

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 ON SHEET 4.
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

MINIMUM CIRCUIT AMPACITY (MCA)

SYSTEM HP	208 V	230 V	380 V	460 V
10 HP	197.8 AMPS	179.7 AMPS	116.3 AMPS	90.6 AMPS
15 HP	294.0 AMPS	267.2 AMPS	172.5 AMPS	134.3 AMPS

MAXIMUM OVERCURRENT PROTECTION (MOP)

SYSTEM HP	208 V	230 V	380 V	460 V
10 HP	223.3 AMPS	203.0 AMPS	130.5 AMPS	101.5 AMPS
15 HP	335.0 AMPS	304.5 AMPS	195.8 AMPS	152.3 AMPS

HEXAPLEX SYSTEM FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380V/50Hz	460 V
10 HP	157.8 AMPS	147.8 AMPS	83.4 AMPS	74.5 AMPS
15 HP	220.2 AMPS	213.8 AMPS	126.0 AMPS	107.5 AMPS

INDIVIDUAL FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380V/50Hz	460 V
10 HP	25.6 AMPS	24.0 AMPS	13.4 AMPS	12.0 AMPS
15 HP	36.0 AMPS	35.0 AMPS	20.5 AMPS	17.5 AMPS

FUSE SELECTION CHART (MAX FUSE SIZES SHOWN)

FUSES	208 V	230 V	380 V	460 V
F1/F2/F4/F5 F7/F8/F10 F11/F13/F14 F16/F17	6.0 AMPS	6.0 AMPS	6.0 AMPS	6.0 AMPS
F3/F6/F9 F12/F15/F18	---	---	6.0 AMPS	6.0 AMPS
F21-F26	4.0 AMPS	4.0 AMPS	4.0 AMPS	4.0 AMPS
F31/F32 F33/F34	1.0 AMP	1.0 AMP	1.0 AMP	1.0 AMP
F35/F36	0.5 AMP	0.5 AMP	0.5 AMP	0.5 AMP

F1-F18 ARE LITTELFUSE KLDL 600V TYPE
F21-F26/F31-F36 ARE LITTELFUSE 2AG 250V TYPE

DEFAULT PUMP PSI SETTINGS

PUMP SEQUENCE	PSI
LEAD CUT-OFF	140
LAG CUT-ON	120

BACKUP PRESSURE SWT SETTINGS

BPS-1 CUT-OFF	140
BPS-1 CUT-ON	105

PUMP/DRYER PCB JUMPER/SWT SETTINGS

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

AUTO OPERATION:

DURING NORMAL OPERATION, THE MASTER PCB WILL SIGNAL THE LEAD COMPRESSOR TO START WHEN THE PRESSURE FALLS BELOW THE SET-POINT FOR THE LEAD PUMP. IF ONE PUMP CAN CARRY THE LOAD, THE PRESSURE WILL RISE TO 140 PSI. THE MASTER PCB WILL THEN SIGNAL THE PUMP PCB TO TURN OFF THE LEAD COMPRESSOR. WHEN THE SYSTEM PRESSURE DROPS AGAIN BELOW THE LEAD SET-POINT, THE MASTER PCB WILL SEQUENCE THE LEAD ROLE TO THE NEXT COMPRESSOR AND IT WILL START. IF ANY LEAD COMPRESSOR RUNS FOR MORE THAN 17 MINUTES AND CANNOT REACH 140 PSI, THE MASTER PCB WILL TURN OFF THE COMPRESSOR THAT IS RUNNING AND SEQUENCE TO THE NEXT COMPRESSOR.

PUMP PCB S1 POSITION:

POSITION (A) - AUTO (DEFAULT):

THE PUMP WILL OPERATE NORMALLY AS DESCRIBED ABOVE IN "AUTO OPERATION".

POSITION (X) - OFF:

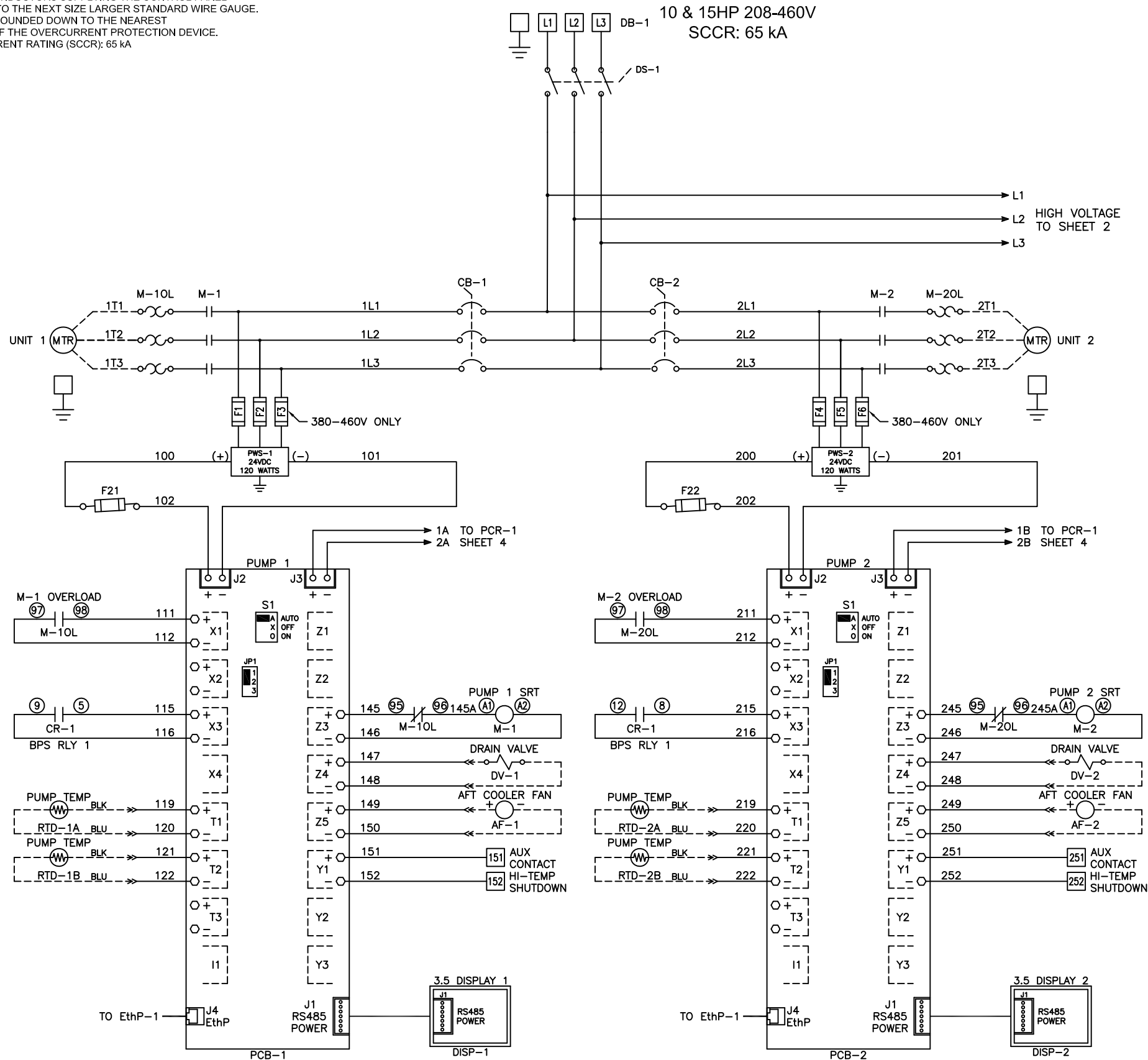
THE PUMP IS DISABLED FROM RUNNING.

POSITION (O) - MANUAL:

THE PUMP WILL START AND STOP ON THE BACK UP PRESSURE SWITCH (BPS-1).

PCB FAULT:

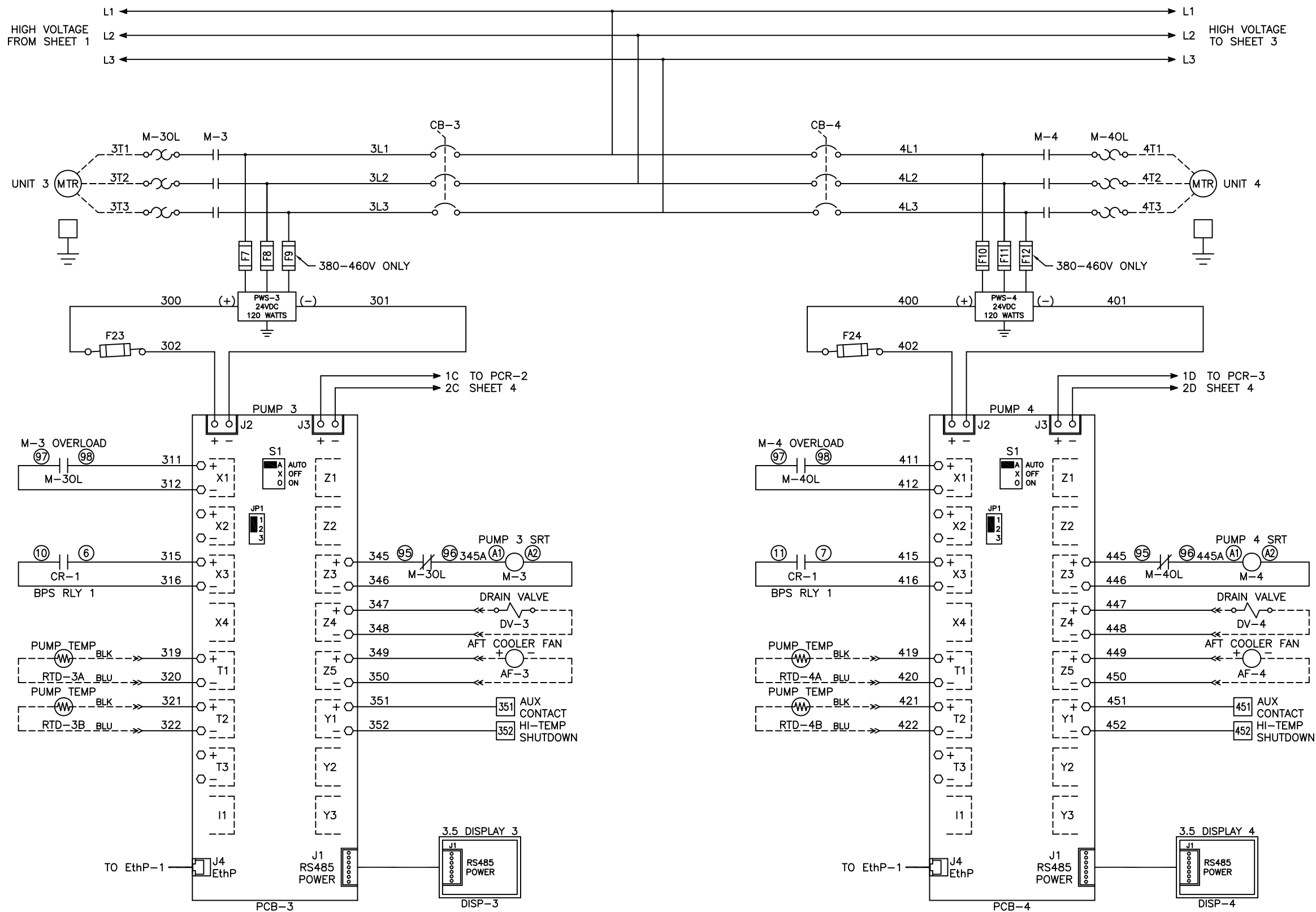
IF A PUMP PCB ETHERNET FAULT OR A TRANSDUCER FAULT OCCURS, THE PUMP PCB WILL AUTOMATICALLY SWITCH TO MANUAL MODE. COMPRESSORS WILL START WHEN BPS-1 (BACKUP PRESSURE SWITCH) CLOSSES AND STOP WHEN IT OPENS. COMPRESSORS WILL NOT SEQUENCE IN THIS CONDITION AND CAN OPERATE UNTIL THE ETHERNET OR TRANSDUCER FAULT IS REPAIRED.



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Description:		Part Number:		Scale:	
DWG WIRING CONTROL HX LAB SCROLL 10-15HP 208-460/3/50-60, 65kA, -40		4107 8569 16		D	
DN: HOP190696		Rev: 00		Sheet 1 of 4	
				DO NOT SCALE THIS DOCUMENT	

Notes:

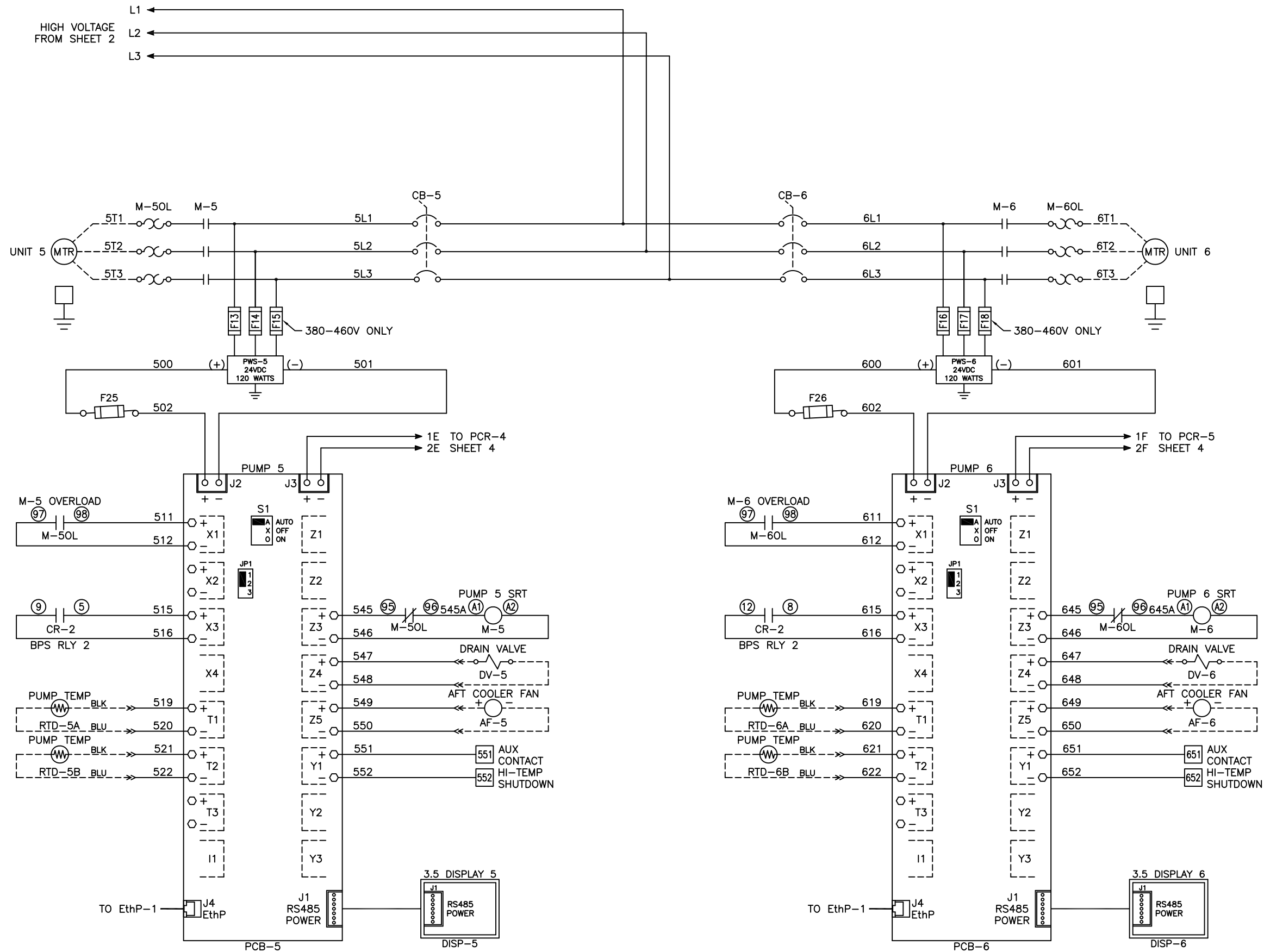
1. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.



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DN: HOP190696		Rev: 00		Sheet 2 of 4 <small>DO NOT SCALE THIS DOCUMENT</small>	

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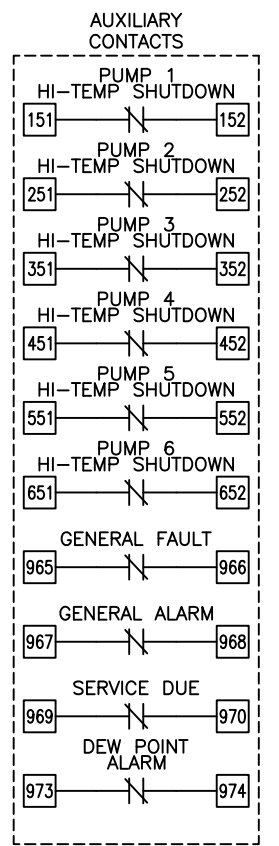
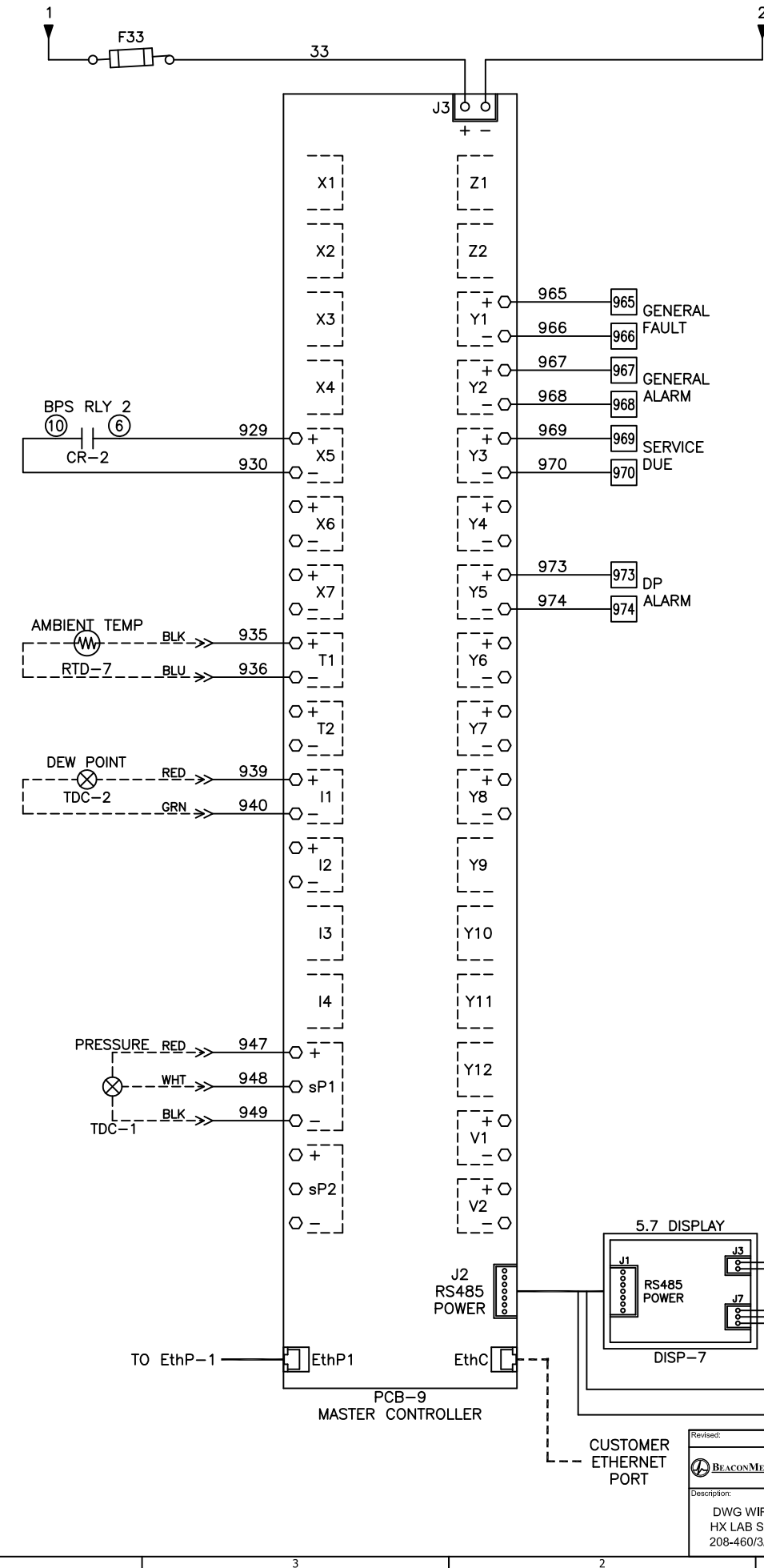
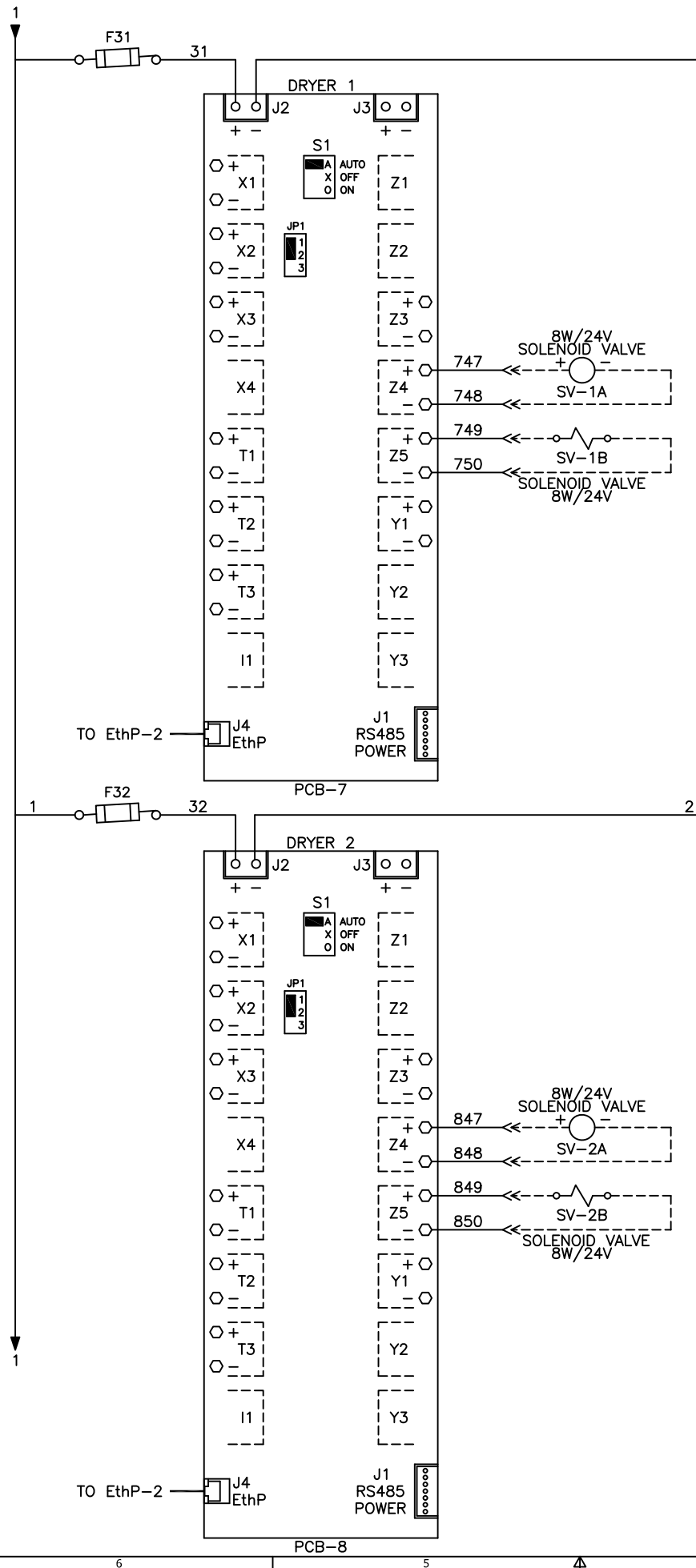
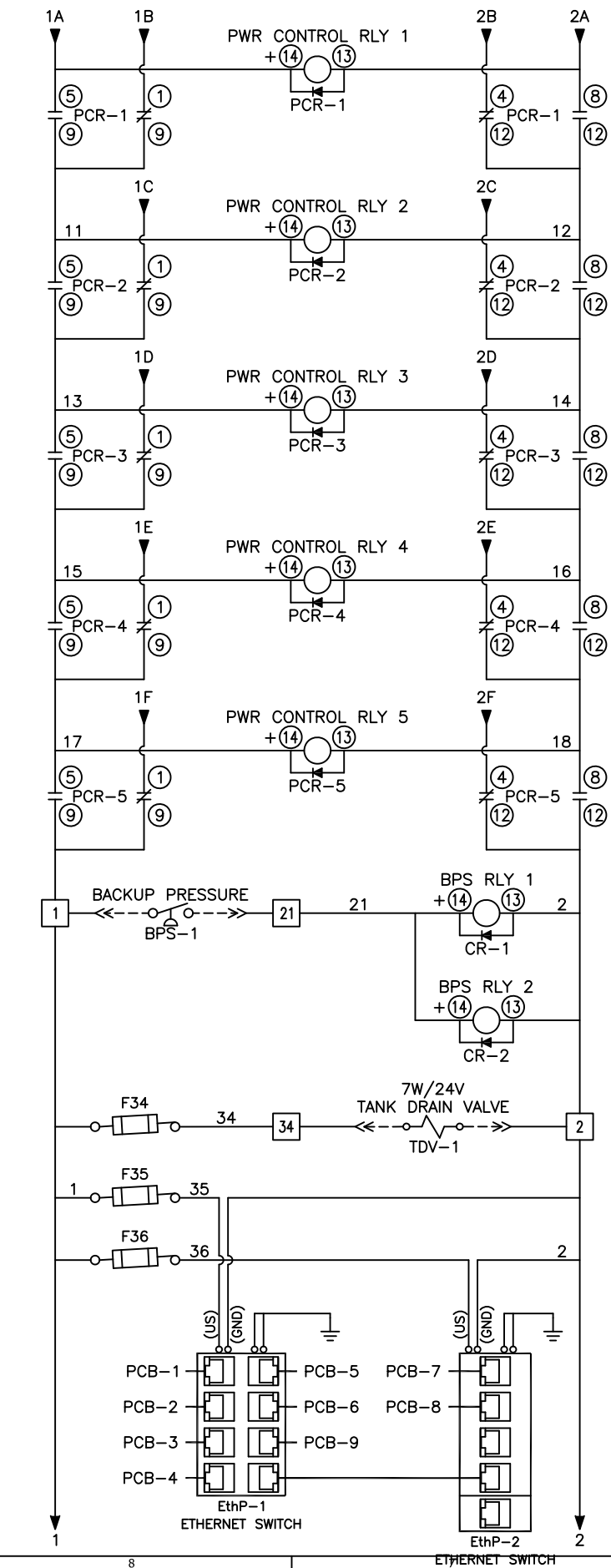
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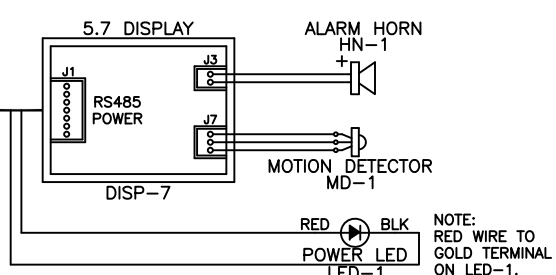
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NOTE:
AUXILIARY CONTACTS 151-152, 251-252, 351-352, 451-452, 551-552, 651-652, 965-970, & 973-974 ARE "CLASS 1 CONTROL CIRCUITS. USE CLASS 1 CONDUCTORS."
AUX CONTACTS ARE RATED 0.7A_{dc}/0.7A_{rms} @ 24V MAX. UNLESS OTHERWISE NOTED.
AUX CONTACTS CLOSED DURING NORMAL OPERATION.



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