

## INTRODUCTION

This reference guide provides a brief overview of the Altistart® 48 (ATS48) soft start controllers' keypad—describing its operation, how to access menus and parameters, as well as defining fault codes.

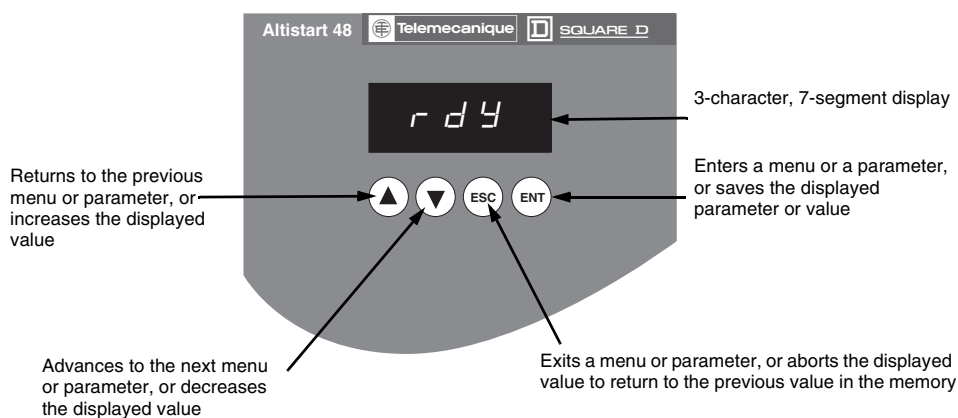
Refer to the *ATS48 Soft Start Installation Guide* (30072-450-61\_) for complete soft start installation and programming instructions. For a list of general guidelines to troubleshoot the soft start based on the fault code displayed on its keypad, refer to the maintenance, troubleshooting, and repair section of the ATS48 installation guide.



**Altistart 48 Family**

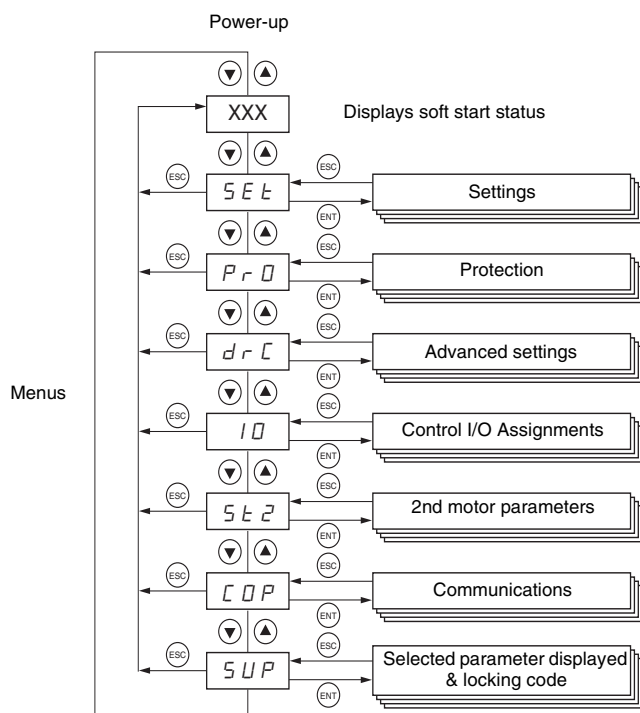
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## KEYPAD OPERATION

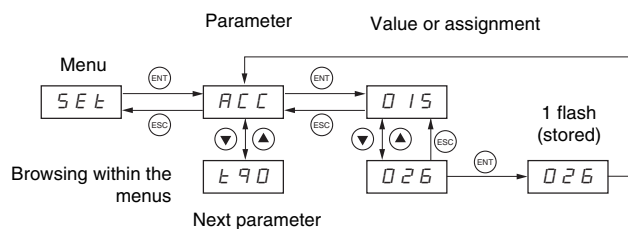


## ACCESS TO MENUS

**NOTE:** Pressing or does not store the choices. To store the displayed choice, press . The display flashes when a value is stored.



## ACCESS TO PARAMETERS



The display flashes when a value is stored. Some functions may require pressing the ENT button for two seconds to store the parameter change.



## SEt - BASIC SETTINGS Menu

Parameter	Code	Factory Setting
Nominal motor current	In	Varies w/rating, A
Current limit	ILt	400% of In
Acceleration ramp time	ACC	15 s
Initial starting torque	t90	20%
Type of stop	Sty	-F- (Freewheel Stop)
Deceleration ramp time	dEC	15 s
Final deceleration torque	EdC	20%
Impulse braking torque level	brC	50%
DC injection braking time	EbA	20%

## P r D - PROTECTION Menu

Parameter	Code	Factory Setting
Motor overload protection	tHP	class 10
Activation of motor underload	ULL	OFF
Motor underload threshold	LUL	60%
Motor underload time	tUL	60 s
Excessive starting time	tLS	OFF
Activation of current overload	OIL	OFF
Current overload threshold	LOC	80%
Current overload time	tOL	10 s
Line phase reversal protect	PHr	no
Time before restarting	tbS	2 s
Phase loss threshold	PHL	10%
Motor-monitoring PTC probes	PtC	OFF
Automatic restart	ArS	OFF
Reset motor thermal state	rTH	no

## d r C - ADVANCED SETTINGS Menu

Parameter	Code	Factory Setting
Torque limit	tLI	OFF
Voltage boost level	bSt	OFF
Test on small motor	SSt	OFF
Torque control	CLP	ON
Stator loss compensation	LSC	50%
Deceleration gain	tIG	40 %
Cascade function activation	CSC	OFF
Line voltage	ULn	460 V
Line frequency	FrC	AUT (Automatic)
Reset kWh/elapsed time	rPr	no
Return to factory settings	FCS	no

## I - D - I/O Control Terminal Settings Menu

Parameter	Code	Factory Setting
Logic inputs	L13	LIA (Freewheel Stop)
	L14	LIL (Forced Local)
Preheating level	IPr	0%
Time delay before preheating	tPr	5 min.
Logic outputs	LO1	tAl (Motor Thermal Alarm)
	LO2	rnl (Motor Powered)
Relay R1	r1	r1F (Fault Relay)
Relay R2	r2	(end of start)
Relay R3	r3	rnl (Motor Powered)
Analog output	AO	OCr (Motor Current)
Config. of analog output	04	020 (0-20 mA)
Scaling of analog output	ASC	200%

## SE2 - 2ND MOTOR PARAMETERS Menu

Parameter	Code	Factory Setting
Nominal motor current	In2	Varies w/rating, A
Current limit	IL2	400% of In2
Acceleration ramp time	AC2	15 s
Initial starting torque	t92	20%
Deceleration ramp time	dE2	15 s
Final deceleration torque	Ed2	20%
Torque limit	tL2	OFF
Deceleration gain	tI2	40%

## C O P - COMMUNICATIONS Menu

Parameter	Code	Factory Setting
Soft start address	Add	0
Communication speed	tbr	19.2
Communication format	FOr	8n1
Serial link timeout setting	tLP	5 s
Restore remote keypad display	Pct	OFF

## SUP - PARAMETER DISPLAYED Menu

Parameter	Code	Unit
Power factor	COS	0.01
Motor thermal state	tHr	%
Motor current	LCr	A or kA
Elapsed operating time	rnt	h or kh
Active power	LPr	%
Active power in kW	LAP	kW
Motor torque	Ltr	%
Display of current state	EtA	
Last detected fault	LfT	
Phase rotation direction	PHE	
Keypad display locking code	C0d	

## TROUBLESHOOTING

Fault Code	Description
nLP rdY	Soft start without run command and: • Line power not supplied • Line power supplied
tbS	Starting time delay not elapsed
HEA	Motor preheating in progress
(Use SUP menu to set up monitoring parameter. Factory setting: Motor Current.)	Soft start with run command
brL	Soft start braking
Stb	Waiting for a command (RUN or STOP) in cascade mode
CFF	Invalid configuration on power-up
CFI	Invalid configuration
CLF	Loss of Control Power
EEF	Internal memory fault
EtF	External fault
FrF	Line frequency out of tolerance
InF	Internal fault
LrF	Locked rotor fault
OCF	Overcurrent fault
OHF	Soft start overheating fault
OLC	Current overload fault
OLF	Motor overload/ground fault
OtF	Motor thermal fault detected by PTC probes
PHF	Loss of line or motor phase
PIF	Phase reversal fault
SLF	Serial link fault
StF	Excessive starting time
ULF	Motor underload fault
USF	Lack of AC line power on a run command

NOTE: Please refer to the troubleshooting section of the ATS48 Soft Start Installation Guide (30072-450-61\_) for complete installation and programming instructions.



ATS48C14Y Altistart Panel Mount Soft Start  
with keypad in cover.

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