3.3 - OBJECT LIST

Parameters in bold are saved into the parameter file.

Index	Sub	Name	Description

Communication

0x1005		Sync_ID	Sync CobID
0x1006		**Period**	Communication Cycle Period
0x100C		Guard_T	NodeGuarding Guard Time
0x100D		LifeTime	NodeGuarding Life time factor
0x1014		Emcy_ID	Emcy CobID
0x1016		HeartBt	Consumer Heartbeat Time
0x1017		HBprod	Producer Heartbeat Time
0x1018		Identity	CANopen Identity object
0x1200		SrvSDO	Server SDO parameter
0x1201		SrvSDO2	Server SDO 2 parameter
0x1280		CliSDO1	Client SDO 1 parameter
0x1281		CliSDO2	Client SDO 2 parameter
0x1400		RPDO1par	RPDO1 parameter
0x1401		RPDO2par	RPDO2 parameter
0x1402		RPDO3par	RPDO3 parameter
0x1403		RPDO4par	RPDO4 parameter
0x1600		RPDO1map	RPDO1 mapping
0x1601		RPDO2map	RPDO2 mapping
0x1602		RPDO3map	RPDO3 mapping
0x1603		RPDO4map	RPDO4 mapping
0x1800		TPDO1par	TPDO1 parameter
0x1801		TPDO2par	TPDO2 parameter
0x1802		TPDO3par	TPDO3 parameter
0x1803		TPDO4par	TPDO4 parameter
0x1A00		TPDO1map	TPDO1 mapping
0x1A01		TPDO2map	TPDO2 mapping
0x1A02		TPDO3map	TPDO3 mapping
0x1A03		TPDO4map	TPDO4 mapping

0x2000		NMTmastr	NMT Start/Stop
0x2001		NMTstate	NMT state
0x2004		**AxisName**	Axis Name
0x2006		SyncCtrl	Can Synchronisation parameter
	1	**SCphase**	
	2	**SCthresh**	
	3	**SCadjust**	
	4	SCerror	
	5	SCfilter	
0x200A		DevAddr	DeviceID
	1	**DeviceId**	
0x2010		**NMTboot**	NMT Boot-up
0x205D		**NMTcfg**	NMT config
0x205E		**NMTerror**	NMT error behaviour
0x205F		**EMCYmsg**	

0x2300		SerialP	RS-232 parameters
	1	**SP_baud**	
	2	SP_data	
	3	SP_par	
	4	SP_stop	
0x2301	**0**	**SP_pro**	RS-232 protocol select
0x2310		**Can_Baud**	Can Baudrate

General

0x1000		DevType	Device Type
0x1008		DevName	Manufacturer Device Name
0x1009		Hardware	Manufacturer Hardware Version
0x100A		Software	Manufacturer Software Version

0x1010		StorePar	Store parameters
0x1011		LoadPar	Restore parameters

0x6510	0	DrvData	Drive Data
	1	DrvMax	
	2	DrvRated	
	3	DrvVolt	
	4	**UserVolt**	User Voltage (230 or 400)
	5	**LowVolt**	Low Voltage Threshold
0x6502	0	DrvModes	Supported drive modes
0x6504	0	ManName	Manufacturer Name

Device Control

0x6040	0	ControlW	Control Word
0x6041	0	StatusW	Status Word
0x605A	**0**	**QStopOC**	Quick Stop option code
0x605B	**0**	**ShutDnOC**	Shutdown option code
0x605C	**0**	**DisOpOC**	Disable Operation option code
0x305A	**0**	**InhOpOC**	Inhibit option code
0x6060	**0**	**ModeOp**	Mode of Operation
0x6061	0	ModeOpDp	Mode of Operation Display
0x3041		DevState	Device state monitoring
0x3300		StopDec	Stop 1 Ramp
	1	**StopDec1**	
	2	**StopDec2**	
0x3301		StopI	Stop 3 current limit
	1	**StopI1**	
	2	**StopI2**	
0x3302		StopTime	Stop Time Limit
	1	**StopTm1**	
	2	**StopTm2**	
0x6085	**0**	**QS_dec**	Quick Stop Ramp
0x3304	**0**	**DrvTime**	Amplifier Reaction Time
0x3305	**0**	**BrkTime**	Motor Brake Reaction Time

Factor Group

0x608F		**PosResol**	Encoder Position Resolution
0x6093		**Pos1Fact**	Position Factor
0x6089	**0**	**Pos1Nota**	
0x608A	**0**	**Pos1Dim**	
0x3089	**0**	**Pos1Disp**	Position Display Factor
0x308A	**0**	**Pos1Unit**	Position Unit Name

Motor

0x6410			Motor Data
	1	**MotorMan**	
	2	**MotorNm**	
	3	**MotorCod**	
	4	**McatDate**	
	5	**MmodDate**	
	6	**Mtype**	
	7	**Mmaxspd**	
	8	**Mrtdspd**	
	9	**MstallI**	
	10	**MpeakI**	
	11	**M_Kt**	
	12	**M_J**	
	13	**Minduct**	
	14	**Mpolepr**	
	15	**MPhase**	
	16	**Moffset**	
	17	MTtype	
	18	MTthres1	
	19	MTthres2	
	20	**Mpolept**	
0x6072		MaxTq	Max Torque
0x6073		**MaxI**	Motor Max current
0x6075		**MotRtdI**	Motor Rated Current
0x6076		MotRtdTq	Motor Rated Torque

0x3410		MotorPar	Motor Parameters
	1	**PolePair**	Current Number of motor pole pairs
	2	**MotPhase**	Current Motor Phase
	3	**RotorOfs**	Current Motor Offset
0x340F	**0**	**Induct**	Current Motor Inductance
0x3323	0	MT_res	Motor temperature probe monitoring
0x3324		MT_cfg	Motor temperature probe config
	1	**MT_probe**	Motor temperature type (NTC/PTC)
	2	**MT_warn**	Motor temperature warning threshold
	3	**MT_error**	Motor temperature error threshold

Sensors

0x306A	**0**	**Pos_FB**	Position Feedback Sensor Select
0x3070	**0**	**Motor_FB**	Motor Feedback Sensor Select

Resolver Input

0x3100		Resolver	Resolver monitoring
	1	Res_Sin	
	2	Res_Cos	
	3	Res_Amp2	
	4	Res_Mod	
	5	Res_Amp	
0x3101	0	Res_Setp	Resolver Setup
	1	**Res_Type**	Enable/Setup Resolver Input
	2	**Res_Cfg**	
	3	**Res_Zsh**	
	4	**Res_Zsz**	
	5	**Res_NP**	
	6	**ResRatio**	
0x3102	0	Res_Err	Resolver Error control
	1	Res_Thrs	
	2	Res_Lim	
	3	**Res_AmpF**	

	4	**Res_Rdc**	
0x3104		Res_Cal	Resolver Calibration Procedure
0x3105		Res_CalV	Resolver Calibration parameters
0x3107	0	Res_TopZ	Resolver Virtual Top Z
0x3108	0	Res_ofs	Resolver Offset (user position unit)
0x3109	0	Res_pos	Resolver Position (user position unit)
0x310A	0	Res_vel	Resolver Velocity (user velocity unit)
0x310C	0	Res_raw	Resolver raw position

Encoder Input

0x3120		Encoder1	Encoder
	1	Enc1Sin	
	2	Enc1Cos	
	3	Enc1Amp2	
	4	Enc1Mod	
	5	Enc1Amp	
0x3121		Enc1Setp	Encoder Setup
	1	**Enc1Type**	
	2	**Enc1Cfg**	
	3	**Enc1Zsh**	
	4	**Enc1Zsz**	
	5	**Enc1res**	
	6	**Enc1turn**	
	7	**Enc1Zlen**	
0x3122		Enc1Err	Encoder Error Control
	1	**Enc1Cnt**	
	2	**Enc1Thrs**	
	3	**Enc1Lim**	
0x3124		Enc1CalP	Encoder Calibration
0x3127	0	Enc1TopZ	Encoder Virtual Top Z
0x3128	**0**	**Enc1ofs**	Encoder Offset (user position unit)
0x3129	0	Enc1pos	Encoder Position (user position unit)
0x312A	0	Enc1vel	Encoder Velocity (user velocity unit)
0x312B	0	Enc1Ref	
	1	Enc1RefP	
0x312C	0	Enc1raw	Encoder1 Raw Position
0x312D	0	Enc1Abs	
	1	Enc1Max0	
	2	Enc1Max1	
	3	Enc1Abs0	
	4	Enc1Abs1	
	5	**Enc1Ref0**	
	6	**Enc1Ref1**	
0x313E	**0**	**Enc1HesC**	

Servo Loops

Current Loop

0x3400		Imon	Motor Current Monitoring
0x3402		Iofs	Motor Current offset measurement
0x3408		Vdcmon	Voltage monitoring
0x30DA		**IlimSrc**	Dynamic Current Limit Input Source
0x30D1		Ilimit	Current Limitation
0x30D2		**IlimCfg**	Dynamic Current Limit Configuration
0x30D4		Iq	Iq Current monitor
0x30D5		Id	Id Current monitor

0x3411	0	CalcIlp	Current Loop Calculation
0x3412	0	CalcIlim	Current Limitation Calculation
0x60F6		Tq_CTRL	Current Loop Parameters
	1	**IregType**	
	2	**KPq_I**	
	3	**KIq_I**	
	4	**KPd_I**	
	5	**KId_I**	
0x30F5		TqLpmon	Current Loop Monitoring
	1	IdRef	
	2	IqRef	
	3	Idmon	
	4	Iqmon	
	5	VdRef	
	6	VqRef	
	7	PosElec	
0x6079	0	DCvolt	DC Voltage
0x30F4		IdrvLim	Current limit parameters

0x3413		APstart	Auto-phasing

0x3414		MCstart	Motor phasing

Speed Loop

0x60F9		Vel_CTRL	Speed Loop Parameters
	1	**VregType**	
	2	**KPv**	
	3	**KIv**	
	4	**KIvf**	
	5	**KCv**	
	6	**KDv**	
	7	**KDvf**	
	8	**KJv**	
0x30F9		VFilter	Speed Error Low-pass Filter
	1	**SpErrLF1**	
	2	**SpErrLF2**	
	3	**SpErrLF3**	
0x30FA	**0**	**TVelMes**	Speed measurement filter
0x30F8		VelLpmon	Speed Loop Monitoring
	1	VelRef	Demand speed (0x7FFF -> Maximum motor speed)
	2	VelFb	Motor speed (0x7FFF -> Maximum motor speed)
	3	VelErr	
	4	Idc	
	5	IcomF	

Position Control

0x307B	**0**	**PosRgEna**	Modulo configuration
0x607B		PosRange	Position Limit
	1	**PosRgMin**	
	2	**PosRgMax**	
0x60FB		Pos_CTRL	Position Control Parameters Set
	1	**PregType**	
	2	**KPp**	
	3	**KFp**	
	4	**KAv**	
	5	**KBv**	
0x30FC		PosLpmon	Pos Loop monitoring
	1	PosRef	
	2	PosFB	
	3	Vref	
0x6062		PosDem	Pos Demand Value
0x60B0		PosOfs	Pos Offset
0x6063		IntPos	Position Actual Value
0x6064		ActPos	Actual position
0x6065		**PosErWin**	Following Error Window
0x3065		**FWctrl**	Following Error Error control
0x60F4		PosErr	Following Error Actual Value

External Feedforward

0x31FF		FForward	External Feedforward

Auto-tuning

0x3425	0	Autotune	Auto-tuning parameters
	1	**ATbwidth**	
	2	**ATtype**	
	3	**ATselect**	
	4	**ATappl**	
0x3426	0	ATstart	Auto-tuning
0x3427	**0**	**KsDig**	

Error Control

0x3022	0	Error	Error monitoring
	1	Error1	
	2	Error2	
	3	Error3	
0x3023	0	ErrCode	
	1	ErrState	
	2	LastErr	
	3	PrevErr	
0x3024	0	Warning	Warning
0x3025	0	Err_Ctrl	Error control (mask)
	1	**ErrMask1**	
	2	**ErrMask2**	
	3	**Stop1Mk1**	
	4	**Stop1Mk2**	
	5	**Stop3Mk1**	
	6	**Stop3Mk2**	

0x3404	0	Iprotect	I²t monitoring/parameter
	1	**I2tMode**	
	2	I2t	
	3	Imotor	

Profile Position Mode

0x607A	0	TargePos	Target Position
0x6080	**0**	**MaxSpeed**	Maximum motor speed
0x6081	**0**	**ProfiVel**	Profile Velocity
0x6082	0	PPendVel	End Velocity
0x6083	**0**	**ProfiAcc**	Profile Acceleration
0x6084	**0**	**ProfiDec**	Profile Deceleration
0x6086	**0**	**ProfType**	Motion Profile Type
0x6067	**0**	**PosWindo**	Position Window
0x6068	**0**	**PosWinTi**	Position Window Time
0x607D	0	PosLimit	Software Position Limit
	1	**MinPosLm**	Minimum position Limit
	2	**MaxPosLm**	Maximum position Limit
0x607F		**MaxPPvel**	Max Profile Velocity
0x3360	**0**	**AxeType**	Axis Type
0x3081	**0**	**SpModSrc**	Position Profile Speed Modulation Input Source
0x3082	**0**	**SpModCfg**	Position Profile Speed Modulation Configuration
0x3083	0	SpMod	Position Profile Speed Modulation

Homing Mode

0x607C		**HomeOfs**	Home Offset
0x6098		**HomeMeth**	Homing Method
0x6099		HomeSpds	Homing Speeds
	1	**HomeSpd1**	Speed during search of switch
	2	**HomeSpd2**	Speed during search of zero
0x609A		**HomeAcc**	Homing Acceleration
0x309C		**HCurLim**	Home Current Limit
0x309D		**HEndHome**	End On Home Position

Interpolated Position Mode

0x60C0		**IPmode**	Interpolated SubMode Select
0x60C1		IPrecord	Interpolated Data Record
0x30C1		IPoutput	Interpolation output
0x60C4		IP_conf	Interpolation data configuration
0x3350		IPformat	Absolute 16-bit Position Reference

Profile Velocity Mode

0x60B1	0	VelOfs	Offset Velocity
0x30B1	0	VelOfsSc	Offset Velocity input source
0x60FF	0	TargetV	Target Velocity
0x606B	0	VelDem	Velocity Demand Value
0x606C	0	VelAct	Velocity Actual Value
0x306C	**0**	**VelFilt**	Velocity measurement filter
0x3069	0	Velocity	Velocity Actual Value (rpm)
0x606D	**0**	**VelWin**	Velocity Window
0x606E	**0**	**VelWinTm**	Velocity Window Time
0x606F	**0**	**VelThr**	Velocity Threshold
0x6070	**0**	**VelThrTm**	Velocity Threshold Time
0x30FF	**0**	**VelInObj**	Target Velocity Input Object

Profile Torque Mode

0x6071	0	TqTarget	Target Torque
0x3071	0	TqSrc	Target Torque input source
0x6087	**0**	**TqSlope**	Torque Slope
0x6088	0	TqProfil	Torque profile type
0x60B2	0	TqOffset	Offset Torque
0x30B2	0	TqOfsSrc	Offset Torque input source
0x30B3	0	TqOfs2	Torque Offset 2
0x6074	0	TqDemand	Torque Demand Value
0x6077	0	TqValue	Torque Actual Value
0x6078	0	CurrAct	Current Actual Value
0x6079	0	DCvolt	DC Voltage
0x3078	0	CurrFilt	Current measurement filter

Sequence Mode

Sequence Control

0x3601		SQin	Sequence Inputs
	1	SQnb	Sequence Number Input
	2	SQrun	Executed Sequence Number
	3	SQcond	Conditional Inputs
	4	SQinp	Sequence Inputs
0x3602		SQoutp	Sequence Outputs
	1	SQout	Programmable Logic Outputs
	2	SQoutpol	Programmable Logic Outputs Polarity
	3	SQsta	Dedicated Logic Outputs
	4	SQstapol	Dedicated Logic Outputs Polarity
0x3603	**0**	**SQSpulse**	Minimum Sequence Pulse
0x3604		SQoutcfg	Output Pulse Configuration
	1	**SQOpulse**	Output Pulse
	2	**SQOtime**	Output Pulse Duration
0x3605	0	SQphase	Sequence phase
0x360B	0	SQpcapt	Sequence position capture
0x360C	0	SQconfig	Sequence Configuration
0x360F	0	SQavail	Supported Sequence Type

Sequence Parameters

0x3610	0	SQParNb	Sequence Parameters Number
0x3611	0	SQPar	Sequence Parameters
	1	SQPtype	Sequence Type
	2	SQPnext	Next sequence
	3	SQPcnt	Sequence Counter
	4	SQPlink	Sequence Link
	5	SQPtrig	Output Trigger
	6	SQPout0	Output Bits = 0
	7	SQPout1	Output Bits = 1
	8	SQPoutT	Output Bits Toggle
	9	SQPst0	Start Condition Bits = 0
	10	SQPst1	Start Condition Bits = 1
	11	SQPstop0	End Condition Bits = 0
	12	SQPstop1	End Condition Bits = 1
	13	SQPpos	Position
	14	SQPpos2	Position 2 (reserved for future use)
	15	SQPvel	Speed
	16	SQPext	Speed 2 / Position 3 (reserved for future use)
	17	SQPaccel	Acceleration
	18	SQPdecel	Deceleration
	19	SQPtacc	Acceleration Time
	20	SQPtdec	Deceleration Time

	21	SQPcfg	Configuration
	22	SQPcfg2	Configuration 2
	23	SQPtempo	Temporization
	24	SQPrtime	Running Time
	25	SQPana	Analog In
	26	SQPana2	Analog In 2 (reserved for future use)
0x3612	0	SQmaxNb	Number of maximum sequences

Stepper Emulation Mode

0x3681	0	SE_mode	
	1	SEctrl	
	2	SEstatus	
	3	**SEconfig**	
	4	**SEtempo**	

Analog Speed Mode

0x604F	**0**	**Vramp**	
0x304F	**0**	**Vramp2**	

Application FE

Digital Inputs/Outputs

0x60FD	0	Dinput	Digital Inputs
0x3050		DInpCfg	Digital Inputs Configuration
	n	**Inp?Cfg**	
0x3051	**0**	**InpPol**	Digital Inputs Polarity
0x60FE		Doutput	Digital Outputs
	1	Dout	
	2	**DoutBMsk**	
0x3054		DOutpCfg	Digital Outputs Configuration
	n	**Outp?Cfg**	
0x3055	0	OutpPol	Digital Outputs Polarity
0x3058		Dio16	Digital User Inputs/Outputs
		Dinp16	Digital Inputs 16b
		Doutp16	Digital Outputs 16b
		Dinp16hw	Physical Digital Inputs 16b
0x3043		enable	Enable Configuration
		ena_cfg	

Analog Inputs

0x30F1		AnalogI1	Analog Input 1
	1	AnaIn1	
	2	AI1s32	
	3	**AI1_ofs**	
	4	**AI1_gain**	
	5	**AI1_filt**	
	6	**AI1_lv0**	
	7	**AI1_lv1**	
	8	AI1_proc	
	9	**AI1_db**	
0x30F2		AnalogI2	Analog Input 2
	1	AnaIn2	
	2	AI2s32	
	3	**AI2_ofs**	
	4	**AI2_gain**	
	5	**AI2_filt**	
	6	**AI2_lv0**	
	7	**AI2_lv1**	
	8	AI2_proc	
	9	**AI2_db**	

Analog Output

0x30A1	0	AnalogO1	Analog Output 1
	1	AO1s16	
	2	**AO1src**	
	3	**AO1ofs**	
	4	**AO1gain**	

Encoder Emulation Output

0x3160	0	eOut	Encoder Emulation Output
	1	**eOutSrc1**	
	2	**eOutSrc2**	
	3	**eOut_res**	
	4	**eOut_db**	
	5	**eOut_zsh**	
	6	**eOut_ctl**	
	7	eOut_sta	

Digital Cam

0x30E0		DCamPos	Digital Cam positions
	n	**DCam?P?**	
0x30E1	0	DCamCFg	
	1	**DCamStat**	
	2	**DCamType**	
	3	**DCamPol**	
	4	**DCamHyst**	
	5	**DCamEna**	

Oscilloscope

0x5800	0	Osc_Func	Oscillo function support
0x5804		**Osc_Buf**	Oscillo Buffer configuration
0x5805	0	OscBufDl	Oscillo Buffer delay
0x5810		OscChCfg	Oscillo Channel config
0x5811		**OscChan**	Oscillo Channel definitions
0x5812		OscUnit	Oscillo Channel Unit
0x5820		**OscTgSrc**	Oscillo Trigger configuration
0x5822		**OscTrig**	Oscillo Trigger 1
0x5828	0	OscTgCtl	Oscillo Trigger Control
0x5829	0	OscTgSta	Oscillo Trigger Status
0x5840		**OscTxCfg**	Oscillo Buffer transfer configuration
0x5841	0	OscTx	Oscillo Buffer transfer

Firmware Update

0x5F30		UpdtDrv	Update Firmware
0x5F31		UpdtInit	Update init
0x5F32		UpdtProc	Update process