

Altivar ATV310 Complete Parameter List

ENGLISH



EAV9613611

Reference mode

- 402 External reference value
- 403 Integrated display jog dial reference
- 801 Speed reference
- 59.11 Internal PID reference
- 806 PID reference value

Monitoring mode

- 402 External reference value
- 403 Integrated display jog dial reference
- 801 Speed reference
- 802 Output frequency
- 803 Motor current
- 804 PID error
- 805 PID Feedback
- 806 PID reference
- 807 Main voltage
- 808 Motor thermal state
- 809 Drive thermal state
- 810 Output power
- 811 **Product status**
 - [00] Drive ready
 - [01] Drive running
 - [02] Acceleration
 - [03] Deceleration
 - [04] DC injection braking in progress
 - [05] Current limitation state
 - [06] Freewheel stop control or freewheel state
 - [07] Auto-adapted deceleration
 - [08] Controlled stop on mains phase loss
 - [09] Auto-tuning in progress
 - [10] Fast stop state
 - [11] No line power state
 - [12] Drive in back state
 - [13] Remote control mode
 - [14] Local control mode
- 812 Motor torque
- 813 Motor voltage

900- MAINTENANCE MENU

- 901 State of logic inputs L11 to L14
- 902 State of the logic output LO1 and relay R1
- 903 Display of high speed value
- 904 **Drive Power rating**
 - 037, 075, U15, U22, U30, U40, U55, U75, D11, D15, D18, D22
- 905 **Drive voltage rating**
 - N4
- 906 Specific Product Number
- 907 Card 1 Software Version
- 908 Card 2 Software Version
- 909 Run elapsed time display
- 910 Power On time display
- 911 Fan time display
- 912 Process Elapsed time
- 913 Modbus communication status
- 914 Last fault 1
- 915 State of drive at fault 1
- 916 Last fault 2
- 917 State of drive at fault 2
- 918 Last fault 3
- 919 State of drive at fault 3
- 920 Last fault 4
- 921 State of drive at fault 4
- 999 HMI Password
- F000 **Fault list**
 - F001 Precharge
 - F002 Unknown drive rating
 - F003 Unknown or incompatible power board
 - F004 Internal serial link
 - F005 Invalid industrialization zone
 - F006 Current measurement circuit

- F007 Internal thermal sensor fault
- F008 Internal CPU
- F009 Overbraking
- F010 Overcurrent
- F011 Drive overheat
- F012 Process overload
- F013 Motor overload
- F014 1 Output phase loss
- F015 3 Output phases loss
- F016 Main overvoltage
- F017 Input phase loss
- F018 Motor short-circuit
- F019 Ground short-circuit
- F020 IGBT short circuit
- F021 Load short circuit
- F022 Modbus interruption
- F024 HMI communication
- F025 Overspeed
- F026 PI feedback fault
- F027 IGBT overheat
- F028 Autotuning fault
- F029 Process underload fault
- F030 Undervoltage
- F031 Incorrect configuration
- F032 Invalid configuration
- F033 AI1 current loss
- F034 Download invalid configuration
- F036 Angle setting fault

Configuration mode

- 301 **Standard motor frequency**
 - [00]* 50Hz IEC
 - [01] 60Hz NEMA
- 308 **Maximum frequency**
 - 10 to 400Hz (60Hz*)
- 401 **Reference channel 1**
 - [01]* Analog terminal
 - [163] Remote display
 - [164] Modbus
 - [183] Integrated display with Jog dial
- 501.0 **Acceleration**
 - 0.0 s to 999.9s (3.0s*)
- 501.1 **Deceleration**
 - 0.0 s to 999.9s (3.0s*)
- 512.0 **Low speed**
 - 0.0Hz to High speed (0Hz*)
- 512.2 **High speed**
 - Low speed to Max frequency (50 or 60 Hz determined by 301 parameter value.)
- 302 **Rated Motor Power**
 - Drive power -5 to +2**
- 305 **Rated motor current**
 - 0.25-1.5In**
- 204.0 **AI1 type**
 - [5U]* 0-5 V
 - [10U] 0-10 V
 - [0A] x-y mA
 - [L1U] Logic inputs
- 101 **Store customer parameter set**
 - [00]* Disabled
 - [01] Stores current configuration
- 102 **Factory / recall customer parameter set**
 - [00]* Disabled
 - [02] Customer configuration
 - [64] Factory set configuration

COMPLETE MENU

- 100 **Macro-configuration**
 - [00]* Start/stop
 - [04] PID regulation
 - [09] Speed

200- I/O MENU

- 201 **Type of control**
 - [00]* 2-wire control
 - [01] 3-wire control
- 202 **2-wire type control**
 - [00] Level
 - [01]* Transition
 - [02] Forward priority
- 203 **Logic inputs type**
 - [00]* Positive
 - [01] Negative internal supply
 - [02] Negative external supply
- 204- **AI1 CONFIGURATION MENU**
 - 204.0 **AI1 type**
 - [5U]* Voltage: 0-5 Vdc
 - [10U] Voltage: 0-10 Vdc
 - [0A] Current: x-y mA
 - [L1U] Logic inputs
 - 204.1 **AI1 current scaling parameter of 0%**
 - 0-20mA (4 mA*)
 - 204.2 **AI1 current scaling parameter of 100%**
 - 0-20mA (20 mA*)
 - 204.3 **AI1 filter time**
 - 0 s to 10 s (0 s*)

205- R1 CONFIGURATION MENU

- 205.0 **R1 assignment**
 - [00] Not assigned
 - [01]* No fault
 - [02] Drive run
 - [04] Frequency threshold reached
 - [05] HSP reached
 - [06] I threshold reached
 - [07] Frequency reference reached
 - [08] Motor thermal reached
 - [21] Process underload fault
 - [22] Process overload fault
 - [123] Loss of 4-20 mA signal
- 205.1 **R1 status (output active level)**
 - [00]* Positive logic : active high
 - [01] Negative logic: active low

206- LO1 CONFIGURATION MENU

- 206.0 **LO1 Assignment**
 - [00]* Not assigned
 - [01] No fault
 - [02] Drive run
 - [04] Frequency threshold reached
 - [05] HSP reached
 - [06] I threshold reached
 - [07] Frequency reference reached
 - [08] Motor thermal reached
 - [21] Process underload fault
 - [22] Process overload fault
 - [123] AI1 alarm 4-20 mA
 - [126] Auxiliary pump active
- 206.1 **LO1 status (output active level)**
 - [00]* Positive logic : active high
 - [01] Negative logic: active low
- 207 **Process overload time delay**
 - 0 to 100 s (0 s*)
- 208 **Process overload threshold**
 - 70 to 150 % of nominal motor current (90 %*)
- 209 **Process overload fault duration**
 - 0 to 6 min (0 min*)
- 210 **Process underload time delay**
 - 0 to 100 s (0 s*)
- 211 **Process underload threshold**
 - 20 to 100 % of nominal motor current (60 %*)
- 212 **Process underload fault duration**
 - 0 to 6 min (0 min*)

- 213 **Motor frequency threshold**
 - 0 to 400 Hz (50 Hz* or 60 Hz)
- 214 **Motor current threshold**
 - 0 to 1.5In (In*)
- 215 **Motor thermal state threshold**
 - 0 to 118 % of motor thermal state (100 %*)
- 216.0 **AO1 assignment**
 - [00]* Not assigned
 - [129] Motor current
 - [130] Output frequency
 - [131] Ramp output
 - [135] PID reference
 - [136] PID feedback
 - [137] PID error
 - [139] Output power
 - [140] Motor thermal state
 - [141] Drive thermal state
- 216.1 **AO1 type**
 - [10U] Voltage: 0-10 Vdc
 - [0A]* Current: 0-20 mA
 - [4A] Current: 4-20 mA
- 217 **Speed Template**
 - [BSD]* Standards
 - [BLS] Pedestal
 - [BNS] Deadband
 - [BNS0] Deadband at 0 %

300- MOTOR CONTROL MENU

- 301 **Standard motor frequency**
 - [00]* 50 Hz
 - [01] 60 Hz
- 302 **Rated motor power**
 - Drive power -5 to +2**
- 303 **Rated motor cos phi**
 - 0.5 to 1**
- 304 **Rated motor voltage**
 - 360 to 460 V (380 V*)
- 305 **Rated motor current**
 - 0.25 to 1.5In**
- 306 **Rated motor frequency**
 - 10 to 400Hz (50Hz*)
- 307 **Rated motor speed**
 - 0 to 24000 rpm**
- 308 **Maximum frequency**
 - 10 to 400Hz (60Hz*)
- 309 **Motor control type**
 - [00] Performance: Vector control
 - [03]* Standard: U/F 2 points
 - [05] Sync. motor control (1)
 - [06] Pump: U/F
- 310 **IR compensation**
 - 25 to 200 % (100 %*)
- 311 **Slip compensation**
 - 0 to 150 % (100 %*)
- 312 **Frequency loop stability**
 - 0 to 100 % (20 %*)
- 313 **Frequency loop gain**
 - 0 to 100 % (20 %*)
- 314 **Flux Profile**
 - 0 to 100 % (20 %*)
- 315 **Switching frequency**
 - 2 to 12 kHz (4 kHz*)
- 317 **Motor noise reduction**
 - [00]* No
 - [01] Yes
- 318 **Auto-tuning**
 - [00]* No: Use factory parameters of standard motors
 - [01] Yes: Request auto-tuning
 - [02] Done: Auto-tuning has already been performed

- 319 **Motor parameter choice**
 - [00]* Nominal motor power
 - [01] Nominal motor cos phi
- 320 **Vector control 2 points**
 - [00]* No
 - [01] Yes
- 321 **Max voltage of constant power**
 - Rated motor voltage to 460 V (380 V*)
- 322 **Max frequency of constant power**
 - Rated motor frequency to 400 Hz (50 Hz*)
- 323 **Dual Rating**
 - [00] Normal duty
 - [01]* Heavy duty
- 324- **SYNC. MOTOR MENU (1)**
 - 324.0 **Nominal motor current**
 - 0.25 to 1.5In**
 - 324.1 **Nominal motor torque**
 - 0.1...6.553.5 Nm**
 - 324.2 **Nominal motor speed**
 - 0 to 48000 rpm**
 - 324.3 **Poles pair number**
 - 1 to 50**
 - 318 **Auto-tuning**
 - [00]* No: Use factory parameters of standard motors
 - [01] Yes: Request auto-tuning
 - [02] Done: Auto-tuning has already been performed
 - 324.4 **Nominal motor frequency (Read only)**
 - 10 to 800 Hz (Calculated by speed and poles*)
 - 324.5 **Sync. EMF constant**
 - 0 to 6553.5 mV/rpm (0.0 mV/rpm*)
 - 324.6 **% error EMF Sync (Read only)**
 - 327.6.7 to 3275.8 %
 - 324.7 **"d" axis stator inductance**
 - 0 to 655.35 mH (0.00 mH*)
 - 324.8 **"q" axis stator inductance**
 - 0 to 655.35 mH (0.00 mH*)
 - 324.9 **Cust. stator R syn**
 - 0 to 65535 mOhm (0 mOhm*)
- 325- **SYNC. MOTOR PERFORMANCE MENU (1)**
 - 325.0 **Saliency mot. state (Read only)**
 - [00] Tune not done
 - [01]* Low saliency level
 - [02] Medium saliency level
 - [03] High saliency level
 - 325.1 **Auto angle setting type**
 - [03] Alignment for IPM motor
 - [04] Alignment for SPM motor
 - [05] Pulse signal injection
 - [06]* Pulse signal injection - optimized
 - [254] No alignment
 - 325.2 **Speed filter coefficient**
 - 0 to 100 (65*)
 - 325.3 **Current reference filter time**
 - 0 to 100 ms (3.2 ms*)
 - 325.4 **Boost activation**
 - [00] No boost
 - [01]* Dynamic boost
 - [02] Static boost
 - 325.5 **Boost value**
 - 100 to 100% (0%*)
 - 325.6 **Boost frequency threshold**
 - 0 to 400 Hz (0Hz*)
 - 325.7 **Maximum current of PSI alignment**
 - 0 to 300% (0%*)

- 325.8 **Autotune status (Read only)**
 - [00]* Default autotune not done
 - [01] Autotune pending
 - [02] Autotune is in progress
 - [03] Autotune failed
 - [04] Autotune done
- 327 **Frequency reference high resolution setting**
 - [00] Standard frequency resolution
 - [01] High frequency resolution
- 400- **CONTROL MENU**
 - 401 **Reference channel 1**
 - [01]* Analog terminal
 - [163] Remote display
 - [164] Modbus
 - [183] Integrated display with Jog dial
 - 402 **External reference value**
 - 400 to 400 Hz
 - 403 **Integrated display jog dial reference**
 - 0 to 100 %
 - 404 **Reverse inhibition**
 - [00] No
 - [01] Yes
 - 405 **Stop key priority**
 - [00] No: Stop inactive
 - [01]* Yes: Stop active
 - 406 **Channel configuration**
 - [01]* Combined mode
 - [02] Separate mode
 - 407 **Command channel 1**
 - [01]* Terminals
 - [02] Integrated display
 - [03] Remote display
 - [10] Modbus
 - 408 **Forced local assignment**
 - [00]* No: Function inactive
 - [L1H] to [L4H] L11 to L14 active High
 - [LUH] LIU active High
 - 409 **Forced local reference**
 - [00]* Not assigned
 - [01] Analog terminal
 - [163] Remote display
 - [183] Integrated jog dial
 - 410 **Forced local command**
 - [01] Terminals
 - [02]* Integrated display
 - [03] Remote display
- 500- **FUNCTION MENU**
 - 501- **RAMP MENU**
 - 501.0 **Acceleration**
 - 0.0 to 999.9 s (3.0 s*)
 - 501.1 **Deceleration**
 - 0.0 to 999.9 s (3.0 s*)
 - 501.2 **Ramp shape assignment**
 - [00]* Linear
 - [01] S shape
 - [02] U shape
 - 501.3 **Ramp switching commutation**
 - [00]* Not assigned
 - [L1H] to [L4H] L11 to L14 active High
 - [LUH] LIU active High
 - [L1L] to [L4L] L11 to L14 active Low
 - [LUL] LIU active Low
 - 501.4 **Acceleration 2**
 - 0.0 to 999.9 s (5.0 s*)
 - 501.5 **Deceleration 2**
 - 0.0 to 999.9 s (5.0 s*)
 - 501.6 **Decel Ramp Adaptation assignment**
 - [00] Function deactivated
 - [01]* Function activated
 - [02] Motor brake

- 502- **STOP CONFIGURATION MENU**
 - 502.0 **Type of stop**
 - [00]* Ramp stop
 - [03] DC injection stop (2)
 - [08] Fast stop
 - [13] Free wheel stop
 - 502.1 **Freewheel stop assignment**
 - [00]* Not assigned
 - [L1L] to [L4L] L11 to L14 active Low to stop
 - [LUL] LIU active Low to stop
 - 502.2 **Fast stop assignment**
 - [00]* Not assigned
 - [L1L] to [L4L] L11 to L14 active Low to stop
 - [LUL] LIU active Low to stop
 - 502.3 **Ramp divider**
 - 1 to 10 (4*)
 - 502.4 **DC injection assignment**
 - [00]* Not assigned
 - [L1H] to [L4H] L11 to L14 active High
 - [LUH] LIU active High
 - 502.5 **DC injection level**
 - 0.1 to 1.41 In (0.64 In*)
 - 502.6 **IDC injection time for DCLI**
 - 0.1 to 30 s (0.5 s*)
 - 502.7 **DC injection level 2**
 - 0.1In to DC injection level (0.5 In*)
 - 502.8 **Injection standstill braking time**
 - 0.1 to 30 s (0.5 s*)
 - 503 **Reverse direction**
 - [00]* Not assigned
 - [L1H] to [L4H] L11 to L14 active High
 - [LUH] LIU active High
- 504- **AUTO DC INJECTION MENU**
 - 504.0 **Automatic DC injection (3)**
 - [00] Function inactive, no DC injected current.
 - [01]* Time limited DC injection
 - [02] Continuous DC injection
 - 504.1 **Automatic DC injection current**
 - 0 to 1.2 In (0.7 In*)
 - 504.2 **Automatic DC injection time**
 - 0.1 to 30 s (0.5 s*)
- 505- **JOG MENU**
 - 505.0 **Jog assignment**
 - [00]* Not assigned
 - [L1H] to [L4H] L11 to L14 active High
 - [LUH] LIU active High
 - 505.1 **Jog frequency**
 - 0 to 10 Hz (*5 Hz)
- 506- **SPEED UP AND DOWN**
 - 506.0 **Up speed command**
 - [00]* Not assigned
 - [L1H] to [L4H] L11 to L14 active High
 - [LUH] LIU active High
 - 506.1 **Down speed command**
 - [00]* Not assigned
 - [L1H] to [L4H] L11 to L14 active High
 - [LUH] LIU active High
 - 506.2 **Store**
 - [00]* No
 - [01] RAM
 - [02] ROM
 - 506.3 **Clear the function**
 - [00]* Not assigned
 - [L1H] to [L4H] L11 to L14 active High
 - [LUH] LIU active High
 - [159] Acceleration and deceleration with command active high
 - 506.4 **Reactivity of +/- speed around ref.**
 - 0 to 100 % (0 %*)

The (*) indicates a parameter factory setting.
The (**) indicates a parameter factory setting determined by drive rating and dual rating.

(1) Menus and parameters are only visible for ATV310H00N4S references and when 309 Motor control type is set to 05 Synchronous motor control.
(2) Available only when 309 Motor control type is not set to 05 Synchronous motor control.
(3) When 309 Motor control type is set to 05 Synchronous motor control, parameter 504.0 is forced to 00.

Altivar ATV310 Complete Parameter List

507 PRESET SPEED MENU

507.0 2 Preset speeds
 [00]* Not assigned
 [L1H] to [L4H] LI1 to L14 active High
 [LUH] LIU active High

507.1 4 Preset speeds
 same as 2 Preset speeds

507.2 8 Preset speeds
 same as 2 Preset speeds

507.3 Preset speed 2
 0 to 400 Hz (10 Hz*)

507.4 Preset speed 3
 0 to 400 Hz (15 Hz*)

507.5 Preset speed 4
 0 to 400 Hz (20 Hz*)

507.6 Preset speed 5
 0 to 400 Hz (25 Hz*)

507.7 Preset speed 6
 0 to 400 Hz (30 Hz*)

507.8 Preset speed 7
 0 to 400 Hz (35 Hz*)

507.9 Preset speed 8
 0 to 400 Hz (40 Hz*)

508 Skip frequency
 0 to 400 Hz (0 Hz*)

59- PID MENU- PID

59.00 PID feedback assignment
 [00]* Not assigned
 [01] Analog terminal

59.01 PID proportional gain
 0.01 to 100 (1*)

59.02 PID integral gain
 0.01 to 100 (1*)

59.03 PID derivative gain
 0.00 to 100.0 (0*)

59.04 PID feedback scale factor
 0.1 to 100.0 (1.0*)

59.05 Activation internal PID reference
 [00]* No
 [01] Yes

59.06 2 preset PID assignment
 [00]* Not assigned
 [L1H] to [L4H] LI1 to L14 active High
 [LUH] LIU active High

59.07 4 preset PID assignment
 [00]* Not assigned
 [L1H] to [L4H] LI1 to L14 active High
 [LUH] LIU active High

59.08 2 preset PID reference
 0 to 100 % (25 %*)

59.09 3 preset PID reference
 0 to 100 % (50 %*)

59.10 4 preset PID reference
 0 to 100 % (75 %*)

59.11 Internal PID reference
 0 to 100 % (0 %*)

59.12 PID reference ramp
 0 to 99.9 s (0 s*)

59.13 PID min value reference
 0 to 100 % (0 %*)

59.14 PID max value reference
 0 to 100 % (100 %*)

59.15 PID predictive speed
 0.1 to 400 Hz (0.0 Hz*)

501.4 Acceleration 2
 0.0 to 999.9 s (5 s*)

59.16 PID correction reverse
 [00]* No, no negative speed
 [01] Yes, no negative speed
 [02] No, allow negative speed
 [03] Yes, allow negative speed

59.17 PID auto/manual assignment
 [00]* Not assigned
 [L1H] to [L4H] LI1 to L14 active High
 [LUH] LIU active High

59.18 PID manual reference
 [00]* No
 [01] Analog terminal
 [183] Integrated display with Jog dial

512.1 Low speed operating time
 0.1 to 999.9 s (0 s*)

59.19 PID: wake up level
 0 to 100 % (0 %*)

59.20 PID: Wake up threshold
 0 to 100 % (0 %*)

59.21 Sleep offset threshold
 0 to High speed (0 Hz*)

59.22 PID feedback supervision threshold
 0 to 100 % (0 %*)

59.23 PID supervision function time delay
 0 to 600 s (0 s*)

59.24 Maximum frequency detection Hysteresis
 0 to High speed (0 Hz*)

59.25 PID feedback supervision
 [01]* Free wheel
 [04] Fallback speed

59.26 Fallback speed
 0 to High speed (0 Hz*)

510- PID MENU - PUMP CONTROL SUB-MENU

207 Process overload time delay
 0 to 100 s (0 s*)

208 Process overload threshold
 70 to 150% of nominal motor current (90 %*)

209 Process overload fault duration
 0 to 6 min (0 min*)

210 Process underload time delay
 0 to 100 s (0 s*)

211 Process underload threshold
 20 to 120 % of nominal motor current (60 %*)

212 Process underload fault duration
 0 to 6 min (0 min*)

510.0 Selecting operating mode
 [00]* Single frequency conversion mode
 [01] Single frequency conversion combined with auxiliary pump mode

510.1 Starting frequency of the auxiliary pump
 0 to Maximum frequency (50 Hz*)

510.2 Time delay before starting auxiliary pump
 0 to 999.9 s (2 s*)

510.3 Auxiliary pump ramp reaching
 0 to 999.9 s (2 s*)

510.4 Auxiliary pump stop frequency
 0 to Maximum frequency (0 Hz*)

510.5 Auxiliary pump stop time delay
 0 to 999.9 s (2 s*)

510.6 Auxiliary pump stop ramp
 0 to 999.9 s (2 s*)

510.7 Zero flow detection period
 0 to 20 min (0 min*)

510.8 Zero flow detection activation threshold
 0 to 400 Hz (0 Hz*)

510.9 Zero flow detection offset
 0 to 400 Hz (0 Hz*)

511- CURRENT LIMITATION MENU

511.0 2nd current limitation commutation
 [00]* Not activated
 [L1H] to [L4H] LI1 to L14 active High
 [LUH] LIU active High
 [L1L] to [L4L] LI1 to L14 active Low
 [LUL] LIU active Low

511.1 Current limitation
 0.25 to 1.5In**

511.2 Current limitation 2
 0.25 to 1.5In**

512- SPEED LIMIT MENU

512.0 Low speed
 0 Hz to high speed (0 Hz*)

512.1 Low speed operating time
 0.1 to 999.9 s (0 s*)

512.2 High speed
 Low speed to Max frequency (50 or 60 Hz determined by 301 parameter value)

512.3 2 High speed assignment
 [00]* Not assigned
 [L1H] to [L4H] LI1 to L14 active High
 [LUH] LIU active High

512.4 4 High speed assignment
 [00]* Not assigned
 [L1H] to [L4H] LI1 to L14 active High
 [LUH] LIU active High

512.5 High speed 2
 Low speed to Max frequency (50 or 60 Hz*)

512.6 High speed 3
 Low speed to Max frequency (50 or 60 Hz*)

512.7 High speed 4
 Low speed to Max frequency (50 or 60 Hz*)

513 Cooling fan control
 [00] Fan runs when drive runs
 [01]* Thermal control

600- FAULT DETECTION MANAGEMENT MENU

601 Detected fault reset assignment
 [00]* Not assigned
 [L1H] to [L4H] LI1 to L14 active High
 [LUH] LIU active High

602- AUTOMATIC RESTART MENU

602.0 Automatic restart
 [00]* No
 [01] Yes

602.1 Max. automatic restart
 [00]* 5 min
 [01] 10 min
 [02] 30 min
 [03] 1 hour
 [04] 2 hours
 [05] 3 hours
 [06] Infinite

603 Catch on the fly
 [00]* Function inactive
 [01] Function active

604- MOTOR THERMAL PROTECTION MENU

604.0 Motor thermal current
 0.2-1.5In**

604.1 Motor protection type
 [01]* Self-ventilated
 [02] Motor-ventilated

604.2 Overload fault management
 [00] Detected fault ignored
 [01]* Free wheel stop
 [08] DC injection stop

604.3 Motor thermal state memo
 [00]* thermal state not stored at power off
 [01] thermal state is stored at power off

605 Output Phase loss (4)
 [00] Deactivated
 [01]* Tripping then freewheel stop

606 Input Phase loss
 [00] Detected fault ignored
 [01]* Detected fault with freewheel stop
 [08] DC injection stop

607- UNDERVOLTAGE MENU

607.0 Undervoltage detected fault management
 [00]* Detected fault and R1 relay set 0
 [01] Detected fault and R1 relay set 1

607.1 Undervoltage prevention
 [00]* No action (freewheel)
 [01] Maintain DC Bus
 [02] Stop following an adjustable ramp

607.2 Undervoltage ramp deceleration time
 0.0 to 10.0 s (1.0 s*)

607.4 Undervoltage level
 170-248V (248V*)

607.5 Prevention level
 248-318V (318V*)

608 IGBT test
 [00]* No test
 [01] Starting test

609 4-20mA loss Behaviour
 [00]* Detected fault ignored
 [01] Freewheel stop
 [08] DC injection stop

610 Detected fault inhibition assignment
 [00]* Function inactive
 [L1H] to [L4H] LI1 to L14 active High
 [LUH] LIU active High

611 Modbus detected fault management
 [00] Detected fault ignored
 [01]* Freewheel stop
 [08] DC injection stop

612 Degraded line supply operation
 [00]* No
 [01] Yes

613 Reset power run
 [00]* No
 [03] Reset drive running time
 [04] Reset power-on time
 [07] Reset fan operation time

614 Reset all previous detected faults via Run key of HMI
 [00]* Deactivated
 [01] Active

700- COMMUNICATION MENU

701 Modbus address
 Off to 247 (off*)

702 Modbus baud rate
 [24] 4.8 kbps
 [28] 9.6 kbps
 [32]* 19.2 kbps
 [36] 38.4 kbps

703 Modbus format
 [02] 8o1
 [03]* 8E1
 [04] 8n1
 [05] 8n2

704 Modbus time out
 0.1 to 30 s (10 s*)

705- INPUT SCANNER MENU

705.0 Com scanner read address parameter 1
 0C81*

705.1 Com scanner read address parameter 2
 219C*

705.2 Com scanner read address parameter 3
 0000

705.3 Com scanner read address parameter 4
 0000

705.4 Com scanner read address parameter 5
 0000

705.5 Com scanner read address parameter 6
 0000

705.6 Com scanner read address parameter 7
 0000

705.7 Com scanner read address parameter 8
 0000

706- OUTPUT SCANNER MENU

706.0 Com scanner write address parameter 1
 2135*

706.1 Com scanner write address parameter 2
 219A*

706.2 Com scanner write address parameter 3
 0000

706.3 Com scanner write address parameter 4
 0000

706.4 Com scanner write address parameter 5
 0000

706.5 Com scanner write address parameter 6
 0000

706.6 Com scanner write address parameter 7
 0000

706.7 Com scanner write address parameter 8
 0000

707- INPUT SCANNER ACCESS MENU

707.0 Com scanner read address value 1
 ETA value*

707.1 Com scanner read address value 2
 RFRD value*

707.2 Com scanner read address value 3
 8000

707.3 Com scanner read address value 4
 8000

707.4 Com scanner read address value 5
 8000

707.5 Com scanner read address value 6
 8000

707.6 Com scanner read address value 7
 8000

707.7 Com scanner read address value 8
 8000

708- OUTPUT SCANNER ACCESS MENU

708.0 Com scanner write address value 1
 CMD value*

708.1 Com scanner write address value 2
 LFRD value*

708.2 Com scanner write address value 3
 8000

708.3 Com scanner write address value 4
 8000

708.4 Com scanner write address value 5
 8000

708.5 Com scanner write address value 6
 8000

708.6 Com scanner write address value 7
 8000

708.7 Com scanner write address value 8
 8000



The (-) indicates a parameter factory setting.
 The (-*) indicates a parameter factory setting determined by drive rating and dual rating.

(4) When 309 Motor control type is set to 05 Synchronous motor control, parameter 605 is forced to 00.