




Dept	Prepared	Date	Status	Rev
Preliminary				

GROUP	CODE	NAME	RANGE	RESOL	Default	S=Edit only in slot	E=Store to E2P	Is=Immed. save	U=Upgrade possible
START-UP DATA 99	9902	APPLIC MACRO	1=MACRO 1, 2=MACRO 2, 3=MACRO 3, 4=MACRO 4, 5=MACRO 5, 6=MACRO 6, 7=MACRO 7, 8=MACRO 8, 9=MACRO 9, 10=MACRO 10, 11=MACRO 11, 12=MACRO 12, 13=MACRO 13, 14=MACRO 14, 15=MACRO 15, 16=USER1 LOAD, 17=USER1 SAVE, 18=USER2 LOAD, 19=USER2 SAVE	1	0	1	1	1	
	9903	APPLIC RESTORE	0=NO, 1=YES	1	0	1			
	9904	MOTOR CTRL MODE	1=SPEED, 2=TORQUE, 3=SCALAR	1	3	1			
	9905	MOTOR NOM VOLT	100 - 300V 240 - 690V	1V 1V	200V / US: 230V 400V / US: 460V	1	1	1	1
	9906	MOTOR NOM CURR	0.2-1.5 *In	0.1 A	1.0*In	1	1	1	1
	9907	MOTOR NOM FREQ	10.0-500.0 Hz	0.1 Hz	50Hz / US: 60Hz	1	1	1	1
	9908	MOTOR NOM SPEED	0-18000 rpm	1 rpm	1440rpm / US: 1750rpm	1	1	1	1
	9909	MOTOR NOM POWER	0.1-400.0kW / 0.1-550HP	0.1kW / 0.1Hp	*	1	1	1	1
	OPERATING DATA 01	0102	SPEED	-18000 - 18000 rpm	1 rpm				
0103		OUTPUT FREQ	-500 - 500 Hz	0.1Hz					
0104		CURRENT	0.1 - 3200 A	0.1 A					
0105		TORQUE	-180 ... 180 %	0.1 %					
0106		POWER		0.1 kW					
0107		DC BUS VOLTAGE	0 - 999.9 V	0.1 V					
0108		OUTPUT VOLTAGE	0 - 480 V	0.1 V					
0109		DRIVE TEMP	0 - 150 Deg C	0.1					
0111		EXTERNAL REF 1	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	0.1 Hz / 1 rpm	-				
0112		EXTERNAL REF 2	0-100 (700 for torq) %	0.1 %	-				
0113		CTRL LOCATION	0=LOCAL, 1=EXT1, 2=EXT2	1	-				
0114		RUN TIME (R)	0-10000 h	1h	0 h				
0115		KWH COUNTER (R)	0 - 9999 kWh	1 kWh					
0118		DI 1-3 STATUS	000-111 (binary)	1	-				
0119		DI 4-6 STATUS	000-111 (binary)	1	-				
0120		AI 1	0-100 %	0.1%	-				
0121		AI 2	0-100 %	0.1%	-				
0122		RO 1-3 STATUS	000-111 (binary)	1	-				
0123		RO 4-6 STATUS	000-111 (binary)	1	-				
0124		AO 1	0-20 mA	0.1 mA	-				
0125		AO 2	0-20 mA	0.1 mA	-				
0126		PID 1 OUTPUT	-1000 - 1000 %	0.1%					
0127		PID 2 OUTPUT	-100 - 100 %	0.1%					
0128		PID 1 FBK	Selected from unit list & scaled according to PID parameters.						
0129		PID 2 FBK	Selected from unit list & scaled according to PID parameters.						
0130		PID 1 DEVIATION	Selected from unit list & scaled according to PID parameters.						
0131		PID 2 DEVIATION	Selected from unit list & scaled according to PID parameters.						
0132		COMM RO WORD	0-65535	1	0				
0133		COMM VALUE 1	-32768...+32767	1	0				
0134		COMM VALUE 2	-32768...+32767	1	0				
0137	RUN TIME	0-10000 kh	1 kh	0 h					
0138	MWH COUNTER	0 - 9999 MWh	1 MWh						
0140	DRIVE ON TIME (days)	0-65535	1	0					
0141	DRIVE ON TIME (2 s ticks)	0-43200	1	0					
FAULT HISTORY 04	0401	LAST FAULT	fault codes as decimal numbers, 0-65535, panel displays as text	1	0			E	
	0402	FAULT TIME 1	Date DD.MM.YY / drive on days	1	0			E	
	0403	FAULT TIME 2	Time HH.MM.SS	2s	0			E	
	0404	SPEED AT FLT	signed 16 bit range	1 rpm	0			E	
	0405	FREQ AT FLT	signed 16 bit range	0.1 Hz	0			E	
	0406	VOLTAGE AT FLT	unsigned 16 bit range	0.1 V	0			E	
	0407	CURRENT AT FLT	unsigned 16 bit range	0.1 A	0			E	
	0408	TORQUE AT FLT	signed 16 bit range	0.1 %	0			E	
	0409	STATUS AT FLT	hex code 0000-FFFF	1	0			E	
	0410	DI STATUS AT FLT	000000 - 111111 binary	1	0			E	
	0411	PREVIOUS FAULT 1	(as 0401)	1	0			E	
	0412	PREVIOUS FAULT 2	(as 0401)	1	0			E	
START/STOP/DIR 10	1001	EXT1 COMMANDS	0=NOT SEL, 1=DI1, 2=DI1.2, 3=DI1P.2P, 4=DI1P.2P.3, 5=DI1P.2P.3P, 6=DI6, 7=DI6.5, 8=KEYPAD, 9=DI1F.2R, 10=COMM, 11=BP	1	2	1	E	Is	U
	1002	EXT2 COMMANDS	0=NOT SEL, 1=DI1, 2=DI1.2, 3=DI1P.2P, 4=DI1P.2P.3, 5=DI1P.2P.3P, 6=DI6, 7=DI6.5, 8=KEYPAD, 9=DI1F.2R, 10=COMM, 11=BP	1	0	1	E	Is	U
	1003	DIRECTION	1=FORWARD, 2=REVERSE, 3=REQUEST	1	3	1	1	1	1
	1101	KEYPAD REF SEL	1=REF1(Hz/rpm), 2=REF2(%)	1	1	S	1	1	1
	1102	EXT1/EXT2 SEL	0=EXT 1, 1=DI1, 2=DI2, 3=DI3, 4=DI4, 5=DI5, 6=DI6, 7=EXT2, 8=COMM, 9=BP, -1=DI1(inv), -2=DI2(inv), -3=DI3(inv), -4=DI4(inv), -5=DI5(inv), -6=DI6(inv)	1	0	1	1	1	1

Dept	Prepared	Date	Status	Rev
Preliminary				

GROUP	CODE	NAME	RANGE	RESOL	Default	S=Edit only if stop	E=Store to E2P	is=Immed. save	U=Update possible
REFERENCE SELECT 11	1103	REF1 SELECT	0=KEYPAD, 1=A11, 2=A12, 3=A11/JOYST, 4=A12/JOYST, 5=DI3U,4D(R), 6=DI3U,4D, 7=DI5U,6D, 8=COMM, 9=COMM+A11, 10=COMM*A11, 11=DI3U,4D(RNC), 12=DI3U,4D (NC), 13=DI5U,6D(NC), 14=A11+A12, 15=A11*A12, 16=A11-A12, 17=A11/A12, 18=BP	1	1	1	1	1	1
	1104	REF1 MIN	0-500 Hz / 0-30000 RPM	1 rpm / 0.1 Hz	0 rpm / 0 Hz			1	1
	1105	REF1 MAX	0-500 Hz / 0-30000 RPM	1 rpm / 0.1 Hz	1500 rpm / 50.0 Hz			1	1
	1106	REF2 SELECT	0=KEYPAD, 1=A11, 2=A12, 3=A11/JOYST, 4=A12/JOYST, 5=DI3U,4D(R), 6=DI3U,4D, 7=DI5U,6D, 8=COMM, 9=COMM+A11, 10=COMM*A11, 11=DI3U,4D(RNC), 12=DI3U,4D (NC), 13=DI5U,6D(NC), 14=A11+A12, 15=A11*A12, 16=A11-A12, 17=A11/A12, 18=BP, 19=PID1OUT	1	2	1	1	1	1
	1107	REF2 MIN	0-100 (700 for torq) %	0.1 %	0			1	1
	1108	REF2 MAX	0-100 (700 for torq) %	0.1 %	100			1	1
CONSTANT SPEEDS 12	1201	CONST SPEED SEL	0=NOT SEL, 1=DI1, 2=DI2, 3=DI3, 4=DI4, 5=DI5, 6=DI6, 7=DI1,2, 8=DI2,3, 9=DI3,4, 10=DI4,5, 11=DI5,6, 12=DI1,2,3, 13=DI3,4,5, 14=DI4,5,6, -1=DI1(inv), -2=DI2(inv), -3=DI3(inv), -4=DI4(inv), -5=DI5(inv), -6=DI6(inv), -7=DI1,2(inv), -8=DI2,3(inv), -9=DI3,4(inv), -10=DI4,5(inv), -11=DI5,6(inv), -12=DI1,2,3(inv), -13=DI3,4,5(inv), -14=DI4,5,6(inv)	1	6	1	1	1	1
	1202	CONST SPEED 1	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	300 rpm / 5.0 Hz			1	1
	1203	CONST SPEED 2	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	600 rpm / 10.0 Hz			1	1
	1204	CONST SPEED 3	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	900 rpm / 15.0 Hz			1	1
	1205	CONST SPEED 4	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	1200 rpm / 20.0 Hz			1	1
	1206	CONST SPEED 5	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	1500 rpm / 25.0 Hz			1	1
	1207	CONST SPEED 6	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	2400 rpm / 40.0 Hz			1	1
	1208	CONST SPEED 7	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	3000 rpm / 50.0 Hz			1	1
ANALOGUE INPUTS 13	1301	MINIMUM AI1	0-100 %	0.1 %	0			1	1
	1302	MAXIMUM AI1	0-100 %	0.1 %	100			1	1
	1303	FILTER AI1	0-10 s	0.1 s	0.1 s			1	1
	1304	MINIMUM AI2	0-100 %	0.1 %	0			1	1
	1305	MAXIMUM AI2	0-100 %	0.1 %	100			1	1
	1306	FILTER AI2	0-10 s	0.1 s	0.1 s			1	1
RELAY OUTPUTS 14	1401	RELAY OUTPUT 1	0=NOT SEL, 1=READY, 2=RUN, 3=FAULT(-1), 4=FAULT, 5=ALARM, 6=REVERSED, 7=STARTED, 8=SUPRV1 OVER, 9=SUPRV1 UNDER, 10=SUPRV2 OVER, 11=SUPRV2 UNDER, 12=SUPRV3 OVER, 13=SUPRV1 UNDER, 14=AT SET POINT, 15=FAULT(RST), 16=FLT/ALARM, 17=EXT CTRL, 18=REF 2 SEL, 19=CONST FREQ, 20=REF LOSS, 21=OVERCURRENT, 22=OVERVOLTAGE, 23=DRIVE TEMP, 24=UNDERVOLTAGE, 25=A11 LOSS, 26=A12 LOSS, 27=MOTOR TEMP, 28=STALL, 29=UNDERLOAD, 30=PID SLEEP, 31=PFC, 32=AUTOCHANGE, 33=FLUX READY, 34=USER MACRO 2, 35=COMM, 36=COMM(-1)	1	1			1	1
	1402	RELAY OUTPUT 2	(as 1401)	1	2			1	1
	1403	RELAY OUTPUT 3	(as 1401)	1	3			1	1
	1404	RO 1 ON DELAY	0-3600 s	0.1 s	0 s			1	1
	1405	RO 1 OFF DELAY	0-3600 s	0.1 s	0 s			1	1
	1406	RO 2 ON DELAY	0-3600 s	0.1 s	0 s			1	1
	1407	RO 2 OFF DELAY	0-3600 s	0.1 s	0 s			1	1
	1408	RO 3 ON DELAY	0-3600 s	0.1 s	0 s			1	1
	1409	RO 3 OFF DELAY	0-3600 s	0.1 s	0 s			1	1
	1410	RELAY OUTPUT 4	(as 1401)	1	0			1	1
	1411	RELAY OUTPUT 5	(as 1401)	1	0			1	1
	1412	RELAY OUTPUT 6	(as 1401)	1	0			1	1
	1413	RO 4 ON DELAY	0-3600 s	0.1 s	0 s			1	1
	1414	RO 4 OFF DELAY	0-3600 s	0.1 s	0 s			1	1

		ABB Industry		ACS Parametre Listesi					
AC Components		Dept	Prepared	Date	Status	Rev			
Preliminary									
GROUP	CODE	NAME	RANGE	RESOL	Default	S=Edit only if stop	E=Store to E2P	Is=Immed. save	U=Upgrade possible
	1415	RO 5 ON DELAY	0-3600 s	0.1 s	0 s		1	1	1
	1416	RO 5 OFF DELAY	0-3600 s	0.1 s	0 s		1	1	1
	1417	RO 6 ON DELAY	0-3600 s	0.1 s	0 s		1	1	1
	1418	RO 6 OFF DELAY	0-3600 s	0.1 s	0 s		1	1	1
ANALOGUE OUTPUTS 15	1501	AO1 CONTENT	99=EXCITE PTC, 100=EXCITE PT100, 101-999 Parameter codes	1	103		1	1	1
	1502	AO1 CONTENT MIN	Format&unit from selected parameter. Unsigned: 0...65535 Signed: -32768...32767 Default: parameter minimum	-	0 Hz		1	1	1
	1503	AO1 CONTENT MAX	Format&unit from selected parameter. Unsigned: 0...65535 Signed: -32768...32767 Default: parameter maximum	-	50,0 Hz		1	1	1
	1504	MINIMUM AO1	0-20 mA	0.1 mA	0 mA		1	1	1
	1505	MAXIMUM AO1	0-20 mA	0.1 mA	20 mA		1	1	1
	1506	FILTER AO1	0-10 s	0.1 s	0.1 s		1	1	1
	1507	AO2 CONTENT	As 1501	1	104		1	1	1
	1508	AO2 CONTENT MIN	As 1502	-	0 A		1	1	1
	1509	AO2 CONTENT MAX	As 1503	-	?		1	1	1
	1510	MINIMUM AO2	0-20 mA	0.1 mA	0 mA		1	1	1
	1511	MAXIMUM AO2	0-20 mA	0.1 mA	20 mA		1	1	1
	1512	FILTER AO2	0-10 s	0.1 s	0.1 s		1	1	1
SYSTEM CONTROLS 16	1601	RUN ENABLE	0=NOT SEL, 1=DI1, 2=DI2, 3=DI3, 4=DI4, 5=DI5, 6=DI6, 7=COMM, 8=BP, -1=DI1(inv), -2=DI2(inv), -3=DI3(inv), -4=DI4(inv), -5=DI5(inv), -6=DI6(inv)	1	0	S	E	Is	U
	1602	PARAMETER LOCK	0=LOCKED, 1=OPEN, 2=NOT SAVED	1	1				
	1603	PASS CODE	0 ... 0xFFFF	1	0				
	1604	FAULT RESET SEL	0=KEYPAD, 1=DI1, 2=DI2, 3=DI3, 4=DI4, 5=DI5, 6=DI6, 7=START/STOP, 8=COMM, 9=BP, -1=DI1(inv), -2=DI2(inv), -3=DI3(inv), -4=DI4(inv), -5=DI5(inv), -6=DI6(inv)	1	0		E	Is	U
	1605	USER PAR SET CHG	0=NOT SEL, 1=DI1, 2=DI2, 3=DI3, 4=DI4, 5=DI5, 6=DI6, -1=DI1(inv), -2=DI2(inv), -3=DI3(inv), -4=DI4(inv), -5=DI5(inv), -6=DI6(inv)	1	0		E	Is	U
	1606	LOCAL LOCK	0=OFF, 1=DI1, 2=DI2, 3=DI3, 4=DI4, 5=DI5, 6=DI6, 7=ON, 8=COMM, 9=BP, -1=DI1(inv), -2=DI2(inv), -3=DI3(inv), -4=DI4(inv), -5=DI5(inv), -6=DI6(inv)	1	0		E	Is	U
	1607	PARAM SAVE	0=DONE, 1=SAVE...	1	0				
LIMITS 20	2001	MINIMUM SPEED	-30000 - 30000 rpm	1 rpm	0		1	1	1
	2002	MAXIMUM SPEED	0 - 30000 rpm	1 rpm	1500		1	1	1
	2003	MAX CURRENT	(depends on drive type)	0.1 A	1.5*In		1	1	1
	2007	MINIMUM FREQ	-500 - 500 Hz	0.1 Hz	0		1	1	1
	2008	MAXIMUM FREQ	0 - 500 Hz	0.1 Hz	50		1	1	1
	2013	TORQUE MIN SEL	0=NOT SEL, 1=DI1, 2=DI2, 3=DI3, 4=DI4, 5=DI5, 6=DI6, 7=COMM, 8=BP, -1=DI1(inv), -2=DI2(inv), -3=DI3(inv), -4=DI4(inv), -5=DI5(inv), -6=DI6(inv)	1	0		E	Is	U

Dept	Prepared	Date	Status	Rev
Preliminary				

GROUP	CODE	NAME	RANGE	RESOL	Default	S=Edit only if stop	E=Store to E2P	Is=Immed. save	U=Upgrade possible
	2014	TORQUE MAX SEL	0=NOT SEL, 1=D11, 2=D12, 3=D13, 4=D14, 5=D15, 6=D16, 7=COMM, 8=BP, -1=D11(inv), -2=D12(inv), -3=D13(inv), -4=D14(inv), -5=D15(inv), -6=D16(inv)	1	0		E	Is	U
	2015	MINIMUM TORQ 1	-700.0% - 0%	0.1 %	-300.0%		1	1	1
	2016	MINIMUM TORQ 2	-700.0% - 0%	0.1 %	-300.0%		1	1	1
	2017	MAXIMUM TORQ 1	0% - 700.0%	0.1 %	300.0%		1	1	1
	2018	MAXIMUM TORQ 2	0% - 700.0%	0.1 %	300.0%		1	1	1
START/STOP 21	2102	STOP FUNCTION	1=COAST, 2=RAMP	1	1		E	Is	U
	2104	DC HOLD	0=OFF, 1=SPD CONTROL, 2=RUN CONTROL	1	0	1	1	1	1
	2105	DC HOLD SPEED	0-3000 rpm	1 rpm	5 rpm		1	1	1
	2106	DC CURR REF	0% - 100%	1%	30%		1	1	1
	2107	DC BRAKE TIME	0-250 s	0.1 s	0 s		1	1	1
	2108	START INHIBIT	0=OFF, 1=ON	1	0	1	E	Is	U
	2109	EM STOP SEL	0=NOT SEL, 1=D11, 2=D12, 3=D13, 4=D14, 5=D15, 6=D16, -1=D11(inv), -2=D12(inv), -3=D13(inv), -4=D14(inv), -5=D15(inv), -6=D16(inv)	1	0		E	Is	U
ACCEL/DECEL 22	2201	ACC/DEC 1/2 SEL	0=NOT SEL, 1=D11, 2=D12, 3=D13, 4=D14, 5=D15, 6=D16, -1=D11(inv), -2=D12(inv), -3=D13(inv), -4=D14(inv), -5=D15(inv), -6=D16(inv)	1	0				
	2202	ACCELER TIME 1	0.1 - 1800.0 s	0.1	5.0		1	1	1
	2203	DECELER TIME 1	0.1 - 1800.0 s	0.1	5.0		1	1	1
	2204	SMOOTH PAIR 1	0.0 - 1000.0 s	0.1	0.0		1	1	1
	2205	ACCELER TIME 2	0.1 - 1800.0 s	0.1	60.0		1	1	1
	2206	DECELER TIME 2	0.1 - 1800.0 s	0.1	60.0		1	1	1
	2207	SMOOTH PAIR 2	0.0 - 1000.0 s	0.1	0.0		1	1	1
	2208	EM DEC TIME	0.0 - 1800.0 s	0.1	1.0		1	1	1
	2209	RAMP INPUT 0	0=NOT SEL, 1=D11, 2=D12, 3=D13, 4=D14, 5=D15, 6=D16, -1=D11(inv), -2=D12(inv), -3=D13(inv), -4=D14(inv), -5=D15(inv), -6=D16(inv)	1	0		E	Is	U
SPEED CONTROL 23	2301	PROP GAIN	0.00 - 200.00	0.01	10		1	1	1
	2302	INTEGRATION TIME	0 - 600.00 s	0.01 s	2.50		1	1	1
	2303	DERIVATION TIME	0 - 10000 ms	1ms	0		1	1	1
	2304	ACC COMPENSATION	0 - 600.00 s	0.01 s	0		1	1	1
TORQUE CONTROL 24	2401	TORQ RAMP UP	0.00 - 120.00 s	0.01 s	0		1	1	1
	2402	TORQ RAMP DOWN	0.00 - 120.00 s	0.01 s	0		1	1	1
CRITICAL SPEEDS 25	2501	CRIT SPEED SEL	0=OFF, 1=ON		0		1	1	1
	2502	CRIT SPEED 1 LO	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	0 rpm / 0 Hz		1	1	1
	2503	CRIT SPEED 1 HI	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	0 rpm / 0 Hz		1	1	1
	2504	CRIT SPEED 2 LO	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	0 rpm / 0 Hz		1	1	1
	2505	CRIT SPEED 2 HI	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	0 rpm / 0 Hz		1	1	1
	2506	CRIT SPEED 3 LO	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	0 rpm / 0 Hz		1	1	1
	2507	CRIT SPEED 3 HI	0 - 30000 rpm / 0-500 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	0 rpm / 0 Hz		1	1	1
MOTOR CONTROL 26	2603	IR COMP VOLT	0.1 - 20.0 %	0.1	0		1	1	1
	2604	IR COMP FREQ	0 - 100 %	1	50		1	1	1
	2606	SWITCHING FREQ	0=1kHz, 1=4kHz, 2=8kHz, 3=12kHz, 4=16kHz	1	0		1	1	1
FUNCTIONS 30	3001	AI-MIN FUNCTION	0=NOT SEL, 1=FAULT, 2=CONST SP 7, 3=LAST SPEED	1	0				
	3002	PANEL COMM ERR	1=FAULT, 2=CONST SP 7, 3=LAST SPEED	1	1				U
	3003	EXTERNAL FAULT 1	0=NOT SEL, 1=D11, 2=D12, 3=D13, 4=D14, 5=D15, 6=D16, -1=D11(inv), -2=D12(inv), -3=D13(inv), -4=D14(inv), -5=D15(inv), -6=D16(inv)	1	0		E	Is	U
	3004	EXTERNAL FAULT 2	(as 3003)	1	0		E	Is	U
	3005	MOT THERM PROT	0=NONE, 1=FAULT, 2=WARNING	1	1		1	1	1
	3006	MOT THERM TIME	256 - 9999 s	1	500 s		1	1	1
	3007	MOT LOAD CURVE	50 - 150 %	1	100%		1	1	1

Dept	Prepared	Date	Status	Rev
			Preliminary	

GROUP	CODE	NAME	RANGE	RESOL	Default	S=Edit only if slot	E=Store to E2P	Is=Immed. save	U=Update possible
FAULT	3008	ZERO SPEED LOAD	25 - 150 %	1	70%		1	1	1
	3009	BREAK POINT FREQ	1 - 250 Hz	1	35 Hz		1	1	1
	3018	COMM FAULT FUNC	0=NO, 1=FAULT, 2=CONST SP7, 3=LAST SPEED	1	1		E		U
	3019	COMM FAULT TIME	0 - 60.0s	0.1s	3.0s		E		U
	3021	AI1 FAULT LIMIT	0-100%	0.1%	0				
	3022	AI2 FAULT LIMIT	0-100%	0.1%	0				
AUTOMATIC RESET 31	3101	NR OF TRIALS	0-5	1	0		E	Is	U
	3102	TRIAL TIME	1.0-600.0 s	0.1 s	30s		E	Is	U
	3103	DELAY TIME	0.0-120.0 s	0.1 s	0s		E	Is	U
SUPERVISION 32	3201	SUPERV 1 PARAM	?	1	103		E	Is	U
	3202	SUPERV 1 LIM LO	-	-	0		E	Is	U
	3203	SUPERV 1 LIM HI	-	-	0		E	Is	U
	3204	SUPERV 2 PARAM	?	1	103		E	Is	U
	3205	SUPERV 2 LIM LO	-	-	0		E	Is	U
	3206	SUPERV 2 LIM HI	-	-	0		E	Is	U
	3207	SUPERV 3 PARAM	?	1	103		E	Is	U
	3208	SUPERV 3 LIM LO	-	-	0		E	Is	U
	3209	SUPERV 3 LIM HI	-	-	0		E	Is	U
PANEL DISPLAY PROCESS VARIABLES 34	3401	PARAMETER1 INDEX	00.00 - 255.255 ??ONKO NÄIN?? - TUSKIN	?	0				
	3402	PAR1 DOT PLACE	0=+0, 1=+/-0, 2=+0.0, 3=+/-0.0, 4=+0.00, 5=+/-0.00, 6=+0.000, 7=+/-0.000	1	0				
	3403	PARAMETER1 UNIT	0-255	1	0				
	3404	PARAMETER1 MIN	-32768 .. 32768	1	0				
	3405	PARAMETER1 MAX	-32768 .. 32768	1	0				
	3406	PARAMETER2 INDEX	00.00 - 255.255	1	0				
	3407	PAR2 DOT PLACE	0 - 3	1	0				
	3408	PARAMETER2 UNIT	0-255	1	0				
	3409	PARAMETER2 MIN	-32768 .. 32768	1	0				
	3410	PARAMETER2 MAX	-32768 .. 32768	1	0				
	3411	PARAMETER3 INDEX	00.00 - 255.255	1	0				
	3412	PAR3 DOT PLACE	0 - 3	1	0				
	3413	PARAMETER3 UNIT	0-255	1	0				
	3414	PARAMETER3 MIN	-32768 .. 32768	1	0				
	3415	PARAMETER3 MAX	-32768 .. 32768	1	0				
PROCESS PID SET 1 40	4001	GAIN	0.1-100	0.1	1.0		1	1	1
	4002	INTEGRATION TIME	0=NOT SEL, 0.1-600 s	0.1 s	60s		1	1	1
	4003	DERIVATION TIME	0-60 s	0.1 s	0 s		1	1	1
	4004	PID DERIV FILTER	0-10 s	0.1 s	1 s		1	1	1
	4005	ERROR VALUE INV	0=NO, 1=YES	-	0		1	1	1
	4006	UNITS	0=NO SEL, 1=A, 2=V, 3=Hz, 4=%, 5=s, 6=h, 7=rpm, 8=kg, 9=°C, 10=lb ft, 11=mA, 12=mV, 13=kW, 14=W, 15=kWh, 16=°F, 17=hp, 18=MWh, 19=m/s, 20=m ³ /h, 21=dm ³ /s, 22=bar, 23=kPa, 24=GPM, 25=PSI, 26=CFM, 27=ft, 28=MGD, 29=inHg, 30=FPM, 31=Cst	-	4		1	1	1
	4007	UNIT SCALE	0-4	1	1		1	1	1
	4008	0% VALUE	int:-10000...10000, decimal point location from par 4007 and unit from par4006	1	0.0%		1	1	1
	4009	100% VALUE	int:-10000...10000, decimal point location from par 4007 and unit from par4006	1	100.0%		1	1	1
	4010	SET POINT SEL	0=KEYPAD, 1=AI1, 2=AI2, 5=DI3U,4D(R), 6=DI3U,4D, 7=DI5U,6D, 8=COMM, 9=COMM+AI1, 10=COMM*AI1, 11=DI3U,4D(RNC), 12=DI3U,4D(NC), 13=DI5U,6D(NC), 14=AI1+AI2, 15=AI1*AI2, 16=AI1-AI2, 17=AI1/AI2, 18=BP, 19=INTERNAL	1	2		1	1	1
	4011	INTERNAL SETPNT	int:-10000...10000, decimal point location from par 4007 and unit from par4006	1	40.0%		1	1	1
	4012	SETPOINT MIN	-500.0%...500.0%	0.1%	0%		1	1	1
	4013	SETPOINT MAX	-500.0%...500.0%	0.1%	100.0%		1	1	1
	4014	FBK SEL	0=ACT1, 1=ACT1-ACT2, 2=ACT1+ACT2, 3=ACT1*ACT2, 4=ACT1/ACT2, 5=MIN(A1,A2), 6=MAX(A1,A2), 7=sqrt(A1-A2), 8=sqrt(A1+sqA2)	-	0		1	1	1


Dept	Prepared	Date	Status	Rev
Preliminary				

GROUP	CODE	NAME	RANGE	RESOL	Default	S=Edit only if slot	E=Store to E2P	Is=Immed. save	U=Upload possible		
	4015	FBK MULTIPLIER	-32.768 ... 32.767 (0=not used)	0.001	0			1	1	1	
	4016	ACT1 INPUT	0=A11, 1=A12, 2=CURRENT, 3=TORQUE, 4=POWER	-	1			1	1	1	
	4017	ACT2 INPUT	0=A11, 1=A12, 2=CURRENT, 3=TORQUE, 4=POWER	-	1			1	1	1	
	4018	ACT1 MINIMUM	-1000-1000%	1 %	0 %			1	1	1	
	4019	ACT1 MAXIMUM	-1000-1000%	1 %	100 %			1	1	1	
	4020	ACT2 MINIMUM	-1000-1000%	1 %	0 %			1	1	1	
	4021	ACT2 MAXIMUM	-1000-1000%	1 %	100 %			1	1	1	
	4022	SLEEP SELECTION	0=OFF, 1=D11, 2=D12, 3=D13, 4=D14, 5=D15, 6=D16, 7=INTERNAL	-	0			1	1	1	
	4023	PID SLEEP LEVEL	0 - 7200 rpm / 0-120 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	0			1	1	1	
	4024	PID SLEEP DELAY	0.0-3600 s	0.1 s	60 s			1	1	1	
	4025	WAKE-UP LEVEL	int:-10000...10000, decimal point location from par 4007 and unit from par4006	1	0			1	1	1	
	4026	WAKE-UP DELAY	0-60s	0.01s	0.50s			1	1	1	
	4027	PID 1 PARAM SET	1=D11, 2=D12, 3=D13, 4=D14, 5=D15, 6=D16, -1=D11(inv), -2=D12(inv), -3=D13(inv), -4=D14(inv), -5=D15(inv), -6=D16(inv), 7=Set 1, 8=Set 2	1	7			1	1	1	
	PROCESS PID SET 2 41	4101	GAIN	0.1-100	0.1	1.0			1	1	1
		4102	INTEGRATION TIME	0=NOT SEL, 0.1-600 s	0.1 s	60s			1	1	1
4103		DERIVATION TIME	0-60 s	0.1 s	0 s			1	1	1	
4104		PID DERIV FILTER	0-10 s	0.1 s	1 s			1	1	1	
4105		ERROR VALUE INV	0=NO, 1=YES	-	0			1	1	1	
4106		UNITS	0=NO SEL, 1=A, 2=V, 3=Hz, 4=, 5=s, 6=h, 7=rpm, 8=kh, 9=°C, 10=lb ft, 11=mA, 12=mV, 13=kW, 14=W, 15=kWh, 16=°F, 17=hp, 18=MWh, 19=m/s, 20=m ³ /h, 21=dm ³ /s, 22=bar, 23=kPa, 24=GPM, 25=PSI, 26=CFM, 27=ft, 28=MGD, 29=inHg, 30=FPM, 31=Cst	-	4			1	1	1	
4107		UNIT SCALE	0-4	1	1			1	1	1	
4108		0% VALUE	int:-10000...10000, decimal point location from par 4107 and unit from par4106	1	0.0%			1	1	1	
4109		100% VALUE	int:-10000...10000, decimal point location from par 4107 and unit from par4106	1	100.0%			1	1	1	
4110		SET POINT SEL	0=KEYPAD, 1=A11, 2=A12, 5=DI3U,4D(R), 6=DI3U,4D, 7=DI5U,6D, 8=COMM, 9=COMM+A11, 10=COMM*A11, 11=DI3U,4D(RNC), 12=DI3U,4D(NC), 13=DI5U,6D(NC), 14=A11+A12, 15=A11*A12, 16=A11-A12, 17=A11/A12, 18=BP, 19=INTERNAL	1	2		1	1	1	1	
4111		INTERNAL SETPNT	int:-10000...10000, decimal point location from par 4007 and unit from par4006	1	40.0%			1	1	1	
4112		SETPOINT MIN	-500.0%...500.0%	0.1%	0%			1	1	1	
4113		SETPOINT MAX	-500.0%...500.0%	0.1%	100.0%			1	1	1	
4114		FBK SEL	0=ACT1, 1=ACT1-ACT2, 2=ACT1+ACT2, 3=ACT1*ACT2, 4=ACT1/ACT2, 5=MIN(A1,A2), 6=MAX(A1,A2), 7=sqrt(A1-A2), 8=sqrt(A1+sqA2)	-	0			1	1	1	
4115		FBK MULTIPLIER	-32.768 ... 32.767 (0=not used)	0.001	0			1	1	1	
4116		ACT1 INPUT	0=A11, 1=A12, 2=CURRENT, 3=TORQUE, 4=POWER	-	1			1	1	1	
4117		ACT2 INPUT	0=A11, 1=A12, 2=CURRENT, 3=TORQUE, 4=POWER	-	1			1	1	1	
4118		ACT1 MINIMUM	-1000-1000%	1 %	0 %			1	1	1	
4119		ACT1 MAXIMUM	-1000-1000%	1 %	100 %			1	1	1	
4120		ACT2 MINIMUM	-1000-1000%	1 %	0 %			1	1	1	
4121	ACT2 MAXIMUM	-1000-1000%	1 %	100 %			1	1	1		
4122	SLEEP SELECTION	0=OFF, 1=D11, 2=D12, 3=D13, 4=D14, 5=D15, 6=D16, 7=INTERNAL	-	0			1	1	1		
4123	PID SLEEP LEVEL	0 - 7200 rpm / 0-120 Hz (units determined by parameter 9904)	1 rpm / 0.1 Hz	0			1	1	1		
4124	PID SLEEP DELAY	0.0-3600 s	0.1 s	60 s			1	1	1		
4125	WAKE-UP LEVEL	int:-10000...10000, decimal point location from par 4107 and unit from par4106	1	0			1	1	1		
4126	WAKE-UP DELAY	0-60s	0.01s	0.50s			1	1	1		
4201	GAIN	0.1-100	0.1	1.0			1	1	1		
4202	INTEGRATION TIME	0=NOT SEL, 0.1-600 s	0.1 s	60s			1	1	1		

Dept	Prepared	Date	Status	Rev
Preliminary				

GROUP	CODE	NAME	RANGE	RESOL	Default	S=Edit only if stop	E=Store to E2P	Is=Immed. save	U=Upgrade possible
EXTERNAL / TRIMMING PID 42	4203	DERIVATION TIME	0-60 s	0.1 s	0 s		1	1	1
	4204	PID DERIV FILTER	0-10 s	0.1 s	1 s		1	1	1
	4205	ERROR VALUE INV	0=NO, 1=YES	-	0		1	1	1
	4206	UNITS	0=NO SEL, 1=A, 2=V, 3=Hz, 4=%, 5=s, 6=h, 7=rpm, 8=kh, 9=°C, 10=lb ft, 11=mA, 12=mV, 13=kW, 14=W, 15=kWh, 16=°F, 17=hp, 18=MWh, 19=m/s, 20=m3/h, 21=dm3/s, 22=bar, 23=kPa, 24=GPM, 25=PSI, 26=CFM, 27=ft, 28=MGD, 29=inHg, 30=PPM, 31=Cst	-	4		1	1	1
	4207	UNIT SCALE	0-4	1	1		1	1	1
	4208	0% VALUE	int:-10000...10000, decimal point location from par 4207 and unit from par4206	1	0.0%		1	1	1
	4209	100% VALUE	int:-10000...10000, decimal point location from par 4207 and unit from par4206	1	100.0%		1	1	1
	4210	SET POINT SEL	0=KEYPAD, 1=A1, 2=A2, 5=DI3U,4D(R), 6=DI3U,4D, 7=DI5U,6D, 8=COMM, 9=COMM+A1, 10=COMM*A1, 11=DI3U,4D(RNC), 12=DI3U,4D (NC), 13=DI5U,6D(NC), 14=A1+A2, 15=A1*A2, 16=A1-A2, 17=A1/A2, 18=BP, 19=INTERNAL	1	2	1	1	1	1
	4211	INTERNAL SETPNT	int:-10000...10000, decimal point location from par 4007 and unit from par4006	1	40.0%		1	1	1
	4212	SETPOINT MIN	-500.0%...500.0%	0.1%	0		1	1	1
	4213	SETPOINT MAX	-500.0%...500.0%	0.1%	100.0%		1	1	1
	4214	FBK SEL	0=ACT1, 1=ACT1-ACT2, 2=ACT1+ACT2, 3=ACT1*ACT2, 4=ACT1/ACT2, 5=MIN(A1,A2), 6=MAX(A1,A2), 7=sqrt(A1-A2), 8=sqA1+sqA2	-	0		1	1	1
	4215	FBK MULTIPLIER	-32.768 ... 32.767 (0=not used)	0.001	0		1	1	1
	4216	ACT1 INPUT	0=A1, 1=A2, 2=CURRENT, 3=TORQUE, 4=POWER	-	1		1	1	1
	4217	ACT2 INPUT	0=A1, 1=A2, 2=CURRENT, 3=TORQUE, 4=POWER	-	1		1	1	1
	4218	ACT1 MINIMUM	-1000-1000%	1 %	0 %		1	1	1
	4219	ACT1 MAXIMUM	-1000-1000%	1 %	100 %		1	1	1
	4220	ACT2 MINIMUM	-1000-1000%	1 %	0 %		1	1	1
	4221	ACT2 MAXIMUM	-1000-1000%	1 %	100 %		1	1	1
	4228	ACTIVATE	0=OFF, 1=DI1, 2=DI2, 3=DI3, 4=DI4, 5=DI5, 6=DI6, 7=DRIVE RUN, 8=ON	-	0		1	1	1
	4229	OFFSET	0.0-100.0%	0.1%	0		1	1	1
	4230	TRIM MODE	1=OFF, 2=Proportional, 3=Direct	1	1		E	I	U
4231	TRIM SCALE	-100.0% ... 100.0%	0.1%	100.0%		E	I	U	
4232	CORRECTION SRC	1=PID2REF, 2=PID2OUTPUT	1	1		E	I	U	
ENCODER 50	5001	PULSE NR	0 - 29999	1	1024				
ILE	5101	FBA TYPE	(0-0xFFFF) 0=NOT DEFINED, 1=PROFIBUS-DP, 16=INTERBUS, 21=LONWORKS, 32=CANopen, 37=DEVICENET, 64=MODBUS PLUS, 101=CONTROLNET, 128=ETHERNET	1	0			Is	
	5102	FBA PAR 2	0 - 65535	1	0		E		
	5103	FBA PAR 3	0 - 65535	1	0		E		
	5104	FBA PAR 4	0 - 65535	1	0		E		
	5105	FBA PAR 5	0 - 65535	1	0		E		
	5106	FBA PAR 6	0 - 65535	1	0		E		
	5107	FBA PAR 7	0 - 65535	1	0		E		
	5108	FBA PAR 8	0 - 65535	1	0		E		
	5109	FBA PAR 9	0 - 65535	1	0		E		
	5110	FBA PAR 10	0 - 65535	1	0		E		
	5111	FBA PAR 11	0 - 65535	1	0		E		
	5112	FBA PAR 12	0 - 65535	1	0		E		
	5113	FBA PAR 13	0 - 65535	1	0		E		
	5114	FBA PAR 14	0 - 65535	1	0		E		
	5115	FBA PAR 15	0 - 65535	1	0		E		

Dept	Prepared	Date	Status	Rev					
Preliminary									
GROUP	CODE	NAME	RANGE	RESOL	Default	S=Edit only if stop	E=Store to E2P	Is=Immed. save	U=Upgrade possible
EXT COMM MODU	5116	FBA PAR 16	0 - 65535	1	0		E		
	5117	FBA PAR 17	0 - 65535	1	0		E		
	5118	FBA PAR 18	0 - 65535	1	0		E		
	5119	FBA PAR 19	0 - 65535	1	0		E		
	5120	FBA PAR 20	0 - 65535	1	0		E		
	5121	FBA PAR 21	0 - 65535	1	0		E		
	5122	FBA PAR 22	0 - 65535	1	0		E		
	5123	FBA PAR 23	0 - 65535	1	0		E		
	5124	FBA PAR 24	0 - 65535	1	0		E		
	5125	FBA PAR 25	0 - 65535	1	0		E		
	5126	FBA PAR 26	0 - 65535	1	0		E		
	5127	FBA PAR REFRESH	0=DONE, 1=REFRESH	1	0				
	5128	FILE CPI FW REV	0 - 0xFFFF	1	0				
	5129	FILE CONFIG ID	0 - 0xFFFF	1	0				
	5130	FILE CONFIG REV	0 - 0xFFFF	1	0				
	5131	FBA STATUS	0=IDLE, 1=EXECUT. INIT, 2=TIME OUT, 3=CONFIG ERROR, 4=OFF-LINE, 5=ON-LINE, 6=RESET	1	0				
	5132	FBA CPI FW REV	0 - 0xFFFF	1	0				
5133	FBA APPL FW REV	0 - 0xFFFF	1	0					
PANEL COMM 52	5201	PANEL ADDRESS	1 - 247	1	1				
	5202	PANEL BAUDRATE	9.6, 19.2, 38.4, 57.6, 115.2	-	9.6				
	5203	PARITY/STOP BITS	0=NO PAR 1SB, 1=EVEN PAR 1SB, 2=ODD PAR 1SB, 3=NO PAR 2SB, 4=EVEN PAR 2SB, 5=ODD PAR 2SB	1	0				
	5204	OK MESSAGES	0 - 65536	1	-				
	5205	PARITY ERR CNT	0 - 65536	1	-				
	5206	FRAMING ERR CNT	0 - 65536	1	-				
	5207	RECBUF OVERF CNT	0 - 65536	1	-				
	5208	CRC ERRORS CNT	0 - 65536	1	-				
EFB PROTOCOL???? 53	5301	EFB TYPE	0 - 0xFFFF	1	0			Is	
	5302	EFB PAR 2	0 - 65535	1	0		E		
	5303	EFB PAR 3	0 - 65535	1	0		E		
	5304	EFB PAR 4	0 - 65535	1	0		E		
	5305	EFB PAR 5	0 - 65535	1	0		E		
	5306	EFB PAR 6	0 - 65535	1	0		E		
	5307	EFB PAR 7	0 - 65535	1	0		E		
	5308	EFB PAR 8	0 - 65535	1	0		E		
	5309	EFB PAR 9	0 - 65535	1	0		E		
	5310	EFB PAR 10	0 - 65535	1	0		E		
	5311	EFB PAR 11	0 - 65535	1	0		E		
	5312	EFB PAR 12	0 - 65535	1	0		E		
	5313	EFB PAR 13	0 - 65535	1	0		E		
	5314	EFB PAR 14	0 - 65535	1	0		E		
	5315	EFB PAR 15	0 - 65535	1	0		E		
PFC CONTROL 81	8103	REFERENCE STEP 1	0.0-100%	0.1%	0%		E	Is	U
	8104	REFERENCE STEP 2	0.0-100%	0.1%	0%		E	Is	U
	8105	REFERENCE STEP 3	0.0-100%	0.1%	0%		E	Is	U
	8109	START FREQ 1	0.0-500Hz	0.1Hz	50Hz / US: 60Hz		E	Is	U
	8110	START FREQ 2	0.0-500Hz	0.1Hz	50Hz / US: 60Hz		E	Is	U
	8111	START FREQ 3	0.0-500Hz	0.1Hz	50Hz / US: 60Hz		E	Is	U
	8112	LOW FREQ 1	0.0-500Hz	0.1Hz	25Hz / US: 30Hz		E	Is	U
	8113	LOW FREQ 2	0.0-500Hz	0.1Hz	25Hz / US: 30Hz		E	Is	U
	8114	LOW FREQ 3	0.0-500Hz	0.1Hz	25Hz / US: 30Hz		E	Is	U
	8115	AUX MOT START D	0.0-3600s	0.1s; 1s	5s		E	Is	U
	8116	AUX MOT STOP D.	0.0-3600s	0.1s; 1s	3s		E	Is	U
	8117	NR OF AUX MOT	0-3	1	1	S	E	Is	U
	8118	AUTOCHNG INTERV	0=NOT SEL, 0.1-336h	0.1h	0.0h	S	E	Is	U
	8119	AUTOCHNG LEVEL	0.0-100.0 %	0.1 %	50 %		E	Is	U
	8120	INTERLOCKS	0=NOT SEL, 1=D11, 2=D12, 3=D13, 4=D14, 5=D15, 6=EXTERNAL IO	1	4 / HVAC: 0	S	E	Is	U
8121	REG BYPASS CTRL	0=NO, 1=YES	1	0		E	Is	U	
8122	PFC START DELAY	0-10s	0.01s	0.5s		E	Is	U	
8123	PFC ENABLE	0=NOT SEL, 1=ACTIVE		0	S	E	Is	U	
OPTIONS	9802	COMM PROT SEL	0=NOT SEL, 1=STD MODBUS, 4=EXT FBA	1	0	S	E		

		ABB Industry		ACS Parametre Listesi					
AC Components									
Dept	Prepared	Date	Status	Rev					
Preliminary									
GROUP	CODE	NAME	RANGE	RESOL	Default	S=Edit only if stop	E=Store to E2P	Is=Immed. save	U=Update possible
98									