

ALTIVAR 28 Quick Reference Guide

Keypad Operation & Reference

Using the Keypad Display



Menu 1 – Adjustment Menu (S E t)

Parameter	Code	Factory Setting
Speed Reference via the Display Module		
PI Reference	1 - P - 1	100
Duration of Operation	1 - D - 1	100
Acceleration Time	2 - A - 1	3.500
Deceleration Time	2 - D - 1	3.500
Acceleration Ramp #1	2 - A - 2	3.500
Deceleration Ramp #2	2 - D - 2	3.500
Low Speed	2 - L - 1	100
High Speed	2 - H - 1	1000
Motor Full Load Current (protected)	1 - A - 1	100
Optimum Low Speed Torque (voltage boost)	2 - L - 2	20
Slip Compensation	1 - S - 1	0.5 - 5.0 Hz
Frequency Loop Gain	1 - L - 1	10
DC Injection Braking Current	1 - B - 1	100%
DC Injection Braking Time at Standstill	1 - B - 2	100%
Stop Frequency	1 - S - 2	0.10
Ref. Frequency		
PI Regulator Proportional Gain	1 - P - 1	100
PI Regulator Integral Gain	1 - I - 1	1.76
PI Feedback Multiplication Coefficient	1 - B - 1	100
PI Regulator Reverse Coefficient	1 - R - 1	100
Presel Speed 1Hz	1 - S - 1	100
Presel Speed 2Hz	1 - S - 2	100
Presel Speed 3Hz	1 - S - 3	100
Presel Speed 4Hz	1 - S - 4	100
Presel Speed 5Hz	1 - S - 5	100
Presel Speed 6Hz	1 - S - 6	100
Presel Speed 7Hz	1 - S - 7	100
Frequency Threshold where FO Closed	1 - F - 1	1000
Current Threshold where FO Closes	1 - C - 1	100%
Motor Thermal where FO Closes	1 - T - 1	100%
Low Speed Operation Time	1 - L - 2	0

Menu 2 – Drive Menu (D r C)

Parameter	Code	Factory Setting
Nominal Motor Voltage	2 - V - 1	230/240V
Nominal Motor Frequency	2 - F - 1	50/60 Hz
AcCo Setting	2 - A - 1	00
Maximum Output Frequency	2 - F - 2	50/60 Hz
Type of Voltage Mode	2 - V - 3	00
Automatic Ramp Modification for Decel	2 - A - 2	00
Alternate Accel/Decel Ramp Frequency		
Carrier Switching Frequency	2 - C - 1	4.00
Random Carrier Frequency Modulation	2 - C - 2	00
Accelerator Reset	2 - A - 3	00
Enable Output Phase Failure Fault	2 - P - 1	00
Enable Low Supply Phase Failure Fault	2 - P - 2	00
Collocated Stop Off Limit of Line Supply	2 - S - 1	00
Enable Smooth Restart after Fault	2 - S - 2	00
Carrier frequency threshold at undervoltage	2 - U - 1	100
Scale Factor of Output Frequency for Speed	2 - S - 3	100
Return to Factory Settings	2 - R - 1	00

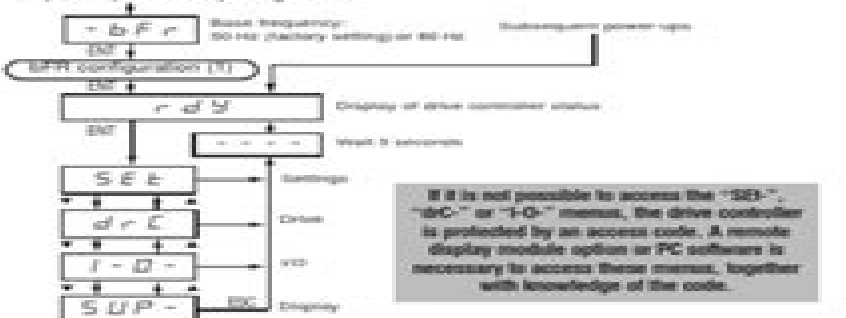
Menu 3 – I/O Menu (I - O)

Parameter	Code	Factory Setting
Control Strategy Configuration (2-wire/3-wire)		
2-wire Control	3 - 2 - 1	00
3-wire Control	3 - 3 - 1	00
Presence of Local Control Option	3 - L - 1	00
Enable for Speeding using Remote Display		
Logic Input 1 Assignment	3 - I - 1	00
Logic Input 2 Assignment	3 - I - 2	00
Logic Input 3 Assignment	3 - I - 3	00
Not Assigned	3 - N - 1	00
Reversible Rotation	3 - R - 1	00
Running Switching	3 - S - 1	00

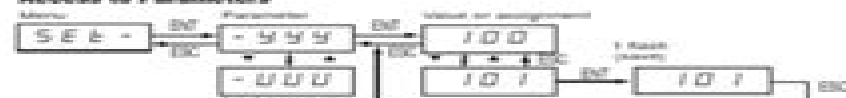
The parameters in colored boxes appear if the corresponding functions have been configured in the dir or I/O menus.

Access to Menus

Not power up after factory configuration



Access to Parameters



Menu 3 – I/O Menu (I - O) continued

Parameter	Code	Factory Setting
2-wire Operation	3 - 2 - 1	00
1-wire Control	3 - 1 - 1	00
3-wire Control	3 - 3 - 1	00
Presence of Stop	3 - S - 1	00
DC Injection Braking	3 - B - 1	00
Fast Stop	3 - F - 1	00
Forced Local Mode	3 - L - 1	00
Fault Reset	3 - R - 1	00
Analog Speed Reference Switching	3 - S - 2	00
Analog Input Assignment of 2nd Input	3 - I - 2	00
Not Assigned	3 - N - 1	00
Switching with AI	3 - S - 3	00
PI Regulator Feedback, input = parameter #1	3 - P - 1	00
PI Regulator Feedback, input = AI	3 - P - 2	00
Minimum Value on Analog Current Input	3 - C - 1	4 mA
Maximum Value on Analog Current Input	3 - C - 2	20 mA
Assignment of Analog Output	3 - A - 1	00
Not Assigned	3 - N - 1	00
Motor Current	3 - M - 1	00
Motor Frequency	3 - F - 1	00
Motor Torque	3 - T - 1	00
Over Power Supply	3 - O - 1	00
Assignment of Input for Analog Output	3 - A - 2	00
Assignment of Analog Relay	3 - R - 1	00
Not Assigned	3 - N - 1	00
Frequency Threshold Reached	3 - F - 1	00
Current Threshold Reached	3 - C - 1	00
Speed Reference Reached	3 - S - 1	00
Motor Thermal Threshold Reached	3 - T - 1	00
Drive Address via Serial Link	3 - A - 1	1
Serial Link Transmission Speed	3 - L - 1	19.2

Menu 4 – Display Menu (S U P)

Parameter	Code	Factory Setting
Control Strategy Configuration (2-wire/3-wire)	4 - 2 - 1	00
Enable for Stop/Stop using Remote Display	4 - S - 1	00
Display Calculated value of Speed or Torque	4 - C - 1	00
Display Motor Current	4 - M - 1	00
Display Motor Torque	4 - T - 1	00
Display Line Voltage	4 - V - 1	00
Display Motor Thermal State	4 - T - 2	00
Display Drive Controller Thermal State	4 - T - 3	00
Display Last Fault	4 - F - 1	00
Display Drive Controller Software Version	4 - V - 2	00
Access Code Protection	4 - C - 1	00
Display of Controller Status	4 - S - 1	00

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