

Easy Altivar ATV310 complete parameters list

Jump frequency	508	Skip frequency 0 to 400Hz (0Hz*)	DC injection function	504.0	Automatic DC injection (00) Function inactive, no DC injected current. (01)* Time limited DC injection (02) Continuous DC injection
				504.1	Automatic DC injection current 0 to 120% of nominal motor current (70%*)
Maintenance menu	507	PRESET SPEED MENU	Jog function	504.2	Automatic DC injection time 0.1 to 30s (0.5s*)
				505	Jog assignment (00)* Not assigned (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High
Maintenance menu	506	Speed up and down	Motor potentiometer function	506.0	Up speed command (00)* Not assigned (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High
				506.1	Down speed command (00)* Not assigned (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High
Maintenance menu	507	2 Preset speeds	Motor thermal protection	506.2	Store (00)* No (01) RAM (02) ROM
				506.3	Clear the function (00)* Not assigned (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High (159) Acceleration and deceleration with command active high
Maintenance menu	507	4 Preset speeds	Speed limitation function (cont.)	506.4	Reactivity of +/- speed around ref. 0 to 100% (0%*)
				507.0	2 Preset speeds (00)* Not assigned (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High
Maintenance menu	507	8 Preset speeds	Fan	507.1	4 Preset speeds same as 2 Preset speeds
				507.2	8 Preset speeds same as 2 Preset speeds
Maintenance menu	507	Preset speed 2	Detected fault reset	507.3	Preset speed 2 0 to 400Hz (10Hz*)
				507.4	Preset speed 3 0 to 400Hz (15Hz*)
Maintenance menu	507	Preset speed 3	Automatic restart after a detected fault	507.5	Preset speed 4 0 to 400Hz (20Hz*)
				507.6	Preset speed 5 0 to 400Hz (25Hz*)
Maintenance menu	507	Preset speed 4	Catch on the fly	507.7	Preset speed 6 0 to 400Hz (30Hz*)
				507.8	Preset speed 7 0 to 400Hz (35Hz*)
Maintenance menu	507	Preset speed 5	Motor thermal protection	507.9	Preset speed 8 0 to 400Hz (40Hz*)
				508	Skip frequency 0 to 400Hz (0Hz*)

PID Control function	59	PID MENU	PID / Pump management function	59.00	PID feedback assignment (00)* Not assigned (01) Terminal
				59.01	PID proportional gain 0.01 to 100 (1*)
PID Control function	59	2 preset PID assignment	PID / Pump management function	59.02	PID integral gain 0.01 to 100 (1*)
				59.03	PID derivative gain 0.00 to 100.0 (0*)
PID Control function	59	3 preset PID reference	Speed limitation function	59.04	PID feedback scale factor 0.1 to 100.0 (1.0*)
				59.05	Activation internal PID reference (00)* No (01) Yes
PID Control function	59	4 preset PID assignment	Motor thermal protection	59.06	2 preset PID assignment (00)* Not assigned (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High
				59.07	4 preset PID assignment (00)* Not assigned (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High
PID Control function	59	2 preset PID reference	Phase loss	59.08	2 preset PID reference 0 to 100% (25%*)
				59.09	3 preset PID reference 0 to 100% (50%*)
PID Control function	59	3 preset PID reference	Undervoltage	59.10	4 preset PID reference 0 to 100% (75%*)
				59.11	Internal PID reference 0 to 100% (0%*)
PID Control function	59	PID reference ramp	IGBT	59.12	PID reference ramp 0 to 100% (0%*)
				59.13	PID min value reference 0 to 100% (0%*)
PID Control function	59	PID max value reference	4-20 mA loss	59.14	PID max value reference 0 to 100% (100%*)
				59.15	PID predictive speed 0.1 to 400Hz (0.0*)
PID Control function	59	Acceleration 2	Motor thermal protection	59.16	Acceleration 2 0.0 to 999.9s (5s*)
				59.17	PID auto/manual assignment (00)* Not assigned (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High
PID Control function	59	PID correction reverse	Speed limitation function	59.18	PID manual reference (00)* No (01) Yes (183) Integrated jog dial
				59.19	PID: wake up level 0 to 100% (0%*)
PID Control function	59	Low speed operating time	Motor thermal protection	59.20	PID: Wake up threshold 0 to 100% (0%*)
				59.21	Sleep offset threshold 0 to High speed (0Hz*)
PID Control function	59	PID feedback supervision threshold	Phase loss	59.22	PID feedback supervision threshold 0 to 100% (0%*)
				59.23	PID supervision function time delay 0 to 300s (0s*)

Speed limitation function	59	Maximum frequency detection Hysteresis 0 to 50Hz (0Hz*)	Motor thermal protection	59.24	Maximum frequency detection Hysteresis 0 to 50Hz (0Hz*)
				59.25	PID feedback supervision (00)* Not assigned (01) Free wheel (04) Fallback speed
Speed limitation function	59	Fallback speed	Motor thermal protection	59.26	Fallback speed 0 to High speed (0Hz*)
				59.27	High speed 2 Low speed to Max frequency (50 or 60Hz*)
Speed limitation function	59	PUMP SUB-MENU	Phase loss	59.28	High speed 3 Low speed to Max frequency (50 or 60Hz*)
				59.29	High speed 4 Low speed to Max frequency (50 or 60Hz*)
Speed limitation function	59	Overload time delay	IGBT	59.30	Overload threshold 70 to 150% of nominal motor current (90%*)
				59.31	Overload fault duration 0 to 6 min (0 min*)
Speed limitation function	59	Underload time delay	Motor thermal protection	59.32	Underload time delay 0 to 100 s (0 s*)
				59.33	Underload threshold 20 to 120% of nominal motor current (60%*)
Speed limitation function	59	Underload fault duration	Speed limitation function (cont.)	59.34	Underload fault duration 0 to 6min (0min*)
				59.35	Selecting operating mode (00)* Single frequency conversion mode (01) Single frequency conversion combined with auxiliary pump mode
Speed limitation function	59	Starting frequency of the auxiliary pump 0 to 60Hz (50Hz*)	Automatic restart after a detected fault	59.36	Starting frequency of the auxiliary pump 0 to 60Hz (50Hz*)
				59.37	Time delay before starting auxiliary pump 0 to 999.9s (2s*)
Speed limitation function	59	Auxiliary pump ramp reaching 0 to 999.9s (2s*)	Motor thermal protection	59.38	Auxiliary pump ramp reaching 0 to 999.9s (2s*)
				59.39	Auxiliary pump stop frequency 0 to 60Hz (0Hz*)
Speed limitation function	59	Auxiliary pump stop time delay 0 to 999.9s (2s*)	Phase loss	59.40	Auxiliary pump stop time delay 0 to 999.9s (2s*)
				59.41	Auxiliary pump stop ramp 0 to 999.9s (2s*)
Speed limitation function	59	Zero flow detection period 0 to 20min (0min*)	Motor thermal protection	59.42	Zero flow detection period 0 to 20min (0min*)
				59.43	Zero flow detection activation threshold 0 to 400Hz (0Hz*)
Speed limitation function	59	Zero flow detection offset 0 to 400Hz (0Hz*)	Motor thermal protection	59.44	Zero flow detection offset 0 to 400Hz (0Hz*)
				59.45	Current LIMITATION MENU
Speed limitation function	59	2nd current limitation commutation (00)* Not activated (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High	Motor thermal protection	59.46	2nd current limitation commutation (00)* Not activated (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High
				59.47	Current limitation 0.25 to 1.5In (1.5In*)
Speed limitation function	59	Current limitation 2 0.25 to 1.5In (1.5In*)	Phase loss	59.48	Current limitation 2 0.25 to 1.5In (1.5In*)
				59.49	SPEED LIMIT MENU
Speed limitation function	59	Low speed	Undervoltage	59.50	Low speed 0Hz to high speed (0Hz*)
				59.51	Low speed operating time 0.1 to 999.9s (0s*)
Speed limitation function	59	High speed	IGBT	59.52	High speed Low speed to maximum frequency (50 or 60Hz according to standard motor frequency*)
				59.53	2 High speed assignment (00)* Not assigned (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High

4-20 mA loss	609	4-20mA loss Behaviour (00)* Detected fault ignored (01) Freewheel stop	Modbus / per. fault inhibit.	610	Detected fault inhibition assignment (00)* Function inactive (L1H) L1 active High (L2H) L2 active High (L3H) L3 active High (L4H) L4 active High (LUH) LIU active High
				611	Modbus detected fault management (00)* Detected fault ignored (01) Freewheel stop
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	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
4-20 mA loss	608	4-20mA loss Behaviour (00)* Detected fault ignored (01) Freewheel stop	Modbus / per. fault inhibit.	614	Reset all previous detected faults via Run key of HMI (00)* Deactivated (01) Active
				700	COMMUNICATION MENU
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	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
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	703	Modbus format (02) 8o1 (03)* 8E1 (04) 8n1 (05) 8n2
				704	Modbus time out 0.1 to 30s (10s*)
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	705	INPUT SCANNER MENU
				705.0	Com scanner read address parameter 1 0C81*
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	705.1	Com scanner read address parameter 2 219C*
				705.2	Com scanner read address parameter 3 0000
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	705.3	Com scanner read address parameter 4 0000
				706	OUTPUT SCANNER MENU
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	706.0	Com scanner write address parameter 1 2135*
				706.1	Com scanner write address parameter 2 219A*
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	706.2	Com scanner write address parameter 3 0000
				706.3	Com scanner write address parameter 4 0000
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	707	INPUT SCANNER ACCESS MENU
				707.0	Com scanner read address value 1 0C81*
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	707.1	Com scanner read address value 2 219C*
				707.2	Com scanner read address value 3 0000
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	707.3	Com scanner read address value 4 0000
				708	OUTPUT SCANNER ACCESS MENU
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	708.0	Com scanner write address value 1 CMD value*
				708.1	Com scanner write address value 2 LFRD value*
4-20 mA loss	608	IGBT test (00)* No test (01) Starting test	Modbus / per. fault inhibit.	708.2	Com scanner write address value 3 8000
				708.3	Com scanner write address value 4 8000

The (*) indicates a parameter factory setting.