



ENGLISH

The (*) indicates a parameter factory setting.

Easy Altivar ATV310L complete parameter list

Function menu	Function / Ramp menu	Function / Stop configuration menu	DC injection function	Motor potentiometer function	Brake logic function	Current limitation function	Speed limitation function	Phase loss	IGBT	Detect. fault	Degr. line	Reset power run	Brake logic function	Automatic restart after a detected fault	Motor thermal Monitoring	Undervoltage	Communication menu	Communication menu
500-503 Reverse assignment [00]* Not assigned [L1H] to [L4H] L1 to L14 active High 505 Jog assignment [00]* Not assigned [L1H] to [L4H] L1 to L14 active High 508 Skip frequency 0 to 400Hz (0Hz*) 514 Application Parameter Group Selection [00] General [01]* Conveyor (brake control, V/F control) [02] Conveyor (no brake control, vector control) [03] Turnover [04] Gate [05] Tray (no brake control, V/F control) [06] Tray (brake control, vector control)	501- RAMP MENU 501.0 Acceleration ramp time 0.0 to 999.9s (0.5s*) 501.1 Deceleration ramp time 0.0 to 999.9s (0.5s*) 501.2 Type of ramp [00]* Linear [01] S shape [02] U shape 501.3 Ramp switching assignment [00]* Not assigned [L1H] to [L4H] L1 to L14 active High [L1L] to [L4L] L1 to L14 active Low 501.4 Acceleration 2 ramp time 0.0 to 999.9s (5.0s*) 501.5 Deceleration 2 ramp time 0.0 to 999.9s (5.0s*) 501.6 Deceleration ramp adaptation [00] Function deactivated [01]* Function activated [02] Motor brake	502- STOP CONFIGURATION MENU 502.0 Type of stop [00]* Ramp stop [08] Fast stop [13] Free wheel stop 502.1 Freewheel stop assignment [00]* Not assigned [L1L] to [L4L] L1 to L14 active Low to stop 502.2 Fast stop assignment [00]* Not assigned [L1L] to [L4L] L1 to L14 active Low to stop 502.3 Fast stop Ramp divider 1 to 10 (4*)	504- AUTO DC INJECTION MENU 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 (0.3 A) 504.2 Automatic DC injection time 0.1 to 30s (0.5s*)	506- Speed up and down 506.0 Up speed command [00]* Not assigned [L1H] to [L4H] L1 to L14 active High 506.1 Down speed command Same as Up speed command 506.2 Store [00]* No [01] RAM [02] ROM	506.3 Clear the function [00]* Not assigned [L1H] to [L4H] L1 to L14 active High [159] Acceleration and deceleration with command active high 506.4 Reactivity of +/- speed around ref. 0 to 100% (0%*)	507- PRESET SPEED MENU 507.0 2 Preset speeds [00]* Not assigned [L1H] to [L4H] L1 to L14 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 400Hz (10Hz*) 507.4 Preset speed 3 0 to 400Hz (15Hz*) 507.5 Preset speed 4 0 to 400Hz (20Hz*) 507.6 Preset speed 5 0 to 400Hz (25Hz*) 507.7 Preset speed 6 0 to 400Hz (30Hz*) 507.8 Preset speed 7 0 to 400Hz (35Hz*) 507.9 Preset speed 8 0 to 400Hz (40Hz*)	511- CURRENT LIMITATION MENU 511.0 Current Limitation 2 assignment [00]* Not activated [L1H] to [L4H] L1 to L14 active High [L1L] to [L4L] L1 to L14 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 0Hz to high speed (0Hz*) 512.1 Low speed operating time 0.1 to 999.9s (0s*) 512.2 High speed Low speed to maximum frequency (50 or 60Hz according to standard motor frequency*) 512.3 2 High speed assignment [00]* Not assigned [L1H] to [L4H] L1 to L14 active High 512.4 4 High speed assignment [00]* Not assigned [L1H] to [L4H] L1 to L14 active High [512.5] High speed 2 Low speed to Max frequency (50 or 60Hz*) 512.6 High speed 3 Low speed to Max frequency (50 or 60Hz*) 512.7 High speed 4 Low speed to Max frequency (50 or 60Hz*)	52- BRAKE LOGIC CONTROL 52.00 Brake logic function activation [00]* Inactive function [01] Active function 52.01 Movement Type [00]* Horizontal [01] Vertical 52.02 Brake contact assignment [00]* Not assigned [L1H] to [L4H] L1 to L14 active High 52.03 Brake release pulse [00]* No [01] Yes [02] 2 brake release current	52.04 Brake release current 0 to 1.36 In (0 A*) 52.05 Reverse Brake release current 0 to 1.36 In (0 A*) 52.06 Brake release time 0* to 5.00 s 52.07 Brake release frequency threshold [AUTO]* auto 0 to 10.0Hz 52.08 Brake engage frequency threshold [AUTO]* auto 0 to 25.0Hz 52.09 Brake engage delay 0* to 5.00 s 52.10 Brake engage time 0* to 5.00 s 504.1 Automatic DC injection current 0 to 1.2 In (0.3 A) 52.11 Brake Engage at reversal [00]* No [01] Yes 52.12 Jump at reversal [AUTO]* Auto 0 to 10.0Hz 52.13 Time to restart 0* to 15.00 s 52.14 Brake Hidden 0* to 7 52.15 Current ramp time 0* to 5.00 s 52.16 Unloader switch section function activation [00]* Function inactive [01] Function active	600- ERROR DETECTION MANAGEMENT MENU 601 Detected fault reset assignment [00]* Not assigned [L1H] to [L4H] L1 to L14 active High 603 Catch on the fly [00]* Function inactive [01] Function active 605 Output Phase loss [00] Deactivated [01]* Tripping then freewheel stop 606 Input Phase loss [00] Detected error ignored [01]* Detected error with freewheel stop 608 IGBT test [00]* No test [01] Starting test 610 Disable error detection assignment [00]* Function inactive [L1H] to [L4H] L1 to L14 active High 611 Response to AS-i interruption [00]* Detected fault ignored [01] Freewheel stop 612 Degraded mains supply operation [00]* No [01] Yes 613 Time counter reset [00]* No [07] Reset fan operation time 614 Reset all previous detected error via Run key of HMI [00]* Deactivated [01] Active	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	604- MOTOR THERMAL MONITORING MENU 615 Motor over temperature behavior configuration (1) [00] Detected error ignored [01]* Detected error with freewheel stop 604.0 Motor thermal current 0.2-1.5In (In*) 604.1 Motor thermal mode [01]* Self-ventilated [02] Motor-ventilated 604.2 Response to motor overtemp [00] Detected error ignored [01]* Free wheel stop 604.3 Motor thermal state memo [00]* thermal state not stored at power off [01] thermal state is stored at power off	607- UNDERVOLTAGE MENU 607.1 Stop type on power loss [00]* No action (freewheel) [02] Stop following an adjustable ramp 607.2 Undervoltage ramp deceleration time 0.0 to 10.0s (1.0s*) 607.3 Precharge resistor protection level 430 to 560 VDC (0 V* with protection removed)	700- COMMUNICATION MENU 711 AS-i mode [SnGL]* Single Mode [DUAL] Dual Mode [DLSS] Dual mode single slave [CTT2] CTT2 mode 712 AS-i Address 1 0* to 63 713 AS-i Address 2 0* to 63 714 AS-i Input/Output activation 16 bit word (0305*) 715 User Select [00]* Standard user [01] Customized user	79- AS-i preset speed menu 79.00 AS-i preset speed 1 -400.0 to +400.0 Hz (50 Hz*) 79.01 AS-i preset speed 2 -400.0 to +400.0 Hz (30 Hz*) 79.02 AS-i preset speed 3 -400.0 to +400.0 Hz (10 Hz*) 79.03 AS-i preset speed 4 -400.0 to +400.0 Hz (15 Hz*) 79.04 AS-i preset speed 5 -400.0 to +400.0 Hz (20 Hz*) 79.05 AS-i preset speed 6 -400.0 to +400.0 Hz (25 Hz*) 79.06 AS-i preset speed 7 -400.0 to +400.0 Hz (30 Hz*) 79.07 AS-i preset speed 8 -400.0 to +400.0 Hz (35 Hz*) 79.08 AS-i preset speed 9 -400.0 to +400.0 Hz (40 Hz*) 79.09 AS-i preset speed 10 -400.0 to +400.0 Hz (45 Hz*) 79.10 AS-i preset speed 11 -400.0 to +400.0 Hz (50 Hz*) 79.11 AS-i preset speed 12 -400.0 to +400.0 Hz (55 Hz*) 79.12 AS-i preset speed 13 -400.0 to +400.0 Hz (60 Hz*) 79.13 AS-i preset speed 14 -400.0 to +400.0 Hz (65 Hz*)		

Troubleshooting

ATV310LU22N4T220

5365992518218004 2.2kW-380/460V~

Scan the QR code in front of the drive to get the error codes explanations in the *Diagnostics* section.

The (*) indicates a parameter factory setting.

(1) PTC detection function is not supported for the drive ATV310L referenced ATV310L●●●4T, therefore F041 error will not appear.



简体中文

(*) 表示参数的出厂设置。

Easy Altivar ATV310L 完整参数列表

功能反向	500- 功能菜单
	503 反转分配 [00]* 未分配 [L1H - L4H] L11 - L14 高电平有效
功能菜单	505 寸动分配 [00]* 未分配 [L1H - L4H] L11 - L14 高电平有效
	508 跳转频率 0 至 400Hz (0Hz*)
功能菜单	514 应用参数组选择 [00] 普通应用 [01]* 输送线 (非抱闸电机, V/F 控制) [02] 输送线 (抱闸电机, 矢量控制) [03] 翻转机 [04] 升降门 [05] 托盘线 (非抱闸电机, V/F 控制) [06] 托盘线 (抱闸电机, 矢量控制)
	501- 斜坡菜单
功能 / 斜坡菜单	501.0 加速斜坡时间 0.0 至 999.9s (0.5s*)
	501.1 减速斜坡时间 0.0 至 999.9s (0.5s*)
功能 / 斜坡菜单	501.2 斜坡类型 [00]* 线性 [01] S 型 [02] U 型
	501.3 斜坡切换分配 [00]* 未分配 [L1H - L4H] L11 - L14 高电平有效 [L1L - L4L] L11 - L14 低电平有效
功能 / 斜坡菜单	501.4 第 2 加速斜坡时间 0.0 至 999.9s (0.5s*)
	501.5 第 2 减速斜坡时间 0.0 至 999.9s (0.5s*)
功能 / 斜坡菜单	501.6 减速时间自适应 [00] 功能未激活 [01]* 功能激活 [02] 电机制动
	502- 停车设置菜单
功能 / 停车设置菜单	502.0 停车类型 [00]* 斜坡停车 [08] 快速停车 [13] 自由停车
	502.1 自由停车分配 [00]* 未分配 [L1L - L4L] L11 - L14 低电平有效
功能 / 停车设置菜单	502.2 快速停车分配 [00]* 未分配 [L1L - L4L] L11 - L14 低电平有效
	502.3 快速停车斜坡除数 1 至 10 (4*)
直流注入功能	504- 自动直流注入菜单
	504.0 自动直流注入 [00] 功能未激活, 无直流注入电流。 [01]* 有限直流注入 [02] 连续直流注入
直流注入功能	504.1 自动直流注入电流 电机额定电流的 0% 至 120% (0.3 A*)
	504.2 自动直流注入时间 0.1 至 30s (0.5s*)
电动电位器功能	506- 给定位置加减速
	506.0 加速指令 [00]* 未分配 [L1H - L4H] L11 - L14 高电平有效
电动电位器功能	506.1 减速指令 与加速指令相同

电动电位器功能	506.2	保存变量 [00]* No [01]* RAM [02]* ROM
	506.3	功能清除分配 [00]* 未分配 [L1H - L4H] L11 - L14 高电平有效 [159] 加减速指令同时高电平
	506.4	增量赋值 0 至 100% (0%*)
预设速度菜单	507-	预置速度菜单
	507.0	2 个预置速度 [00]* 未分配 [L1H - L4H] L11 - L14 高电平有效
	507.1	4 个预置速 与 2 个预置速度相同
	507.2	8 个预置速 与 2 个预置速度相同
	507.3	预置速度 2 0 至 400Hz (10Hz*)
	507.4	预置速度 3 0 至 400Hz (15Hz*)
	507.5	预置速度 4 0 至 400Hz (20Hz*)
	507.6	预置速度 5 0 至 400Hz (25Hz*)
	507.7	预置速度 6 0 至 400Hz (30Hz*)
	507.8	预置速度 7 0 至 400Hz (35Hz*)
507.9	预置速度 8 0 至 400Hz (40Hz*)	
电流限幅功能	511-	电流限幅菜单
	511.0	第 2 电流限幅分配 [00]* 未激活 [L1H - L4H] L11 - L14 高电平有效 [L1L - L4L] L11 - L14 低电平有效
	511.1	电流限幅 0.25 至 1.5In
	511.2	电流限幅 2 0.25 至 1.5In
速度限幅功能	512-	速度限幅菜单
	512.0	低速 0Hz 至高速频率 (0Hz*)
	512.1	低速运行时间 0.1 至 999.9s (0s*)
	512.2	高速频率 低速频率至最大频率 (50 或 60Hz, 取决于标准电机频率*)
	512.3	2 个高速频率分配 [00]* 未分配 [L1H - L4H] L11 - L14 高电平有效
	512.4	4 个高速频率分配 [00]* 未分配 [L1H - L4H] L11 - L14 高电平有效
	512.5	高速频率 2 低速频率至最大频率 (50 或 60Hz*)
	512.6	高速频率 3 低速频率至最大频率 (50 或 60Hz*)
512.7	高速频率 4 低速频率至最大频率 (50 或 60Hz*)	
速度限幅功能	52-	制动逻辑控制
	52.00	制动逻辑功能激活 [00]* 功能未激活 [01]* 功能激活
	52.01	移动类型 [00]* 水平 [01]* 垂直

速度限制功能	52.02	制动触点分配	[00]* 未分配 [L1H - L4H] L11 - L14 高电平有效	
	52.03	制动力方向	[00]* 否 [01] 是 [02] 2 制动释放电流	
	52.04	制动释放电流	0 至 1.36 In (0 A*)	
	52.05	反向制动释放电流	0 至 1.36 In (0 A*)	
	52.06	制动释放时间	0* 至 5.00 s	
	52.07	制动释放频率阈值	[AUTO]* 自动 0 到 25.0Hz	
	52.08	刹车抱紧频率阈值	[AUTO]* 自动 0 到 25.0Hz	
	52.09	刹车抱紧时间	0* 至 5.00 s	
	52.10	刹车机构抱紧时间	0* 至 5.00 s	
	504.1	自动直流注入电流	0 至 1.2 In (0.3 A*)	
	52.11	速度反转时抱闸	[00]* 否 [01] 是	
	52.12	变转向频率跳变值	[AUTO]* 自动 0 到 10.0Hz	
	52.13	重启等待时间	0* 至 15.00 s	
	52.14	制动隐藏	0* 至 7	
	52.15	电流斜坡时间	0* 至 5.00 s	
	52.16	翻转台类应用制动逻辑激活	[00]* 功能未激活 [01] 功能激活	
飞车重启动	600-	错误检测管理菜单		
	601	故障复位分配	[00]* 未分配 [L1H - L4H] L11 - L14 高电平有效	
	603	飞车重启动	[00]* 功能未激活 [01] 功能激活	
	605	输出缺相	[00]* 功能未激活 [01]* 跳闸并自由停车	
	606	输入缺相	[00] 忽略检测到的错误 [01]* 发生输入缺相时自由停车	
	608	IGBT 测试	[00]* 无测试 [01]* 测试	
	610	禁用错误检测分配	[00]* 功能未激活 [L1H - L4H] L11 - L14 高电平有效	
	611	AS-i 中断后的响应	[00] 忽略该故障 [01] 自由停车	
	612	电源降级运行	[00]* 否 [01] 是	
	613	时间计数器复位	[00]* 否 [07] 风扇运行时间	
	614	通过 HMI 的“运行”键复位所有以前检测到的错误	[00]* 不激活 [01] 激活	
	通电运行时间复位			

速度限制功能	602- 自动重启动菜单	
	602.0 自动重启动	
	[00]* 否	
	[01]* 是	
	602.1 最大自动重启动时间	
	[00]* 5 分钟	
	[01]* 10 分钟	
	[02]* 30 分钟	
	[03]* 1 小时	
	[04]* 2 小时	
[05]* 3 小时		
[06]* 无限制		
电机热监控	604- 电机热监控菜单	
	615 电机过热错误行为分配 (1)	
	[00]* 忽略检测到的错误	
	[01]* 自由停车	
	604.0 电机热电流	
	0.2-1.5In (In*)	
	604.1 电机热保护类型	
	[01]* 自通风	
	[02]* 强制通风	
	604.2 电机过热响应	
[00]* 忽略该故障		
[01]* 自由停车		
604.3 电机热状态记忆		
[00]* 断电时不存储电机热状态		
[01]* 断电时存储电机热状态		
欠压	607- 欠压菜单	
	607.1 断电时的受控停车	
	[00]* 无动作 (自由停车)	
	[02]* 以可调节斜坡欠压斜坡减速时间停车	
607.2 欠压斜坡减速时间		
0.0 至 10.0s (1.0s*)		
607.3 预充电电阻保护电压		
430 至 560 VDC (0 V*, 取消保护)		
通信菜单	700- 通信菜单	
	711 AS-i 模式	
	[SnGL]* 单模式	
	[DUAL]* 双模式	
	[DLSS]* 双模式单从站	
	[CTT2]* CTT2 模式	
	712 AS-i 地址 1	
	0* 至 63	
	713 AS-i 地址 2	
	0* 至 63	
714 AS-i 输入 / 输出激活		
16 位字 (0305*)		
715 用户选择		
[00]* 标准用户		
[01]* 定制用户		

故障诊断



ATV310LU22N4T220

5365992518218004 2.2kW-380V

扫描变频器正面的二维码，
即可在诊断时查找相应故障代码的解释说明信息。

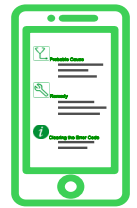
速度限制功能	79- AS-i 预设速度菜单	
	79.00 AS-i 预设速度 1	-400.0 至 +400.0 Hz (50 Hz*)
	79.01 AS-i 预设速度 2	-400.0 至 +400.0 Hz (30 Hz*)
	79.02 AS-i 预设速度 3	-400.0 至 +400.0 Hz (10 Hz*)
	79.03 AS-i 预设速度 4	-400.0 至 +400.0 Hz (15 Hz*)
	79.04 AS-i 预设速度 5	-400.0 至 +400.0 Hz (20 Hz*)
	79.05 AS-i 预设速度 6	-400.0 至 +400.0 Hz (25 Hz*)
	79.06 AS-i 预设速度 7	-400.0 至 +400.0 Hz (30 Hz*)
	79.07 AS-i 预设速度 8	-400.0 至 +400.0 Hz (35 Hz*)
	79.08 AS-i 预设速度 9	-400.0 至 +400.0 Hz (40 Hz*)
	79.09 AS-i 预设速度 10	-400.0 至 +400.0 Hz (45 Hz*)
	79.10 AS-i 预设速度 11	-400.0 至 +400.0 Hz (50 Hz*)
	79.11 AS-i 预设速度 12	-400.0 至 +400.0 Hz (55 Hz*)
	79.12 AS-i 预设速度 13	-400.0 至 +400.0 Hz (60 Hz*)
79.13 AS-i 预设速度 14	-400.0 至 +400.0 Hz (65 Hz*)	

故障诊断



ATV310LU22N4T220
5365992518218004 2.2kW-380/460V~

扫描变频器正面的二维码,
即可在诊断时查找相应故障
代码的解释说明信息。



(*) 表示参数的出厂设置。

(1) 订货号为 ATV310L...4T 的 ATV310L 机型不支持 PTC 检测功能, 因此不会报 F041 错误。