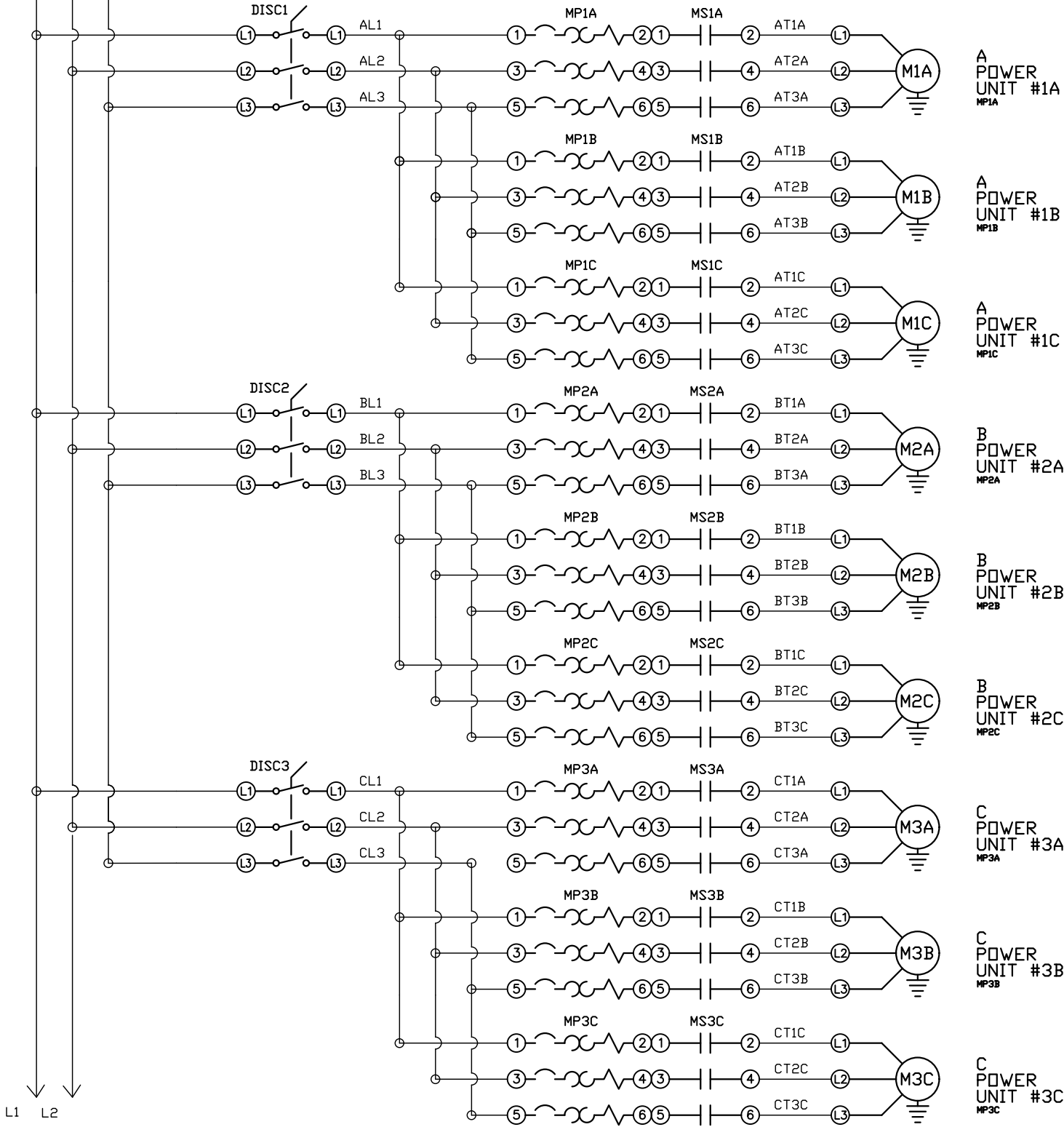


FIELD FURNISHED
DISCONNECT IS
REQUIRED

SEE NOTES ON
DATA TABLE PAGE



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/26/13	PXEC0029	DMS	GES
F-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
G-1	ADDED PLEX ISOLATION	07/29/25	PXEC0639	SEK	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
DMS	GES	DMS
05/26/13	05/26/13	05/26/13

PANEL TYPE

TRIPLEX LAB 15HP SCROLL
HMI, NFPA

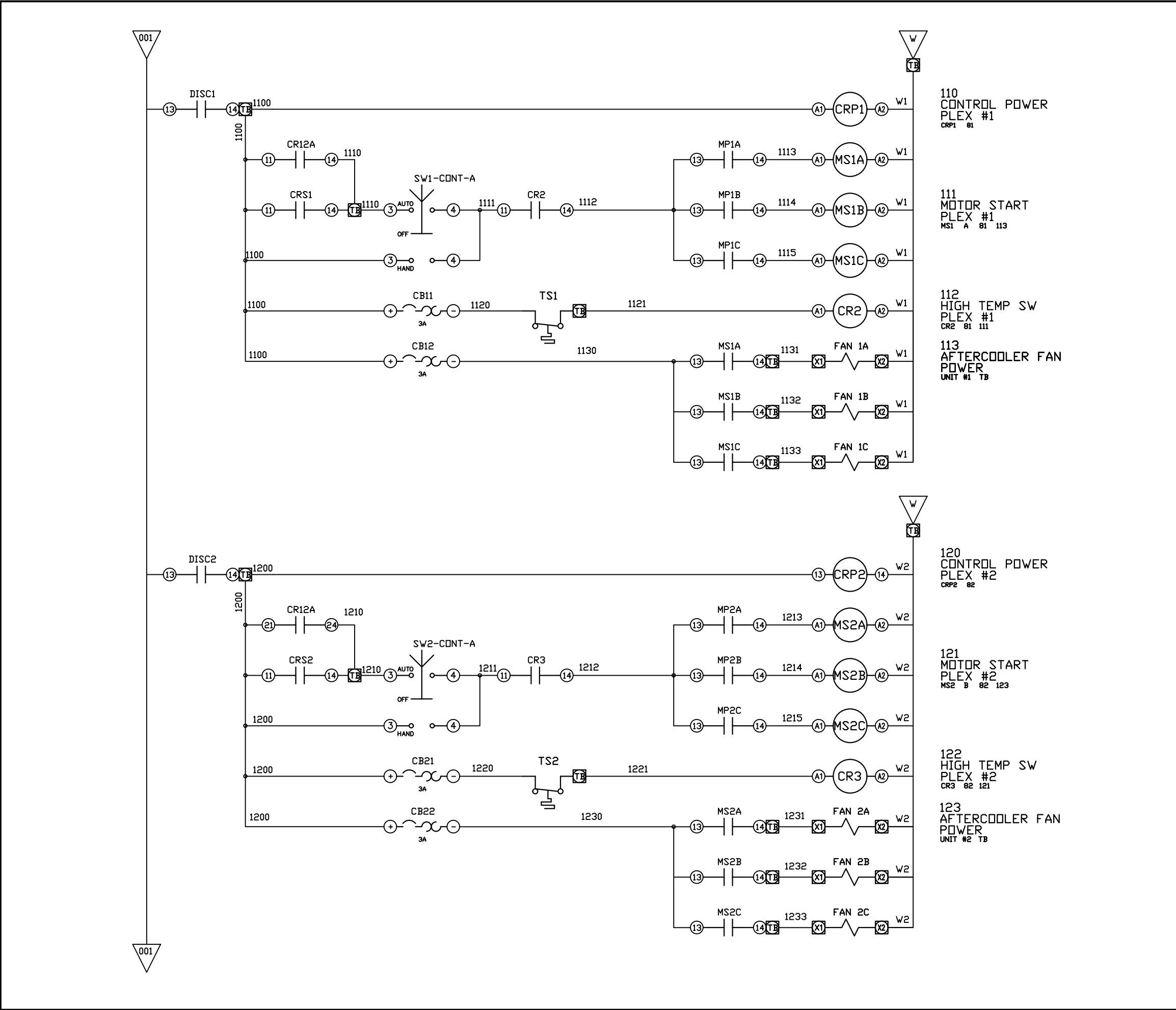
DWG. TYPE WIRING

DWG. NO.

PXMI-LS316F W

SHEET	SIZE
W-1	B

PXMI-LS316F B1



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/26/13	PXEC0029	DMS	GES
F-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
G-1	ADDED PLEX ISOLATION	07/29/25	PXEC0639	SEK	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
DMS	GES	DMS
05/26/13	05/26/13	05/26/13

PANEL TYPE

TRIPLEX LAB 15HP SCROLL HMI, NFPA

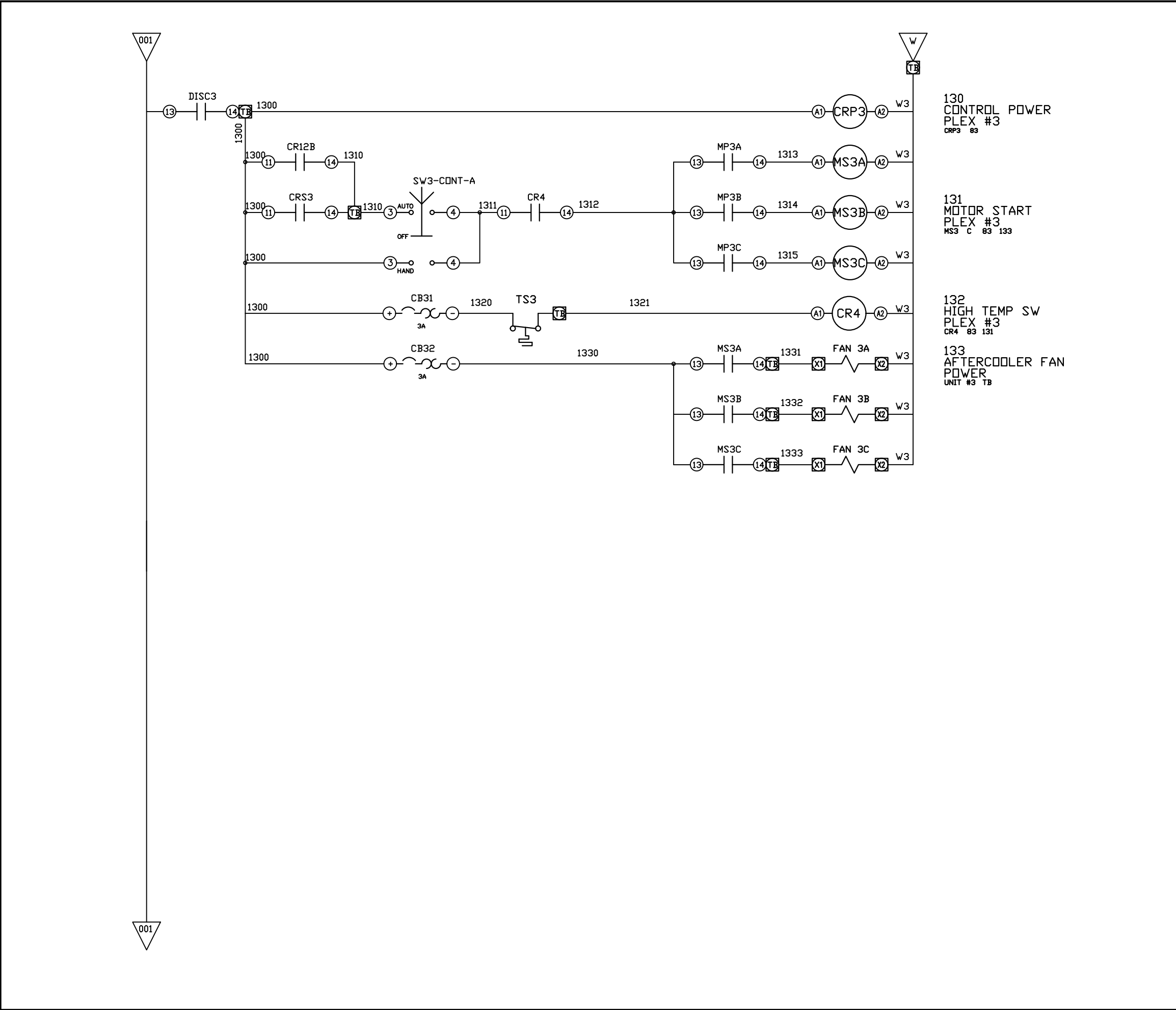
DWG. TYPE WIRING

DWG. NO.

PXMI-LS316F W

SHEET	SIZE
W-3	B

PXMI-LS316F B1



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/26/13	PXEC0029	DMS	GES
F-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
G-1	ADDED PLEX ISOLATION	07/29/25	PXEC0639	SEK	WMM

130
CONTROL POWER
PLEX #3
CRP3 83

131
MOTOR START
PLEX #3
MS3 C 83 133

132
HIGH TEMP SW
PLEX #3
CR4 83 131

133
AFTERCOOLER FAN
POWER
UNIT #3 TB

OPTIONAL:

POWEREX™

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
DMS	GES	DMS
05/26/13	05/26/13	05/26/13

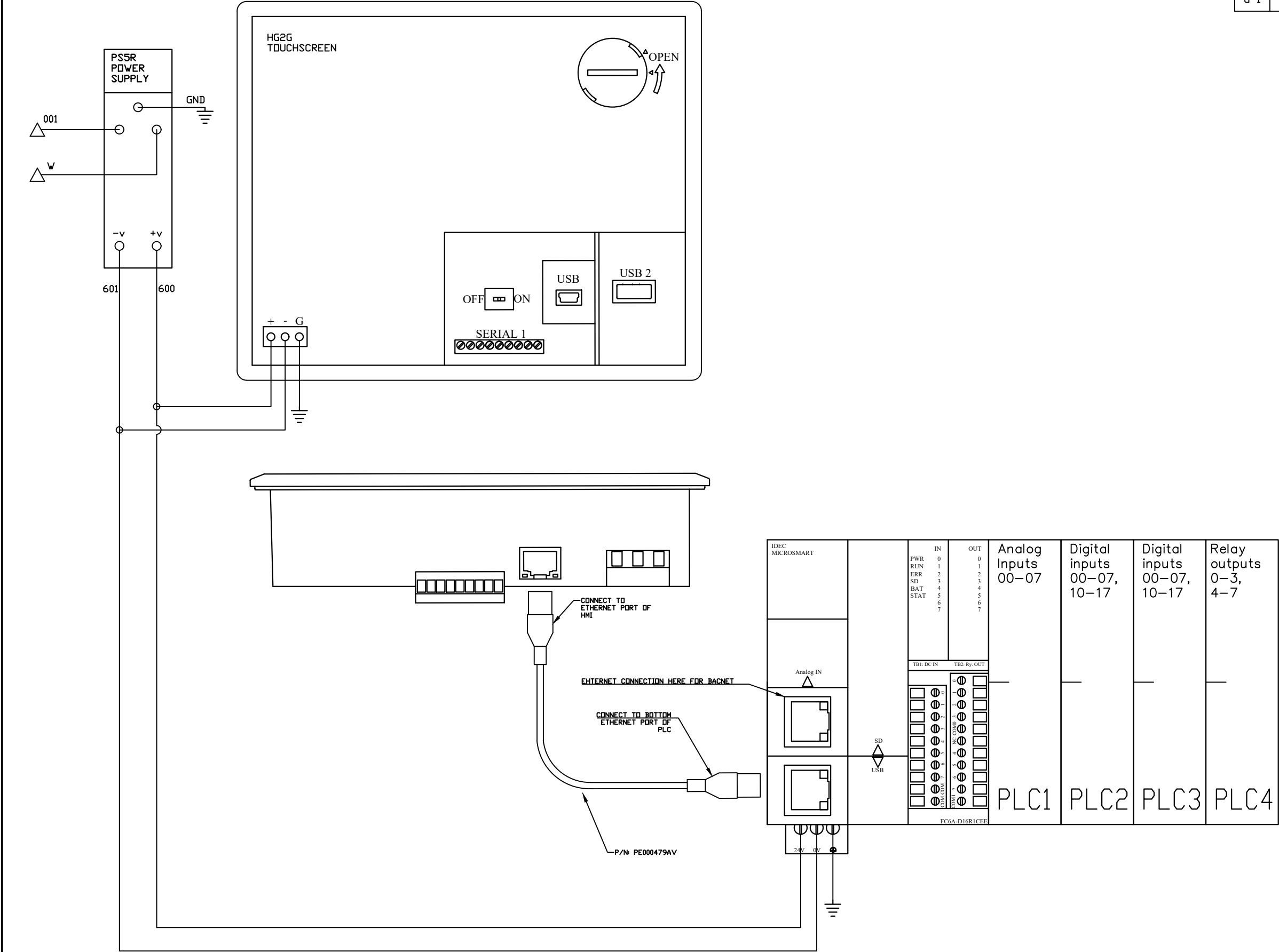
PANEL TYPE
TRIPLEX LAB 15HP SCROLL
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.
PXMI-LS316F W

SHEET	SIZE
W-4	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/26/13	PXEC0029	DMS	GES
F-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
G-1	ADDED PLEX ISOLATION	07/29/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
DMS	GES	DMS
05/26/13	05/26/13	05/26/13

PANEL TYPE

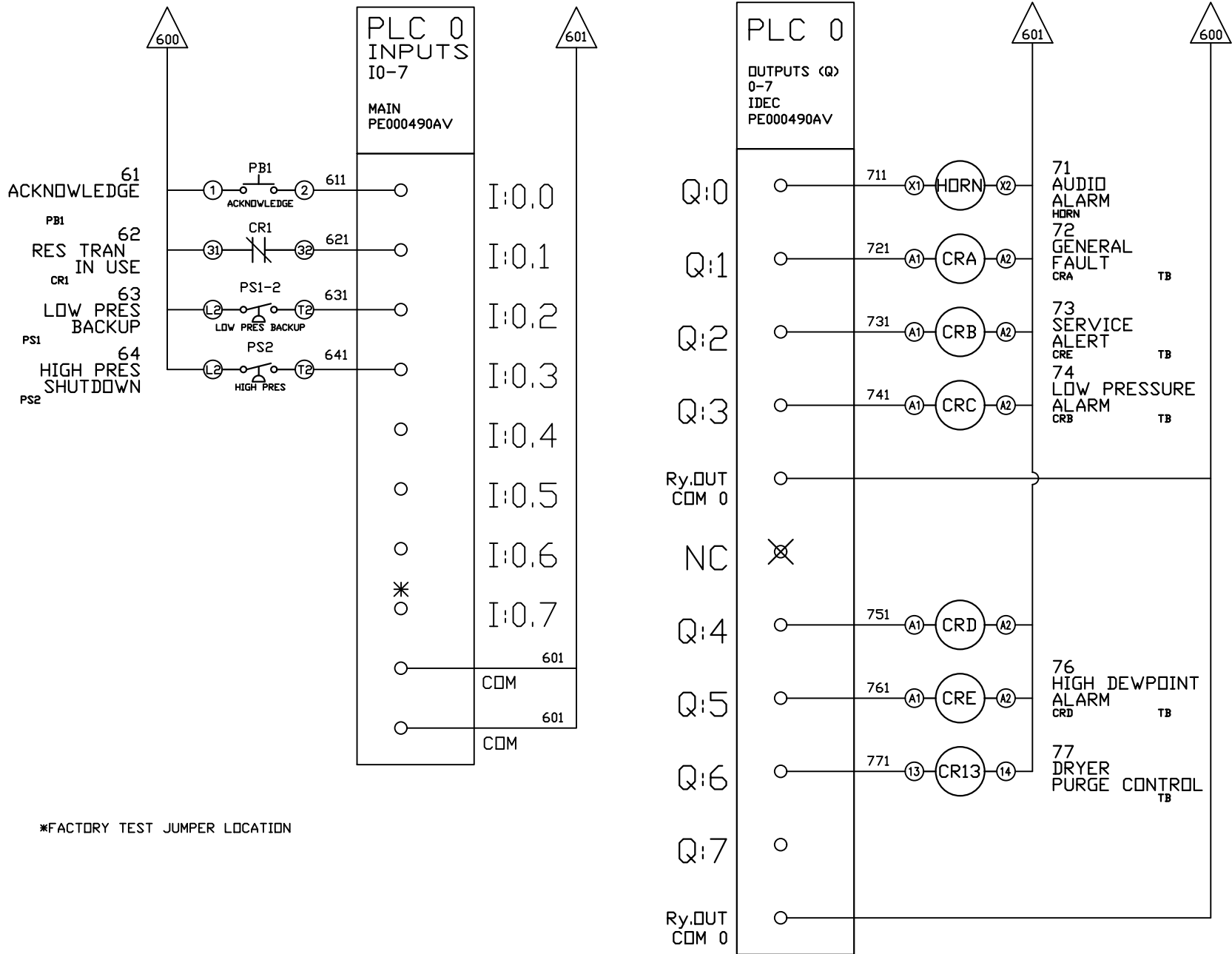
TRIPLEX LAB 15HP SCROLL HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-LS316F W

SHEET	SIZE
W-5	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/26/13	PXEC0029	DMS	GES
F-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
G-1	ADDED PLEX ISOLATION	07/29/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
DMS	GES	DMS
05/26/13	05/26/13	05/26/13

PANEL TYPE

TRIPLEX LAB 15HP SCROLL HMI, NFPA

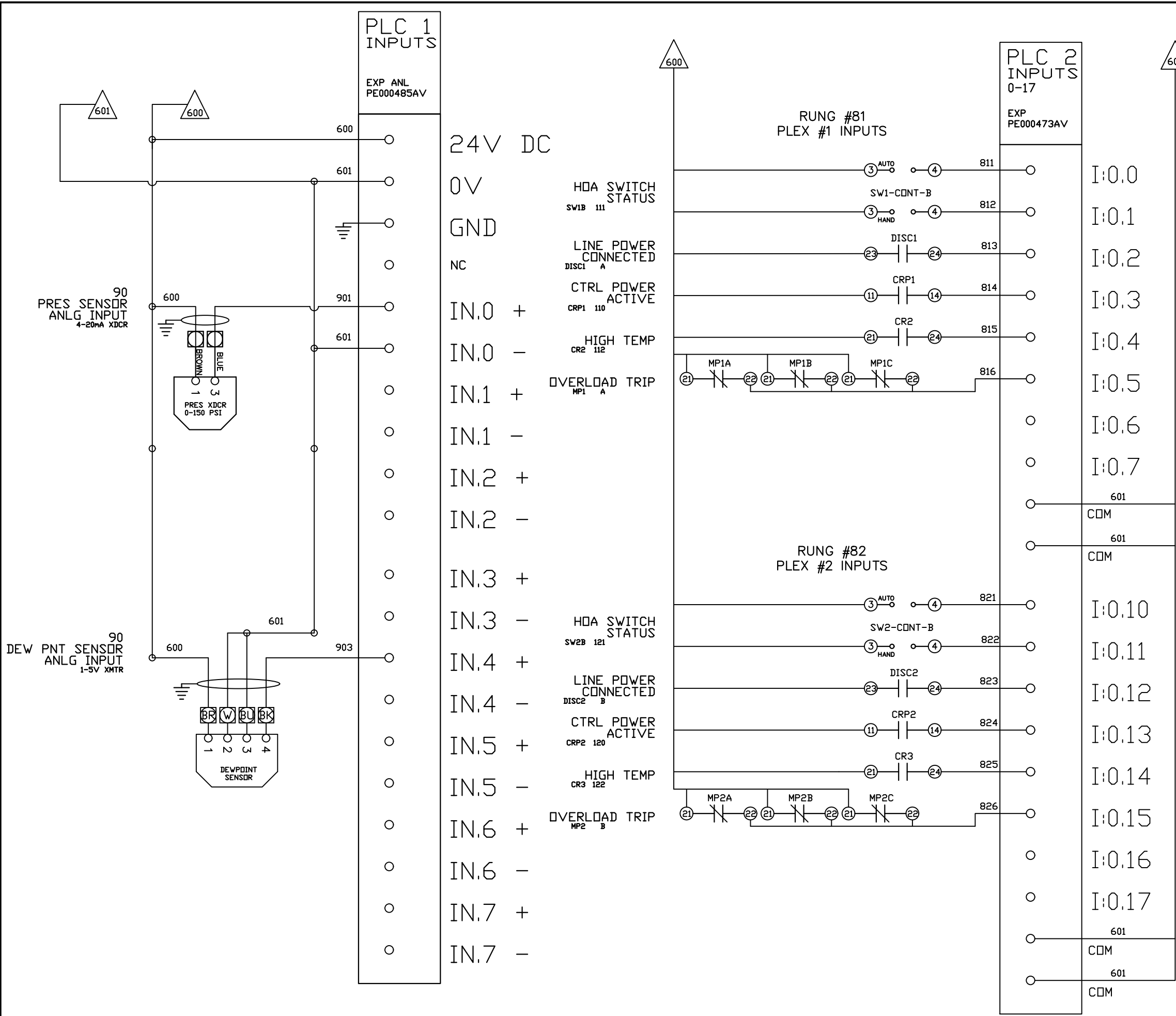
DWG. TYPE WIRING

DWG. NO.

PXMI-LS316F W

SHEET	SIZE
W-6	B

PXMI-LS316F B1



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/26/13	PXEC0029	DMS	GES
F-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
G-1	ADDED PLEX ISOLATION	07/29/25	PXEC0639	SEK	WMM

OPTIONAL:

POWEREX™

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
DMS	GES	DMS
05/26/13	05/26/13	05/26/13

PANEL TYPE
TRIPLEX LAB 15HP SCROLL HMI, NFPA

DWG. TYPE WIRING

DWG. NO.

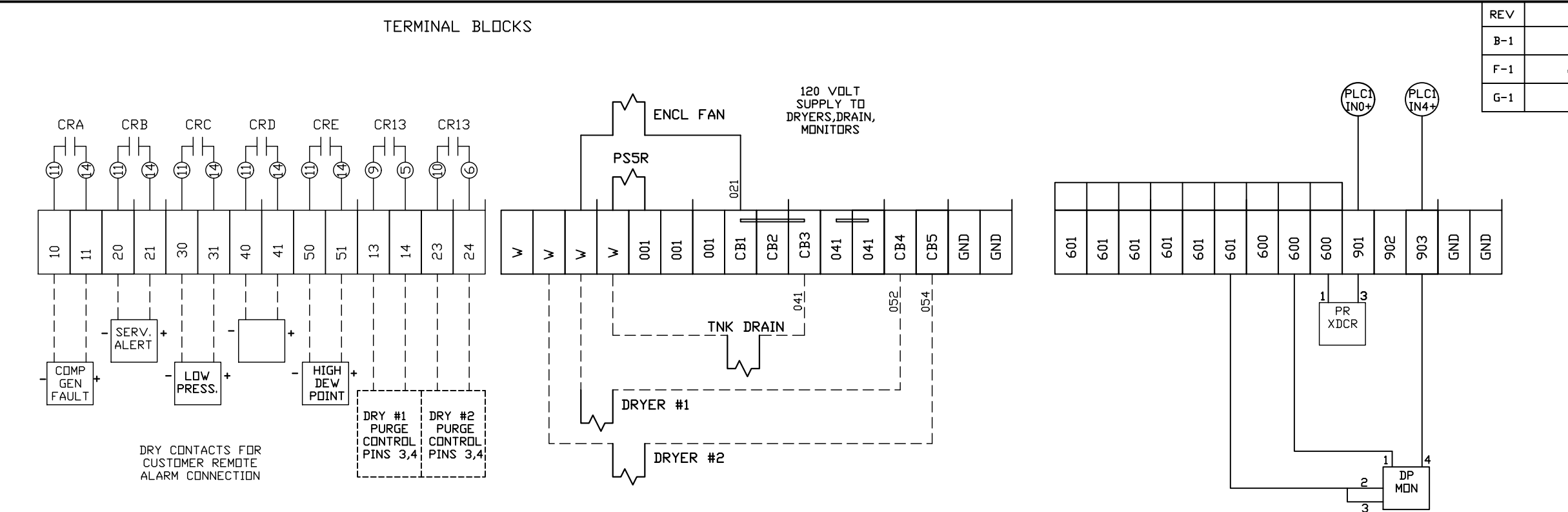
PXMI-LS316F W

SHEET

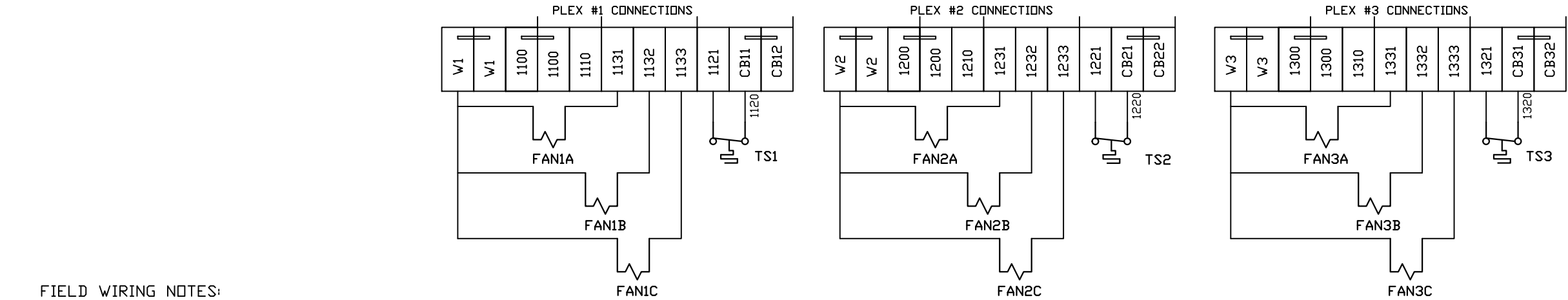
W-7

SIZE

B



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/26/13	PXEC0029	DMS	GES
F-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
G-1	ADDED PLEX ISOLATION	07/29/25	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
DMS	GES	DMS
05/26/13	05/26/13	05/26/13

PANEL TYPE

TRIPLEX LAB 15HP SCROLL HMI, NFPA

DWG. TYPE WIRING

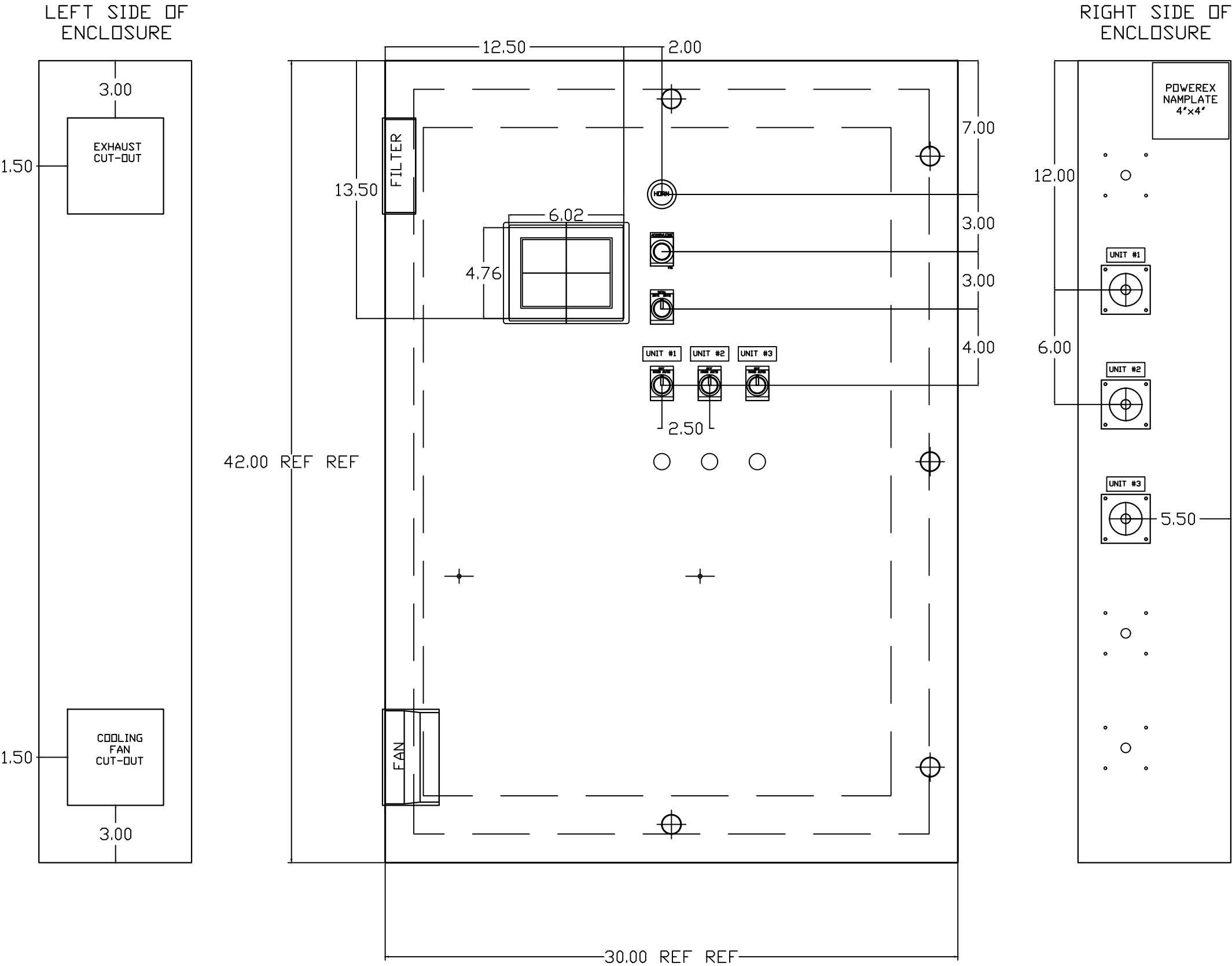
DWG. NO.

PXMI-LS316F W

SHEET	SIZE
W-9	B

PXMI-LS316F B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/26/13	PXEC0029	DMS	GES
F-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
G-1	ADDED PLEX ISOLATION	07/29/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
DMS	GES	DMS
05/26/13	05/26/13	05/26/13

PANEL TYPE

TRIPLEX LAB 15HP SCROLL HMI, NFPA

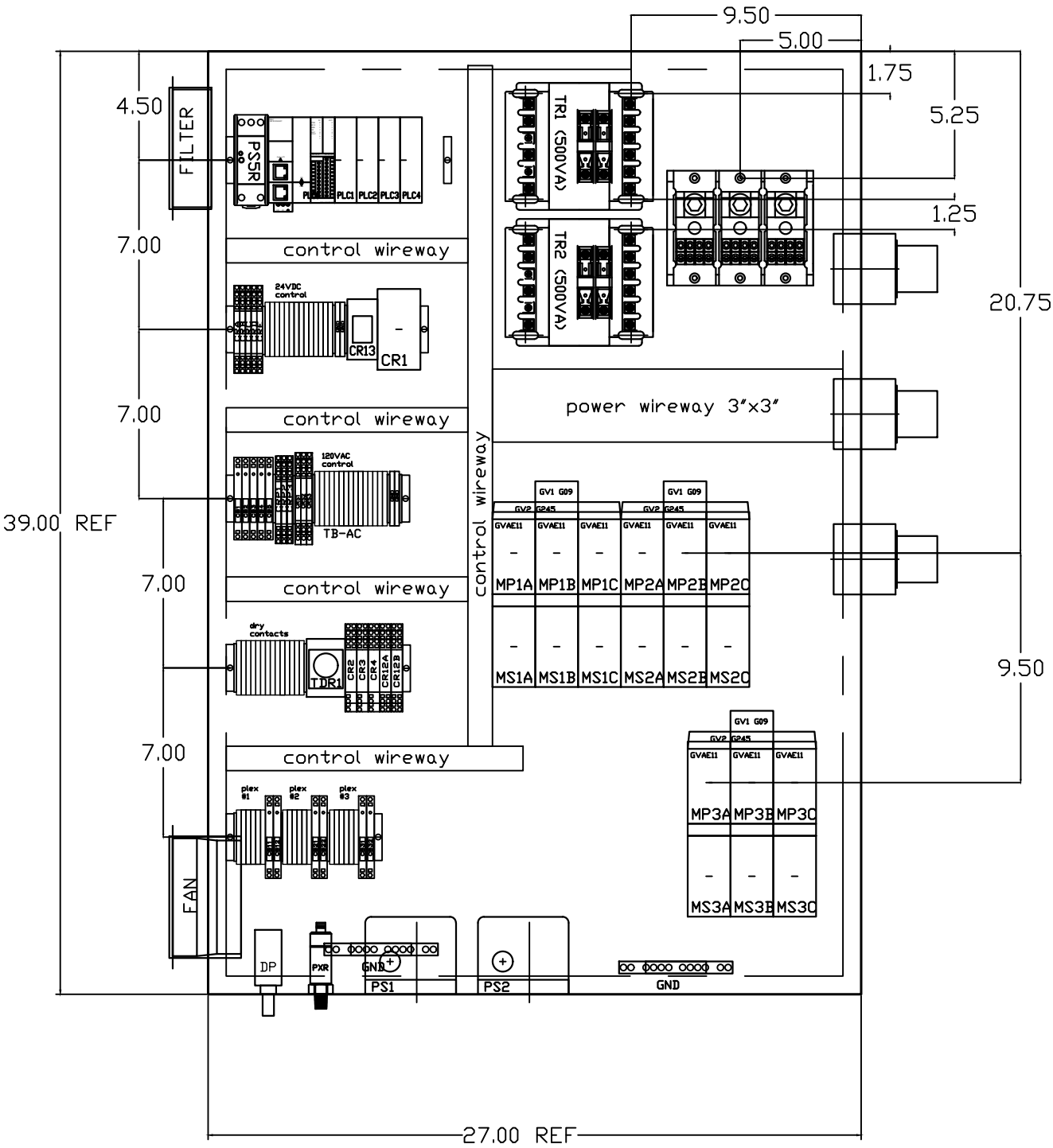
DWG. TYPE LAYOUT

DWG. NO. PXMI-LS316F W

SHEET	SIZE
L-1	B

PXMI-LS316F B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/26/13	PXEC0029	DMS	GES
F-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
G-1	ADDED PLEX ISOLATION	07/29/25	PXEC0639	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
DMS	GES	DMS
05/26/13	05/26/13	05/26/13

PANEL TYPE

TRIPLEX LAB 15HP SCROLL
HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO. PXMI-LS316F W

SHEET	SIZE
L-2	B

PXMI-LS316F 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		
PBMILS316F2AJ (5HPx3)x3	208V/3ø	14.6	133.8		225A	175A	200A		
PBMILS316F3AJ (5HPx3)x3	230V/3ø	12.7	116.5		200A	150A	175A		
PBMILS316F4AJ (5HPx3)x3	460V/3ø	6.33	58.1		100A	80A	90A		
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	575
FUSE TYPE	VOLT	VOLT	380 VOLT	VOLT
FU1,2A FU1,2B	FNQR (CC)	6A	5A	5A
FU3A,B	FNM	7A	7A	7A
SEE XFMR 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
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F-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
G-1	ADDED PLEX ISOLATION	07/29/25	PXEC0639	SEK	WMM

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
DMS	GES	DMS
05/26/13	05/26/13	05/26/13

PANEL TYPE

TRIPLEX LAB 15HP SCROLL
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.

PXMI-LS316F W

SHEET	SIZE
D-1	B

PXMI-LS316F B1