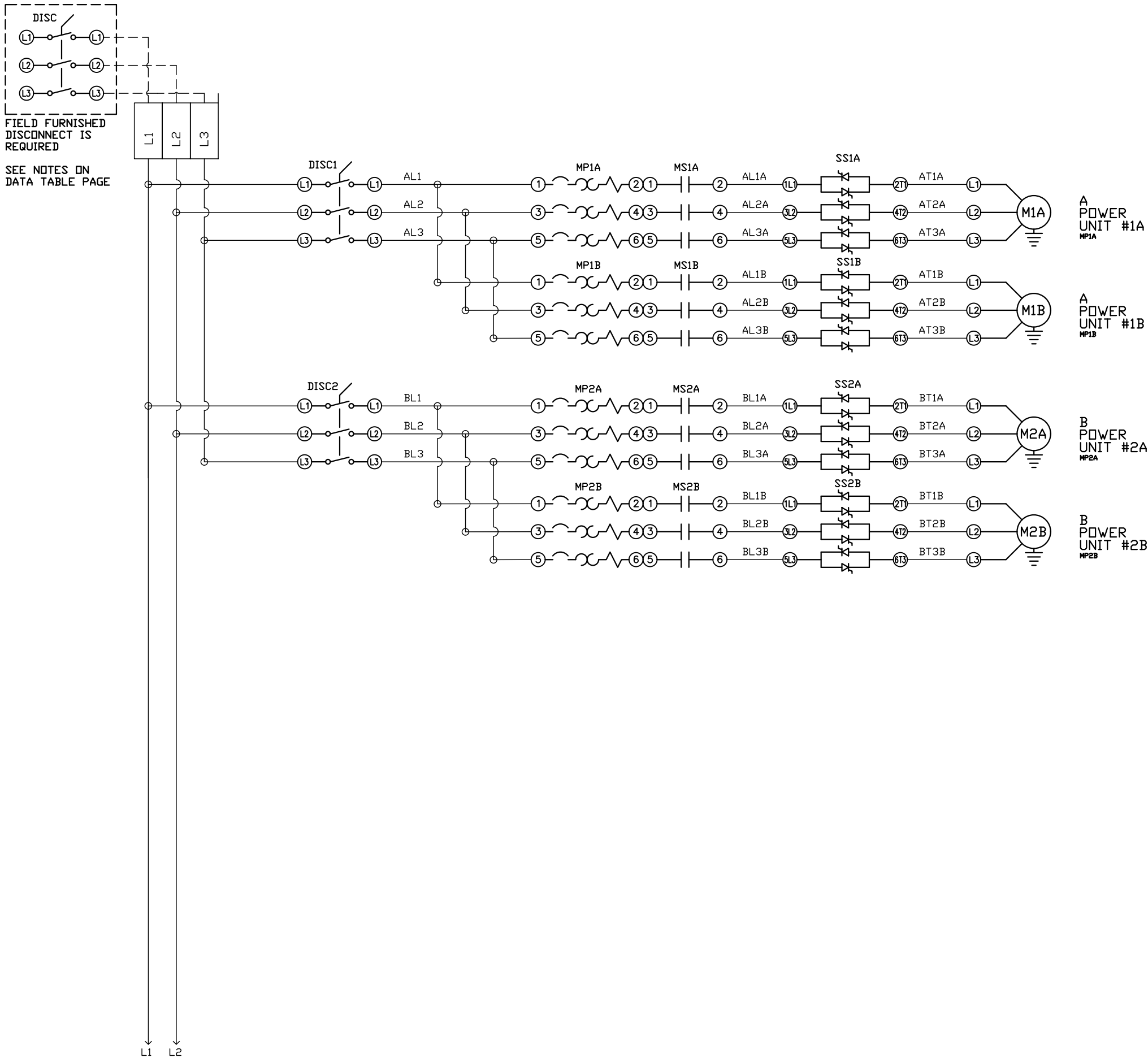


REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/12/25	05/12/25	05/12/25

PANEL TYPE

DUPLEX MEDICAL COMP

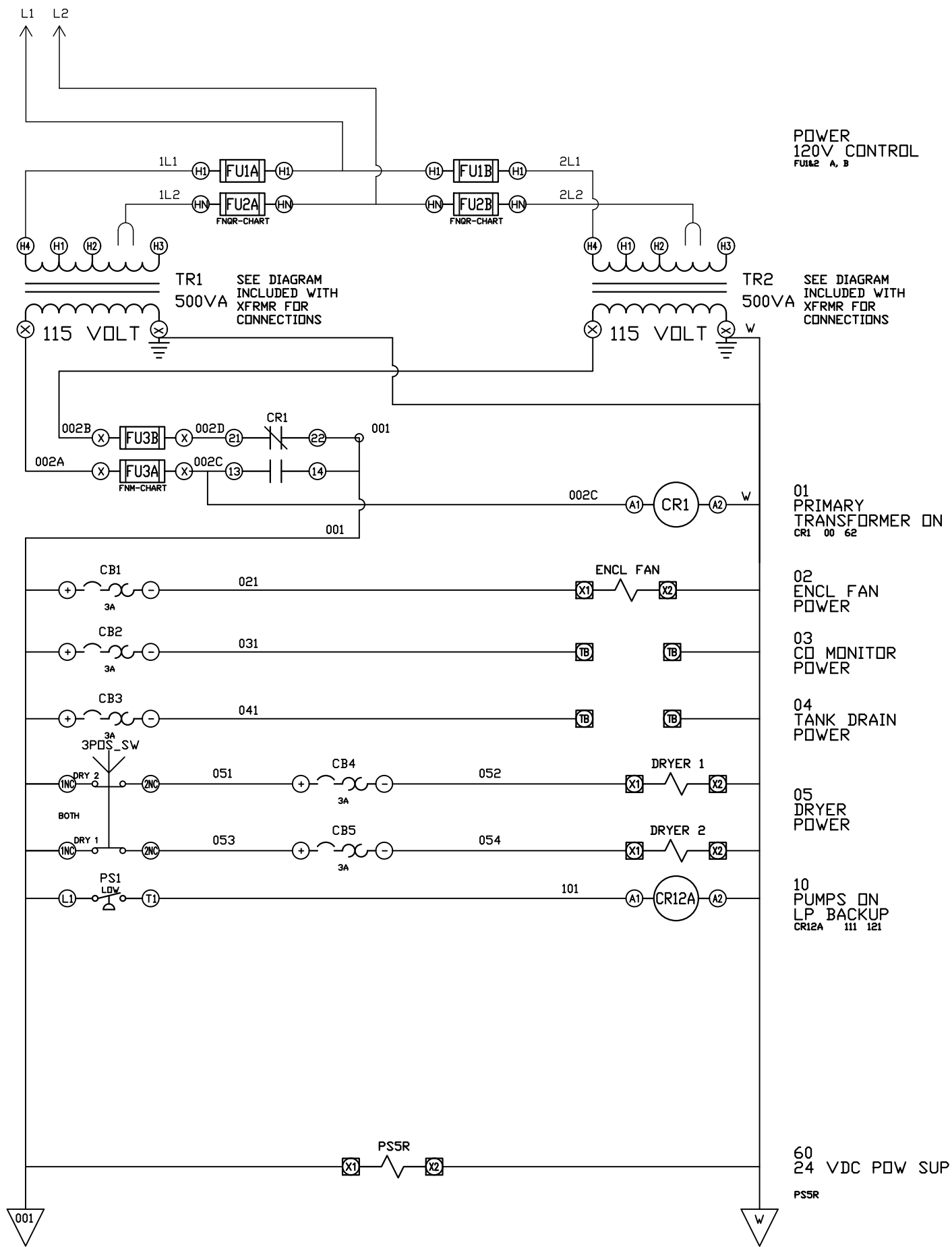
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE WIRING

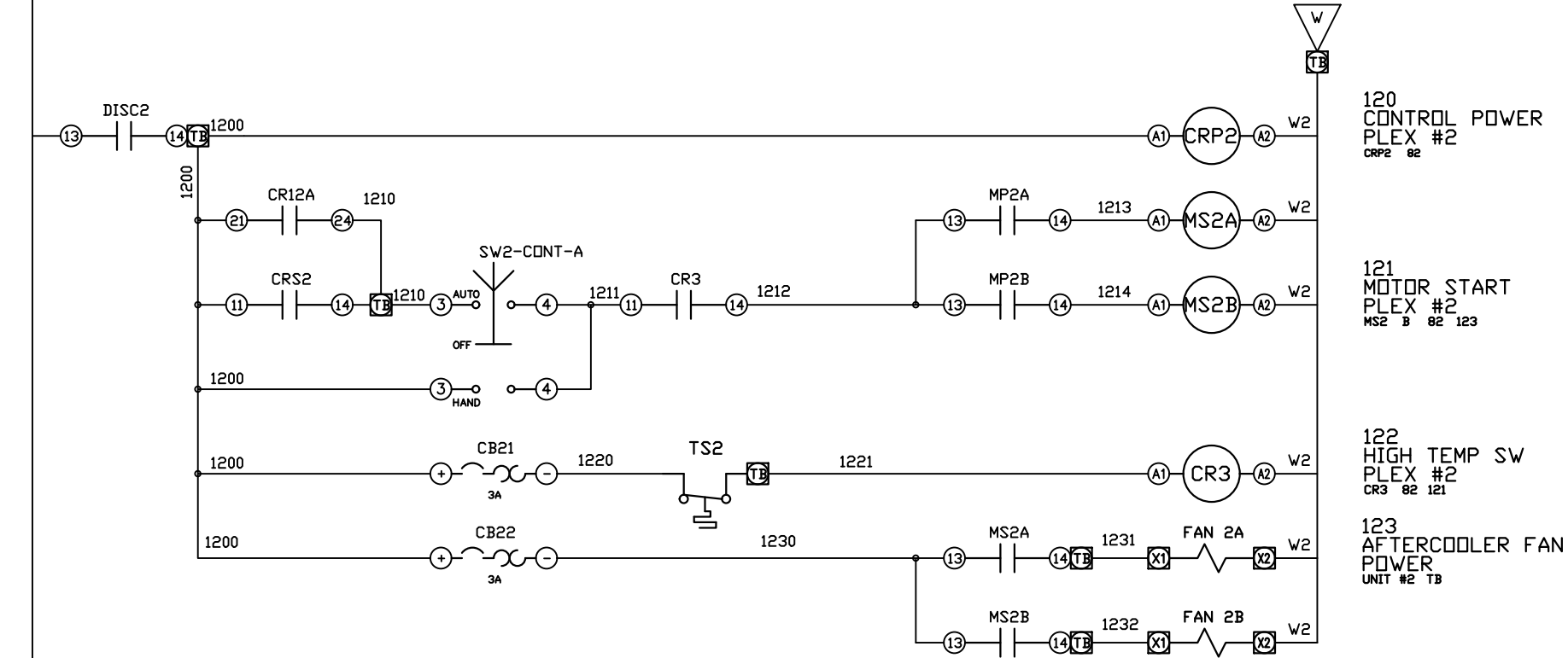
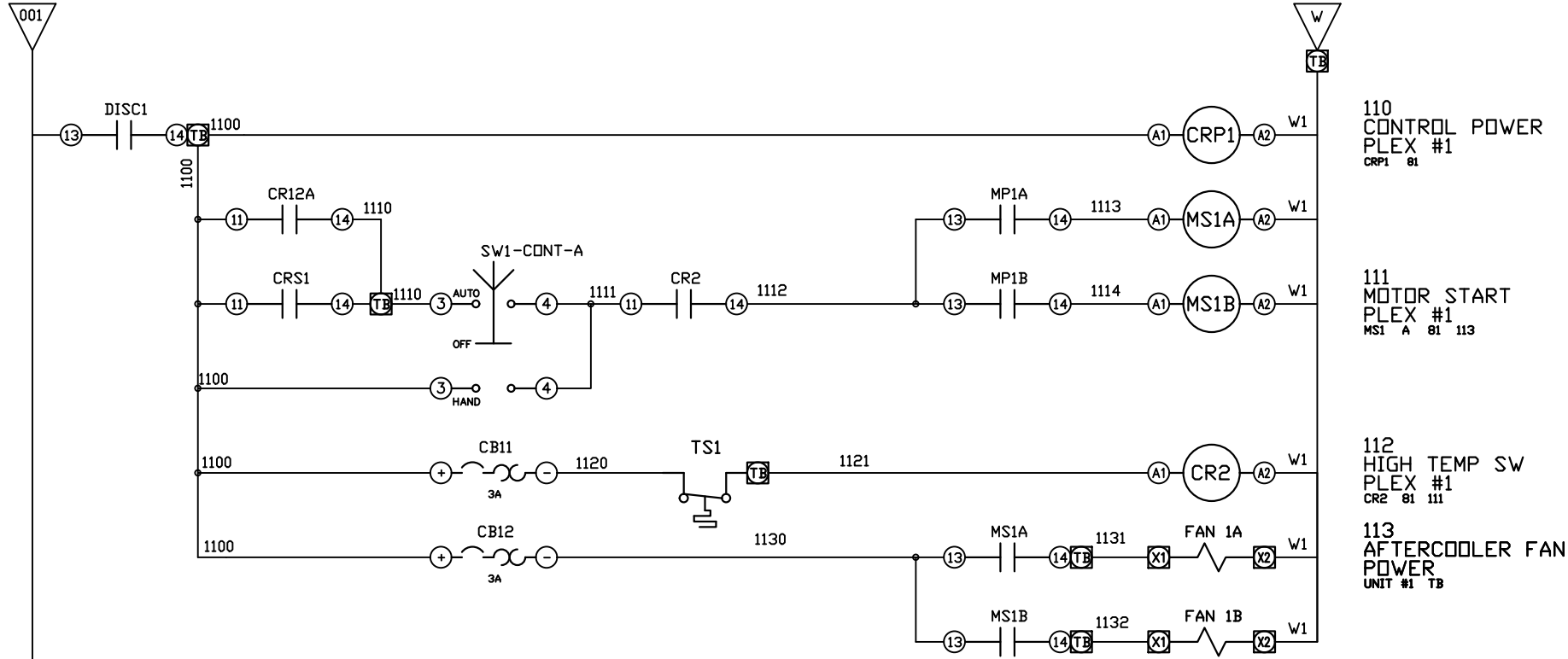
DWG. NO. PXMI-SS216X

SHEET	SIZE
W-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/12/25	05/12/25	05/12/25

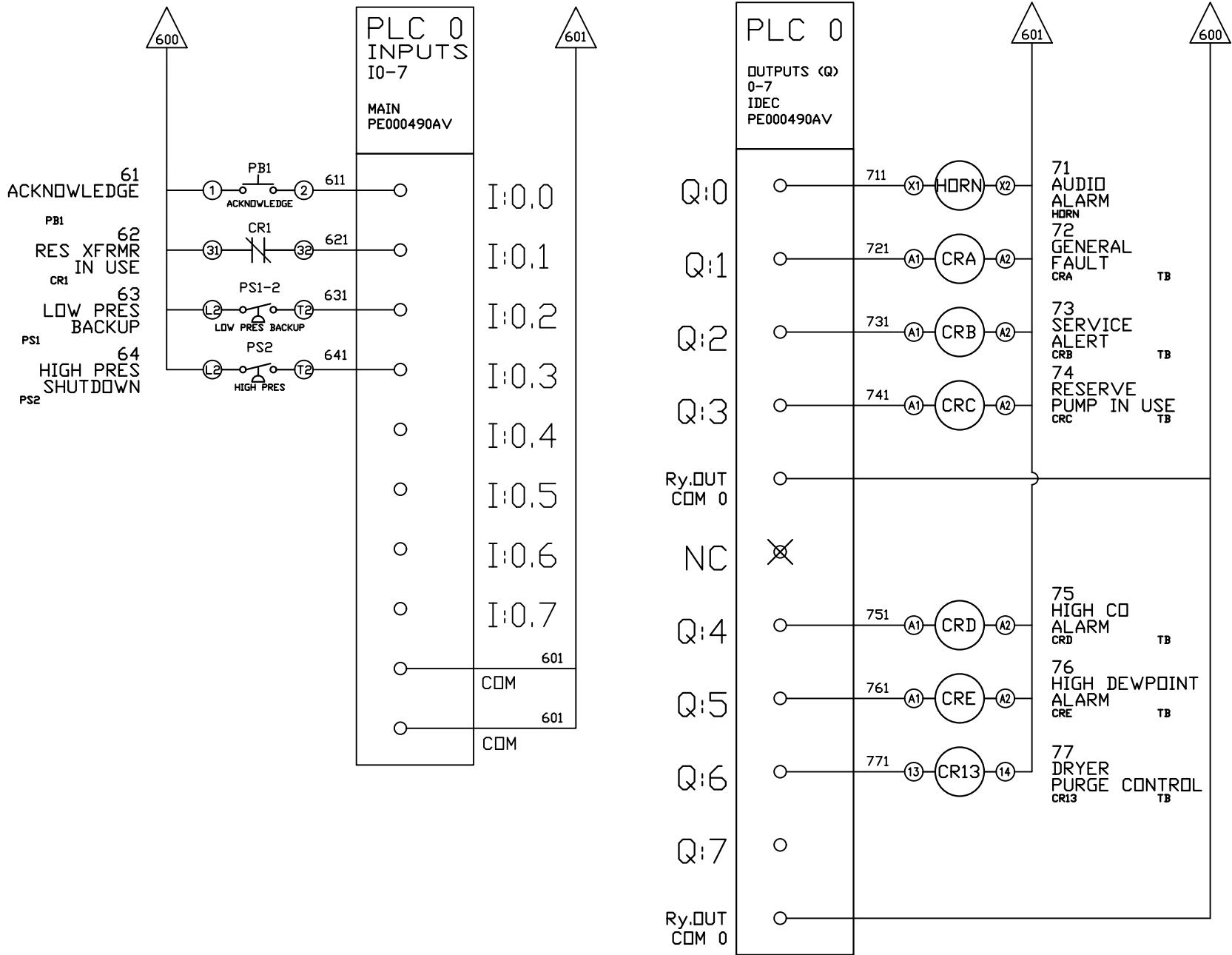
PANEL TYPE
DUPLX MEDICAL COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE
WIRING

DWG. NO.
PXMI-SS216X

SHEET	SIZE
W-3	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/12/25	05/12/25	05/12/25

PANEL TYPE

DUPLEX MEDICAL COMP

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

DWG. TYPE

WIRING

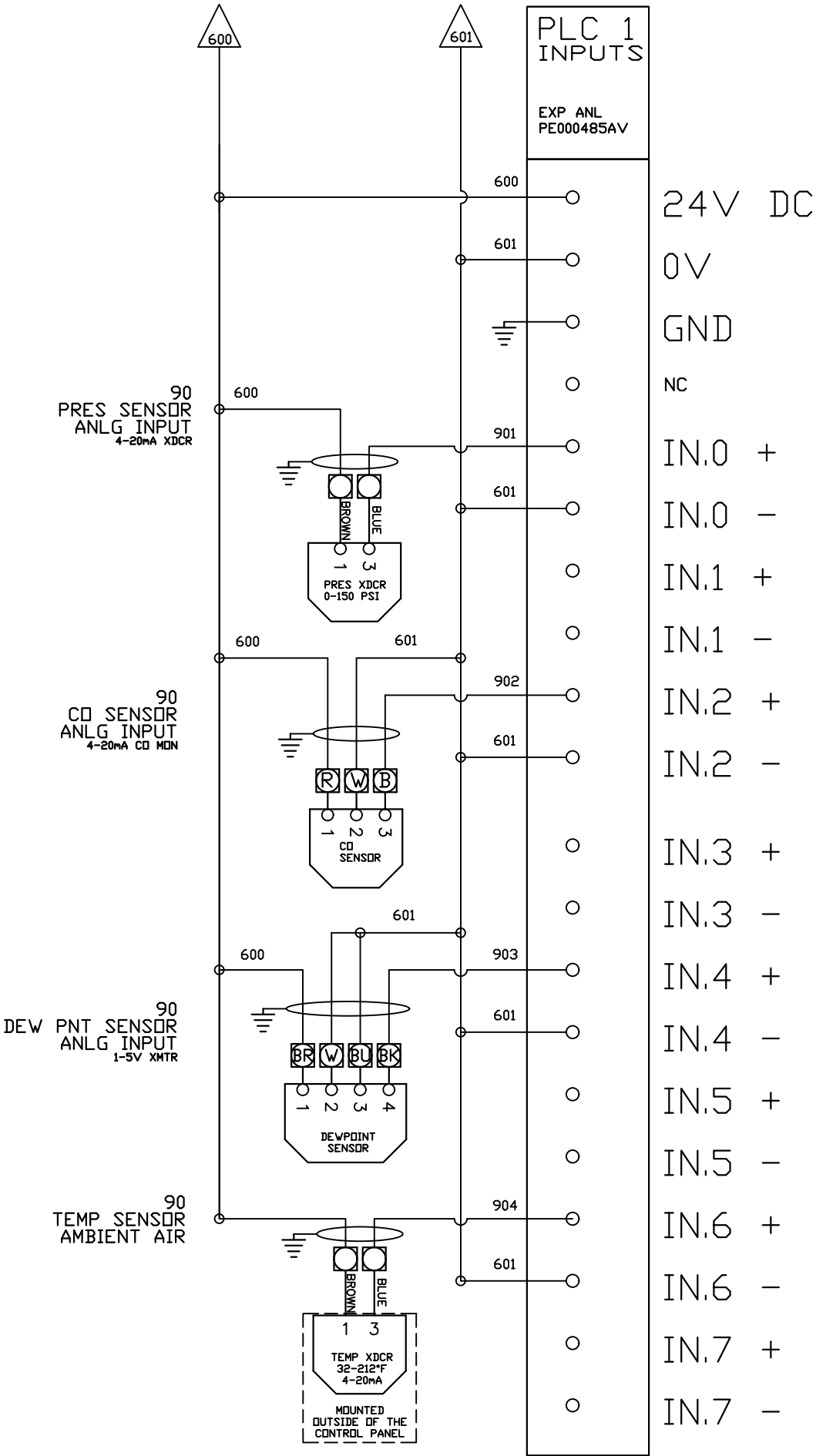
DWG. NO.

PXMI-SS216X

SHEET	SIZE
W-5	B

PXMI-SS216X

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/12/25	05/12/25	05/12/25

PANEL TYPE

DUPLEX MEDICAL COMP

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

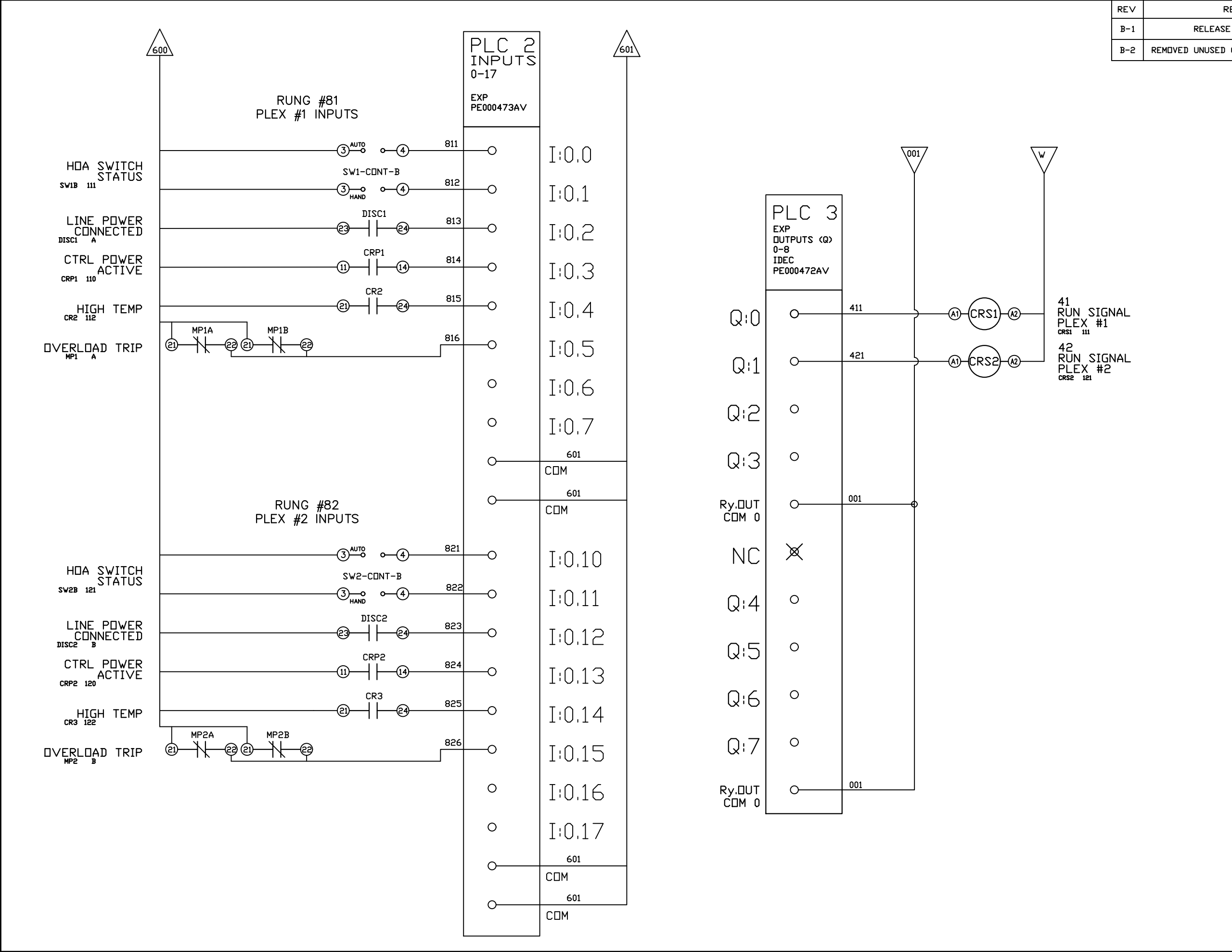
DWG. TYPE WIRING

DWG. NO. PXMI-SS216X

SHEET	SIZE
W-6	B

PXMI-SS216X

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/12/25	05/12/25	05/12/25

PANEL TYPE

DUPLEX MEDICAL COMP

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

DWG. TYPE WIRING

DWG. NO. PXMI-SS216X

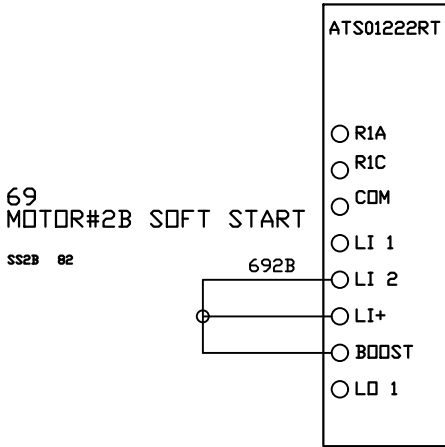
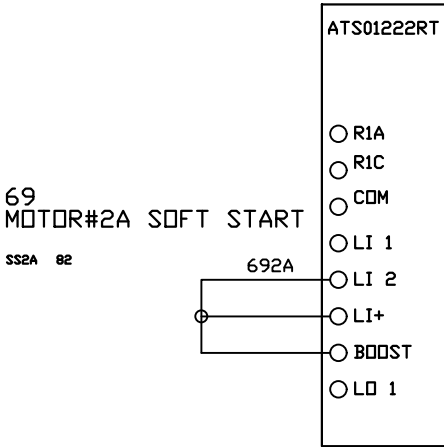
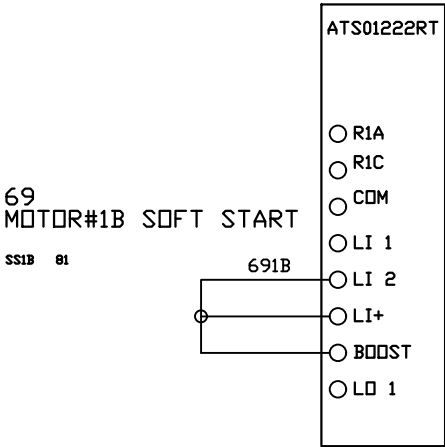
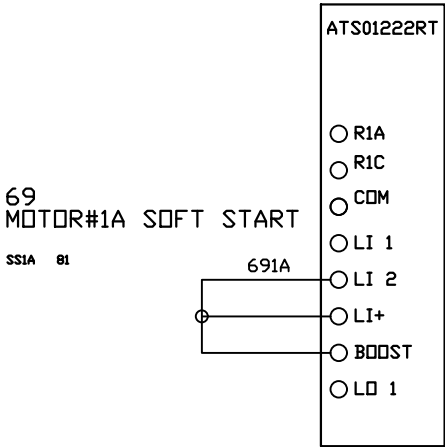
SHEET	SIZE
W-7	B

PXMI-SS216X

SET START TIME TO 3-SEC (B)

SET INITIAL VOLT SETTING TO 67% (D)

SET STOP TIME TO 6 SEC (C)



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/12/25	05/12/25	05/12/25

PANEL TYPE

DUPLEX MEDICAL COMP

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

DWG. TYPE WIRING

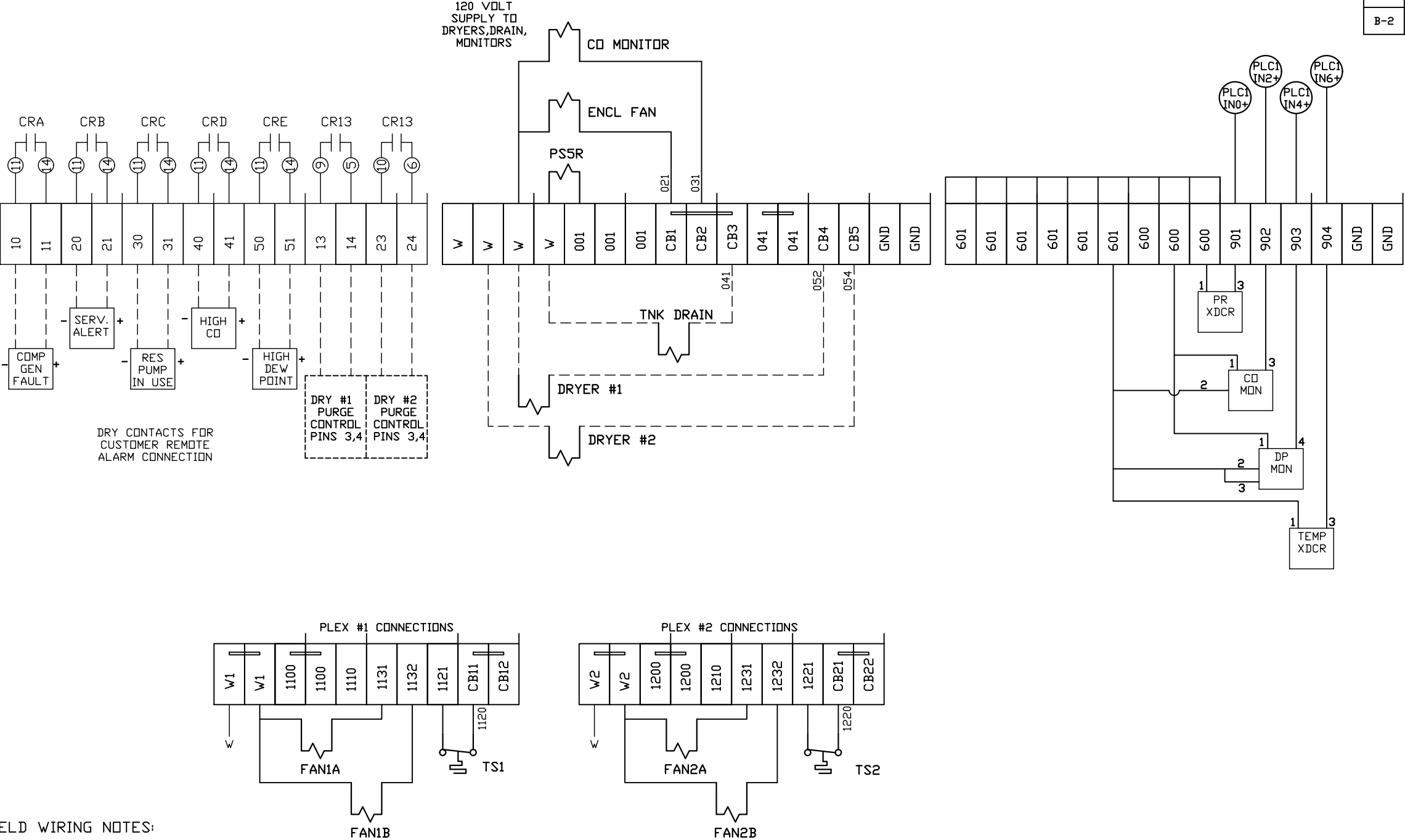
DWG. NO.

PXMI-SS216X

SHEET	SIZE
W-8	B

PXMI-SS216X

TERMINAL BLOCKS



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

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/12/25	05/12/25	05/12/25

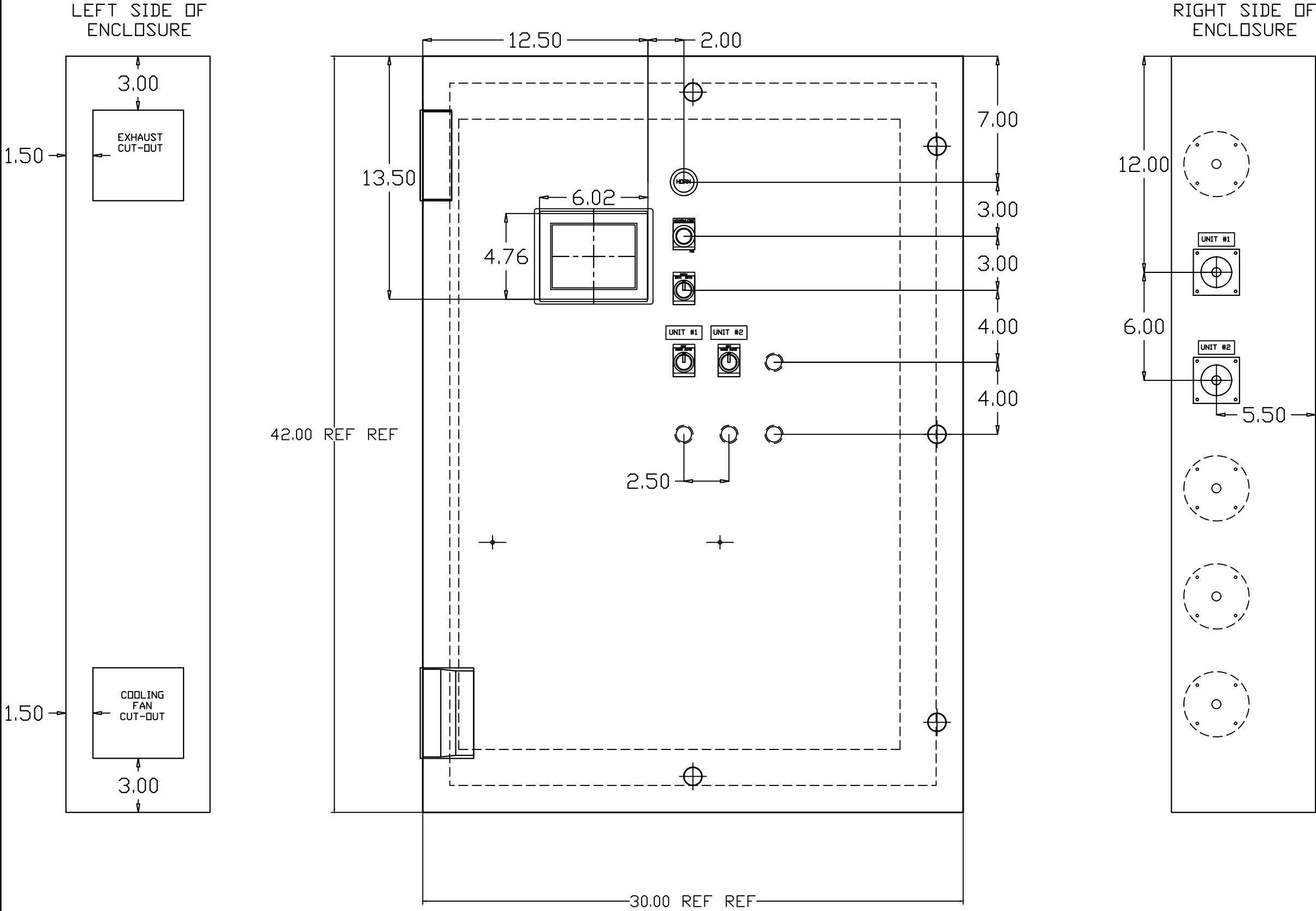
PANEL TYPE
DUPLX MEDICAL COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE
WIRING

DWG. NO.
PXMI-SS216X

SHEET	SIZE
W-9	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/12/25	05/12/25	05/12/25

PANEL TYPE

DUPLEX MEDICAL COMP

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

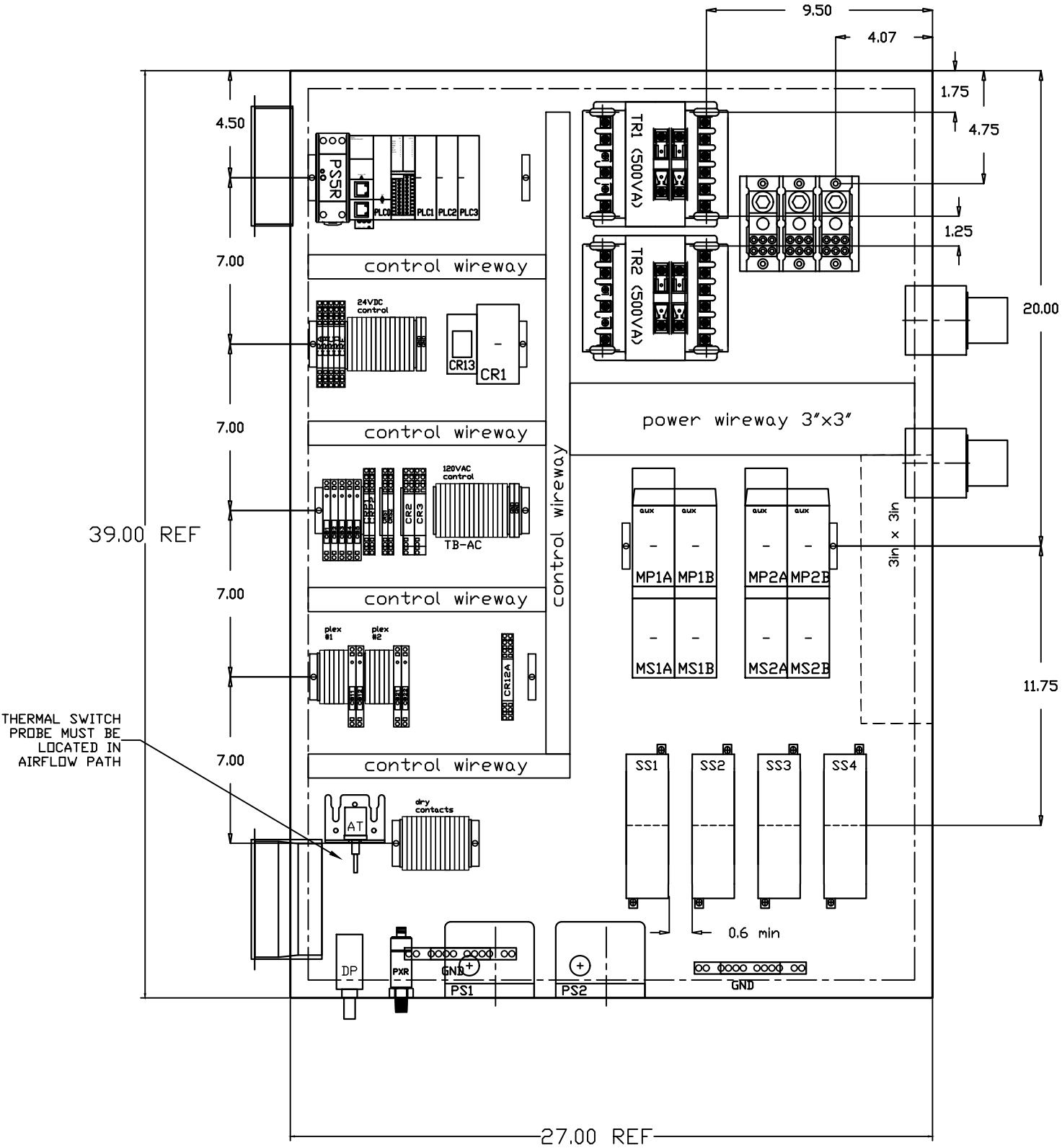
DWG. TYPE LAYOUT

DWG. NO. PXMI-SS216X

SHEET	SIZE
LA-1	B

PXMI-SS216X

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/12/25	05/12/25	05/12/25

PANEL TYPE

DUPLEX MEDICAL COMP

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

DWG. TYPE LAYOUT

DWG. NO.

PXMI-SS216X

SHEET	SIZE
LA-2	B

PXMI-SS216X

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/12/25	PXEC0667	BTS	SEK
B-2	REMOVED UNUSED COMPONENTS FROM LAYOUT	10/23/25	PXEC0639	JRD	WMM

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
PBMISS216E2AJ	7.5(X2)	208V/3Ø	21.1	86.6	150A	125A	125A
PBMISS216E3AJ	7.5(X2)	230V/3Ø	17.9	73.8	110A	90A	110A
PBMISS216E4AJ	7.5(X2)	460V/3Ø	8.97	37.9	60A	45A	60A
PBMISS216G2AJ	10(X2)	208V/3Ø	26.5	108	175A	150A	150A
PBMISS216G3AJ	10(X2)	230V/3Ø	24.0	98	150A	125A	150A
PBMISS216G4AJ	10(X2)	460V/3Ø	12.4	50.7	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					WIRE TYPE TABLE			
REPLACEMENT	208	230	460	575	VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
FUSE TYPE	VOLT	VOLT	380 VOLT	VOLT				
FU1,2A FU1,2B	FNQR (CC)	6A	5A	5A	4A	120VAC 0VAC 24VDC 0VDC GND CUSTOMER SUPPLY	001-599,1100+ V 600-1099 601 - 01-99	16-18AWG RED/BLK 16-18AWG WHT/BLK 16-18AWG PURPLE 16-18AWG PURPLE VARIES GREEN 16-18AWG YELLOW
FU3A,B	FNM	7A	7A	7A	7A			
SEE XFRMR FOR CONNECTIONS								

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/12/25	05/12/25	05/12/25

PANEL TYPE

DUPLEX MEDICAL COMP

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

DWG. TYPE DATA

DWG. NO.

PXMI-SS216X

SHEET

D-1

SIZE

B

PXMI-SS216X