ON"</li> </ul>		not activated yet. Waitin	g of control
00	in the state of th			
	MARA TO			
	"DC bus" UE is active.			
9	<ul> <li>DC bus voltage has been estal</li> </ul>	olish via main power on	and no error occurred	
	<ul> <li>Acknowledge via "DC bus ena</li> </ul>	ble" QUE=1 handshake.		
00	*Cl.Ugg.			
70/20	70gg			
8	THE STATE OF THE S			
	"Activation of regenerative operation"	ARS is active.	4,	1/2
0 0	Regenerative operation is active in KE power supply unit with research.		bus voltage	
C. C.	. (g)°			

### 6.2 LED diagnostic display

After an error occurrence the power supply unit KE is reset to a safe mode and a diagnostic message is displayed. In this case the red LED is always ON.

System behavior in error case:

- Regenerative function is de-activated
- Reset of system ready signal (SBM = 0)
- Power supply unit KE is disconnected from main power line
- · Discharge of DC bus voltage via external braking resistor
- Reset of QUE
- System ready signal (SBM = 1) after successful error reset

### Diagnostic overview

.ED Display	Meaning / Error ca	auses		-21/2"	- W			
	Power reset	(g)	(0)	(G)	(0)			
	<ul> <li>Missing su</li> </ul>	pply voltage 24 VDC e	xtern					
0.0	<ul> <li>Power-On-</li> </ul>	Reset-condition during	g power up					
0 0			• • •	es)				
0 0	T OWO! 1000	Power reset during operation (sag of power supply voltages)						
	"ISA.							
	Miles							
	32	70						
	Limit main power		95,117	(d)	1900			
	- 19		n 530 VAC or smaller tha	an 320 VAC for time per	iod > 6.4			
• 0	<ul> <li>At least one</li> </ul>	e phase missing at X20	0.					
	<ul> <li>At least one</li> </ul>	At least one phase missing at X01						
	, (g)							
	:3/Lo							
	"(Clar.							
	Phase sequence	L1/L2/L3	720.	720.				
			0 does not correspond w	vith   1.1.1.2.1.1.3.1.at X	01.			
12/1	. 14		ion via X20/ EH1, EH2) o					
0	defect).	am comación (connecti	ion via AZU/ EIII, EEZ) (	iocs not energize (WIIII)	y, ius <del>c</del>			
• 0	dolotij.							
9	- Ø							
	Tho							
v 1	180°							
• 0	Charging ti	it DC bus (wiring, IGBT me of DC bus is too lo	defect). ng (Capacitor load to big ax limit of 850 VDC. (KW					
5	Regenerative fau			700				
	3.0		after re-boot is not poss	ible				
	0"	70.	70,	ible.				
00	- 224	quency out of range lir	mit 47 63 HZ					
• •	Current exc	ceeds max limit.						
	2							
	δ.							
143.6,	143.5		Mag)	16.5	t,			
	ground fau	lt)	resistor too small, resist					
• • • Marci	Short circu ground fau	lt)	tonce via binary input "F					
	Short circu ground fau	lt) Error only can be reset	tonce via binary input "F					
	Short circu ground fau	It) Error only can be reset cycled if this error occu	tonce via binary input "F					
	Short circu ground fau      Over temperature	It) Error only can be reset cycled if this error occu	tonce via binary input "F	L". Main power supply h	nas to be			
	Short circu ground fau      Over temperature     Heat sink to	It) Error only can be reset cycled if this error occu emperature or external	t once via binary input "F irs again.	L". Main power supply h	nas to be			
	Short circu ground fau      Over temperature	It) Error only can be reset cycled if this error occu emperature or external	t once via binary input "F irs again.	L". Main power supply h	nas to be			
	Short circu ground fau      Over temperature     Heat sink to	It) Error only can be reset cycled if this error occu emperature or external	t once via binary input "F irs again.	L". Main power supply h	nas to be			
	Short circu ground fau      Over temperature     Heat sink to	It) Error only can be reset cycled if this error occu emperature or external	t once via binary input "F irs again.	L". Main power supply h	nas to be			
	Short circu ground fau      Over temperature     Heat sink to	It) Error only can be reset cycled if this error occu emperature or external	t once via binary input "F irs again.	L". Main power supply h	nas to be			



LED Display	Meaning / Error causes	90	1810)	79 ₀
	Fault ±12 V  Internal power supply volta  External power supply (24	7(0)		H'illigation
Tuggye.bl	Controller	styka.ti	Tayka.d	Tall Wald
0 0	<ul> <li>Error checksum SEEP</li> <li>Error ACC-BUS</li> <li>Watchdog-monitoring</li> <li>Stack-monitoring</li> </ul>			
12.0	Time level monitoring			



### 7 Messages of AZ 05 through LED block

In the central module AZ 05 status and diagnostic messages are indicated by a LED block at the top right margin. This facilitates rough diagnosis of the system without control panel.



LED field Operating status: AZ 05 and AW ready

#### Status indication

LED display	Meaning	<b>X</b>	70 ²⁰	70 ₀₀	Status
unules.	System run-up	and a	7.0	and the second	www.7
000	officity a ch				,offi
WAN LEE	System configu	iration free of error	¹ / ₁	NATH III.	2
	omayko bi				-Sti
	AZ 05 ready, D	C bus charged	¹ / ₁ / ₁ / ₂ / ₂	White Str.	3
	Latha d				
	AZ 05 ready ar	nd all activated AW n	nodules ready	North Haller	4
	Vig _W o's				

### 8 Messages AZ 20 ... AZ 60 through LED block

In the central modules AZ for the extended line voltage range, status and diagnostic messages concerning the regenerative braking are displayed by LED block H1. Regenerative braking is no longer controlled by the central computer AZ-R0x but by a separate  $\mu$ C.

In the case of operational fault of the regenerating braking the system ready message SBM is withdrawn, and the error 1060 "Regenerative braking fault" is displayed on the control panel. Error deletion is possible only by switching off the line voltage or the external supply voltage of the power supply unit.



System behavior in the case of error:

- Regenerative braking is inactivated
- The system ready message SBM is withdrawn (SBM = 0)
- Coasting of the drives (pulse barrier at AW)
- The main contactor in the AN opens, QUE is reset.
- The DC bus circuit is discharged through the internal or external braking resistor





H1: LED field

Operating status: Regenerative braking active

#### **Status indication**

LED display	Meaning	"4' ₁₀ .	"4" _{CO.}	74/0	Status
	Regenerati	ve braking has run up	correctly but is not yet activ	vated	1,111
0 0	all all the lat				, 3 ^t 2
(G) Cliffic	Regenerati	ve braking is active an	nd without fault	White appare	2
0 0	Z. HAZ. CI				.g.
	Palifold.				

### Diagnosis overview

LED display	Meaning/causes of error	2010	- Alle	Status
00	<ul> <li>Regenerative braking is active overcurrent of the IGBT. The LE changes to 1 or 2 if no further e Possible causes:.</li> </ul>	ED remains on for approx		3
00	- Faults on line voltage			
:3/E	19 ¹			
	10tic			101
<b>O</b>	<ul> <li>Regenerative braking is active IGBT continue to be switched. changes to 1 or 2 if no further e Possible cause:</li> </ul>	The LED remains on for a		4
<b>O</b>	- Strongly disturbed power sup	ply, overcurrent errors the	en occur generally.	
May	May Mais			
	This Thinks			
O • Name	Regenerative braking is in error Possible causes:     Faults on line voltage     Overcurrent in regenerative b		WHY I POLL	5
00	Note: This LED pattern lights up if with reger error is present	erative braking switched	off a corresponding	
00	<ul> <li>Regenerative braking is in error Possible causes</li> <li>Line voltage not applied (for A synchronization not possible)</li> </ul>	AZ with ext. power supply		6
	"160 y			
Oz.,	Regenerative braking is in error Possible causes:		un-up.	7
	- No power supply at the regen			1900
00	- Defect in the regenerative bra	king logic		nan.
	- B			
	We.			

### 9 Messages through control panel, error deletion

I. In the case of error:	Error DIAGNOSTICS NEXT	
F3 F1	xxxx Aqq zz abcd	
(DIAGNOSTICS)	xxxx: Diagnostic No. Aqq: Error source (AZ0,4Wn) zz: Error counter abcd: Diagnostic text	
<b>1</b> ¹	. Display of further diagnostic messages which (if diagnostic stack.	present) are stored in t
. Switch off inverter on (UE) a	and controller enable (RF).	
6.	DELETE ERROR SYSTEM STARTUP	
Shift F3	Error delection active	

Alternatively an error deletion can take place with inactive "Inverter on and controller enable" signals through the binary input FL at AZ X30, FL at KU X33 or through active option cards such as AZ-PSx. Error deletion always results in a partial system initialization. This lasts approx. 2 s per activated drive. Only after the end of this time and the "Group ready" message can the system be restarted.

For some seconds then:

SYSTEM

STARTUP

DELETE ERROR

DIAGNOSTICS

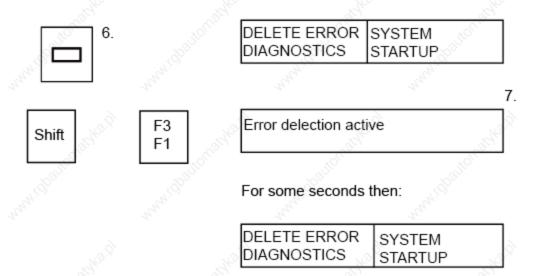
#### Error deletion with active UE/RF

1. In the case	of error:	Error DIAGNOSTICS NE	XT
F3 F1		xxxx abcd	Aqq zz
Z-[	DIAGNOSTICS)	May,	Tru,
		xxxx: Diagnostic No. Aqq: Error source (AZ zz: Error counter abcd: Diagnostic text	0,4Wn)

diagnostic stack.

Display of further diagnostic messages which (if present) are store

- 4. Switch off inverter on (UE) and controller enable (RF).
- 5. Remove cause of fault





### Internal diagnostic information

(F2 key on "System diagnostics" message, or "See description")

1.

(DIAGNOSTICS)

2.

3.

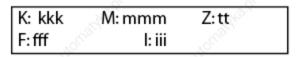
Display of the internal data structure of further messages if present. Further information can be found in the "Clocking out the diagnostic message" section.

Please note all values and inform the AMK service (Tel.: +49 (0) 7021/50 05-191).



xxxx Aqq zz abcd

F4 F2







### 10 Non-volatile saved events

Different values are saved in non non-volatile memory. (Maximal 40 000 write cycle per memory cell).

These can be analyzed with the key pad( Main menu\System\fault statistic or operation hour counter) or with PC-Program (AIPAR, APS).

Operation hour counter is increased every hour. (Active power supply).

Following fault information can be obtained:

Content	ID-No. ¹⁾	AZ	KE	AW	KW	KU	RM
Fault counter mains	34062/2	Х	x d	-	- 10	х	x .6
Fault counter brake transistor	34062/3	х	x	-	"iq <u>b</u> u	х	Widpas
Fault counter Logic voltage	34062/4	Х	X	Х	X	х	X
Fault counter overload I ² t	34062/5	-	х	Х	х	х	Х
Fault counter encoder error	34062/6	9	-	х	х	х	х
Fault counter short circuit/ ground fault	34062/7	x	х	x	х	x	х
Fault counter device over-temperature	34062/8	х	×	х	x	х	X
Fault counter motor/brake resistor over-temperature	34062/9	2)	X Maria	2)	×	-	X X

¹⁾ ID does not exist in AZ/AW

²⁾ Included in fault counter device over-temperature

### 11 Clocking the diagnostic message (only AZ)

The diagnosis and the data output is possible in the AZ through binary outputs DA1 ... DA4.

#### Overview of assigned inputs/outputs

Inputs:

SC Output status code

TS Clock for reading the status code through DA1 ... DA4

Outputs:

QSC Acknowledgement SC QTS Acknowledgement TS

DA1 data output 1
DA2 data output 2
DA3 data output 3
DA4 data output 4

#### Functional description of the signals:

#### SC = 0:

The binary displays (messages) agreed with the system parameters are output cyclically at DA1 ... DA4.

#### SC = $0 \rightarrow 1$ :

The diagnostic module prepares the diagnostic information for output at the outputs DA1 ... DA4.

#### QSC:

Acknowledges the SC signal if the diagnostic information is present for the output at DA1 ... DA4.

#### TS = 1:

The drive status is read nibble-sequentially (4 nibbles) with clock pulses TS. If no further error messages are present, "0" is output in each case at DA1 ... DA4.

TS is without effect as long as SC = 0. With SC = 1 and TS = 1, the individual nibbles of the status information are output at the outputs DA1 ... DA4. The 1st nipple is output at

DA1 ... DA4 with the first TS =  $0 \rightarrow 1$  transition, the 2nd nibble with the second TS =  $0 \rightarrow 1$  transition etc. The values at DA1 ... DA4 are valid and may be processed further by the higher-level control system if QTS = 1.

#### QTS:

QTS acknowledges the signal TS and indicates that the binary outputs DA1 ... DA4 are valid.

#### DA1 ... DA4:

Binary outputs for status messages (SC = 0) and diagnostic messages (SC = 1).

#### Structure of the diagnostic information:

Nibble 1 Nibble 2 Nibble 3 Nibble 4

Error source Diagnostic no. low Diagnostic no. high Error module

### 12 AMK service info

The following explanations serve for additional information of the AMK service and require deeper system knowledge.

#### Example of clocking out error codes (only AZ)

A	MSB		- /	/			- 4				A				LSE	3	
Kg.	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Bit
Nibble1		,	080			1	80			Val.	)		0	0	1	0	Ι,
Nibble 2		270				300			1	39	1	1	777.				~7 <u>1</u> (0)
Nibble 3		300			0 .8	0	1	0	.900				900			- 20	350
Nibble 4	1,22	0	0	1	Way.				Mar.				7			77.24	
Hex:	9				2	2		F	E Z				2				
Decimal:	2351	= Cod	de-No.		•									Drive AW2			

Message: "Motor temp. warning"

	MSB													LSB			
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1 (	Bit
Nibble1	MAy.				The.			- 3	14.			777	0	0	1	0	1
Nibble 2	20				20			27	1	0	1	122				2,	1
Nibble 3				S	0	0	1	0									1
Nibble 4	1	0	0,0	1			10%				MD'S			N.	38		1
Hex:	9		Variation.		2		20,		В	100	3		2	197			1
Decimal:	2347	7 = Code-No.				10			10/				Drive AW2			38	

Message: "Motor temp. error"

	MSB				10			1	14. 14.						LSE	LSB		
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Bit	
Nibble1			730	4			May.				0.7		0	0 👊	0	0	1	
Nibble 2			Sec.			- 4	99,		0	0,00	0	0		200			1	
Nibble 3		10			0	0	0	0		30/			- 85	3			10	
Nibble 4	0	0	0	0		0			700				700				1200	
Hex:	0.4	100		•	0				0		•	Tr.	0			24%	7	

#### Message:

No further error message in the system. Enquiry of the status code can be interrupted by removal of "SC".

The diagnostic message is composed of two parts. Part 1 states which AMKASYN internal error source has generated the diagnostic message, part 2 represents the diagnostic module to which an inverter reference can be produced.

### List of the error sources:

AZ	0	Fault message AZ
AW1	1	Fault message AW 1
AW2	2	Fault message AW 2
AW3	3	Fault message AW 3
AW4	4	Fault message AW 4
AW5	5	Fault message AW 5
AW6	6	Fault message AW 6
AW7	7	Fault message AW 7
AW8	8	Fault message AW 8
ODT	•	0-6

OPT 9 Option card fault message (e.g. AZ-PSx)



#### List of the software diagnostic modules for forming the global error number:

DIAGNOSTICS	, O O	Diagnostic module fault message
CONTROL PANEL	1	Control panel software fault message
MONITOR	2	Monitor module fault message
DATA BASE	3	Data base module fault message
HARDWARE-AZ	4	Central module hardware fault message
OPERATION MODE MANAGEMENT	5	Operation mode management module fault message
SERIAL EEPROM	6	Serial EEPROM fault message
COMMANDING	7	Commanding module fault message
LOG.SUBSCRIBER	8	Logical subscriber fault message
HARDWARE-AW	9	Inverter hardware fault message
OPTION CARDS	10	Option cards fault message
SPS	11	AZ-PSx card fault message
SERCOS interface ®	12	AZ-K02 card fault message
NC	13	AZ-MCx card fault message

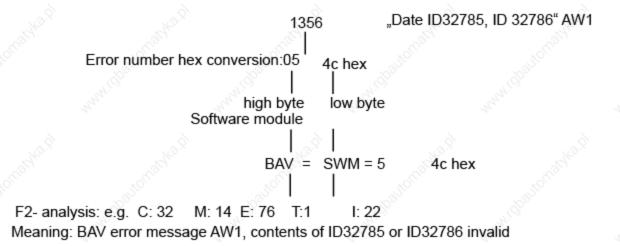
The development-internal error data structure can be read by pressing the F2 key (F2 analysis) on the control panel, this is absolutely necessary in connection with the "System diagnostics" plain language message:

C: cc	M: mm	T: tt	E: ee	l: ii
cc	Variable ub_erro	orclass, error class		
mm	Variable ub_mo	dul, error module		
tt ko	Time at which th	e error occurred, order o	f the events	
ee	Variable ub_erro	ornr, error number		
411	Variable uw_info	o, additional information	(error-reporting function)	

The error code and the error module of the development-internal error data structure is not identical with the external global diagnostic message. The diagnostic messages can be used in connection with the current version of the file DIAG_DEF.INC of the directory C:\AZMODUL\INCLUDE.

### Example of calculation of control panel error number for module assignment:

Control panel display:1356"Datum ID 32785, ID 32786"AW1



picture name: ZCH_Diagnose_Berechn_bsp

Overview of diagnostic modules for internal module code with inverter No. reference

Subscriber	Int. module code (F2 analysis)	Diagnostic module SWM for calculation						
DIAGNOSTICS	0	SWM0	Diagnostics					
MNU	1 4	SWM1	Control panel					
MON	2	SWM2	Monitor					
DTH	3	SWM3	Database					
AZ	4	SWM4	AZ fault messages					
BAV	13	SWM5	BAV not drive-specific					
BAV1	14	SWM5	BAV AW1 drive-specific					
BAV2	15	70,	BAV AW2					
BAV3	16	4100	BAV AW3					
BAV4	17		BAV AW4					
BAV5	18		BAV AW5					
BAV6	19	24	BAV AW6					
BAV7	20	- Kap	BAV AW7					
BAV8	21	720,	BAV AW8					
SEEPAZ	22	SWM6	SEEP AZ					
SEEPAW1	23		SEEP AW1					
SEEPAW2	24	17.	SEEP AW2					
SEEPAW3	25		SEEP AW3					
SEEPAW4	26	N.	SEEP AW4					
SEEPAW5	27	169	SEEP AW5					
SEEPAW6	28		SEEP AW6					
SEEPAW7	29	7027	SEEP AW7					
SEEPAW8	30	200	SEEP AW8					
KMD1	31	SWM7						
KMD2	32	SVVIVI7	KMD AW1 Commanding interface KMD AW2					
KMD3	33							
	et in the second of the second	1/25	KMD AWA					
KMD4	34	*0,0,	KMD AW4					
KMD5	35	1000	KMD AW5					
KMD6	36	- 12.O'	KMD AW6					
KMD7	37	247	KMD AW7					
KMD8	38	014/840	KMD AW8					
LT_ANTR	39	SWM8	Logical SBUS subscriber					
AW1	5	SWM9	AW fault messages AW1					
AW2	6		AW2					
AW3	7	210.	AW3					
AW4	8	90,	AW4					
AW5	9	ally.	AW5					
AW6	10	Z _r	AW6					
AW7	11		AW7					
AW8	12	N.	AW8					
FSS_AZSSINT	40	SWM10	Option cards					
SPS_MODULE	101	SWM11	SPS					
SERCOS_MODULE	121	SWM12	SERCOS					
NC MODULE	131	SWM13	NC NC					



### 13 Your opinion is important!

With our documentation we want to offer you the highest quality support in handling the AMK products.

That is why we are now working on optimising our documentation.

Your comments or suggestions are always of interest to us.

We would be grateful if you take a bit of time and answer our questions. Please return a copy of this page to us.



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Thank you for your assistance. Your AMK documentation team

- 1. How would you rate the layout of our AMK documentation?
  - (1) very good (2) good (3) satisfactory (4) less than satisfactory (5) poor
- 2. Is the content structured well?
  - (1) very good (2) good (3) moderate (4) hardly (5) not at all
- 3. How easy is it to understand the documentation?
  - (1) very easy (2) easy (3) moderately easy (4) difficult (5) extremely difficult
- 4. Did you miss any topics in the documentation?
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  - (1) very good (2) good (3) satisfactory (4) less than satisfactory (5) poor

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