

**AF-3061 & AF-3121
INVERTER DRIVE SYSTEMS
A-C ADJUSTABLE-SPEED DRIVE**

INSTALLATION

OPERATION



TROUBLESHOOTING

INVERTER AF3061

ABBREVIATED START-UP PROCEDURE

If any difficulties are encountered during start-up and checkout, refer to Section 4 of instruction book for detailed start-up and checkout procedure.

WARNING

ELECTRIC SHOCK CAN CAUSE PERSONAL INJURY OR LOSS OF LIFE. WHETHER THE A-C SUPPLY IS GROUNDED OR NOT, HIGH VOLTAGES TO GROUND WILL BE PRESENT AT MANY POINTS THROUGHOUT THE DRIVE. CHARGED CAPACITORS REQUIRE ONE MINUTE DISCHARGE TIME.

1. Verify that the 3-phase a-c power input to the drive is of the proper value as listed on the equipment data nameplate (-5,+10%).
2. Verify that cables P1 are disconnected and separated from conducting objects, from all 3 Phase Modules. Apply three phase a-c power to the Inverter, "POWER ON" indicator illuminates.

CAUTION

CHECK FOR PROPER AIR FLOW OF THREE PHASE BLOWER MOTOR (IF SUPPLIED). BLOWER ROTATION MUST BE COUNTER-CLOCKWISE LOOKING INTO BLOWER END. IF ROTATION IS INCORRECT, INTERCHANGE ANY TWO A-C SUPPLY LEADS TO BLOWER MOTOR.

3. Press the Inverter "START" pushbutton; "INVERTER ON" indicator illuminates (if supplied). "RESET" indicator (if supplied) should not be illuminated.
4. With the "Test" card in test socket "B" and the oscilloscope connected to "Read" apply a 10% to 20% speed reference command and verify that firing signals are present on 1B through 12B selector positions. Scope settings are: 5v/cm and 5 milli-sec/cm.
5. Press "INVERTER STOP/RESET" pushbutton. "INVERTER ON" indicator extinguishes.
6. Switch off or disconnect three phase input power to Inverter unit, "POWER ON" indicator extinguishes. Check that capacitors have discharged.
7. Connect P1 cables on all three phase modules.
8. Set "Speed Control" potentiometer to zero.
9. Apply three phase a-c power to the Inverter Unit. Verify that the "POWER ON" indicator is illuminated.
10. Press the Inverter "START" pushbutton; "INVERTER ON" indicator illuminates (if supplied).
11. Increase the "Speed Control" potentiometer until motor base speed is reached.