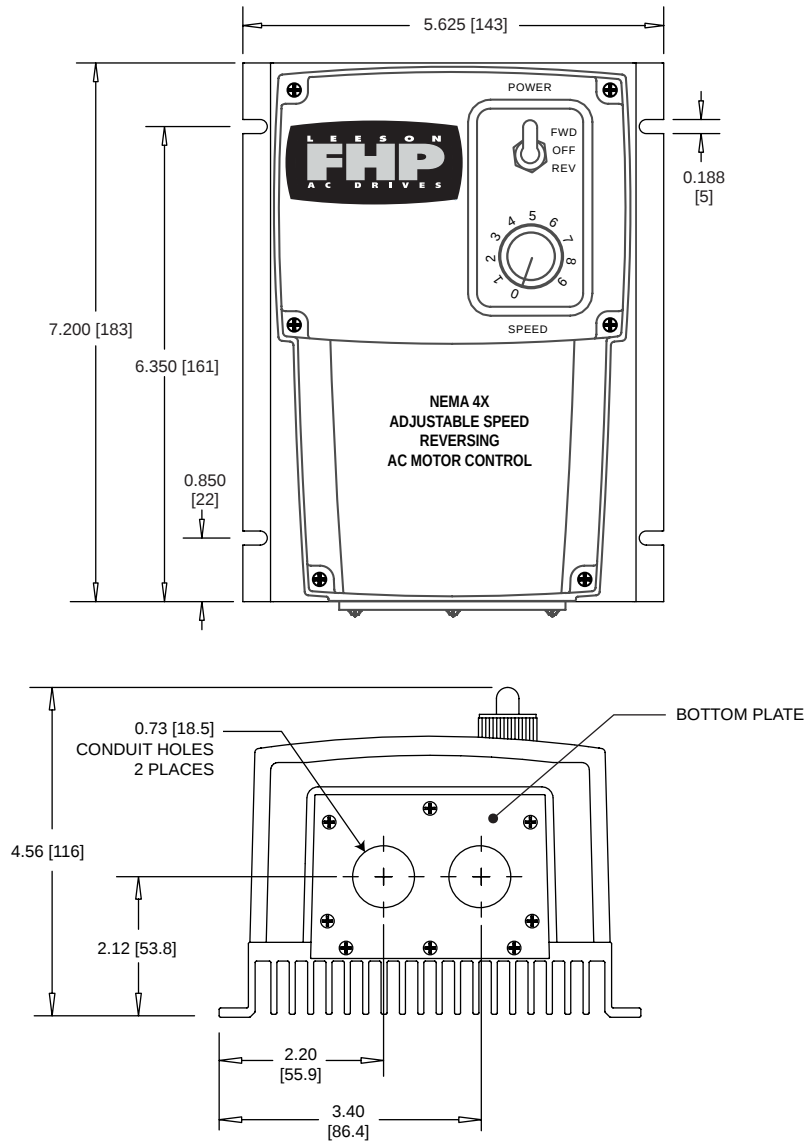




175326.00

**Variable Frequency Drive for
3-phase & single phase AC motors**

DIMENSIONS



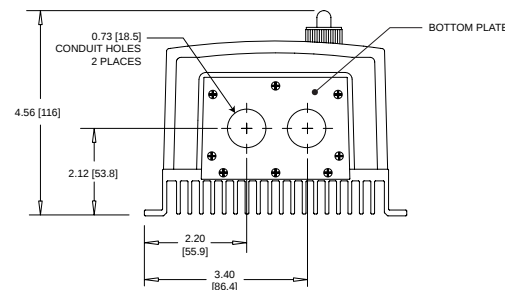
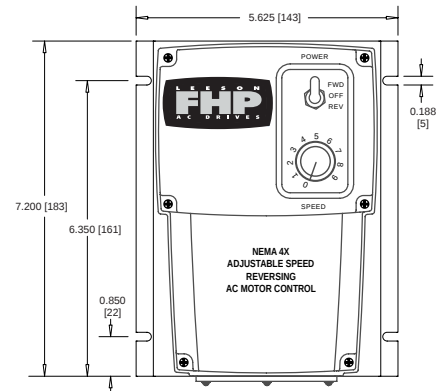
ALL DIMENSIONS IN INCHES [MILLIMETERS]

QUICK START GUIDE

SPECIFICATIONS

1-Phase Input	* 115/230 VAC
1 or 3 -Phase Output	230 VAC
Maximum Horsepower	1 HP
Maximum Continuous Output Current	4.0 AC
AC Amps In	15 / 10 amps
AC Voltage Input Range	115/230 VAC $\pm$ 10%, 50/60 Hz single phase
Standard Carrier Frequency	16 KHz
Adjustable Braking Current	0 - 4 ADC
Adjustable Braking Time	1 - 10 Sec.
Adjustable Minimum Speed	0 - 30 Hz
Output Frequency Range	0 - 120 Hz
Adjustable Maximum Output Frequency Range	30 - 120 Hz
Acceleration Time Range	1 - 12 secs
Deceleration Time Range	1 - 12 secs
Analog Input Voltage Range (S1 [-] to S2 [+])	0 - 5 VDC, 0 - 10 VDC, 4 - 20 mA
Input Impedance, S1 to S2	~ 100K ohms
Vibration	0.5G max (20 - 50 Hz) 0.1G max (> 50 Hz)
Weight	1.2 lbs
Ambient Operating Temperature Range	10° - 40° C

* Jumper settings MUST match input line voltage. Application of 230 VAC line input when jumpers are set for 115 VAC will result in severe damage to the drive.



ALL DIMENSIONS IN INCHES [MILLIMETERS]

REMOVING THE CASE COVER

1. Remove the six (6) phillips screws on the front case.

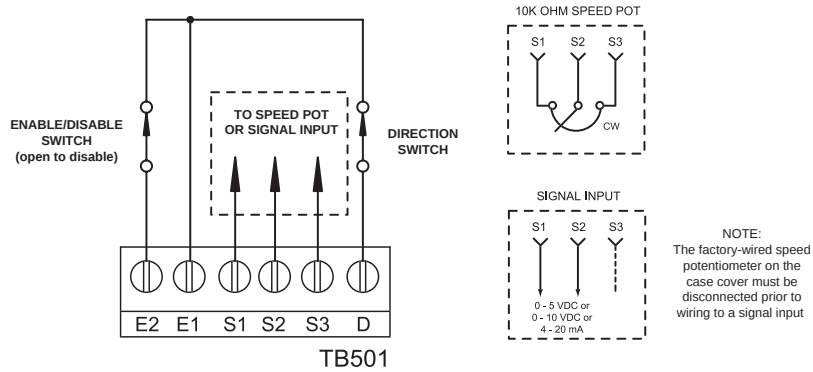
NOTE: The two shorter screws (#6 - 32 x 2 1/2) on the front case are used at hole locations 5 & 6.

2. Remove the five (5) phillips screws on the bottom plate.

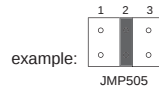
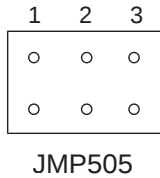
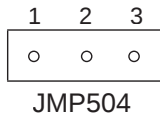
NOTE: DO NOT REMOVE the three (3) screws securing the bottom plate to the heatsink.

CONNECTIONS

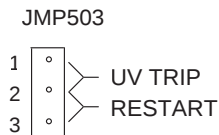
STEP #1-skip this step if provided FWD/OFF/REV and speed potentiometer will be used. Otherwise disconnect factory-wired connections from the FWD/OFF/REV switch and speed potentiometer. Connect the enable/disable switch, direction switch, and speed potentiometer or signal input to TB501 on the TOP board using 20 - 24 AWG wire as shown below.



STEP #2
Configure jumpers JMP504 and JMP505 on the top board for the appropriate signal input.



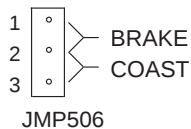
STEP #3
Configure jumpers JMP503 on the bottom board and JMP506 on the top board.



JMP503 (on bottom board)
Pins 1 & 2 to Trip
Pins 2 & 3 to Restart

TRIP: Drive has a low voltage fault & must be manually re-enabled to restart.

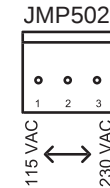
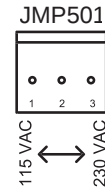
RESTART: Drive has a low voltage fault & will momentarily stop then auto-restart when input voltage returns to minimum level.



JMP506 (on top board)
Pins 1 & 2 to Brake
Pins 2 & 3 to Coast

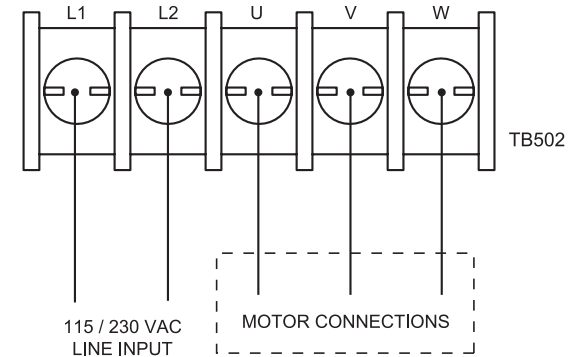
STEP #4

Configure jumpers JMP501 and JMP502 on the bottom board for 115 or 230 VAC Power Input.



STEP #5

Connect motor leads of a 3-phase motor to U, V, and W (TB502 on BOTTOM board) using 14 - 16 AWG wire as shown in the figure below.

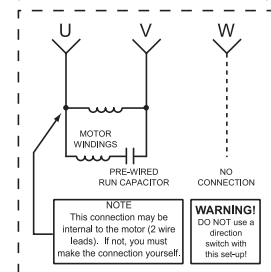


STEP #6

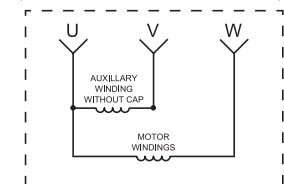
Connect 115 or 230 VAC power input using 12 AWG wire.

NOTE: LEESON strongly recommends installing an emergency stop switch on both the L1 and L2 inputs.

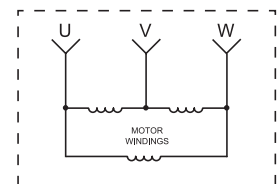
SINGLE-PHASE OPERATION
(motor with pre-wired capacitor)



SINGLE-PHASE OPERATION
(for use with DIRECTION switch)



THREE-PHASE OPERATION



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