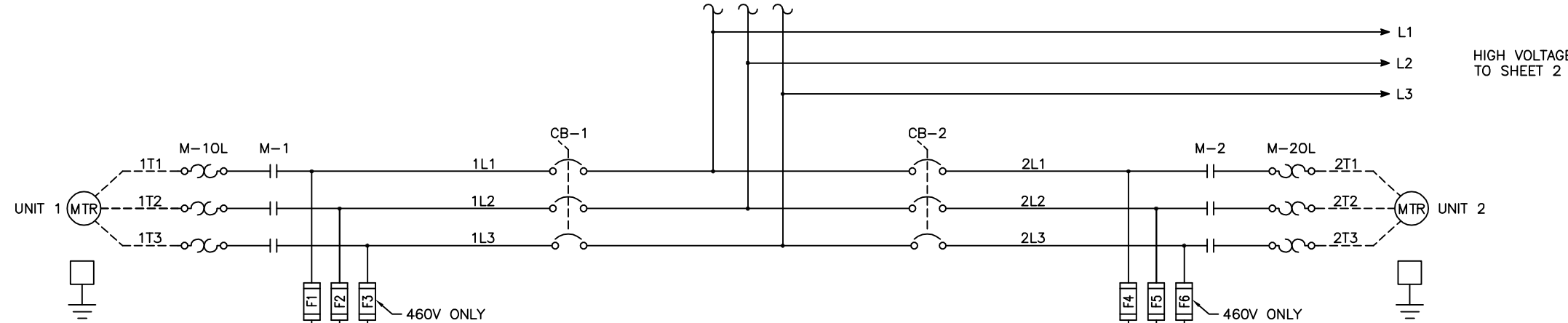
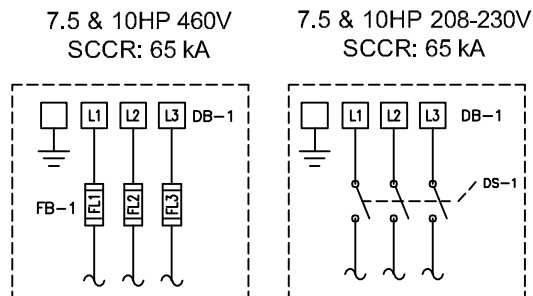
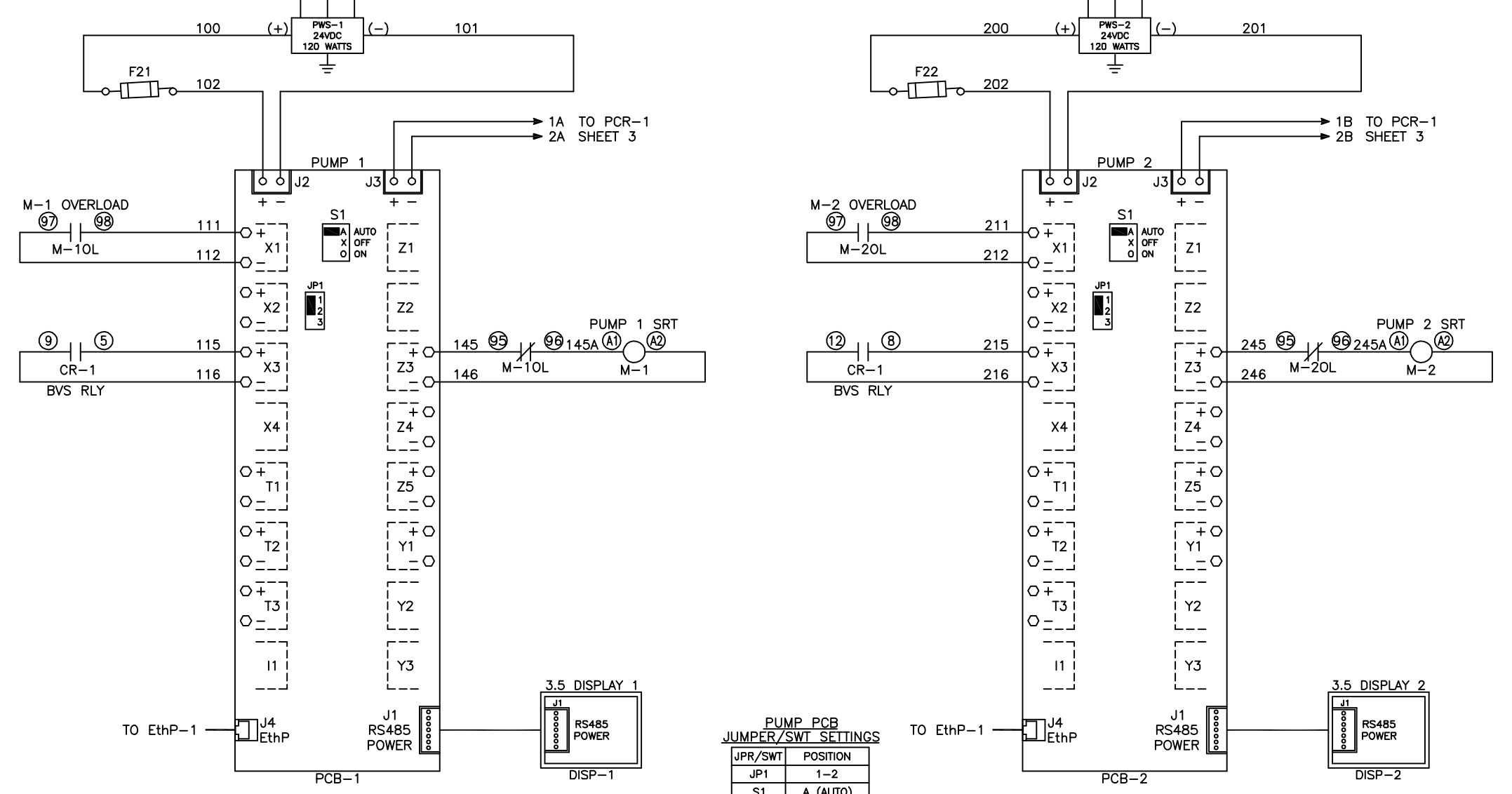


Notes:

1. MAIN DISCONNECT PROVIDED BY OTHER.
2. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.
3. - - - - INDICATES FIELD WIRING OUTSIDE OF CABINET.
4. AUXILIARY CONTACTS LIST AND OPERATION NOTES ON SHEET 3.
5. THE AMPACITY OF CONDUCTORS SUPPLYING THE CONTROL PANEL TO BE ROUNDED UP TO THE NEXT SIZE LARGER STANDARD WIRE GAUGE.
6. MOP VALUES TO BE ROUNDED DOWN TO THE NEAREST STANDARD RATING OF THE OVERCURRENT PROTECTION DEVICE.
7. SHORT CIRCUIT CURRENT RATING (SCCR): 65 kA



HIGH VOLTAGE
TO SHEET 2



PUMP PCB JUMPER/SWT SETTINGS

JPR/SWT	POSITION
JP1	1-2
S1	A (AUTO)

MINIMUM CIRCUIT AMPACITY (MCA)

SYSTEM HP	208 V	230 V	460 V
7.5 HP	81.3 AMPS	73.9 AMPS	37.3 AMPS
10 HP	102.7 AMPS	93.4 AMPS	47.0 AMPS

MAXIMUM OVERCURRENT PROTECTION (MOP)

SYSTEM HP	208 V	230 V	460 V
7.5 HP	102.9 AMPS	93.5 AMPS	46.8 AMPS
10 HP	130.9 AMPS	119.0 AMPS	59.5 AMPS

TRIPLEX SYSTEM FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	460 V
7.5 HP	65.1 AMPS	60.7 AMPS	30.6 AMPS
10 HP	87.6 AMPS	79.3 AMPS	39.9 AMPS

INDIVIDUAL FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	460 V
7.5 HP	21.0 AMPS	19.6 AMPS	9.8 AMPS
10 HP	28.5 AMPS	25.8 AMPS	12.9 AMPS

FUSE SELECTION CHART (MAX FUSE SIZES SHOWN)

SYSTEM HP	FUSES	208 V	230 V	460 V
7.5 HP	FL1/FL2/FL3	---	---	40 AMPS
10 HP		---	---	50 AMPS
ALL	F1/F2/F4/ F5/F7/F8	6.0 AMPS	6.0 AMPS	6.0 AMPS
	F3/F6/F9	---	---	6.0 AMPS
	F21/F22/F23	2.5 AMPS	2.5 AMPS	2.5 AMPS
	F33	1.0 AMP	1.0 AMP	1.0 AMP
	F35	0.5 AMP	0.5 AMP	0.5 AMP

FL1/FL2/FL3 ARE LITTELFUSE JTD 600V TYPE
F1-F9 ARE LITTELFUSE KLDL 600V TYPE
F21-F23/F33/F35 ARE LITTELFUSE 2AG 250V TYPE

RELIEF VALVE SETTINGS ("HgV)

ALTITUDE	7.5HP	8.6HP
0-1000'	21.5	23
1001-2000'	20.5	22
2001-3000'	19.5	21
3001-4000'	18.5	20
>4000'	CONSULT FACTORY	

DEFAULT VACUUM SETTINGS ("Hg)

ALTITUDE	LEAD CUT-OFF	LAG CUT-ON	MAXIMUM LIMITS	MINIMUM LIMITS
0-1000'	21	16	25 18	21 16
1001-2000'	20	16	24 18	21 16
2001-3000'	19	16	23 18	21 16
3001-4000'	18	16	22 18	21 16
>4,000'	CONSULT FACTORY			

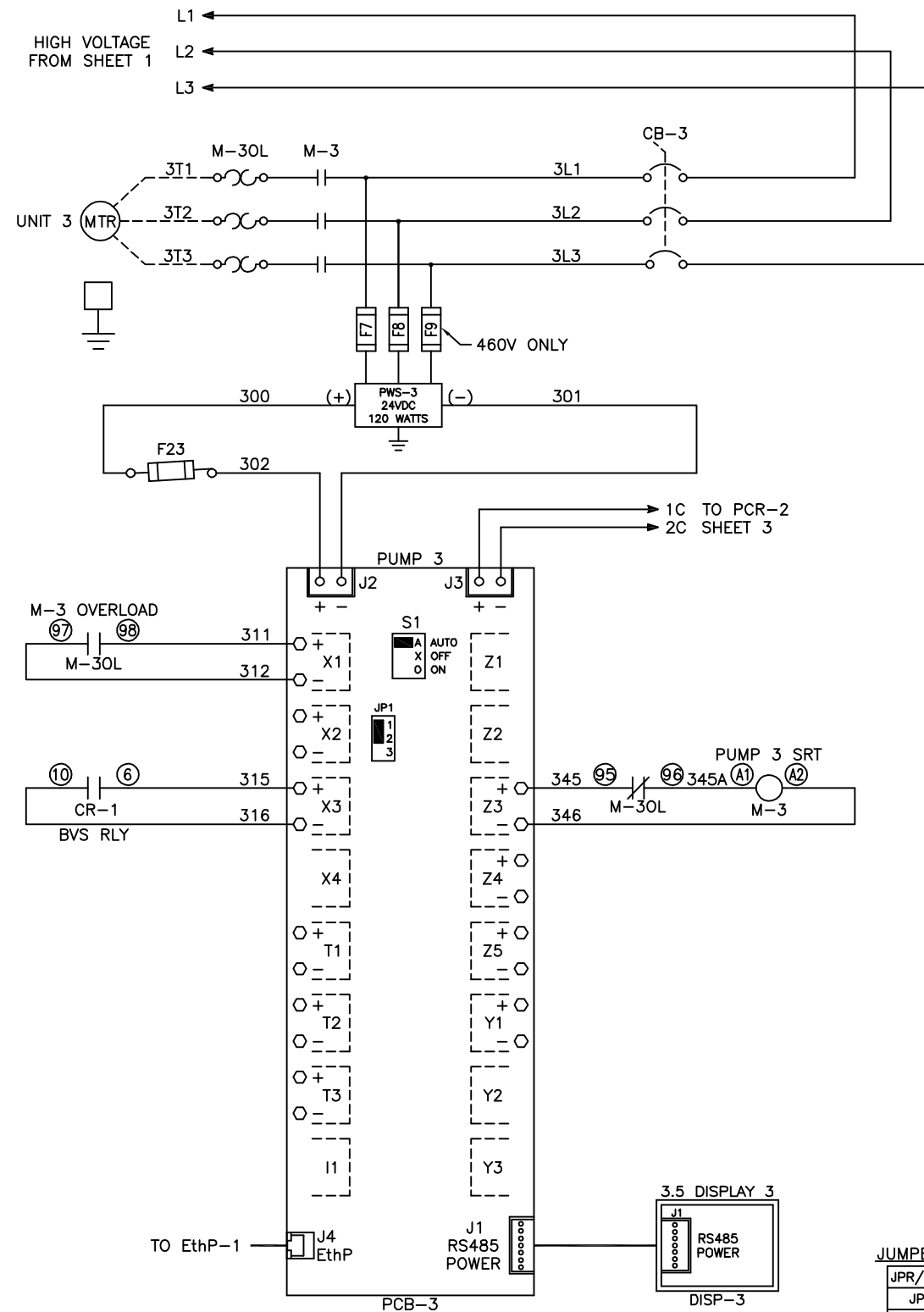
BACKUP VACUUM SWITCH ("Hg)

BVS-1	CUT-ON	15
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Revised:	Date:	Drawn:	MDB	Date:	10/30/18
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Description: DWG WIRING CONTROL TX DRY VAC 7.5-10HP 208-460/3/60, 65kA		Part Number: 4107 8568 41		Scale: NTS	
Sheet 1 of 3		Rev: 00		DO NOT SCALE THIS DOCUMENT	

Notes:

1. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.
2. - - - - - INDICATES FIELD WIRING OUTSIDE OF CABINET.



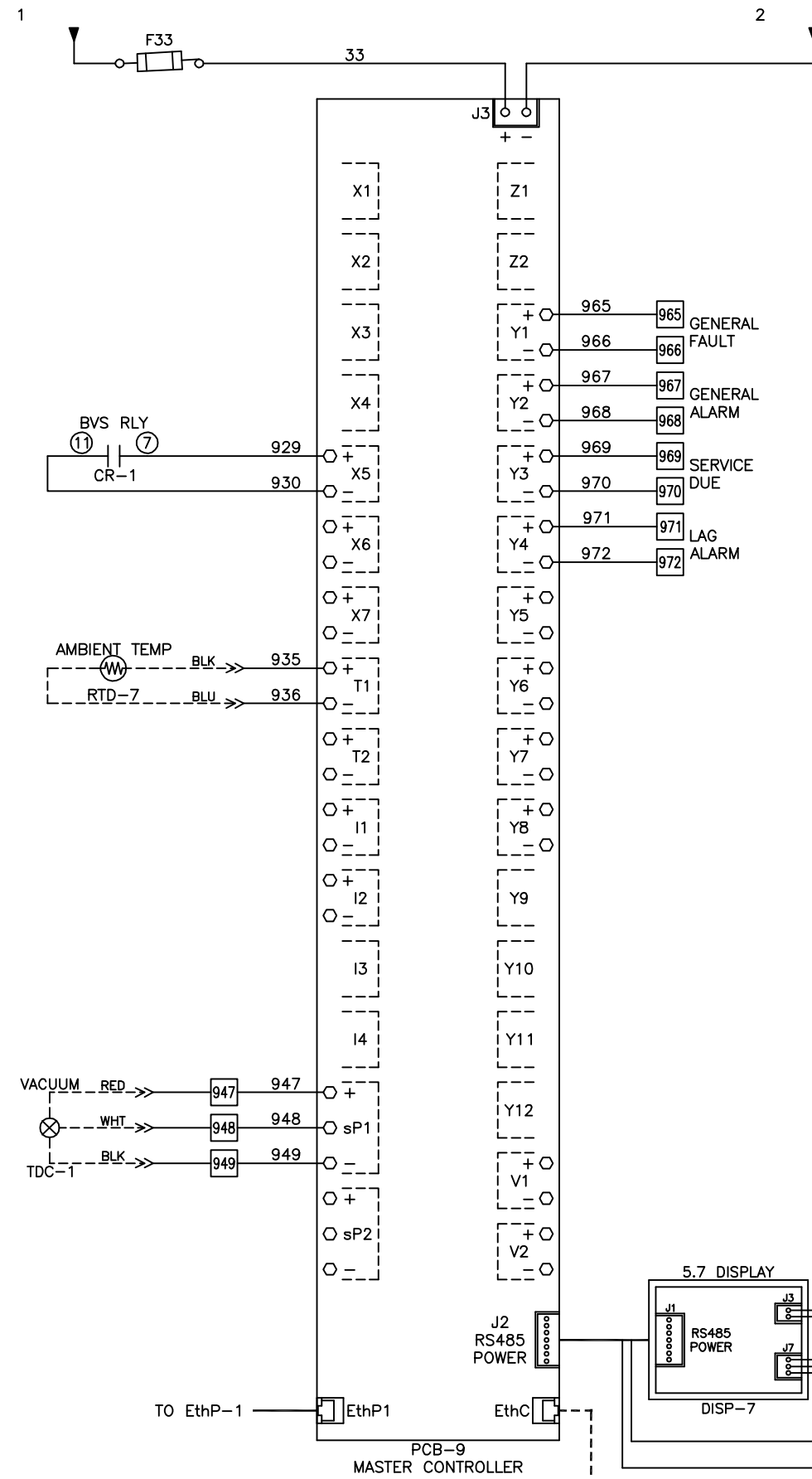
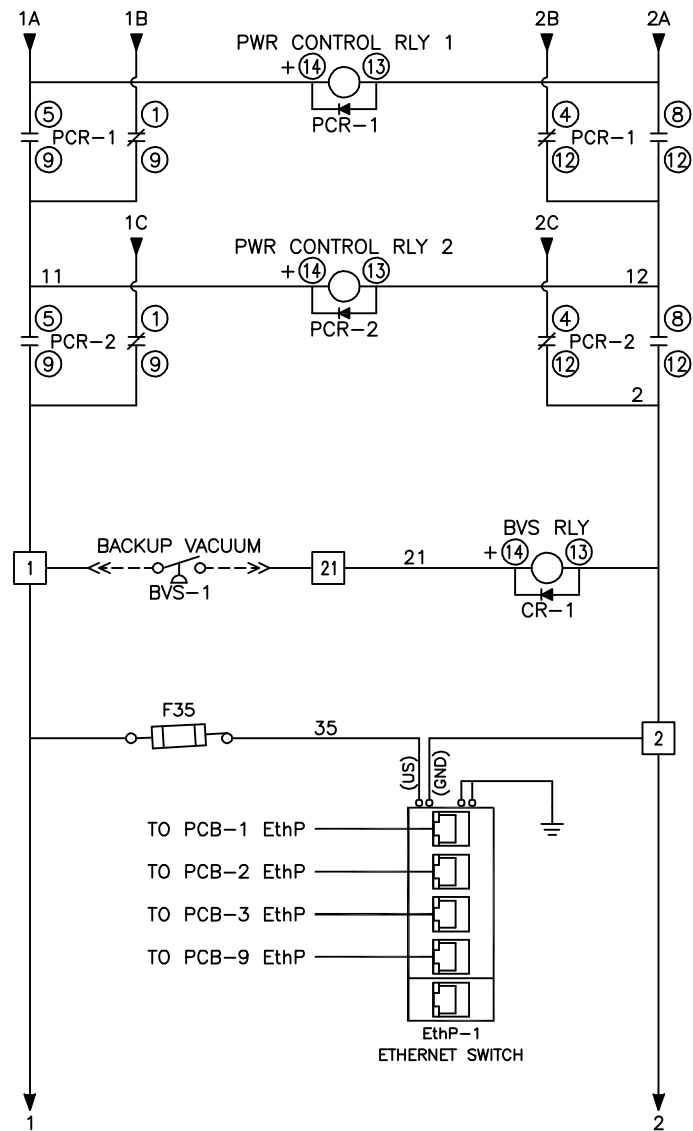
PUMP PCB
JUMPER/SWT SETTINGS

JPR/SWT	POSITION
JP1	1-2
S1	A (AUTO)

Revised:	Date:	Drawn:	MDB	Date:	10/30/18
		<small>This drawing and the information contained therein remain the property of Beacon Medical and may not be used for other than the purpose for which it is loaned without the express and written permission from Beacon Medical Engineering.</small>		Scale:	NTS
Description: DWG WIRING CONTROL TX DRY VAC 7.5-10HP 208-460/3/60, 65kA			Part Number: 4107 8568 41		
Drawn: HOP 180863		Rec: 00		Sheet 2 of 3 DO NOT SCALE THIS DOCUMENT	

Notes:

1. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.
2. ----- INDICATES FIELD WIRING OUTSIDE OF CABINET.



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 STOPPED FOR A SHORT PERIOD OF TIME, THE MINIMUM RUN TIME WILL BE LONGER. SEE O&M MANUAL FOR SPECIFIC VARIATIONS. IF DURING OPERATION THE THIRD 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:

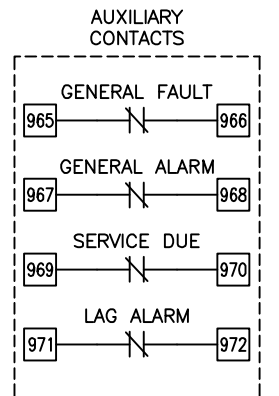
THE PUMP IS DISABLED FROM RUNNING.

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) CLOSES AND STOP WHEN IT OPENS. COMPRESSORS WILL NOT SEQUENCE IN THIS CONDITION AND CAN OPERATE UNTIL THE ETHERNET OR TRANSDUCER FAULT IS REPAIRED.



NOTE:
AUXILIARY CONTACTS 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.

NOTE:
RED WIRE TO GOLD TERMINAL ON LED-1.

Revised	Date	Drawn	MDR	Date	10/20/18
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<p>Scale: NTS</p>			<p>Part Number: 4107 8568 41</p>		
<p>Describe: DWG WIRING CONTROL TX DRY VAC 7.5-10HP 208-460/3/60, 65kA</p>			<p>Rev: 00</p>		
<p>Sheet 3 of 3</p>			<p>DO NOT SCALE THIS DOCUMENT</p>		