



EAV9613603

# ATV310 complete parameters list

ENGLISH

	<b>Reference mode</b>	
	402 External reference value	
	403 Analog input virtual	
	801 Speed reference	
	59,11 Internal PID reference	
	806 PID reference value	
	<b>Monitoring mode</b>	
	402 External reference value	
	403 Analog input virtual	
	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-adated 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	
	<b>900- MAINTENANCE MENU</b>	
	901 State of logic inputs L1 to L4	
	902 State of the logic output LO1 and relay R1	
	903 Display of high speed value	
	<b>Drive Power rating</b>	
	037	
	075	
	U15	
	U22	
	U30	
	U40	
	U55	
	U75	
	D11	
	<b>905 Drive voltage rating</b>	
	N4	
	<b>906 Specific Product Number</b>	
	Card 1 Software Version	
	Card 2 Software Version	
	908 Run elapsed time display	
	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	
	<b>F000 Fault menu</b>	
	F001 Precharge	
	F002 Unknown drive rating	
	F003 Unknown or incompatible power board	
	F004 Internal serial link	
	F005 Invalid industrialization zone	
<b>Maintenance menu</b>	<b>I/O menu</b>	
	<b>200- I/O MENU</b>	
	<b>201 Type of control</b>	
	[00]* 2-wire control	
	[01] 3-wire control	
	<b>202 2-wire type control</b>	
	[00]* level	
	[01]* transition	
	[02] Forward priority	
<b>Monitoring parameter</b>	<b>I/O menu</b>	
	<b>203 Logic inputs type</b>	
	[00]* positive	
	[01] negative	
	<b>204- AI1 CONFIGURATION MENU</b>	
	<b>204.0 AI1 type</b>	
	[5U]* 0-5V	
	[10U] 0-10V	
	[0A] x-y mA	
	[LIU] Logic inputs	
	<b>204.1 AI1 current scaling parameter of 0%</b>	
	0-20mA (4mA*)	
	<b>204.2 AI1 current scaling parameter of 100%</b>	
	0-20mA (20mA*)	
	<b>204.3 AI1F filter</b>	
	0 s to 10 s (0 s*)	
	<b>205 R1 assignment</b>	
	[00] Not assigned	
	[01]* No error detected	
	[02] Drive run	
	[04] Frequency threshold reached	
	[05] HSP reached	
	[06] I threshold reached	
	[07] Frequency reference reached	
	[08] Motor thermal reached	
	[21] Underload alarm	
	[22] Overload alarm	
	[123] Loss of 4-20mA signal	
	<b>206- LO1 CONFIGURATION MENU</b>	
	<b>206.0 LO1 Assignment</b>	
	[00] Not assigned	
	[01] No error detected	
	[02] Drive run	
	[04] Frequency threshold reached	
	[05] HSP reached	
	[06] I threshold reached	
	[07] Frequency reference reached	
	[08] Motor thermal reached	
	[21] Underload alarm	
	[22] Overload alarm	
	[123] AI1 alarm 4-20mA	
	[126] Auxiliary pump active	
	<b>206.1 LO1 status (output active level)</b>	
	[00]* Positive : high activation level	
	[01] Negative : low activation level	
	<b>207 Application Overload time delay</b>	
	0 to 100 s (0 s*)	
	<b>208 Application Overload threshold</b>	
	70 to 150% of nominal motor current (90%)	
	<b>209 Overload fault duration</b>	
	0 to 6 min (0 min*)	
	<b>210 Application underload time delay</b>	
	0 to 100 s (0 s*)	
	<b>211 Application Underload threshold</b>	
	20 to 100% of nominal motor current (60%)	
	<b>212 Underload fault duration</b>	
	0 to 6min (0min*)	
	<b>213 Motor frequency threshold</b>	
	0 to 400Hz (50Hz* or 60Hz)	
	<b>214 Motor current threshold</b>	
	0 to 1.5In (In*)	
	<b>215 Motor thermal state threshold</b>	
	0 to 118% (100%)	
	<b>216.0 AO1 assignment</b>	
	[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	
<b>Drive status</b>	<b>I/O menu</b>	
	<b>216.1 AO1 type</b>	
	[10U] Voltage: 0-10 Vdc	
	[0A]* Current: 0-20 mA	
	[4A] Current: 4-20 mA	
	<b>217 Speed Template</b>	
	[00]* Standard	
	[02] DeadBand	
	<b>300- MOTOR CONTROL MENU</b>	
	<b>301 Standard motor frequency</b>	
	[00]* 50Hz	
	[01] 60Hz	
	<b>302 Rated motor power</b>	
	Drive power (-5 to +2) depending on drive rating	
	<b>303 Rated motor cos phi</b>	
	0.5 to 1 (depending on drive rating)	
	<b>304 Rated motor voltage</b>	
	360 to 460V (380V*)	
	<b>305 Rated motor current</b>	
	0.25 to 1.5In (depending on drive rating)	
	<b>306 Rated motor frequency</b>	
	10 to 400Hz (50Hz*)	
	<b>307 Rated motor speed</b>	
	0 to 2400rPM (depending on drive rating)	
	<b>308 Maximum frequency</b>	
	10 to 400Hz (60Hz*)	
	<b>309 Motor control type</b>	
	[00] Performance: Vector control	
	[03]* Standard: U/F 2 points	
	[06] Pump: U/F	
	<b>310 IR compensation</b>	
	25 to 200% (100%)	
	<b>311 Slip compensation</b>	
	0 to 150% (100%)	
	<b>312 Frequency loop stability</b>	
	0 to 100% (20%)	
	<b>313 Frequency loop gain</b>	
	0 to 100% (20%)	
	<b>314 Flux Profil</b>	
	0 to 100% (20%)	
	<b>315 Switching frequency</b>	
	2 to 12kHz (4kHz*)	
	<b>317 Motor noise reduction</b>	
	[00]* No	
	[01] Yes	
	<b>318 Auto-tuning</b>	
	[00]* No: When factory parameters of standard motors	
	[01] Yes: Launches auto-tuning	
	[02] Done: If auto-tuning has already been performed	
	<b>319 Motor parameter choice</b>	
	[00]* Nominal motor power	
	[01] Nominal motor cos phi	
	<b>320 Vector control 2 points</b>	
	[00]* No	
	[01] Yes	
	<b>321 Max voltage of constant power</b>	
	360 to 460V (380V*)	
	<b>322 Max frequency of constant power</b>	
	50 to 200Hz (50Hz*)	
	<b>400- CONTROL MENU</b>	
	<b>401 Reference channel 1</b>	
	[01] Terminal	
	[163] Remote display	
	<b>402 External reference value</b>	
	-400 to 400Hz	
	<b>403 Analog input virtual</b>	
	0 to 100%	
	<b>404 Reverse inhibition</b>	
	[00]* No	
	[01] Yes	
	<b>405 Stop key priority</b>	
	[00] No: Stop inactive	
	[01]* Yes: Stop active	
<b>Control menu (cont.)</b>	<b>Control menu</b>	
	<b>406 Channel configuration</b>	
	[01]* Not separate mode	
	[02] Separate mode	
	<b>407 Command channel 1</b>	
	[01]* Terminals	
	[02] Local	
	[03] Remote display	
	[10] Modbus	
	<b>408 Forced local assignment</b>	
	[00]* No: Function inactive	
	[L1H] L1 active High	
	[L2H] L2 active High	
	[L3H] L3 active High	
	[L4H] L4 active High	
	[LUH] LIU active High	
	<b>409 Forced PID reference</b>	
	[00]* Not assigned	
	[01] Terminal	
	[163] Remote display	
	[183] Integrated jog dial	
	<b>500- FUNCTION MENU</b>	
	<b>501 RAMP MENU</b>	
	<b>501.0 Acceleration</b>	
	0.0 to 999.9s (3.0s*)	
	<b>501.1 Deceleration</b>	
	0.0 to 999.9s (3.0s*)	
	<b>501.2 Ramp shape assignment</b>	
	[00]* Linear	
	[01] S shape	
	[02] U shape	
	<b>501.3 Ramp switching commutation</b>	
	[00]* Not assigned	
	[L1H] L1 active High	
	[L2H] L2 active High	
	[L3H] L3 active High	
	[L4H] L4 active High	
	[LUH] LIU active High	
	<b>501.4 Acceleration 2</b>	
	0.0 to 999.9s (5.0s*)	
	<b>501.5 Deceleration 2</b>	
	0.0 to 999.9s (5.0s*)	
	<b>501.6 Decel Ramp Adaptation assignment</b>	
	[00] Function deactivated	
	[01]* Function activated	
	[02] Motor brake	
	<b>502- STOP CONFIGURATION MENU</b>	
	<b>502.0 Type of stop</b>	
	[00]* Ramp stop	
	[01] Fast stop	
	[02] Free wheel stop	
	<b>502.1 Freewheel stop assignment</b>	
	[00]* Not assigned	
	[L1L] L1 active Low to stop	
	[L2L] L2 active Low to stop	
	[L3L] L3 active Low to stop	
	[L4L] L4 active Low to stop	
	[LUL] LIU active Low to stop	
	<b>502.2 Fast stop assignment</b>	
	[00]* Not assigned	
	[L1L] L1 active Low to stop	
	[L2L] L2 active Low to stop	
	[L3L] L3 active Low to stop	
	[L4L] L4 active Low to stop	
	[LUL] LIU active Low to stop	
	<b>502.3 Ramp divider</b>	
	1 to 10 (4*)	
	<b>503 Reverse direction</b>	
	[00]* Not assigned	
	[L1H] L1 active High	
	[L2H] L2 active High	
	[L3H] L3 active High	
	[L4H] L4 active High	
	[LUH] LIU active High	

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