

INCOMING POWER (SEE NOTE A)

24VDC PS
208/230V UNITS ONLY

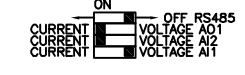
MAIN CONTROL PCB	
1	+10V REFERENCE OUTPUT
2	AI-1+ ANALOG INPUT VOLTAGE (RANGE 0-10 VDC)
3	Vin ANALOG INPUT COMMON
4	AI-2+ ANALOG INPUT CURRENT (RANGE 4-20mA)
5	AI-2- ANALOG INPUT COMMON
6	24Vout CONTROL VOLTAGE OUTPUT
7	GND I/O GROUND
8	DIN1 START/STOP
9	DIN2 EXTERNAL FAULT
10	DIN3 RUN PERMISSIVE IP INTERLOCK
11	CMA DIN1-DIN6 COMMON
12	24Vout CONTROL VOLTAGE OUTPUT
13	GND I/O GROUND
14	DIN4 SPEED SELECT (PROGRAMMABLE 0-100%)
15	DIN5 FIRE MODE
16	DIN6 FORCE BYPASS
17	CMB DIN4-DIN6 COMMON
18	AO-1+ OUTPUT FREQUENCY
19	AO-1- ANALOG OUTPUT
30	24Vin 24VDC AUX INPUT VOLTAGE
A	DATA- RS485 DATA-
B	DATA+ RS485 DATA+

RELAY BOARD 1 STD SLOT B	
21	RO1 BYPASS RUN
22	RO2 DRIVE RUN
23	RO3 DRIVE FAULT

SLOT B HAS RELAY BOARD 1 AS STANDARD RELAY BOARD 2 CAN BE SUPPLIED AS OPTION L4 PILOT LIGHT CANNOT BE USED WITH RELAY BOARD 2

TO 24V CONTROL CIRCUIT-ALL FACTORY CONNECTIONS

- NOTES:
- 1 ENCLOSURE AND MOTOR(S) MUST BE GROUNDED. SEE INSTRUCTION MANUAL.
 - 2 JUMPER IS FACTORY INSTALLED TO ENABLE START PERMISSIVE. CAN BE REPLACED WITH N/C CONTACT.
 - 3 CLOSE TERMINALS 6 TO 8 OR 8 TO 12 TO START IN AUTO MODE - SEE MANUAL
 - 4 RELAYS SHOWN IN DE-ENERGIZED STATE.
 - 5 WHEN PSG60F/PSG120F IS SUPPLIED, L3 WILL BE WIRED TO 1L3.
 - 6 ELECTRIC INTERLOCK BY VFD SOFTWARE
 - 7 DO NOT MAKE ANY CONNECTIONS TO DC+,R+,R- TERMINALS, THESE TERMINALS ARE USED FOR OPTIONAL DYNAMIC BRAKING
 - 8 ALTERNATE CONTROL PCB DIP SWITCH CONFIG SHOWN BELOW



OPTION CARDS FOR SLOTS D & E CAN BE SUPPLIED WITH THE DRIVE OR AS A FIELD OPTION. ONLY TWO SLOTS ARE AVAILABLE (SEE NOTE B)

<p>OPTC4 SLOT D OR E</p> <p>21 A1 DATA C4 = OPTC4: Lon works</p> <p>22 A2 DATA See Option Manual</p> <p>23 OSIELD SHIELD</p>	<p>OPTB1 SLOT D OR E</p> <p>6 DI or DO, 1 ext +24V DC/EXT +24V DC Programmable</p> <p>See Option Manual</p>	<p>OPTB5 SLOT D OR E</p> <p>3 Relay Dry Contact</p> <p>See Option Manual</p>
<p>OPTB2 SLOT D OR E</p> <p>1 RO (N/C/NO), 1 RO (NO), 1 Therm</p> <p>See Option Manual</p>	<p>OPTB9 SLOT D OR E</p> <p>1 RO (NO), 5 DI 42-240V AC Input</p> <p>See Option Manual</p>	<p>OPTB4 SLOT D OR E</p> <p>1 AI (mA isolated), 2 AO (mA isolated)</p> <p>See Option Manual</p>
<p>OPTBF SLOT D OR E</p> <p>Expander IO - 1*AO, 1*DO, 1*RO</p> <p>See Option Manual</p>		

- NOTE A: INCOMING POWER CONNECTION:**
 RUN CABLING IN SEPARATE METAL CONDUIT OR WIRE TRAY. DO NOT RUN WITH CONTROL WIRING OR MOTOR CABLES. CABLES TO BE SIZED PER NEC. PROVIDE LOW IMPEDANCE GROUND CONNECTION TO DRIVE CHASSIS. DO NOT CONNECT TO B+, B- TERMINALS. THESE TERMINALS ARE USED FOR EXTERNAL BRAKING IF REQUIRED.
- NOTE B: I/O CONNECTION:**
 RUN 110VAC AND 24VDC CONTROL WIRING IN SEPARATE CONDUIT. COMMUNICATION WIRE TO BE SHIELDED.. KEYPAD CABLE MUST BE LESS THEN 20 FEET.
- NOTE C: MOTOR CONNECTION:**
 RUN MOTOR CABLES IN SEPARATE METAL CONDUIT OR WIRE TRAY. DO NOT RUN WITH CONTROL WIRING OR POWER CABLES. CABLES TO BE SIZED PER NEC. PROVIDE LOW IMPEDANCE GROUND CONNECTION BETWEEN MOTOR AND DRIVE.

<p>REMOVED CONTACTOR INTERLOCK AND UPDATED CONTROL DIP SWITCHES ADDED NOTE 8</p>		DR	DATE	TITLE	
		PJF	10/15/12	HMAX FRAME SIZES 4-7 INTELLIPASS	
		CKD	DATE		
		RJS	10/15/12		
		APPD	DATE	PRODUCT	DWG TYPE
		PJF	10/15/12	HMAX	SCHEMATIC
THIRD ANGLE PROJECTION	DWG. SIZE B	FILE TYPE AutoCAD	.DWG FILENAME 285447	ECO NUMBER 039393	REVISION 003
				G.O. NUMBER	DWG NO. 285447-0001
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