

Notes:

1. THE AMPACITY OF CONDUCTORS SUPPLYING THE CONTROL PANEL TO BE ROUNDED UP TO THE NEXT SIZE LARGER STANDARD WIRE GAUGE.
2. MOP VALUES TO BE ROUNDED DOWN TO THE NEAREST STANDARD RATING OF THE OVERCURRENT PROTECTION DEVICE.
3. SHORT CIRCUIT CURRENT RATING (SCCR): 65 kA

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 SIXTH 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:

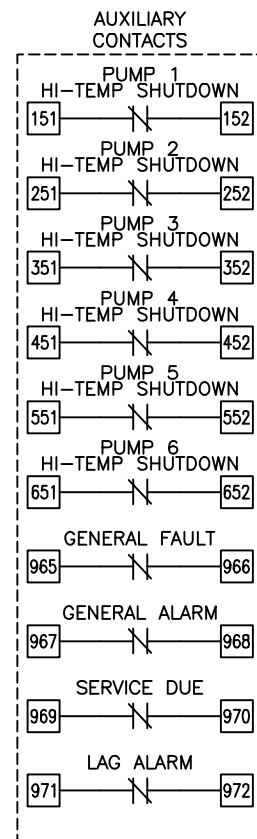
THE PUMP IS DISABLED FROM RUNNING.

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.



NOTE:
AUXILIARY CONTACTS
151-152, 251-252,
351-352, 451-452,
551-552, 651-652, &
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.

MINIMUM CIRCUIT AMPACITY (MCA)

SYSTEM HP	208 V	230 V	380 V	460 V
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
15 HP	335.0 AMPS	304.5 AMPS	195.8 AMPS	152.3 AMPS

INDIVIDUAL OPERATING FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380V/50Hz	460 V
15 HP	40.5 AMPS	35.0 AMPS	14.5 AMPS	17.5 AMPS

INDIVIDUAL MOTOR NAMEPLATE FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	460 V	S.F.	380V/50Hz	S.F.
15 HP	40.5 AMPS	35.0 AMPS	17.5 AMPS	1.15	14.5 AMPS	1.15

HEXAPLEX SYSTEM FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380V/50Hz	460 V
15 HP	247.2 AMPS	213.8 AMPS	90.0 AMPS	107.5 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	2.5 AMPS	2.5 AMPS	2.5 AMPS	2.5 AMPS
F33	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

F1-F18 ARE LITTELFUSE KLDL 600V TYPE
F21-F26/F33/F35 ARE LITTELFUSE 2AG 250V TYPE

OVERLOAD SETTINGS

SYSTEM HP	208 V	230 V	380V/50Hz	460 V
15 HP	44.6 AMPS	38.5 AMPS	16.0 AMPS	19.3 AMPS

DEFAULT VACUUM SETTINGS ("HgV)

ALTITUDE	LEAD CUT-OFF		LAG CUT-ON		MAXIMUM LIMITS				MINIMUM LIMITS			
		O2A		O2A	O2A		O2A		O2A		O2A	
0-1000'	21	19	16	15	25	18	25	17	17	15	16	15
1001-2000'	20	18	16	15	24	18	24	17	17	15	16	15
2001-3000'	19	18	16	15	23	18	23	17	17	15	16	15
3001-4000'	19	18	16	15	22	18	22	17	17	15	16	15
>4000'	CONSULT FACTORY											

RELIEF VALVE SETTINGS ("HgV)

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

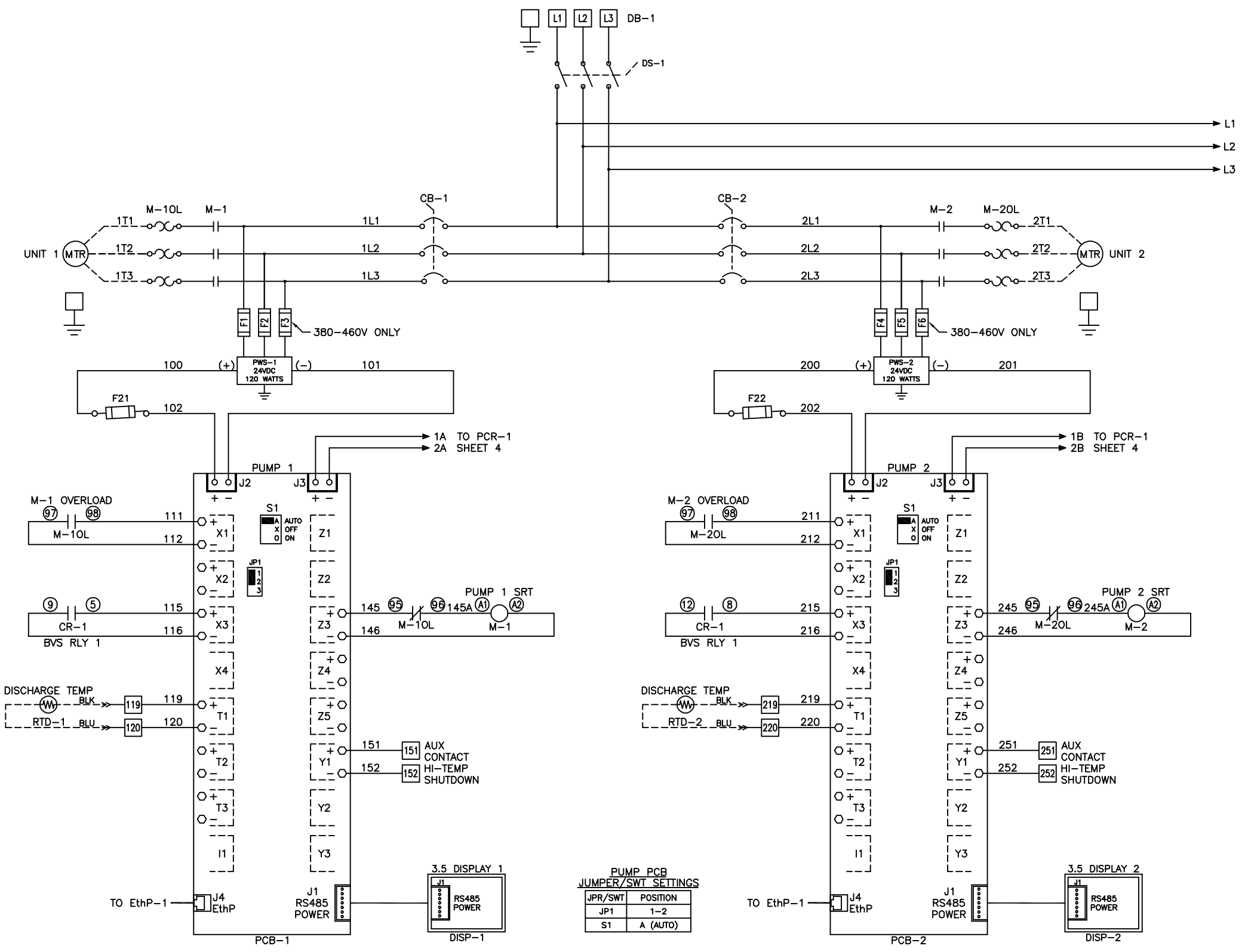
BACKUP VACUUM SWITCH ("HgV)

BVS-1	CUT-ON	O2A
	15	14

Revised:	Date:	Drawn:	MDB	Date:	10/30/18
		<small>This drawing and the information contained therein remain the property of BeaconMedias and may not be used for other than the purpose for which it is loaned without the expressed written permission from BeaconMedias Engineering.</small>			
Description: DWG WIRING CONTROL HX CLAW 15HP 208-460/3/50-60, 65kA		Part Number: 4107 8568 47		Scale: NTS D	
DWG: HOP 180863		Rev: 00		Sheet 1 of 5 DO NOT SCALE THIS DOCUMENT	

- 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.

15HP 208-460V
SCCR: 65 kA



HIGH VOLTAGE
TO SHEET 3

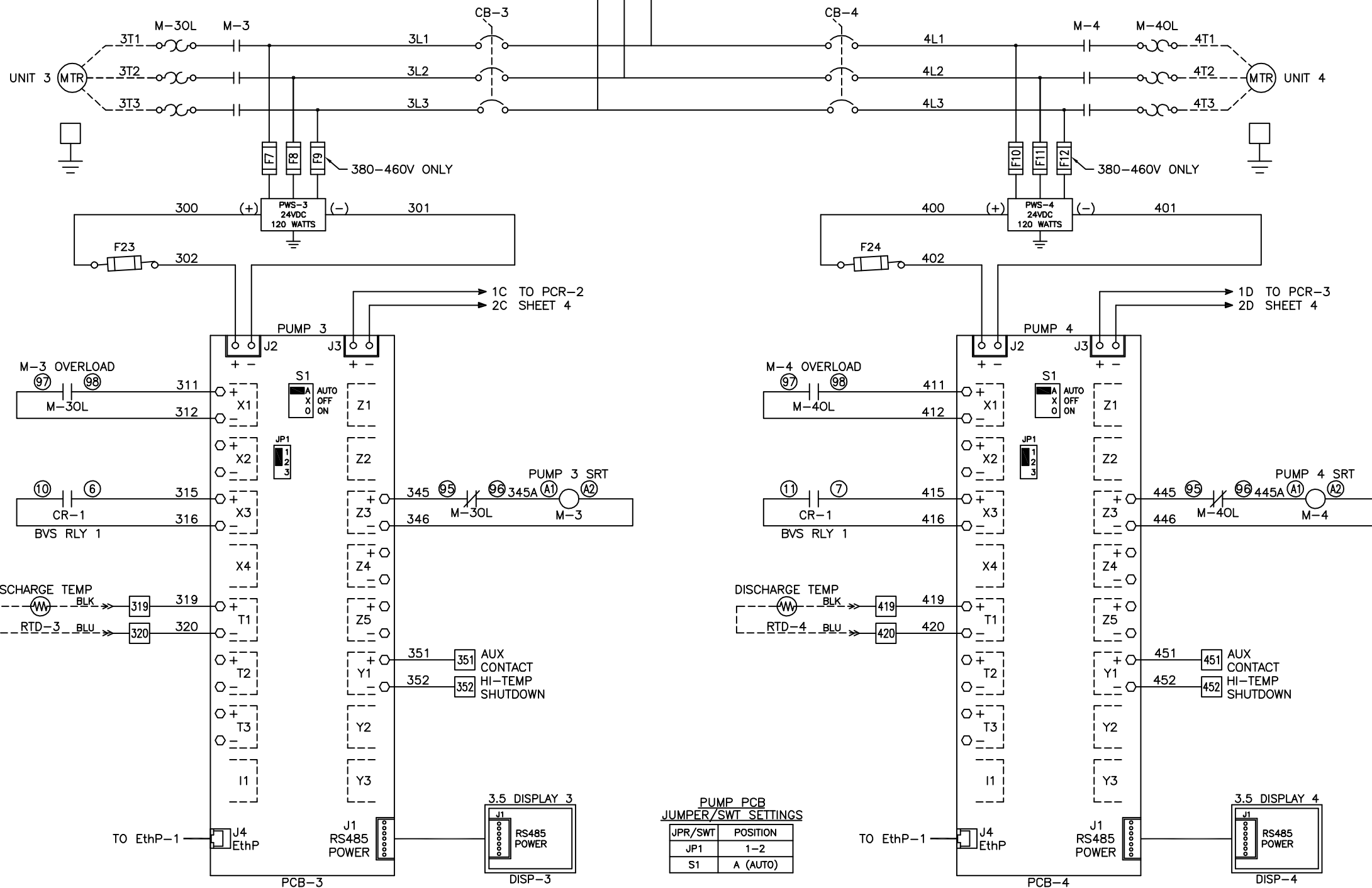
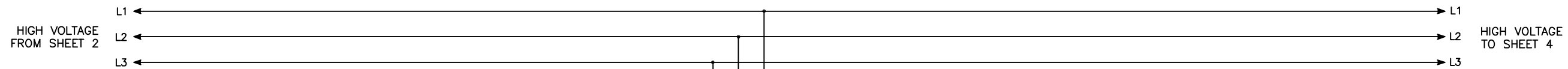
PUMP PCB
JUMPER/SWT SETTINGS

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 BeaconMedas and may not be used for other than the purpose for which it was issued without the express and written permission from BeaconMedas Engineering.</small>			
Description: DWG WIRING CONTROL HX CLAW 15HP 208-460/3/50-60, 65kA		Part Number: 4107 8568 47		Scale: NTS D	
Div: HOP 180863		Rev: 00		Sheet 2 of 5 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

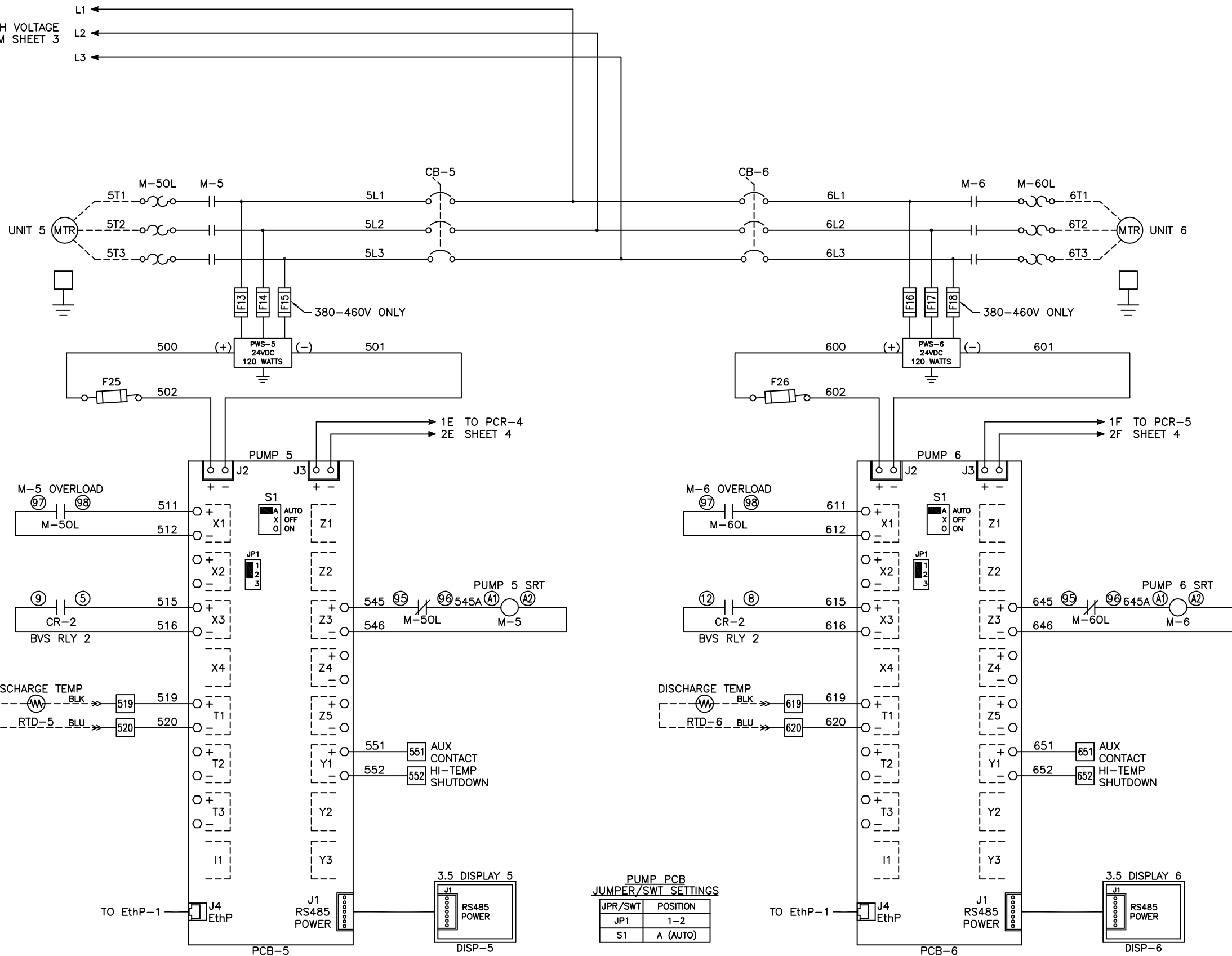
JPR/SWT	POSITION
JP1	1-2
S1	A (AUTO)

Revised	Date	Drawn	MDB	Date	10/30/18
<small>This drawing and the information contained therein remain the property of BeaconMedics and may not be used for other than the purpose for which it is loaned without the express and written permission from BeaconMedics Engineering.</small>					
BEACONMEDICS			D		
Description DWG WIRING CONTROL HX CLAW 15HP 208-460/3/50-60, 65kA		Part Number 4107 8568 47		Rev 00	
DNE HOP 180863		Sheet 3 of 5		DO NOT SCALE THIS DOCUMENT	

Notes:

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

HIGH VOLTAGE
FROM SHEET 3
L1
L2
L3



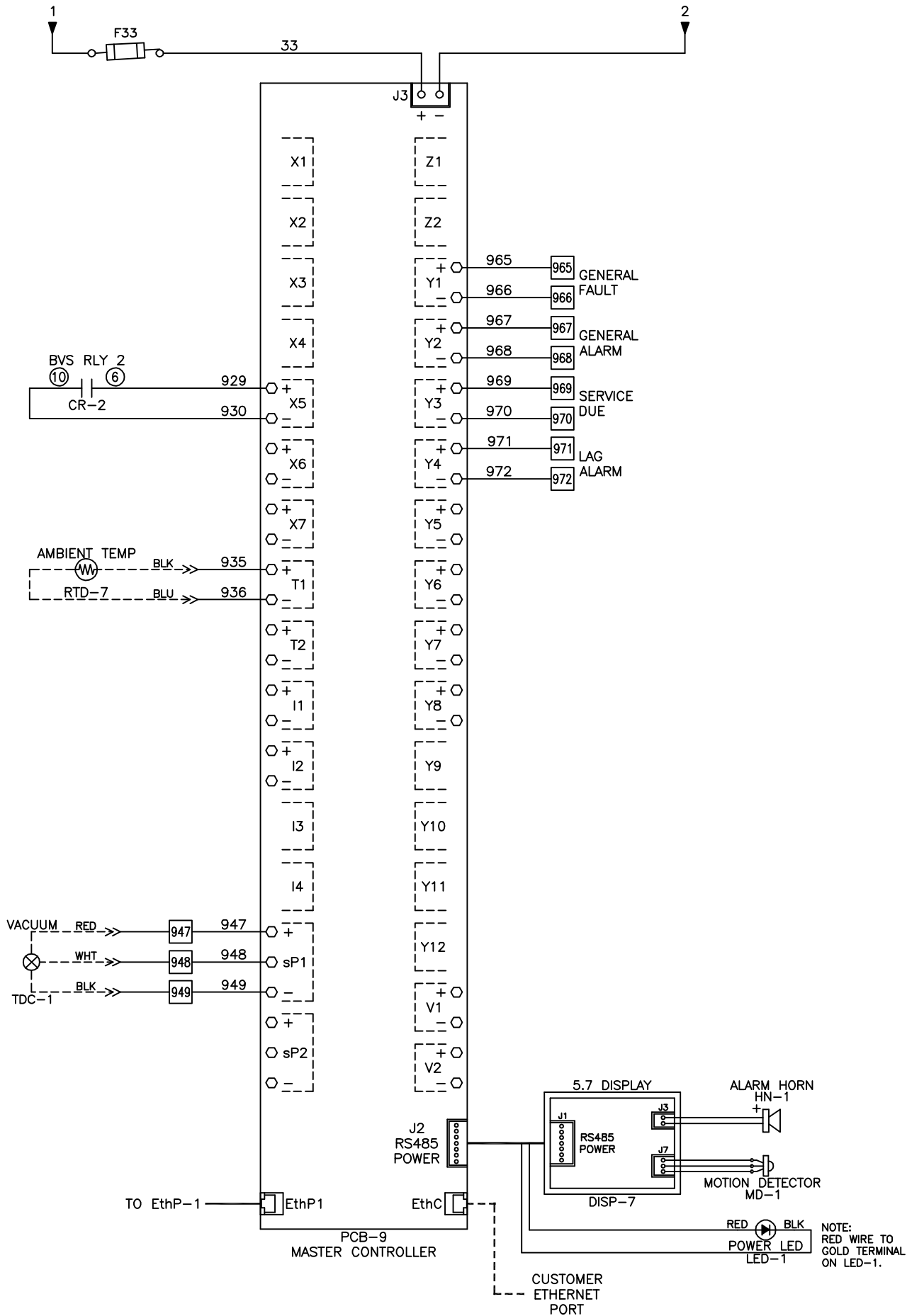
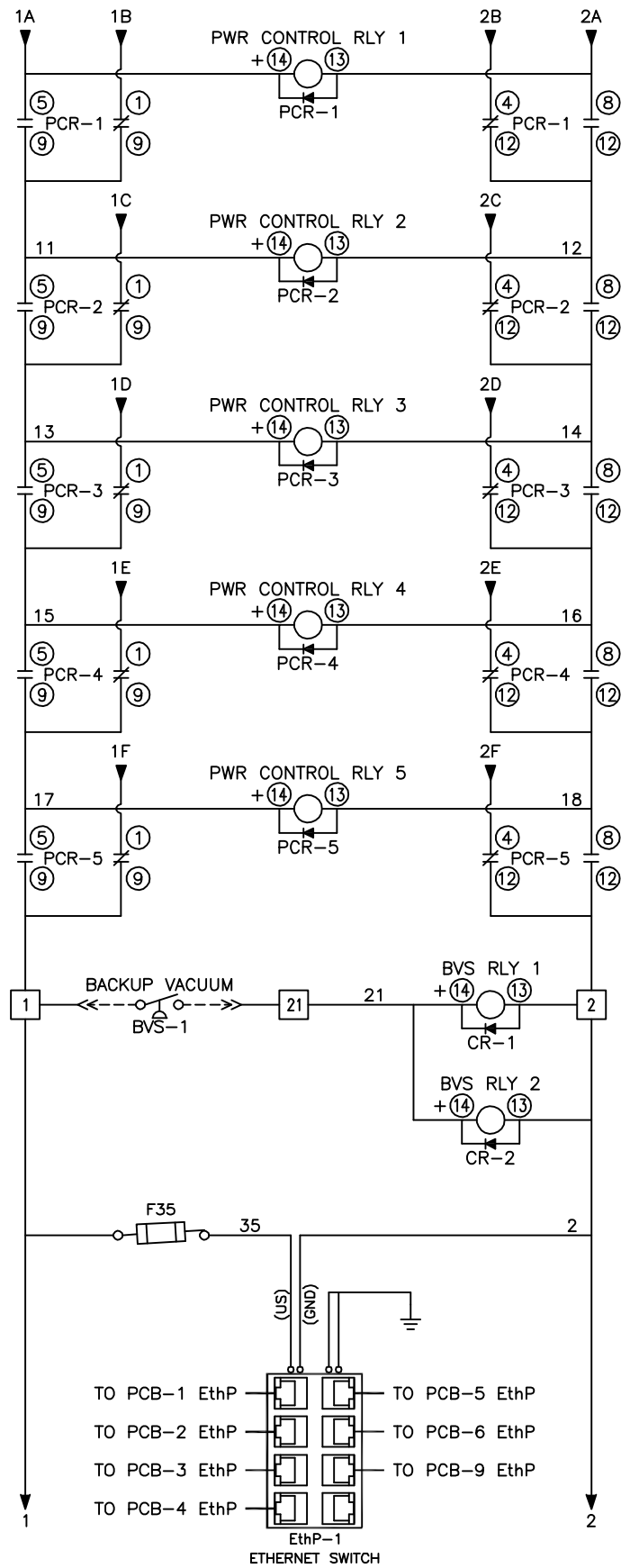
PUMP PCB
JUMPER/SWT SETTINGS

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

Revised:	Date:	Drawn:	MDB	Date:	10/30/18	
<small>This drawing and the information contained thereon remain the property of BeaconMedics and may not be used for other than the purpose for which it is loaned without the expressed written permission from BeaconMedics Engineering.</small>					Scale:	NTS
BEACONMEDICS					D	
Description: DWG WIRING CONTROL HX CLAW 15HP 208-460/3/50-60, 65KA			Part Number: 4107 8568 47			
DN:	HOP 180863	Rev:	00	Sheet 4 of 5		
<small>DO NOT SCALE THIS DOCUMENT</small>						

Notes:

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



Revised:	Date:	Drawn:	MDB	Date:	10/30/18
		This drawing and the information contained therein remain the property of BeaconMedas and may not be used for other than the purpose for which it is issued without the express written permission from BeaconMedas Engineering.			
Description: DWG WIRING CONTROL HX CLAW 15HP 208-460/3/50-60, 65kA		Part Number: 4107 8568 47			
DNE HOP 180863 Sheet 5 of 5		Rec: 00 DO NOT SCALE THIS DOCUMENT			