



ATV11H****

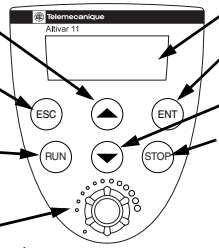
Note: Please refer to the ATV11 Installation Guide and the ATV11 Programming Manual for complete installation and programming instructions.



ATV11H****A

KEYPAD OPERATION

- Returns to the previous menu or parameter, or increases the displayed value
- Exits a menu or parameter, or aborts the displayed value to return to the previous value in the memory
- RUN button: controls motor switch-on in forward operation, if parameter tCC in the FUn menu is configured as LOC
- Reference potentiometer (ATV11****A only) active if parameter LSr in the FUn menu is configured as LOC
- 3 "7-segment" displays
- Enters a menu or a parameter, or saves the displayed parameter or value
- Goes to the next menu or parameter, or decreases the displayed value
- STOP button: always controls the stopping of the motor.
 - If tCC (FUn menu) is not configured as LOC, it is a freewheel stop.
 - If tCC (FUn menu) is configured as LOC, the stop is on a ramp, but if injection braking is in progress, a freewheel stop takes place.

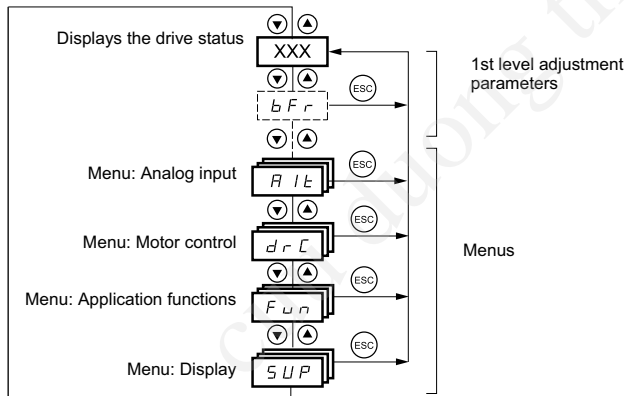


Pressing or does not store the selection.

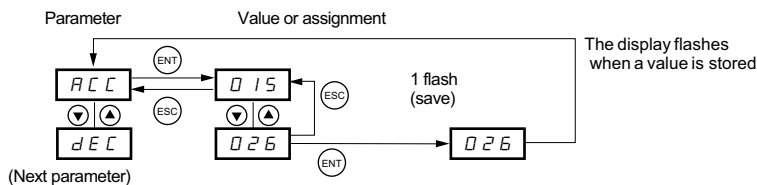
Save the selection :

Avoid switching on the drive several times in close succession, for example when using a line contactor. With cycles of less than 5 minutes the drive is likely to be damaged.

ACCESS TO MENUS



ACCESS TO PARAMETERS

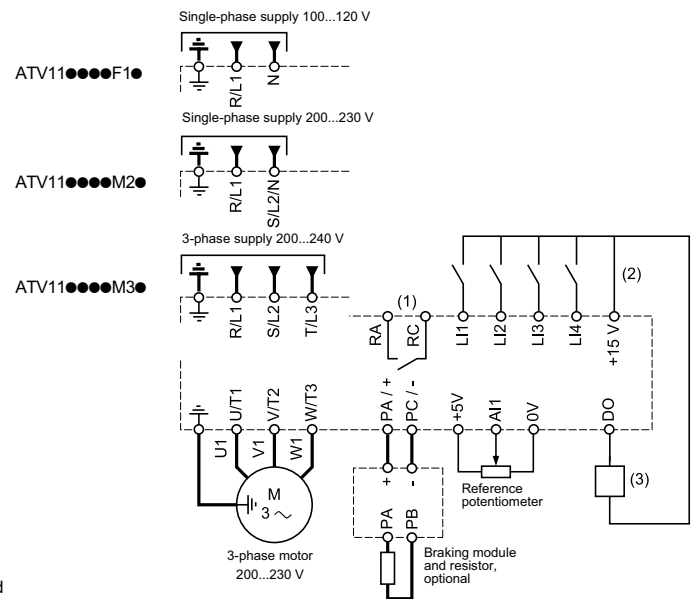


Normal display, with no fault present and no startup:

- rdY: Drive ready
- 43.0: Display of the parameter selected in the SUP menu (default selection: frequency reference).
- dcb: DC injection braking in progress
- nSt: Freewheel stop

If there is a fault, it is shown with a flashing display.

TYPICAL CONNECTIONS



- (1) Fault relay contacts, for remote indication of the drive status.
- (2) Internal + 15 V. If an external source is used (+ 24 V max.), connect the 0 V of the source to the 0 V terminal, and do not use the + 15 V terminal on the drive.
- (3) Galvanometer or low level relay.

Note: Fit interference suppressors to all inductive circuits near the drive or coupled to the same circuit (relays, contactors, solenoid valves, etc).

Choice of associated components:
See the Altivar 11 catalog.

Use of a braking resistor:

A VW3A11701 braking module must be connected between the drive and the braking resistor.

SEt - SETTINGS Menu

Parameter	Code	Factory Setting
Speed ref. from remote	-Hz LFr	
Internal PI regulator ref.	-Hz rPI	0 Hz
Acceleration ramp time	-s ACC	3 s
Acceleration ramp time 2	-s AC2	5 s
Deceleration ramp time 2	-s dE2	5 s
Deceleration ramp time	-s dEC	3 s
Start custom accel. ramp	-% tA1	10%
End custom accel. ramp	-% tA2	10%
Start custom decel. ramp	-% tA3	10%
End custom decel. ramp	-% tA4	10%
Low speed	-Hz LSP	0 Hz
High speed	-Hz HSP	bFr
Thermal current	-A tH	Varies w/rating
IR compensation	-% UFr	20%
Gain	-% FLG	20%
Stability	-% StA	20%
Slip comp.	-% SLP	100%
DC injection curr	-A IdC	0.7 In
DC injection time	-s tDC	0.5 s
Auto. DC injection time	-s tDC1	0.5 s
Auto. DC injection curr	-A SdC1	0.7 In
Auto. DC injection time 2	-s tDC2	0 s
Auto. DC injection curr 2	-A SdC2	0.5 In
Skip freq.	-Hz JPF	0 Hz
Skip freq. 2	-Hz JF2	0 Hz
Jog operating freq.	-Hz JGF	10 Hz
PI regulator prop. gain	rPG	1
PI regulator int. gain	-/s rIG	1/s
PID coeff	FbS	1
PID inversion	PiC	n0
2nd preset PI reference	-% rP2	30%
3rd preset PI reference	-% rP3	60%
4th preset PI reference	-% rP4	90%
Preset speed 2	-Hz SP2	10 Hz
Preset speed 3	-Hz SP3	15 Hz
Preset speed 4	-Hz SP4	20 Hz
Preset speed 5	-Hz SP5	25 Hz
Preset speed 6	-Hz SP6	30 Hz
Preset speed 7	-Hz SP7	35 Hz
Preset speed 8	-Hz SP8	40 Hz
Preset speed 9	-Hz SP9	45 Hz
Preset speed 10	-Hz SP10	50 Hz
Preset speed 11	-Hz SP11	55 Hz
Preset speed 12	-Hz SP12	60 Hz
Preset speed 13	-Hz SP13	70 Hz
Preset speed 14	-Hz SP14	80 Hz
Preset speed 15	-Hz SP15	90 Hz
Preset speed 16	-Hz SP16	100 Hz
Current limit	-A CL1	1.5 In
Current limit 2	-A CL2	1.5 In
Low speed oper. time	-s tLS	0 (no time limit)
Restart error threshold	rSL	0
Motor 2 IR compen.	-% UFr2	20%
Motor 2 freq. loop gain	-% FLG2	20%
Motor 2 freq. loop stabil.	-% StA2	20%
Motor 2 slip compen.	-% SLP2	100%
Frequency Lev.Att	-Hz FtA	bFr
Thermal Level Att.	-% tAd	100%
Current Level Att.	-A CtA	In
Display para. scale factor	SdS	30
Sw. Freq	-kHz SFr	4 kHz

drC - DRIVE CONTROL Menu

Parameter	Code	Factory Setting
Motor frequency	-Hz bFr	50 Hz
Nom. motor volt	-V UnS	Varies w/rating
Nom. motor frequency	-Hz FrS	50 Hz
Nom. motor current	-A nCr	Varies w/rating
Nom. motor speed	-RPM nSP	Varies w/rating
Motor CosPhi (power fact.)	CoS	Varies w/rating
Cool state stator resistance	rSC	n0
Auto tuning	tUn	n0
Auto tuning status	tUS	tAb
Voltage/frequency ratio	Uft	n
Noise reduction	nrd	YES
Switching frequency	-kHz SFr	4 kHz
Maximum frequency	-Hz tFr	60 Hz
Suppress speed loop filter	SrF	n0
Save the configuration	SCS	n0
Return to factory settings	FCS	n0

I - O - I/O Menu

Parameter	Code	Factory Setting
Terminal strip config	tCC	2C
Type 2 wire	tCt	ATV31*****A: LOC
Reverse operation	rrS	trn
AI3 low speed	-mA CrL3	4 mA
AI3 high speed	-mA CrH3	20 mA
Analog output config	AOit	oA
Analog/logic output	d0	n0
Relay R1	r1	FLt
Relay R2	r2	n0

CLL - CONTROL Menu

Parameter	Code	Factory Setting
Function access level	LAC	L1
Ref 1 config	Fr1	AI1
Ref 2 config	Fr2	AI1
Ref switching	rFC	Fr1
Separate ctrl/ref channels	SCCF	SIM
Ctrl channel 1 config	Cd1	tEr
Ctrl channel 2 config	Cd2	Mdb
Ctrl channel switching	CCS	Cd1
Copy channel 1 to channel 2	COP	n0
Ctrl via remote keypad	LCC	n0
Stop priority	PSt	YES
Direction of operation	rOt	dFr

FUn - APPLICATION FUNCTIONS Menu

Parameter	Code	Factory Setting
rPC submenu		
Ramp type	rPt	LIn
Start CUS accel ramp	-% tA1	10%
End CUS accel ramp	-% tA2	10%
Start CUS decel ramp	-% tA3	10%
End CUS decel ramp	-% tA4	10%
Accel ramp time	-s ACC	3 s
Decel ramp time	-s dEC	3 s
Ramp switching	rPS	n0
Ramp switch. thresh	Fr.t	0
Accel ramp time 2	-s AC2	5 s
Decel ramp time 2	-s dE2	5 s
Decel ramp adaptation	brA	YES
StC submenu		
Normal stop	Stt	Stn
Fast stop	FSt	n0
Decel ramp coef.	dCF	4
DC injection stop	dCI	n0
DC injection current	-A IdC	0.7 In
DC injection time	-s tDC	0.5 s
Freewheel stop	nSt	n0
AdC submenu		
Auto DC injection	AdC	YES
Auto inject. time	-s tDC1	0.5 s
Auto inject. level	-A SdC1	0.7 In
Auto inject. time 2	-s tDC2	0 s
Auto inject. level 2	-A SdC2	0.5 In
SAI submenu		
Summing input 2	SA2	AI2
Summing input 3	SA3	n0
PSS submenu		
2 preset speeds	PS2	if tCC=2C/LOC: LI3 if tCC=3C: LI4
4 preset speeds	PS4	if tCC=2C/LOC: LI4 if tCC=3C: n0
8 preset speeds	PS8	n0
16 preset speeds	PS16	n0
JOG submenu		
Jog operation	JOG	if tCC=2C/LOC: n0 if tCC=3C: LI4
Jog oper. reference	-Hz JGF	10 Hz
UPd submenu		
Plus speed	USP	n0
Minus speed	dSP	n0
Save references	Str	n0
PI submenu		
PI regulator feedback	PIF	n0
PI regul. proport. gain	rPG	1
PI regul. integral gain	rIG	1
PI feedback coeff.	FbS	1
Reverse PI regul. direction	PiC	n0
2 preset PI references	Pr2	n0
4 preset PI references	Pr4	n0

FUn - APPL. FUNCTIONS Menu (cont.)

Parameter	Code	Factory Setting
PI submenu (cont.)		
Preset PI ref. 2	-% rP2	30%
Preset PI ref. 3	-% rP3	60%
Preset PI ref. 4	-% rP4	90%
Restart after error thresh.	rSL	0
Internal PI regul. ref.	PI1	n0
Internal PI regul. ref.-%	rPI	0
bLC submenu		
Brake control config.	bLC	n0
Brake release freq.	-Hz brL	Varies w/rating
Release current thresh.-A	lbr	Varies w/rating
Brake release time	-s brt	0.5 s
Brake engage freq. thresh.	bEn	n0
Brake engage time	-s bEt	0.5 s
Brake release pulse	bIP	n0
LC2 submenu		
Current limit 2 switching	LC2	n0
Current limit 2	-A CL2	1.5 In
CHP Motor Switching	CHP	n0
LSt Limit switch management		

FLE - FAULTS Menu

Parameter	Code	Factory Setting
Automatic restart	Atr	n0
Max restart duration	tAr	5
Reset fault	rSF	n0
Catch on fly	FLr	n0
External fault	EtF	n0
External fault stop mode	EPL	YES
Motor phase loss fault config.	OPL	YES
Line phase loss fault config.	IPL	YES
Drive overheat fault stop mode	OHL	YES
Mtr overload fault stop mode	OLL	YES
Modbus serial link fault stop	SLL	YES
CANopen serial link fault stop	COL	YES
Auto-tune fault config.	tAL	YES
Signal loss fault stop	LFL	n0
Fallback speed	-Hz LFF	10 Hz
Undervoltage derated oper.	drr	n0
Mains power loss stop	StP	n0
Fault inhibit	InH	n0
Reset oper. time to zero	rPr	n0

CDn - COMMUNICATION Menu

Parameter	Code	Factory Setting
Modbus drive address	Add	1
Modbus transmission speed	tBr	19200
Modbus commun. format	tFO	8E1
Modbus timeout	-s tT0	10 s
CANopen drive address	AdCO	0
CANopen transmission speed	bCCO	125
CANopen error registry	ErCO	n0
Forced local mode	FLO	n0
Ref & ctrl channel selection in forced local mode	FLOC	AI1 ATV31*****A: AIP

SUP - DISPLAY Menu

Parameter	Code	Factory Setting
Speed ref. from remote	-Hz LFr	
Internal PI reference	-% rPI	
Freq. ref before ramp	-Hz FrH	
Output freq. at motor	-Hz rFr	
Output value in cust. units	SPd1	
	SPd2	
	SPd3	
Motor current	-A LCr	
Motor power	-% OPr	
Line voltage	-V ULn	
Motor thermal state	-% tHr	
Drive thermal state	-% tHd	
Last fault	LFT	
Motor torque	-% Otr	
Operating time	-hr rTH	

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