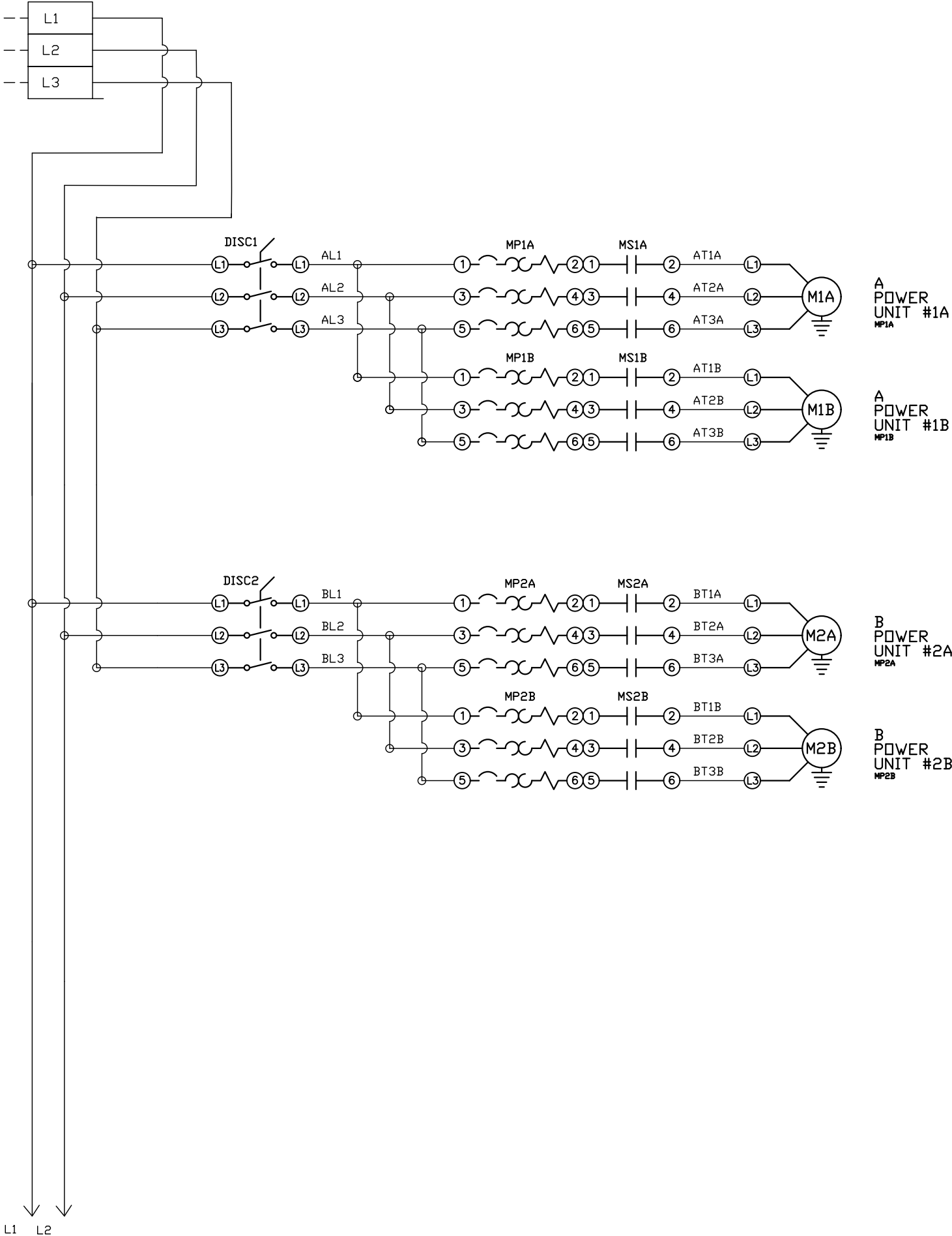


FIELD FURNISHED
DISCONNECT IS
REQUIRED

SEE NOTES ON
DATA TABLE PAGE



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE

DUP MED 2xSCROLL PER PLEX
HMI, NFPA

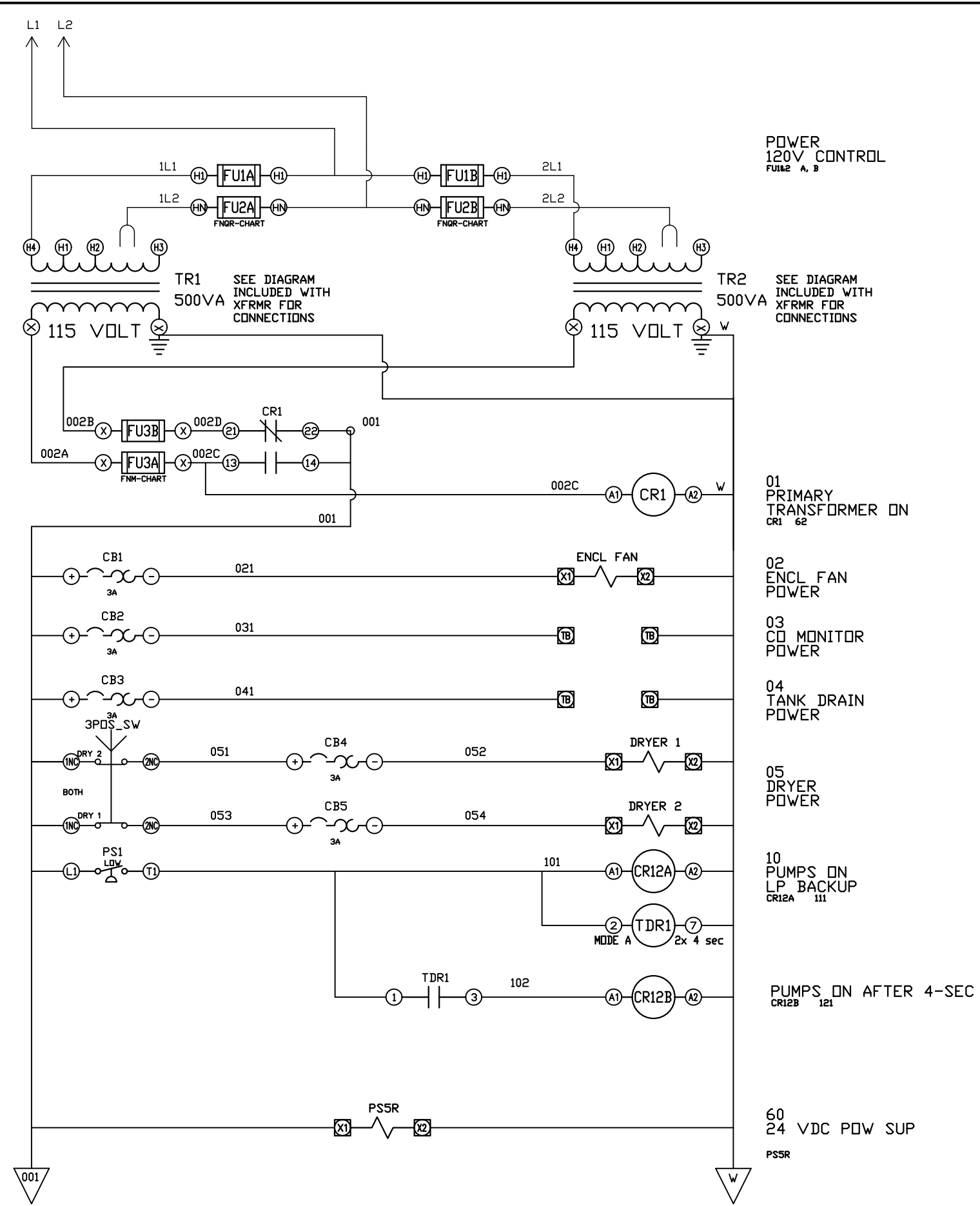
DWG. TYPE WIRING

DWG. NO.

PXMI-S216X

SHEET	SIZE
W-1	B

PXMI-S216X B1



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

OPTIONAL:

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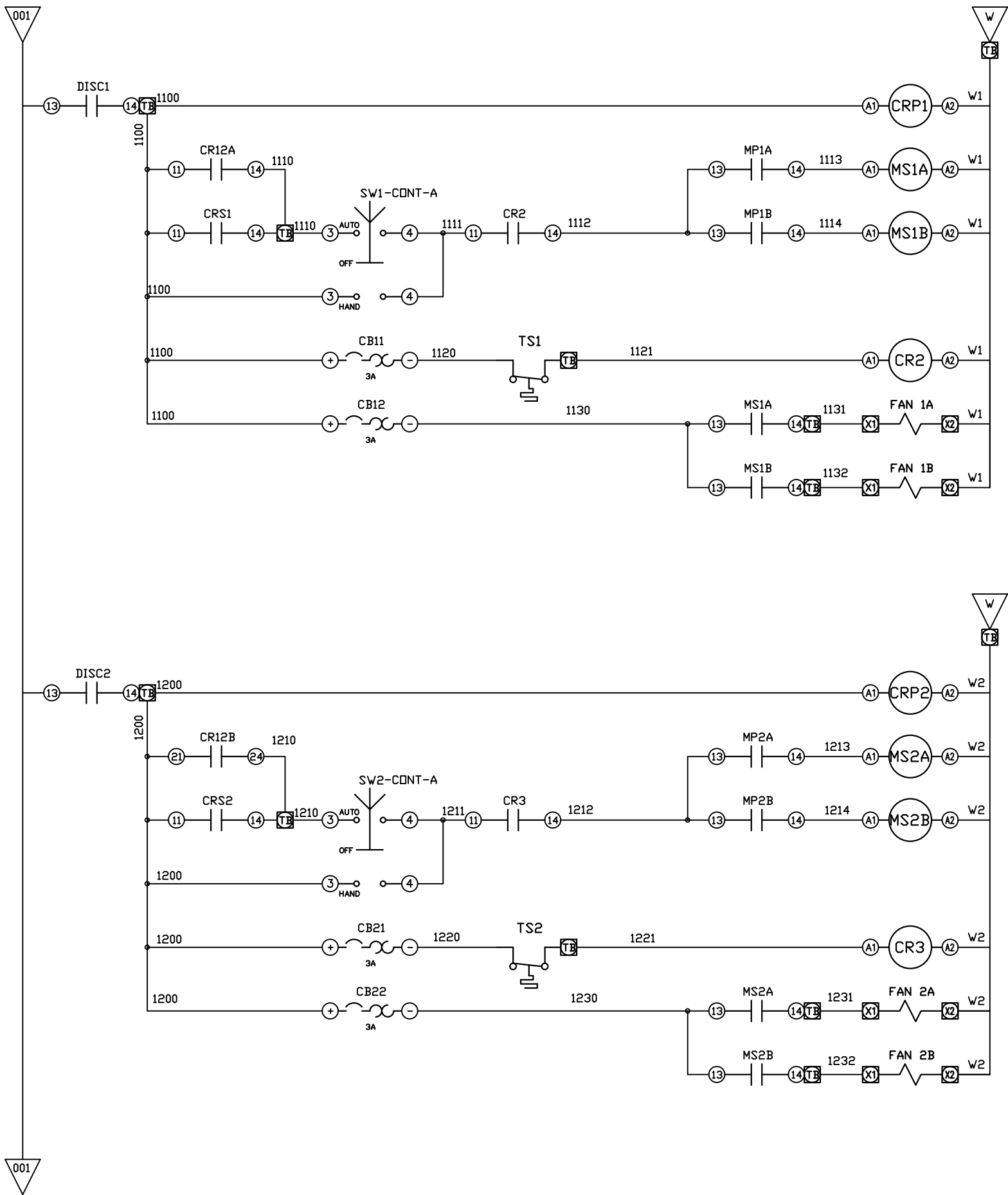
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE
DUP MED 2xSCROLL PER PLEX HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-S216X

SHEET	SIZE
W-2	B



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
AFTERCOOLER FAN
POWER
UNIT #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
AFTERCOOLER FAN
POWER
UNIT #2 TB

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE

DUP MED 2xSCROLL PER PLEX
HMI, NFPA

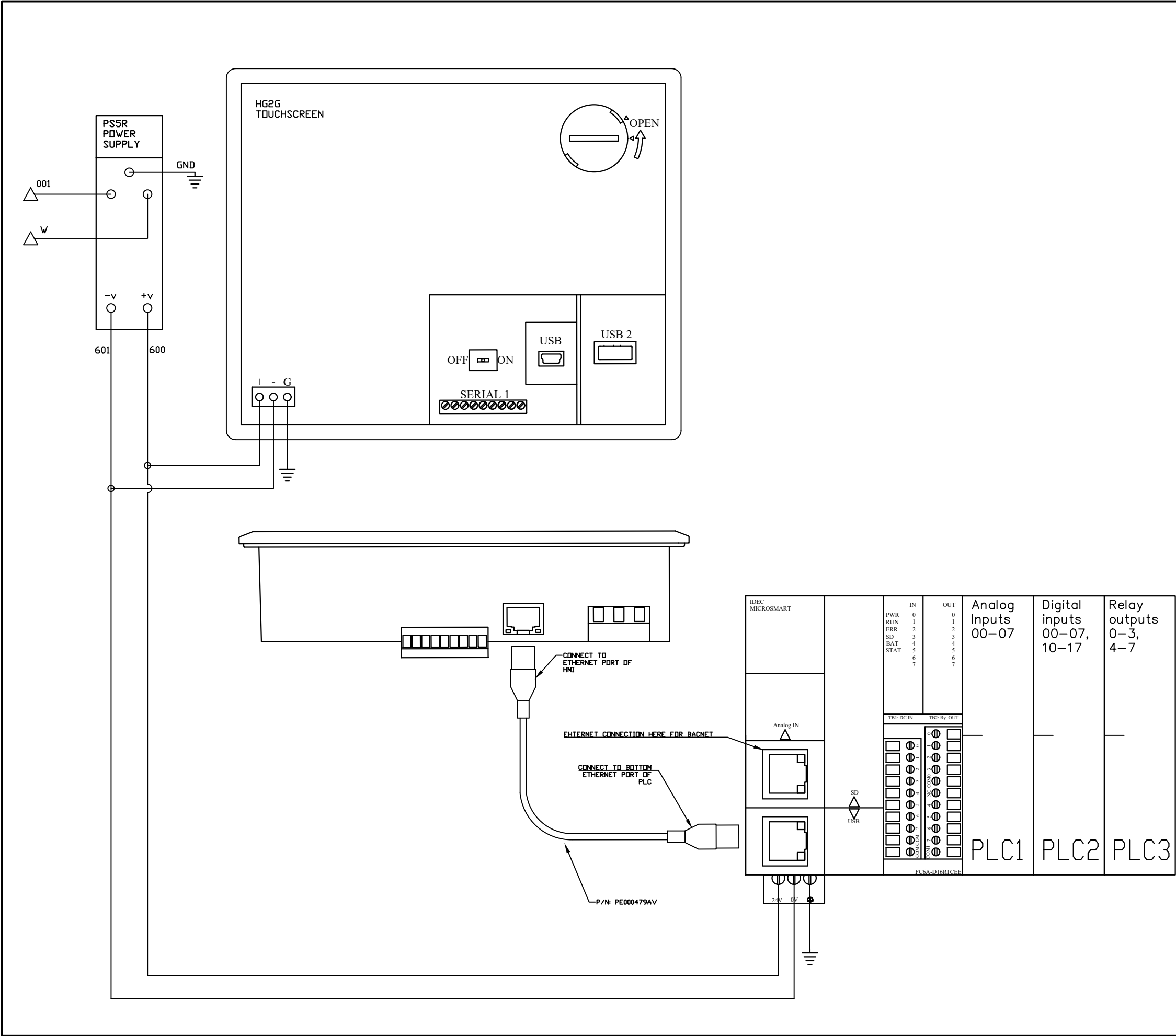
DWG. TYPE WIRING

DWG. NO.

PXMI-S216X

SHEET	SIZE
W-3	B

PXMI-S216X B1



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE
DUP MED 2xSCROLL PER PLEX HMI, NFPA

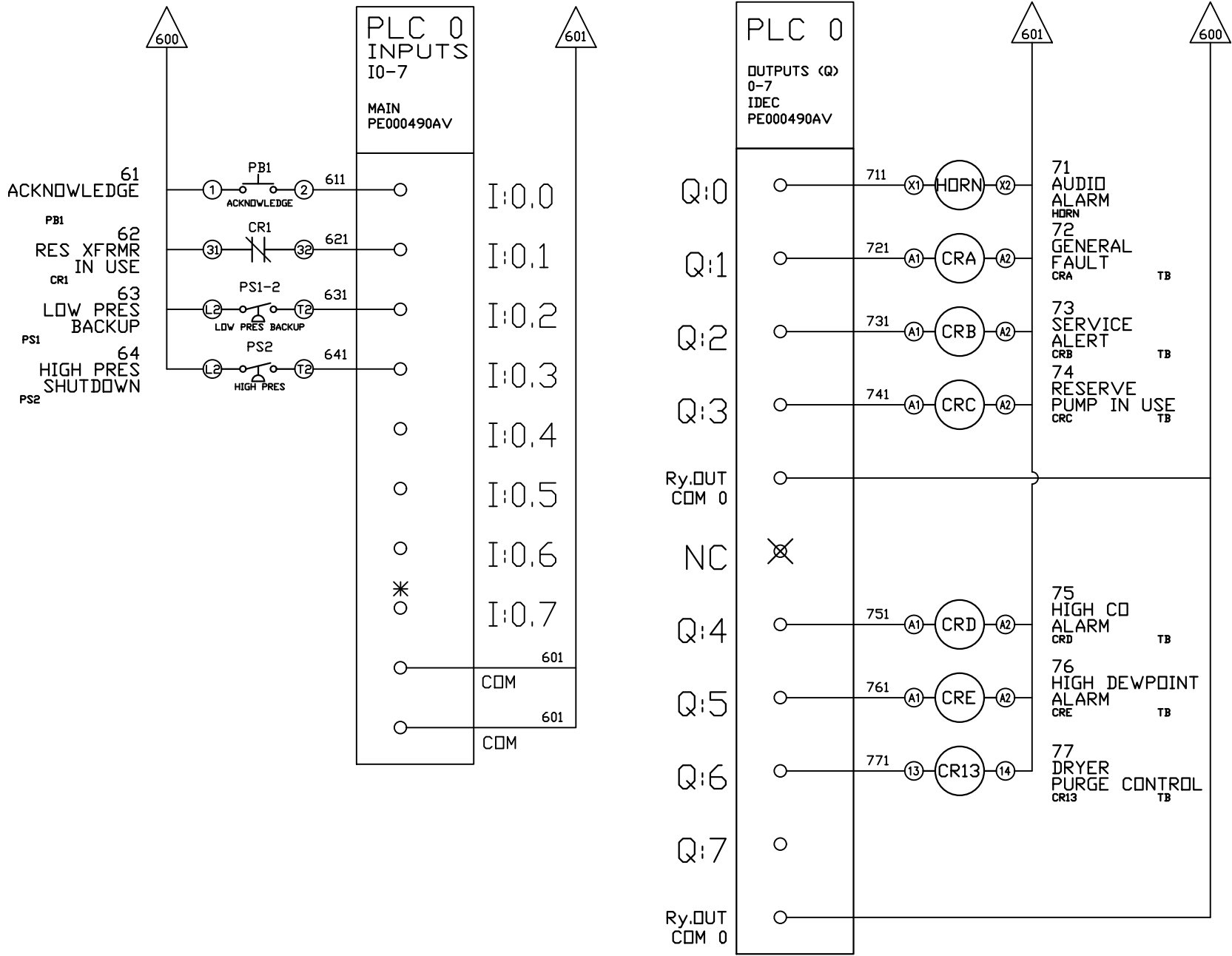
DWG. TYPE
WIRING

DWG. NO.
PXMI-S216X

SHEET W-4	SIZE B
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PXMI-S216X B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



*FACTORY TEST JUMPER LOCATION

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

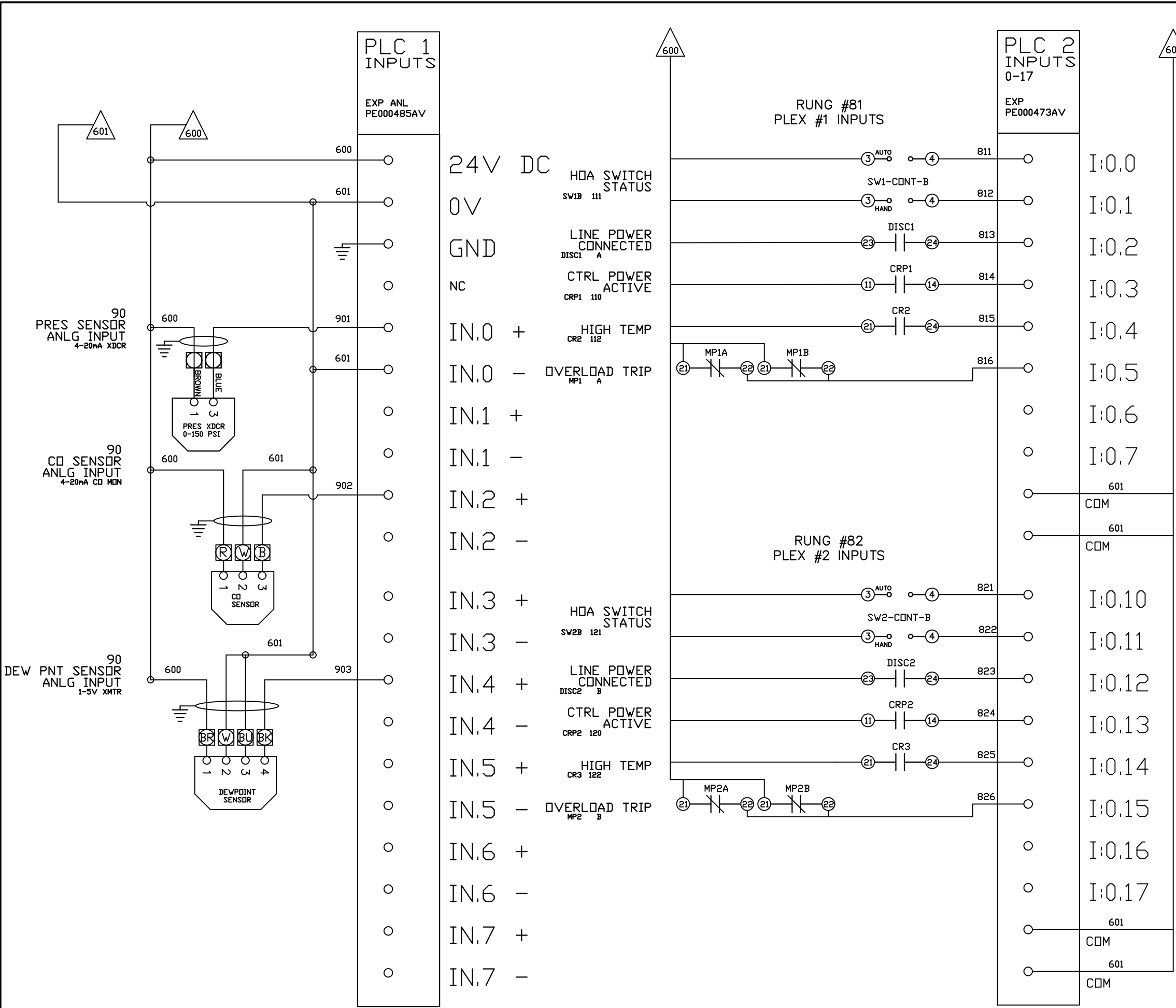
PANEL TYPE
DUP MED 2xSCROLL PER PLEX HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-S216X

SHEET W-5	SIZE B
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PXMI-S216X B1



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

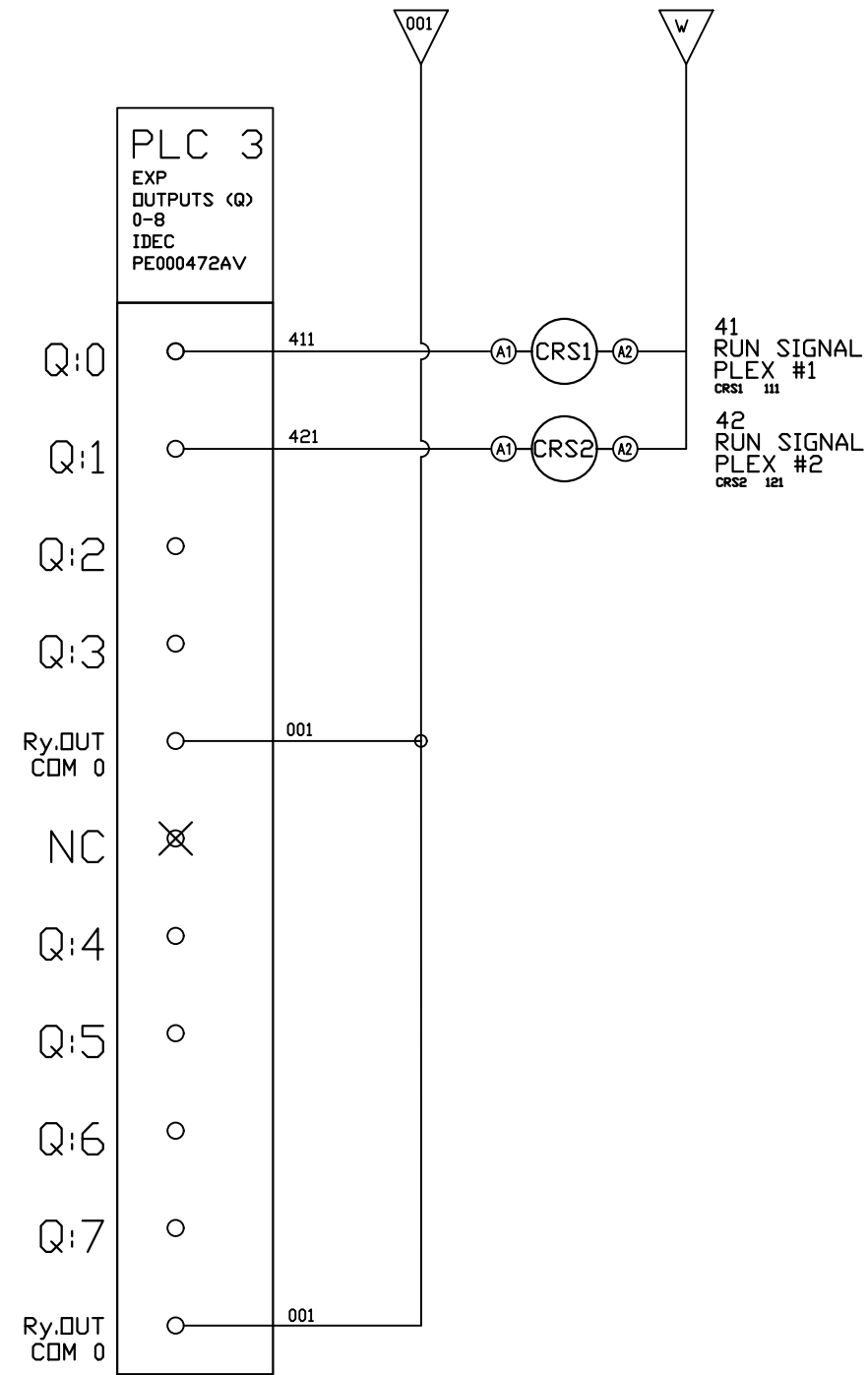
PANEL TYPE
DUP MED 2xSCROLL PER PLEX HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-S216X

SHEET W-6	SIZE B
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REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE
DUP MED 2xSCROLL PER PLEX HMI, NFPA

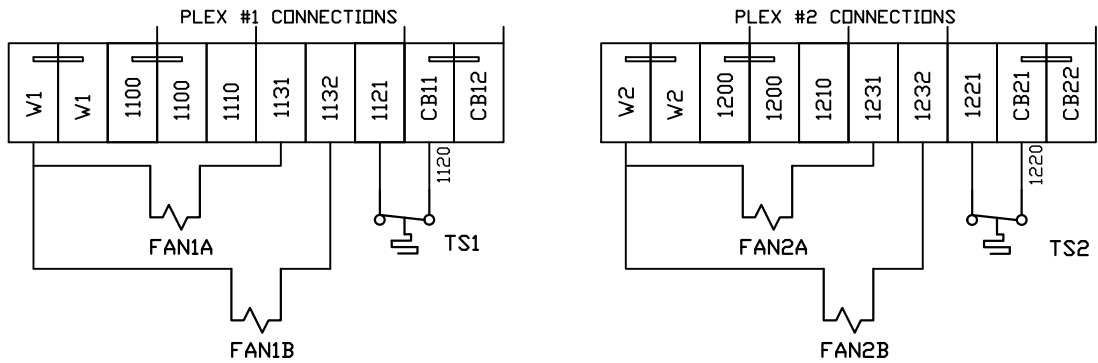
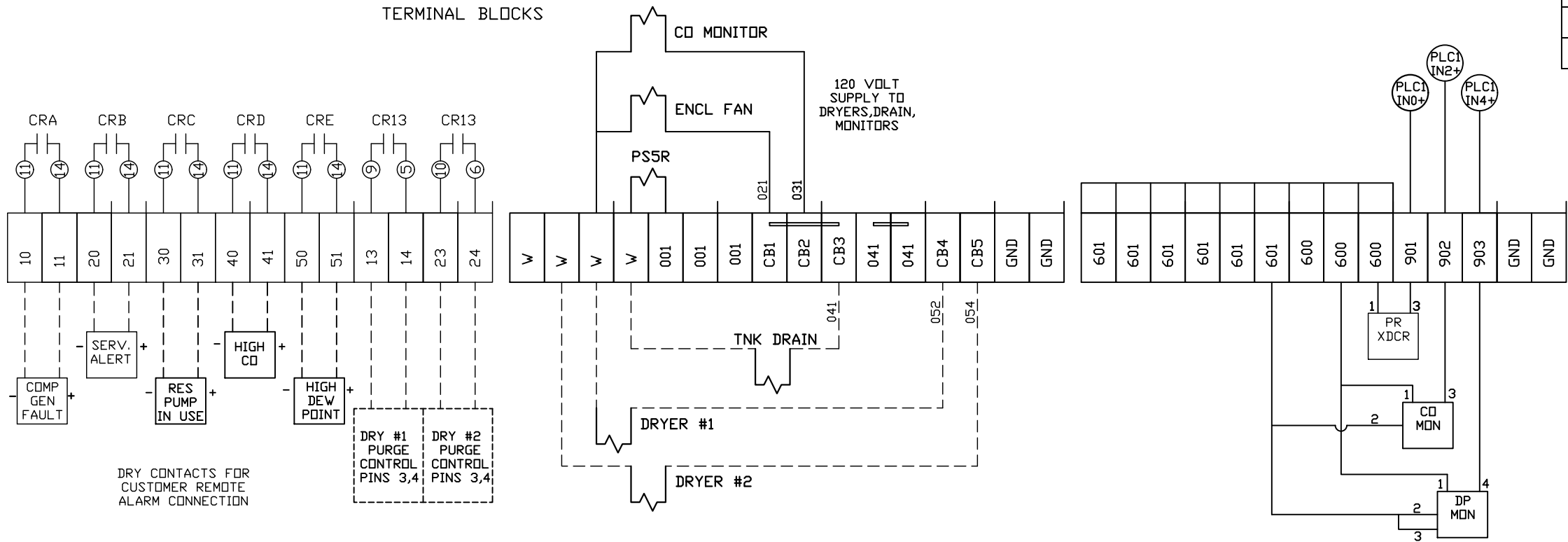
DWG. TYPE
WIRING

DWG. NO.
PXMI-S216X

SHEET W-7	SIZE B
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PXMI-S216X B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



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

OPTIONAL:

POWEREX™

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE

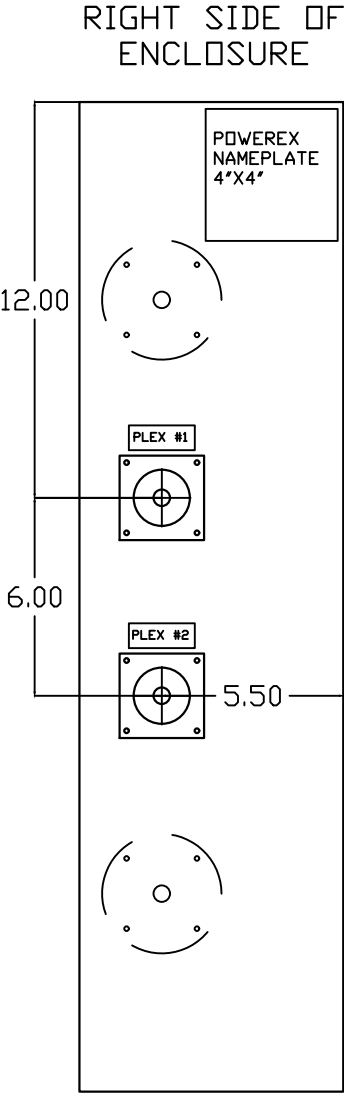
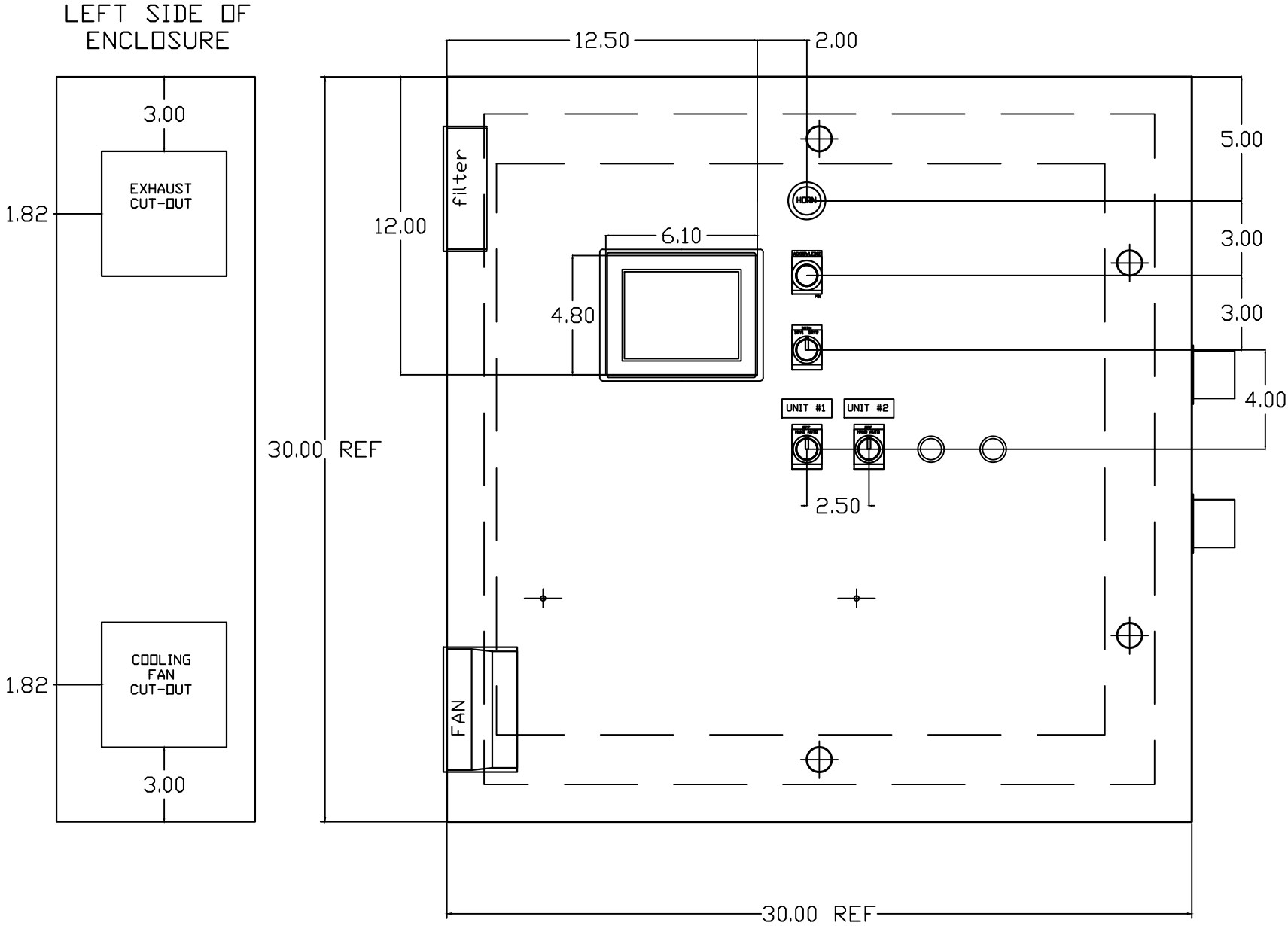
DUP MED 2xSCROLL PER PLEX HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-S216X

SHEET	SIZE
W-8	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE

DUP MED 2xSCROLL PER PLEX HMI, NFPA

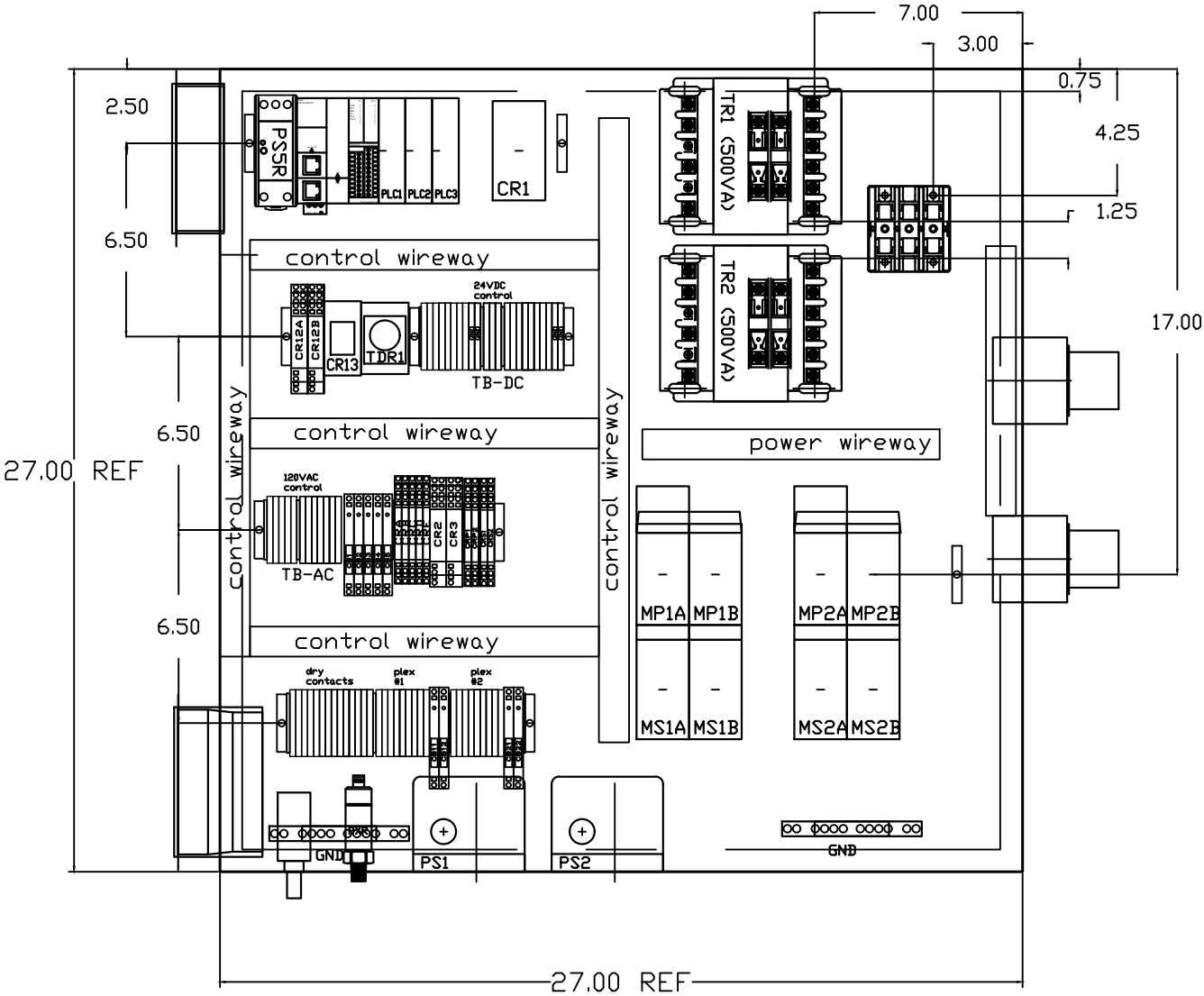
DWG. TYPE LAYOUT

DWG. NO. PXMI-S216X

SHEET	SIZE
L-1	B

PXMI-S216X B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE

DUP MED 2xSCROLL PER PLEX HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO. PXMI-S216X

SHEET	SIZE
L-2	B

PXMI-S216X B1

TABLE 1

PANEL DATA 3ø – 60 Hz 500VA CONTROL CIRCUIT							
(A) LOAD SPECIFICATIONS					(B) BRANCH CIRCUIT PROTECTION – PROVIDED BY INSTALLER		
PANEL PART NUMBER	MOTOR SIZE EACH	(A) POWER (V/PH)	(A) MOTOR LOAD EACH (FLA)	PANEL LOAD TOTAL (FLA)	NONTIME DELAY FUSE	TIME-DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
PBMIS216A2AJ	5(X2)	208V/3ø	14.0	58	90A	70A	80A
PBMIS216A3AJ	5(X2)	230V/3ø	12.7	53	80A	70A	80A
PBMIS216A4AJ	5(X2)	460V/3ø	6.33	27.3	40A	35A	40A
NOTE– ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE							

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 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. Δ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.
7. 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					
REPLACEMENT		208	230	460 380	575
FUSE TYPE		VOLT	VOLT	VOLT	VOLT
FU1,2A	FNQR	6A	5A	5A	4A
FU1,2B	(CC)				
FU3A,B	FNM	7A	7A	7A	7A
SEE XFRMR FOR CONNECTIONS					

WIRE TYPE TABLE			
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-599,1100+	16-18AWG	RED/BLK
0VAC	W	16-18AWG	WHT/BLK
24VDC	600-1099	16-18AWG	PURPLE
0VDC	601	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16-18AWG	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 with each lead run signal or every 10-minutes (which ever happens first). 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. When more than one pump is running, lead alternation will occur when the lowest cut-out set-point is satisfied, or after 10-minutes (which ever happens first). 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 Back-up 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 (or plex) required. To expand the system: navigate to the “service screen” and enter the number of pumps.

Additional information and descriptions can be accessed through the HMI “service info” screen by pressing Sequence of Operations button.

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/08/12	22722	BFH	CHR
G-2	ADDED MORE TERMINAL BLOCKS	03/19/25	PXEC0628	JRD	STK
H-1	ADDED GROUND TERMINAL BLOCKS	07/03/25	PXEC0688	JRD	WMM
J-1	ADDED PLEX ISOLATION	07/21/25	PXEC0639	SEK	WMM

OPTIONAL: BACNET, WEBSERVER



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
05/08/12	05/08/12	05/08/12

PANEL TYPE
DUPLEX MED 10HP SCROLL HMI, NFPA

DWG. TYPE DATA

DWG. NO.
PXMI-S216X W

SHEET	SIZE
D-1	B
PXMI-S216A B1	