

FIELD FURNISHED
DISCONNECT WITH
BRANCH CIRCUIT
PROTECTION IS
REQUIRED

SEE NOTE 3 ON
DATA TABLE PAGE

A
POWER
UNIT #1
MP1 10

B
POWER
UNIT #2
MP2 11

C
POWER
UNIT #3
MP3 12

D
POWER
UNIT #4
MP4 13

E
POWER
120V CONTROL
FU1&2 A, B

SEE DIAGRAM
INCLUDED WITH
XFRMR FOR
CONNECTIONS

01
PRIMARY
TRANSFORMER ON
CR1 00 02

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

QUAD INST AIR COMP
HMI

DWG. TYPE WIRING

DWG. NO.

PBIA-469

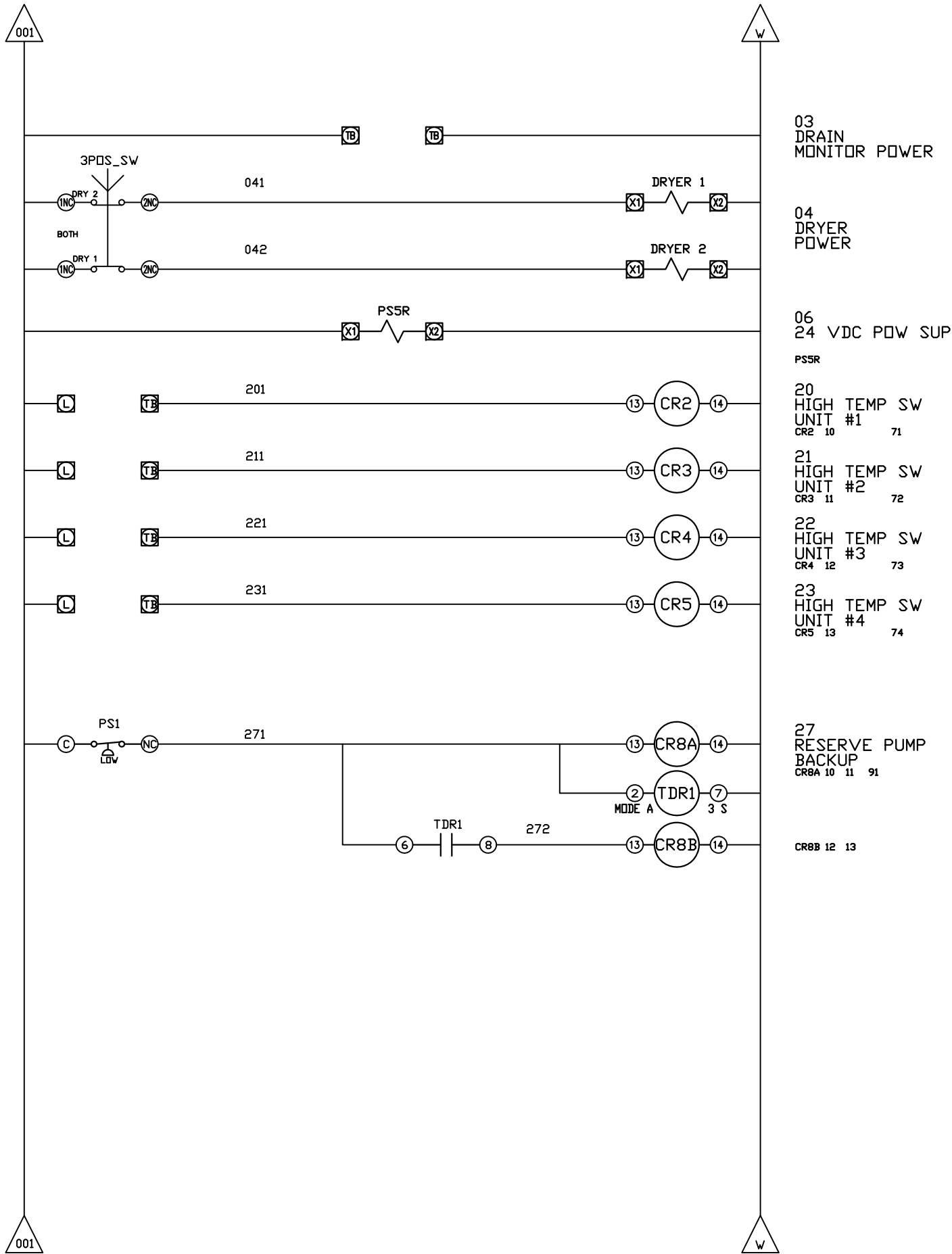
SHEET

W-1

SIZE

B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	KMD



OPTIONAL:

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09/15/23	09/15/23	09/15/23

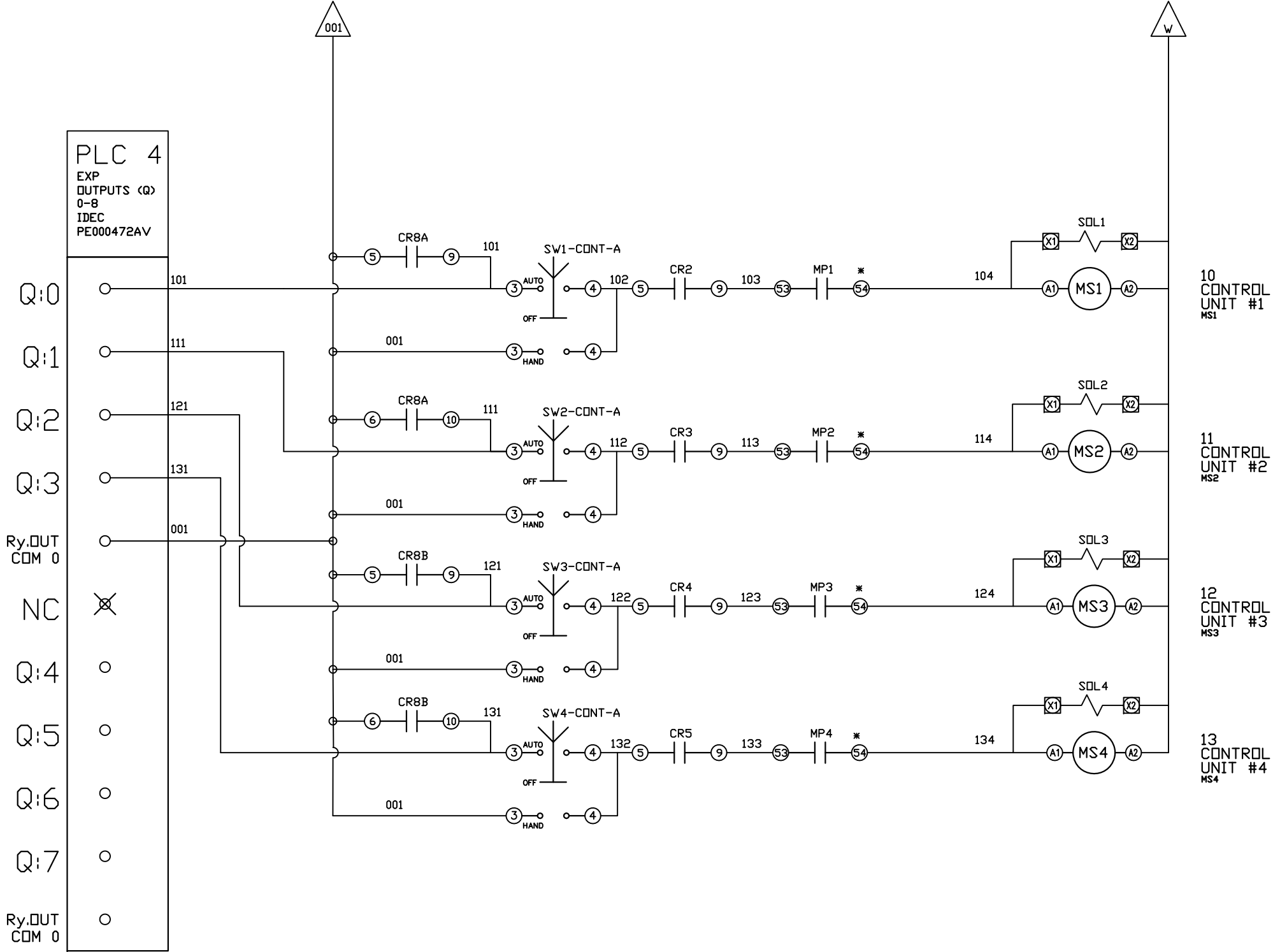
PANEL TYPE
QUAD INST AIR COMP
HMI

DWG. TYPE
WIRING

DWG. NO.
PBIA-469

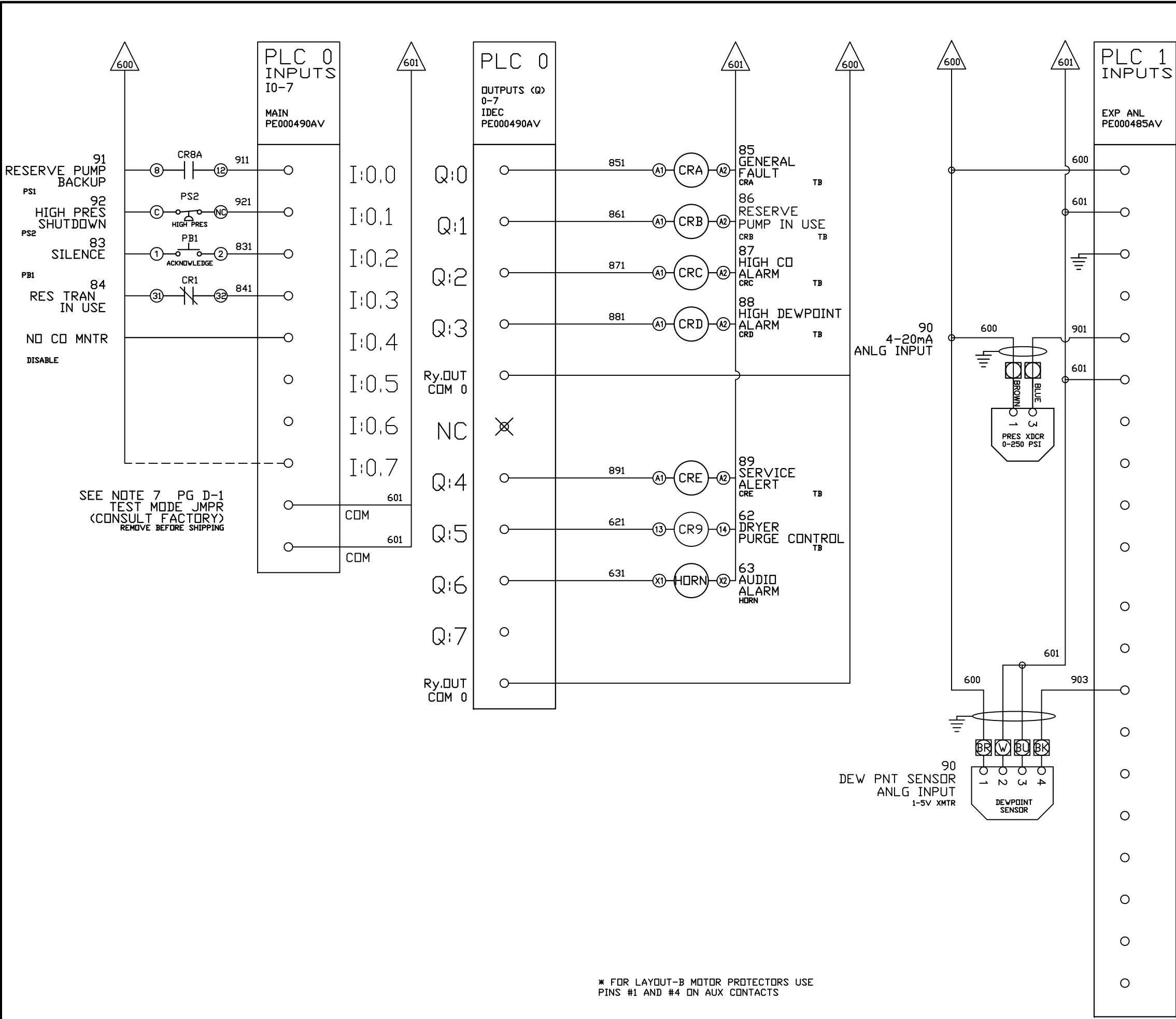
SHEET	SIZE
W-2	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	KMD



* FOR GV4 MOTOR PROTECTORS USE PINS
#1 AND #4 ON AUX CONTACT IN 'OF1' SLOT

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KMD	AJL	KMD
09/15/23	09/15/23	09/15/23
PANEL TYPE		
QUAD INST AIR COMP HMI		
DWG. TYPE WIRING		
DWG. NO. PBIA-469		
SHEET		SIZE
W-3		B



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	KMD

OPTIONAL:



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09/15/23	09/15/23	09/15/23

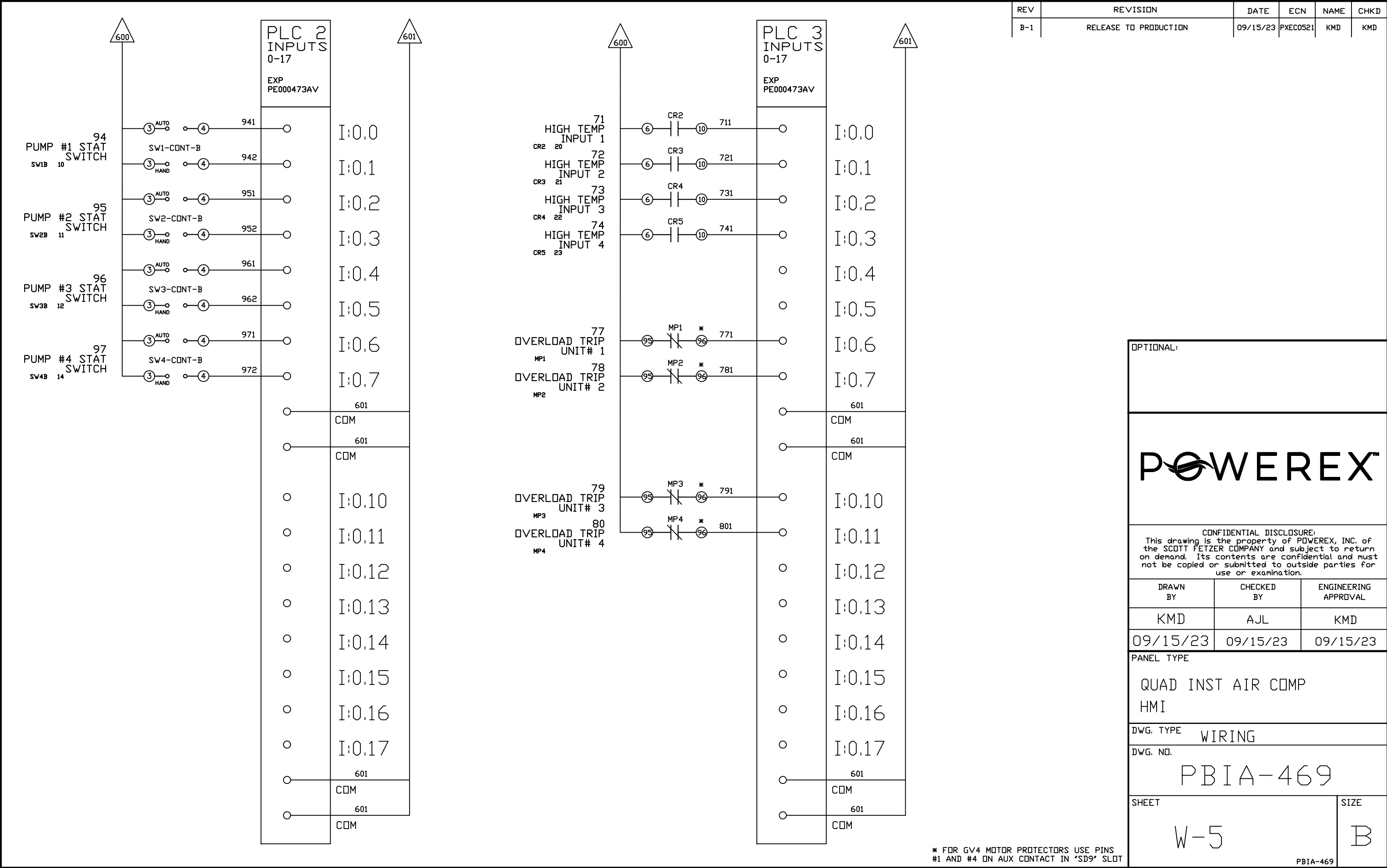
PANEL TYPE
QUAD INST AIR COMP
HMI

DWG. TYPE WIRING

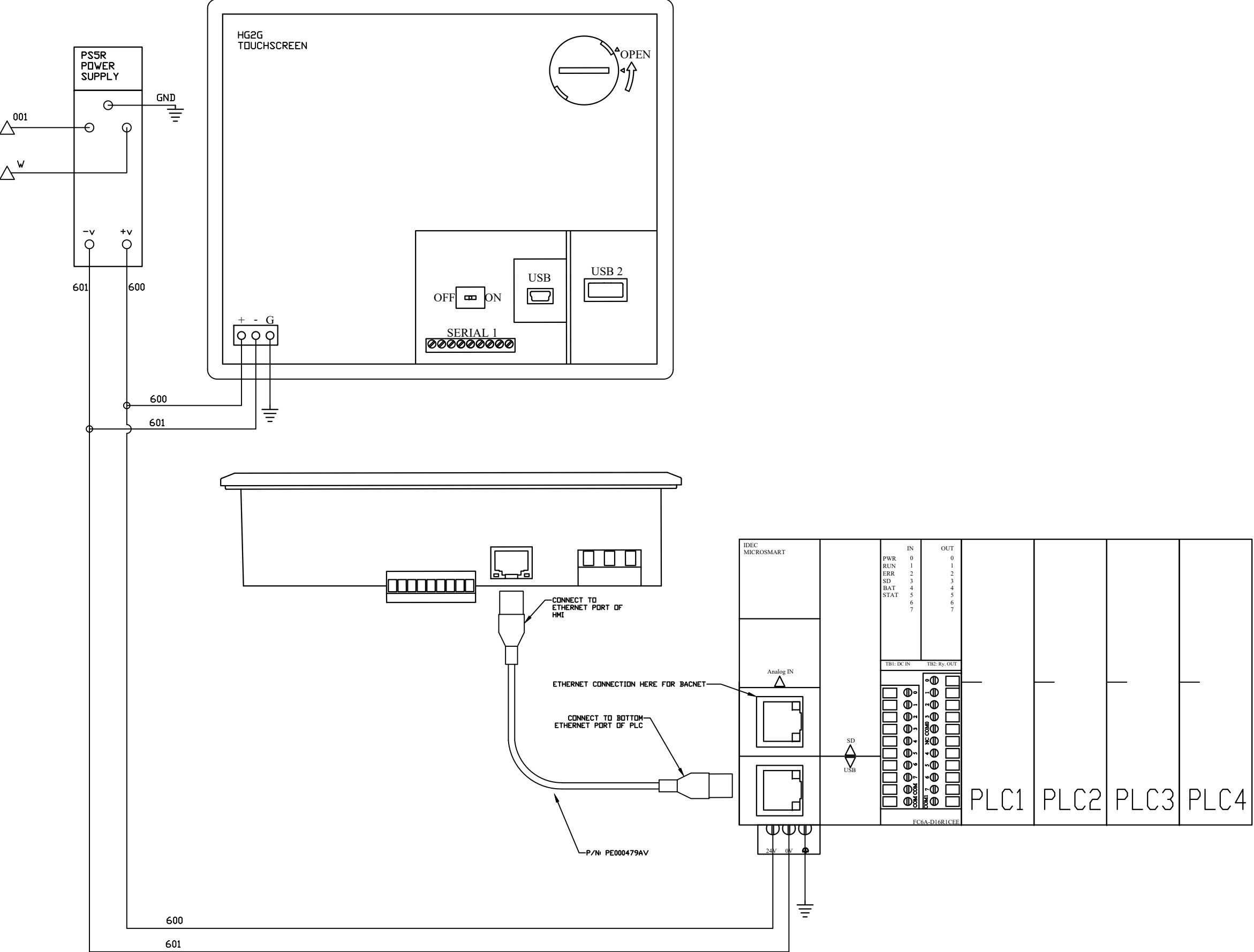
DWG. NO.
PBIA-469

SHEET	SIZE
W-4	B

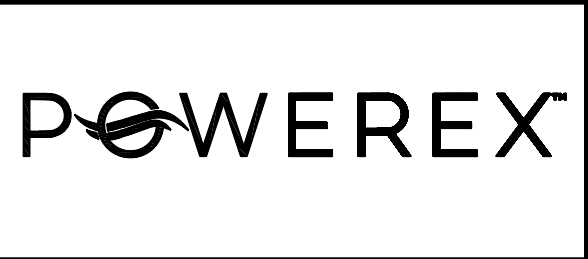
* FOR LAYOUT-B MOTOR PROTECTORS USE PINS #1 AND #4 ON AUX CONTACTS



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	KMD



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
QUAD INST AIR COMP
HMI

DWG. TYPE WIRING

DWG. NO.
PBIA-469

SHEET	SIZE
W-6	B

TABLE 1	P/N	MOTOR FULL LOAD AMPS	TOTAL FULL LOAD AMPS	NON-TIM E DELAY FUSE	TIME DELAY FUSE	INVERSE- TIME CIRCUIT BREAKER
208V (3Ø)	02AJ	4.1	18.4	30	25	30
	12AJ	4.5	20	30	25	30
	22AJ	6	26	40	35	40
	32AJ	8.5	36	60	45	50
	52AJ	14	58	90	70	80
	72AJ	20.5	84	125	100	125
	A2AJ *	27.4	111.6	175	150	175
	F2AJ *	41.1	166.4	250	200	250
230V (3Ø)	03AJ	3.6	16.4	25	20	25
	13AJ	4.4	19.6	30	25	30
	23AJ	5.8	25.2	40	30	35
	33AJ	7.7	32.8	50	40	45
	53AJ	12.7	52.8	80	70	80
	73AJ	18.5	76	125	90	110
	A3AJ	24.8	101.2	175	125	150
	F3AJ *	37.2	150.8	250	200	225
460V (3Ø)	04AJ	1.8	9.2	15	15	15
	14AJ	2.2	10.8	20	15	15
	24AJ	2.9	13.6	20	20	20
	34AJ	3.9	17.6	30	25	25
	54AJ	6.3	27.2	40	35	40
	74AJ	9.3	39.2	60	50	60
	A4AJ	12.4	51.6	80	70	80
	F4AJ	18.6	76.4	125	100	125
380V (3Ø)	08AJ					
	18AJ					
	28AJ	3.4	15.6	25	20	25
	38AJ	4.6	20.4	30	25	30
	58AJ	7.7	32.8	50	40	45
	78AJ	11.1	46.4	70	60	70
	A8AJ	14.9	61.6	100	80	90
	F8AJ	22.1	90.4	150	125	125
575V (3Ø)	07AJ	1.1	6.4	10	10	10
	17AJ					
	27AJ	2.3	11.2	20	15	20
	37AJ	3.1	14.4	25	20	20
	57AJ	5.1	22.4	35	30	35
	77AJ	6.9	29.6	45	35	45
	A7AJ	9.9	41.6	70	50	60
	F7AJ	14.9	61.6	100	80	90

- 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 WITH SHORT CIRCUIT PROTECTION FOR THIS ELECTRICAL ASSEMBLY. SEE TABLE 1 .

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. Δ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.

7. TEST MODE JUMPER WILL CHANGE ALTERNATION CYCLE AND MINIMUM RUM TIMERS. USE WITHOUT AUTHORIZATION MAY CAUSE UNSTABLE OPERATION. CONSULT FACTORY BEFORE USE.

FIELD WIRING NOTES ON PAGE W-7.

CONTROL TRANSFORMERS - 500VA					
FUSE		208	230	460 380	575
TYPE		VOLT	VOLT	VOLT	VOLT
FU1,2A FU1,2B	FNQR	6A	5A	5A	4A
FU3A,B	FNM	7A	7A	7A	7A
SEE XFRMR FOR CONNECTIONS					

WIRE TYPE TABLE			
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-699	16-18AWG	RED/BLK
0VAC	W	16-18AWG	WHT/BLK
24VDC	700-999	16-18AWG	PURPLE
0VDC	701	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16AWG	YELLOW

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	FORMAT UPDATE	03/04/13	PXEC0038	BFH	CHR

OPTIONAL:

208V/230V/460V

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BFH

CHECKED BY

CHR

ENGINEERING APPROVAL

CHR

03/12/12

03/12/12

03/12/12

PANEL TYPE

COMPRESSOR DATA TABLE
3PH 4-PLEX PANEL DATA

DWG. TYPE

MISC

DWG. NO.

DATA TABLE

SHEET

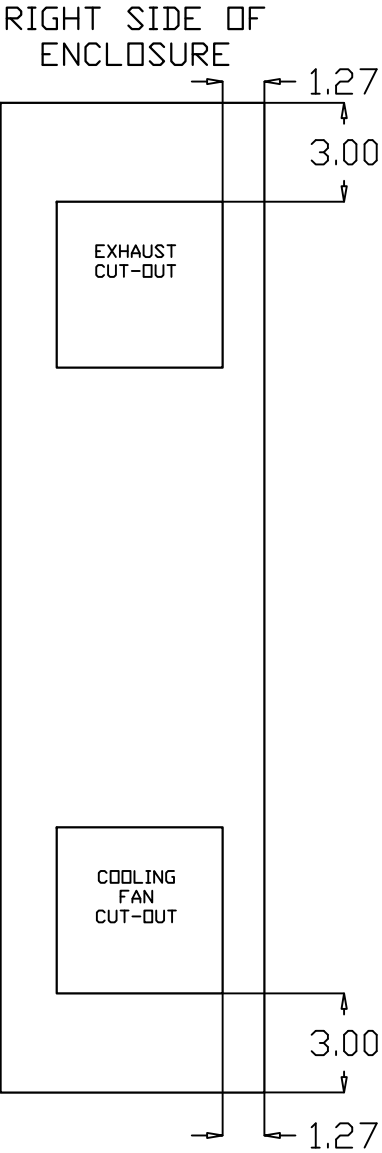
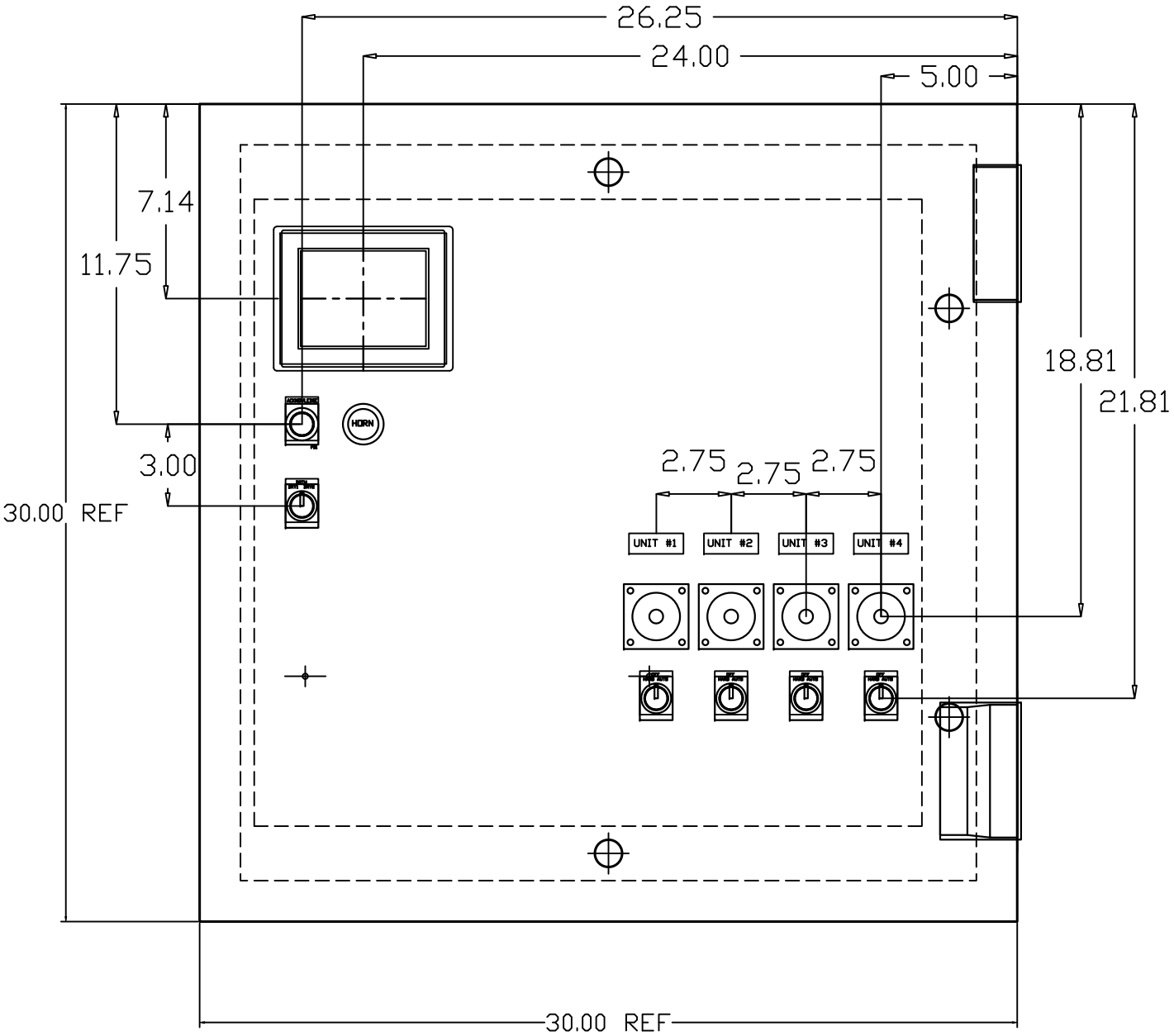
D-1

SIZE

B

4-PLEX PANEL DATA

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	KMD



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QUAD INST AIR COMP
HMI

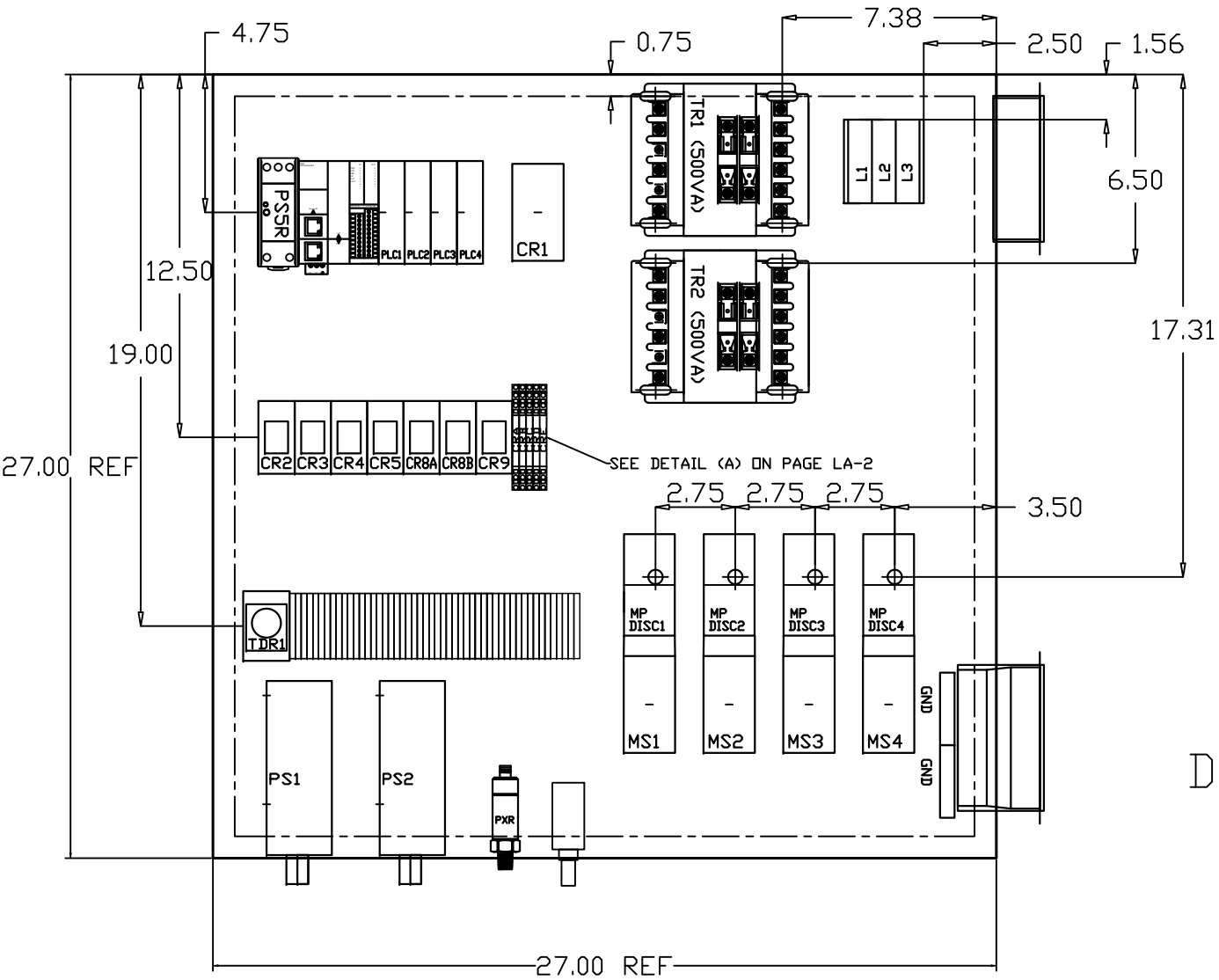
DWG. TYPE LAYOUT

DWG. NO. PBIA-469

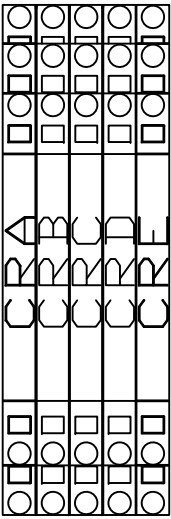
SHEET	SIZE
LA-1	B

PBIA-469

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	KMD



DETAIL (A)



OPTIONAL:

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PANEL TYPE

QUAD INST AIR COMP
HMI

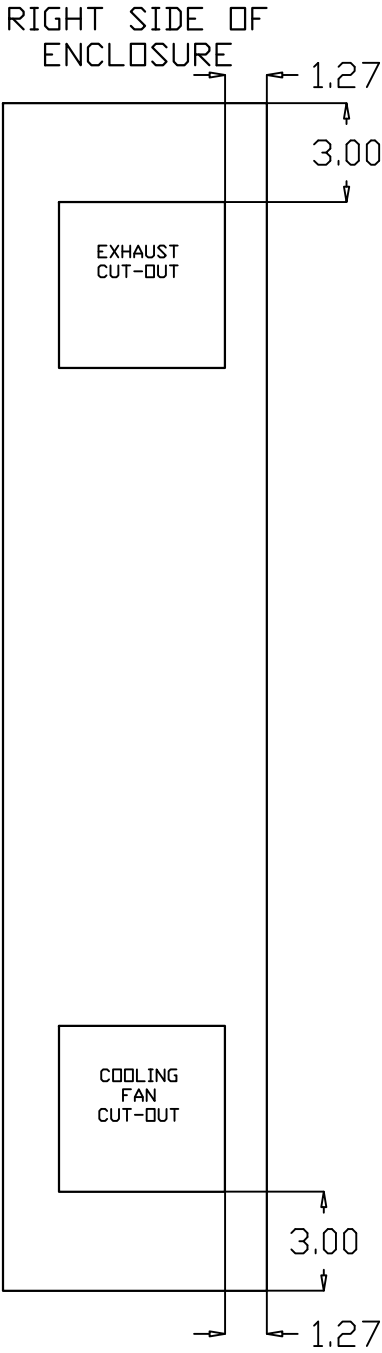
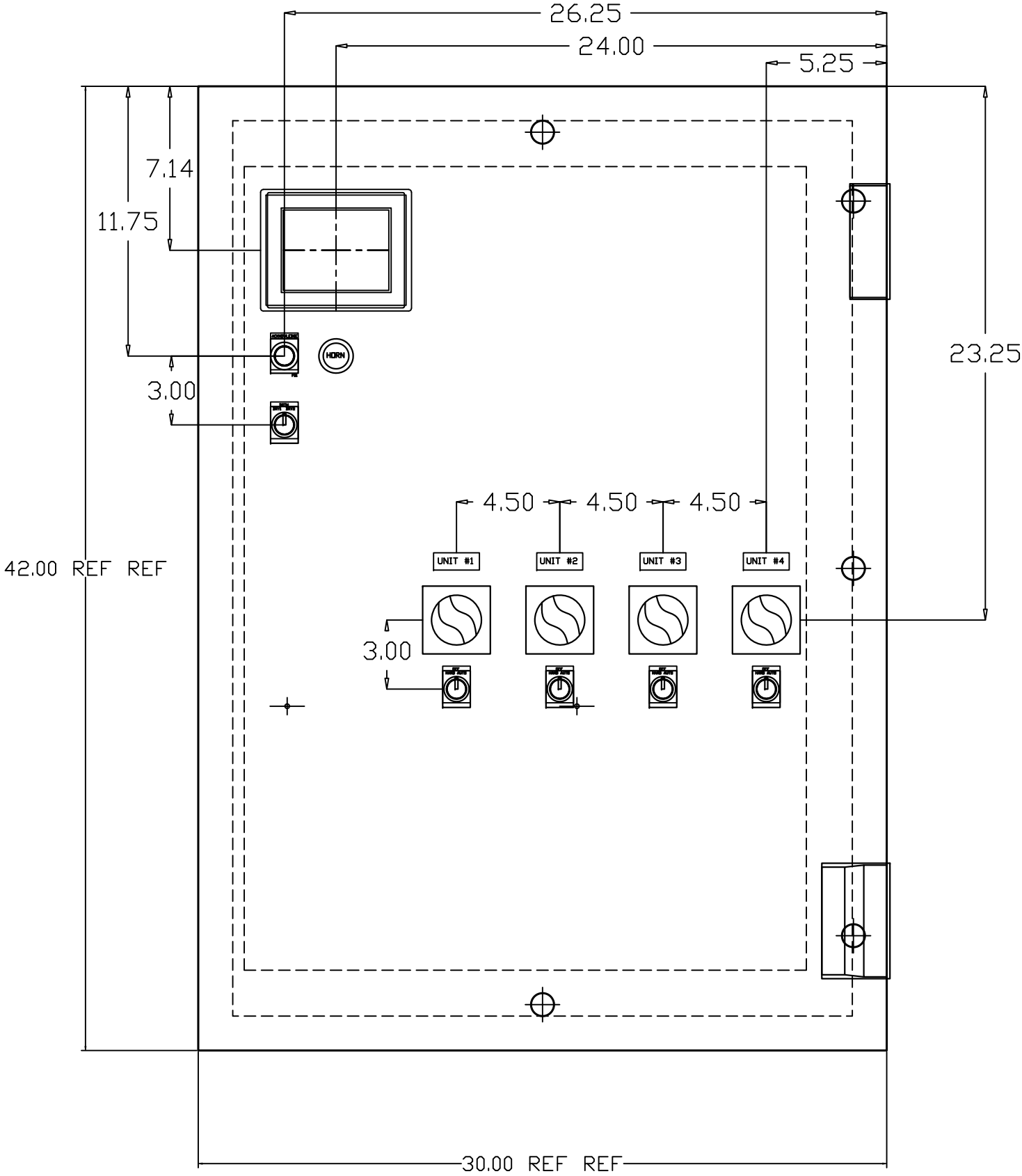
DWG. TYPE LAYOUT

DWG. NO. PBIA-469

SHEET	SIZE
LA-2	B

PBIA-469

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/15/23	PXEC0521	KMD	KMD



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09/15/23	09/15/23	09/15/23
PANEL TYPE		
QUAD INST AIR COMP HMI		
DWG. TYPE LAYOUT		
DWG. NO. PBIA-469		
SHEET		SIZE
LB-1		B

