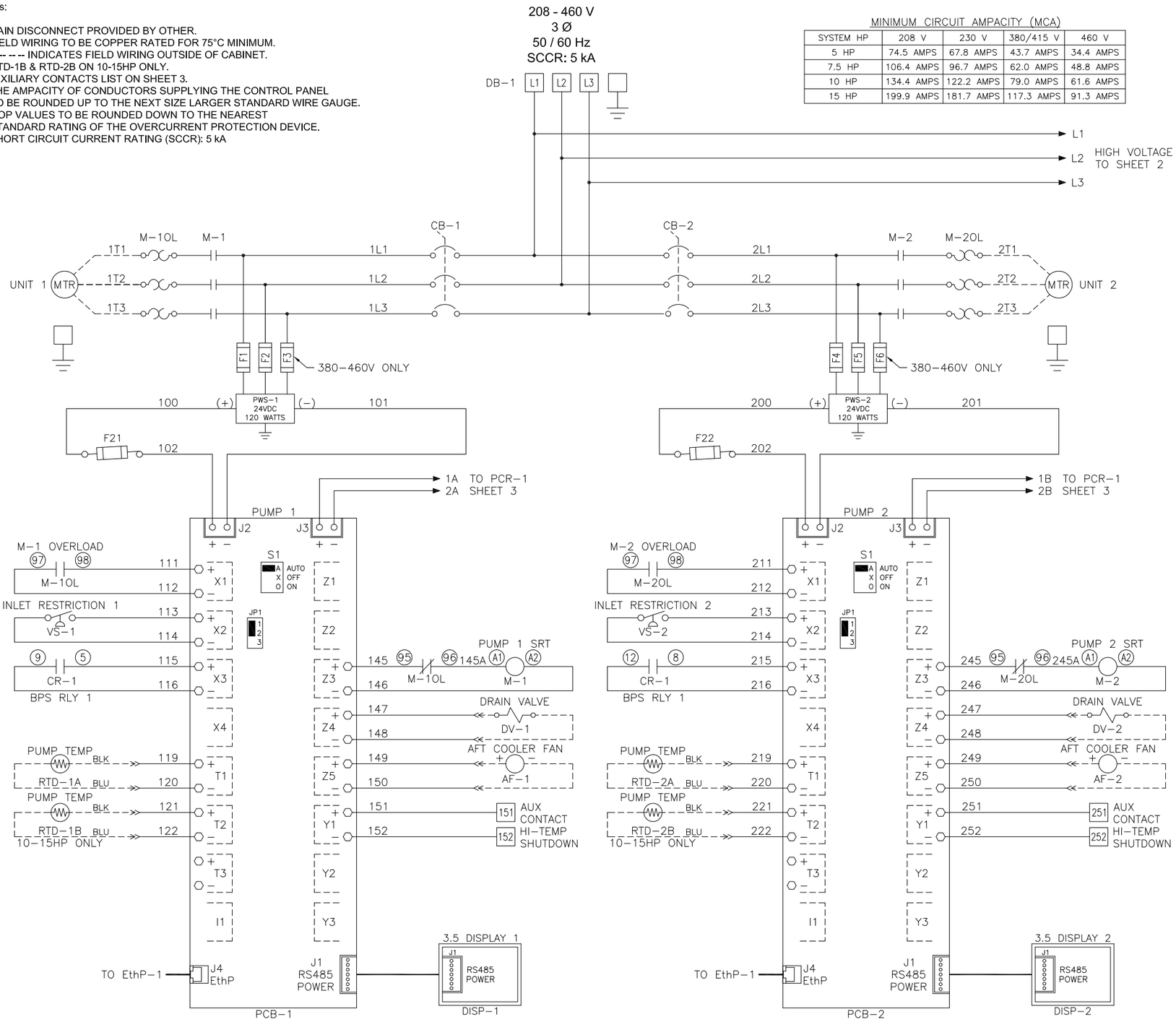
Notes:

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. RTD-1B & RTD-2B ON 10-15HP ONLY.
5 AUXILIARY CONTACTS LIST ON SHEET 3.
6. THE AMPACITY OF CONDUCTORS SUPPLYING THE CONTROL PANEL TO BE ROUNDED UP TO THE NEXT SIZE LARGER STANDARD WIRE GAUGE.
7. MOP VALUES TO BE ROUNDED DOWN TO THE NEAREST STANDARD RATING OF THE OVERCURRENT PROTECTION DEVICE.
8. SHORT CIRCUIT CURRENT RATING (SCCR): 5 kA



MINIMUM CIRCUIT AMPACITY (MCA)

SYSTEM HP	208 V	230 V	380/415 V	460 V
5 HP	74.5 AMPS	67.8 AMPS	43.7 AMPS	34.4 AMPS
7.5 HP	106.4 AMPS	96.7 AMPS	62.0 AMPS	48.8 AMPS
10 HP	134.4 AMPS	122.2 AMPS	79.0 AMPS	61.6 AMPS
15 HP	199.9 AMPS	181.7 AMPS	117.3 AMPS	91.3 AMPS

MAXIMUM OVERCURRENT PROTECTION (MOP)

SYSTEM HP	208 V	230 V	380/415 V	460 V
5 HP	87.7 AMPS	79.8 AMPS	50.9 AMPS	39.9 AMPS
7.5 HP	127.1 AMPS	115.5 AMPS	73.5 AMPS	57.8 AMPS
10 HP	161.7 AMPS	147.0 AMPS	94.5 AMPS	73.5 AMPS
15 HP	242.6 AMPS	220.5 AMPS	141.8 AMPS	110.3 AMPS

QUADRAPLEX SYSTEM FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380V/50Hz	415V/50Hz	460 V
5 HP	54.0 AMPS	50.6 AMPS	34.8 AMPS	22.0 AMPS	25.7 AMPS
7.5 HP	74.8 AMPS	71.4 AMPS	39.6 AMPS	40.8 AMPS	36.1 AMPS
10 HP	104.4 AMPS	98.6 AMPS	55.6 AMPS	53.6 AMPS	49.7 AMPS
15 HP	146.8 AMPS	142.6 AMPS	84.0 AMPS	81.2 AMPS	71.7 AMPS

INDIVIDUAL FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380V/50Hz	415V/50Hz	460 V
5 HP	12.8 AMPS	12.0 AMPS	8.2 AMPS	5.0 AMPS	6.0 AMPS
7.5 HP	18.0 AMPS	17.2 AMPS	9.4 AMPS	9.7 AMPS	8.6 AMPS
10 HP	25.6 AMPS	24.0 AMPS	13.4 AMPS	12.9 AMPS	12.0 AMPS
15 HP	36.0 AMPS	35.0 AMPS	20.5 AMPS	19.8 AMPS	17.5 AMPS

FUSE SELECTION CHART (MAX FUSE SIZES SHOWN)

FUSES	208 V	230 V	380 V	415 V	460 V
F1/F2/F4/F5/ F7/F8/F10/F11	6.0 AMPS	6.0 AMPS	6.0 AMPS	6.0 AMPS	6.0 AMPS
F3/F6/F9/F12	---	---	6.0 AMPS	6.0 AMPS	6.0 AMPS
F21-F24	4.0 AMPS	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	1.0 AMP
F35	0.5 AMP	0.5 AMP	0.5 AMP	0.5 AMP	0.5 AMP

F1-F12 ARE LITTELFUSE KLDR 600V TYPE
F21-F24/F31-F35 ARE LITTELFUSE 2AG 250V TYPE

PUMP/DRYER PCB JUMPER/SWT SETTINGS

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

DEFAULT PUMP PSI SETTINGS

PUMP SEQUENCE	PSI
LEAD CUT-OFF	110
LAG CUT-ON	85

BACKUP PRESSURE SWT SETTINGS

BPS-1 CUT-OFF	105
BPS-1 CUT-ON	80

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 110 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 110 PSI, THE MASTER PCB WILL TURN OFF THE COMPRESSOR THAT IS RUNNING AND SEQUENCE TO THE NEXT COMPRESSOR. IF DURING OPERATION THE PRESSURE FALLS BELOW 85 PSI, THE LAG COMPRESSOR WILL START AND A LAG ALARM WILL OCCUR.

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) CLOSES 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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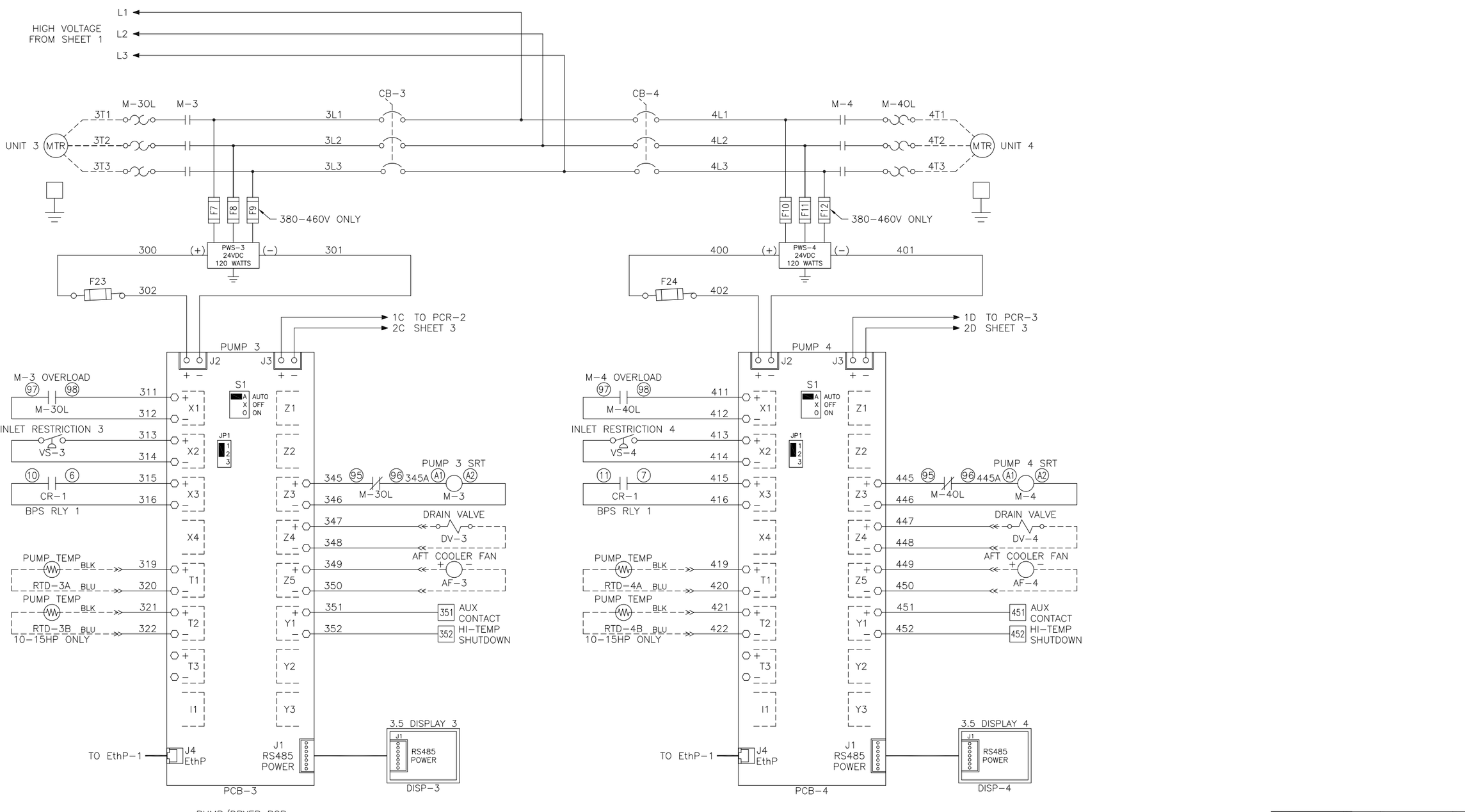
			D
Description: DWG WIRING CONTROL QX SCROLL 5-15HP 208-460/3/50-60		Part Number: 4107 8526 83	
		DN: HOP 160683 00	Rev: 06
		Sheet 1 of 3	DO NOT SCALE THIS DOCUMENT

Notes:

1. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.
2. RTD-3B & RTD-4B ON 10-15HP ONLY.



PUMP/DRYER PCB
JUMPER/SWT SETTINGS

JPR/SWT	POSITION
JP1	1–2
S1	A (AUTO)

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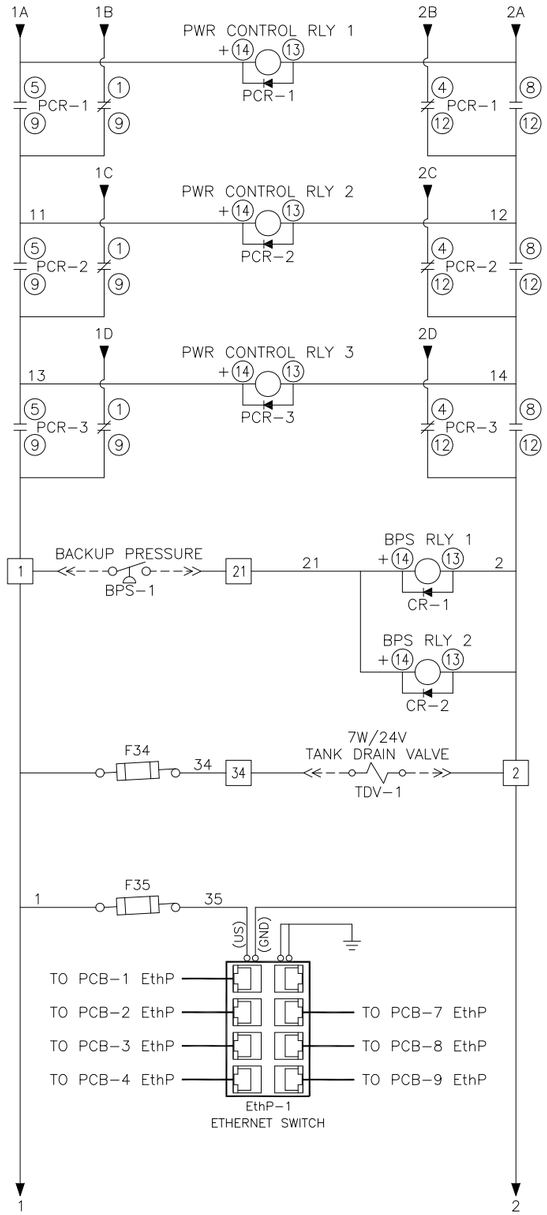
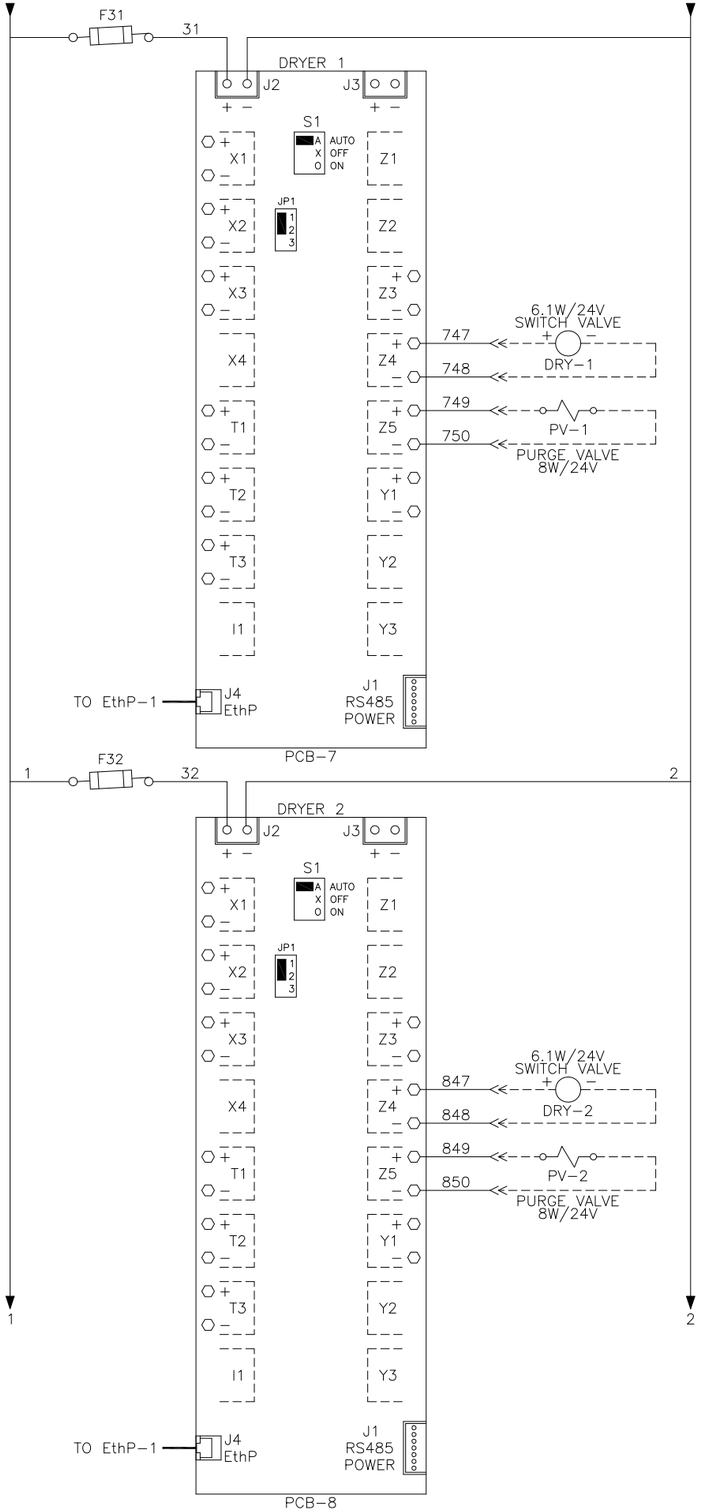
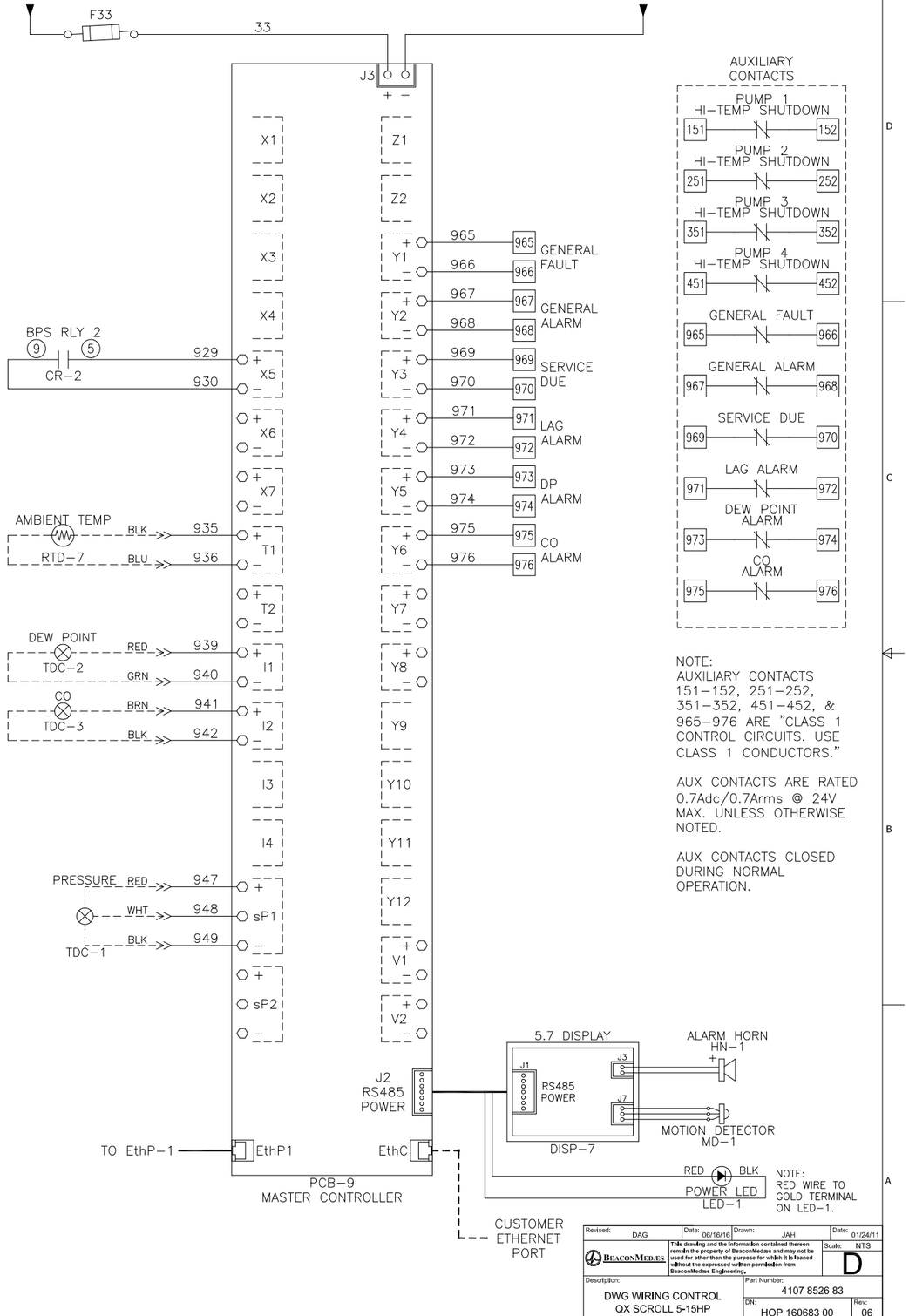
		DN: HOP 160683 00	Rev: 06
		Sheet 2 of 3	DO NOT SCALE THIS DOCUMENT

Notes:

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







NOTE:
AUXILIARY CONTACTS 151–152, 251–252, 351–352, 451–452, & 965–976 ARE "CLASS 1 CONTROL CIRCUITS. USE CLASS 1 CONDUCTORS."

AUX CONTACTS ARE RATED 0.7Adc/0.7Arms @ 24V MAX. UNLESS OTHERWISE NOTED.

AUX CONTACTS CLOSED DURING NORMAL OPERATION.

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