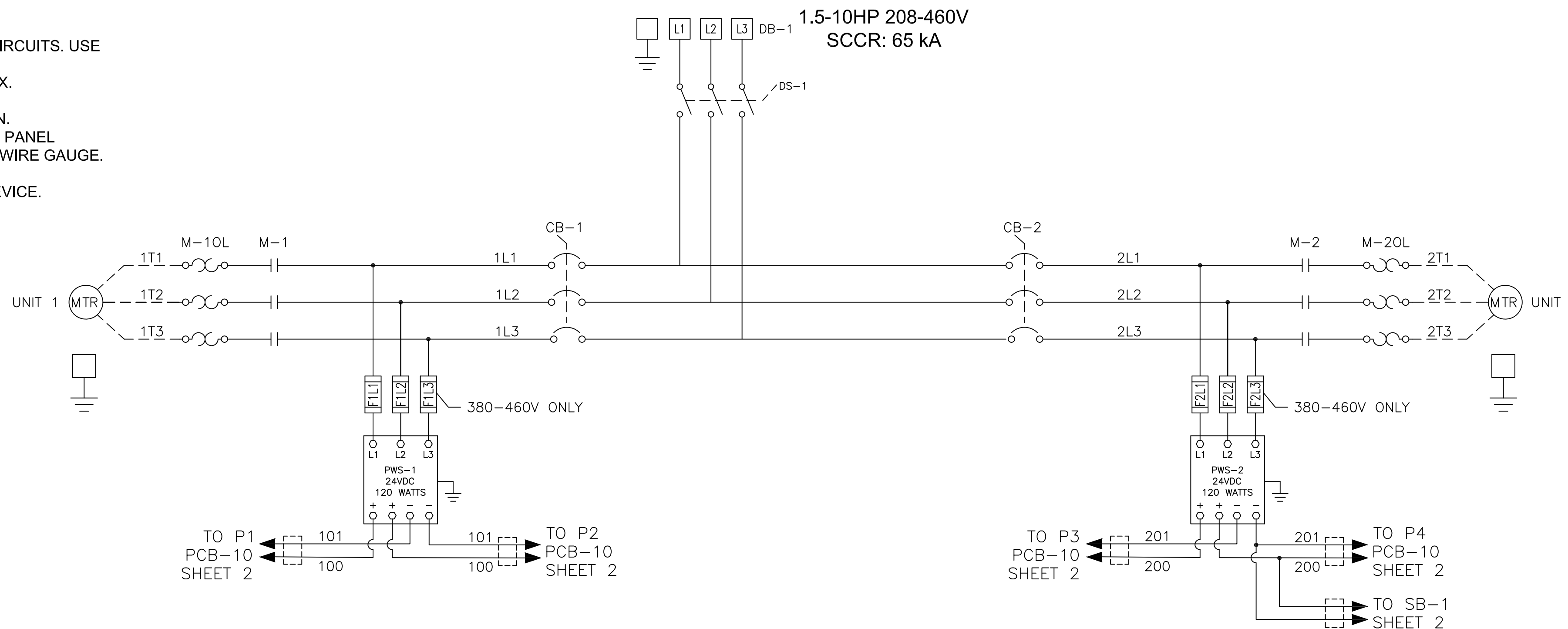


Notes:

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 ON PCB-12 ARE "CLASS 1 CONTROL CIRCUITS. USE CLASS 1 CONDUCTORS."
5. AUXILIARY CONTACTS ARE RATED 0.7 Adc/0.7Arms @ 24V MAX. UNLESS OTHERWISE NOTED.
6. AUXILIARY CONTACTS CLOSED DURING NORMAL OPERATION.
7. THE AMPACITY OF CONDUCTORS SUPPLYING THE CONTROL PANEL TO BE ROUNDED UP TO THE NEXT SIZE LARGER STANDARD WIRE GAUGE.
8. MOP VALUES TO BE ROUNDED DOWN TO THE NEAREST STANDARD RATING OF THE OVERCURRENT PROTECTION DEVICE.
9. SHORT CIRCUIT CURRENT RATING (SCCR): 65 kA



MINIMUM CIRCUIT AMPACITY (MCA)

SYSTEM HP	208 V	230 V	380 V	460 V
1.5 HP	16.6 AMPS	15.1 AMPS	8.7 AMPS	7.8 AMPS
2 HP	18.6 AMPS	16.9 AMPS	10.9 AMPS	8.7 AMPS
3 HP	25.6 AMPS	23.2 AMPS	15.0 AMPS	11.8 AMPS
5 HP	39.3 AMPS	35.8 AMPS	23.1 AMPS	18.1 AMPS
7.5 HP	56.2 AMPS	51.1 AMPS	--- AMPS	25.8 AMPS
10 HP	71.1 AMPS	64.6 AMPS	--- AMPS	32.5 AMPS

MAXIMUM OVERCURRENT PROTECTION (MOP)

SYSTEM HP	208 V	230 V	380 V	460 V
1.5 HP	21.5 AMPS	19.5 AMPS	10.7 AMPS	9.8 AMPS
2 HP	24.4 AMPS	22.1 AMPS	14.0 AMPS	11.1 AMPS
3 HP	34.5 AMPS	31.2 AMPS	19.8 AMPS	15.6 AMPS
5 HP	54.3 AMPS	49.4 AMPS	31.5 AMPS	24.7 AMPS
7.5 HP	78.7 AMPS	71.5 AMPS	--- AMPS	35.8 AMPS
10 HP	100.1 AMPS	91.0 AMPS	--- AMPS	45.5 AMPS

DUPLEX SYSTEM FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380V/50Hz	460 V
1.5 HP	11.8 AMPS	11.3 AMPS	7.2 AMPS	6.2 AMPS
2 HP	15.6 AMPS	14.3 AMPS	7.6 AMPS	7.4 AMPS
3 HP	21.0 AMPS	20.1 AMPS	10.4 AMPS	10.2 AMPS
5 HP	36.0 AMPS	34.9 AMPS	19.4 AMPS	15.8 AMPS
7.5 HP	43.4 AMPS	40.5 AMPS	--- AMPS	20.4 AMPS
10 HP	58.4 AMPS	52.9 AMPS	--- AMPS	26.6 AMPS

INDIVIDUAL FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	380V/50Hz	460 V
1.5 HP	5.2 AMPS	5.0 AMPS	3.1 AMPS	2.7 AMPS
2 HP	7.1 AMPS	6.5 AMPS	3.3 AMPS	3.3 AMPS
3 HP	9.8 AMPS	9.4 AMPS	4.7 AMPS	4.7 AMPS
5 HP	17.3 AMPS	16.8 AMPS	9.2 AMPS	7.5 AMPS
7.5 HP	21.0 AMPS	19.6 AMPS	--- AMPS	9.8 AMPS
10 HP	28.5 AMPS	25.8 AMPS	--- AMPS	12.9 AMPS

FUSE SELECTION CHART (MAX FUSE SIZES SHOWN)

SYSTEM HP	FUSES	208 V	230 V	380 V	460 V
ALL	F1L1-F2L1 F1L2-F2L2	6.0 AMPS	6.0 AMPS	6.0 AMPS	6.0 AMPS
	F1L3-F2L3	---	---	6.0 AMPS	6.0 AMPS
	F1/F2/F3/F4 F5/F6	4.0 AMPS	4.0 AMPS	4.0 AMPS	4.0 AMPS
	F7/F8/F9/F10 F11/F12/F13	1.0 AMP	1.0 AMP	1.0 AMP	1.0 AMP
	F14	3.0 AMP	3.0 AMP	3.0 AMP	3.0 AMP

F1L1-F2L1/F1L2-F2L2/F1L3-F2L3 ARE LITTELFUSE KLDOR 600V TYPE  
 F1-F13 ARE SCHURTER UMT 250 TIME-LAG 250 VAC TYPE  
 F14 IS LITTELFUSE 2AG 250V TYPE

RELIEF VALVE SETTINGS ("HgV)

ALTITUDE	1.5-2HP	3-5HP	7.5HP	10HP
0'-1000'	25	26	21.5	23
1001'-2000'	24	25	20.5	22
2001'-3000'	23	24	19.5	21
3001'-4000'	22	23	18.5	20
>4000'	CONSULT FACTORY			

AUTO OPERATION:

DURING NORMAL OPERATION, THE SYSTEM PCB WILL SIGNAL THE LEAD VACUUM PUMP TO START WHEN THE VACUUM FALLS BELOW THE SET-POINT. IF ONE PUMP CAN CARRY THE LOAD, THEN THE VACUUM WILL RISE TO THE SET-POINT. THE PUMP PCB WILL THEN TURN OFF THE LEAD VACUUM PUMP WHEN ITS RUN TIMER EXPIRES. WHEN THE SYSTEM VACUUM FALLS AGAIN, THE SYSTEM PCB WILL SEQUENCE THE LEAD ROLE TO THE NEXT PUMP PCB AND IT WILL START. IF DURING OPERATION THE SYSTEM VACUUM FALLS BELOW 15"Hg, THE LAG PUMP 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 RUN CONTINUOUSLY.

PCB FAULT:

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

SYSTEM/PUMP PCB JUMPER/SWT SETTINGS

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

DEFAULT VACUUM SETTINGS

ALTITUDE	LEAD CUT-OFF ("Hg)	LAG CUT-ON ("Hg)	Maximum Limits ("Hg)		Minimum Limits ("Hg)	
0'-1000'	21"	16"	25"	18"	17"	14"
1001'-2000'	20"	16"	24"	18"	17"	14"
2001'-3000'	19"	16"	23"	18"	17"	14"
3001'-4000'	18"	16"	22"	18"	17"	14"
>4,000'	CONSULT FACTORY					

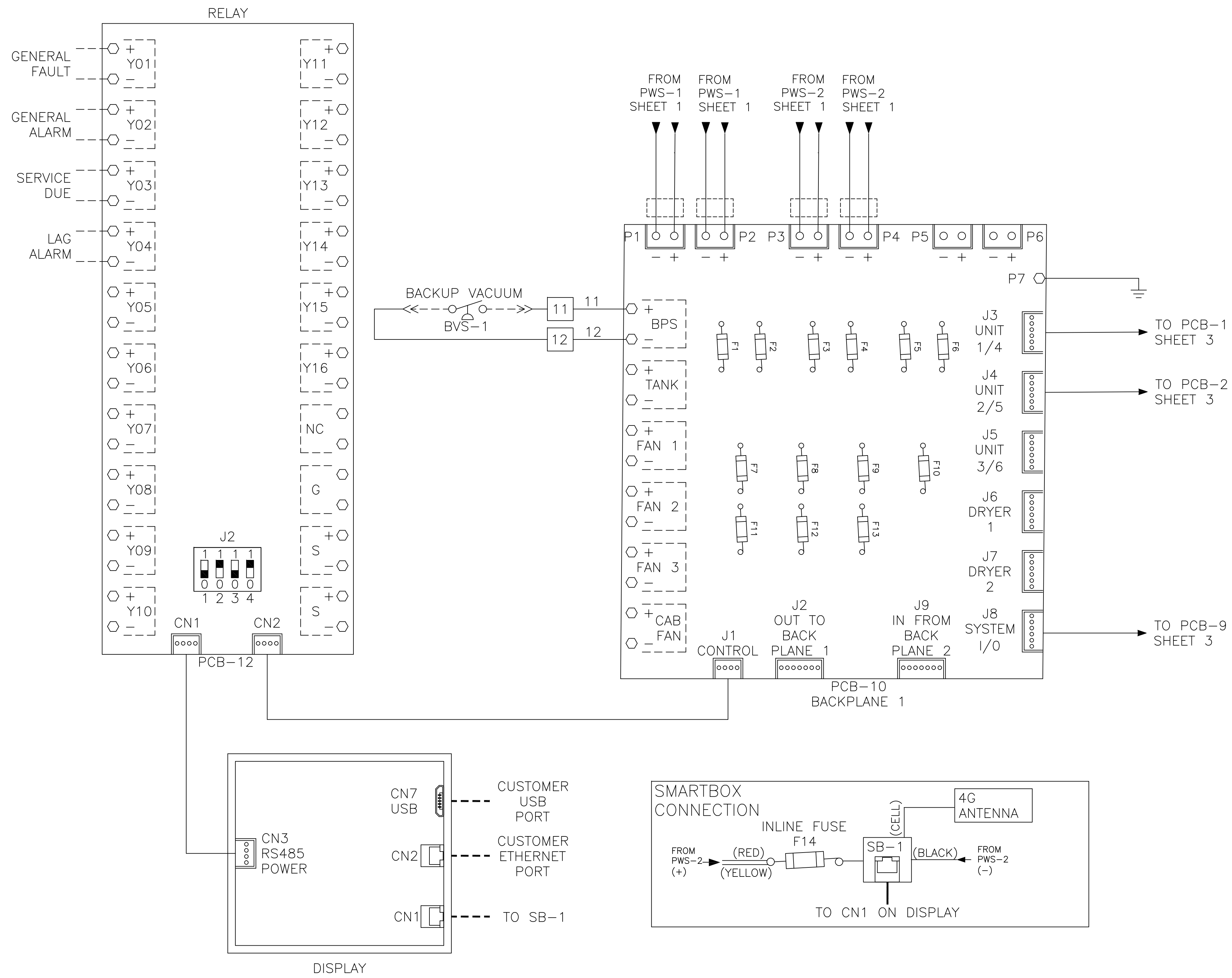
BACKUP VACUUM SWITCH ("HgV)

BVS-1	CUT-ON	15
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Revised:	Date:	Drawn:	TAR	Date:	06/08/23
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Description: <b>DWG WIRING CONTROL          DX DRY 1.5-10HP GEN2          208-460/3/50-60, 65kA</b>			Part Number: <b>4107 8581 29</b>		
DN: <b>HOP230821</b>			Rev: <b>00</b>		
Sheet 1 of 3			DO NOT SCALE THIS DOCUMENT		

Notes:

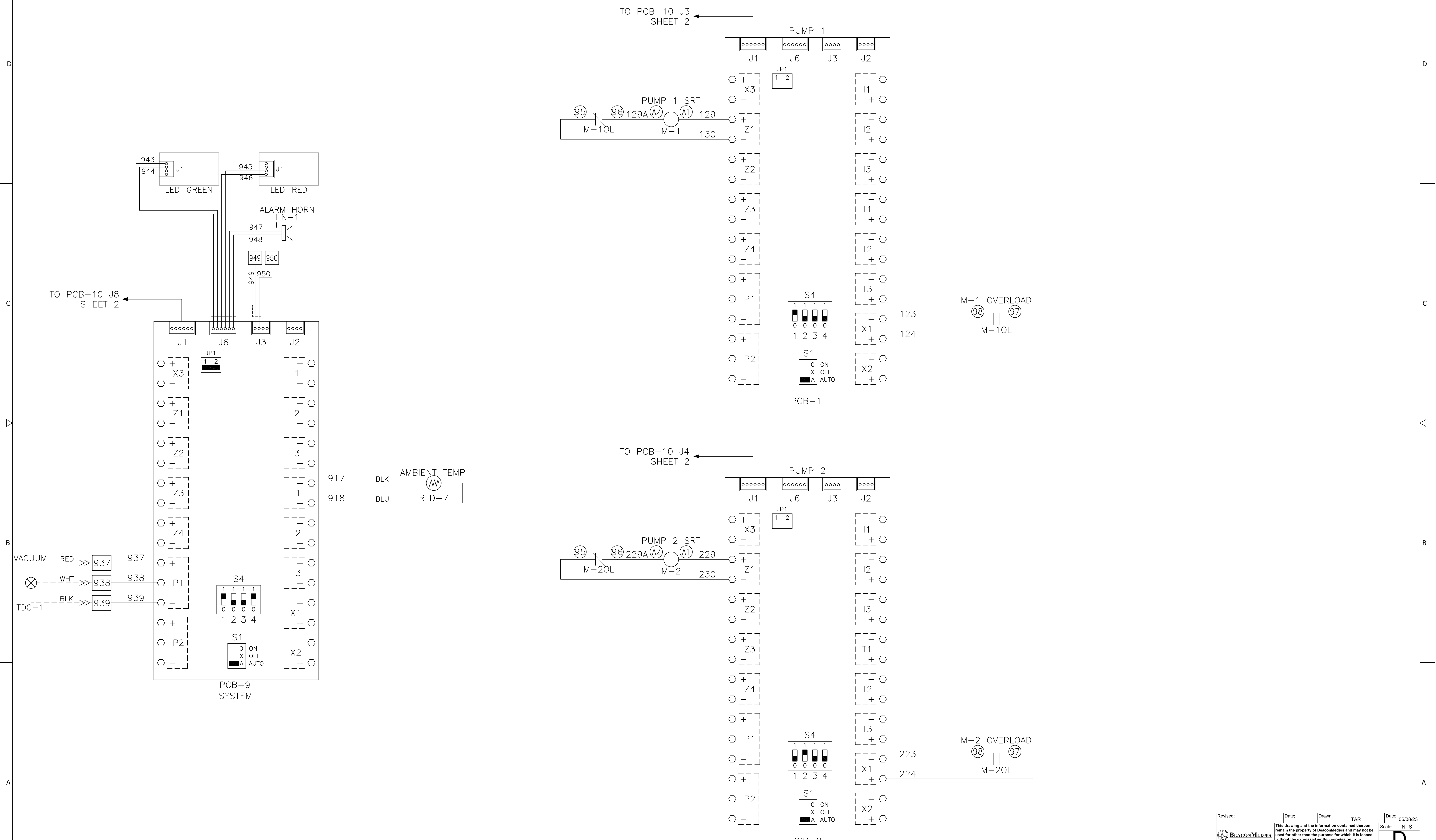
1. FIELD WIRING TO BE COPPER RATED FOR 75°C MINIMUM.



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			D
Description:	Part Number: 4107 8581 29		
DWG WIRING CONTROL	DN:	HOP230821	Rev: 00
DX DRY 1.5-10HP GEN2	Sheet	2 of 3	DO NOT SCALE THIS DOCUMENT
208-460/3/50-60, 65kA	1		

Notes:

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



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Description: DWG WIRING CONTROL DX DRY 1.5-10HP GEN2 208-460/3/50-60, 65kVA		Part Number: 4107 8581 29	Scale: NTS 
DN: HOP230821 Sheet 3 of 3		Rev: 00	DO NOT SCALE THIS DOCUMENT