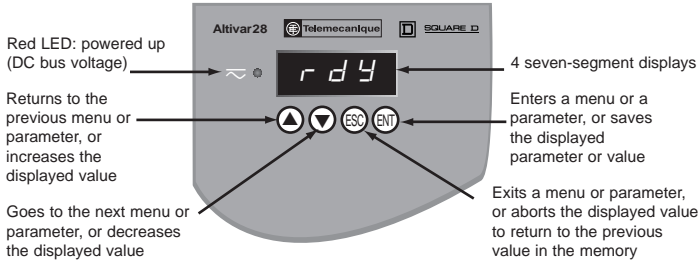


ALTIVAR 28 Quick Reference Guide

Keypad Operation & Reference

Using the Keypad Display



Menu 1 – Adjustment Menu (SEt)

Parameter	Code	Factory Setting
Speed Reference via the Display Module	LFR	
PI Reference	rP1	0.0
Direction of Operation	rDt	For
Acceleration Time	rCC	3 sec
Deceleration Time	dEC	3 sec
Acceleration Ramp #2	rC2	5 sec
Deceleration Ramp #2	dE2	5 sec
Low Speed	LSP	0 Hz
High Speed	HSP	(bFr)
Motor Full Load Current (protection)	lEH	(In)
Optimize Low Speed Torque (voltage boost)	UFr	20
Slip Compensation	SLP	0.0–5.0 Hz
Frequency Loop Gain	FLG	33
DC Injection Braking Current	IdC	0.7In
DC Injection Braking Time at Standstill	t dC	0.5 sec
Skip Frequency	JPF	0 Hz
Jog Frequency	JOG	10 Hz
PI Regulator Proportional Gain	rPG	1
PI Regulator Integral Gain	rIG	1/s
PI Feedback Multiplication Coefficient	r b5	1
PI Regulator Reverse Coefficient	PIC	no
Preset Speed 2nd	SP2	10 Hz
Preset Speed 3rd	SP3	15 Hz
Preset Speed 4th	SP4	20 Hz
Preset Speed 5th	SP5	25 Hz
Preset Speed 6th	SP6	30 Hz
Preset Speed 7th	SP7	35 Hz
Frequency Threshold where R2 Closes	Ft d	(bFr)
Current Threshold where R2 Closes	Ct d	1.5In
Motor Thermal where R2 Closes	t t d	100%
Low Speed Operation Time	t L5	0

Menu 2 – Drive Menu (DRc)

Parameter	Code	Factory Setting
Nominal Motor Voltage	Un5	230/460V
Nominal Motor Frequency	F r5	50/60 Hz
Auto-tuning	t Un	no
Maximum Output Frequency	t Fr	60/72 Hz
Type of Volts/Hz Ratio	Ft n	n
Automatic Ramp Modification for Decel	b r A	YES
Alternate Accel/Decel Ramp Frequency	F r E	0 Hz
Carrier Switching Frequency	S Fr	4.0
Random Carrier Frequency Modulation	r r d	YES
Automatic Restart	Rt r	no
Enable Output Phase Failure Fault	D PL	YES
Enable Line Supply Phase Failure Fault	I PL	YES
Controlled Stop on Loss of Line Supply	S t P	no
Enable Smooth Restart after Fault	F L r	no
Lower Tripping Threshold of Undervoltage	d r n	no
Scale Factor of Output Frequency for Speed	S d5	30
Return to Factory Settings	F C5	no

Menu 3 – I/O Menu (I-O)

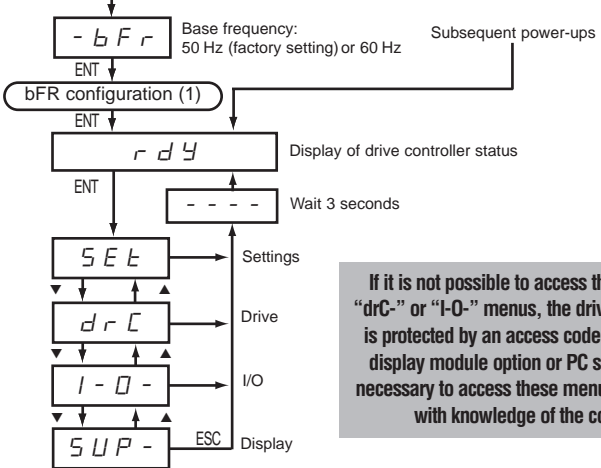
Parameter	Code	Factory Setting
Control Strategy Configuration (2-wire/3-wire)	t C C	2C
2-Wire Control	2 C	
3-Wire Control	3 C	
Presence of Local Control Option	D P t	
Enable for Start/Stop using Remote Display	L C C	no
Logic Input 2 Assignment	L I2	rrS
Logic Input 3 Assignment	L I3	PS2
Logic Input 4 Assignment	L I4	PS4
Not Assigned	n o	
Reverse Rotation	r r5	
Ramp Switching	r P2	

The parameters in colored boxes appear if the corresponding functions have been configured in the dcr or I/O menus.

Electrical equipment should be serviced only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material. This document is not intended as an instruction manual for untrained persons.

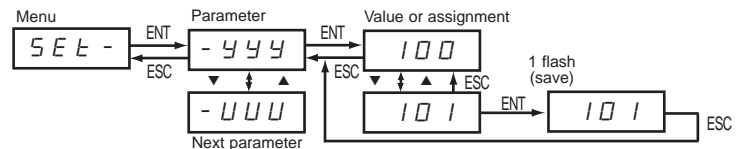
Access to Menus

1st power-up after factory configuration



If it is not possible to access the “SEt”, “DRc” or “I-O” menus, the drive controller is protected by an access code. A remote display module option or PC software is necessary to access these menus, together with knowledge of the code.

Access to Parameters



Menu 3 – I/O Menu (I-O) continued

Parameter	Code	Factory Setting
Jog Operation	JOG	
2 Preset Speeds	PS2	
4 Preset Speeds	PS4	
8 Preset Speeds	PS8	
Freewheel Stop	n St	
DC Injection Braking	d C I	
Fast Stop	F St	
Forced Local Mode	F L D	
Fault Reset	r St	
Analog Speed Reference Switching	r F C	
Analog Input Assignment of 2nd Input	A I C	SAI
Not Assigned	n o	
Summing with All	S A I	
PI Regulator Feedback, setpoint = parameter rP1	r P I	
PI Regulator Feedback, setpoint = All	P I A	
Minimum Value on Analog Current Input	C r L	4 mA
Maximum Value on Analog Current Input	C r H	20 mA
Assignment of Analog Output	A D	rFr
Not Assigned	n o	
Motor Current	D c r	
Motor Frequency	r F r	
Motor Torque	D L D	
Drive Power Supplied	D P r	
Assignment of Offset for Analog Output	A D t	0
Assignment of R2 Relay	r 2	SrA
Not Assigned	n o	
Frequency Threshold Reached	F t A	
Current Threshold Reached	C t A	
Speed Reference Reached	S r A	
Motor Thermal Threshold Reached	t S A	
Drive Address via Serial Link	A d d	1
Serial Link Transmission Speed	b d r	19.2

Menu 4 – Display Menu (SUP)

Parameter	Code	Factory Setting
Control Strategy Configuration (2-wire/3-wire)	F r H	Hz
Enable for Start/Stop using Remote Display	r F r	Hz
Display Calculated Value of Speed or Production Rate (rFr X Sds)	S P d	A
Display Motor Current	L C r	%
Display Motor Power	D P r	V
Display Line Voltage	U L n	%
Display Motor Thermal State	t H r	%
Display Drive Controller Thermal State	t H d	—
Display Last Fault	L F t	—
Display Drive Controller Software Version	C P U	—
Access Code Protection	C O d	—
Display of Controller Status	—	—



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