

- NOTES: 8 TNS1

 1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURED.
 2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
 3. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
 4. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH OPERATION. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, CONNECT WIRE 1E TO IGN-INDUCER-L2. ALSO, USE PLUG PPF-IND1 IN PLACE OF PPF-IND2. WIRE 48A, PLUG PPF-IND2, TNS2, AND TNS2'S WIRES ARE NOT PRESENT ON A 208-230V/60HZ/3PH UNIT.
 5. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH OPERATION. WHEN 230V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 FROM TNS1-460V TO TNS1-230V. ALSO, CONNECT WIRE 1E TO IGN-INDUCER-L2. ALSO, USE PLUG PPF-IND1 IN PLACE OF PPF-IND2. WIRE 48A, PLUG PPF-IND2, TNS2, AND TNS2'S WIRES ARE NOT PRESENT ON A 208-230V/60HZ/3PH UNIT.
 6. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH OPERATION. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 FROM TNS1-460V TO TNS1-575V. ALSO, REMOVE WIRE TNS2-PRI-BU FROM CC1-L2 AND CONNECT WIRE TNS2-PRI-BK TO CC1-L2.
 7. RPM INDICATION 0-10VDC ACROSS VT AND COM. SEE IDM RPM INDICATION TABLE.
 8. CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS HEAT OPERATION. WHEN SINGLE-STAGE GAS HEAT OPERATION IS REQUIRED, WIRE 21A IS NOT CONNECTED TO IGN. WIRE IND-PR IS NOT PRESENT ON A SINGLE-STAGE GAS HEAT UNIT.
 9. CCH2 LEADS ARE BLACK WITH BROWN TAPE WRAPPED AROUND THE END OF EACH LEAD.
 10. PLUG PPM-RT IS NOT CONNECTED TO ANYTHING. IT IS ONLY USED FOR FACTORY RUNTEST HOOKUP.
 11. IF ECM BOARD CONTROLS ARE USED THEN MMC CONNECTIONS ARE NOT MADE AND VICE VERSA. BOTH SETUPS ARE POSSIBLE AND DEPEND ON BOARD AVAILABILITY.
 12. TO INCREASE/DECREASE VOLTAGE/RPMS (SEE IDM RPM INDICATION TABLE):
 - A. PUSH AND HOLD THE SET BUTTON FOR 3 SEC. BOARD WILL DISPLAY MOTOR 1 PARAMETER NAME: HI 1.
 - B. SLOW PUSH SET AGAIN TO DISPLAY THE PARAMETER'S CURRENT VALUE = 7.50 VOLTS.
 - C. PUSH ON + OR - BUTTON TO ADJUST PARAMETER TO DESIRED VALUE = XXX VOLTS.
 - D. PUSH AND HOLD SET BUTTON FOR 3 SEC TO "SAVE" THE VALUE. AFTER SAVE IS COMPLETE, HI 1 WILL SHOW AGAIN.
 - E. AFTER THE VOLTAGE HI 1 IS SUCCESSFULLY CHANGED, THE DISPLAY SEQUENCE WILL BE:
 MTR 1 --> XXX --> MTR2 --> 0.00 --> FST1 --> ON --> FST2 --> ON/OFF --> EhEn --> ON/OFF
 AND THE MOTOR WILL RAMP UP OR DOWN TO ADJUST TO THE INPUT SIGNAL.

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.

FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

