

**TECO Westinghouse**

**Out of the box Startup**



**OVERVIEW**

This document will enable the user to quickly get the motor turning with a minimum amount of external connections using the keypad. It will also provide familiarity with keypad navigation allowing the selection and changing of additional parameters. It must be realized that it is not a substitute for the N3 Series Manual and the user is urged to review this document before proceeding.

Steps 1 through 4 will allow the user to get the motor "up and running" in a simple mode using the keypad. The reverse side of this document shows other methods of control using the control terminals, and the changing of the acceleration and deceleration time. The factory default Basic "B" parameters are also shown for reference.

**! DANGER**  
Please use caution when powering up and powering down the inverter as there are lethal voltages present.

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**1 Check Nameplate & Remove Cover**

Out of the box, check the inverter nameplate information. Make sure that the proper model has been received and that the input power requirements are available. Also check that the inverter output matches the Motor requirements

CAUTION	
Model	: xxxxxxxxxxxx
Motor Rating	: xxHP/xxkW
INPUT	: AC x phase 50/60 Hz
VOLTAGE	: xxx-xxxV (+10%,-15%)
Amps	: xx.x A
OUTPUT	: AC 3 phases 0-400 Hz
VOLTAGE	: 0 - xxxV
Amps	: xx.x A
Enclosure Type and Rating	

Remove the cover to expose the power terminals.  
**Note: The inverter shown below is an IP20 0.5 HP. Cover removal for other models will vary and the user is referred to the N3 manual for details**



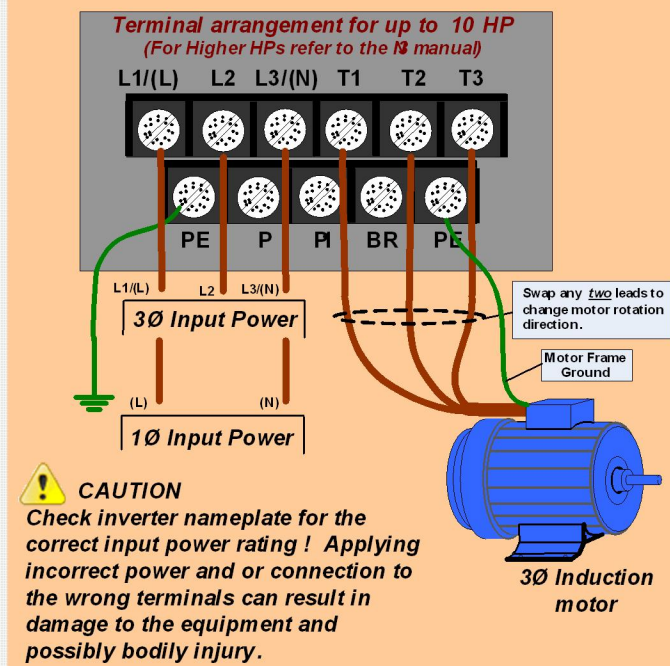
Remove Screw and Cover to expose the power terminals  
- Go to STEP 2

**2 Connect Motor and Line power**

Secure (mount) the inverter in an environment that is free from harmful conditions that may cause damage such as excessive moisture, temperature extremes, chemical exposure etc. (see the N3 manual for further details)

With power OFF make the input power and motor connections in accordance with Fig. 1 below.  
**Note: the inverter terminal arrangement shown in Fig. 1 is for up to 10 HP. For higher HPs please refer to the N3 manual for terminal arrangement.**

**! DANGER**  
Do not apply power until all connections are correct and secure, and all protective covers are in place.



**! CAUTION**  
Check inverter nameplate for the correct input power rating! Applying incorrect power and or connection to the wrong terminals can result in damage to the equipment and possibly bodily injury.

Fig.1 Input Power and Motor Connections

After all electrical connections are secure and all protective covers are in place, power up the inverter.  
- Go to STEP 3

**3 Enter Motor Data**

On power up, the flashing display will show the applied line voltage with the VOLT LED flashing for about 2 sec. Then the initial output frequency (05.00 Hz) will be displayed with the Hz/RPM LED on and flashing



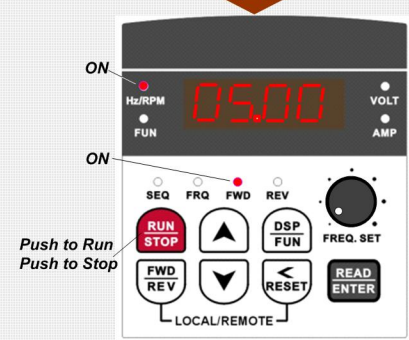
Enter the following motor nameplate data via the keypad as shown.

- A001 = Motor rated voltage (Vac)
- A002 = Motor rated current (Amps)
- A003 = Motor rated power (HP)
- A004 = Motor rated speed (Rpm) x 100
- A005 = Motor rated frequency (Hz)

To access the A (advanced parameters) set b011=0001  
Press the **DSP FUN** key to display **6000** Press the **▲** key to display **6001** Press the **◀** key to display **6001**  
Press the **▲** key to display **6011** Press the **READ ENTER** key;  
The display should read **0000** Press the **▲** key to display **0001** Press the **READ ENTER** key; The display should momentarily read **End** and then **6011** Next to access the **A** parameters, press the **◀** key 3 times to display **0000** and then the **▲** key to display **0000**  
Press the **◀** key once to display **A001** Press the **READ ENTER** key, then using the **◀**, **▲** and **▼** keys, enter the **motor nameplate rated voltage. Ex. 2300** Press the **READ ENTER** key to save the value; the display should momentarily show **End** and then **A001** Press the **▲** key to access the next parameter **A002** motor nameplate rated current. Follow this procedure until parameters **A001** thru **A005** have been entered. To return to the main menu, press the **DSP FUN** key. - Go to Step 4

**4 Run the motor with keypad**

In this step using the keypad (default setting), the motor will initially be run at 5 Hz and the motor checked for proper rotation and operation. The digital operator should be displaying as shown below



Press the **RUN STOP** key; the motor should now be operating at low speed and the direction of rotation should be **FWD (clockwise)** as viewed from the shaft end of the motor. If the shaft rotation is not correct, press the **RUN STOP** key, then **power down** the inverter and swap any two of the motor leads, T1, T2, or T3. (See Fig. 1 in Step 2.)

**! DANGER**  
After the power has been turned OFF, wait at least 5 minutes until the charge indicator **Extinguishes completely** before touching any wiring, circuit boards or components.

With all connections and protective covers secure - **Power up** the inverter and repeat Step 4. Then, using the **▲** and **▼** keys, run the motor at various speeds and check for proper operation. - Go to Step 5



