

L1 L2

 REV
 REVISION
 DATE
 ECN
 NAME
 CHKD

 B-1
 RELEASE TO PRODUCTION
 07/23/12
 PXEC0667
 BTS
 SEK

OPTIONAL:

P WEREX

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DRAWN BY	CHECKED BY	ENGINEERING APPR□VAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE

DUPLEX LAB COMP

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

VG. TYPE VITO

WIRING

DWG. NO.

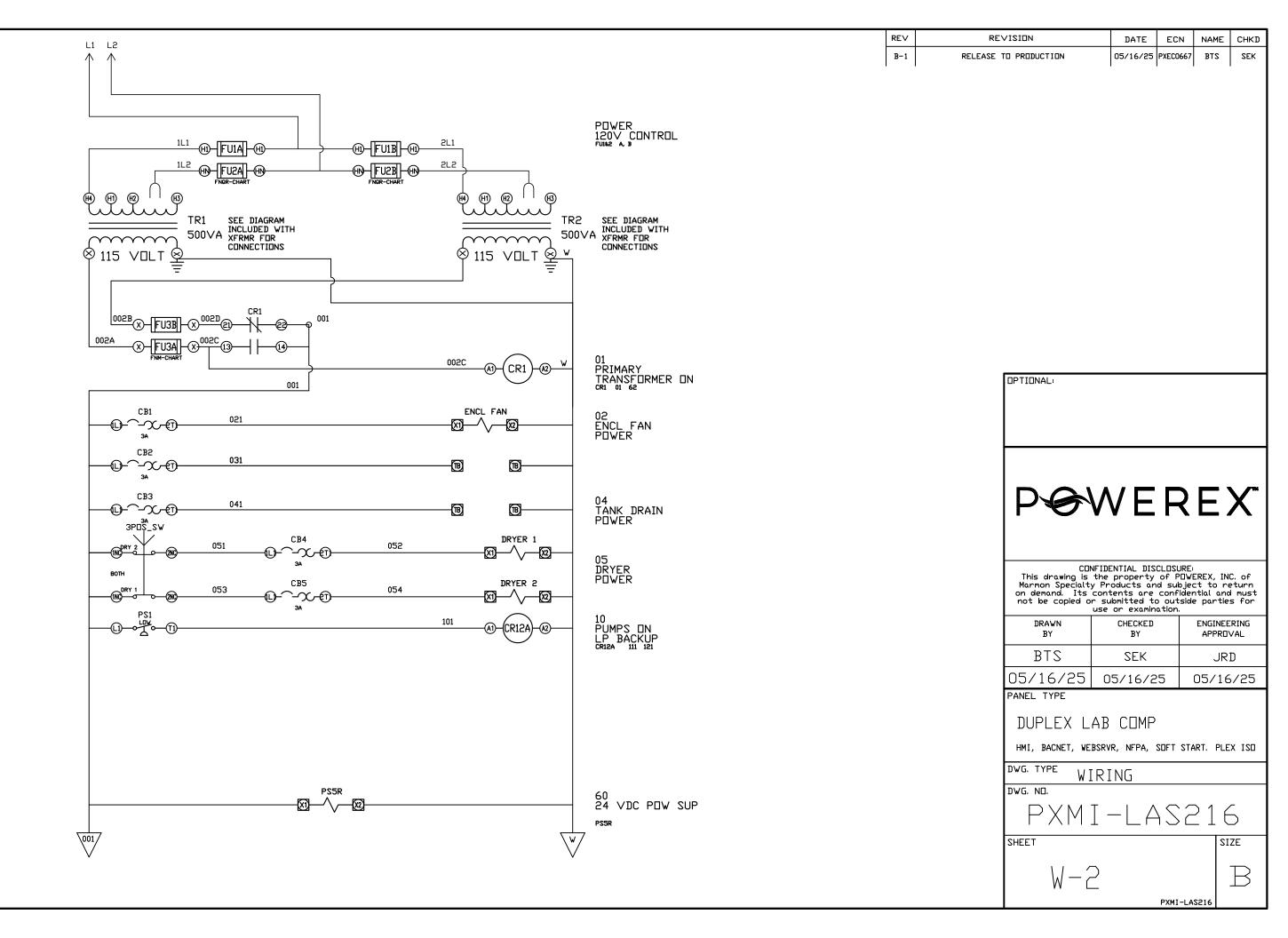
PXMI-LAS216

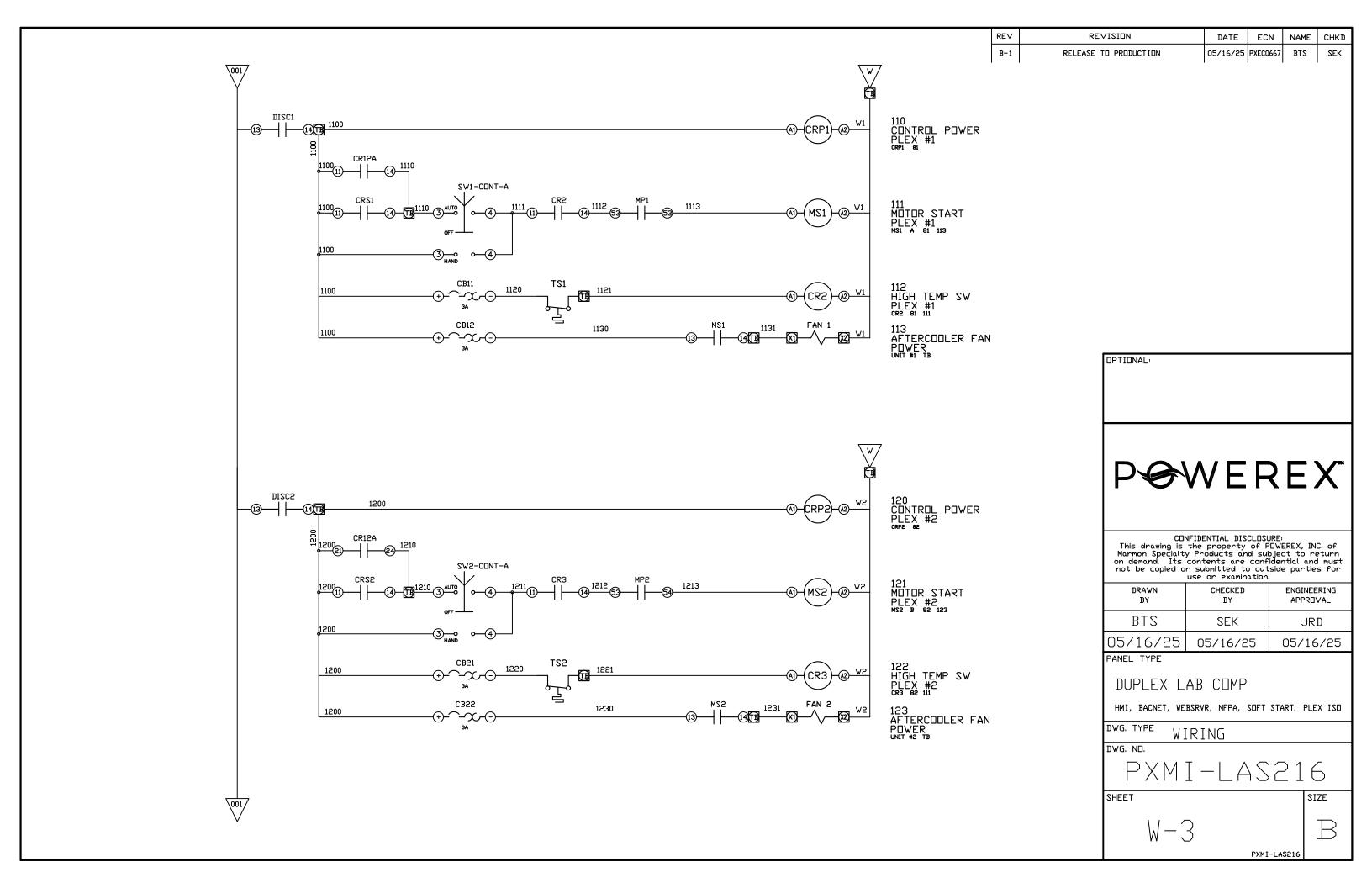
SHEET

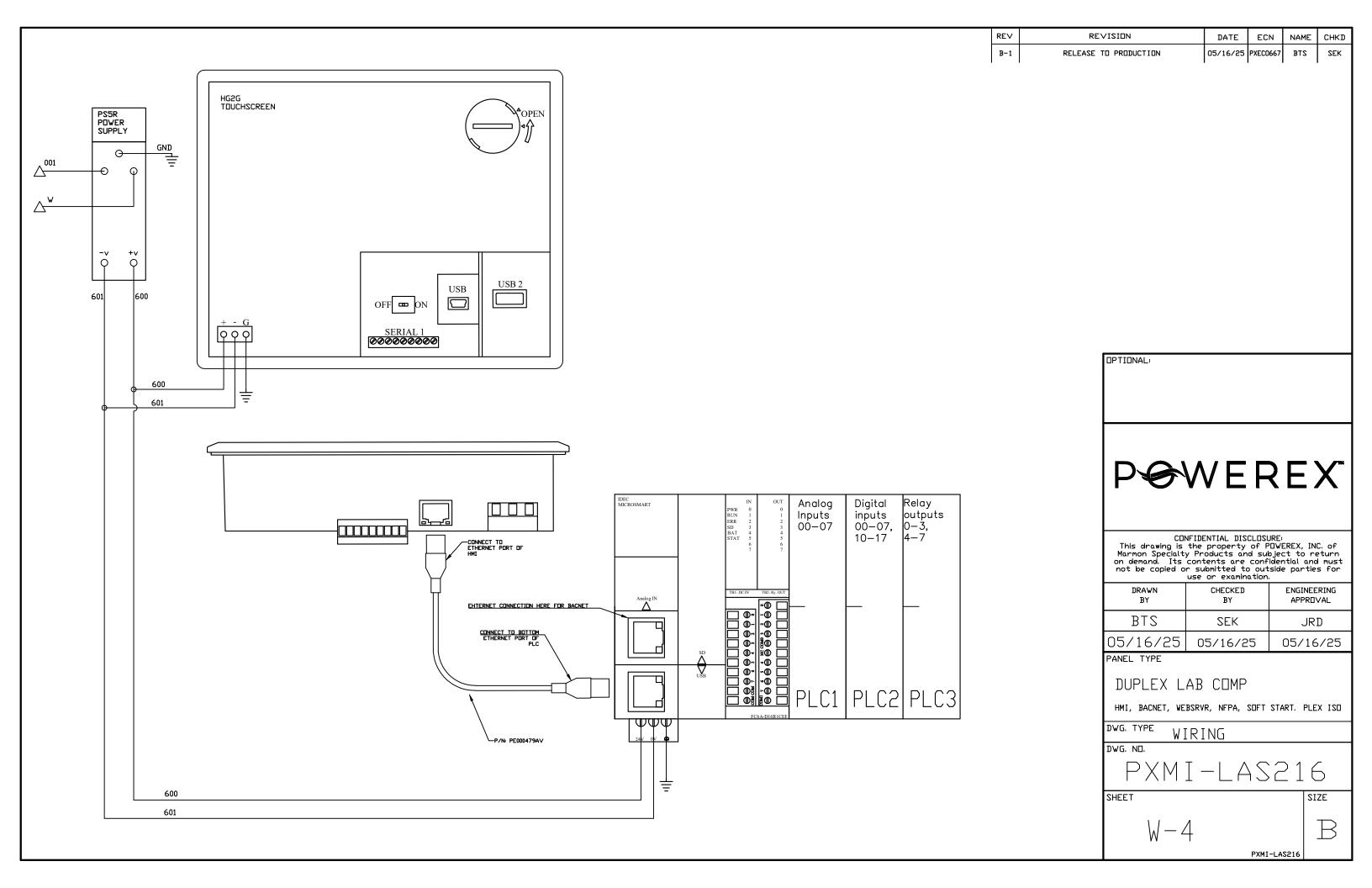
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W - 1

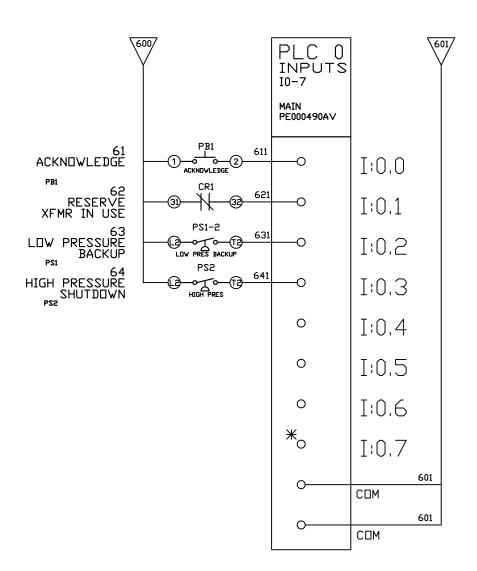
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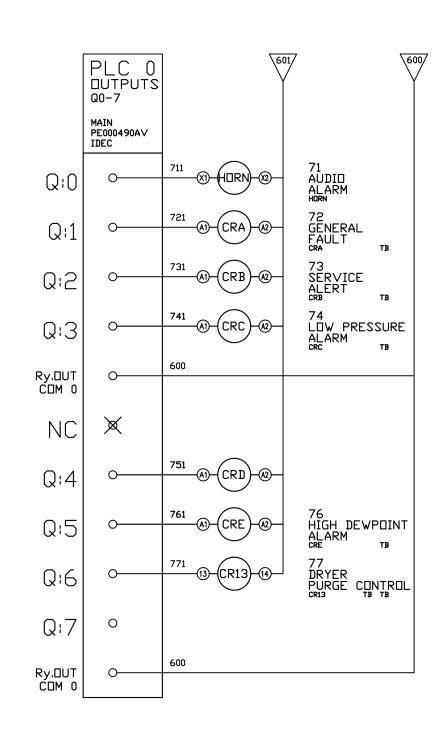






RE∨	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXEC0667	втѕ	SEK







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05/16/25	05/16/25	05/16/25

PANEL TYPE

DUPLEX LAB COMP

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

DWG. TYPE WIRING

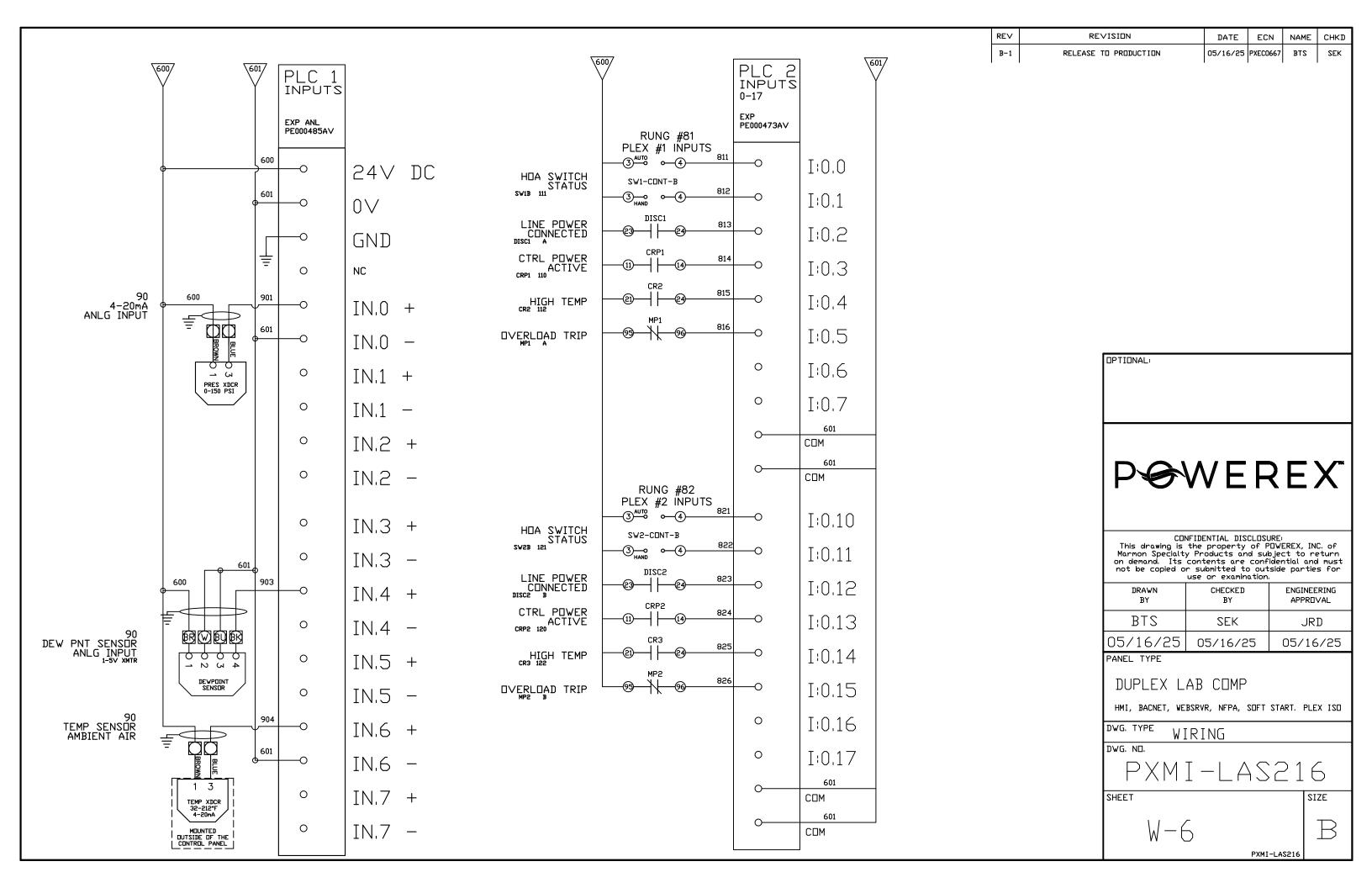
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PXMI-LAS216

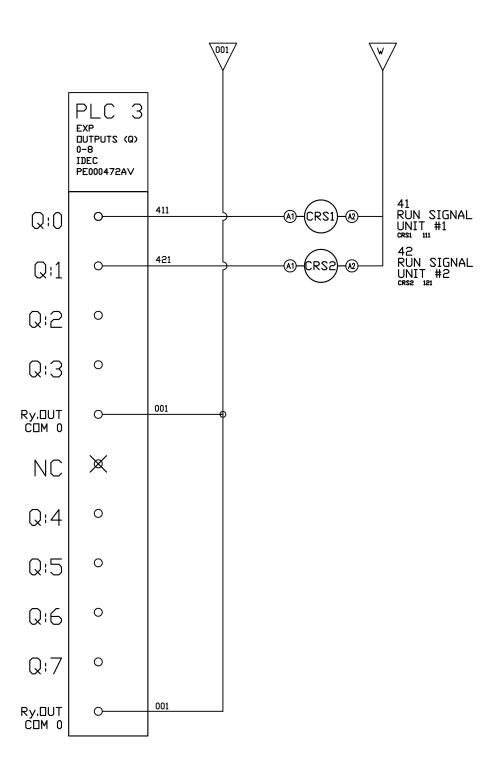
SHEET

SIZE

W-5



RE∨	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/16/25	PXECO667	втѕ	SEK





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

PANEL TYPE

DUPLEX LAB COMP

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

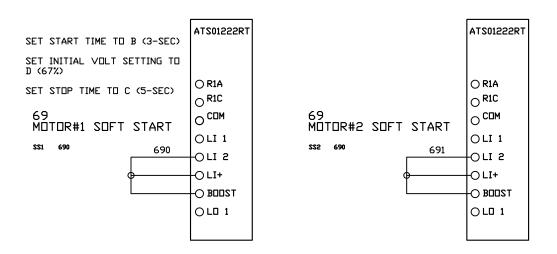
WIRING

PXMI-LAS216

SHEET

W-7

REV	REVISION	DATE	ECN	NAME	CHKD
В-	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

DUPLEX LAB COMP

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

OWG. TYPE

WIRING

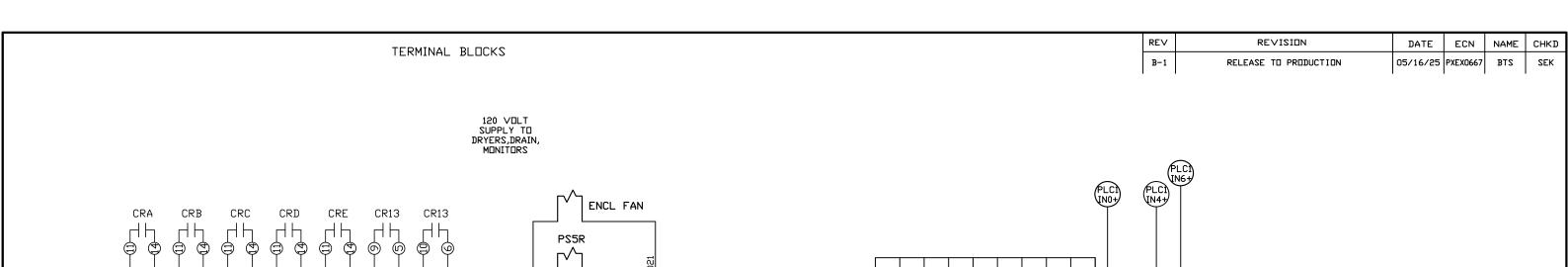
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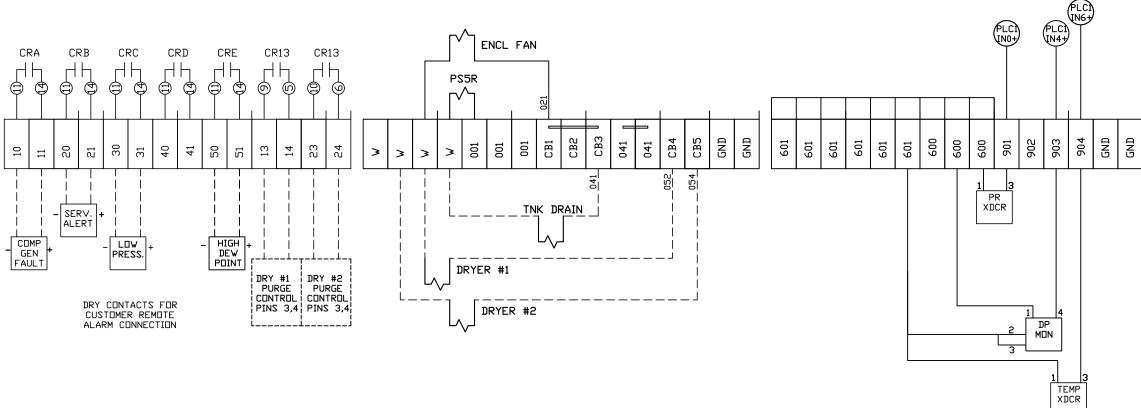
PXMI-LAS216

SHEET

SIZE

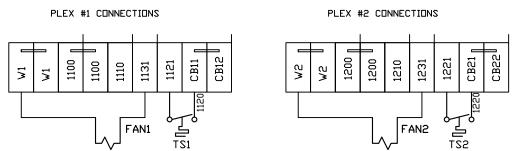
M-8





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:

P W EREX

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DRAWN BY	CHECKED BY	ENGINEERING APPR□VAL
BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE

DUPLEX LAB COMP

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

WG. TYPE WIRING

DWG. NO.

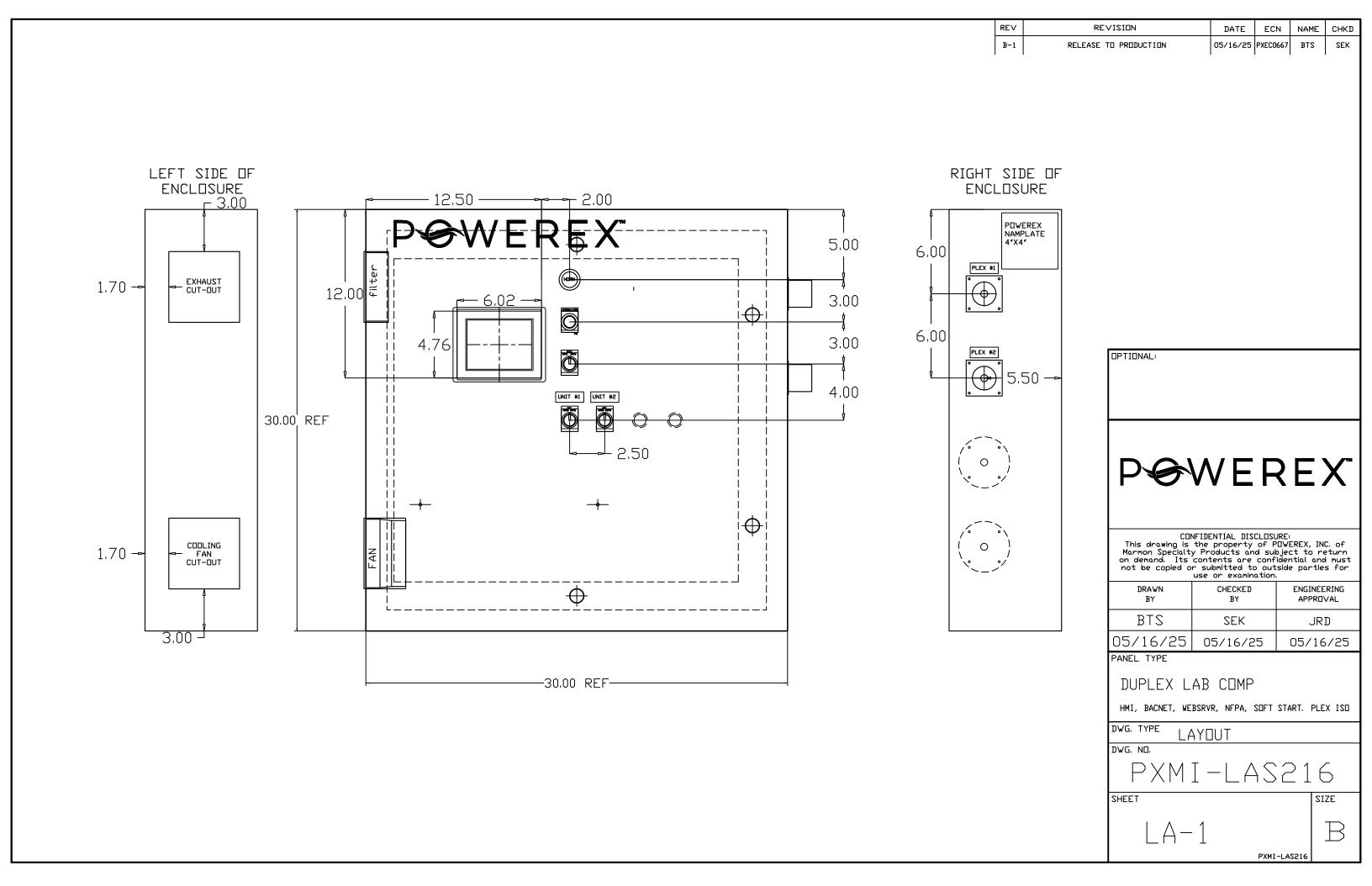
PXMI-LAS216

SHEET

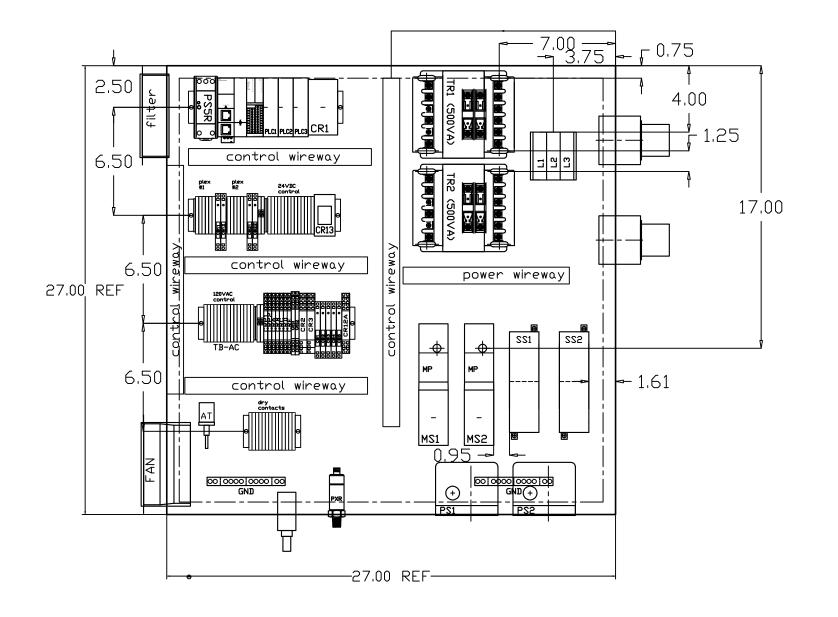
W-9

PXMI-LAS216

SIZE



RE∨	REVISION	DATE	ECN	NAME	СНКД
B-1	RELEASE TO PRODUCTION	05/16/25	PXECO667	BTS	SEK



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BTS	SEK	JRD
05/16/25	05/16/25	05/16/25

PANEL TYPE

DUPLEX LAB COMP

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

LAYDUT

PXMI-LAS216

SHEET

SIZE

LA-2

TABLE 1	P/N	MOTOR FULL LOAD AMPS	TOTAL FULL LOAD AMPS	NON-TIME DELAY FUSE	TIME DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
2007 (2 <i>0</i>)	72AJ	21.1	44.2	90	70	80
208V (3Ø)	A2AJ	26.5	55	110	80	100
220V (2Ø)	73AJ	17.9	37.8	80	60	70
230V (3Ø)	A3AJ	24	50	100	70	90
160V (3Q)	74AJ	8.97	19.94	40	30	35
460V (3Ø)	A4AJ	12	26	50	35	45
380V (3Ø)	78AJ	10.7	23.4	45	35	40
50HZ	A8AJ	14.5	31	60	45	60

RE∨	REVISI□N	DATE	ECN	NAME	CHKD	Ì
B-1	RELEASE TO PRODUCTION	07/24/14	PXEC0057	KMD	DMS	

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 (CLASS J) 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. \triangle -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.
- 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.

FIELD WIRING NOTES ON PAGE W-7.

OPTIONAL:

208V/230V/460V/380V/575V

C⊡NTR⊡L TRANSFORMERS - 500∨A										
REPLACEMENT		208	230	460 380	575	WIRE TYPE TABLE				
FUSE 7	TYPE	VOLT	VOLT	VOLT	VOLT	VOLTAGE	WIRE NUMBERS	GAUGE	COLOR	
FU1,2A FU1,2B	FNQR (CC)	6A	5A	5A	4A	120VAC 0VAC 24VDC	001-599,1100+ W 600-1099	16-18AWG 16-18AWG 16-18AWG	WHT/BLK PURPLE	
FU3A,B	FNM	7A	7A	7A	7A	0∨DC GND	601	16-18AWG VARIES	GREEN	
SEE XFRMR FOR CONNECTIONS				CUSTOMER SUPPLY	01-99	16-18AWG	YELLOW			
SEE XFRMR FOR CONNECTIONS				SUPPLY				L		

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PANEL TYPE

7.5/10 SCROLL DATA DUPLEX PANEL DATA

DWG. TYPE MISC

SCROLL 7-10 DUPLEX

SIZE

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 DVG. NO. 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 SHEET (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.