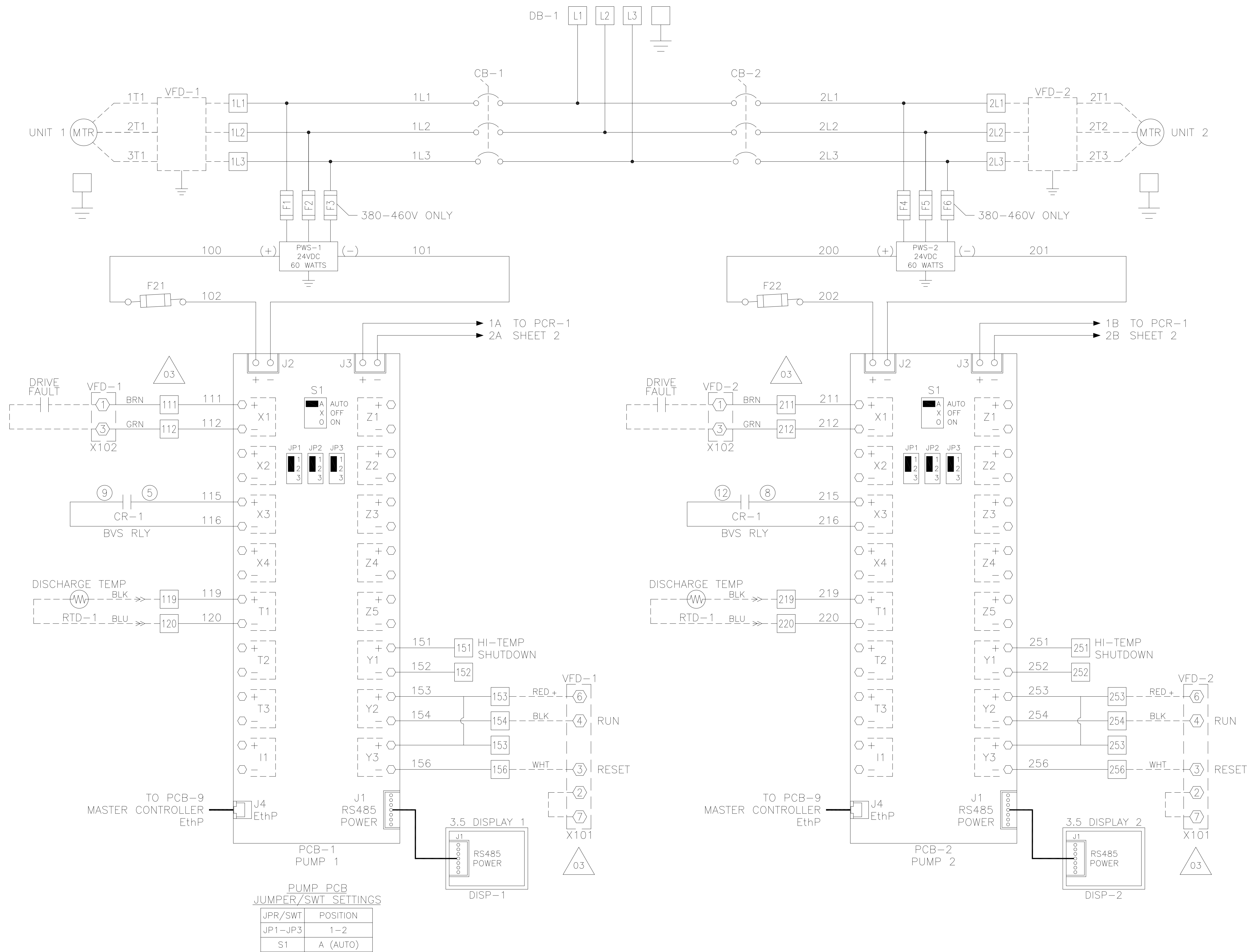


Notes:

1. MAIN DISCONNECT PROVIDED BY OTHERS
2. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.
3. - - - - - INDICATES FIELD WIRING OUTSIDE OF BOX.
4. 10HP UNITS HAVE VFD ON VACUUM PUMP.
5. AUXILIARY CONTACTS LIST ON SHEET 2



DUPLIX SYSTEM FULL LOAD AMPERES

SYSTEM HP	380 V	460 V
10 HP	37.0 AMPS	30.6 AMPS

INDIVIDUAL FULL LOAD AMPERES

SYSTEM HP	380 V	460 V
10 HP	18.2 AMPS	15.0 AMPS

FUSE SELECTION CHART
(MAX FUSE SIZES SHOWN)

FUSES	380 V	460 V
F1-F6	6 AMP	6 AMP
F21/F22	2.5 AMP	2.5 AMP
F33	1.0 AMP	1.0 AMP

F1-F6 ARE LITTELFUSE KLDK 600V TYPE
F21/F22/F33 ARE LITTELFUSE 2AG 250V TYPE

DEFAULT VACUUM SETTINGS

ALTITUDE	PUMP SEQUENCE	"HgV
0'-1000'	LEAD CUT-OFF	22"
1001'-2000'	LEAD CUT-OFF	21"
2001'-3000'	LEAD CUT-OFF	20"
3001'-4000'	LEAD CUT-OFF	19"
>4000'	CONSULT FACTORY	
ALL	LAG CUT-ON	16"

BACKUP VACUUM SWITCH

BVS-1	CUT-ON	15"
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RELIEF VALVE SETTINGS ("HgV)

ALTITUDE	10HP	O2 ASSURED PUMPS
0'-1000'	24	23
1001'-2000'	23	22
2001'-3000'	22	21
3001'-4000'	21	20
>4000'	CONSULT FACTORY	

AUTO OPERATION:

THE MASTER PCB WILL CONTROL THE ADAPTIVE FUNCTIONALITY OF THE SYSTEM. THE ADAPTIVE CONTROL CAUSES THE VACUUM PUMPS TO START BASED ON THE VACUUM LEVEL. THE SIGNAL TO STOP IS BASED ON THE LENGTH OF TIME THE VACUUM SYSTEM WAS NOT RUNNING. THE MASTER PCB DETERMINES THE MINIMUM RUN TIME OF A PUMP ONCE IT HAS STOPPED. IF THE VACUUM SYSTEM IS STOPPED FOR A LONG PERIOD OF TIME, THE MINIMUM RUN TIME AFTER A RESTART WILL BE SHORT. IF THE VACUUM SYSTEM IS NOT RUNNING FOR A SHORT PERIOD OF TIME, THE MINIMUM RUN TIME WILL BE LONGER. SEE O&M MANUAL FOR SPECIFIC VARIATIONS. IF DURING OPERATION, THE SECOND VACUUM PUMP IS REQUIRED TO TURN ON, THE MASTER CONTROLLER WILL SET A LAG ALARM CONDITION.

PUMP PCB S1 POSITION:

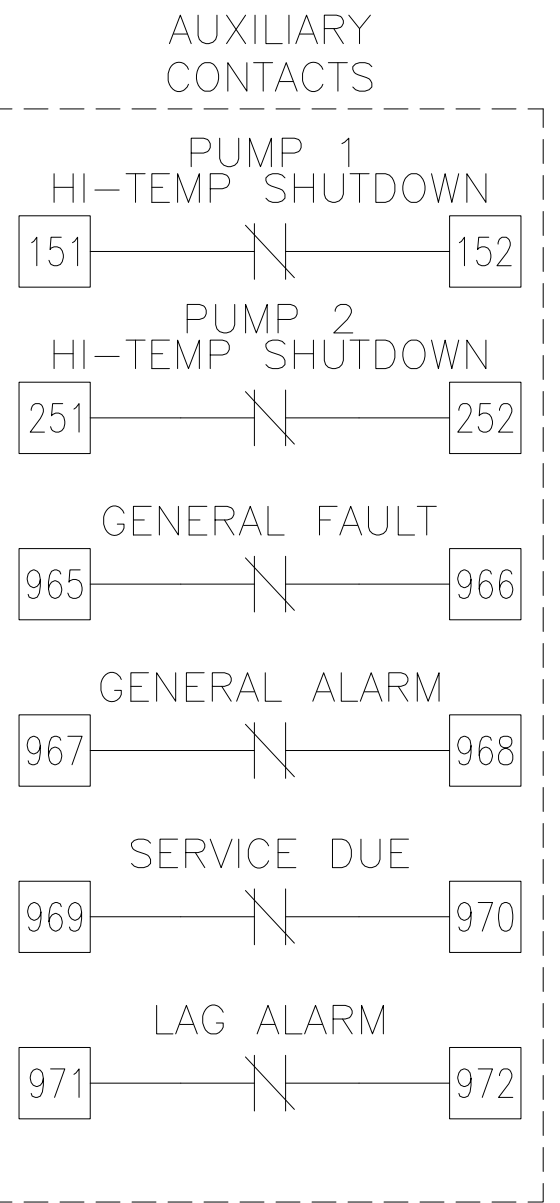
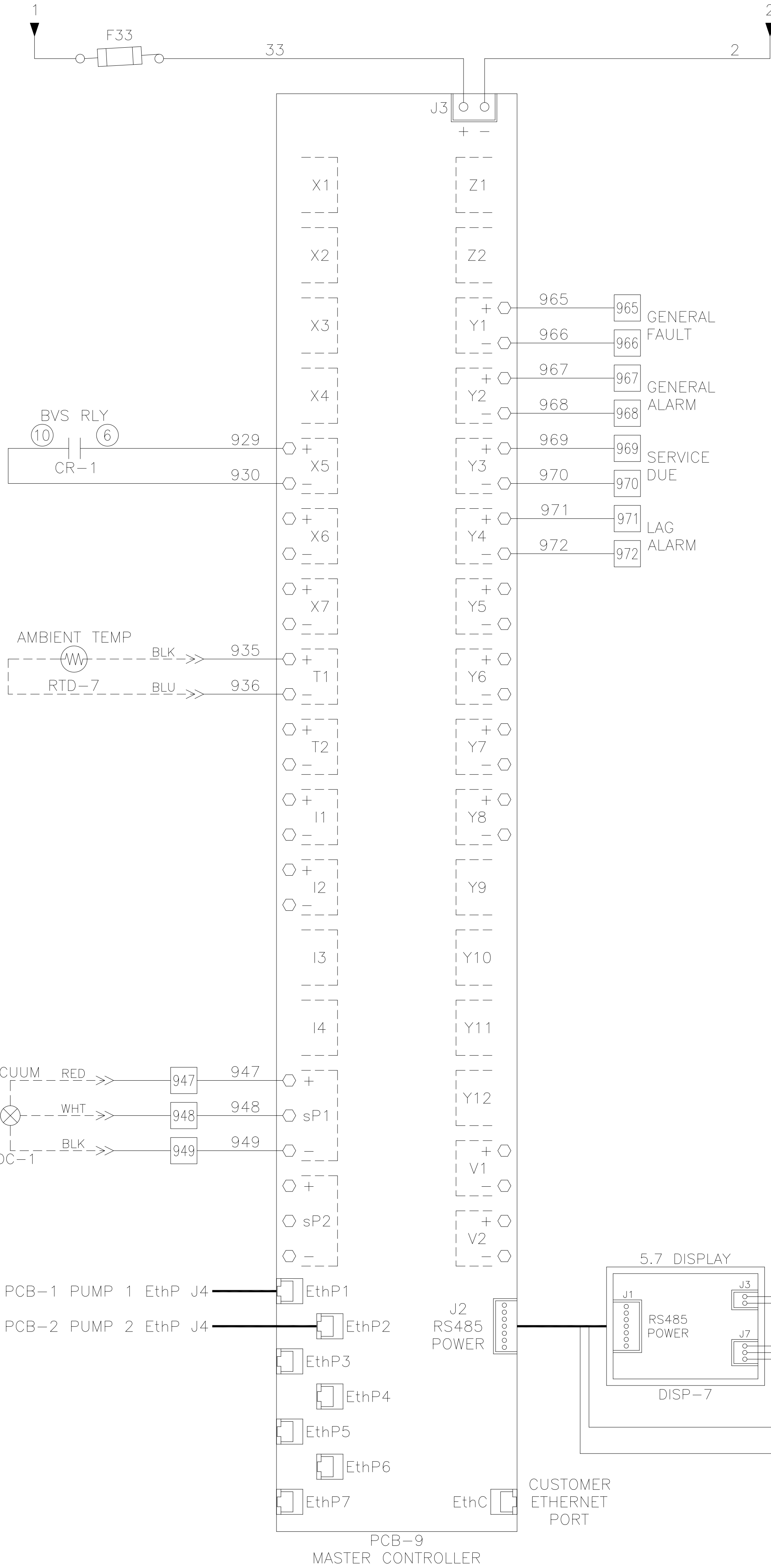
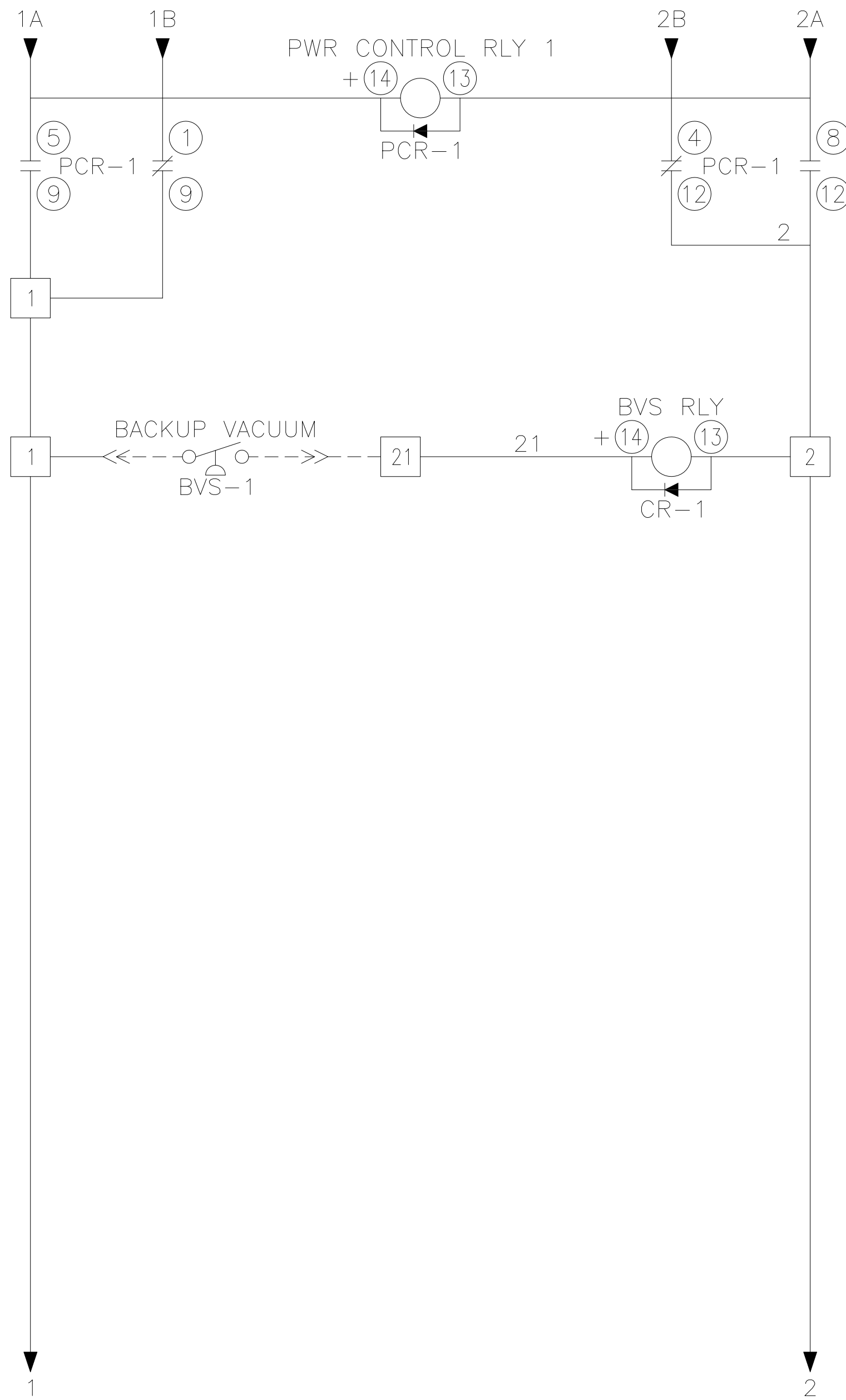
POSITION (A) - AUTO (DEFAULT):
THE PUMP WILL OPERATE NORMALLY AS DESCRIBED ABOVE IN "AUTO OPERATION".
POSITION (X) - OFF:
THE PUMP IS DISABLED FROM RUNNING.
POSITION (O) - MANUAL:
THE PUMP WILL RUN CONTINUOUSLY.

PCB FAULT:
IF A PUMP PCB ETHERNET FAULT OR A TRANSDUCER FAULT OCCURS, THE PUMP PCB WILL AUTOMATICALLY SWITCH TO MANUAL MODE. VACUUM PUMPS WILL START WHEN BVS-1 (BACKUP VACUUM SWITCH) CLOSSES AND STOP WHEN THE RUN TIMER EXPIRES.

Revised: JAH	Date: 05/25/10	Drawn: JAH	Date: 01/20/10
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Description: DWG WIRING CONTROL DX CLAW 10HP 380-460V/3/50-60		Part Number: 4107 8517 25 DN: USN100267 Rev: 03	
Sheet 1 of 2		DO NOT SCALE THIS DOCUMENT	

Notes:

1. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.



NOTE:
AUXILIARY CONTACTS
151-152, 251-252, &
965-972 ARE "CLASS 1
CONTROL CIRCUITS. USE
CLASS 1 CONDUCTORS."

AUX CONTACTS ARE RATED
0.7A_{dc}/0.7A_{rms} @ 24V
MAX. UNLESS OTHERWISE
NOTED.

AUX CONTACTS CLOSED
DURING NORMAL
OPERATION.

Revised: JAH	Date: 05/25/10	Drawn: JAH	Date: 01/20/10
Description: DWG WIRING CONTROL DX CLAW 10HP 380-460V/3/50-60		Part Number: 4107 8517 25 DN: USN100267 Rev: 03 Sheet 2 of 2	
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