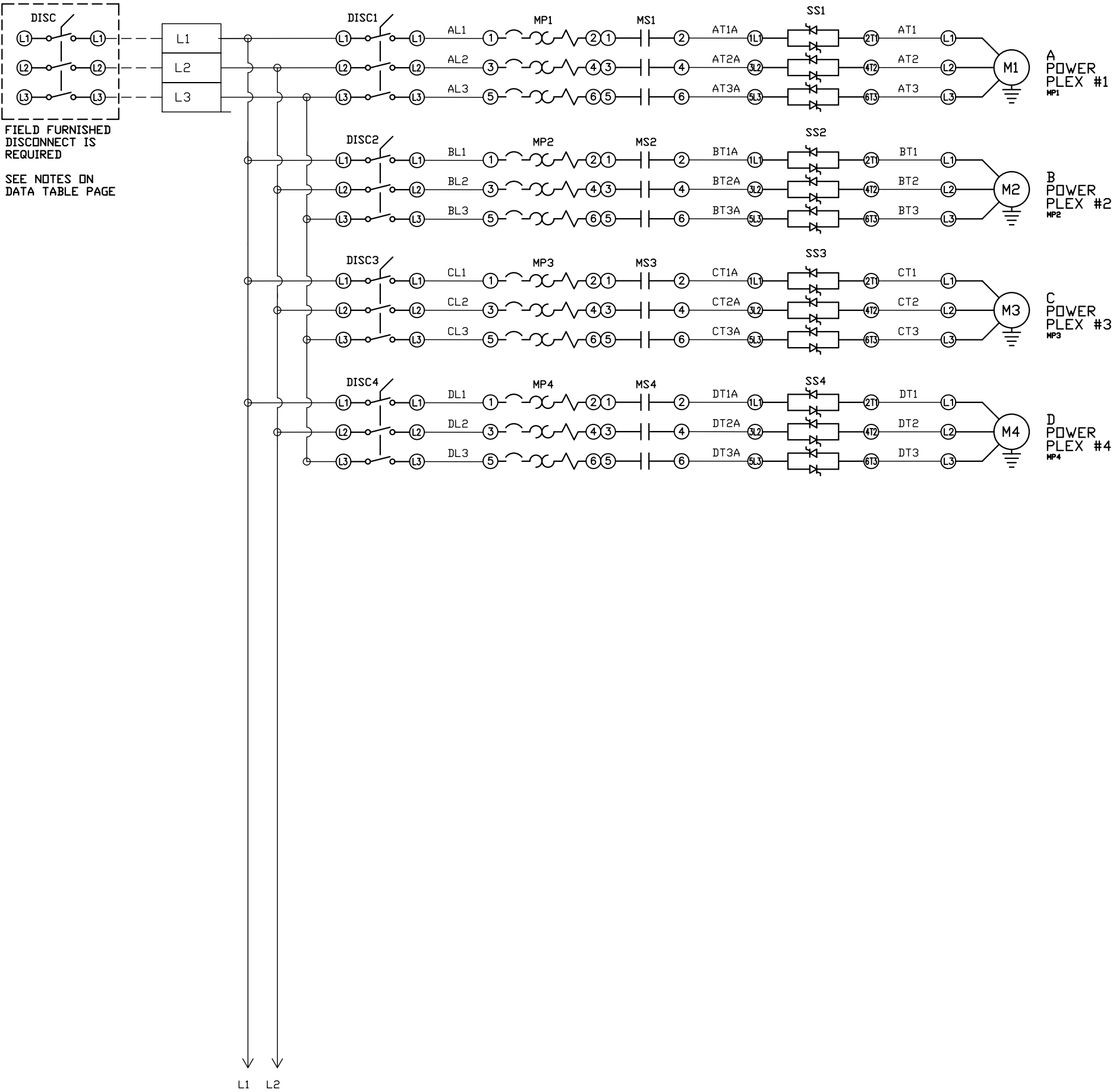




REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/20/25	03/20/25	03/20/25

PANEL TYPE

QUAD MEDICAL COMP

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

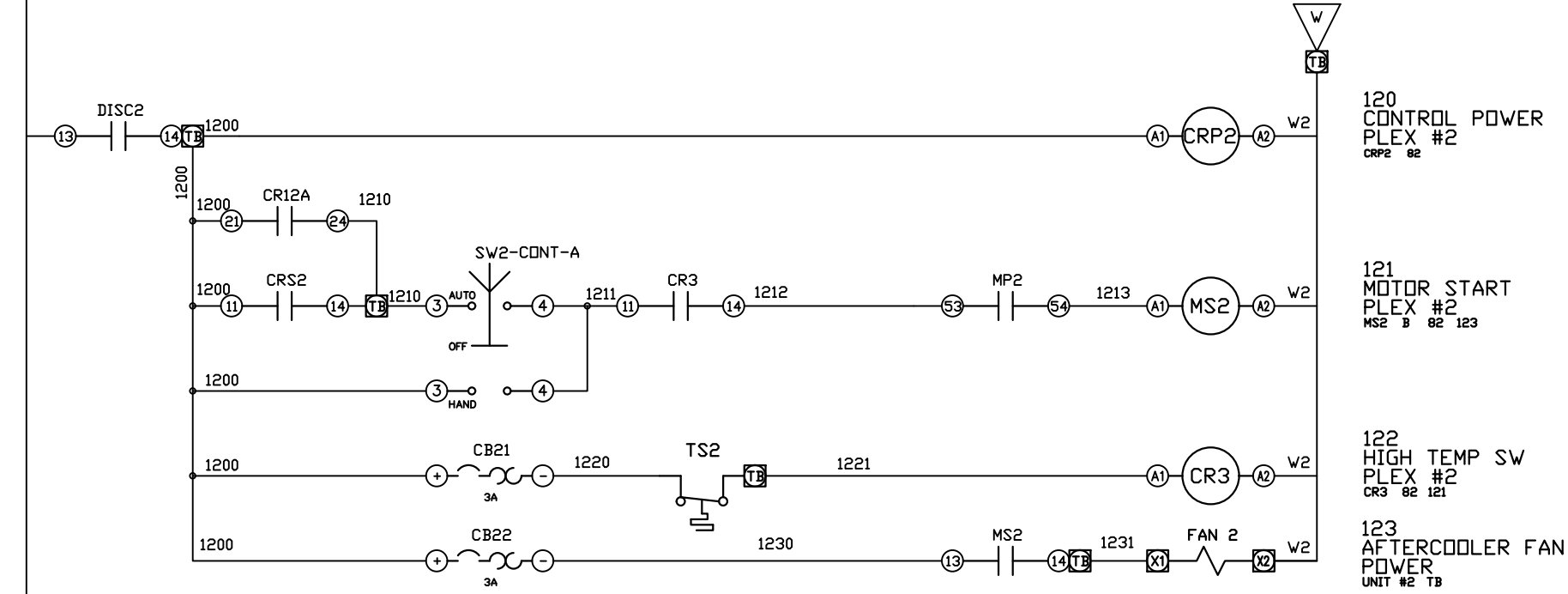
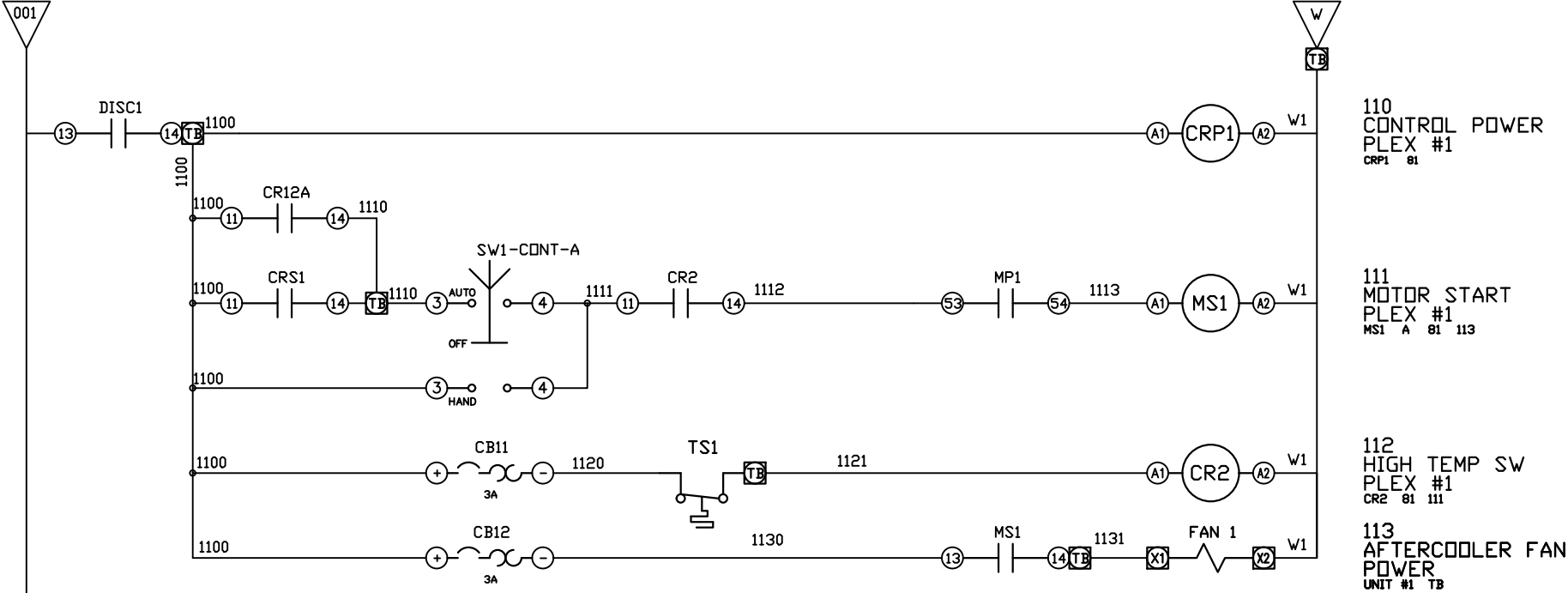
DWG. TYPE WIRING

DWG. NO.

PXMI-AS416

SHEET	SIZE
W-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/20/25	03/20/25	03/20/25

PANEL TYPE

QUAD MEDICAL COMP

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

DWG. TYPE WIRING

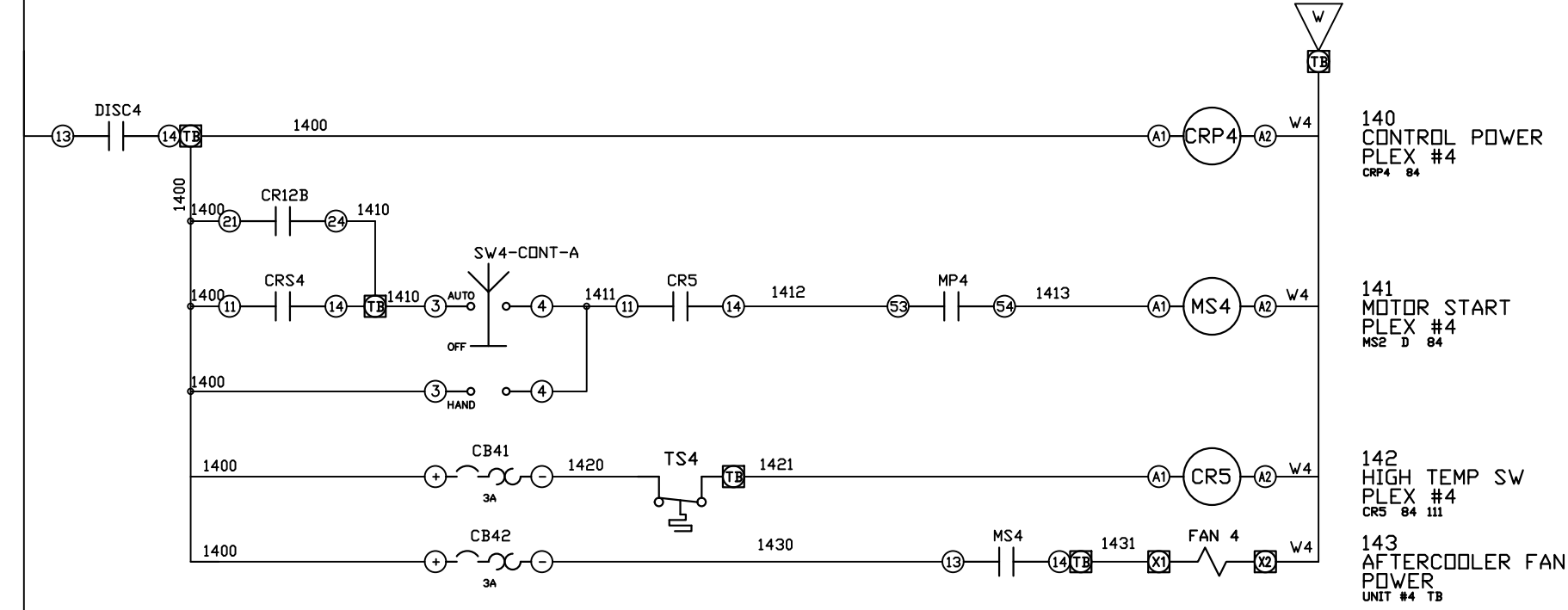
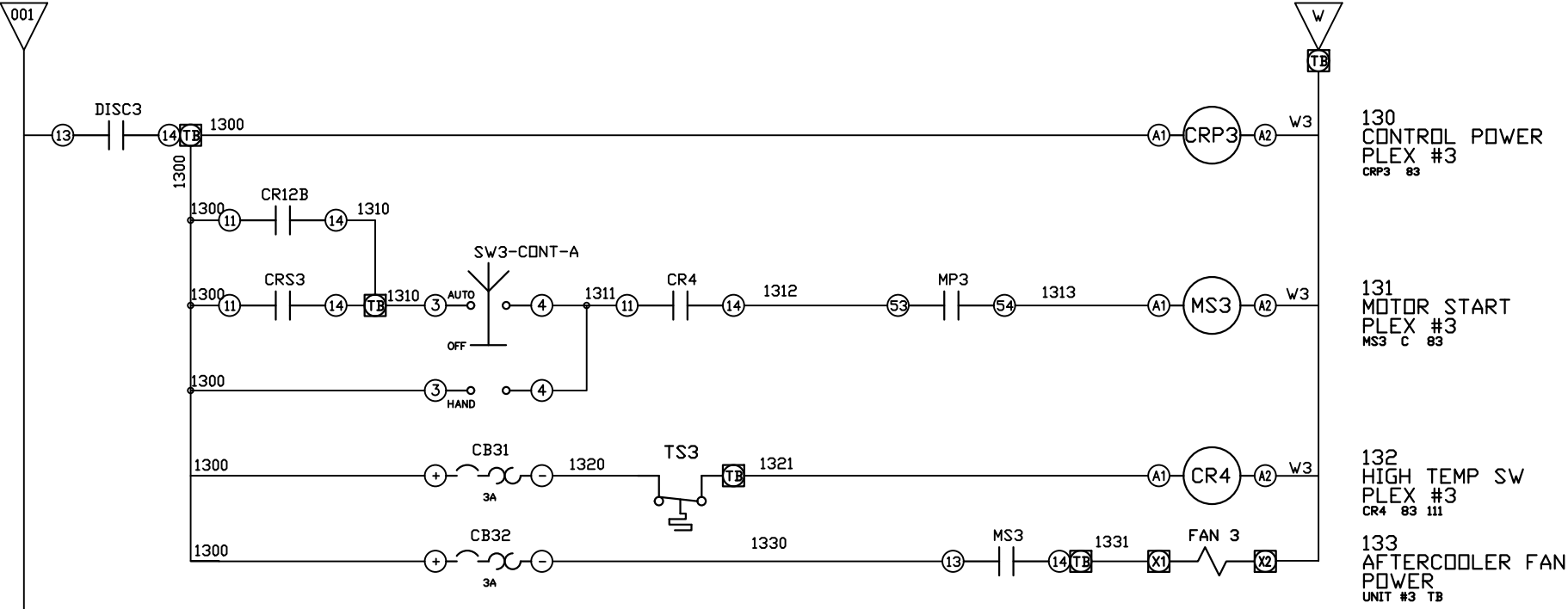
DWG. NO.

PXMI-AS416

SHEET	SIZE
W-3	B

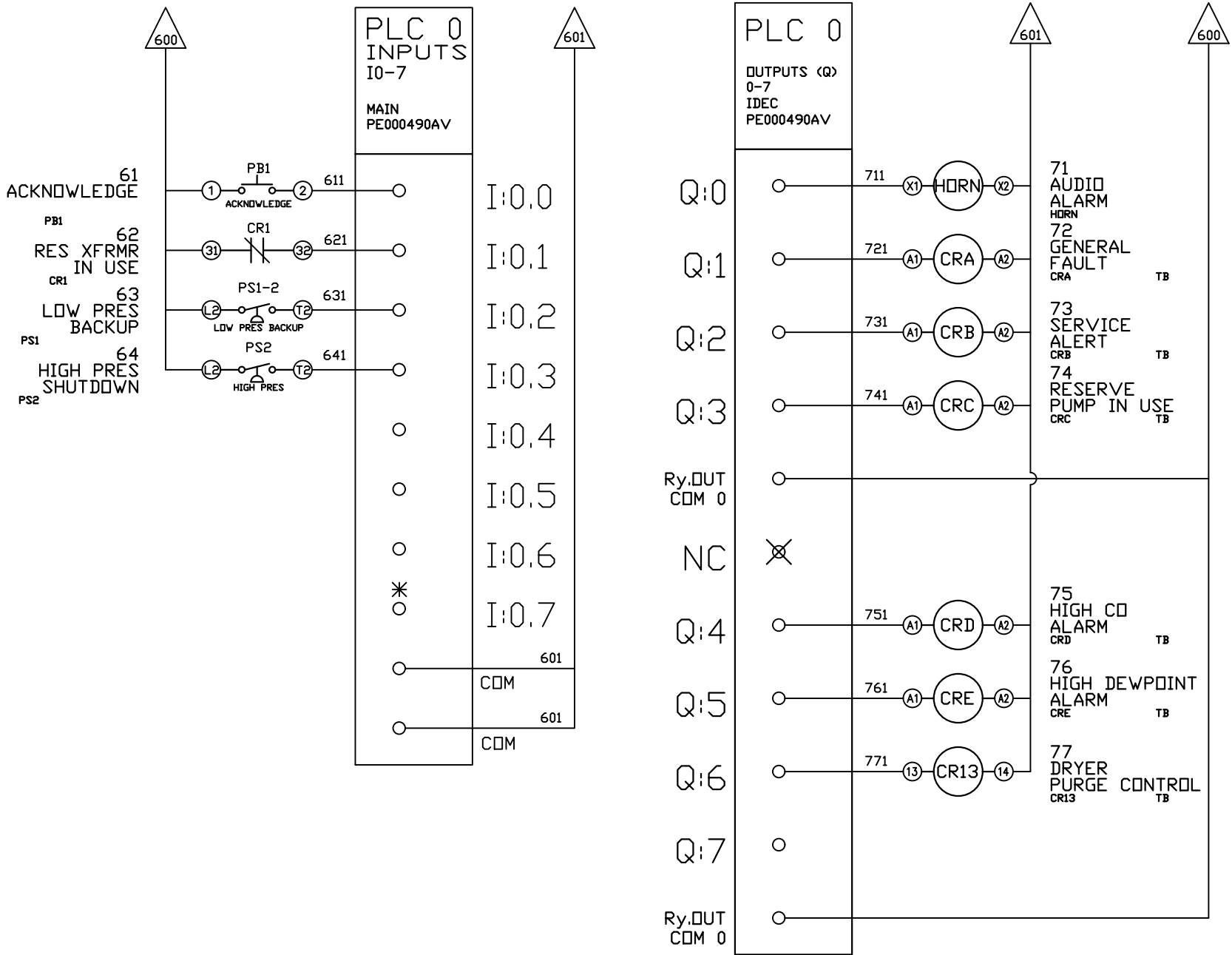
PXMI-AS416 B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/20/25	03/20/25	03/20/25
PANEL TYPE		
QUAD MEDICAL COMP		
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO		
DWG. TYPE WIRING		
DWG. NO. PXMI-AS416		
SHEET		SIZE
W-4		B
PXMI-AS416 B1		

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD



*FACTORY TEST JUMPER LOCATION

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/20/25	03/20/25	03/20/25

PANEL TYPE

QUAD MEDICAL COMP

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

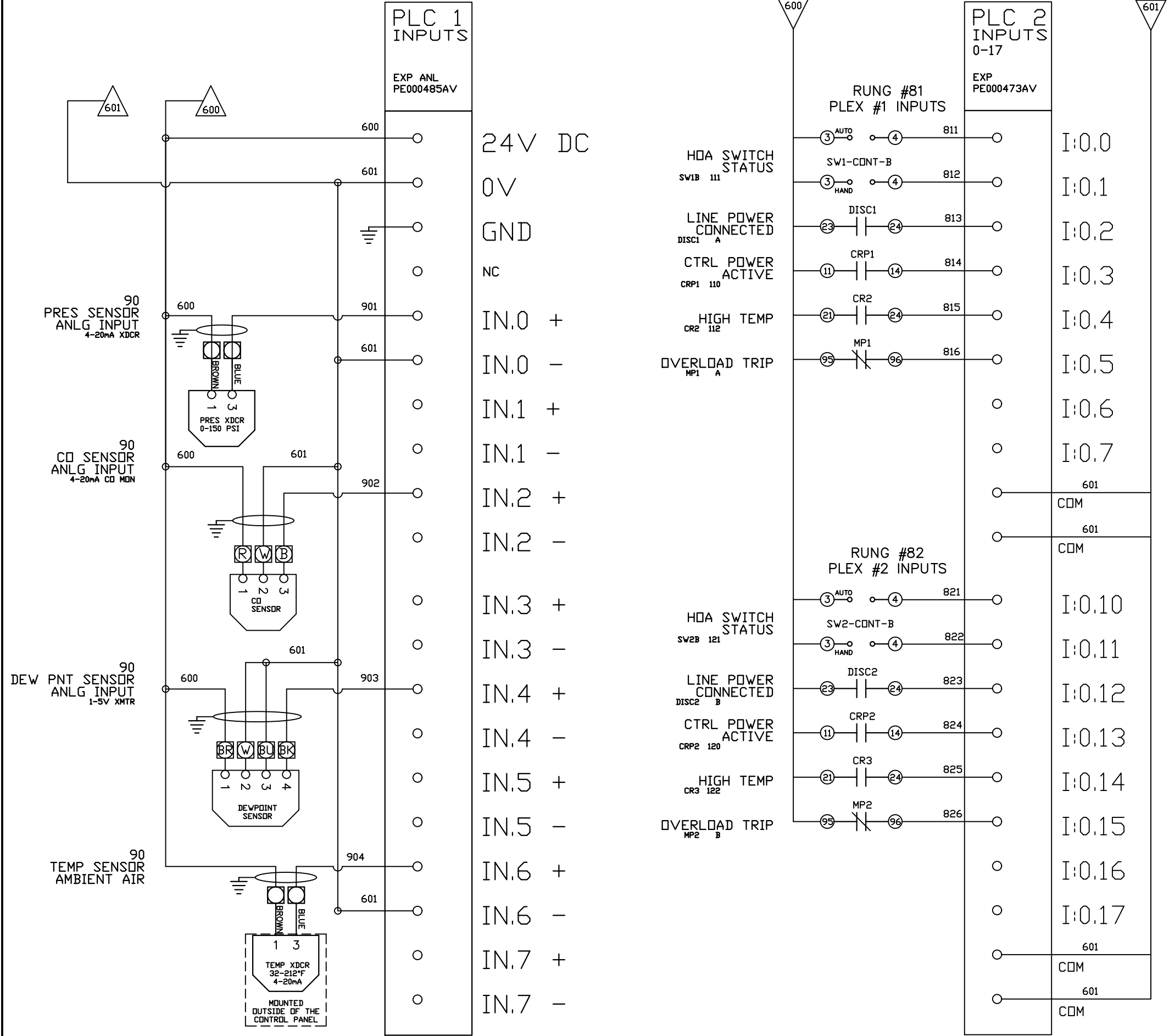
DWG. TYPE WIRING

DWG. NO. PXMI-AS416

SHEET	SIZE
W-6	B

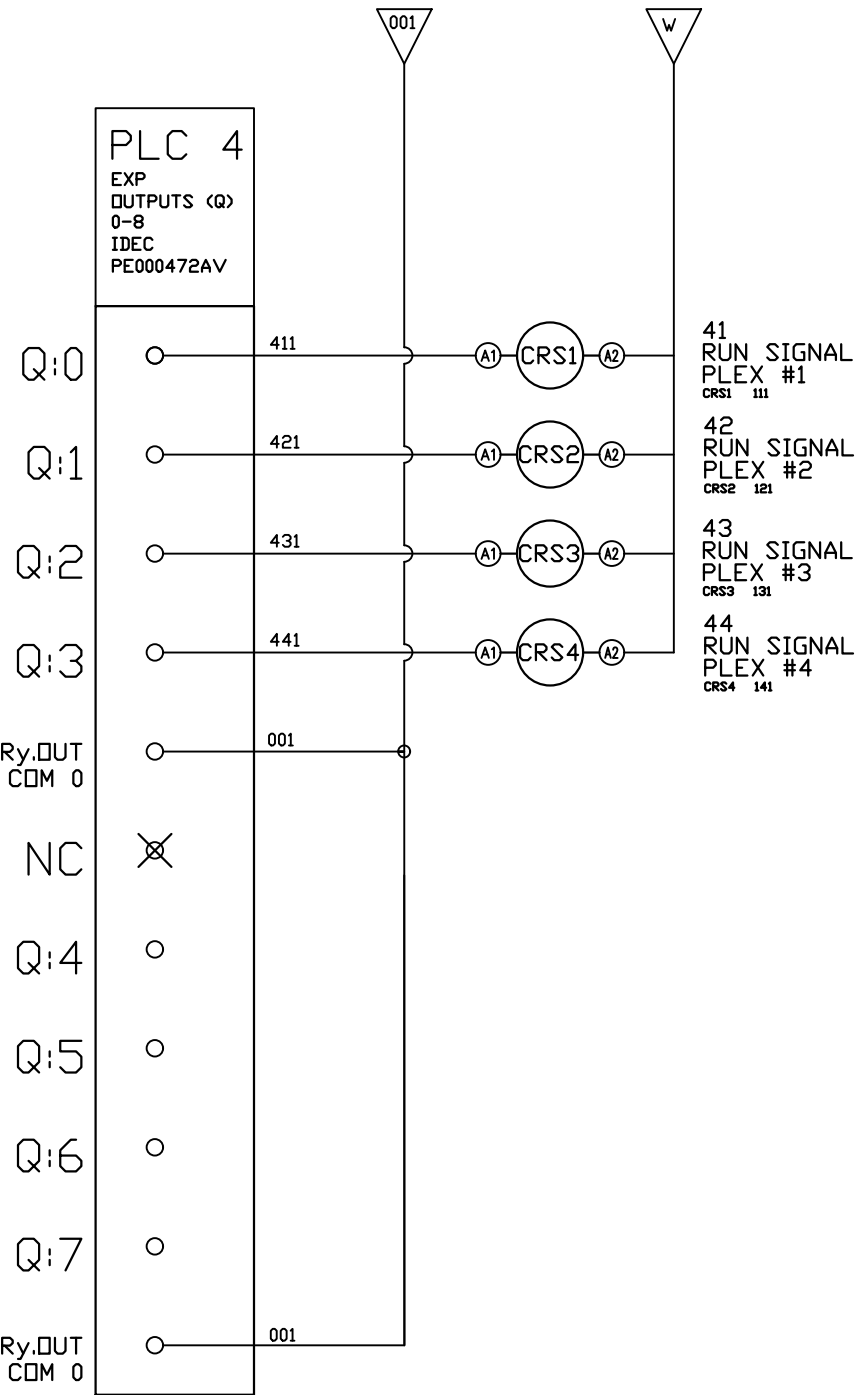
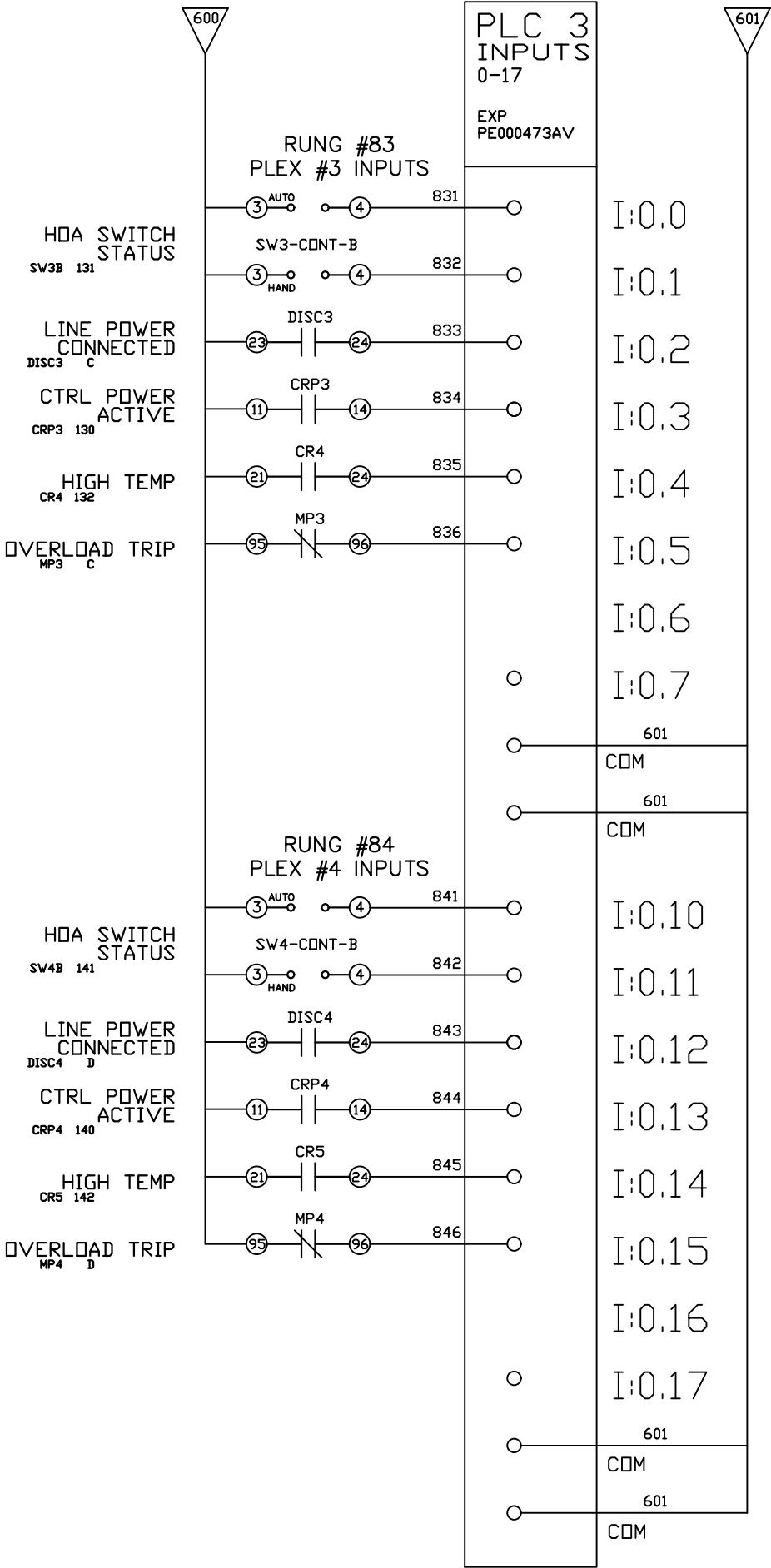
PXMI-AS416 B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/20/25	03/20/25	03/20/25
PANEL TYPE		
QUAD MEDICAL COMP		
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO		
DWG. TYPE WIRING		
DWG. NO. PXMI-AS416		
SHEET		SIZE
W-7		B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/20/25	03/20/25	03/20/25

PANEL TYPE

QUAD MEDICAL COMP

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

DWG. TYPE WIRING

DWG. NO.

PXMI-AS416

SHEET

W-8

SIZE

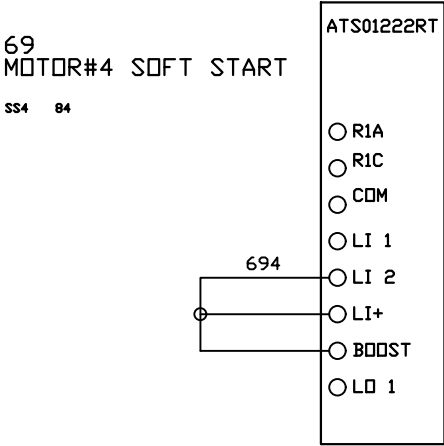
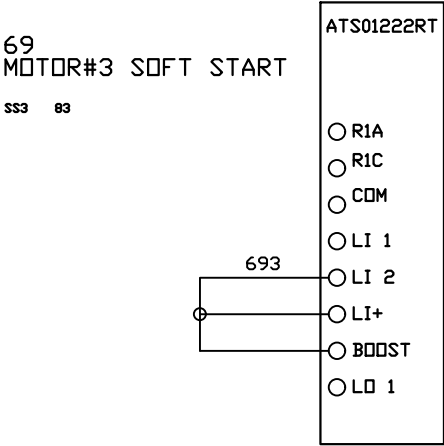
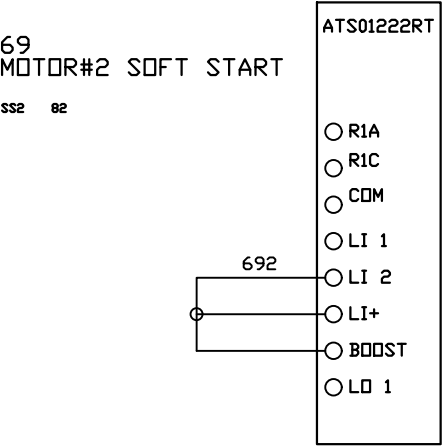
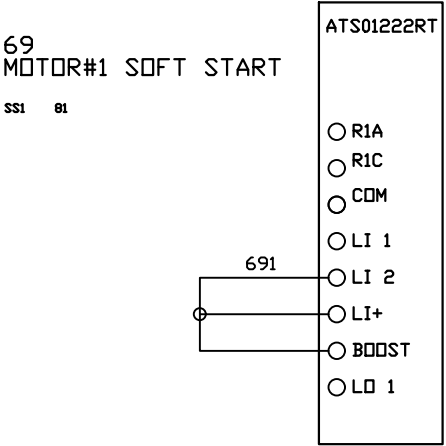
B

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	03/20/25	PXEC0667	SEK	JRD



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/20/25	03/20/25	03/20/25

PANEL TYPE

QUAD MEDICAL COMP

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

DWG. TYPE WIRING

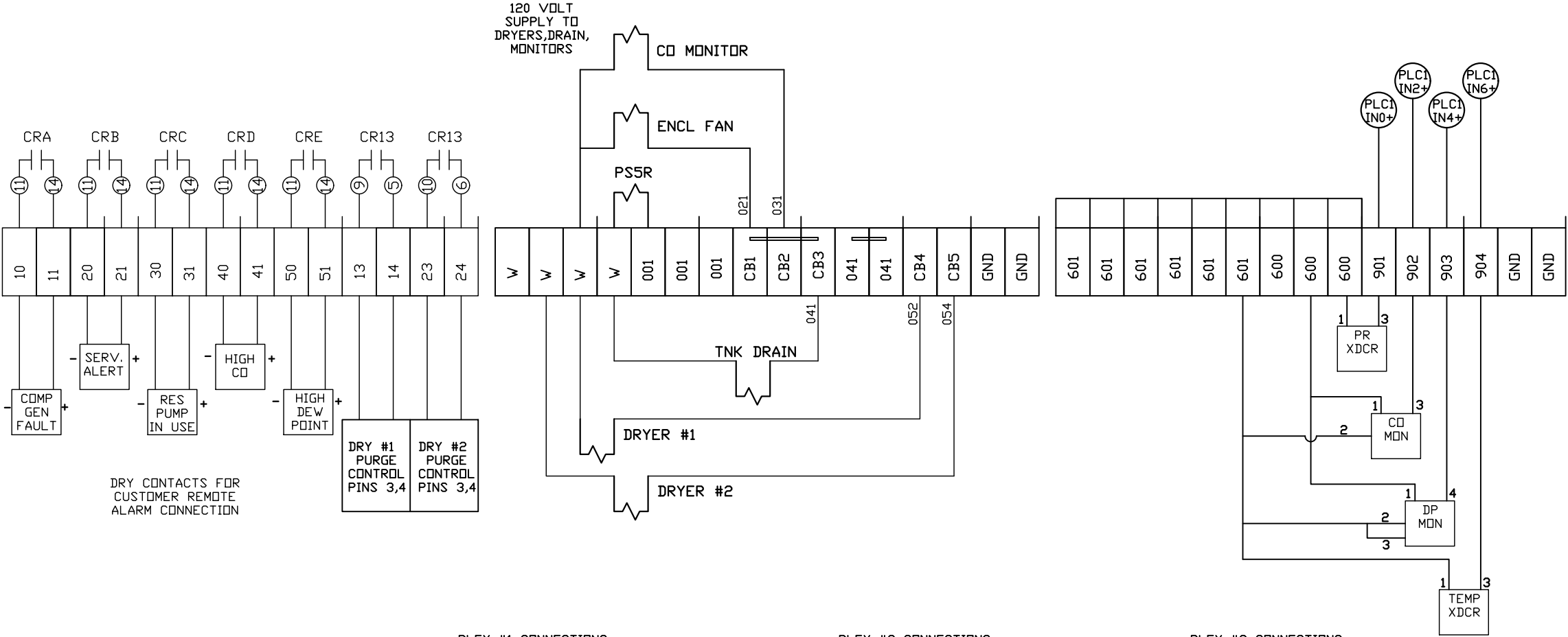
DWG. NO.

PXMI-AS416

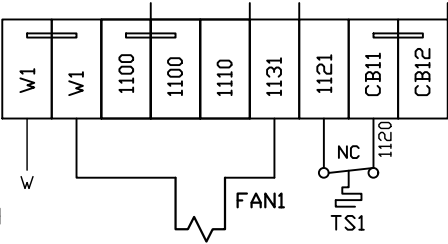
SHEET	SIZE
W-9	B

TERMINAL BLOCKS

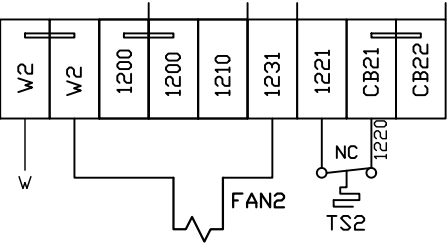
REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD



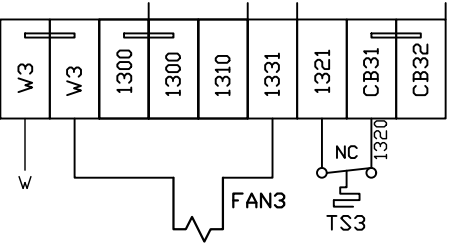
PLEX #1 CONNECTIONS



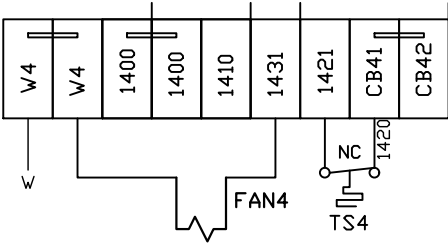
PLEX #2 CONNECTIONS



PLEX #3 CONNECTIONS



PLEX #4 CONNECTIONS



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
SEK	JRD	JRD
03/20/25	03/20/25	03/20/25

PANEL TYPE

QUAD MEDICAL COMP

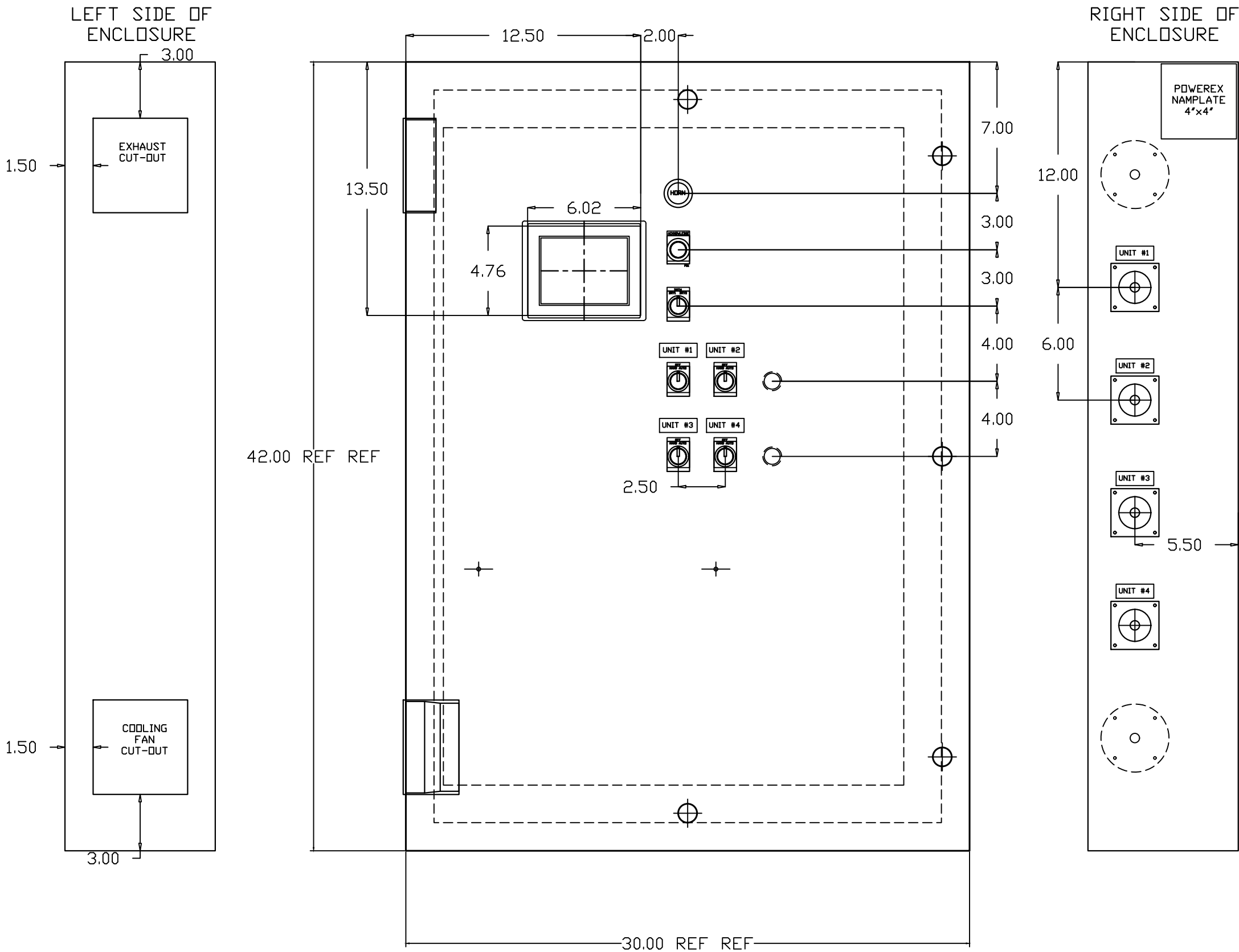
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE WIRING

DWG. NO. PXMI-AS416

SHEET	SIZE
W-10	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/20/25	03/20/25	03/20/25

PANEL TYPE

QUAD MEDICAL COMP

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

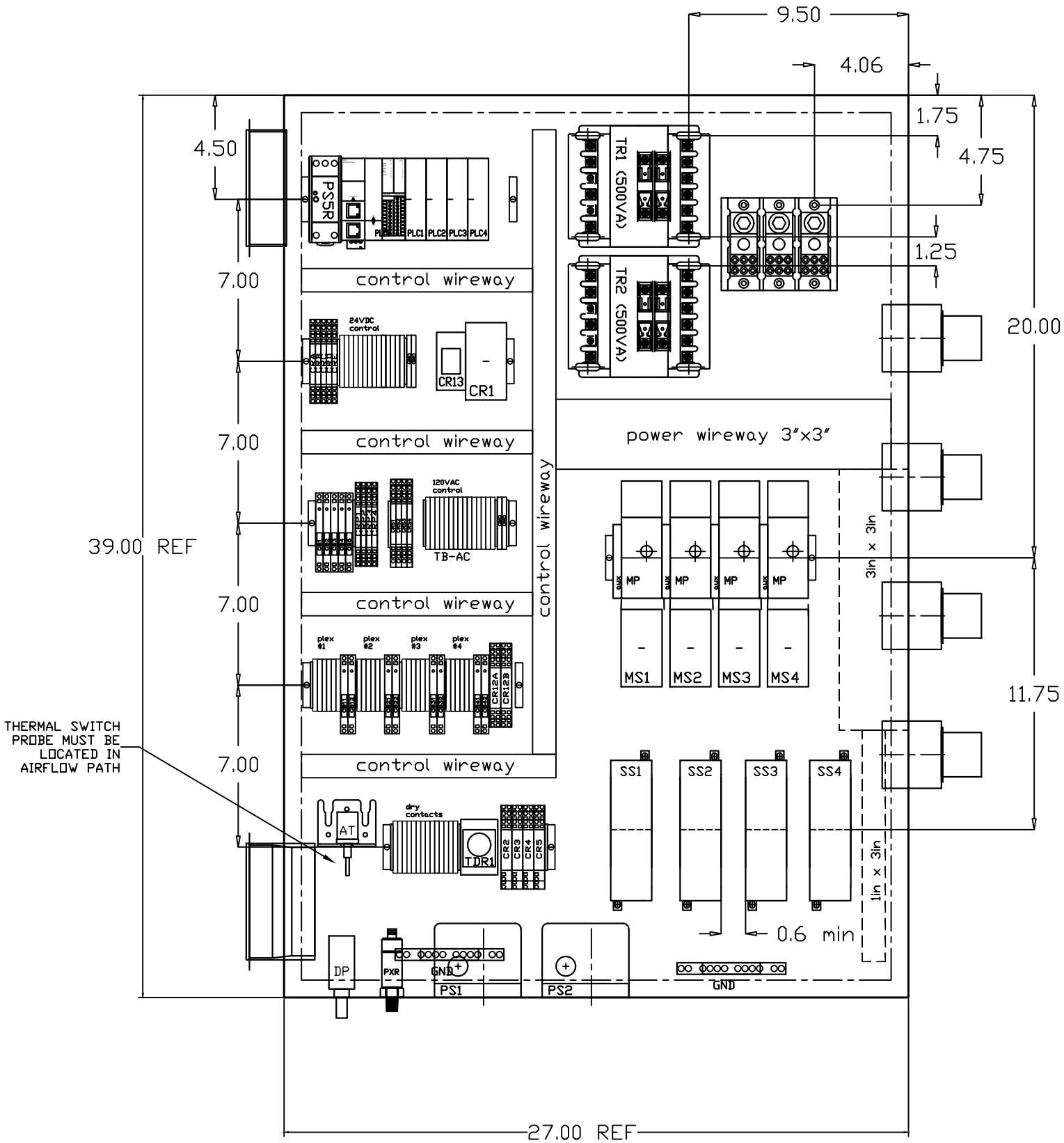
DWG. TYPE LAYOUT

DWG. NO. PXMI-AS416

SHEET	SIZE
LA-1	B

PXMI-AS416 B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/20/25	03/20/25	03/20/25

PANEL TYPE

QUAD MEDICAL COMP

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

DWG. TYPE LAYOUT

DWG. NO. PXMI-AS416

SHEET	SIZE
LA-2	B

PXMI-AS416 B1

TABLE 1	P/N	MOTOR FULL LOAD AMPS	TOTAL FULL LOAD AMPS	NON-TIME DELAY FUSE	TIME DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER	REV	REVISION	DATE	ECN	NAME	CHKD
							B-1	RELEASE TO PRODUCTION	01/14/15	PXEC0057	KMD	DMS
208V (3Ø)	72AJ	21.1	86.4	150	110	125						
	A2AJ	26.5	108	175	150	150						
230V (3Ø)	73AJ	17.9	73.6	110	90	110						
	A3AJ	24	98	150	125	150						
460V (3Ø)	74AJ	8.97	37.88	60	45	60						
	A4AJ	12	50	80	60	70						
380V (3Ø) 50HZ	78AJ	10.7	44.8	70	60	70						
	A8AJ	14.5	60	90	80	90						

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 CLASS J 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.

CONTROL TRANSFORMERS - 500VA

REPLACEMENT	208	230	460	575
FUSE TYPE	VOLT	VOLT	380 VOLT	VOLT
FU1,2A FU1,2B	FNQR (CC)	6A	5A	5A 4A
FU3A,B	FNM	7A	7A	7A 7A

SEE XFMR FOR CONNECTIONS

WIRE TYPE TABLE

VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC 0VAC 24VDC 0VDC GND CUSTOMER SUPPLY	001-599,1100+ W 600-1099 601 - 01-99	16-18AWG 16-18AWG 16-18AWG 16-18AWG VARIES 16-18AWG	RED/BLK WHT/BLK PURPLE PURPLE GREEN 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.

OPTIONAL:

208V/230V/460V/380V

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	DMS	DMS
01/14/15	01/14/15	01/14/15

PANEL TYPE

7. 5/10 SCROLL DATA
QUADPLEX PANEL DATA

DWG. TYPE MISC

DWG. NO.

DATA TABLE

SHEET	SIZE
D-1	B

SCROLL 7-10 QUADPLEX