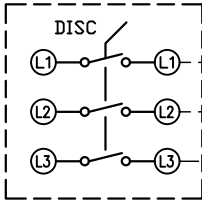
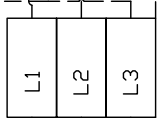


REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0667	BTS	SEK



FIELD FURNISHED
DISCONNECT IS
REQUIRED

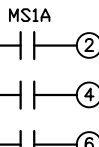
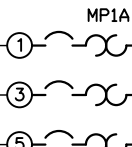
SEE NOTES ON
DATA TABLE PAGE



L1
L2



AL1
AL2
AL3



AL1A
AL2A
AL3A

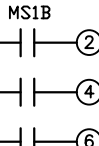
SS1A

AT1A
AT2A
AT3A



A
POWER
UNIT #1A
MP1A

MP1B



AL1B
AL2B
AL3B

SS1B

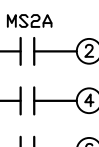
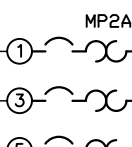
AT1B
AT2B
AT3B



A
POWER
UNIT #1B
MP1B



BL1
BL2
BL3



BL1A
BL2A
BL3A

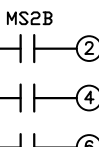
SS2A

BT1A
BT2A
BT3A



B
POWER
UNIT #2A
MP2A

MP2B



BL1B
BL2B
BL3B

SS2B

BT1B
BT2B
BT3B



B
POWER
UNIT #2B
MP2B

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE

DUPLEX LAB COMP

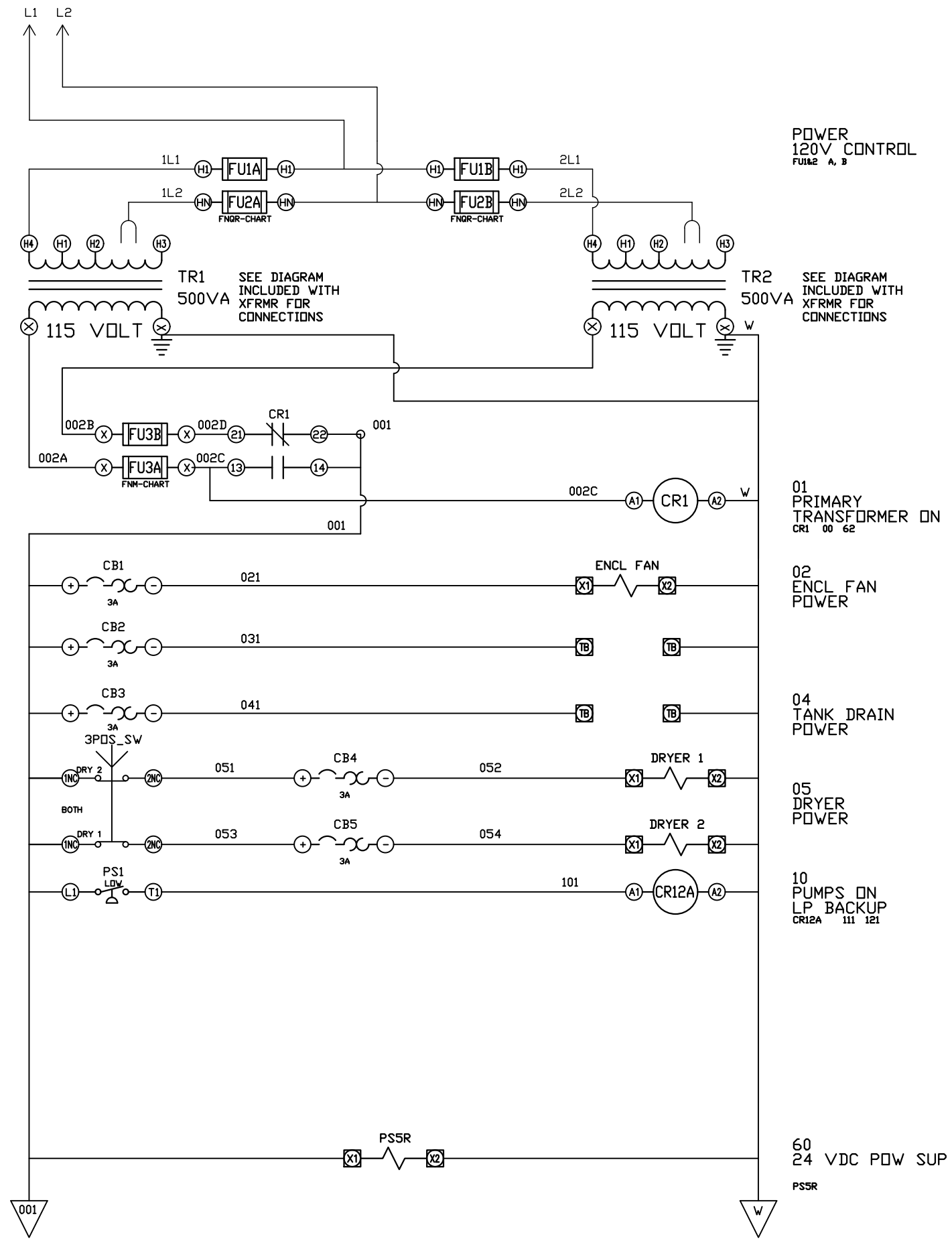
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE WIRING

DWG. NO.
PXMI-LSS216X

SHEET	SIZE
W-1	B

PXMI-LSS216X



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0667	BTS	SEK

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE
DUPLX LAB COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

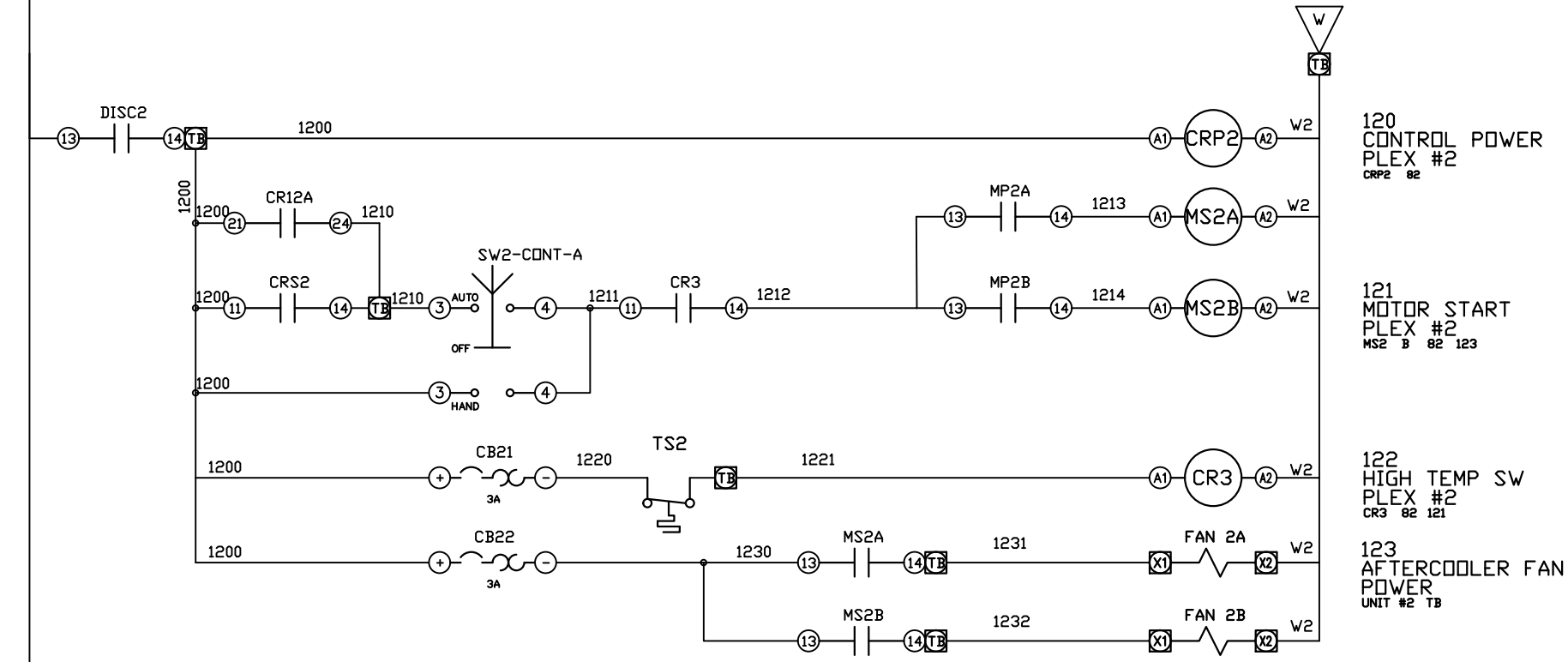
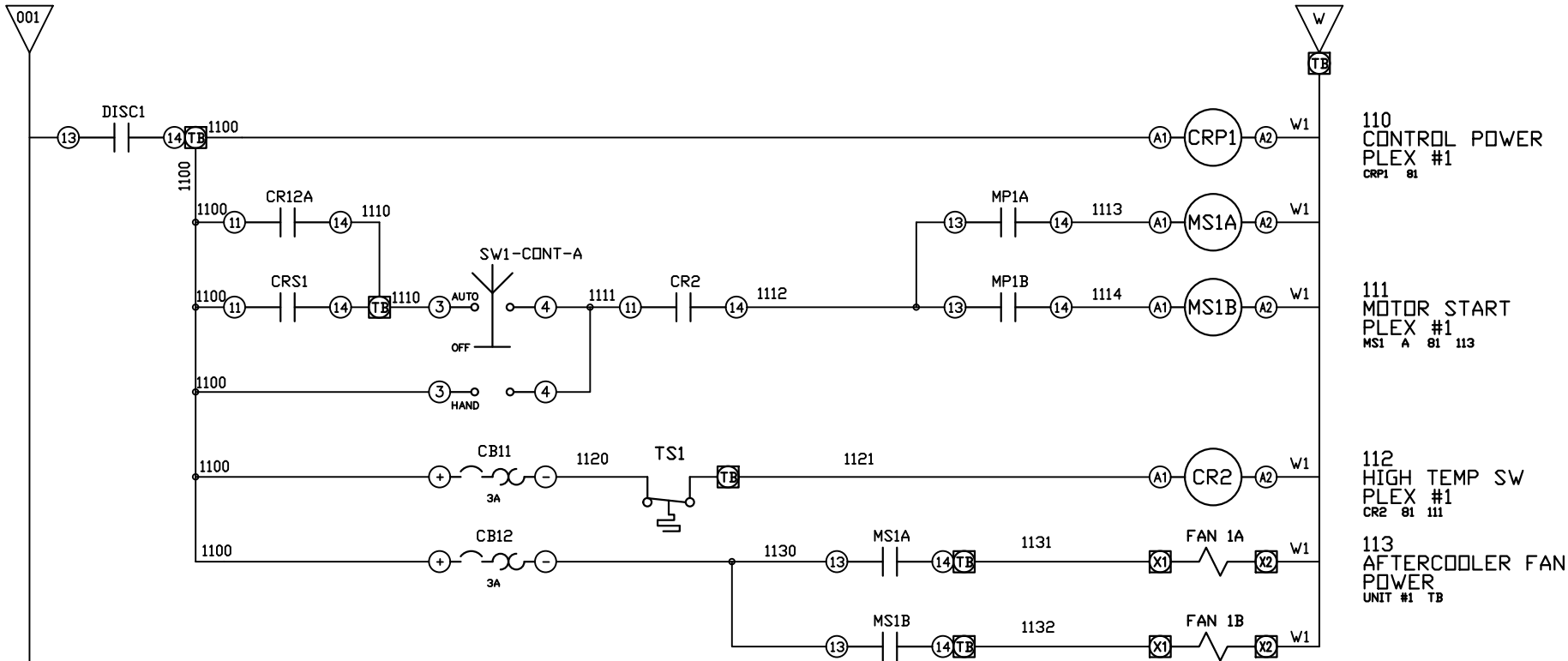
DWG. TYPE
WIRING

DWG. NO.
PXMI-LSS216X

SHEET W-2	SIZE B
--------------	-----------

PXMI-LSS216X

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0667	BTS	SEK



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

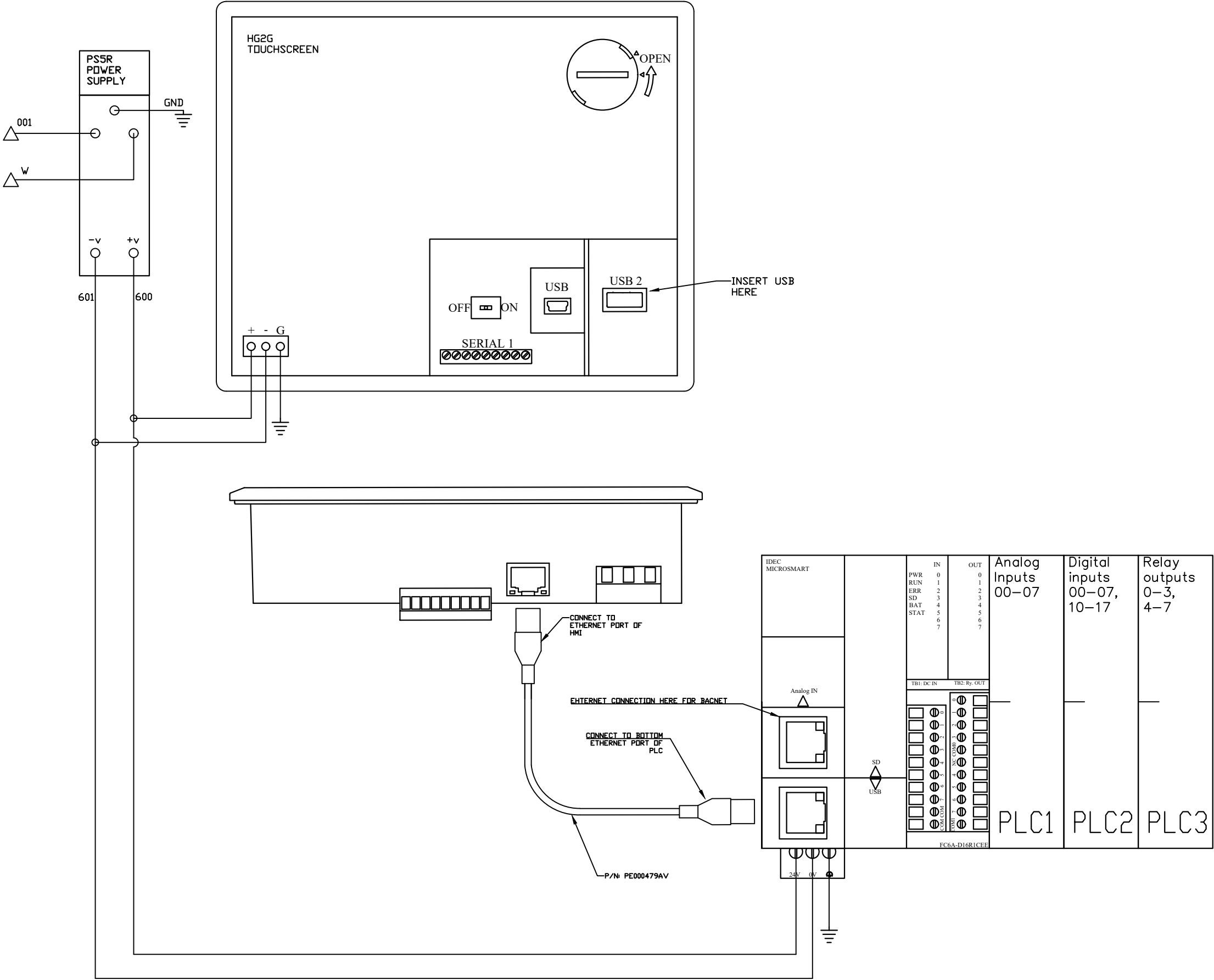
PANEL TYPE
DUPLX LAB COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE
WIRING

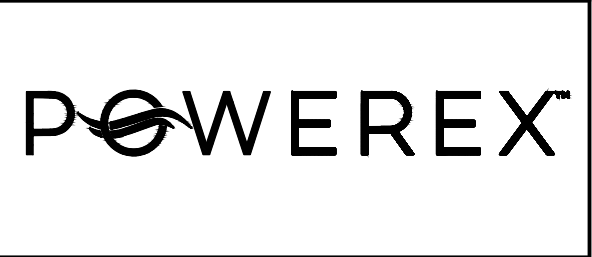
DWG. NO.
PXMI-LSS216X

SHEET	SIZE
W-3	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0667	BTS	SEK



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

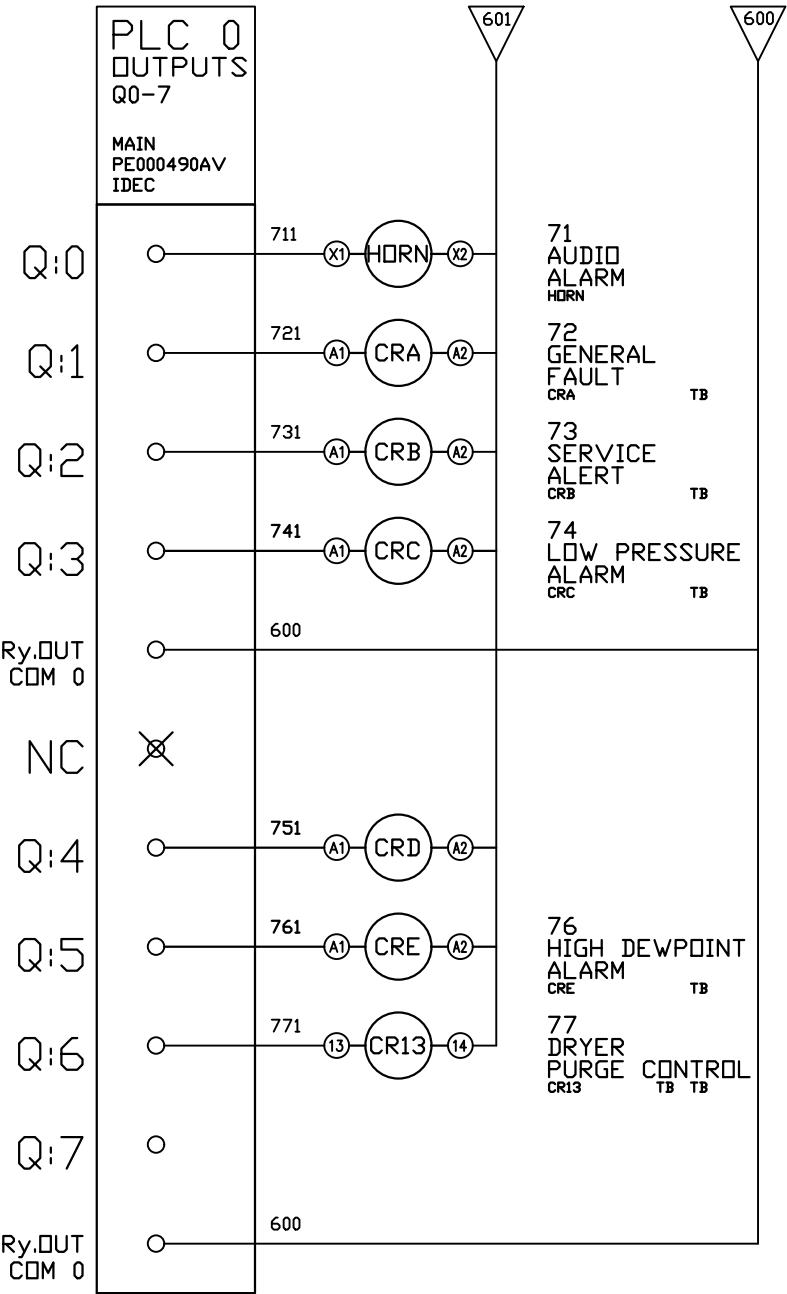
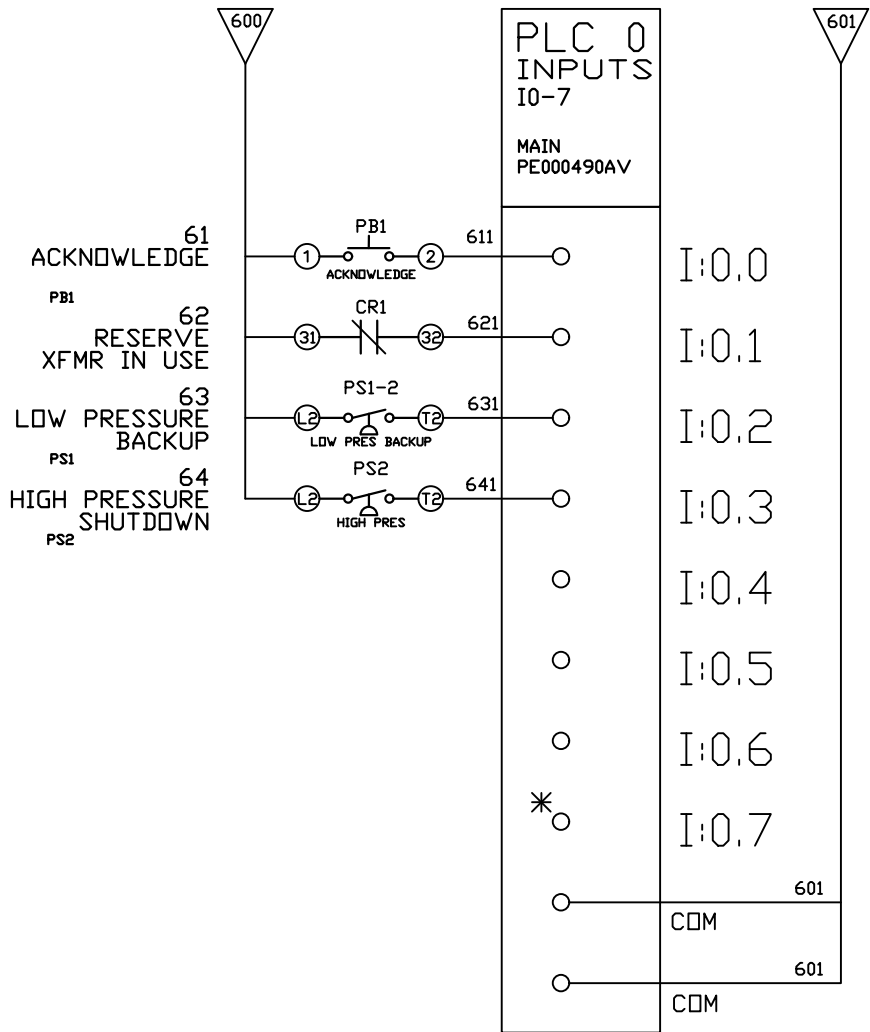
PANEL TYPE
DUPLX LAB COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE WIRING

DWG. NO.
PXMI-LSS216X

SHEET	SIZE
W-4	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0677	BTS	SEK



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE
DUPLX LAB COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

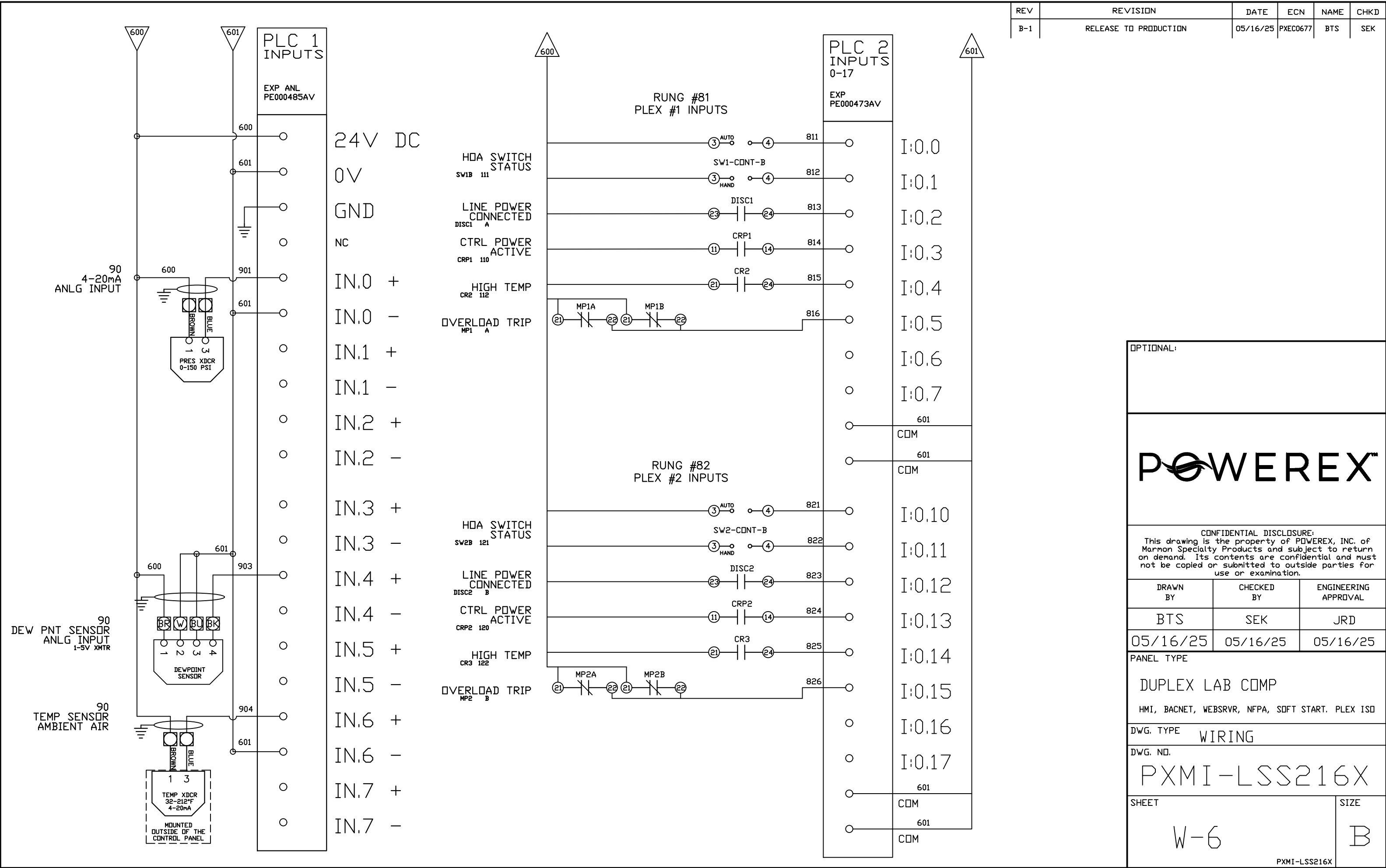
DWG. TYPE
WIRING

DWG. NO.
PXMI-LSS216X

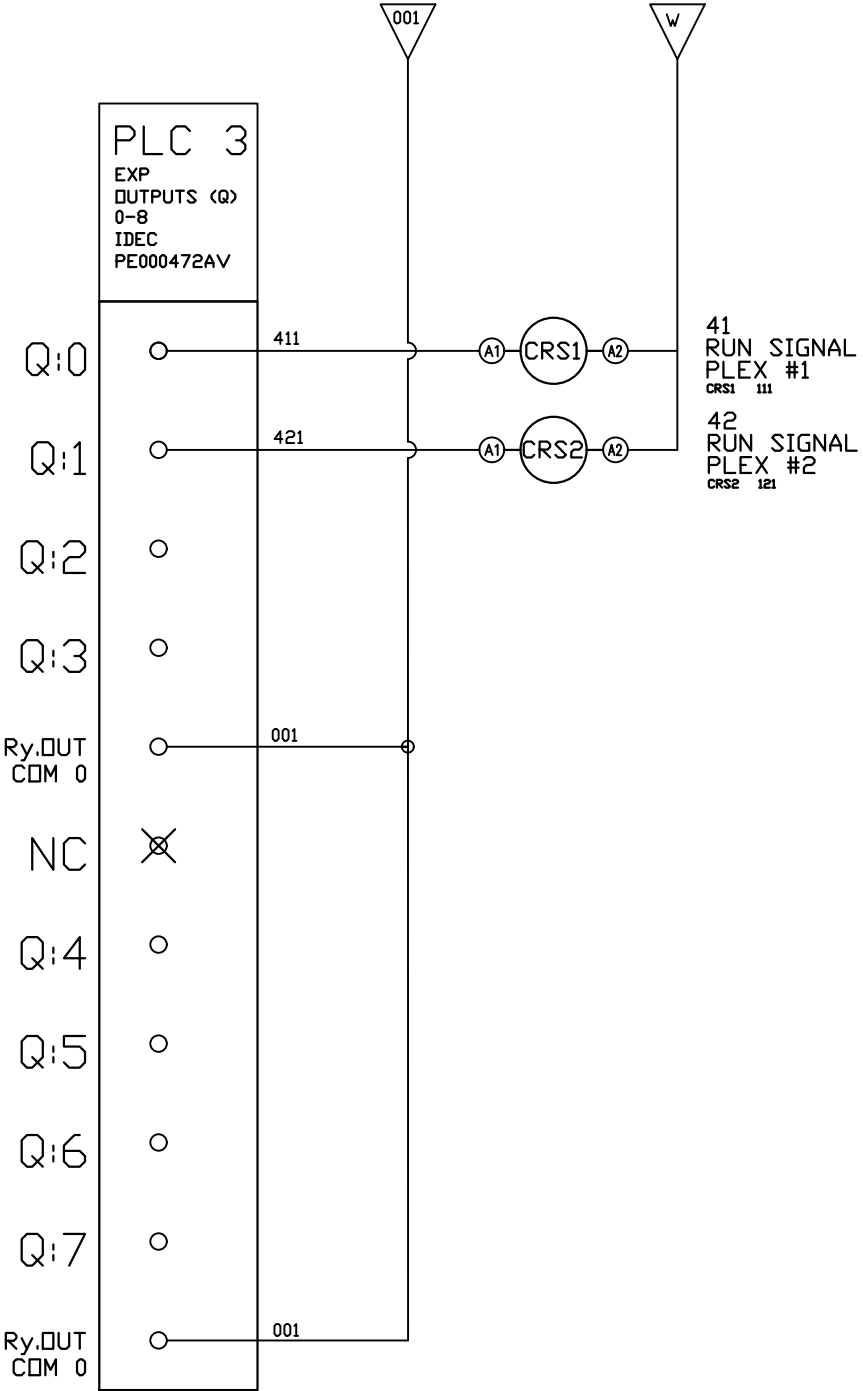
SHEET W-5	SIZE B
--------------	-----------

PXMI-LSS216X

* INSTALL JUMPER FOR FACTORY TEST



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0677	BTS	SEK



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE
DUPLX LAB COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE
WIRING

DWG. NO.
PXMI-LSS216X

SHEET W-7	SIZE B
--------------	-----------

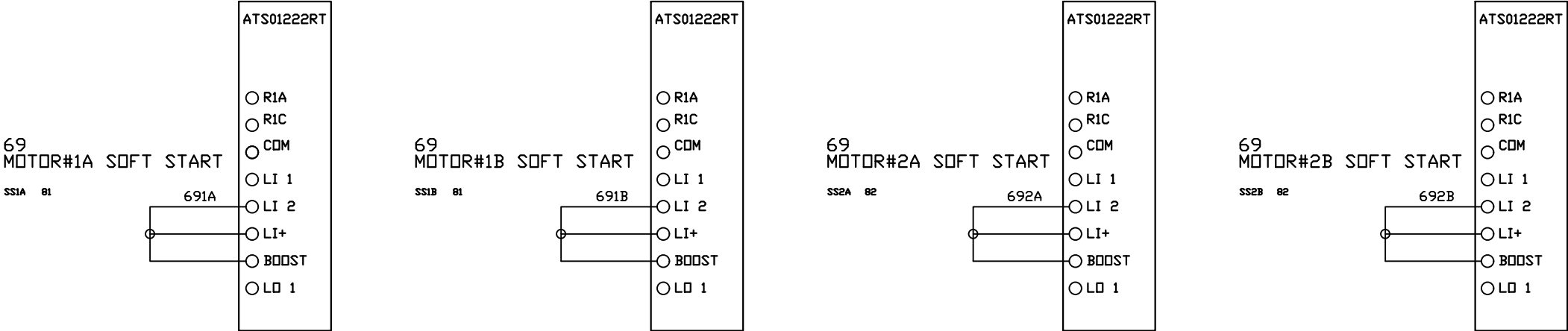
PXMI-LSS216X

SET START TIME TO 3-SEC (B)

SET INITIAL VOLT SETTING TO 67% (D)

SET STOP TIME TO 60 SEC (C)

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0677	BTS	SEK



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE

DUPLEX LAB COMP

HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE WIRING

DWG. NO.

PXMI-LSS216X

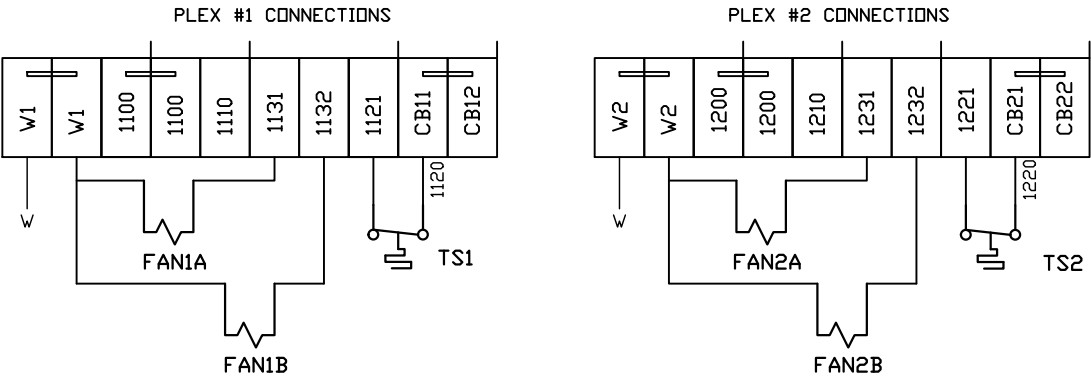
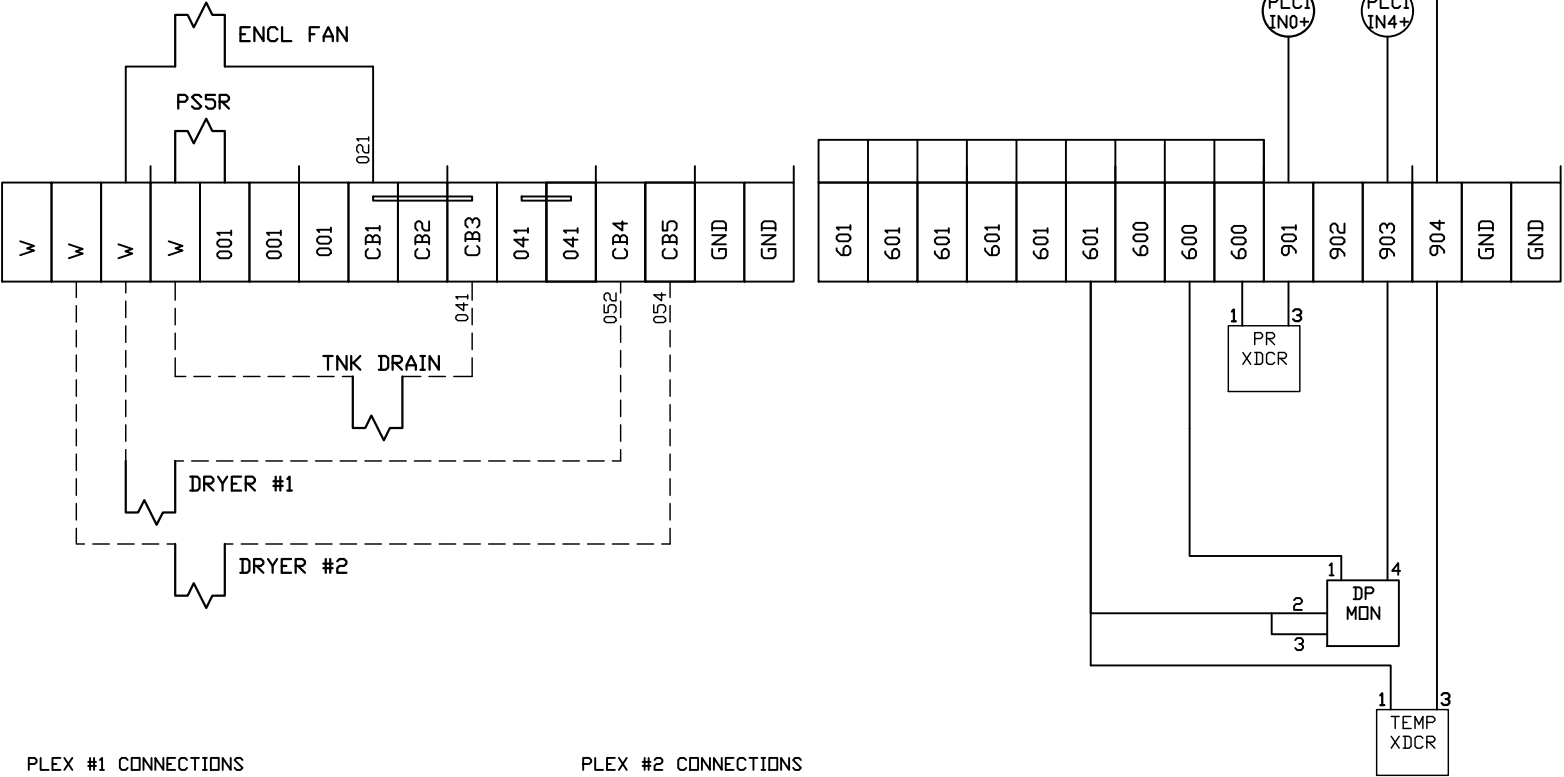
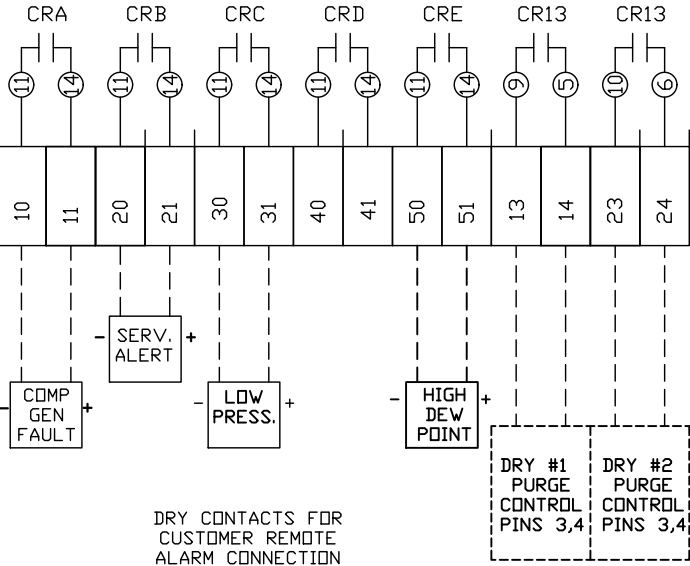
SHEET	SIZE
W-8	B

PXMI-LSS216X

TERMINAL BLOCKS

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0677	BTS	SEK

120 VOLT
SUPPLY TO
DRYERS,DRAIN,
MONITORS



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:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

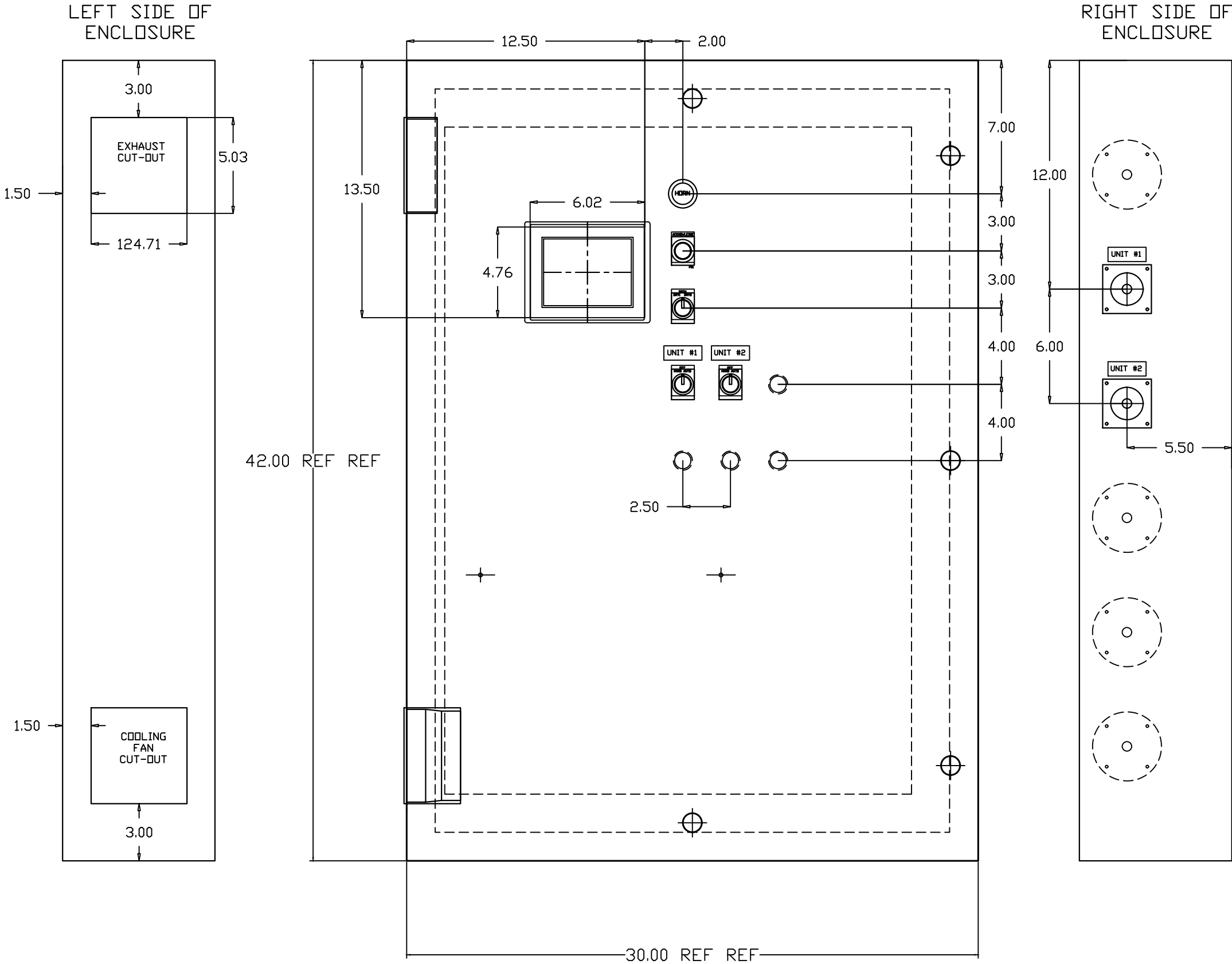
PANEL TYPE
DUPLX LAB COMP
HMI, BACNET, WEBSRVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE WIRING

DWG. NO. PXMI-LSS216X

SHEET	SIZE
W-9	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0677	BTS	SEK



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE

DUPLEX LAB COMP

HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

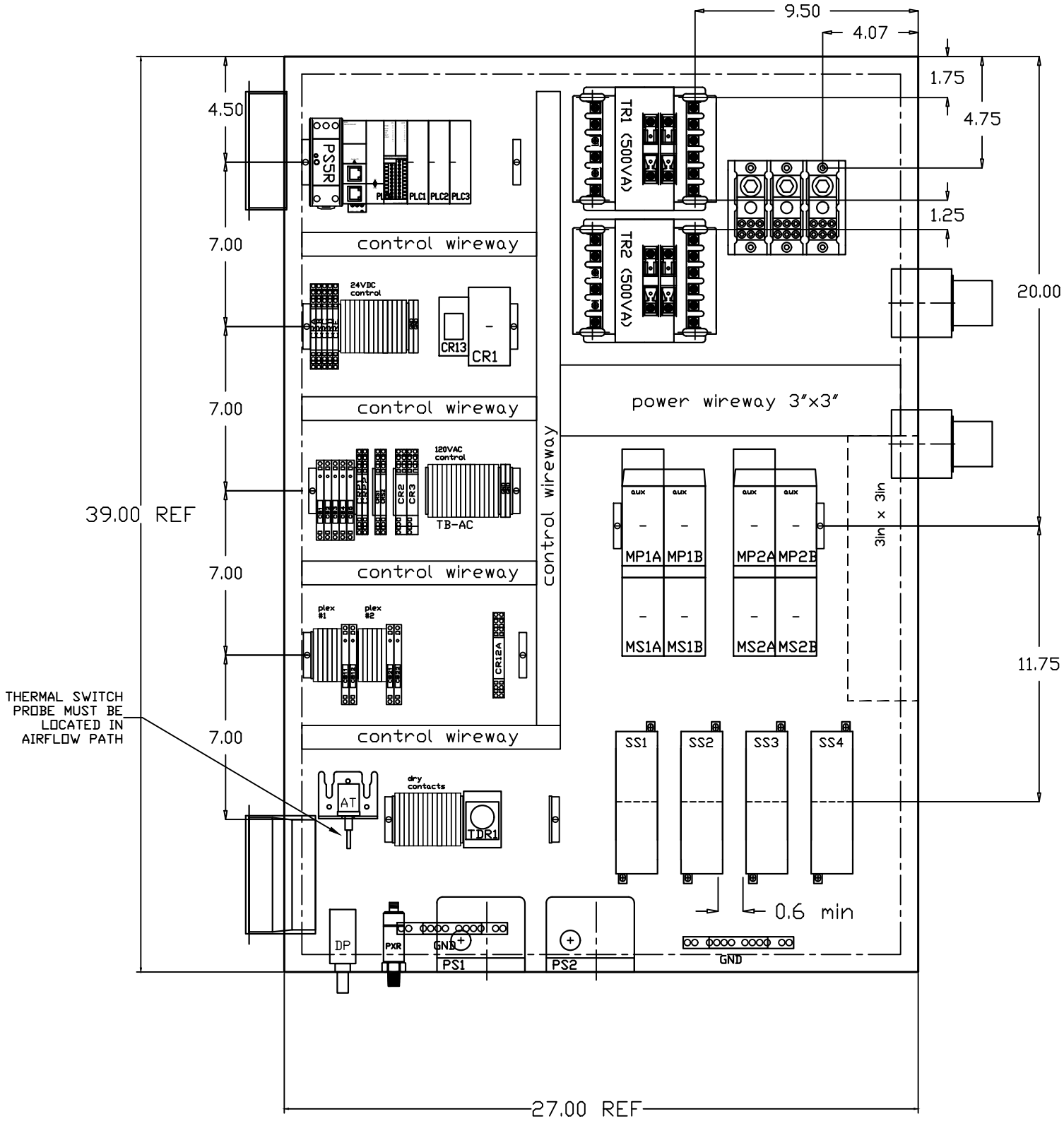
DWG. TYPE LAYOUT

DWG. NO. PXMI-LSS216X

SHEET	SIZE
LA-1	B

PXMI-LSS216X

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0677	BTS	SEK



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE

DUPLEX LAB COMP

HMI, BACNET, WEBSRV, NFPA, SOFT START. PLEX ISO

DWG. TYPE LAYOUT

DWG. NO.

PXMI-LSS216X

SHEET	SIZE
LA-2	B

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		
PBMILSS216E2AJ	7.5(X2)	208V/3Ø	21.1	86.6	150A	125A	125A		
PBMILSS216E3AJ	7.5(X2)	230V/3Ø	17.9	73.8	110A	90A	110A		
PBMILSS216E4AJ	7.5(X2)	460V/3Ø	8.97	37.9	60A	45A	60A		
PBMILSS216G2AJ	10(X2)	208V/3Ø	26.5	108	175A	150A	150A		
PBMILSS216G3AJ	10(X2)	230V/3Ø	24.0	98	150A	125A	150A		
PBMILSS216G4AJ	10(X2)	460V/3Ø	12.0	50	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 (CC)	6A	5A	5A	4A
FU1,2B					
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	05/16/25	PXEC0677	BTS	SEK

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE

DUPLEX LAB COMP

HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE DATA

DWG. NO.

PXMI-LSS216X

SHEET	SIZE
D-1	B

PXMI-LSS216X