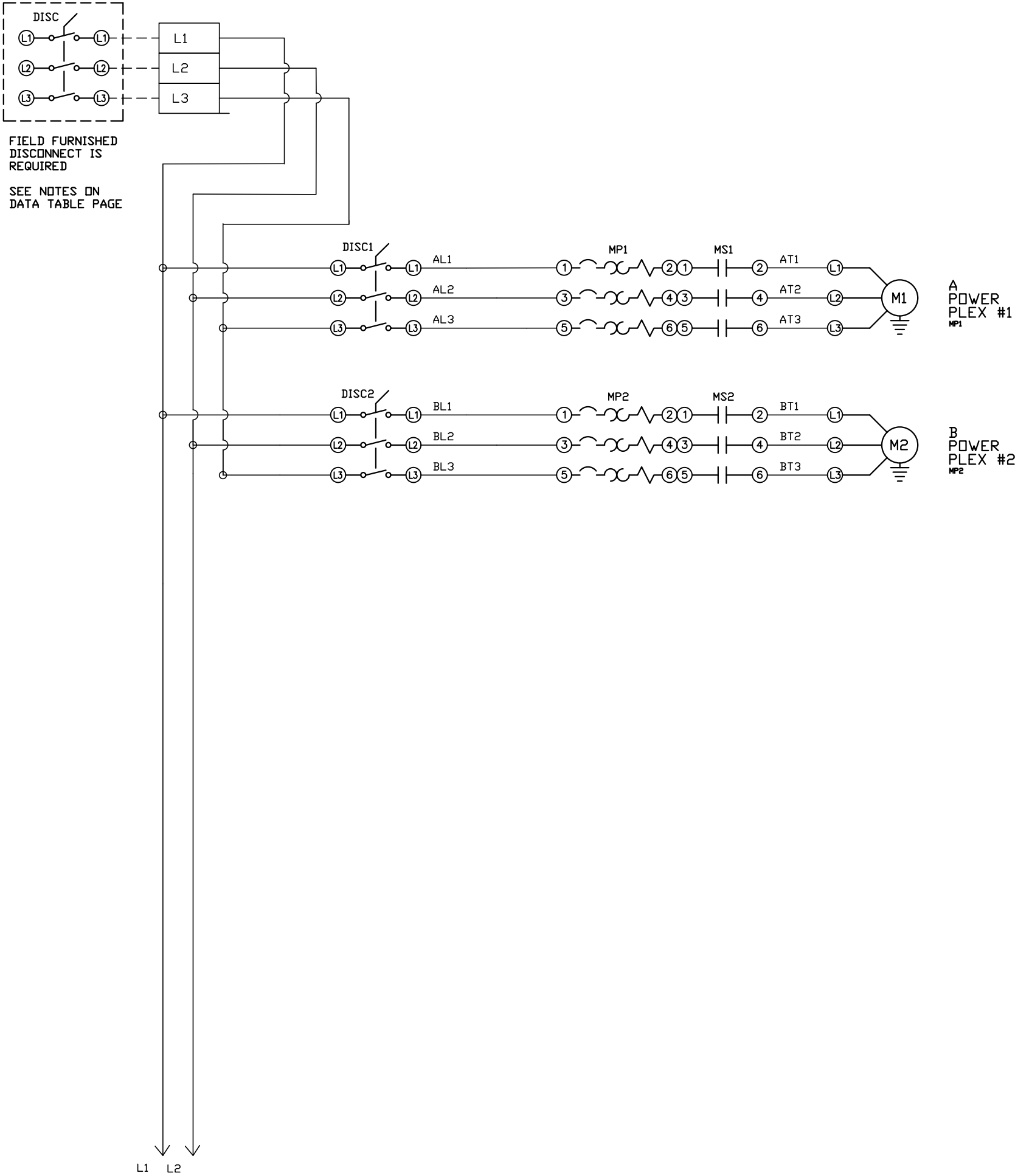




| REV | REVISION                     | DATE     | ECN      | NAME | CHKD |
|-----|------------------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION        | 08/08/12 | 22545    | CHR  | DMS  |
| F-1 | ADDED GROUND TERMINAL BLOCKS | 04/28/25 | PXEC0688 | JRD  | STK  |
| G-1 | ADDED PLEX ISOLATOIN         | 07/07/25 | PXEC0639 | SEK  | WMM  |

OPTIONAL:

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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| CHR      | DMS        | DMS                  |
| 07/20/11 | 11/07/11   | 11/07/11             |

PANEL TYPE

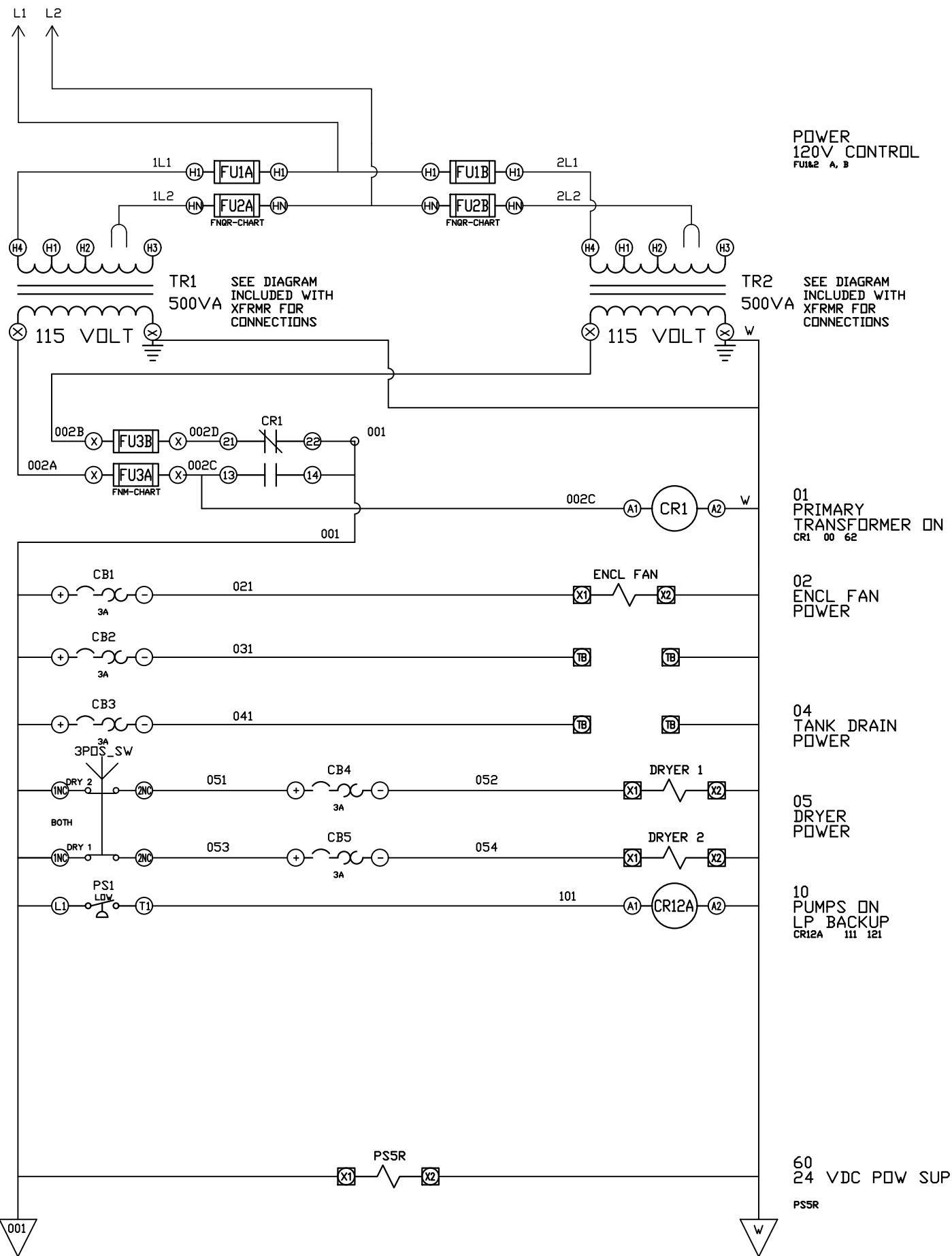
LAB AIR DUPLEX  
HMI, NFPA

DWG. TYPE      WIRING

DWG. NO.

PXMI-LA216    W

| SHEET | SIZE |
|-------|------|
| W-1   | B    |



| REV | REVISION                     | DATE     | ECN      | NAME | CHKD |
|-----|------------------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION        | 11/07/11 | 22545    | CHR  | DMS  |
| F-1 | ADDED GROUND TERMINAL BLOCKS | 04/28/25 | PXEC0688 | JRD  | STK  |
| G-1 | ADDED PLEX ISOLATOIN         | 07/07/25 | PXEC0639 | SEK  | WMM  |

OPTIONAL:

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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| CHR      | DMS        | DMS                  |
| 07/20/11 | 11/07/11   | 11/07/11             |

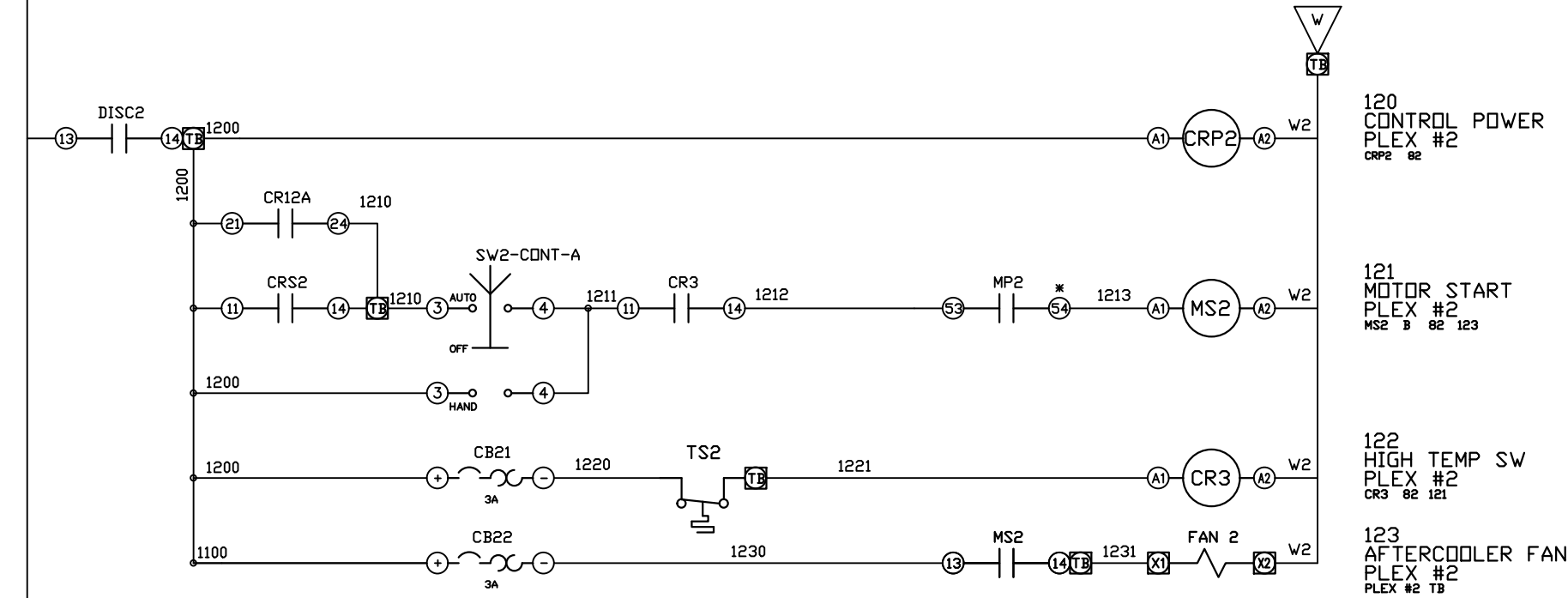
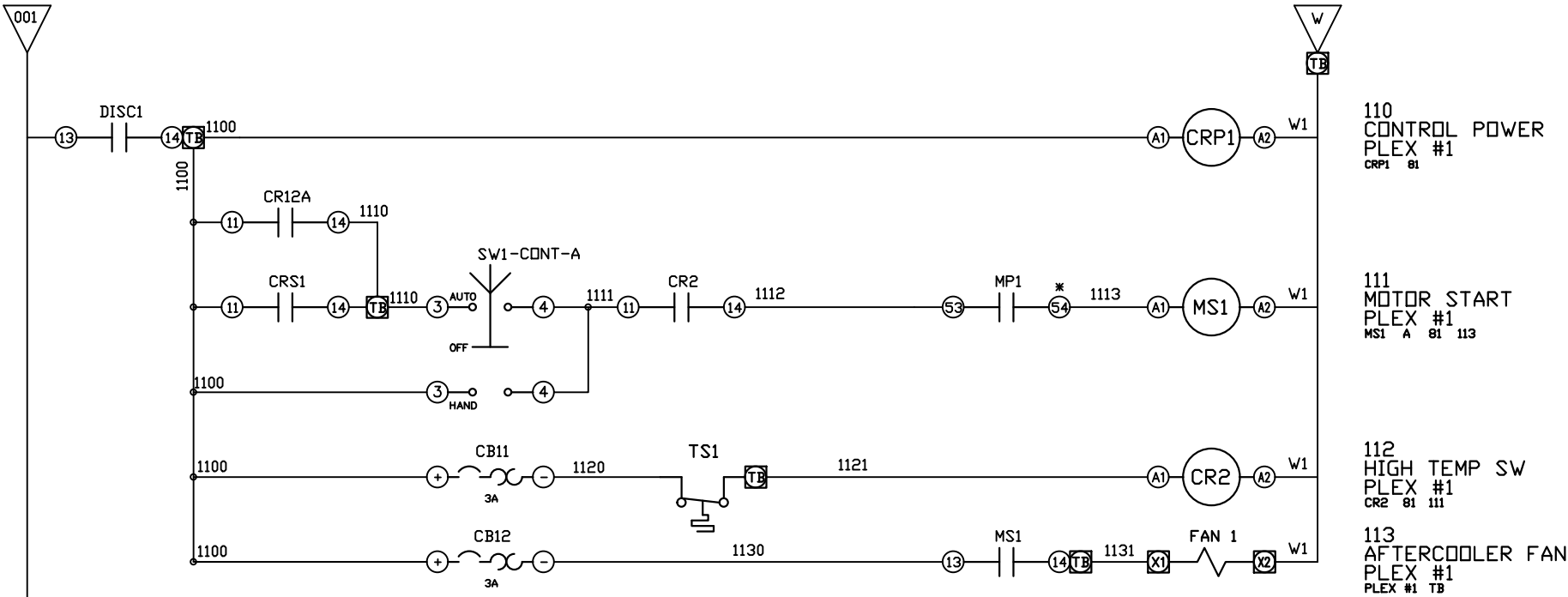
PANEL TYPE  
LAB AIR DUPLEX  
HMI, NFPA

DWG. TYPE  
WIRING

DWG. NO.  
PXMI-LA216 W

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

| REV | REVISION                     | DATE     | ECN      | NAME | CHKD |
|-----|------------------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION        | 07/20/11 | 22545    | CHR  | DMS  |
| F-1 | ADDED GROUND TERMINAL BLOCKS | 04/28/25 | PXEC0688 | JRD  | STK  |
| G-1 | ADDED PLEX ISOLATOIN         | 07/07/25 | PXEC0639 | SEK  | WMM  |



\* FOR LAYOUT-B MOTOR PROTECTORS  
USE PINS #1 AND #4 ON AUX CONTACTS

OPTIONAL:

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|          |            |                      |
|----------|------------|----------------------|
| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
| CHR      | DMS        | DMS                  |
| 07/20/11 | 11/07/11   | 11/07/11             |

PANEL TYPE

LAB AIR DUPLEX  
HMI, NFPA

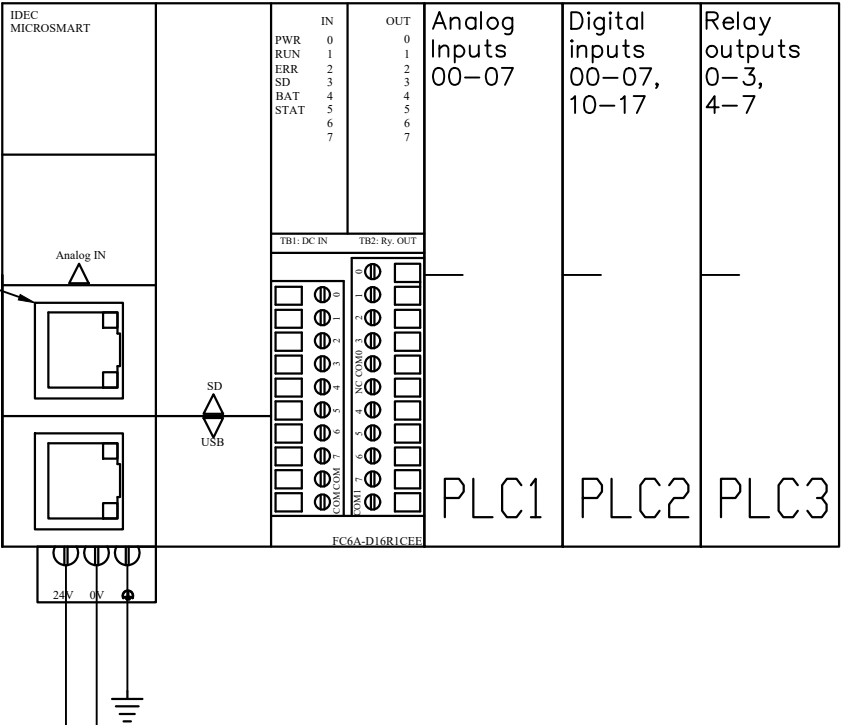
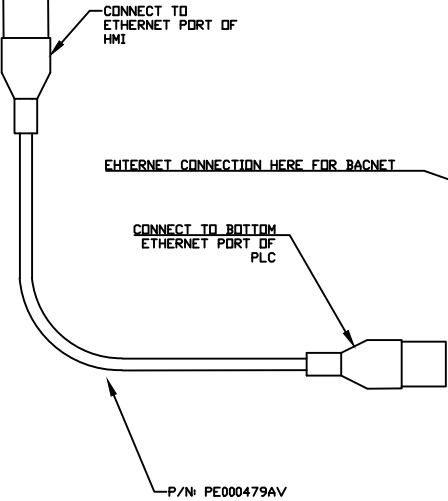
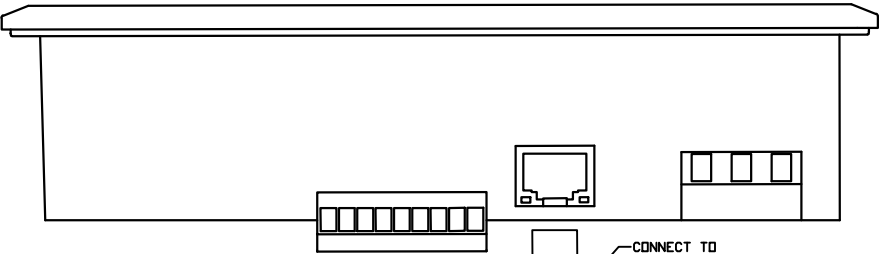
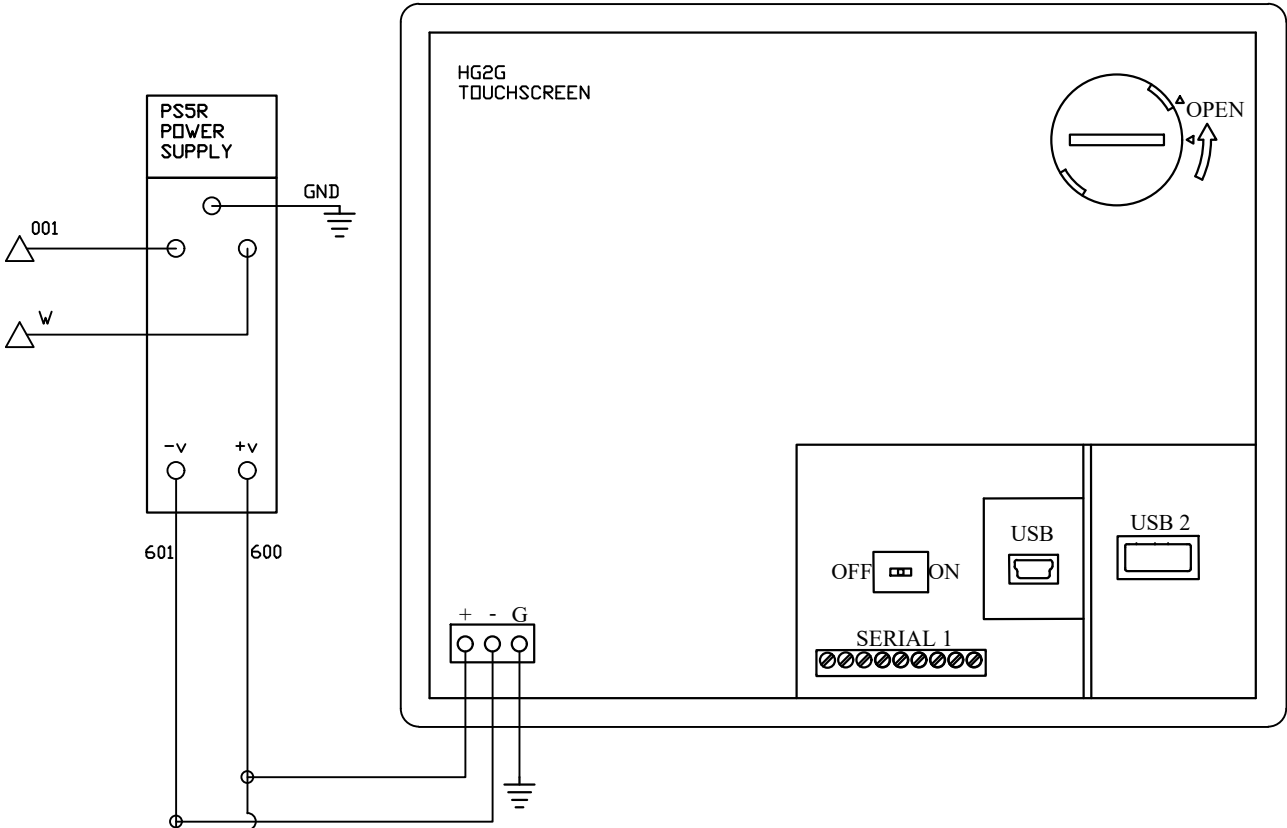
DWG. TYPE WIRING

DWG. NO. PXMI-LA216 W

|       |      |
|-------|------|
| SHEET | SIZE |
| W-3   | B    |

PXMI-LA216 B1

| REV | REVISION                     | DATE     | ECN      | NAME | CHKD |
|-----|------------------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION        | 11/07/11 | 22545    | CHR  | DMS  |
| F-1 | ADDED GROUND TERMINAL BLOCKS | 04/28/25 | PXEC0688 | JRD  | STK  |
| G-1 | ADDED PLEX ISOLATDIN         | 07/07/25 | PXEC0639 | SEK  | WMM  |



OPTIONAL:

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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| CHR      | DMS        | DMS                  |
| 07/20/11 | 11/07/11   | 11/07/11             |

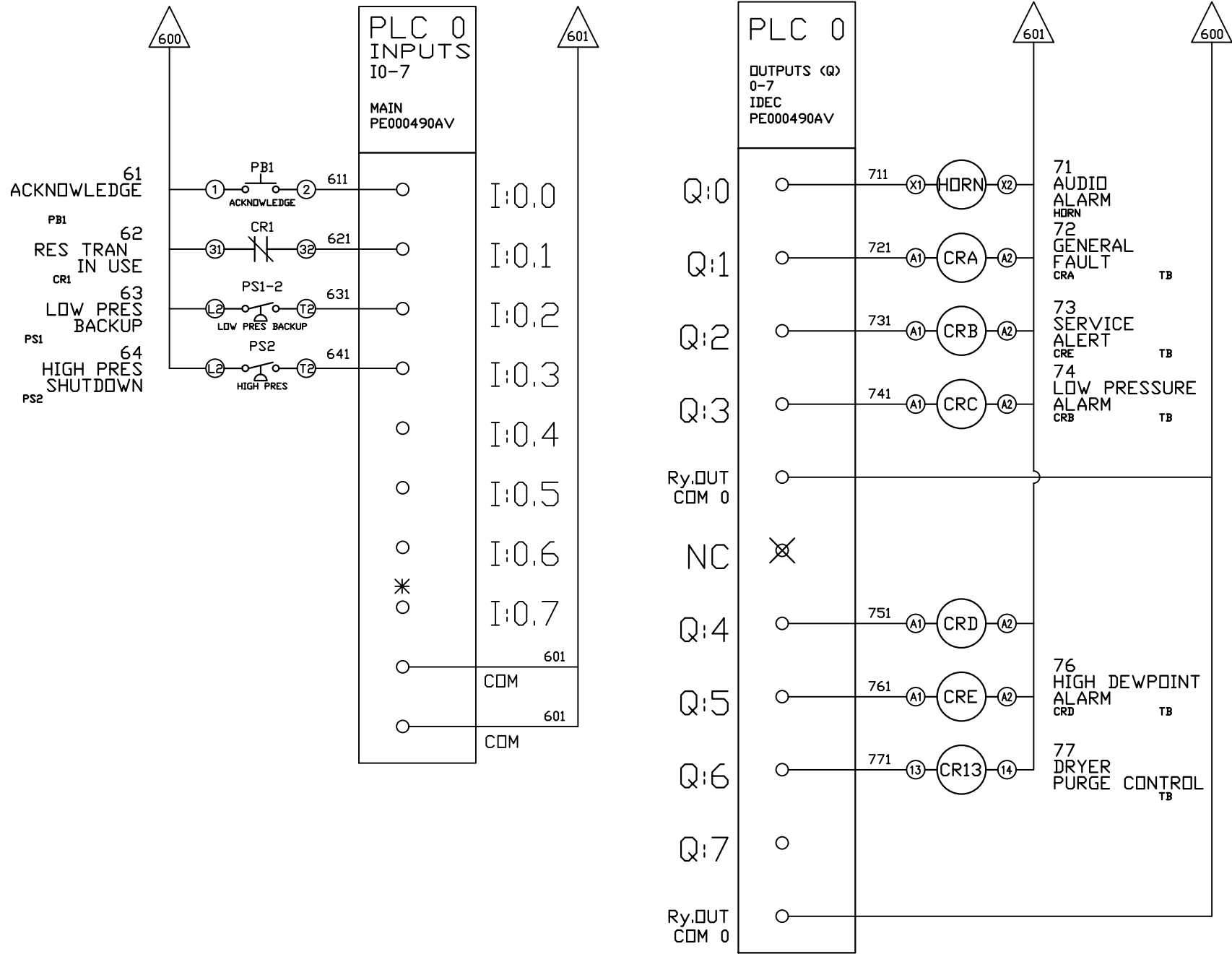
PANEL TYPE  
LAB AIR DUPLEX  
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.  
PXMI-LA216 W

| SHEET | SIZE |
|-------|------|
| W-4   | B    |

| REV | REVISION                     | DATE     | ECN      | NAME | CHKD |
|-----|------------------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION        | 11/07/11 | 22545    | CHR  | DMS  |
| F-1 | ADDED GROUND TERMINAL BLOCKS | 04/28/25 | PXEC0688 | JRD  | STK  |
| G-1 | ADDED PLEX ISOLATOIN         | 07/07/25 | PXEC0639 | SEK  | WMM  |



\*FACTORY TEST JUMPER LOCATION

OPTIONAL:

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|          |            |                      |
|----------|------------|----------------------|
| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
| CHR      | DMS        | DMS                  |
| 07/20/11 | 11/07/11   | 11/07/11             |

PANEL TYPE

LAB AIR DUPLEX  
HMI, NFPA

DWG. TYPE      WIRING

DWG. NO.

PXMI-LA216    W

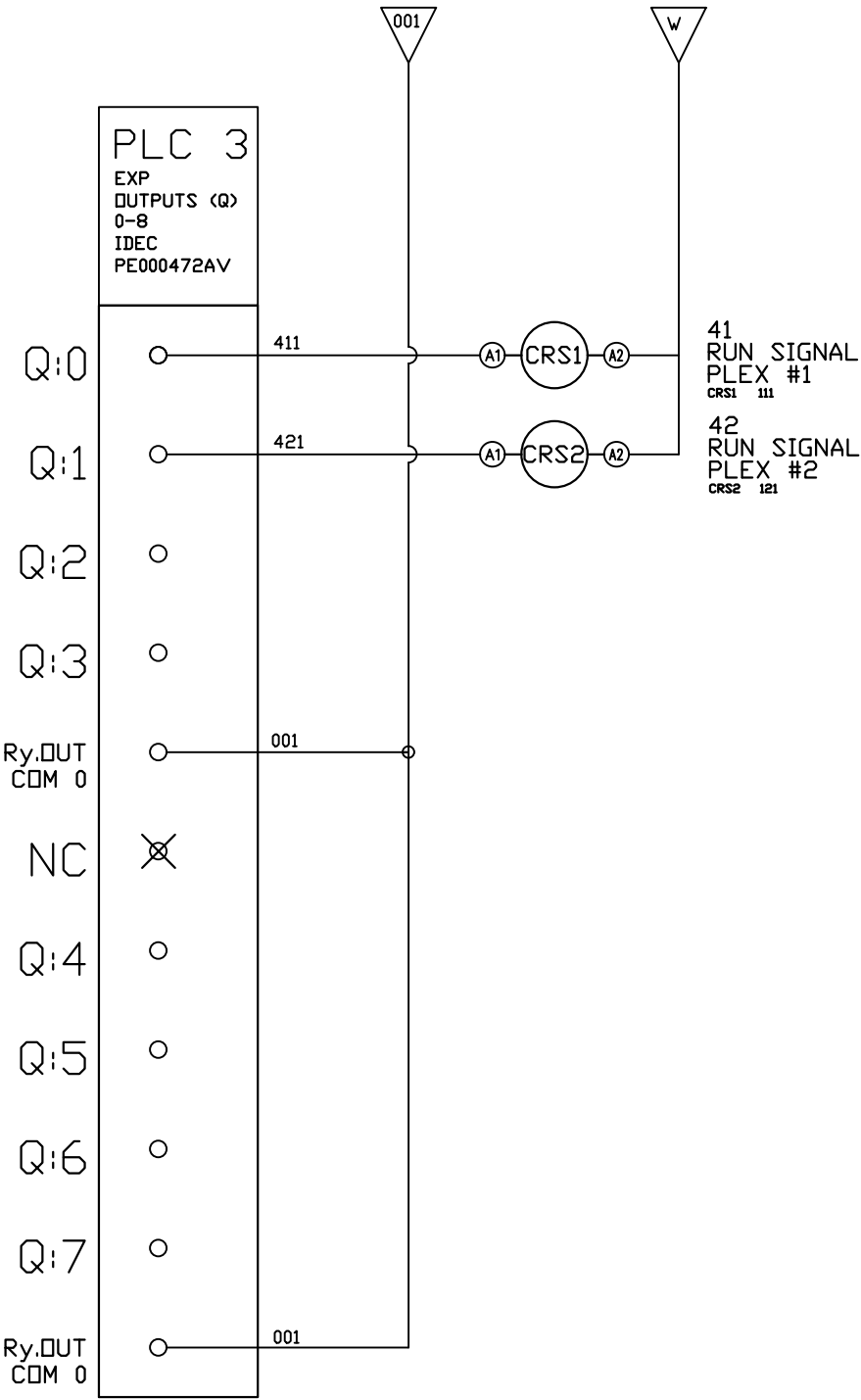
|       |      |
|-------|------|
| SHEET | SIZE |
| W-5   | B    |

PXMI-LA216 B1





| REV | REVISION                     | DATE     | ECN      | NAME | CHKD |
|-----|------------------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION        | 11/07/11 | 22545    | CHR  | DMS  |
| F-1 | ADDED GROUND TERMINAL BLOCKS | 04/28/25 | PXEC0688 | JRD  | STK  |
| G-1 | ADDED PLEX ISOLATOIN         | 07/07/25 | PXEC0639 | SEK  | WMM  |



OPTIONAL:

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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| CHR      | DMS        | DMS                  |
| 07/20/11 | 11/07/11   | 11/07/11             |

PANEL TYPE  
LAB AIR DUPLEX  
HMI, NFPA

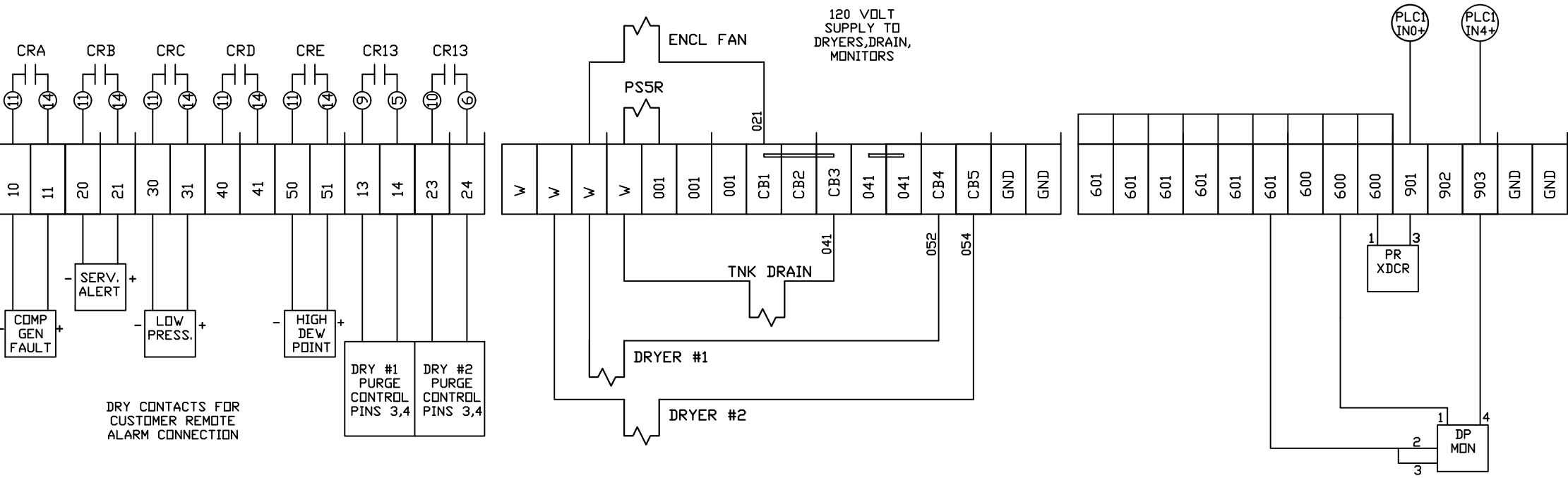
DWG. TYPE WIRING

DWG. NO.  
PXMI-LA216 W

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

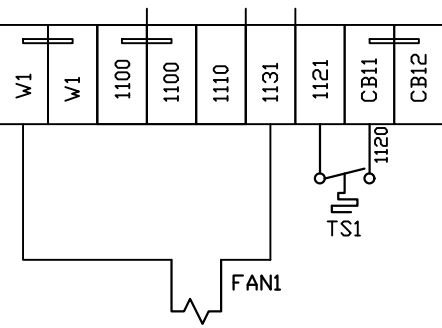
TERMINAL BLOCKS

| REV | REVISION                     | DATE     | ECN      | NAME | CHKD |
|-----|------------------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION        | 11/07/11 | 22545    | CHR  | DMS  |
| F-1 | ADDED GROUND TERMINAL BLOCKS | 04/28/25 | PXEC0688 | JRD  | STK  |
| G-1 | ADDED PLEX ISOLATOIN         | 07/07/25 | PXEC0639 | SEK  | WMM  |

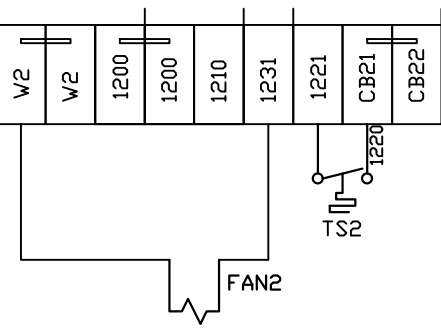


COMP GEN FAULT  
SERV. ALERT  
LOW PRESS.  
HIGH DEW POINT  
DRY #1 PURGE CONTROL PINS 3,4  
DRY #2 PURGE CONTROL PINS 3,4  
DRY CONTACTS FOR CUSTOMER REMOTE ALARM CONNECTION

PLEX #1 CONNECTIONS



PLEX #2 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 |
| CHR      | DMS        | DMS                  |
| 07/20/11 | 11/07/11   | 11/07/11             |

PANEL TYPE

LAB AIR DUPLEX  
HMI, NFPA

DWG. TYPE      WIRING

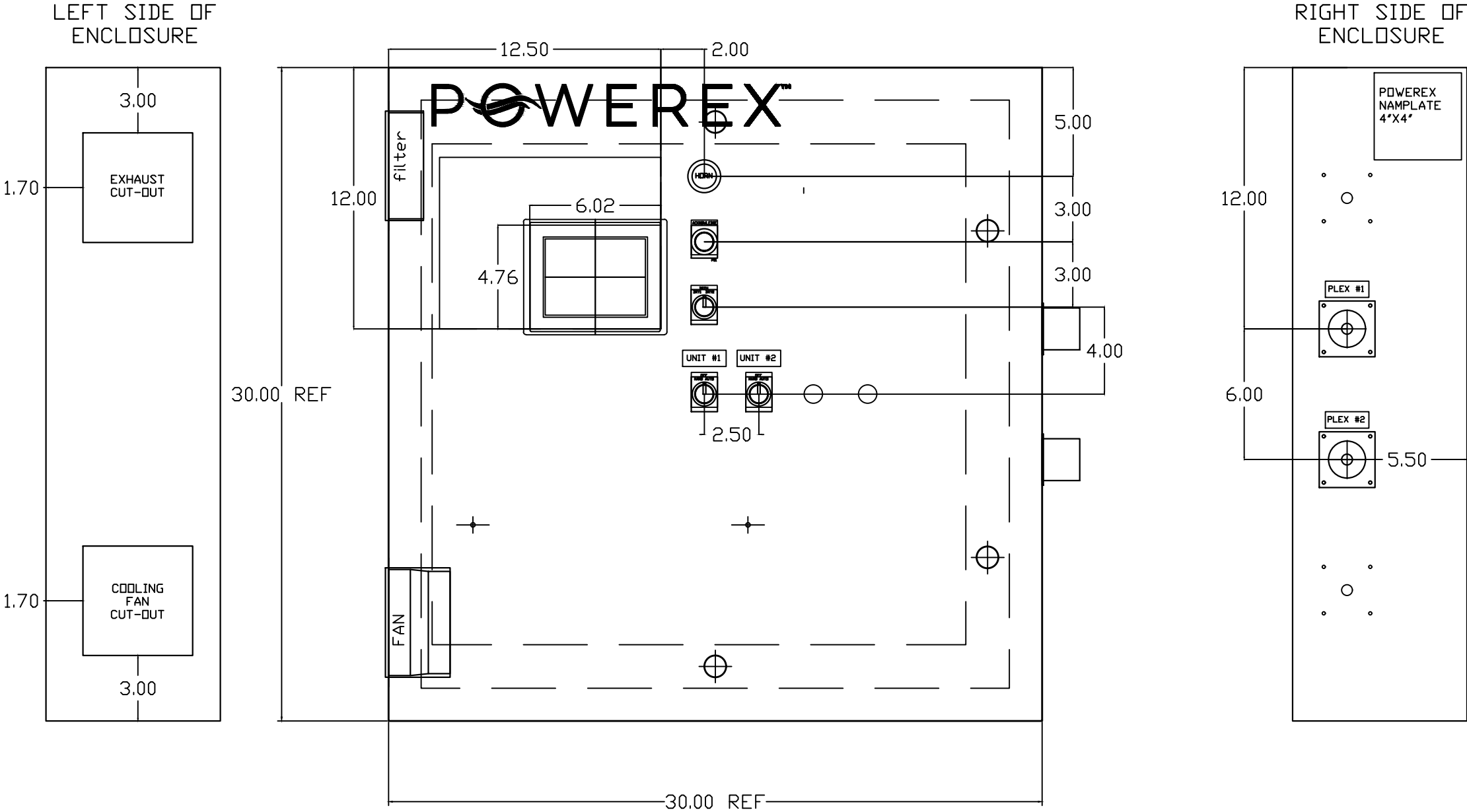
DWG. NO.  
PXMI-LA216    W

|       |      |
|-------|------|
| SHEET | SIZE |
| W-8   | B    |

PXMI-LA216 B1



| REV | REVISION                     | DATE     | ECN      | NAME | CHKD |
|-----|------------------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION        | 11/07/11 | 22545    | CHR  | DMS  |
| F-1 | ADDED GROUND TERMINAL BLOCKS | 04/28/25 | PXEC0688 | JRD  | STK  |
| G-1 | ADDED PLEX ISOLATOIN         | 07/07/25 | PXEC0639 | SEK  | WMM  |



OPTIONAL:

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|          |            |                      |
|----------|------------|----------------------|
| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
| CHR      | DMS        | DMS                  |
| 07/20/11 | 11/07/11   | 11/07/11             |

PANEL TYPE

LAB AIR DUPLEX  
HMI, BACNET, WEBSRVR, NFPA

DWG. TYPE LAYOUT A

DWG. NO. PXMI-LA216 W

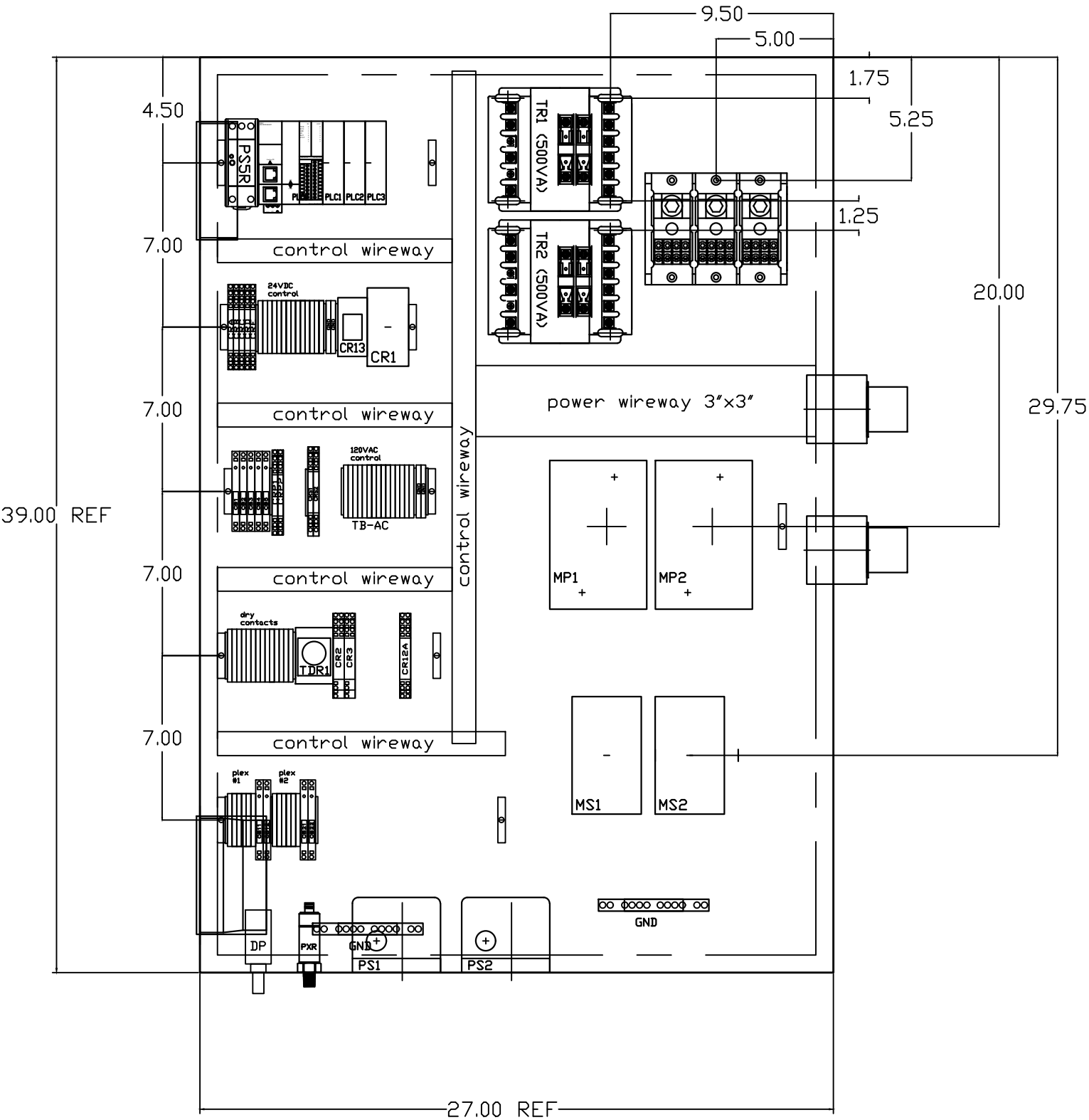
|       |      |
|-------|------|
| SHEET | SIZE |
| LA-1  | B    |

PBMI-LA216 B1





| REV | REVISION                     | DATE     | ECN      | NAME | CHKD |
|-----|------------------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION        | 11/07/11 | 22545    | CHR  | DMS  |
| F-1 | ADDED GROUND TERMINAL BLOCKS | 04/28/25 | PXEC0688 | JRD  | STK  |
| G-1 | ADDED PLEX ISOLATOIN         | 07/07/25 | PXEC0639 | SEK  | WMM  |



OPTIONAL:

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|          |            |                      |
|----------|------------|----------------------|
| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
| CHR      | DMS        | DMS                  |
| 07/20/11 | 11/07/11   | 11/07/11             |

PANEL TYPE

LAB AIR DUPLEX  
HMI, NFPA

DWG. TYPE LAYOUT B

DWG. NO. PXMI-A216 W

|       |      |
|-------|------|
| SHEET | SIZE |
| LB-2  | B    |

PXMI-A216 B1

| TABLE 1        | P/N    | MOTOR FULL LOAD AMPS | TOTAL FULL LOAD AMPS | NON-TIME DELAY FUSE | TIME DELAY FUSE | INVERSE-TIME CIRCUIT BREAKER |
|----------------|--------|----------------------|----------------------|---------------------|-----------------|------------------------------|
| 208V (3Ø)      | 02AJ   | 4.1                  | 10.2                 | 20                  | 15              | 20                           |
|                | 12AJ   | 4.5                  | 11                   | 20                  | 15              | 20                           |
|                | 22AJ   | 5.6                  | 13.2                 | 25                  | 20              | 25                           |
|                | 32AJ   | 8.8                  | 19.6                 | 40                  | 30              | 35                           |
|                | 52AJ   | 14.6                 | 31.2                 | 70                  | 45              | 60                           |
|                | 72AJ   | 20.5                 | 43                   | 90                  | 60              | 80                           |
|                | A2AJ * | 27.4                 | 56.8                 | 125                 | 80              | 100                          |
|                | F2AJ * | 41.1                 | 84.2                 | 175                 | 125             | 150                          |
| 230V (3Ø)      | 03AJ   | 3.6                  | 9.2                  | 20                  | 15              | 20                           |
|                | 13AJ   | 4.4                  | 10.8                 | 20                  | 15              | 20                           |
|                | 23AJ   | 5.8                  | 13.6                 | 30                  | 20              | 25                           |
|                | 33AJ   | 7.7                  | 17.4                 | 35                  | 25              | 30                           |
|                | 53AJ   | 12.7                 | 27.4                 | 60                  | 40              | 50                           |
|                | 73AJ   | 18.5                 | 39                   | 80                  | 60              | 70                           |
|                | A3AJ   | 24.8                 | 51.6                 | 110                 | 70              | 90                           |
|                | F3AJ * | 37.2                 | 76.4                 | 175                 | 125             | 150                          |
| 460V (3Ø)      | 04AJ   | 1.8                  | 5.6                  | 10                  | 10              | 10                           |
|                | 14AJ   | 2.2                  | 6.4                  | 15                  | 10              | 15                           |
|                | 24AJ   | 2.7                  | 7.4                  | 15                  | 10              | 15                           |
|                | 34AJ   | 3.9                  | 9.8                  | 20                  | 15              | 20                           |
|                | 54AJ   | 6.3                  | 14.6                 | 30                  | 20              | 25                           |
|                | 74AJ   | 9.3                  | 20.6                 | 40                  | 30              | 40                           |
|                | A4AJ   | 12.4                 | 26.8                 | 60                  | 40              | 50                           |
|                | F4AJ   | 18.6                 | 39.2                 | 80                  | 60              | 70                           |
| 380V (3Ø) 50HZ | 08AJ   |                      |                      |                     |                 |                              |
|                | 18AJ   |                      |                      |                     |                 |                              |
|                | 28AJ   | 3.4                  | 8.8                  | 20                  | 15              | 15                           |
|                | 38AJ   | 4.6                  | 11.2                 | 25                  | 15              | 20                           |
|                | 58AJ   | 7.7                  | 17.4                 | 35                  | 25              | 30                           |
|                | 78AJ   | 11.1                 | 24.2                 | 50                  | 35              | 45                           |
|                | A8AJ   | 14.9                 | 31.8                 | 70                  | 45              | 60                           |
|                | F8AJ   | 22.1                 | 46.2                 | 100                 | 70              | 80                           |
| 575V (3Ø)      | 07AJ   | 1.1                  | 4.2                  | 10                  | 10              | 10                           |
|                | 17AJ   | 1.76                 | 5.5                  | 10                  | 10              | 10                           |
|                | 27AJ   | 2.3                  | 6.6                  | 15                  | 10              | 15                           |
|                | 37AJ   | 3.1                  | 8.2                  | 15                  | 15              | 15                           |
|                | 57AJ   | 5.1                  | 12.2                 | 25                  | 20              | 25                           |
|                | 77AJ   | 6.9                  | 15.8                 | 30                  | 25              | 30                           |
|                | A7AJ   | 9.9                  | 21.8                 | 45                  | 30              | 40                           |
|                | F7AJ   | 14.9                 | 31.8                 | 70                  | 45              | 60                           |

\* - USE LAYOUT B

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. Δ -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 |      |      |      |          |      | WIRE TYPE TABLE |               |          |         |
|------------------------------|------|------|------|----------|------|-----------------|---------------|----------|---------|
| FUSE                         |      | 208  | 230  | 460      | 575  | VOLTAGE         | WIRE NUMBERS  | GAUGE    | COLOR   |
| TYPE                         |      | VOLT | VOLT | 380 VOLT | VOLT |                 |               |          |         |
| FU1,2A                       | FNQR | 6A   | 5A   | 5A       | 4A   | 120VAC          | 001-599,1100+ | 16-18AWG | RED/BLK |
| FU1,2B                       |      |      |      |          |      | 0VAC            | W             | 16-18AWG | WHT/BLK |
|                              |      |      |      |          |      | 24VDC           | 600-1099      | 16-18AWG | PURPLE  |
| FU3A,B                       | FNM  | 7A   | 7A   | 7A       | 7A   | 0VDC            | 601           | 16-18AWG | PURPLE  |
|                              |      |      |      |          |      | GND             | -             | VARIES   | GREEN   |
|                              |      |      |      |          |      | CUSTOMER SUPPLY | 01-99         | 16-18AWG | YELLOW  |
| SEE XFRMR FOR CONNECTIONS    |      |      |      |          |      |                 |               |          |         |

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.

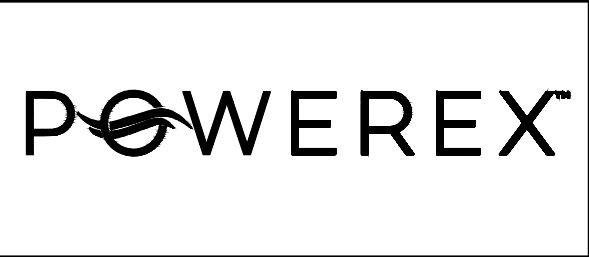
All plex configurations include a hardwired Back-up pressure switch circuit should a control failure occur. This circuit will call all pumps on and off based on the reserve pressure switch set-points.

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.

| REV | REVISION              | DATE     | ECN      | NAME | CHKD |
|-----|-----------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 03/12/12 | 22545    | BFH  | CHR  |
| C-1 | FORMAT UPDATE         | 03/04/13 | PXEC0038 | BFH  | CHR  |

|                          |
|--------------------------|
| OPTIONAL:                |
| 208V/230V/460V/380V/575V |



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| BFH      | CHR        | CHR                  |
| 03/12/12 | 09/20/11   | 09/20/11             |

|                                                |  |
|------------------------------------------------|--|
| PANEL TYPE                                     |  |
| COMPRESSOR DATA TABLE<br>3PH DUPLEX PANEL DATA |  |
| DWG. TYPE MISC                                 |  |
| DWG. NO.                                       |  |
| DATA TABLE                                     |  |

| SHEET             | SIZE |
|-------------------|------|
| D-1               | B    |
| DUPLEX PANEL DATA |      |