

**How to Change Parameters** 



(S/L2

excessive dampness, extreme temperatures, chemical exposure, corrosive areas etc. to avoid damage to the equipment and to maintain safety

#### **Removing Protective Covers**

Improper removal of the J1000 front cover and terminal cover can cause extensive damage to the J1000. To avoid damage to these items, please pay particular attention to the J1000 Quick Start Guide, Section 3.5, Protective Covers.





attached and power is turned on. DO NOT RUN THE MOTOR. Access Parameter Menu and Change Parameter Value J1000 Digital Operator power-up state key once The digital operator shows the parameter key. menu (PAr) then press the Select Parameter Menu key to select the digit you would like to change. Next use the N ENTER keys to select the Select Parameter parameter group, sub-group or number. Modify the parameter value using the key and press key to save the new value **Change Parameter Value** Monitor Motor Frequency and Motor Current J1000 Digital Operator power-up state -> key until the FOUT 읉 LED turns on. The display now shows the actual drive output frequency in Hz. **Output Frequency**  $\wedge$ key again will show the motor output current. The 'A'

Motor Current

dampness, poor

ventilation etc. will

not cause system

Please read this

**Quick Start Guide** 

(TOEPC71060626)

provided with the

J1000 thoroughly

before attempting

anv installation.

sheet and the

degradation.



Step

5

## **J1000 CHEAT SHEET**

## Selecting Start/Stop and Speed Method

This step shows how to setup the sequence and reference method of the J1000. The sequence method determines how the J1000 drive receives its start and stop command and the reference method determines how the speed of the motor is controlled. Make sure all protective covers have been re-attached and power is turned on. DO NOT RUN THE MOTOR.

This section may require you to change one or more J1000 parameters, please refer to Step 4 for a detailed explanation on how to change parameters.



# Step 6

## **Quick Start Parameters**

The following table lists the general purpose application parameters as well as frequently asked questions. This section may require you to change one or more J1000 parameters, please refer to Step 4 for a detailed explanation on how to change parameters.

### STANDARD APPLICATION PARAMETERS

PARAMETER	DEFAULT VALUE	DESCRIPTION	COMMENTS
b1-01	1	Reference Source, Speed Control Method	0 = Digital Operator (Adjust Motor Speed from keypad) 1 = Terminals (Speed Pot. / 0 – 10V / 4—20mA)
b1-02	1	Run Source / Start/Stop Control Method	0 = Digital Operator (Start/Stop motor from keypad) 1 = Terminals (Start/Stop using external contact / switch)
b1-03	1	Stop Method Selection	0 = Ramp to stop (Motor ramps down at stop command) 1 = Coast to stop (Motor freewheels at stop command)
b1-04	0	Reverse Operation	0 = Allow motor to run in reverse direction 1 = Reverse direction prohibited
C1-01	10.0 sec.	Acceleration Time	The time it takes to ramp up from 0 to maximum motor speed.
C1-02	10.0 sec.	Deceleration Time	The time it takes to ramp down from maximum motor speed to 0.
C6-01	1	Normal / Heavy Duty	0 = Normal Duty (Use for fan and pump applications) 1 = Heavy Duty (Use for conveyor, mixer, applications)
d1-01	0.00 Hz	Frequency Reference	Frequency setting when speed is set from the keypad.
d2-01	100.0 %	Frequency Upper Limit	Maximum motor speed allowed (e.g. 100 % = Max rpm)
d2-02	0.0 %	Frequency Lower Limit	Minimum motor speed allowed (e.g. 100 % = Max rpm)
E2-01	*	Motor Rated Current	Motor nameplate current
L1-01	1	Motor Overload Selection	0 = Disabled 1 = Standard Fan Cooled Motor 2 = Standard Blower Cooled Motor
L1-02	1.0 min	Motor Overload Time	Sets the motor thermal overload protection time.

### FREQUENTLY ASKED QUESTIONS

Question: How do I reset the drive back to factory default settings?

**Answer:** Go to parameter A1-03 and set value **2220** for 2 – wire control or **3330** for 3 – wire control (Please refer to Step 5 for wiring diagram)

Question: How do I adjust the time it takes the motor to speed up or slow down?

Answer: Adjust the acceleration time parameter C1-01 and deceleration time C1-02.

Question: How do I prevent my drive from tripping on an OV fault (overvoltage) while my motor is ramping down?

Answer: Increase deceleration time parameter C1-02.

**Question:** How do I prevent my drive from tripping on an **OL1** fault (overload) while my motor is ramping down?

Answer: Verify motor rated current parameter E2-01 and motor overload parameter settings L1-01 Motor overload selection, L1-02 Motor overload protection time.

Question: I want to run my motor above the nominal motor speed?

Answer: Increase the value of parameter E1-04 Maximum Frequency Warning: Verify that the motor and system allow for this.

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