

IMPULSE • P3 Quick Reference Guide





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This guide is intended to assist you in quickly programming the IMPULSE•P³ Series 2 adjustable frequency motor control to enable you to get up and running quickly. It will guide you in obtaining basic starting characteristics for your application. For advanced programming of features please refer to the complete IMPULSE•P³ Series 2 adjustable frequency motor control instruction manual.

The basic programming of the inverter centers around three constants, no-00, no-01 and n0-02. Constant no-00 controls the X-Press Programming $^{\text{TM}}$ of the drive, no-01 sets the motor rated current and no-02 is the password to enable programming of the inverter.

- 1. After applying power to the inverter, the display will show the output frequency 00.0.
- 2. At this point pressing the PROGRAM DRIVE key will place you in the programming mode of operation and the display will read \$10-00.
- 3. Press key until $\Pi 0$ -02 is displayed.
- 4. Press DATA and 00 will be displayed with the left hand digit blinking. The blinking it is that can be changed with the arrow keys.
- 5. Press and the blinking digit will move one digit to the right.

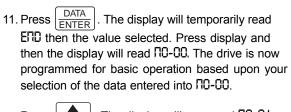
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ΠΟ-09 for acceleration time ΠΟ-09 for deceleration time 24. Upon reaching the desired acceleration/deceleration constant, press DATA	 Press ENTER. The display will temporarily read END then 02. Press display and the display will read NO-02. The keypad is now unlocked to enable you to perform basic drive programming. Press until the display reads NO-00. From the following table, find the type of motion and speed control method that your application requires.
25.Press ENTER . The display will temporarily read ΕΠΟ then the value entered. Press display then ΠΟ-ΧΧ,	Data Value Function 00 Initialize for Traverse—Two-Speed Multi-Step Speed Control
where XX will depend upon whether you are on the acceleration or deceleration constants. 26. Press PROGRAM DRIVE . The drive LED in the upper left	01 Initialize for Traverse-Three-Speed Multi-Step Speed Control 02 Initialize for Traverse-Five-Speed Multi-Step Speed Control 03 Initialize for Traverse-Two-Step Infinitely Variable Speed Control 04 Initialize for Traverse-Three-Step Infinitely Variable Speed Control 05 Initialize for Hoist-Two-Speed Multi-Step Speed Control
hand corner of the display will come on indicating that the drive is in the normal operating mode and is ready to accept a run command.	O6 Initialize for Hoist—Three-Speed Multi-Step Speed Control O7 Initialize for Hoist—Five-Speed Multi-Step Speed Control O8 Initialize for Hoist—Two-Step Infinitely Variable Speed Control O9 Initialize for Hoist—Three Step Infinitely Variable Speed Control
27. Issue a run command to the drive and check for acceptable operation. If operation is still not accept- able, repeat steps 18 through 26 to further adjust the drive.	 9. Press DATA ENTER. 10. The Display will read the present data value at constant ∏0-00. Use the RESET to move the blinking digit to the decired as the present data value at constant properties.
28.If further assistance is needed, please refer to the complete IMPULSE•P3 Adjustable Frequency Motor Controls Instruction Manual or call Electromotive Sytems service department at 800/288-8178.	blinking digit to the desired position on the display. Use the or to set the data value to the desired value found in the above table.
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23. To change the acceleration/deceleration rates, press the key until you reach:

6. Press key until the display reads 02.



2.Press . The display will now read Π0-01.

13. Press DATA ENTER Use RESET and the

keys to enter in the full load amps from the motor nameplate.

NOTE: If more then one motor is being controlled by the drive, enter in the total of all the motor full load amp ratings. This step is important to provide proper motor overload protection.

- 14. Press DATA ENTER. The display will temporarily read END then value entered. Press display and then the display will read NO-01. The motors full load amp rating is now programmed in the drive-
- 15. Press PROGRAM DRIVE In the upper left hand corner or the display will come on indicating that the drive is in the normal operating mode and is ready to accept a run command.
- 16. Issue a run command to the drive and check for acceptable operation. Depending on the speed control method selected the various speed set points can be changed as well as the acceleration and deceleration times.

17. If the speed(s) or the acceleration/deceleration times are not acceptable.

18. Press the $\frac{\text{PROGRAM}}{\text{DRIVE}}$ key to return to the programming mode of operation.

19. Press the up arrow key until you reach the desired speed constant as listed below:

Speed 1-00-03

Speed 2-70-04

Speed 3-70-05

Speed 4-00-05

Speed 5-00-07

NOTE: $\Pi \mathcal{G}$ - $\mathcal{G} \mathcal{T}$ also sets the upper speed for the infinitely variable speed control and in all cases $\Pi \mathcal{G}$ - $\mathcal{G} \mathcal{T}$ sets the minimum speed.

20. Upon reaching the desired speed constant, press the DATA and use the RESET key to position the blinking cursor in the desired digit and then use

the or keys to set the desired speed.

- 21. Press the ENTER. The display will temporarily read END then value entered. Press display then NO-XX will appear, where XX will depend upon the speed constant that you changed.
- 22. Follow steps 19 through 21 until all of the speeds are set to the desired value.

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