



MAIN CONTROL PCB

1	+10V	REFERENCE OUTPUT
2	AI-1+	ANALOG INPUT VOLTAGE (RANGE 0-10 VDC)
3	VI	ANALOG INPUT COMMON
4	AI-2+	ANALOG INPUT CURRENT (RANGE 4-20mA)
5	AI-2-	ANALOG INPUT CURRENT
6	24Vout	CONTROL VOLTAGE OUTPUT
7	GND	I/O GROUND
8	DNI1	START/STOP
9	DNI2	EXTERNAL FAULT
10	DNI3	RUN PERMISSIVE IP INTERLOCK
11	CA	DNI1-DNI3 COMMON
12	24Vout	CONTROL VOLTAGE OUTPUT
13	GND	I/O GROUND
14	DNI4	SPEED SELECT (PROGRAMMABLE 0-100%)
15	DNI5	FIRE MODE
16	DNI6	FORCE BYPASS
17	CMB	DNI4-DNI6 COMMON
18	AO-1+	OUTPUT FREQUENCY
19	AO-1-	ANALOG OUTPUT
20	24VIn	24VDC AUX INPUT VOLTAGE
A	DATA-	RS485 DATA-
B	DATA+	RS485 DATA+

RELAY BOARD 1 STD. SLOT B

22	RO1	BYPASS RUN
23	RO2	DRIVE RUN
24	RO3	DRIVE FAULT

RELAY BOARD 2 STD. SLOT B

22	RO1	BYPASS RUN
23	RO2	DRIVE RUN
24	RO3	DRIVE FAULT

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)

OPTB1	SLOT D OR E	6 DI or DO, 1 ext +24V/DOEXT +24V DC Programmable See Option Manual
OPTB2	SLOT D OR E	1 RO (NO), 1 Therm See Option Manual
OPTB3	SLOT D OR E	3 Relay Dry Contact See Option Manual
OPTB4	SLOT D OR E	1 RO (NO), 1 RO (NO), 1 Therm See Option Manual
OPTB5	SLOT D OR E	1 RO (NO), 5 DI/2-240V/AC Input See Option Manual
OPTB6	SLOT D OR E	1 AI (no isolated), 2 AO (no isolated) See Option Manual
OPTB7	SLOT D OR E	1 AO (no isolated), 1 AO (no isolated), 1 RO See Option Manual
OPTB8	SLOT D OR E	1 AO (no isolated), 1 AO (no isolated), 1 RO See Option Manual

OPTIONAL AUX CONTACTS

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL BYPASS CONTACTOR

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL DRIVE ISOLATION SWITCH

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL ENCL. FAN

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL 24VDC PS

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL 100W SPACE HEATER

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL 12V ENCL. FAN

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL 24VDC PS

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL 100W SPACE HEATER

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL 12V ENCL. FAN

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL 24VDC PS

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL 100W SPACE HEATER

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

OPTIONAL 12V ENCL. FAN

N.C.	[53][54]
0	[61][62]
N.C.	[63][64]
B	[65][66]
N.C.	[67][68]

NOTES:

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