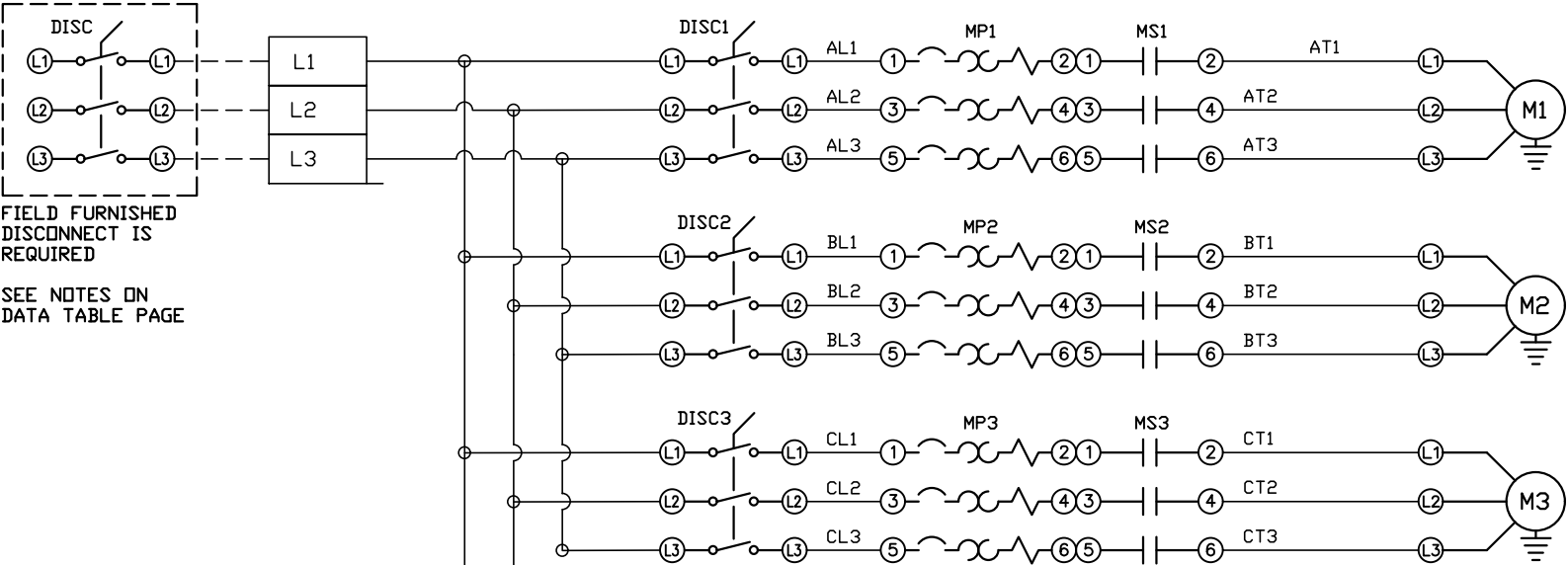




A
POWER
PLEX #1
MP1

B
POWER
PLEX #2
MP2

C
POWER
PLEX #3
MP3

POWER
120V CONTROL
FU1&2 A, B

SEE DIAGRAM
INCLUDED WITH
XFRMR FOR
CONNECTIONS

01
PRIMARY
TRANSFORMER ON
CR1 62

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

OPTIONAL:

POWEREX™

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

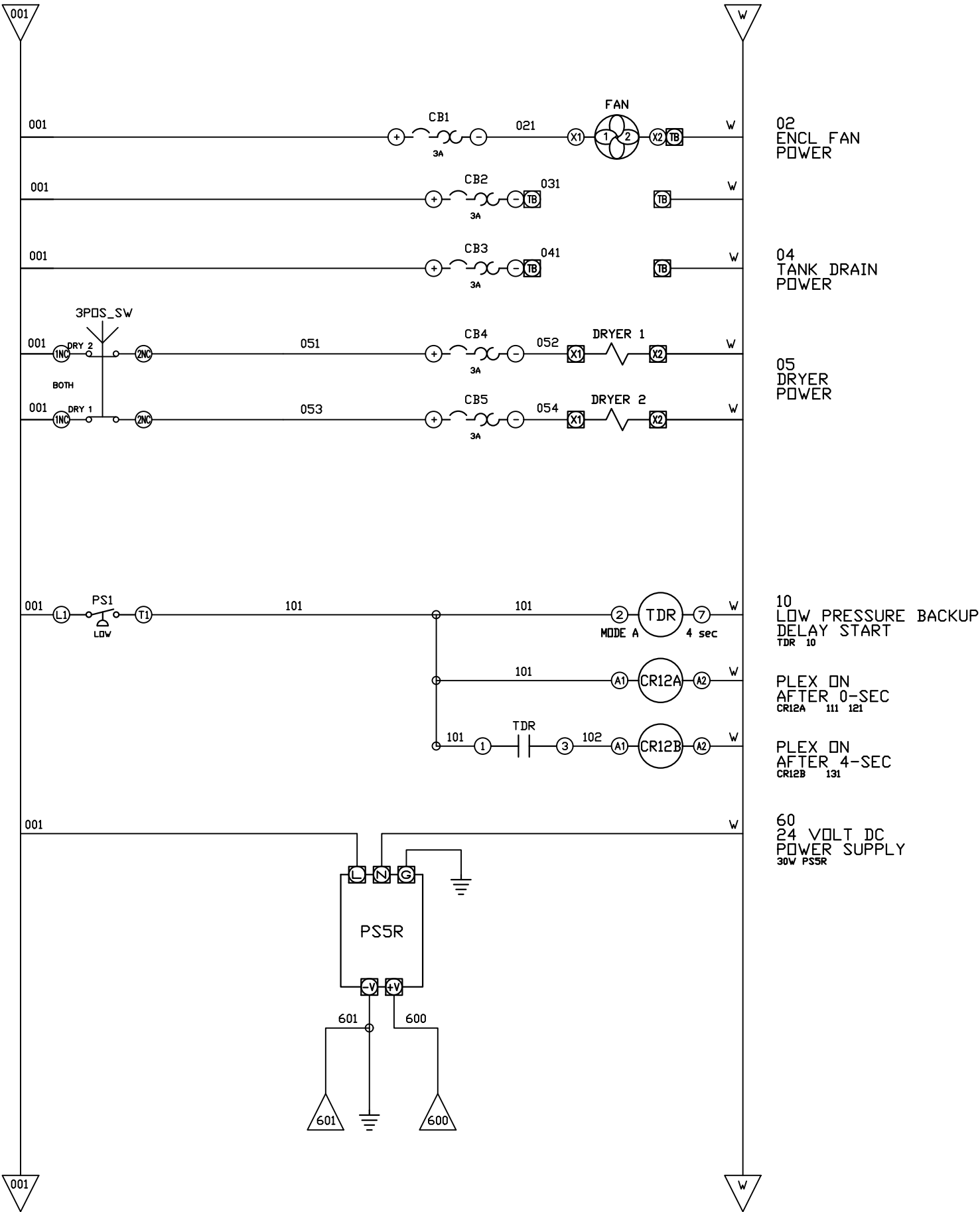
PANEL TYPE
INST. AIR TRIPLEX
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PBIA-369

SHEET	SIZE
W-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

PANEL TYPE

INST. AIR TRIPLEX
HMI, NFPA

DWG. TYPE WIRING

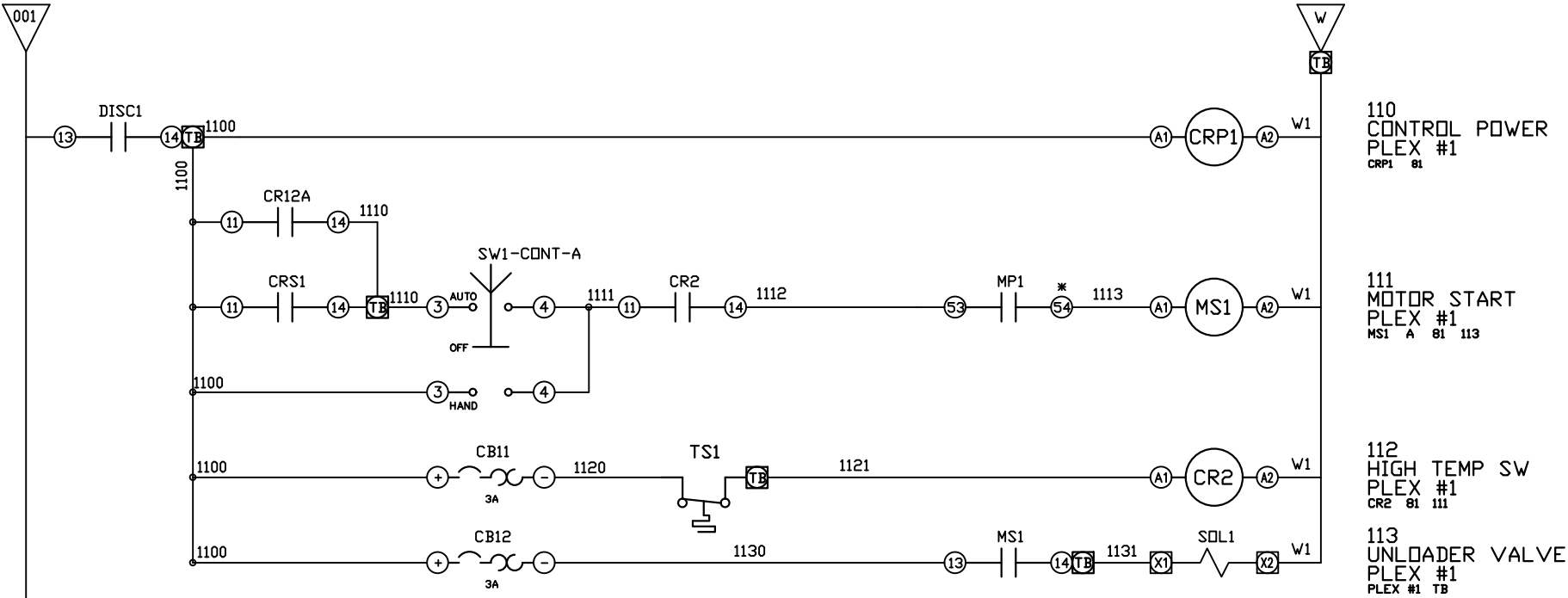
DWG. NO.

PBIA-369

SHEET	SIZE
W-2	B

PBIA-369

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

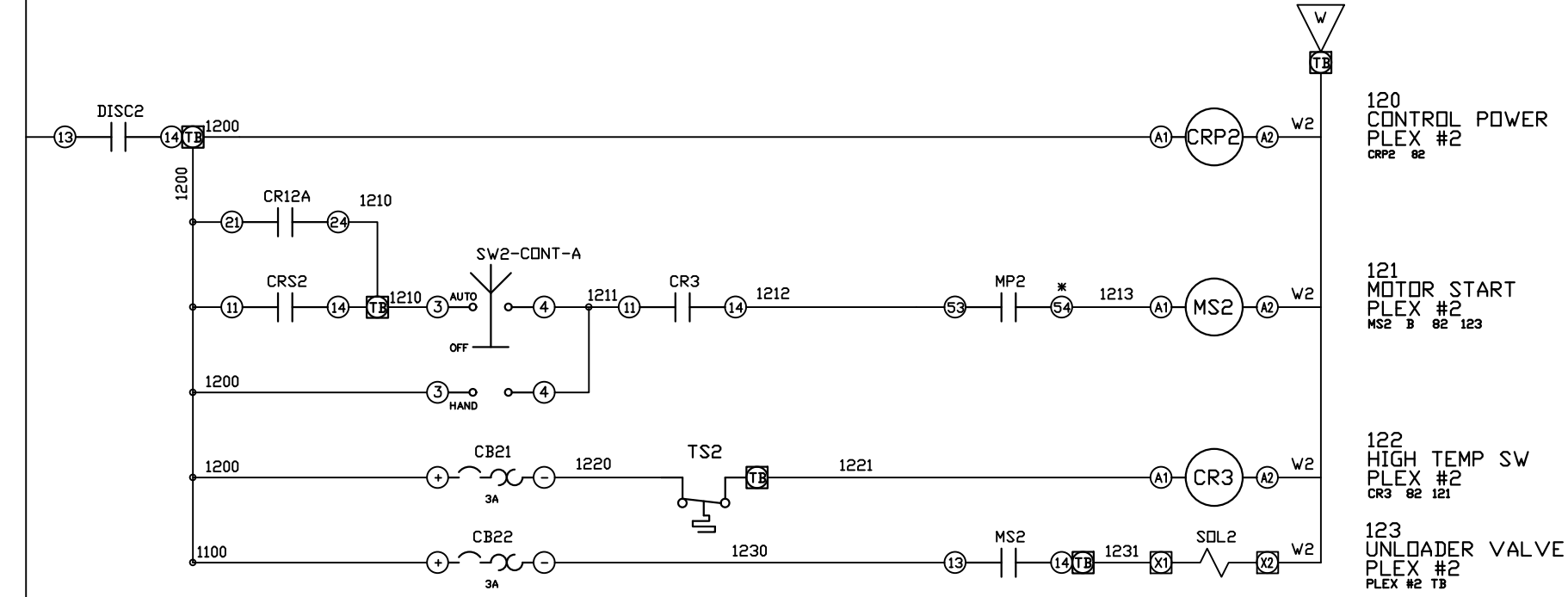


110
CONTROL POWER
PLEX #1
CRP1 81

111
MOTOR START
PLEX #1
MS1 A 81 113

112
HIGH TEMP SW
PLEX #1
CR2 81 111

113
UNLOADER VALVE
PLEX #1
PLEX #1 TB



120
CONTROL POWER
PLEX #2
CRP2 82

121
MOTOR START
PLEX #2
MS2 B 82 123

122
HIGH TEMP SW
PLEX #2
CR3 82 121

123
UNLOADER VALVE
PLEX #2
PLEX #2 TB

* FOR LAYOUT-B MOTOR PROTECTORS
USE PINS #1 AND #4 ON AUX CONTACTS

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

PANEL TYPE

INST. AIR TRIPLEX
HMI, NFPA

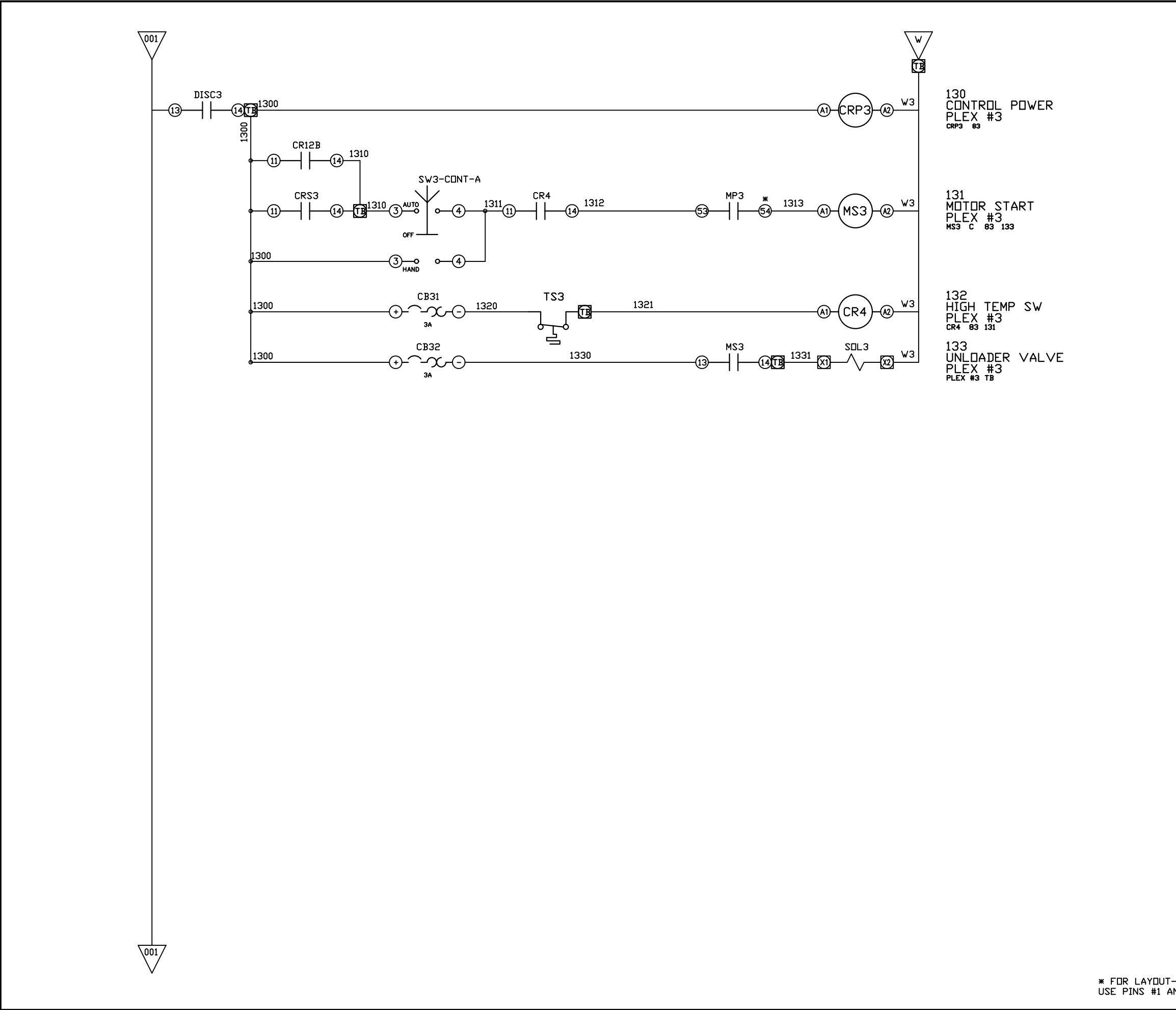
DWG. TYPE WIRING

DWG. NO.

PBIA-369

SHEET	SIZE
W-3	B

PBIA-369



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

PANEL TYPE
INST. AIR TRIPLEX
HMI, NFPA

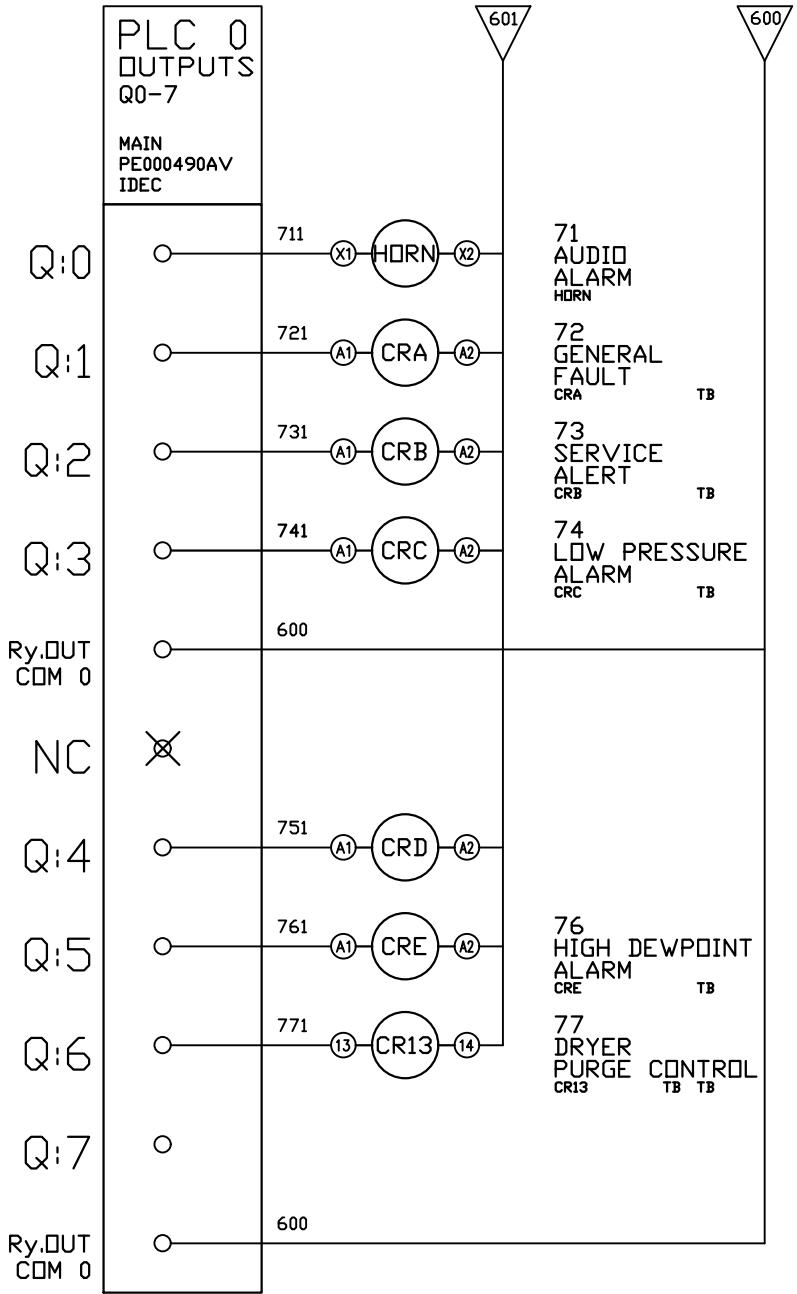
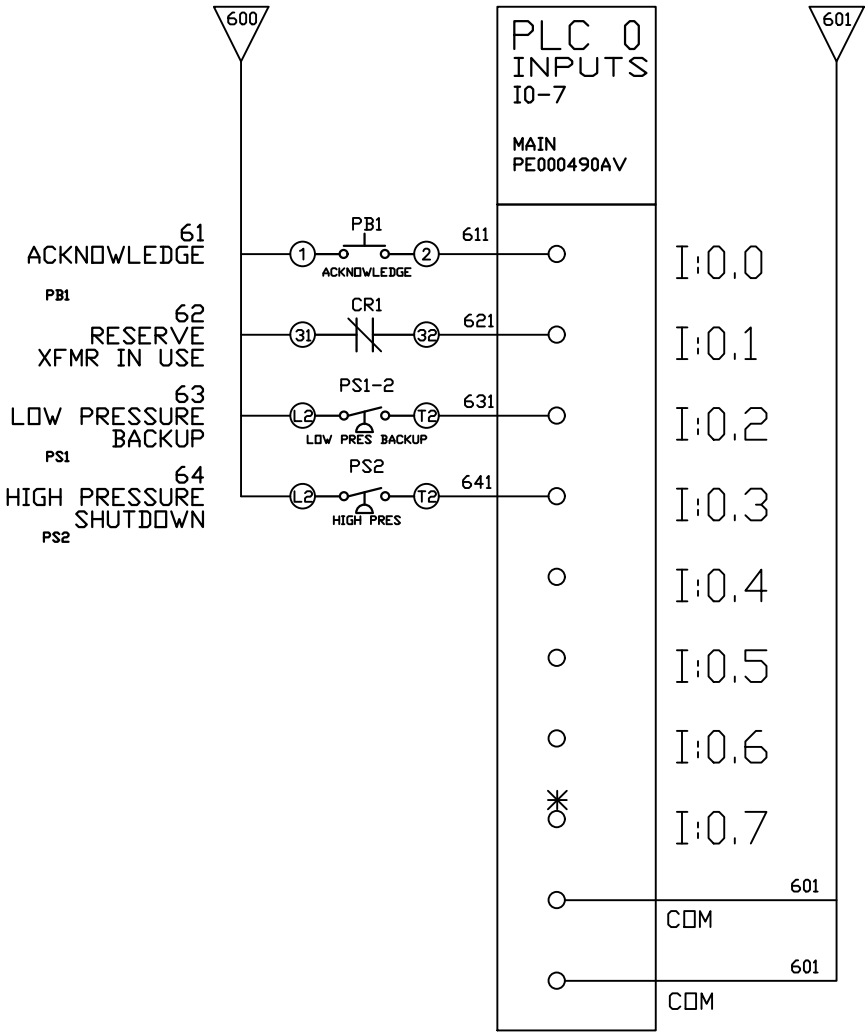
DWG. TYPE WIRING

DWG. NO.
PBIA-369

SHEET	SIZE
W-4	B

* FOR LAYOUT-B MOTOR PROTECTORS
USE PINS #1 AND #4 ON AUX CONTACTS

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

PANEL TYPE

INST. AIR TRIPLEX
HMI, NFPA

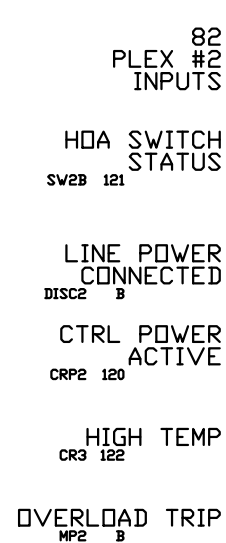
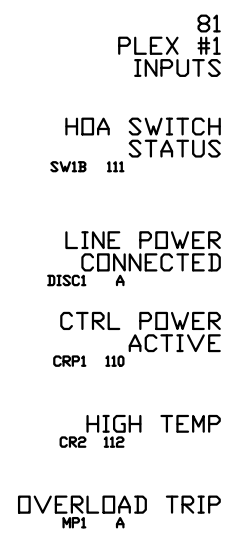
DWG. TYPE WIRING

DWG. NO.

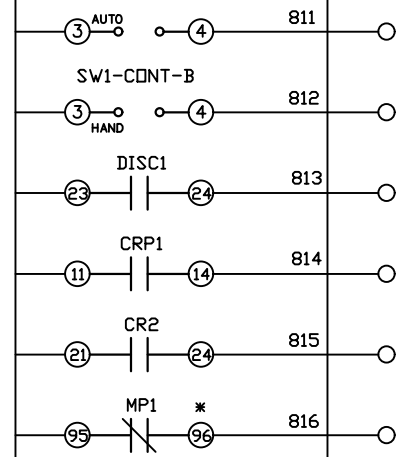
PBIA-369

SHEET	SIZE
W-6	B

PBIA-369



RUNG #81
PLEX #1 INPUTS



I:0.0

I:0.1

I:0.2

I:0.3

I:0.4

T:0.5

T:0.6

107

601
602

601

11

1:00.10

1:0.11

1:0.12

I:0.13

I:0.14

I:0.15

I:0.1€

I:0.17

601
COM

601
СПМ

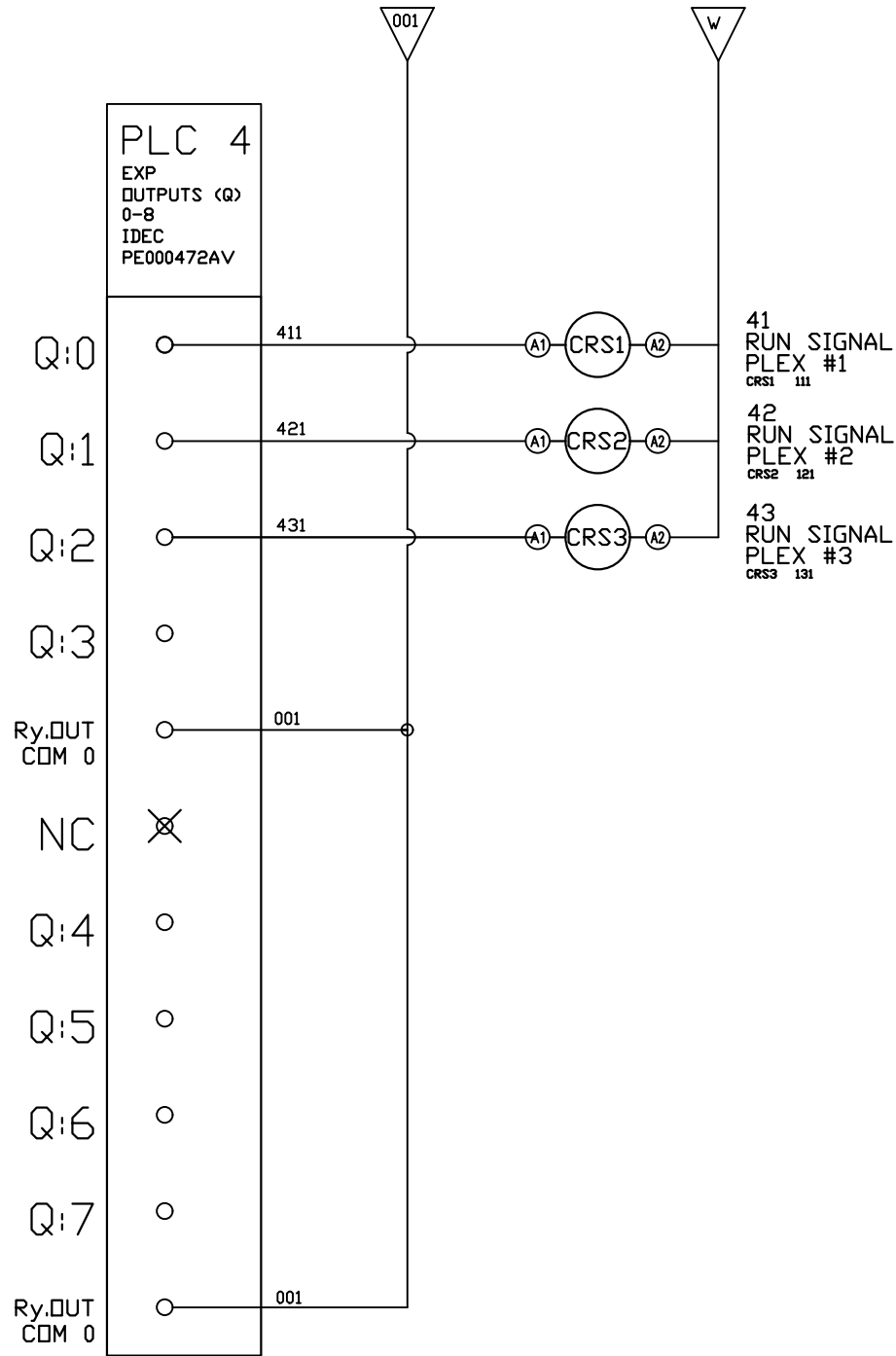
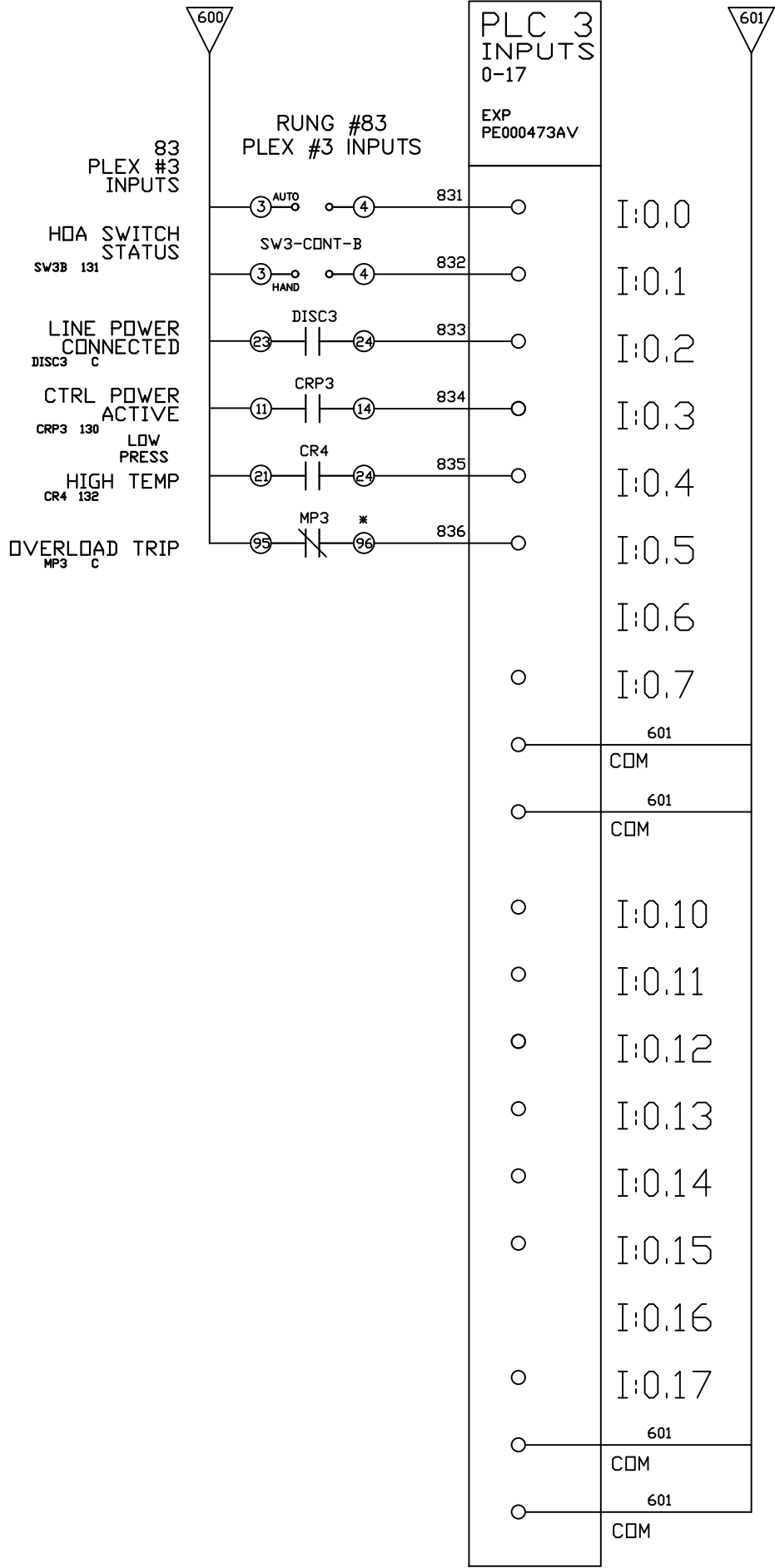
OPTIONAL:



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PANEL TYPE
INST. AIR TRIPLEX
HMI, NFPA

SHEET	SIZE
W-7	B
PBIA-369	



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

PANEL TYPE

INST. AIR TRIPLEX
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.

PBIA-369

SHEET	SIZE
W-8	B

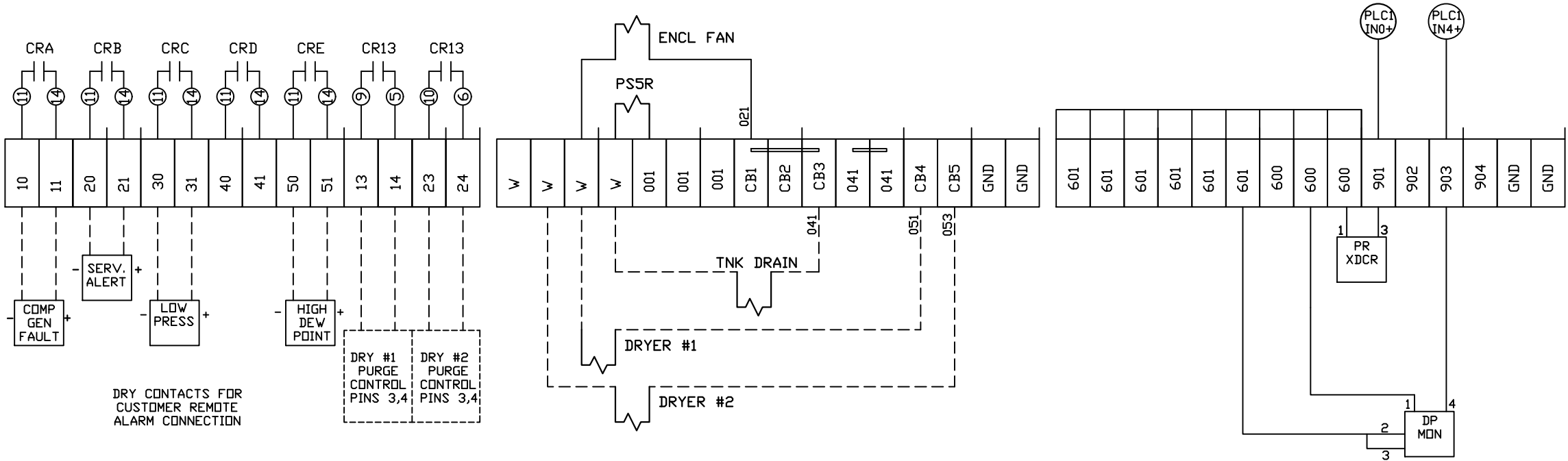
PBIA-369

* FOR LAYOUT-B MOTOR PROTECTORS USE PINS #1 AND #4 ON AUX CONTACTS

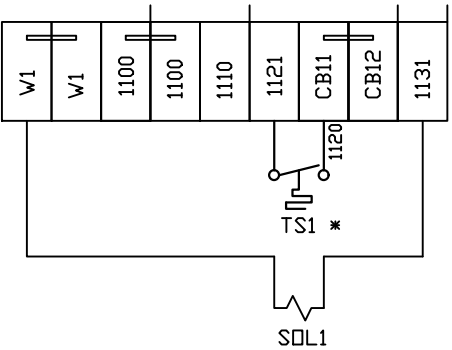
REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

TERMINAL BLOCKS

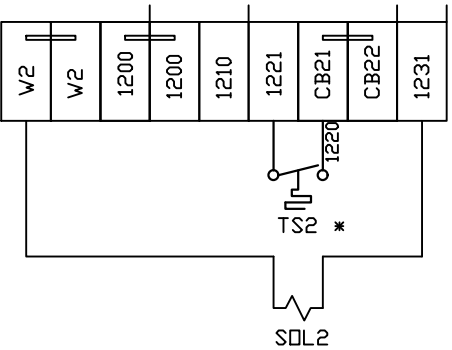
120 VOLT
SUPPLY TO
DRYERS,DRAIN,
MONITORS



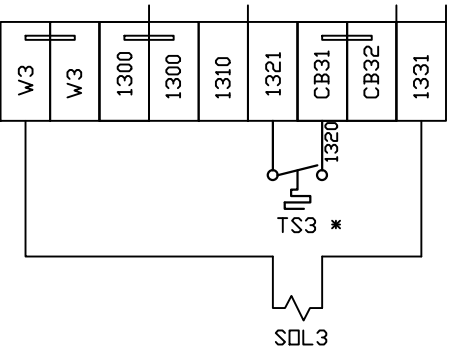
PLEX #1 CONNECTIONS



PLEX #2 CONNECTIONS



PLEX #3 CONNECTIONS



FIELD WIRING NOTES:

- PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
- TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY.
- FIELD WIRING INDICATED BY -----, WIRE TO BE COPPER RATED AT 75° C.
- ALL ALARM DRY CONTACTS ARE CLOSED FOR NORMAL OPERATION AND OPEN IN ALARM.
- DRY CONTACT RATING: 30V DC/2A (resistive load, inductive load L/R = 7 ms)
- USE CAT-5 CABLE W/RJ45 CONNECTOR FOR ETHERNET CONNECTION TO COMMUNICATION NETWORK OR BAS SYSTEM

*** IF MULTIPLE TEMP SWITCHES PER PLEX,
CONNECT SWITCHES IN SERIES.

OPTIONAL:

POWEREX™

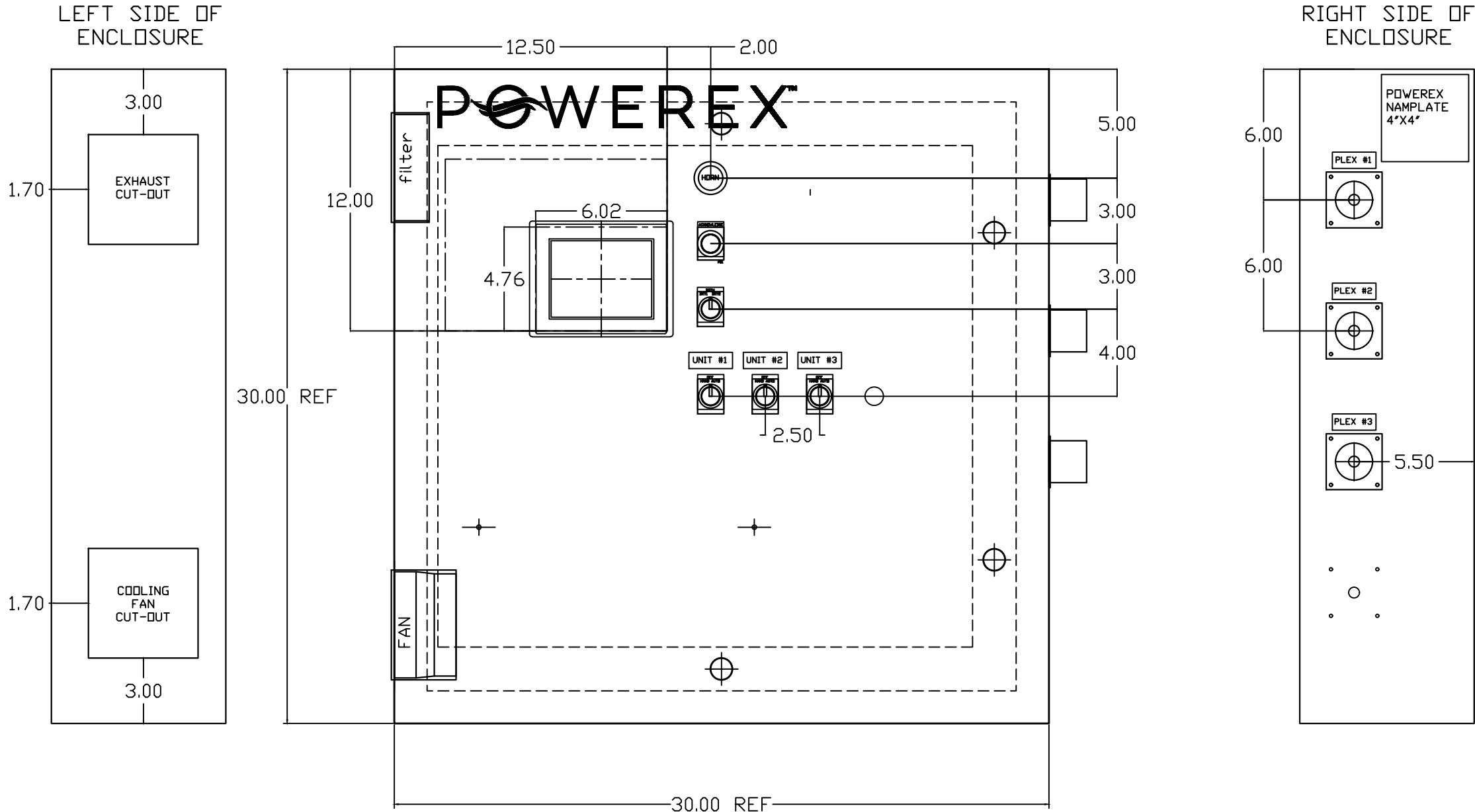
CONFIDENTIAL DISCLOSURE:
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

PANEL TYPE	
INST. AIR TRIPLEX HMI, NFPA	
DWG. TYPE WIRING	
DWG. NO.	
PBIA-369	

SHEET	SIZE
W-9	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

PANEL TYPE

INST. AIR TRIPLEX
HMI, NFPA

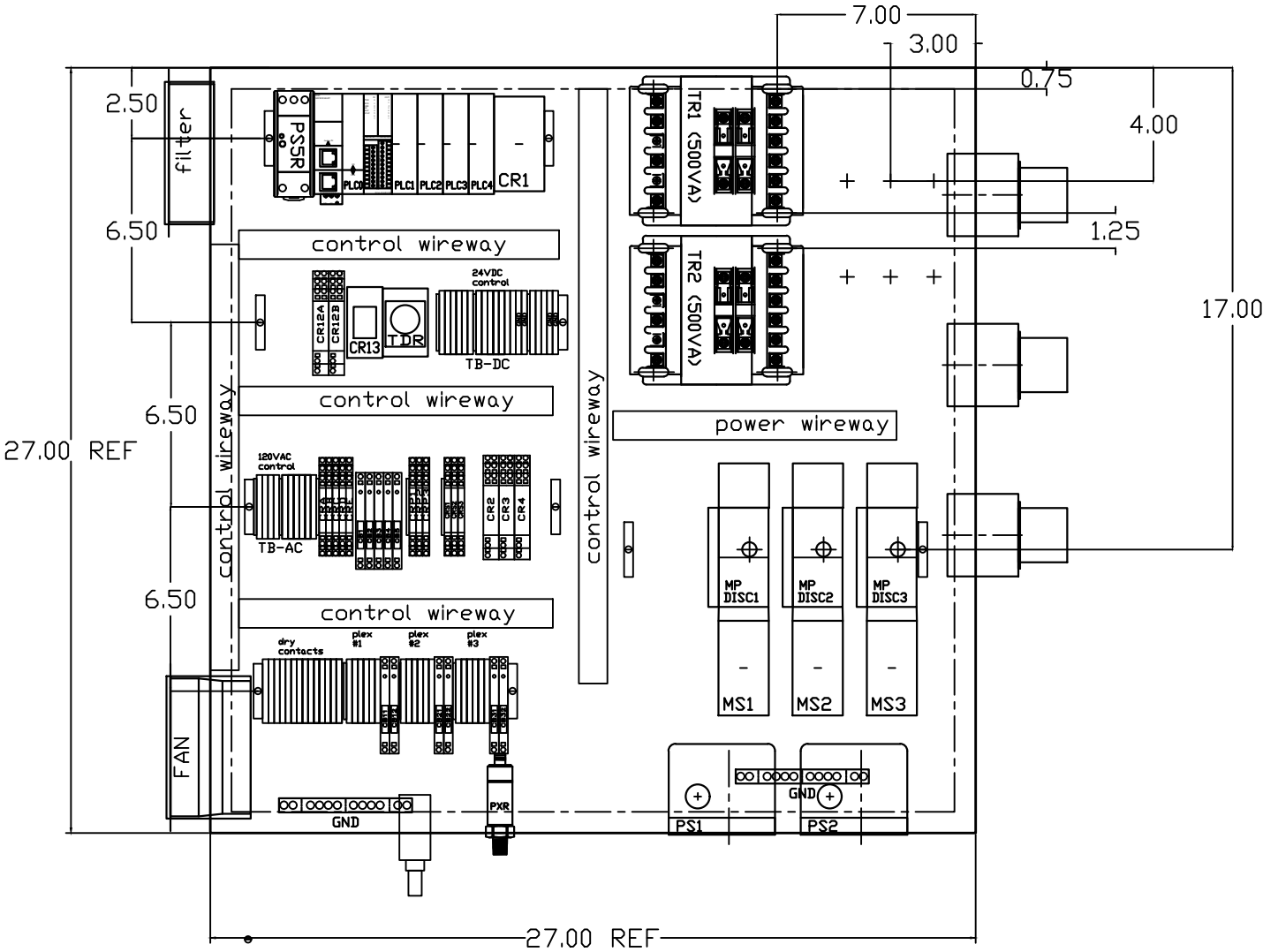
DWG. TYPE LAYOUT

DWG. NO. PBIA-369

SHEET	SIZE
LA-1	B

PBIA-369

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



OPTIONAL:

POWEREX

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

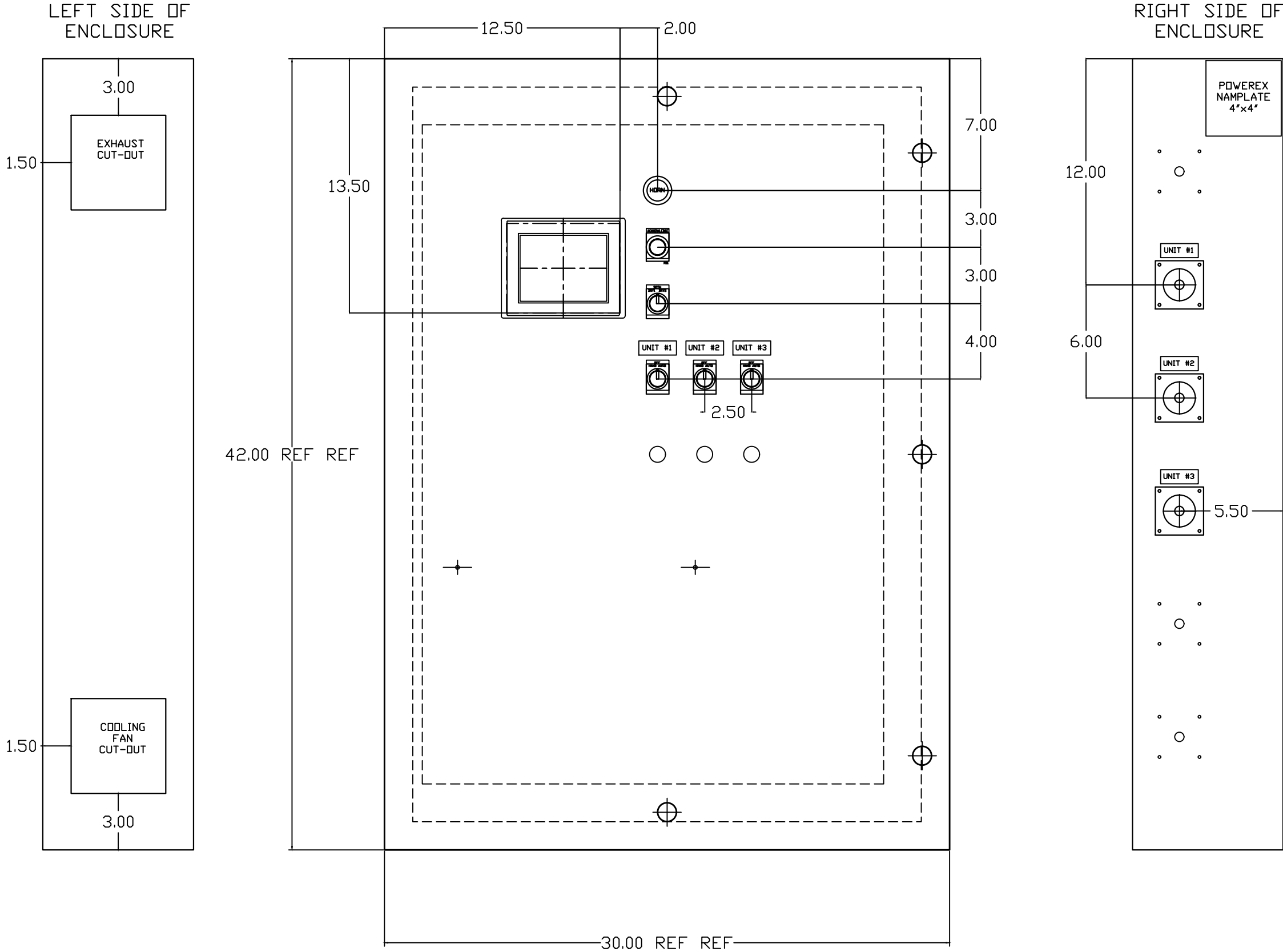
PANEL TYPE
INST. AIR TRIPLEX
HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO.
PBIA-369

SHEET	SIZE
LA-2	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

PANEL TYPE

INST. AIR TRIPLEX
HMI, NFPA

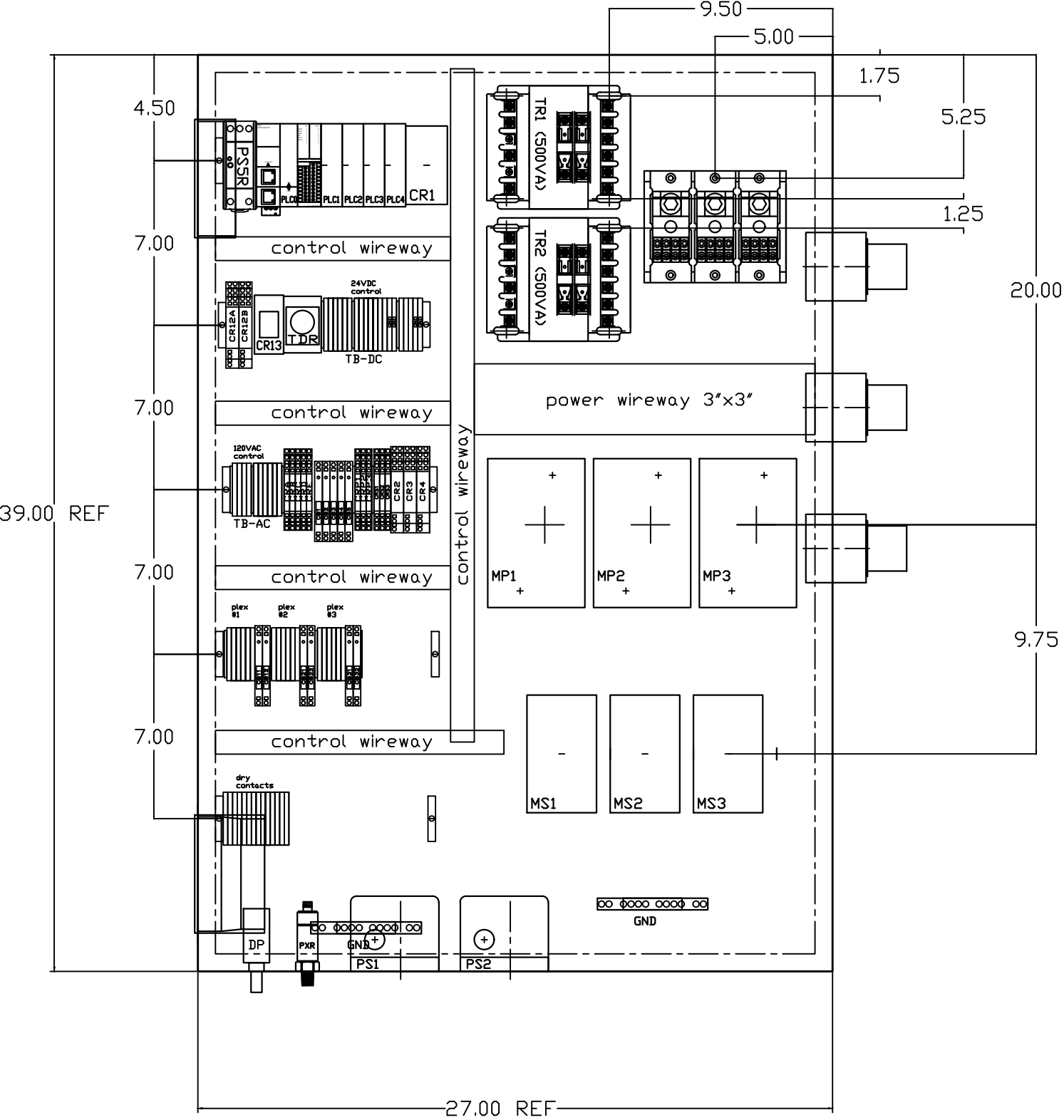
DWG. TYPE LAYOUT

DWG. NO. PBIA-369

SHEET	SIZE
LB-1	B

PBIA-369

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	AJL
C-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
D-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	KMD
09/15/23	09/15/23	09/15/23

PANEL TYPE

INST. AIR TRIPLEX
HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO. PBIA-369

SHEET	SIZE
LB-2	B

PBIA-369

TABLE 1	P/N	MOTOR FULL LOAD AMPS	TOTAL FULL LOAD AMPS	NON-TIME DELAY FUSE	TIME DELAY FUSE	INVERSE- TIME CIRCUIT BREAKER
208V (3Ø)	02AJ	4.1	14.3	25	20	25
	12AJ	4.5	15.5	25	20	25
	22AJ	5.6	18.8	30	25	30
	32AJ	8.8	28.4	50	35	45
	52AJ	14.6	45.8	80	60	70
	72AJ	20.5	63.5	110	80	100
	A2AJ *	27.4	84.2	150	125	150
	F2AJ *	41.1	125.3	225	175	200
230V (3Ø)	03AJ	3.6	12.8	20	20	20
	13AJ	4.4	15.2	25	20	25
	23AJ	5.8	19.4	35	25	30
	33AJ	7.7	25.1	45	35	40
	53AJ	12.7	40.1	70	50	60
	73AJ	18.5	57.5	100	80	90
	A3AJ	24.8	76.4	150	100	125
	F3AJ *	37.2	113.6	200	150	175
460V (3Ø)	04AJ	1.8	7.4	15	10	15
	14AJ	2.2	8.6	15	10	15
	24AJ	2.7	10.1	20	15	15
	34AJ	3.9	13.7	25	20	25
	54AJ	6.3	20.9	35	30	35
	74AJ	9.3	29.9	50	40	45
	A4AJ	12.4	39.2	70	50	60
	F4AJ	18.6	57.8	100	80	90
380V (3Ø) 50HZ	08AJ					
	18AJ					
	28AJ	3.4	12.2	20	15	20
	38AJ	4.6	15.8	25	20	25
	58AJ	7.7	25.1	45	35	40
	78AJ	11.1	35.3	60	45	60
	A8AJ	14.9	46.7	80	60	70
	F8AJ	22.1	68.3	125	90	125
575V (3Ø)	07AJ	1.1	5.3	10	10	10
	17AJ					
	27AJ	2.3	8.9	15	15	15
	37AJ	3.1	11.3	20	15	20
	57AJ	5.1	17.3	30	25	30
	77AJ	6.9	22.7	40	30	35
	A7AJ	9.9	31.7	60	40	50
	F7AJ	14.9	46.7	80	60	70

NOTES:

1. RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
208-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
2. PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
3. INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE FOR THIS ELECTRICAL ASSEMBLY. SHORT CIRCUIT PROTECTION IS RECOMMENDED. SEE TABLE 1. IF PROVIDING PANEL SHORT CIRCUIT PROTECTION USING TIME DELAY (CLASS J) FUSES, PANEL SCCR IS 65KA. OTHERWISE, PANEL SCCR IS 5KA.
4. ALL WIRES MUST BE LABELED ON BOTH ENDS
5. TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
6. △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.
7. TEST MODE JUMPER WILL CHANGE ALTERNATION CYCLE AND MINIMUM RUN TIMERS. USE WITHOUT AUTHORIZATION MAY CAUSE UNSTABLE OPERATION. CONSULT FACTORY BEFORE USE.
8. SERVICE DISCONNECT USAGE - turn HOA switch to OFF position. Turn disconnect OF SAME UNIT to OFF position. Associated PLEX will be isolated for maintenance purposes. After completing maintenance, turn disconnect to ON position and return HOA switch to AUTO. This will return PLEX to normal operation.

CONTROL TRANSFORMERS - 500VA					WIRE TYPE TABLE			
REPLACEMENT	208	230	460	575				
FUSE TYPE	VOLT	VOLT	380 VOLT	VOLT	VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
FU1,2A FU1,2B	FNQR (CC)	6A	5A	5A	4A	120VAC 0VAC 24VDC 0VDC GND CUSTOMER SUPPLY	001-599,1100+ W 600-1099 601 - 01-99	16-18AWG RED/BLK 16-18AWG WHT/BLK 16-18AWG PURPLE 16-18AWG PURPLE VARIES GREEN 16-18AWG YELLOW
FU3A,B	FNM	7A	7A	7A	7A			
SEE XFRMR FOR CONNECTIONS								

SEQUENCE OF OPERATIONS

During normal operation the PBMI controller will signal the Lead compressor to run when pressure drops below lead cut-in set-point and stop when the pressure reaches the lead cut-out set-point. Lead alternation to the next pump, will occur every 60-minutes. If demand cannot be satisfied by the lead pump, the lag pump(s) will start and stop based upon the lag cut-in and cut-out set-points. The HOA switch’s place the pump in the following modes: Hand-turns pump on to run continuous. Off-disables pump from running. Auto-places pump in the “ready mode” and will start and stop based on sequence described above.

All plex configurations include a hardwired backup pressure switch circuit should a control failure occur. This circuit will call all pumps on and off based on the reserve pressure switch set-points.

Expandable systems include all control devices, operators, and programming for the maximum number of pumps required. To expand the system: navigate to the “Service Info” screen and enter the number of pumps (or plex).

Additional information and descriptions can be accessed through the HMI’s “Service Info” screen by pressing Sequence of Operations button.

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/12/12	22545	BFH	CHR
C-1	ADDED 380/575V	02/26/13	PXEC0030	BFH	CHR
D-1	FORMAT UPDATE	03/04/13	PXEC0038	BFH	CHR

OPTIONAL:

208V-575V



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DRAWN BY

BFH

CHECKED BY

CHR

ENGINEERING APPROVAL

CHR

03/12/12

03/12/12

03/12/12

PANEL TYPE

COMPRESSOR DATA TABLE
3PH TRIPLEX PANEL DATA

DWG. TYPE

MISC

DWG. NO.

DATA TABLE

SHEET

D-1

SIZE

B

TRIPLEX PANEL DATA