

 REV
 REVISION
 DATE
 ECN
 NAME
 CHKD

 B-1
 RELEASE TO PRODUCTION
 03/20/25 PXEC0667
 SEK
 JRD

OPTIONAL:

P WEREX

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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

wg. type WIRING

DWG. N□.

PXMI-AS416

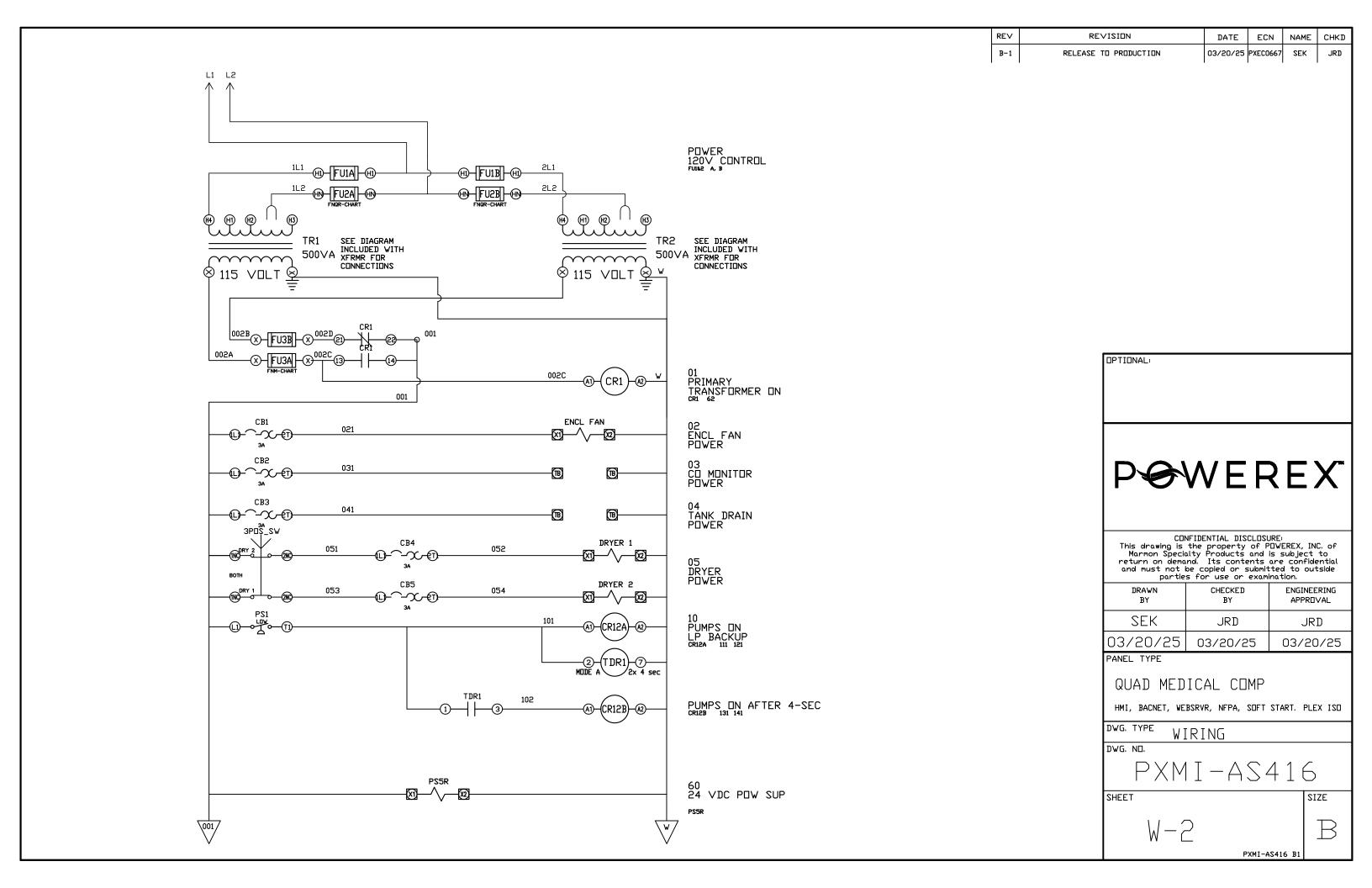
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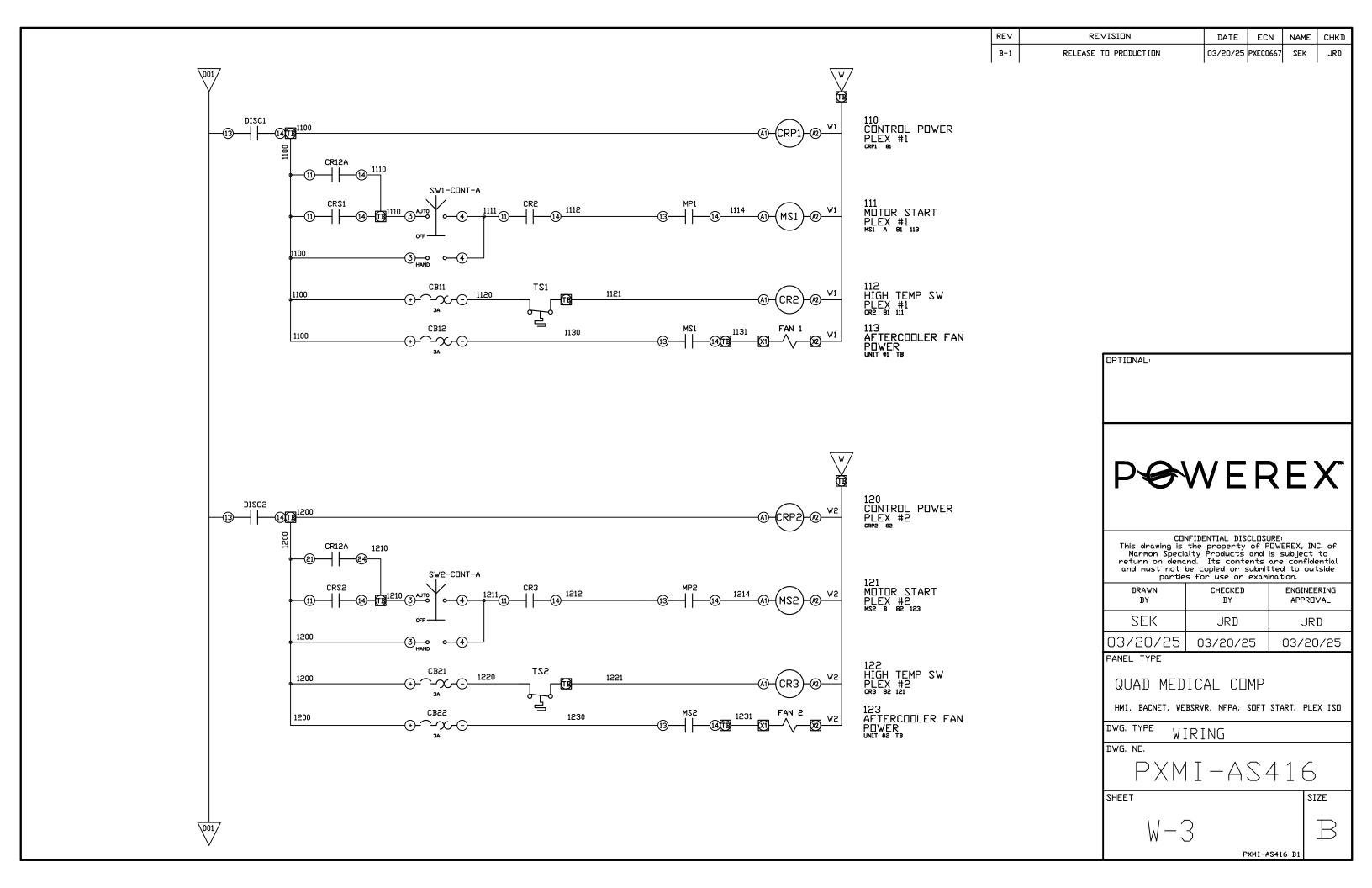
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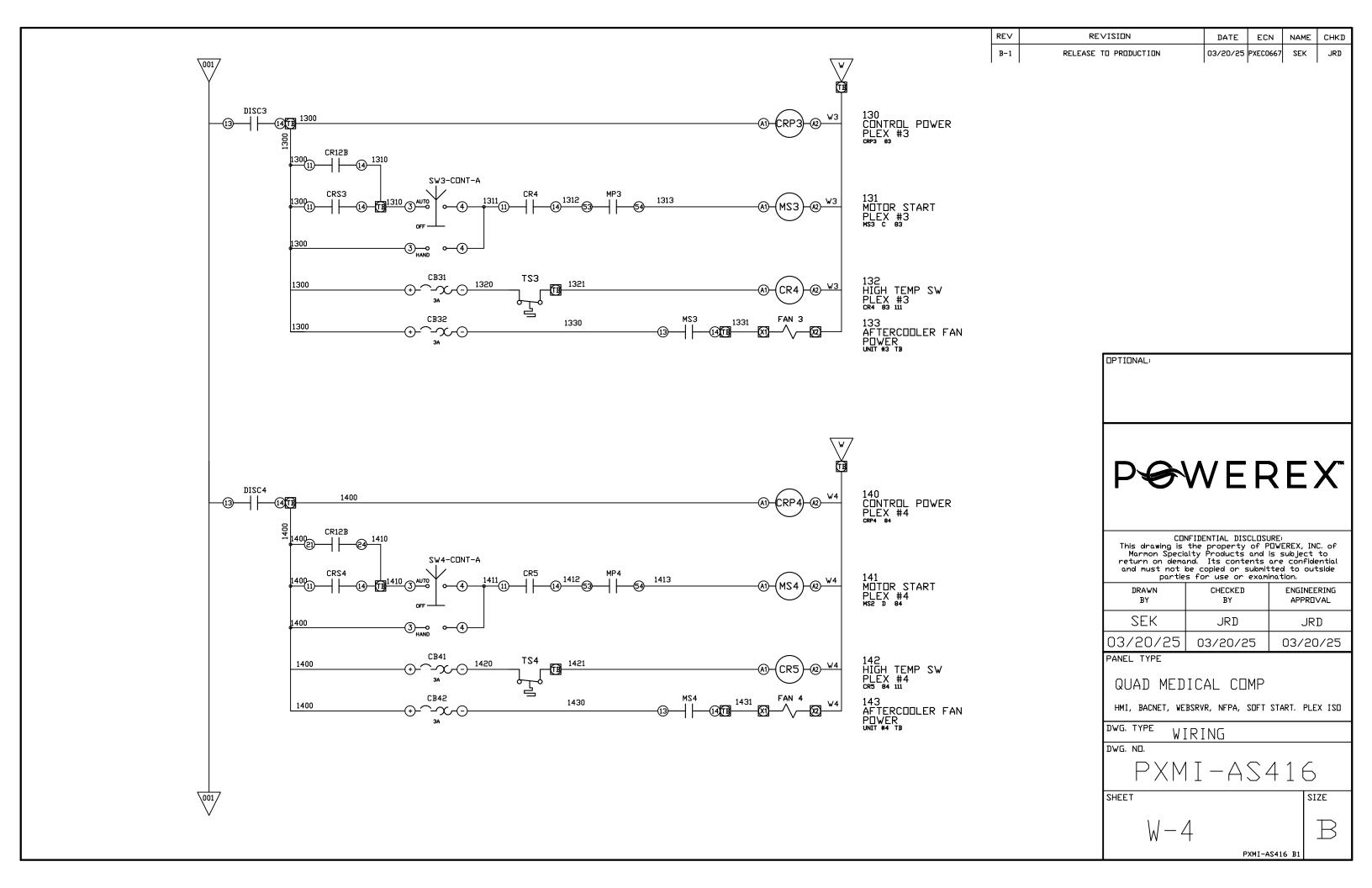
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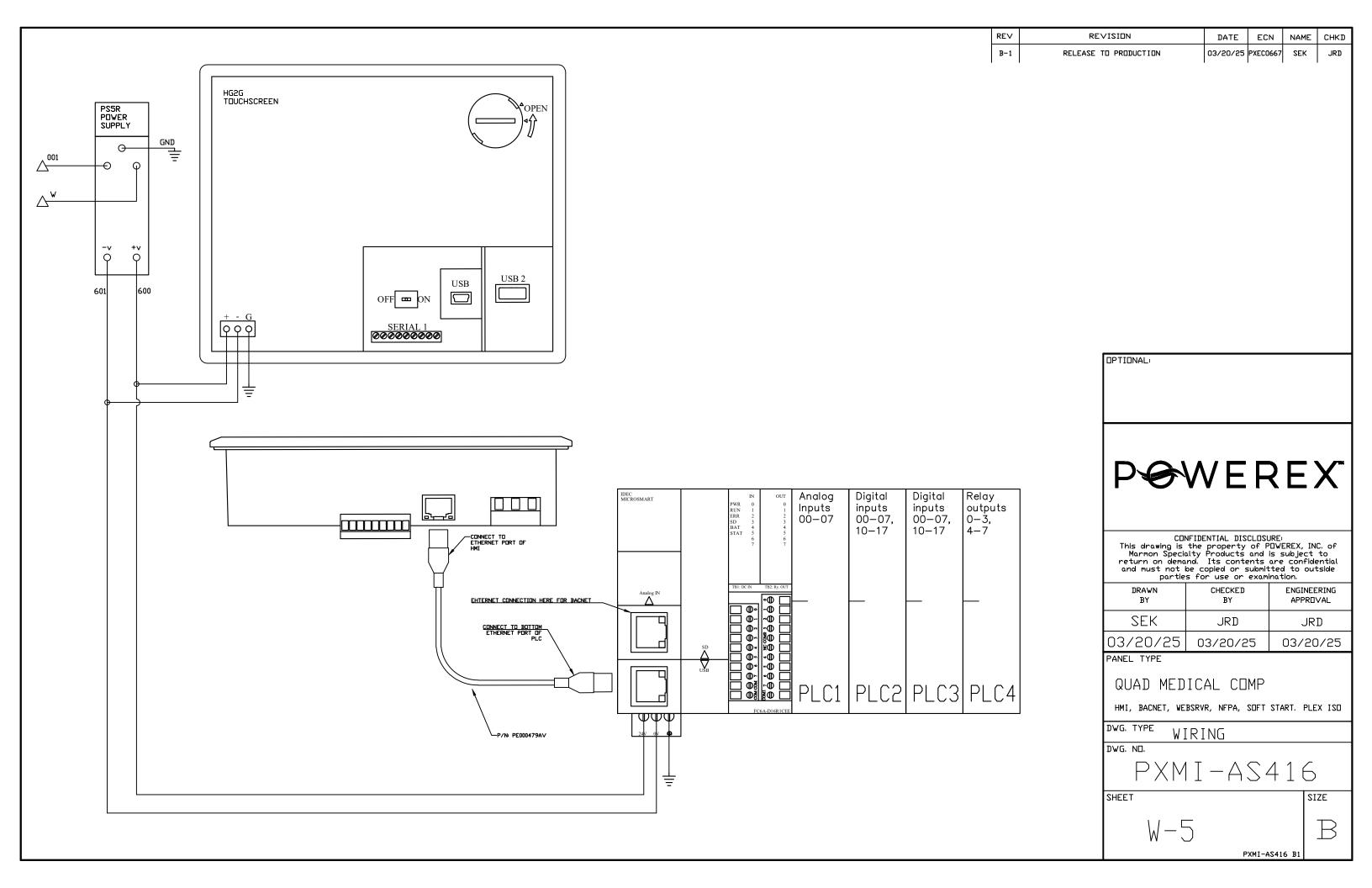
AS416 B1

PXMI-AS416 B1

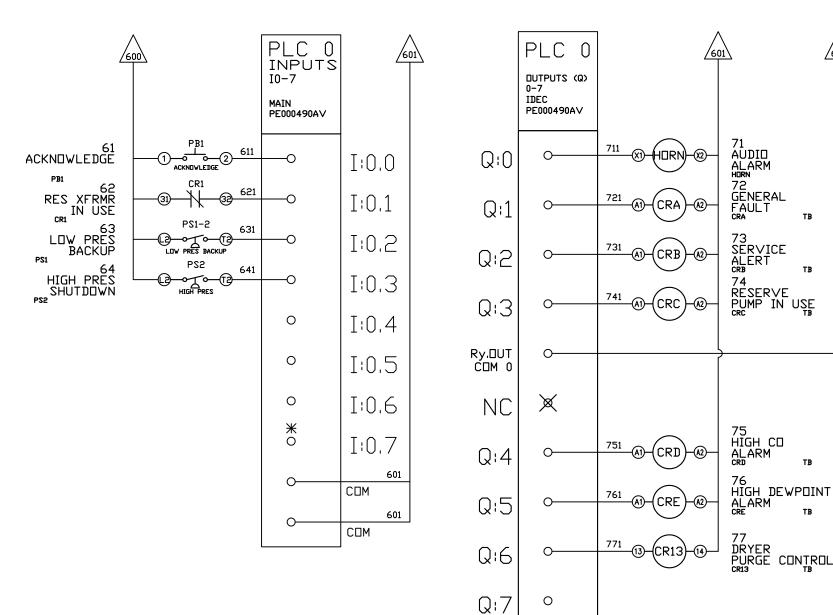








RE∨	REVISI□N	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD



Ry.OUT COM 0 600

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03/20/25	03/20/25	03/20/25		

PANEL TYPE

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DWG. TYPE WIRING

DWG. NE

PXMI-AS416

SHEET

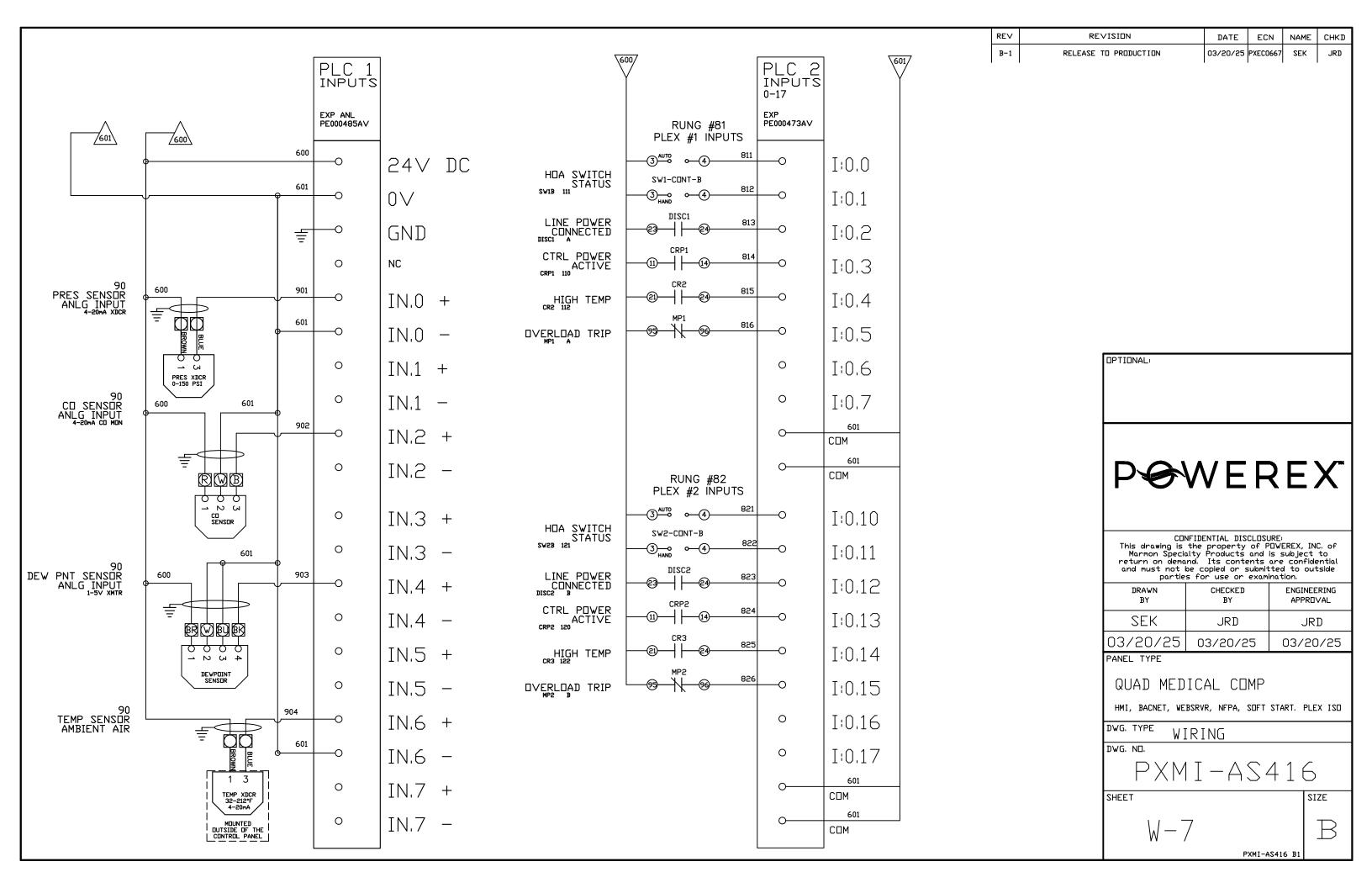
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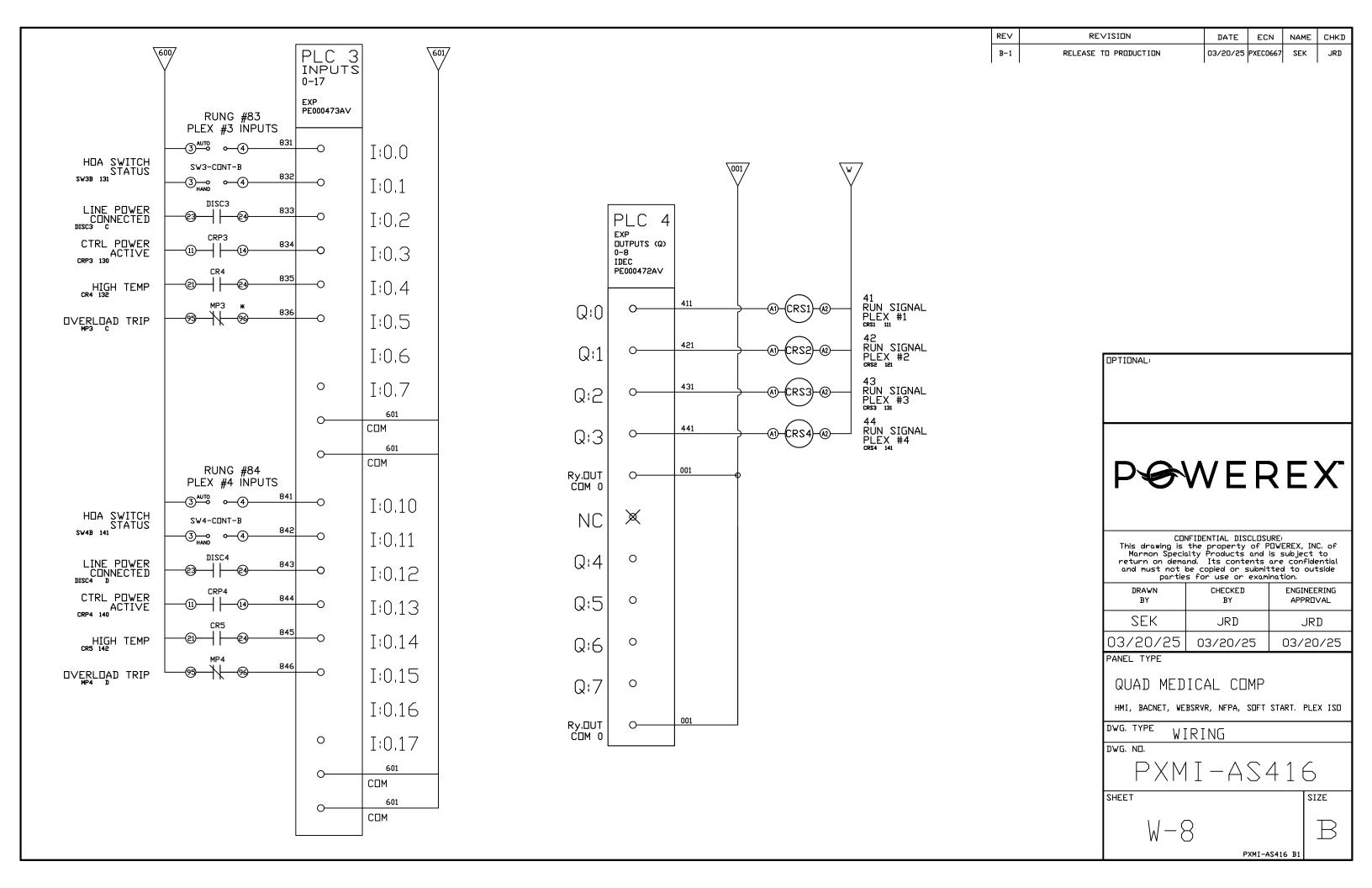
W-6

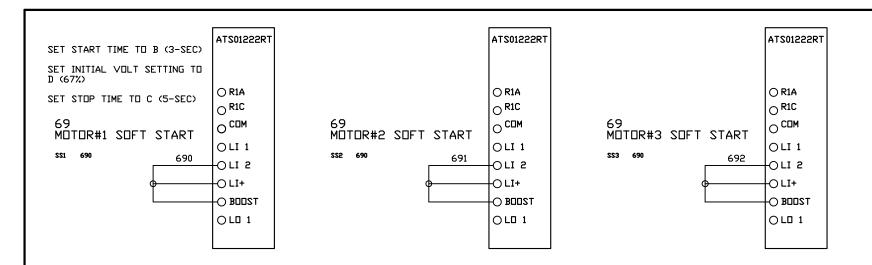
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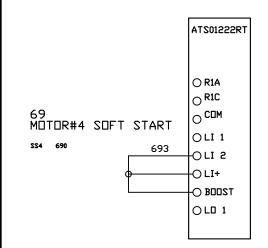
PXMI-AS416 B1

*FACTORY TEST JUMPER LOCATION









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

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PANEL TYPE

QUAD MEDICAL COMP

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WIRING

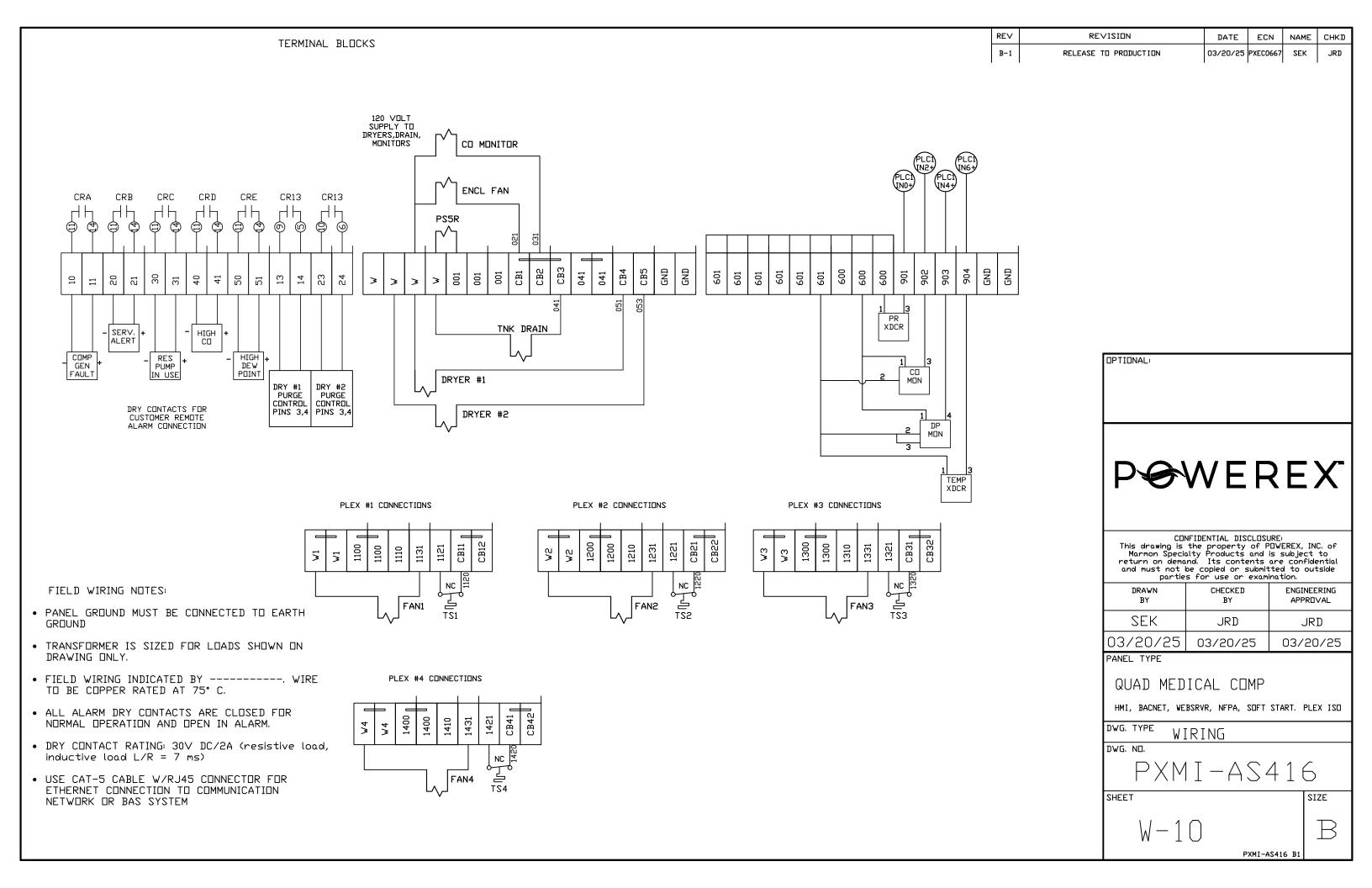
PXMI-AS416

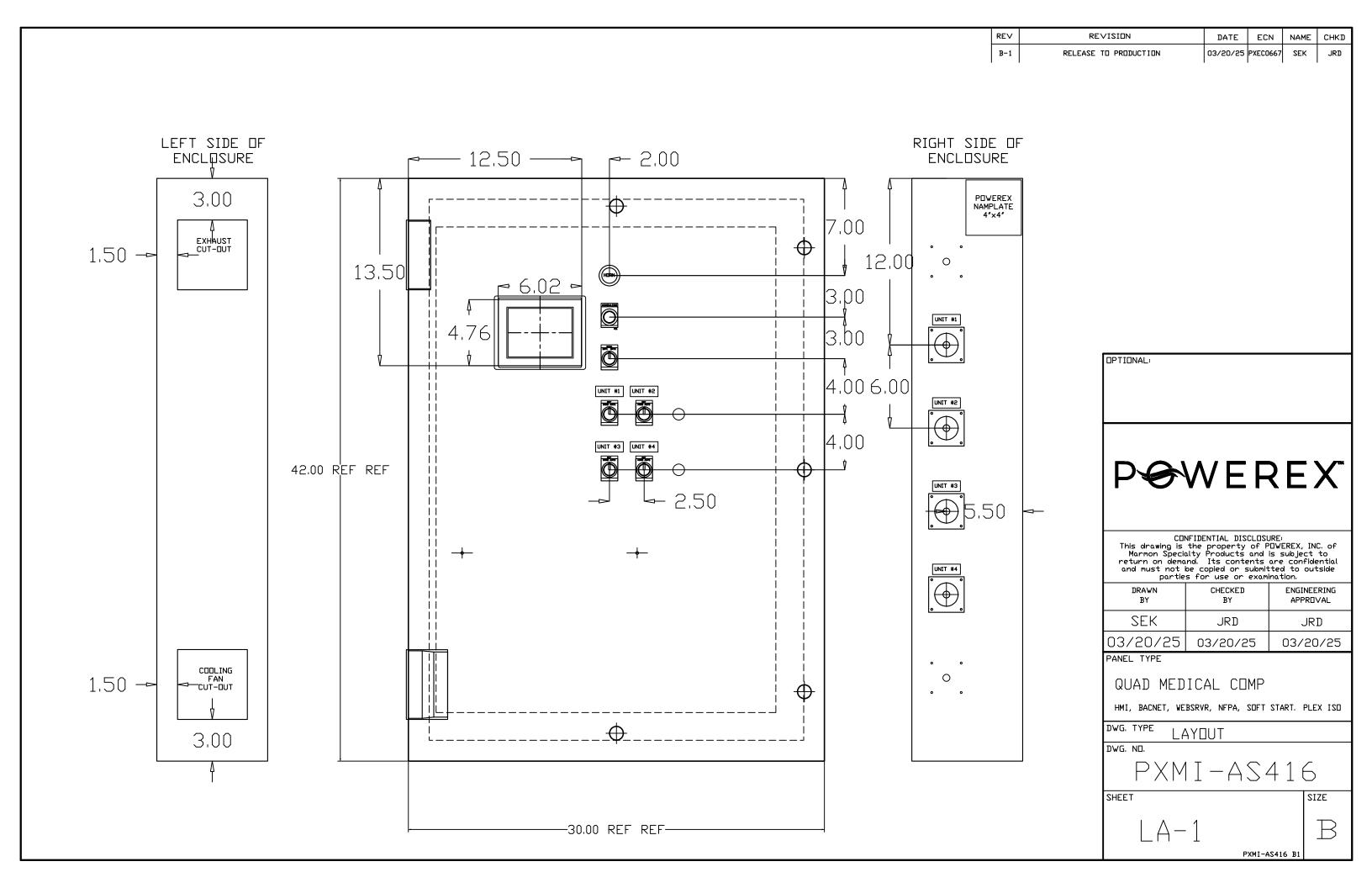
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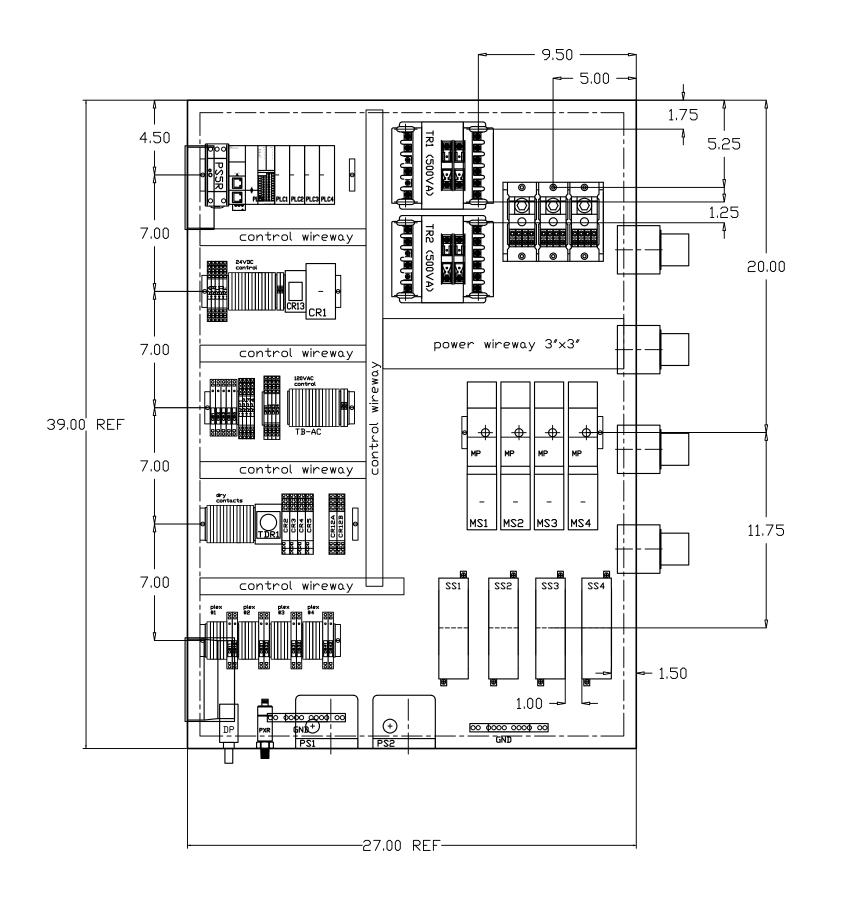
W-9

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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} laydut

DWG. NO

PXMI-AS416

SHEET

SIZE

LA-5

PXMI-AS416 B1

TABLE 1	TABLE 1 P/N		TOTAL FULL LOAD AMPS	NON-TIME DELAY FUSE	TIME DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
72AJ		21.1	86.4	150	110	125
208V (3Ø)	A2AJ	26.5	108	175	150	150
2201/(201	73AJ	17.9	73.6	110	90	110
230V (3Ø)	A3AJ	24	98	150	125	150
460) (26)	74AJ	8.97	37.88	60	45	60
460V (3Ø)	A4AJ	12	50	80	60	70
2907 (24) 5017	78AJ	10.7	44.8	70	60	70
380V (3Ø) 50HZ	A8AJ	14.5	60	90	80	90

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B-1	RELEASE TO PRODUCTION	01/14/15	PXEC0057	KMD	DMS

NOTES:

- 1. RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS: 208-575 VOLT POWER 35 POUND INCHES 120 VOLT POWER AND CONTROL 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
- -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 $\Box N$ position and return $H\Box A$ switch to AUTO. This will return PLEX to normal operation.

CONTROL TRANSFORMERS - 500VA								
REPLACI	EMENT	208	230	460 380	575	WIRE TY	PE TABLE	
FUSE	TYPE	VOLT	VOLT	VOLT	VOLT	V□LTAGE	WIRE NUMBERS	GAUGE
FU1,2A FU1,2B	FNQR (CC)	6A	5A	5A	4A	120VAC 0VAC 24VDC	001-599,1100+ W 600-1099	16-18A 16-18A 16-18A
FU3A,B	FNM	7A	7A	7A	7A	0∨DC GND	601	16-18AV
SEE XFRMR FOR CONNECTIONS						CUSTOMER SUPPLY	01-99	16-18A

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.

P W E R E X

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t	KMD	DMS	DMS		
•	01/14/15	01/14/15	01/14/15		

OPTIONAL:

GAUGE COLOR 16-18AWG RED/BLK

16-18AWG WHT/BLK 16-18AWG PURPLE

16-18AWG PURPLE

16-18AWG YELLOW

VARIES

GREEN

208V/230V/460V/380V

7.5/10 SCROLL DATA QUADPLEX PANEL DATA

MISC

DWG. NO.

SHEET

SIZE

SCROLL 7-10 QUADPLEX