

208-575V
3∅
60 HZ

MAIN DISCONNECT
PROVIDED BY OTHER

DUPLEX SYSTEM FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	460 V	575 V
1 HP	8 AMPS	7 AMPS	4 AMPS	3 AMPS
1.5 HP	12 AMPS	10 AMPS	5 AMPS	4 AMPS
2 HP	14 AMPS	12 AMPS	6 AMPS	5 AMPS
3 HP	23 AMPS	20 AMPS	10 AMPS	8 AMPS
5 HP	35 AMPS	30 AMPS	15 AMPS	12 AMPS
7.5 HP	51 AMPS	44 AMPS	22 AMPS	18 AMPS
10 HP	63 AMPS	55 AMPS	28 AMPS	22 AMPS

INDIVIDUAL MOTOR FULL LOAD AMPERES

SYSTEM HP	208 V	230 V	460 V	575 V
1 HP	3.2 AMPS	2.8 AMPS	1.4 AMPS	1.1 AMPS
1.5 HP	5.1 AMPS	4.4 AMPS	2.2 AMPS	1.8 AMPS
2 HP	6.4 AMPS	5.6 AMPS	2.8 AMPS	2.2 AMPS
3 HP	10.8 AMPS	9.4 AMPS	4.7 AMPS	3.8 AMPS
5 HP	16.6 AMPS	14.4 AMPS	7.2 AMPS	5.8 AMPS
7.5 HP	24.7 AMPS	21.5 AMPS	10.7 AMPS	8.6 AMPS
10 HP	30.8 AMPS	26.8 AMPS	13.4 AMPS	10.7 AMPS

FUSE SELECTION CHART (MAX FUSE SIZES SHOWN)

FUSE	208 V	230 V	460 V	575 V
F1/F2	1.6 AMPS	1.4 AMPS	.6 AMP	.6 AMP
F3/F4	1.6 AMPS	1.4 AMPS	.6 AMP	.6 AMP
F5/F6	1.25 AMPS	1.25 AMPS	1.25 AMPS	1.25 AMPS
F13	0.7 AMPS	0.7 AMPS	0.7 AMPS	0.7 AMPS

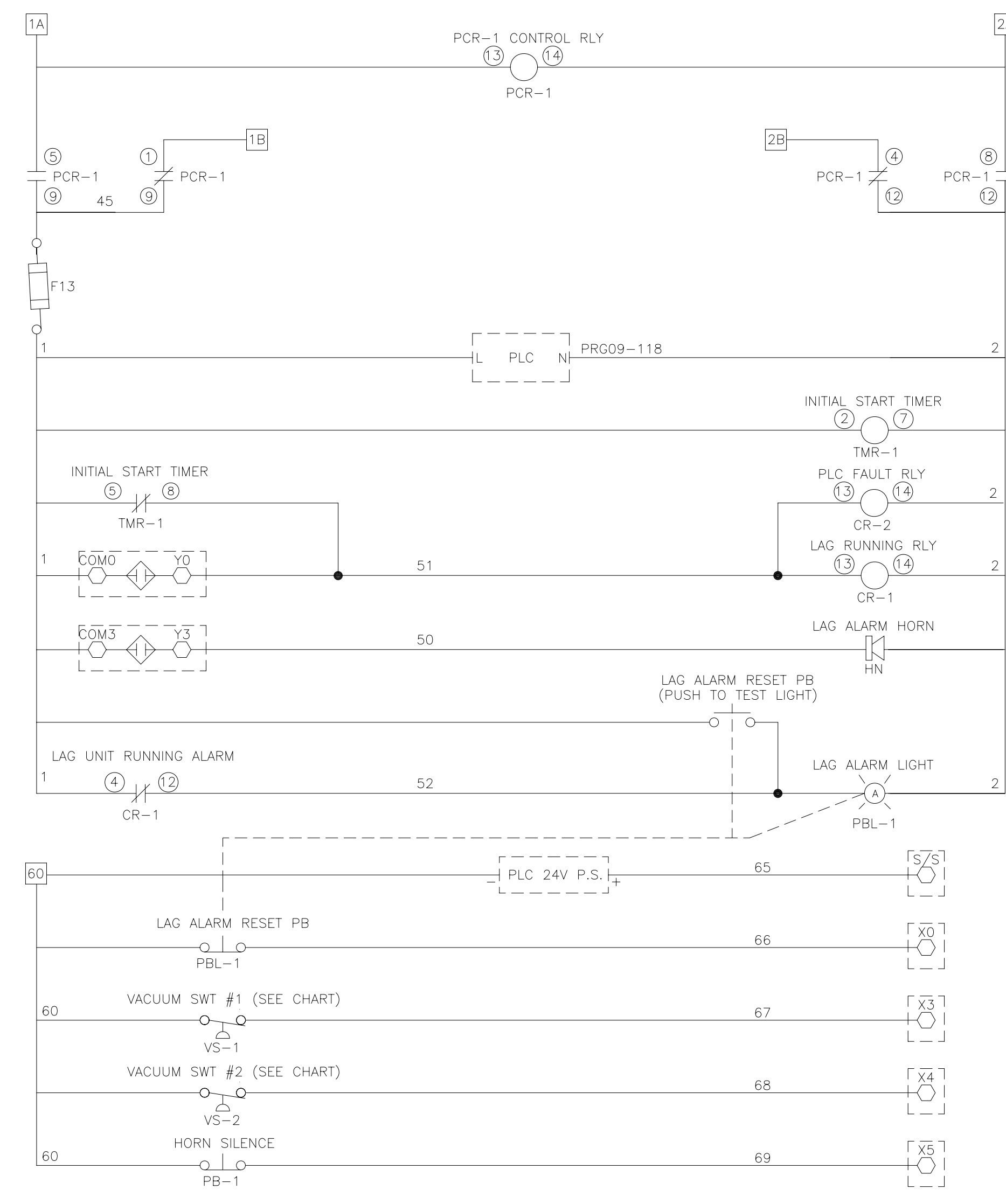
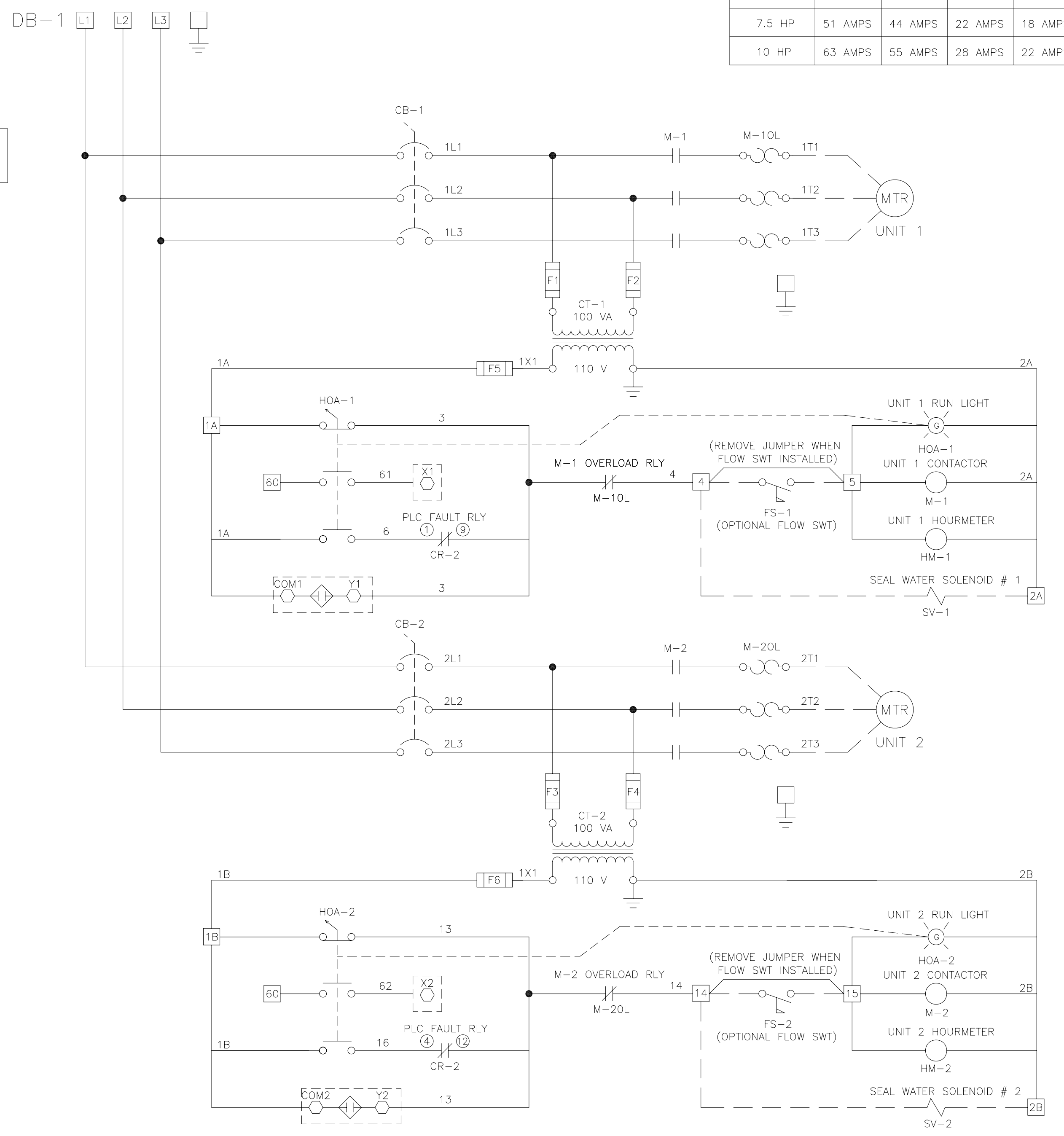
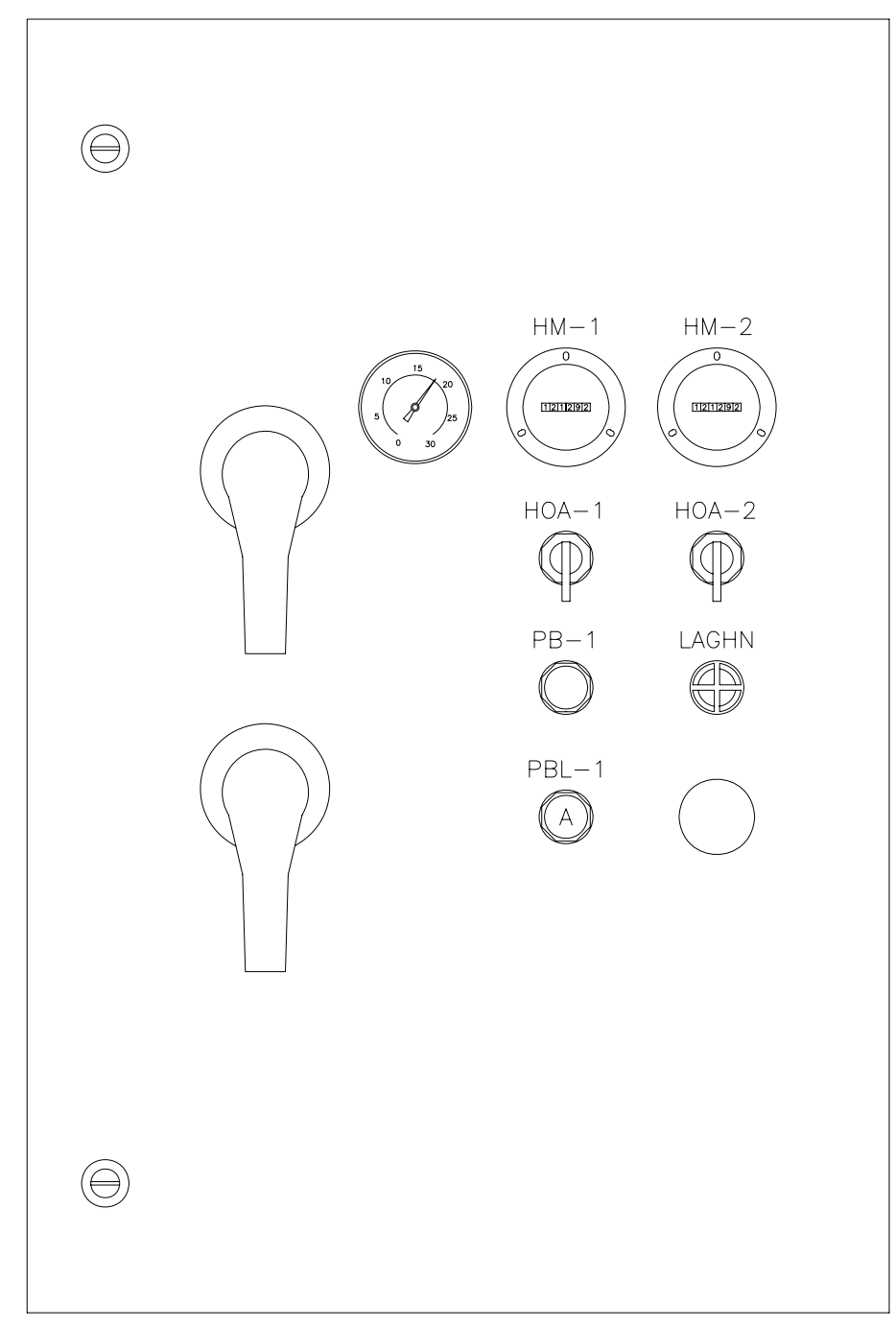
F1/F2/F3/F4 ARE LITTLEFUSE KLDLR 600V TYPE
F5/F6 ARE LITTLEFUSE FLM 250V TYPE
F13 IS LITTLEFUSE 2AG 250V TYPE

VACUUM SWITCH SETTINGS

ALTITUDE	VS-1	VS-2	RELIEF VALVE SETTING
0-3000	20-23"hg	17-21"hg	25"hg
3001-4000	19-22"hg	17-20"hg	24"hg
4001-5000	18-21"hg	16-19"hg	23"hg
5001-6000	17-20"hg	15-18"hg	22"hg

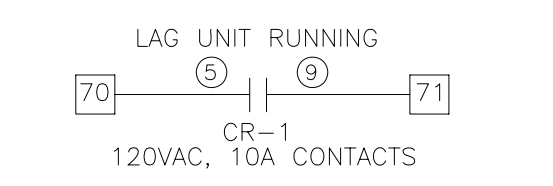
--- INDICATES FIELD WIRING OUTSIDE OF BOX

FIELD WIRING TO BE COPPER WIRE RATED FOR 75° C MINIMUM

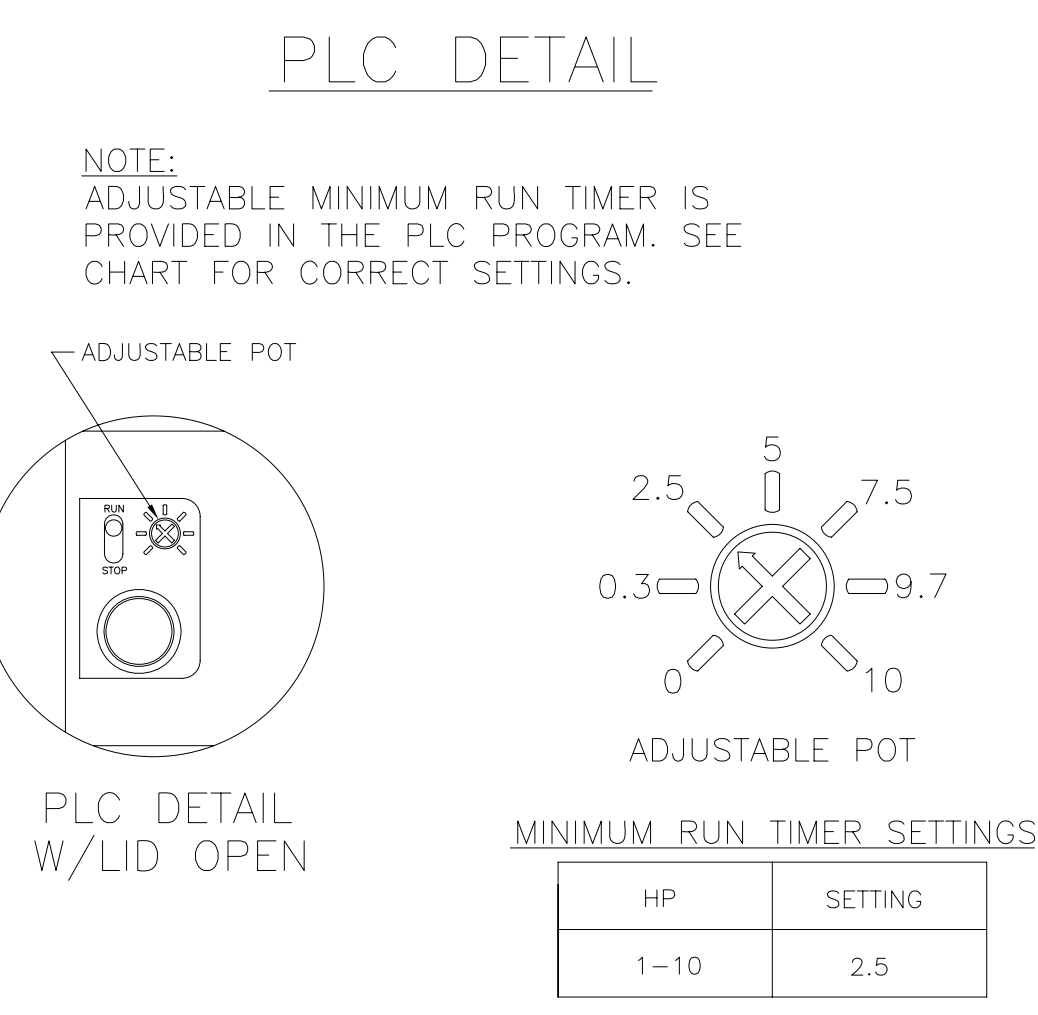
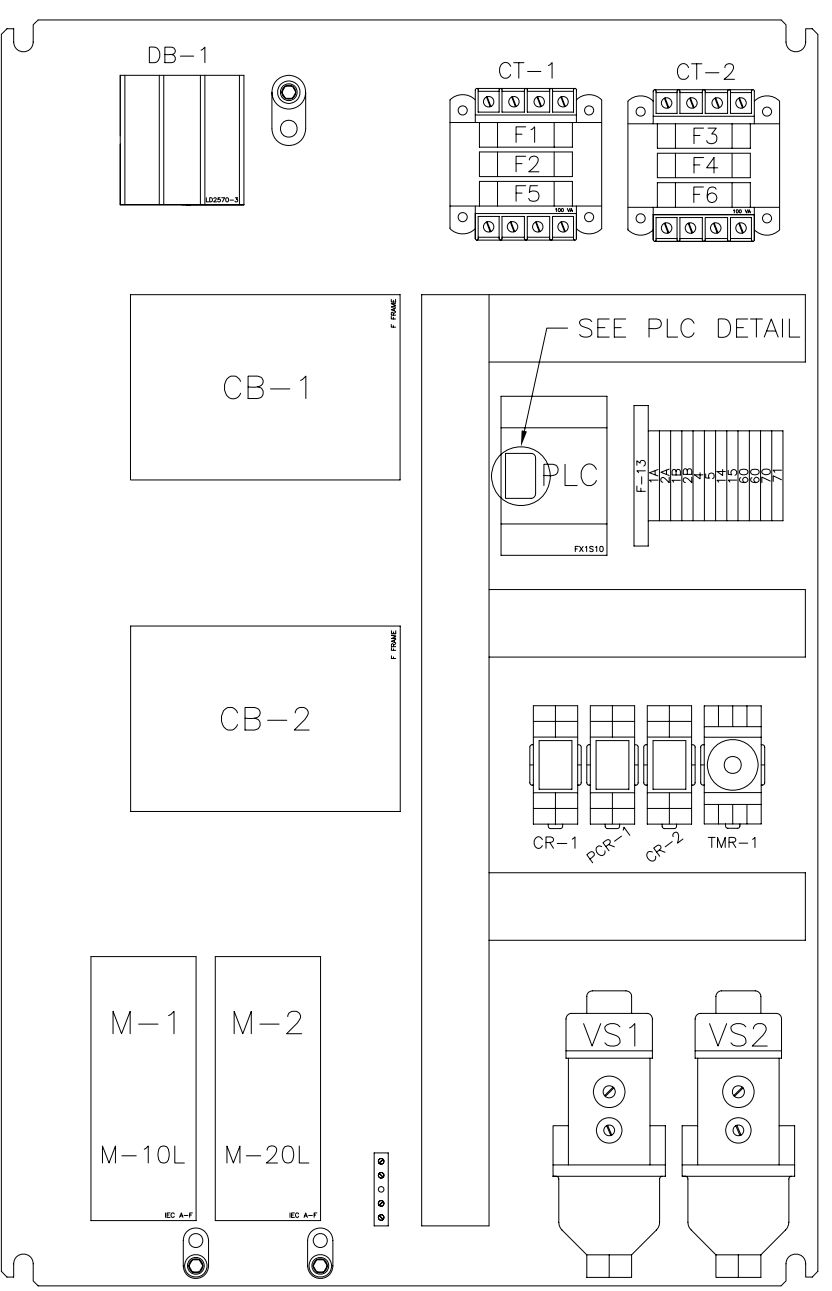


TMR-1 SETTINGS (GE1A-C10M)
RANGE SEL S
RANGE SEL X10
SET DIAL ON 1 (10 SECONDS)

AUXILIARY CONTACTS



(LAG CONTACTS CR-1 CLOSED DURING NORMAL OPERATION)



OPERATION:

DURING NORMAL OPERATION THE HOA SWITCHES SHOULD BE IN THE AUTO POSITION. THE PLC WILL SIGNAL THE LEAD PUMP TO START WHEN VS-1 CLOSES WITH FALLING VACUUM LEVEL. AFTER VS-1 OPENS AND THE ADJUSTABLE MINIMUM RUN TIMER (SEE NOTE) HAS EXPIRED THE PUMP THAT IS RUNNING WILL TURN OFF. WHEN VS-1 CLOSES AGAIN THE PLC WILL SEQUENCE THE LEAD ROLE TO THE NEXT PUMP. IF DURING OPERATION THE SECOND PUMP IS REQUIRED TO COME ON, THE PLC WILL TURN ON THE "LAG ALARM".

HAND OPERATION; (EMERGENCY/TROUBLE SHOOTING MODE ONLY):

PUMPS WITH THE HOA SWITCH IN THE HAND POSITION WILL START AND RUN CONTINUOUSLY.

PLC FAULT:

IF A PLC FAULT OCCURS, VACUUM PUMPS IN THE AUTO POSITION WILL START AND RUN CONTINUOUSLY. PUMPS CAN OPERATE IN THIS CONDITION UNTIL PLC FAULT IS REPAIRED.

NOTE:
AUXILIARY CONTACTS 70-71 ARE "CLASS 1 CONTROL CIRCUITS, USE CLASS 1 CONDUCTORS"
ALL OTHERS ARE "CLASS 2 CONTROL CIRCUITS, USE CLASS 2 CONDUCTORS"

BEACONMEDES

TITLE
DUPLEX LIQUID RING VACUUM
1-10 HP 208/230/460/575 VOLT

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