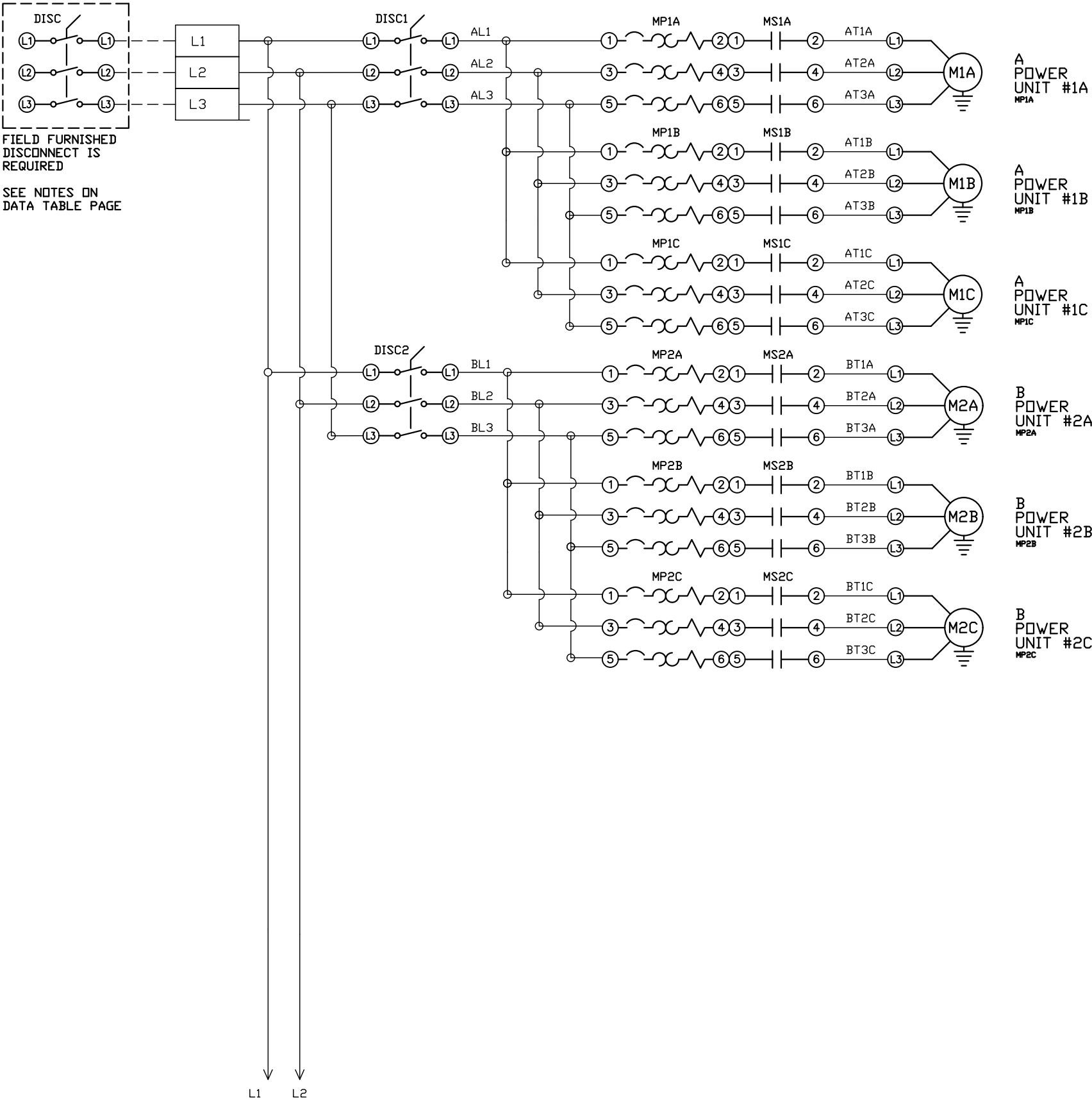




REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/21/14	PXEC0065	KMD	AJL
E-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/28/24	PXEC0628	SEK	JRD
E-2	ADDED MORE TERMINAL BLOCKS	03/20/25	PXEC0628	JRD	STK
F-1	ADDED PLEX ISOLATION	07/28/25	PXEC0639	SEK	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	DMS
01/21/14	01/21/14	01/21/14

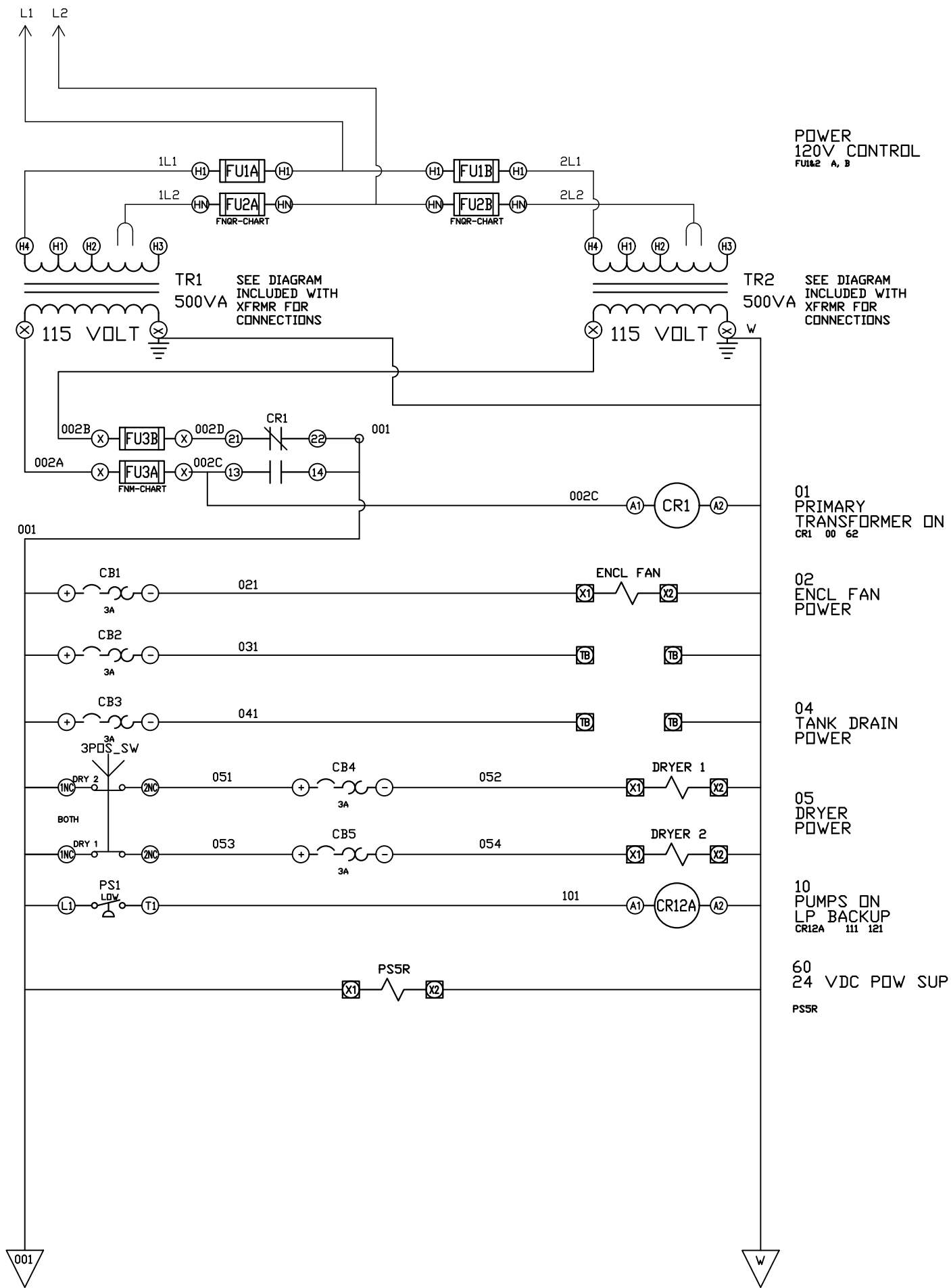
PANEL TYPE
DUPLX LAB 15HP SCROLL HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-LS216F W

SHEET W-1	SIZE B
--------------	-----------

PXMI-LS216F B1



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/21/14	PXEC0065	KMD	AJL
E-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/28/24	PXEC0628	SEK	JRD
E-2	ADDED MORE TERMINAL BLOCKS	03/20/25	PXEC0628	JRD	STK
F-1	ADDED PLEX ISOLATION	07/28/25	PXEC0639	SEK	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	DMS
01/21/14	01/21/14	01/21/14

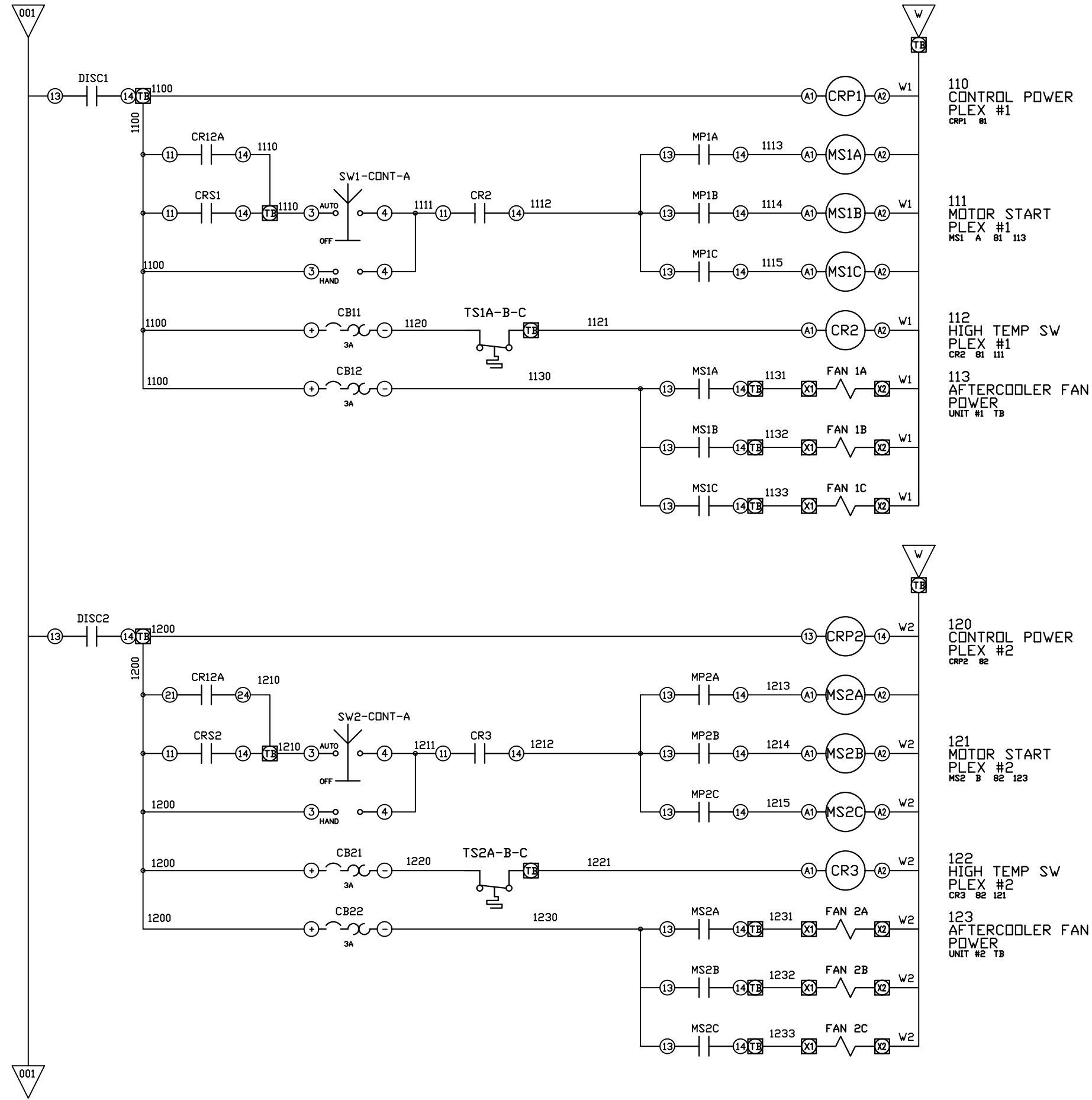
PANEL TYPE

DUPLEX LAB 15HP SCROLL HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-LS216F W

SHEET	SIZE
W-2	B



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/21/14	PXEC0065	KMD	AJL
E-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/28/24	PXEC0628	SEK	JRD
E-2	ADDED MORE TERMINAL BLOCKS	03/20/25	PXEC0628	JRD	STK
F-1	ADDED PLEX ISOLATION	07/28/25	PXEC0639	SEK	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	DMS
01/21/14	01/21/14	01/21/14

PANEL TYPE

DUPLEX LAB 15HP SCROLL HMI, NFPA

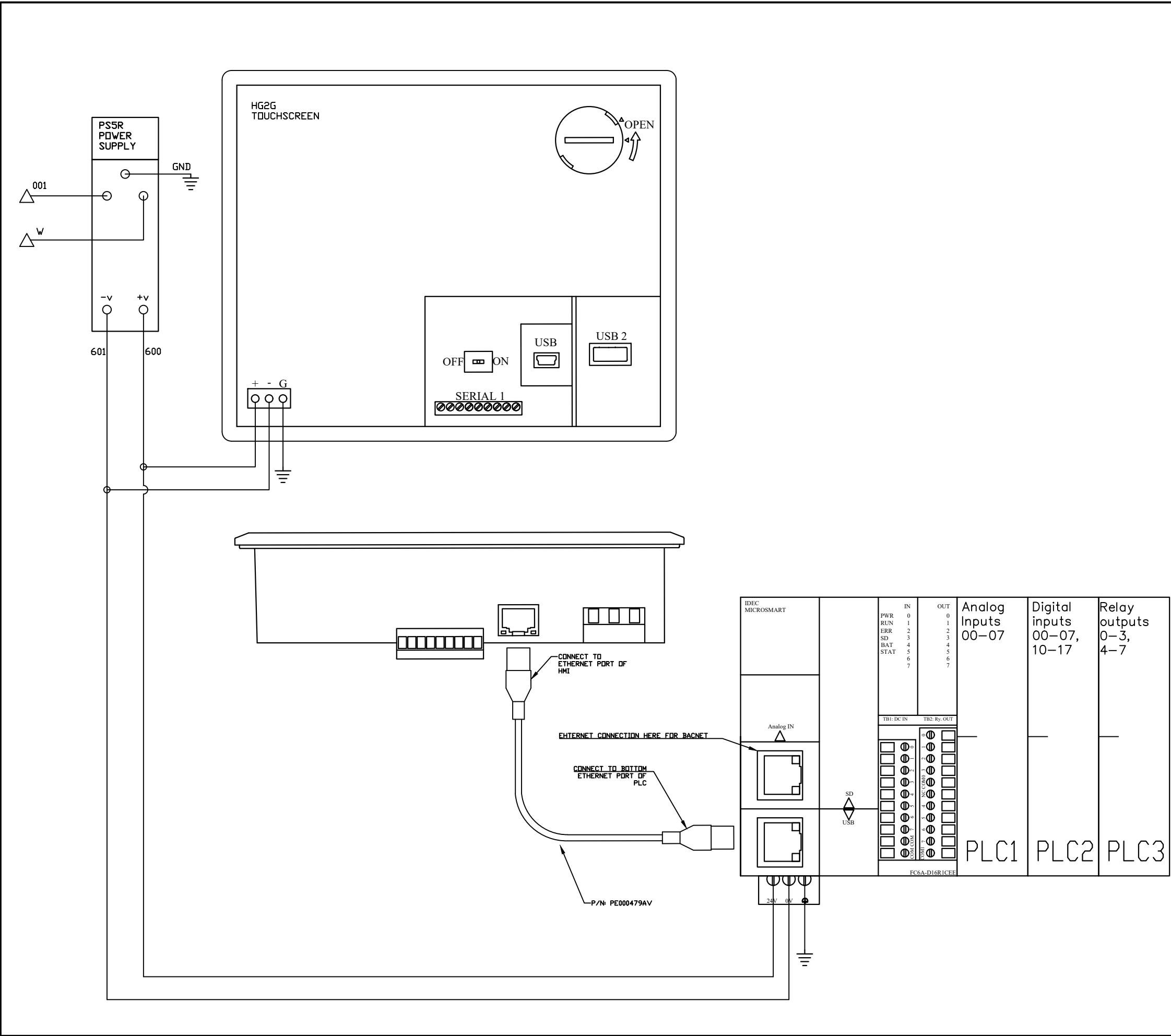
DWG. TYPE WIRING

DWG. NO.

PXMI-LS216F W

SHEET	SIZE
W-3	B

PXMI-LS216F B1



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/21/14	PXEC0065	KMD	AJL
E-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/28/24	PXEC0628	SEK	JRD
E-2	ADDED MORE TERMINAL BLOCKS	03/20/25	PXEC0628	JRD	STK
F-1	ADDED PLEX ISOLATION	07/28/25	PXEC0639	SEK	WMM

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	DMS
01/21/14	01/21/14	01/21/14

PANEL TYPE
DUPLIX LAB 15HP SCROLL
HMI, NFPA

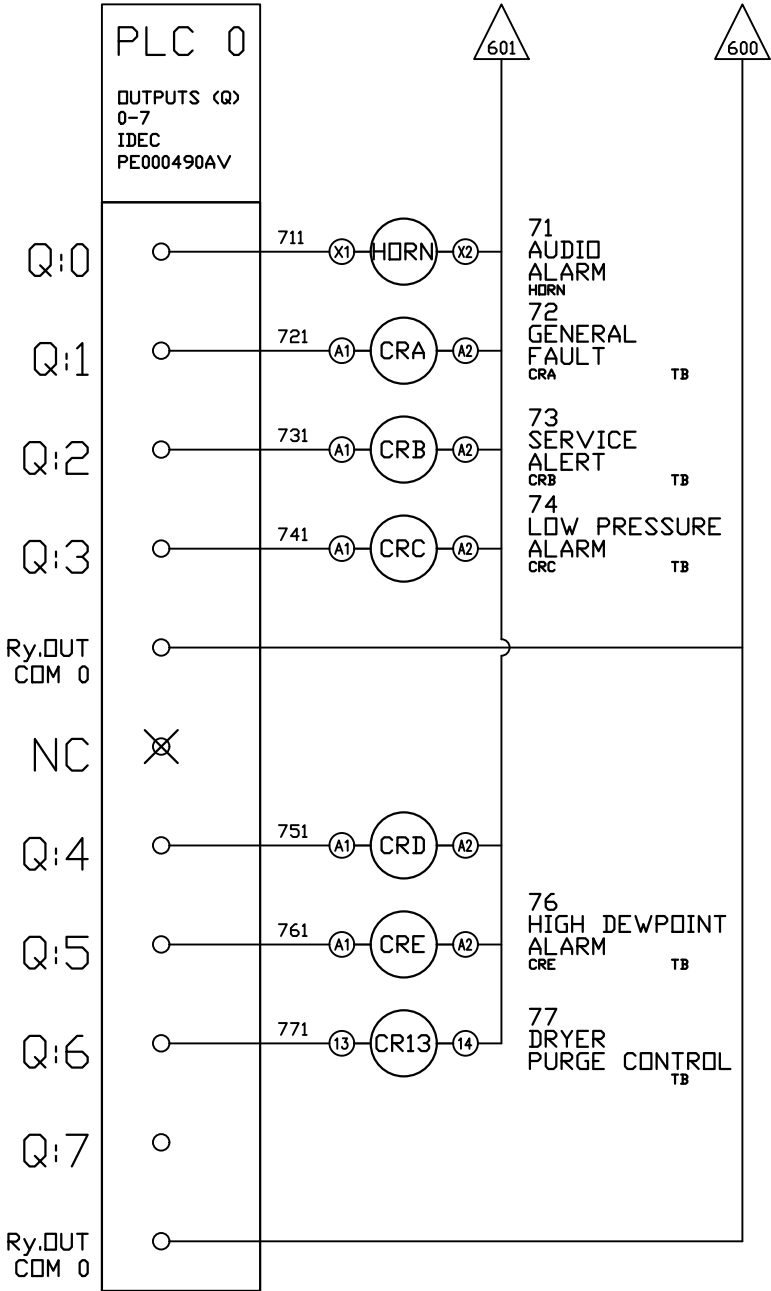
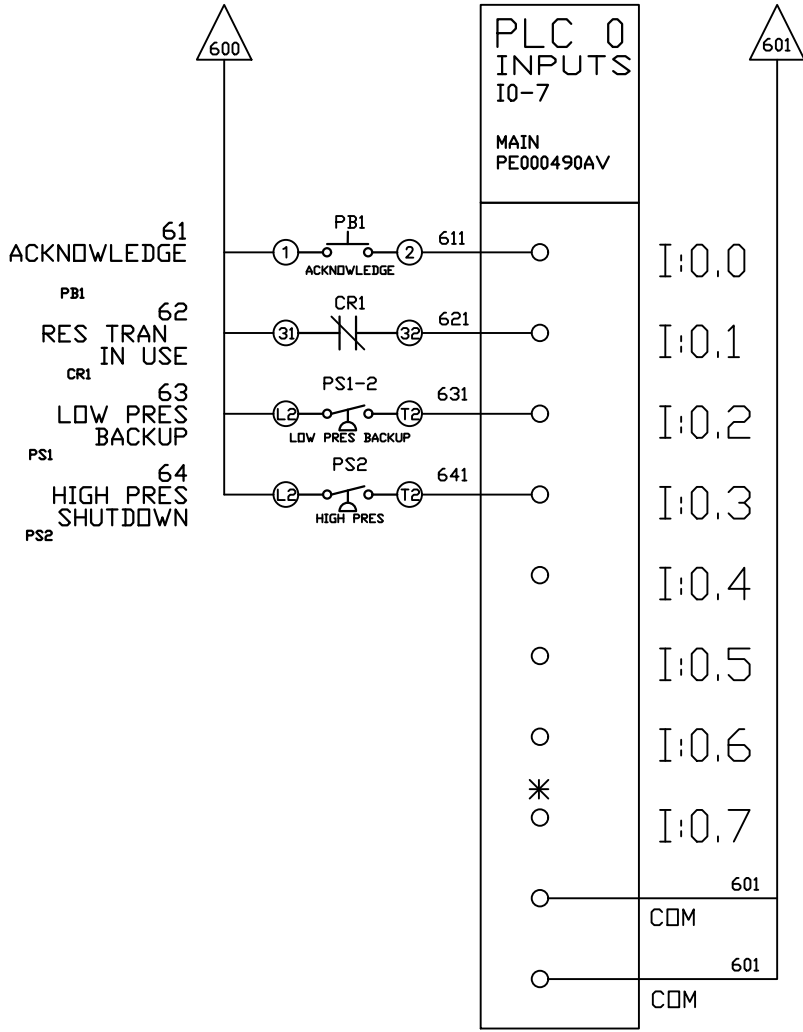
DWG. TYPE
WIRING

DWG. NO.
PXMI-LS216F W

SHEET W-4	SIZE B
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PXMI-LS216F B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/21/14	PXEC0065	KMD	AJL
E-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/28/24	PXEC0628	SEK	JRD
E-2	ADDED MORE TERMINAL BLOCKS	03/20/25	PXEC0628	JRD	STK
F-1	ADDED PLEX ISOLATION	07/28/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	DMS
01/21/14	01/21/14	01/21/14

PANEL TYPE

DUPLEX LAB 15HP SCROLL HMI, NFPA

DWG. TYPE WIRING

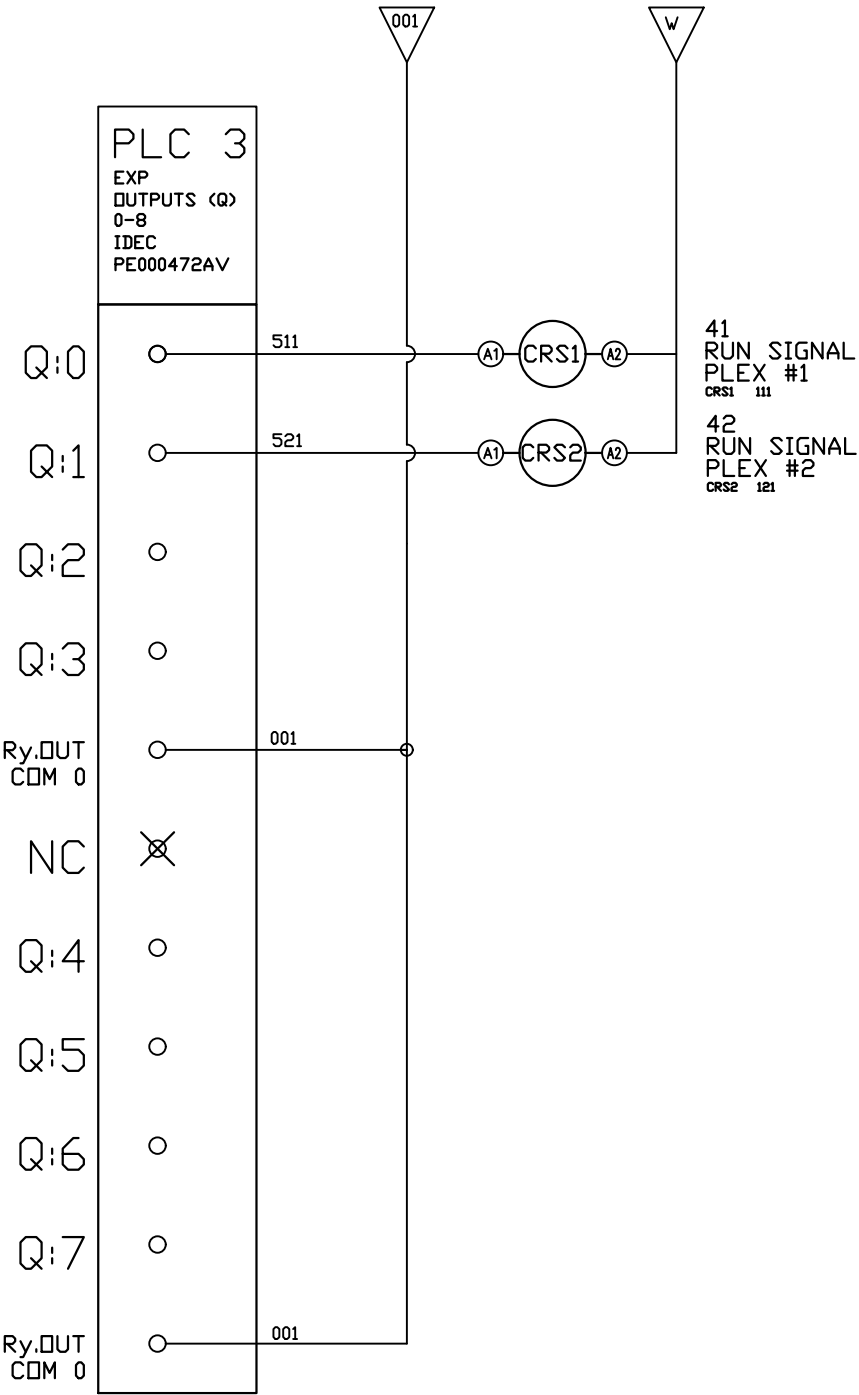
DWG. NO. PXMI-LS216F W

SHEET	SIZE
W-5	B

PXMI-LS216F B1

*FACTORY TEST JUMPER LOCATION

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/21/14	PXEC0065	KMD	AJL
E-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/28/24	PXEC0628	SEK	JRD
E-2	ADDED MORE TERMINAL BLOCKS	03/20/25	PXEC0628	JRD	STK
F-1	ADDED PLEX ISOLATION	07/28/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	DMS
01/21/14	01/21/14	01/21/14

PANEL TYPE
DUPLEX LAB 15HP SCROLL
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.
PXMI-LS216F W

SHEET	SIZE
W-7	B

TERMINAL BLOCKS

10 11 20 21 30 31 40 41 50 51 13 14 23 24

CRA CRB CRC CRD CRE CR13 CR13

COMP GEN FAULT SERV. ALERT LOW PRESS. HIGH DEW POINT

DRY #1 PURGE CONTROL PINS 3,4 DRY #2 PURGE CONTROL PINS 3,4

10 11 20 21 30 31 40 41 50 51 13 14 23 24

W W W W 001 001 001 CB1 CB2 CB3 041 041 CB4 CB5 GND GND

ENCL FAN PS5R 021

120 VOLT SUPPLY TO DRYERS, DRAIN, MONITORS

TNK DRAIN 041 052 054

DRYER #1 DRYER #2

601 601 601 601 601 601 600 600 600 901 902 903 GND GND

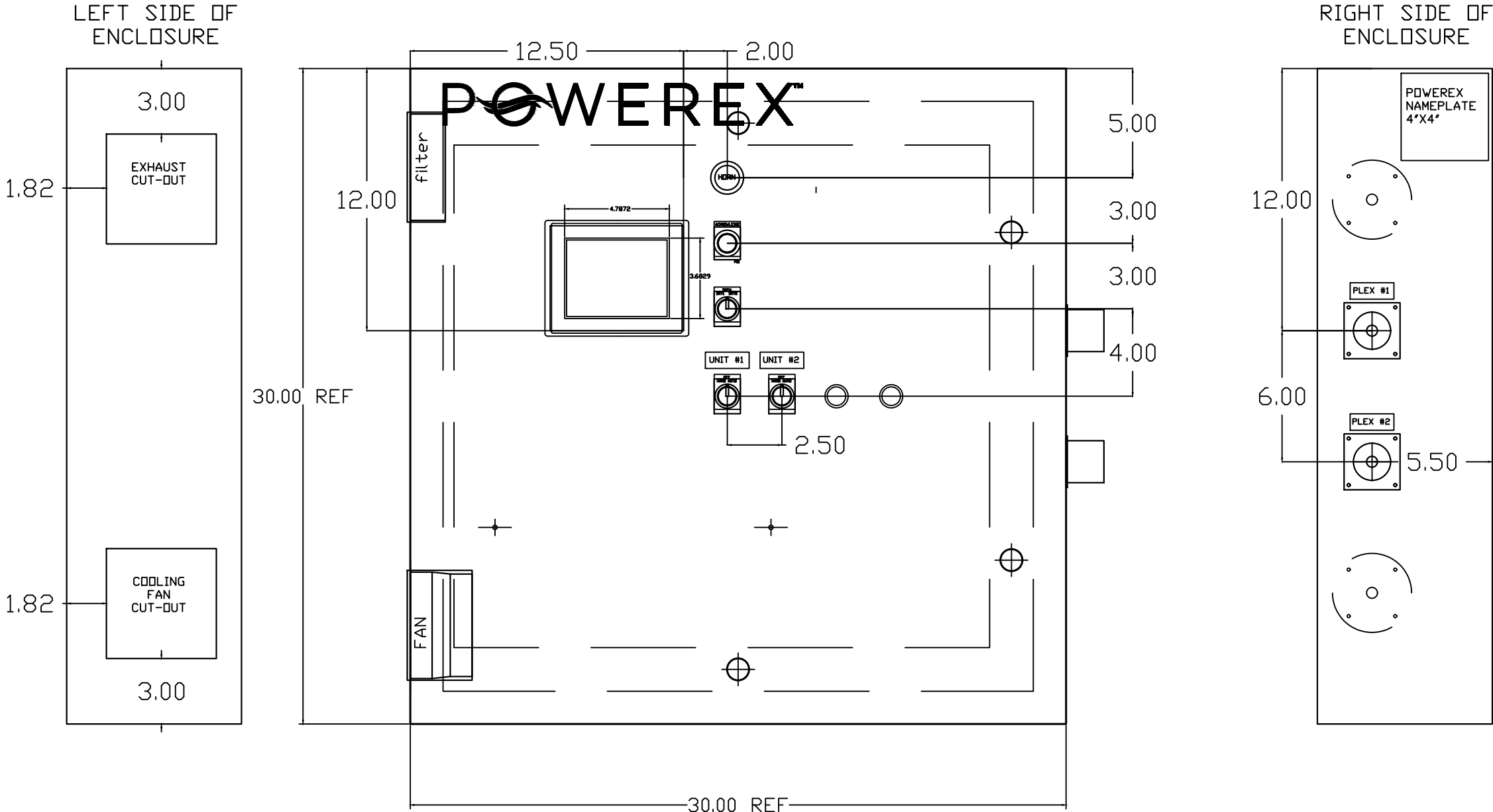
PLC1 IN0+ PLC1 IN4+

PR XDCR 1 3

DP MON 1 2 3 4

OPTIONAL:		
 POWEREX™		
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	DMS
01/21/14	01/21/14	01/21/14
PANEL TYPE		
DUPLEX LAB 15HP SCROLL HMI, NFPA		
DWG. TYPE		
WIRING		
DWG. NO.		
PXMI-LS216F W		
SHEET		SIZE
W-8		B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/21/14	PXEC0065	KMD	AJL
E-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/28/24	PXEC0628	SEK	JRD
E-2	ADDED MORE TERMINAL BLOCKS	03/20/25	PXEC0628	JRD	STK
F-1	ADDED PLEX ISOLATION	07/28/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	DMS
01/21/14	01/21/14	01/21/14

PANEL TYPE

DUPLEX LAB 15HP SCROLL HMI, NFPA

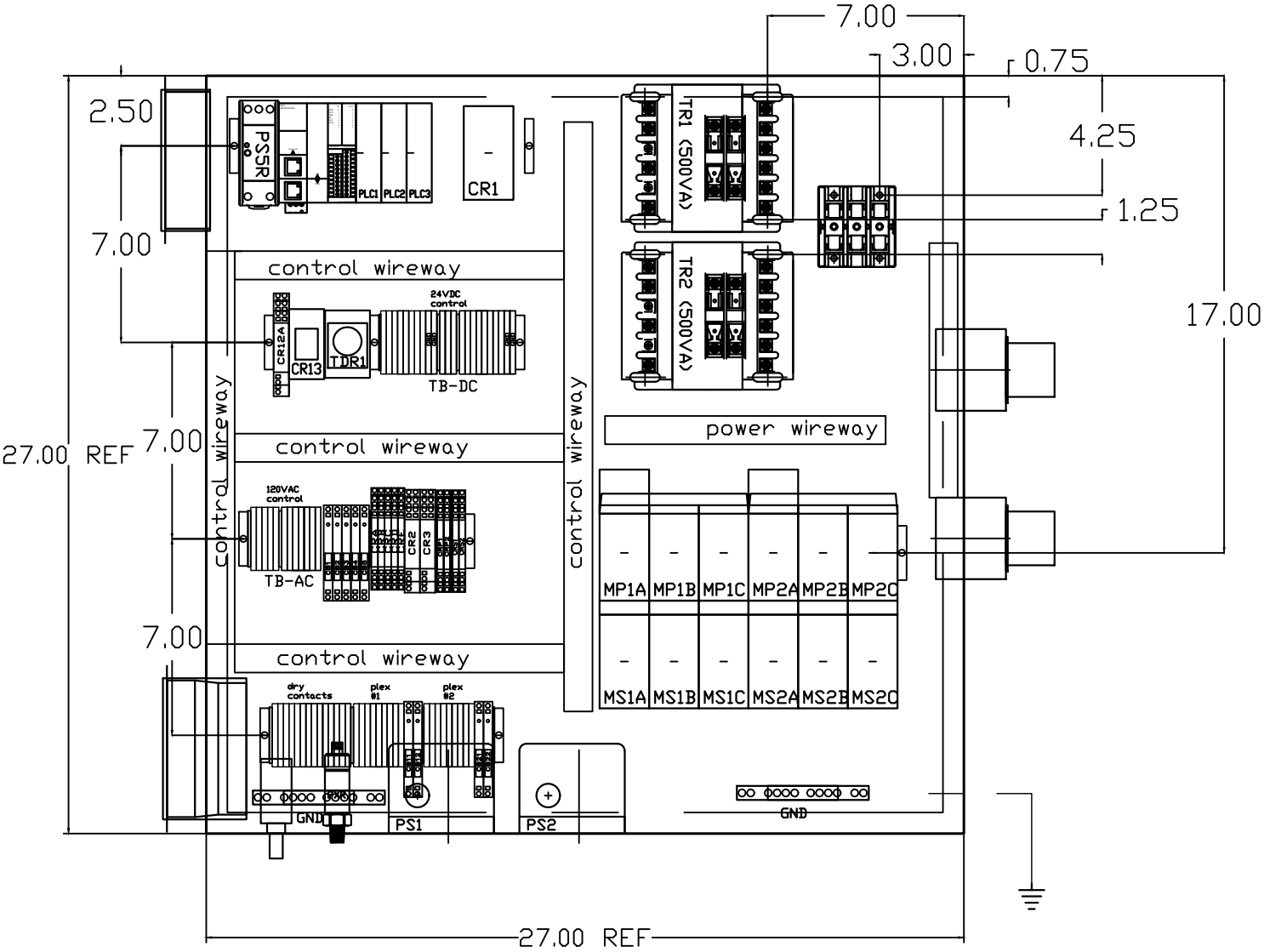
DWG. TYPE LAYOUT

DWG. NO. PXMI-LS216F W

SHEET	SIZE
L-1	B

PXMI-LS216F B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/21/14	PXEC0065	KMD	AJL
E-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	05/28/24	PXEC0628	SEK	JRD
E-2	ADDED MORE TERMINAL BLOCKS	03/20/25	PXEC0628	JRD	STK
F-1	ADDED PLEX ISOLATION	07/28/25	PXEC0639	SEK	WMM



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	DMS
01/21/14	01/21/14	01/21/14

PANEL TYPE
DUPLX LAB 15HP SCROLL
HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO. PXMI-LS216F W

SHEET	SIZE
L-2	B

PXMI-LS216F 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 (HP)	(A) POWER (V/Ph)	(A) MOTOR LOAD EACH (FLA)	PANEL LOAD TOTAL (FLA)	NONTIME DELAY FUSE	TIME-DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
PBMILS216F2AJ	5(X3)	208V/3Ø	14.6	90.0	200A	125A	175A
PBMILS216F3AJ	5(X3)	230V/3Ø	12.7	78.4	175A	110A	150A
PBMILS216F4AJ	5(X3)	460V/3Ø	6.33	39.1	80A	60A	70A
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. △ -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.

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.

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

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/21/14	PXEC0065	KMD	AJL
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OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	AJL	DMS
01/21/14	01/21/14	01/21/14

PANEL TYPE

DUPLEX LAB 15HP SCROLL HMI, NFPA

DWG. TYPE DATA

DWG. NO.

PXMI-LS216F W

SHEET	SIZE
D-1	B

PXMI-LS216F B1