

A
POWER
UNIT #1
MP1 10

B
POWER
UNIT #2
MP2 11

C
POWER
UNIT #3
MP3 12

D
POWER
120V CONTROL
FU1&2 A, B

SEE DIAGRAM
INCLUDED WITH
XFRMR FOR
CONNECTIONS

O1
PRIMARY
TRANSFORMER ON
CRI 00 02

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |

| | | |
|-----------------|---------------------------------|-------------------------------------|
| OPTIONAL: | SINGLE CYLINDER AND SCROLLPUMPS | <input checked="" type="checkbox"/> |
| | DOUBLE-CYLINDER PUMPS | <input type="checkbox"/> |
| BACNET, WEBSVR, | TRIPLE-CYLINDER PUMPS | <input type="checkbox"/> |



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

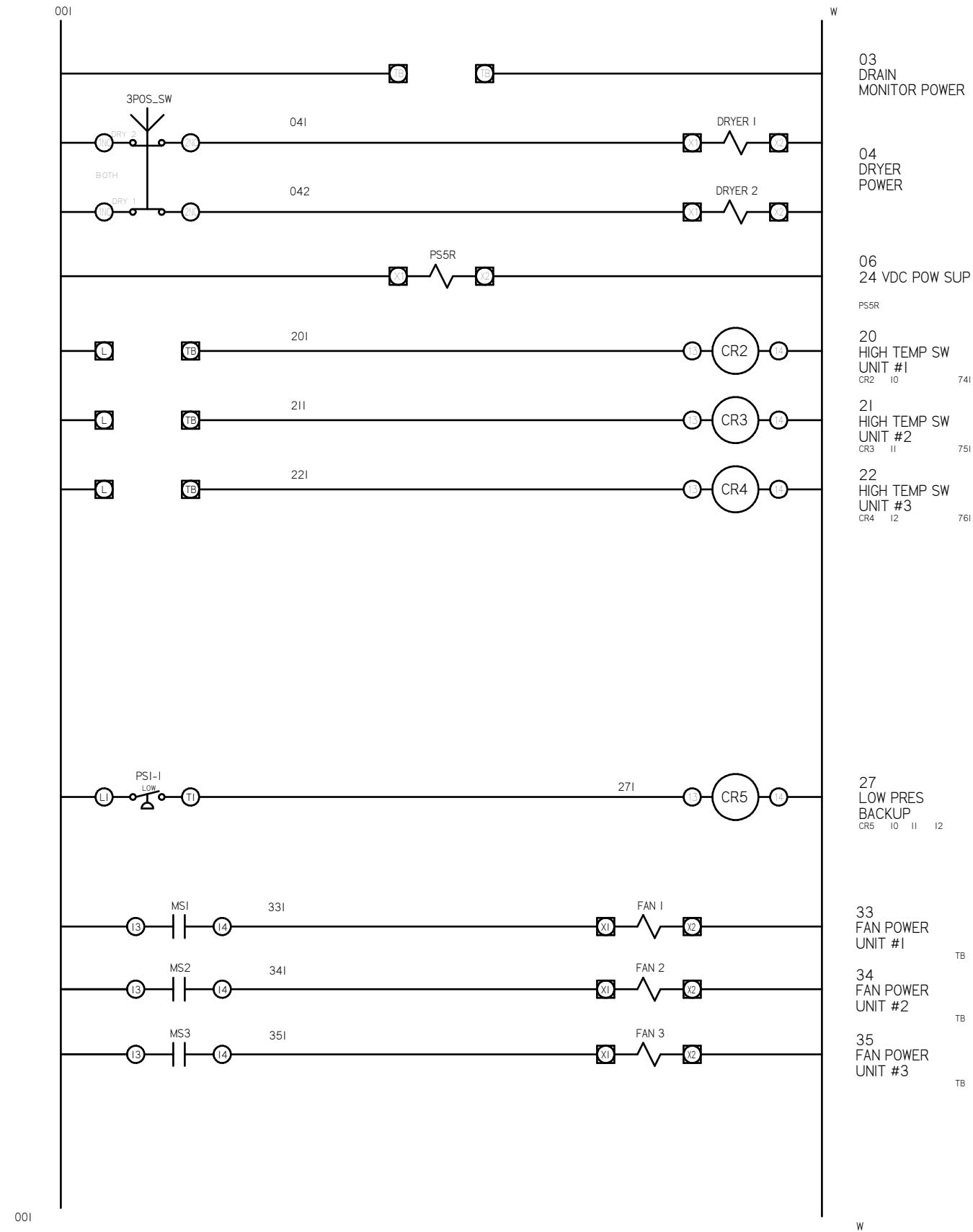
PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-LA316 W

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

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
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| | | |
|------------------|---------------------------------|-------------------------------------|
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| | DOUBLE-CYLINDER PUMPS | <input type="checkbox"/> |
| BACNET, WEBSRVR, | TRIPLE-CYLINDER PUMPS | <input type="checkbox"/> |



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

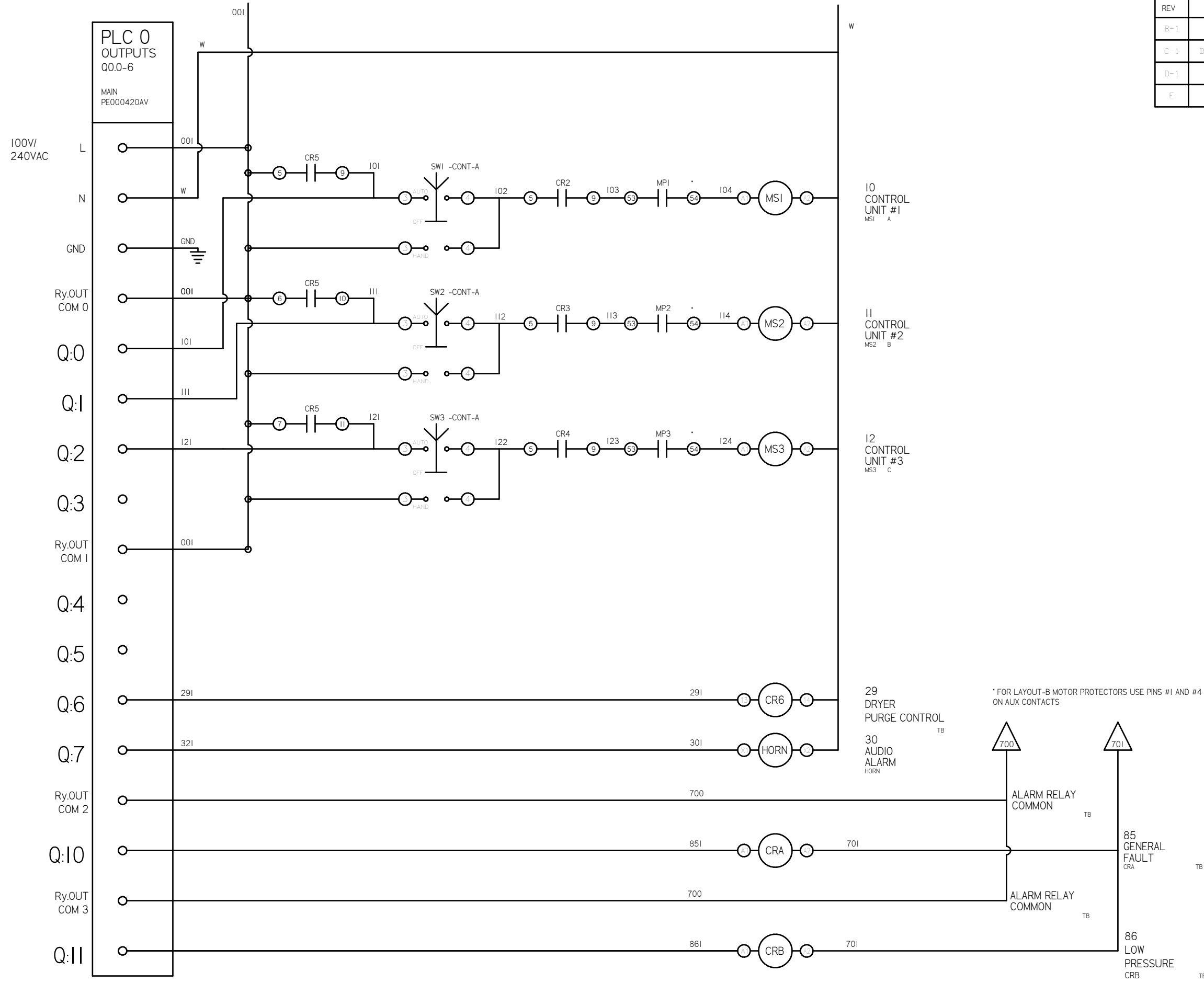
PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-LA316 W

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

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |



OPTIONAL:

| | |
|---------------------------------|-------------------------------------|
| SINGLE CYLINDER AND SCROLLPUMPS | <input checked="" type="checkbox"/> |
| DOUBLE-CYLINDER PUMPS | <input type="checkbox"/> |
| TRIPLE-CYLINDER PUMPS | <input type="checkbox"/> |

BACNET, WEBSVR, BACNET, WEBSVR



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

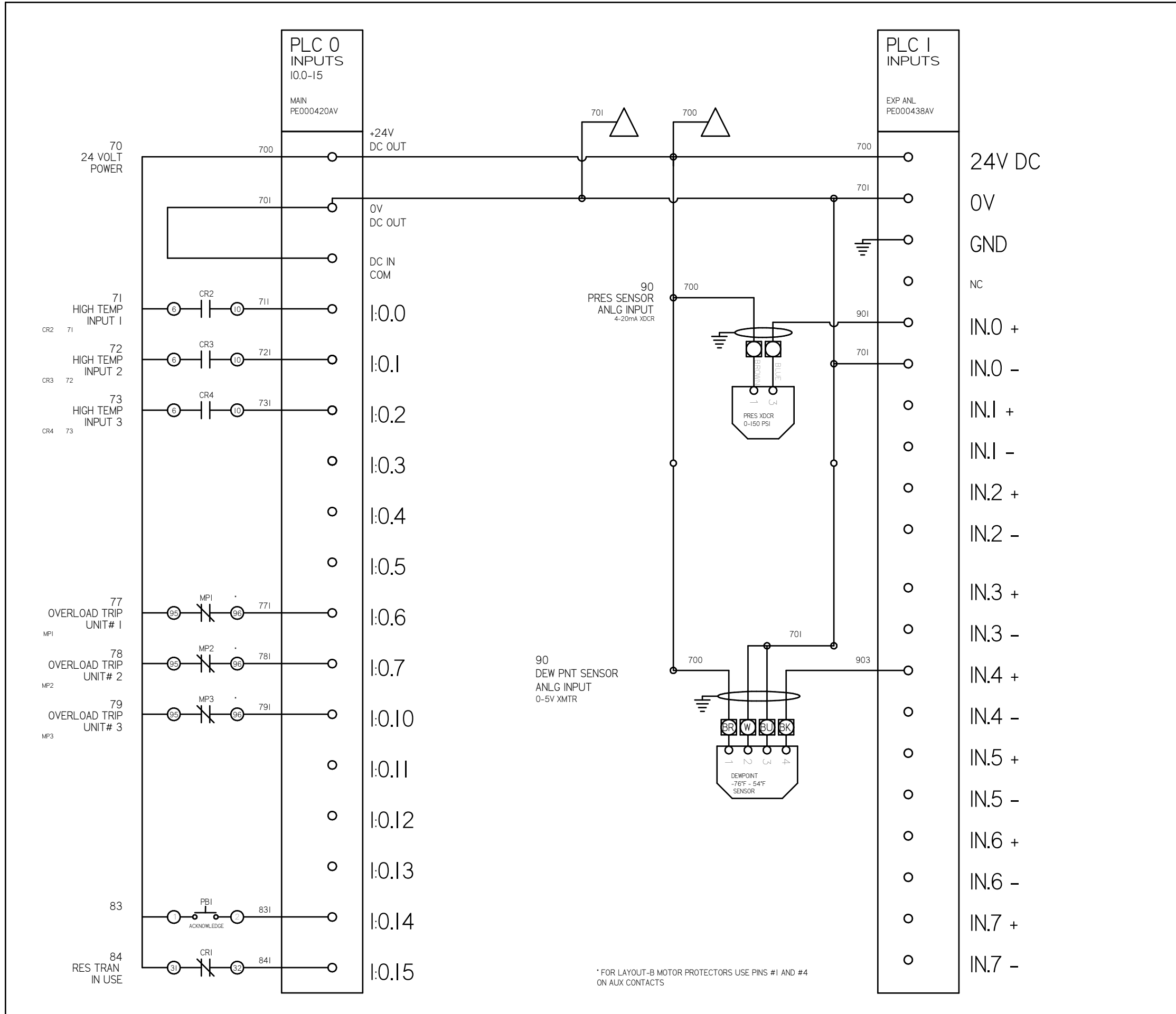
PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-LA316 W

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

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0165 | AKH | KMD |



| | | |
|------------------|---------------------------------|-------------------------------------|
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| | DOUBLE-CYLINDER PUMPS | <input type="checkbox"/> |
| BACNET, WEBSRVR, | TRIPLE-CYLINDER PUMPS | <input type="checkbox"/> |



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

PANEL TYPE
TRI LAB COMP
HMI, NFPA

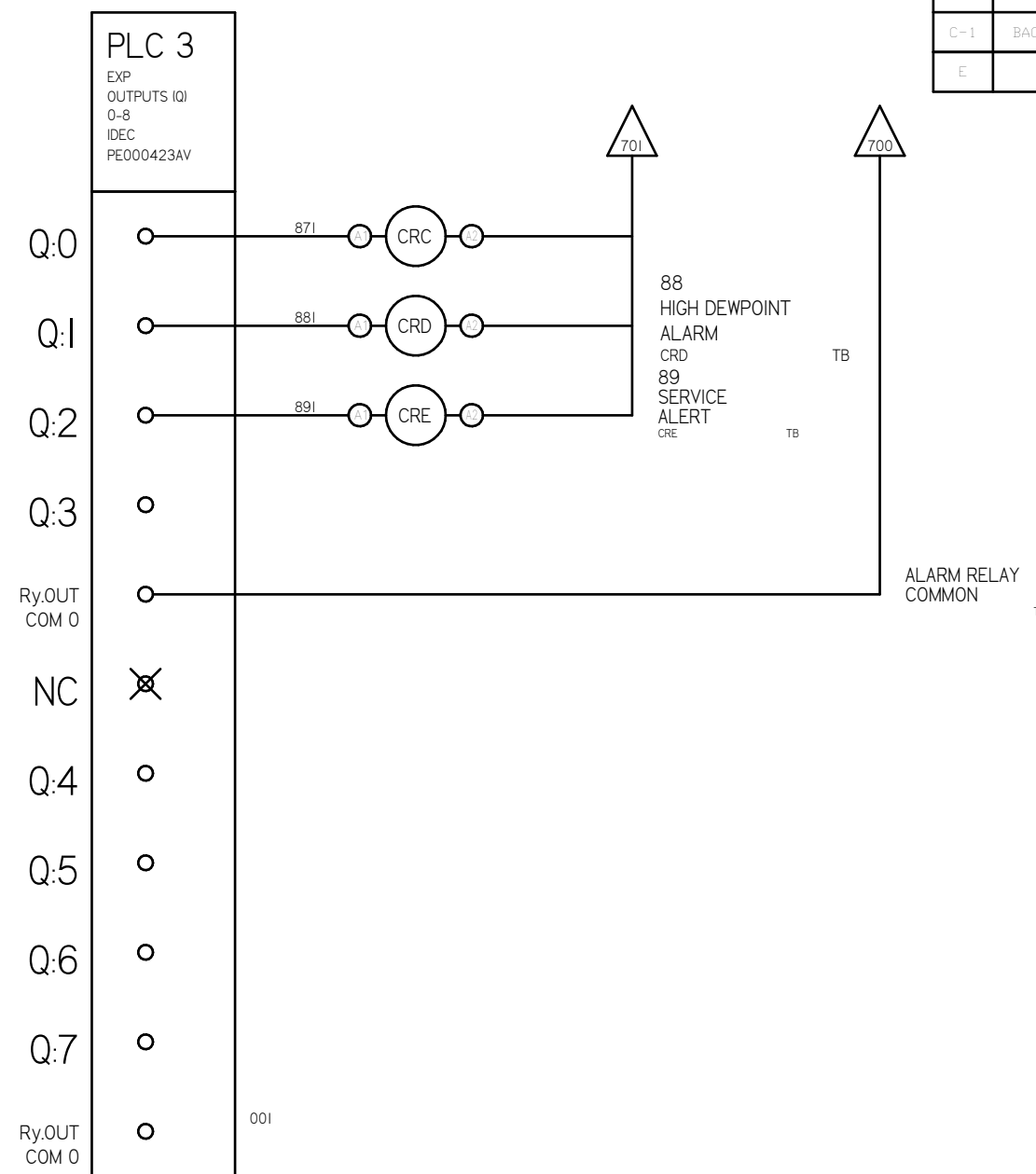
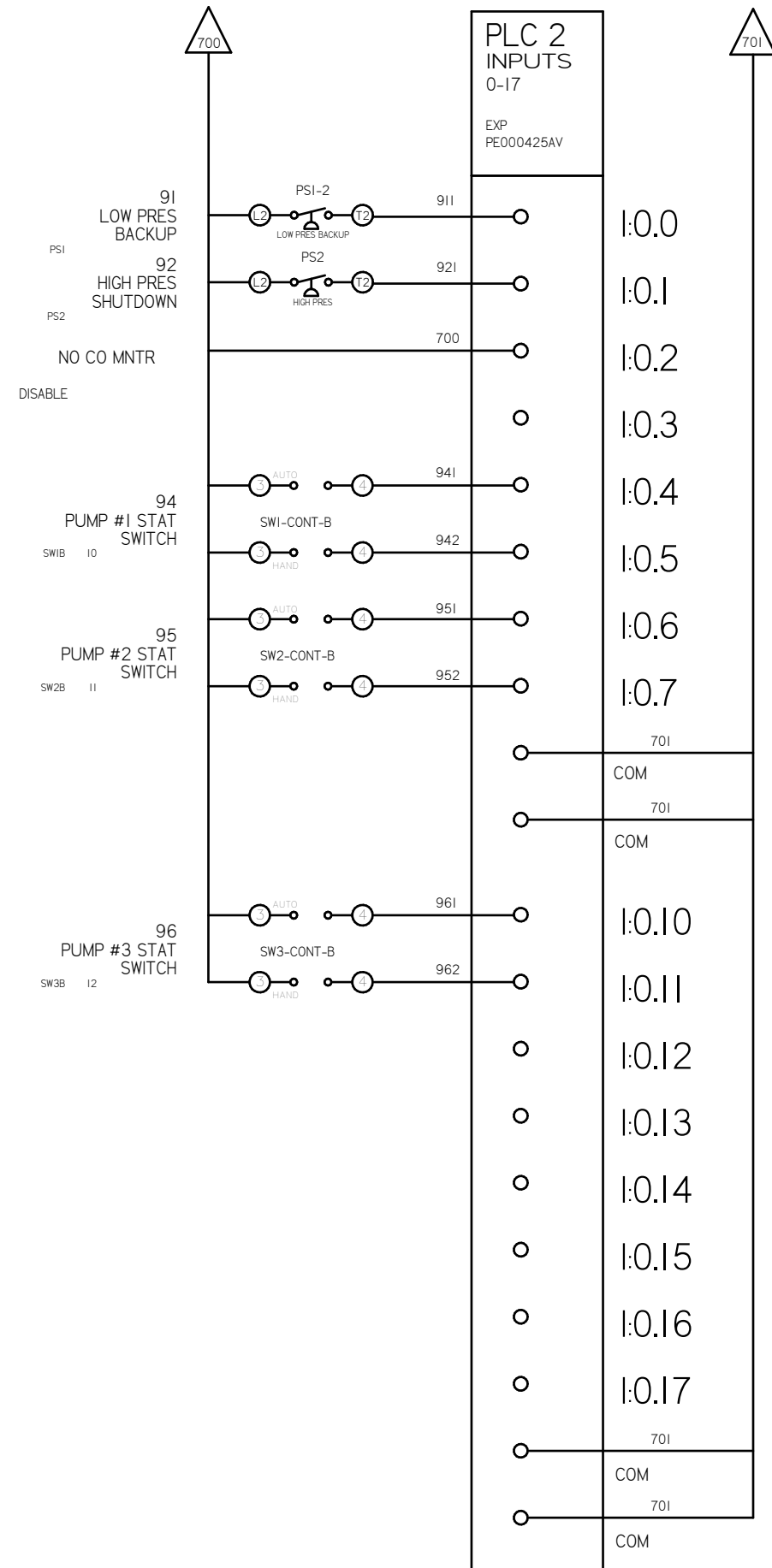
DWG. TYPE WIRING

DWG. NO.
PXMI-LA316 W

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

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

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |



| | | |
|-----------------|----------------------------------|-------------------------------------|
| OPTIONAL: | SINGLE CYLINDER AND SCROLL PUMPS | <input checked="" type="checkbox"/> |
| | DOUBLE-CYLINDER PUMPS | <input type="checkbox"/> |
| BACNET, WEBSVR, | TRIPLE-CYLINDER PUMPS | <input type="checkbox"/> |



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

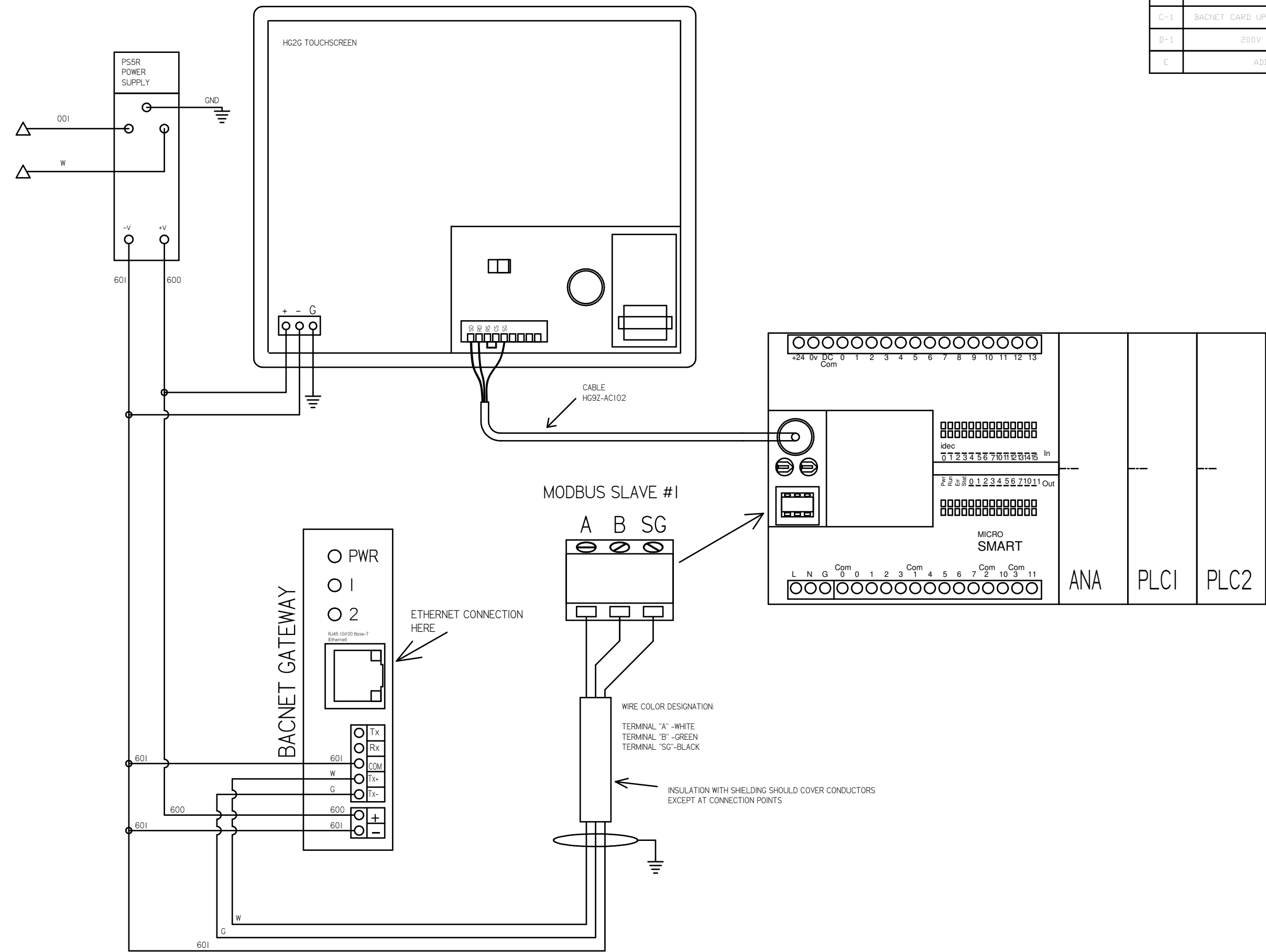
PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-LA316 W

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

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0165 | AKH | KMD |



OPTIONAL:
BACNET, WEBSVR,



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-LA316 W

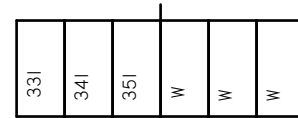
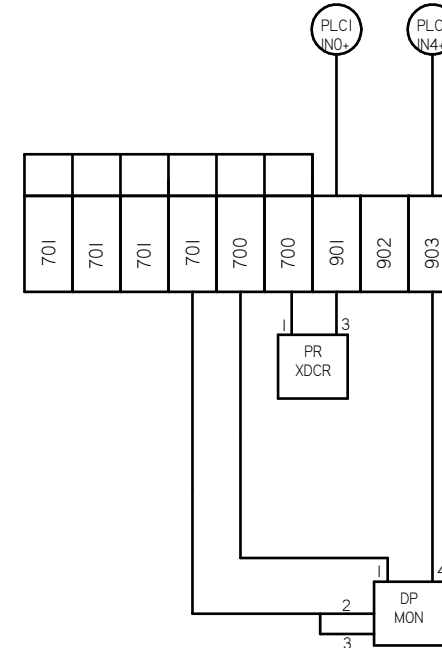
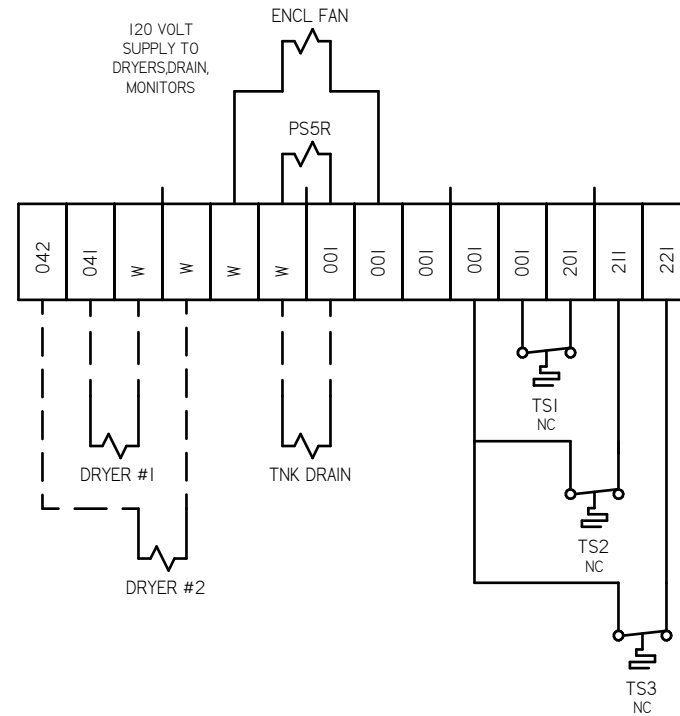
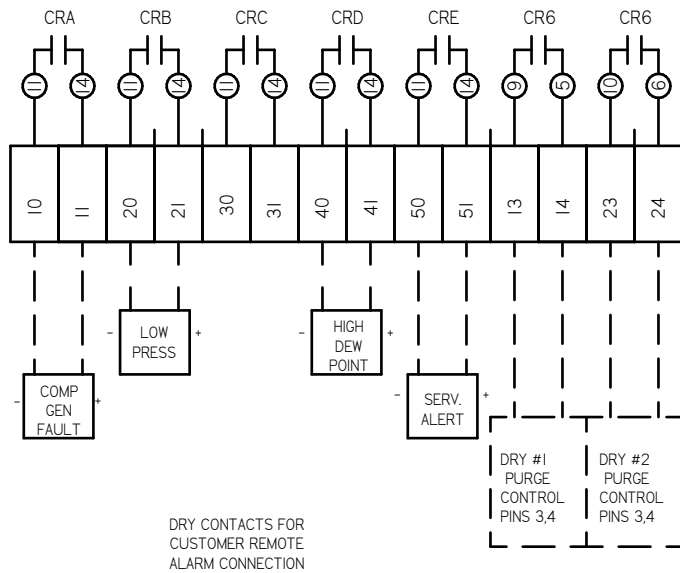
SHEET W-6 SIZE B

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0165 | AKH | KMD |

ASSEMBLY NOTE:

USE SHIELDED CABLE BETWEEN TERMINAL BLOCKS AND PLC. CONNECT GROUND LOOPS TO GROUND BLOCK. CABLE IS NOT TO BE ROUTED IN PROXIMITY (2") OR Routed IN WIRE TRAY OF ANY 3-PHASE POWER CONDUCTORS.

TERMINAL BLOCKS



FAN WIRING
SEE RUNGS 28-30 FOR DETAILS

FIELD WIRING NOTES:

1. PANEL GROUND MUST BE CONNECTED TO EARTH GROUND.
2. TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY.
3. FIELD WIRING INDICATED BY -----, WIRE TO BE COPPER RATED AT 75° C.
4. ALL ALARM DRY CONTACTS ARE CLOSED FOR NORMAL OPERATION AND OPEN IN ALARM.
5. DRY CONTACT RATING: 30V DC/2A (resistive load, inductive load L/R = 7 ms)
6. USE CAT-5 CABLE W/RJ45 CONNECTOR FOR ETHERNET CONNECTION TO COMMUNICATION NETWORK OR BAS SYSTEM

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: | SINGLE CYLINDER AND SCROLLPUMPS | <input checked="" type="checkbox"/> |
| | DOUBLE-CYLINDER PUMPS | <input type="checkbox"/> |
| BACNET, WEBSVR, | TRIPLE-CYLINDER PUMPS | <input type="checkbox"/> |



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-LA316 W

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

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 2/19/18 | PXEC0229 | PKG | AJL |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |

| 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 |
| PBMLA3165EAJ | 5 | 200V/3Ø | 15.3 | 47.9 | 80 | 60A | 80A |
| NOTE - ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE | | | | | | | |


NOTES:

- RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
200-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
- PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
- INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE WITH SHORT CIRCUIT PROTECTION FOR THIS ELECTRICAL ASSEMBLY. SEE TABLE 1 .
- ALL WIRES MUST BE LABELED ON BOTH ENDS
- TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
- △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.

FIELD WIRING NOTES ON PAGE W-7.

| WIRE TYPE TABLE | | | |
|-----------------|--------------|-----------|---------|
| VOLTAGE | WIRE NUMBERS | GAUGE | COLOR |
| 120 VAC | 01-699 | 16-18 AWG | RED/BLK |
| 0VAC | W | 16-18 AWG | WHT/BLK |
| 24VDC | 700-799 | 16-18 AWG | PURPLE |
| 0VDC | 701 | 16-18 AWG | PURPLE |
| GND | - | VARIES | GREEN |
| CUSTOMER SUPPLY | 01-99 | 16 AWG | YELLOW |

| TABLE 2 - CONTROL CIRCUIT PROTECTION | | | | | |
|--------------------------------------|------|----------|----------|----------|----------|
| FUSE TYPE | | 208 VOLT | 230 VOLT | 460 VOLT | 575 VOLT |
| FU1,2A | FNQR | 6A | 5A | 5A | 4A |
| FU1,2B | | | | | |
| FU3AB | FNM | 7A | 7A | 7A | 7A |

| | | |
|--|------------|----------------------|
| OPTIONAL: | | |
|  | | |
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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
| BFH | CHR | CHR |
| 03/12/12 | 03/12/12 | 03/12/12 |
| PANEL TYPE | | |
| COMPRESSOR DATA (ODP) 3PH TRIPLEX PANEL DATA | | |
| DWG. TYPE | | |
| MISC | | |
| DWG. NO. | | |
| DATA TABLE | | |
| SHEET | | SIZE |
| D-1 | | B |

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|-----------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 11/19/14 | PXEC0057 | DMS | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |

| 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) | 72AJ | 19.2 | 40.4 | 80 | 60 | 70 |
| | A2AJ | 26.5 | 55 | 110 | 80 | 100 |
| 230V (3Ø) | 73AJ | 17.3 | 36.6 | 80 | 60 | 70 |
| | A3AJ | 24 | 50 | 100 | 70 | 90 |
| 460V (3Ø) | 74AJ | 8.67 | 19.34 | 40 | 30 | 35 |
| | A4AJ | 12 | 26 | 50 | 35 | 45 |
| 380V (3Ø) 50HZ | 78AJ | 10.7 | 23.4 | 45 | 35 | 40 |
| | A8AJ | 14.5 | 31 | 60 | 45 | 60 |

OPTIONAL:

208V/230V/460V/380V



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | KMD | DMS |
| 11/19/14 | 11/19/14 | 11/19/14 |

PANEL TYPE
7.5/10 SCROLL DATA
TRIPLEX PANEL DATA

DWG. TYPE MISC

DWG. NO.
DATA TABLE

SHEET D-1
SIZE B

| VOLTAGE | WIRE NUMBERS | GAUGE | COLOR |
|-----------------|--------------|-----------|---------|
| 120 VAC | 01-699 | 16-18 AWG | RED/BLK |
| 0VAC | W | 16-18 AWG | WHT/BLK |
| 24VDC | 700-799 | 16-18 AWG | PURPLE |
| 0VDC | 701 | 16-18 AWG | PURPLE |
| GND | - | VARIES | GREEN |
| CUSTOMER SUPPLY | 01-99 | 16 AWG | YELLOW |

| FUSE TYPE | 208 VOLT | 230 VOLT | 460 VOLT | 575 VOLT |
|------------------|----------|----------|----------|----------|
| FU1,2A FU1,2B | FNQR 6A | 5A | 5A | 4A |
| FU3AB | FNM 7A | 7A | 7A | 7A |

| P/N | MOTOR FULL LOAD AMPS | TOTAL FULL LOAD AMPS | NON-TIME DELAY FUSE | TIME DELAY FUSE | INVERSE-TIME CIRCUIT BREAKER |
|--------|----------------------|----------------------|---------------------|-----------------|------------------------------|
| 02AJ | 4.1 | 14.3 | 25 | 20 | 25 |
| 12AJ | 4.5 | 15.5 | 25 | 20 | 25 |
| 22AJ | 6 | 20 | 35 | 25 | 30 |
| 32AJ | 8.5 | 27.5 | 45 | 35 | 45 |
| 52AJ | 14 | 44 | 80 | 60 | 70 |
| 72AJ | 20.5 | 63.5 | 110 | 80 | 100 |
| A2AJ * | 27.4 | 84.2 | 150 | 125 | 150 |
| F2AJ * | 41.1 | 125.3 | 225 | 175 | 200 |
| | | | | | |
| 03AJ | 3.6 | 12.8 | 20 | 20 | 20 |
| 13AJ | 4.4 | 15.2 | 25 | 20 | 25 |
| 23AJ | 5.8 | 19.4 | 35 | 25 | 30 |
| 33AJ | 7.7 | 25.1 | 45 | 35 | 40 |
| 53AJ | 12.7 | 40.1 | 70 | 50 | 60 |
| 73AJ | 18.5 | 57.5 | 100 | 80 | 90 |
| A3AJ | 24.8 | 76.4 | 150 | 100 | 125 |
| F3AJ * | 37.2 | 113.6 | 200 | 150 | 175 |
| | | | | | |
| 04AJ | 1.8 | 7.4 | 15 | 10 | 15 |
| 14AJ | 2.2 | 8.6 | 15 | 10 | 15 |
| 24AJ | 2.9 | 10.7 | 20 | 15 | 20 |
| 34AJ | 3.9 | 13.7 | 25 | 20 | 25 |
| 54AJ | 6.3 | 20.9 | 35 | 30 | 35 |
| 74AJ | 9.3 | 29.9 | 50 | 40 | 45 |
| A4AJ | 12.4 | 39.2 | 70 | 50 | 60 |
| F4AJ | 18.6 | 57.8 | 100 | 80 | 90 |
| | | | | | |
| 08AJ | | | | | |
| 18AJ | | | | | |
| 28AJ | 3.4 | 12.2 | 20 | 15 | 20 |
| 38AJ | 4.6 | 15.8 | 25 | 20 | 25 |
| 58AJ | 7.7 | 25.1 | 45 | 35 | 40 |
| 78AJ | 11.1 | 35.3 | 60 | 45 | 60 |
| A8AJ | 14.9 | 46.7 | 80 | 60 | 70 |
| F8AJ | 22.1 | 68.3 | 125 | 90 | 125 |
| | | | | | |
| 07AJ | 1.1 | 5.3 | 10 | 10 | 10 |
| 17AJ | | | | | |
| 27AJ | 2.3 | 8.9 | 15 | 15 | 15 |
| 37AJ | 3.1 | 11.3 | 20 | 15 | 20 |
| 57AJ | 5.1 | 17.3 | 30 | 25 | 30 |
| 77AJ | 6.9 | 22.7 | 40 | 30 | 35 |
| A7AJ | 9.9 | 31.7 | 60 | 40 | 50 |
| F7AJ | 14.9 | 46.7 | 80 | 60 | 70 |


- NOTES:
- RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
208-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
 - PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
 - INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE WITH SHORT CIRCUIT PROTECTION FOR THIS ELECTRICAL ASSEMBLY. SEE TABLE I.
 - ALL WIRES MUST BE LABELED ON BOTH ENDS
 - TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
 - △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.
- FIELD WIRING NOTES ON PAGE W-7.

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|-----------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 03/12/12 | 22545 | BFH | CHR |
| C-1 | ADDED 380/575V | 02/26/13 | PXEC0030 | BFH | CHR |
| D-1 | FORMAT UPDATE | 03/04/13 | PXEC0038 | BFH | CHR |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0165 | AKH | KMD |

| VOLTAGE | WIRE NUMBERS | GAUGE | COLOR |
|-----------------|--------------|-----------|---------|
| 120 VAC | 01-699 | 16-18 AWG | RED/BLK |
| 0VAC | W | 16-18 AWG | WHT/BLK |
| 24VDC | 700-799 | 16-18 AWG | PURPLE |
| 0VDC | 701 | 16-18 AWG | PURPLE |
| GND | - | VARIES | GREEN |
| CUSTOMER SUPPLY | 01-99 | 16 AWG | YELLOW |

| FUSE TYPE | 208 VOLT | 230 VOLT | 460 VOLT | 575 VOLT |
|-----------|----------|----------|----------|----------|
| FUI,2A | FNQR | 6A | 5A | 5A |
| FUI,2B | | | | 4A |
| FU3AB | FNM | 7A | 7A | 7A |

OPTIONAL:
208V-575V



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

PANEL TYPE
COMPRESSOR DATA TABLE
3PH TRIPLEX PANEL DATA

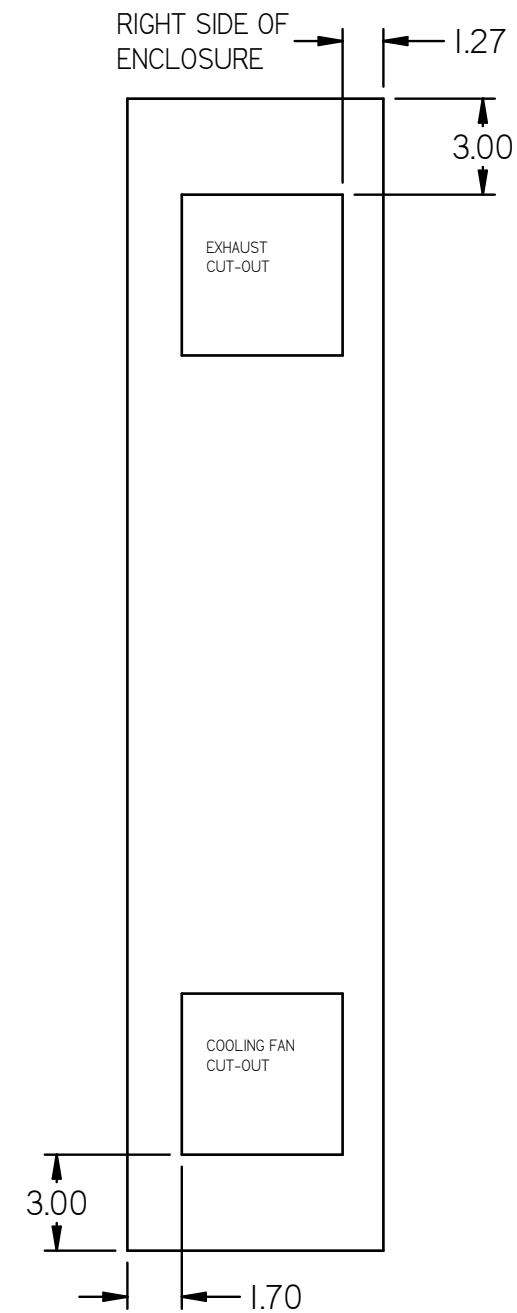
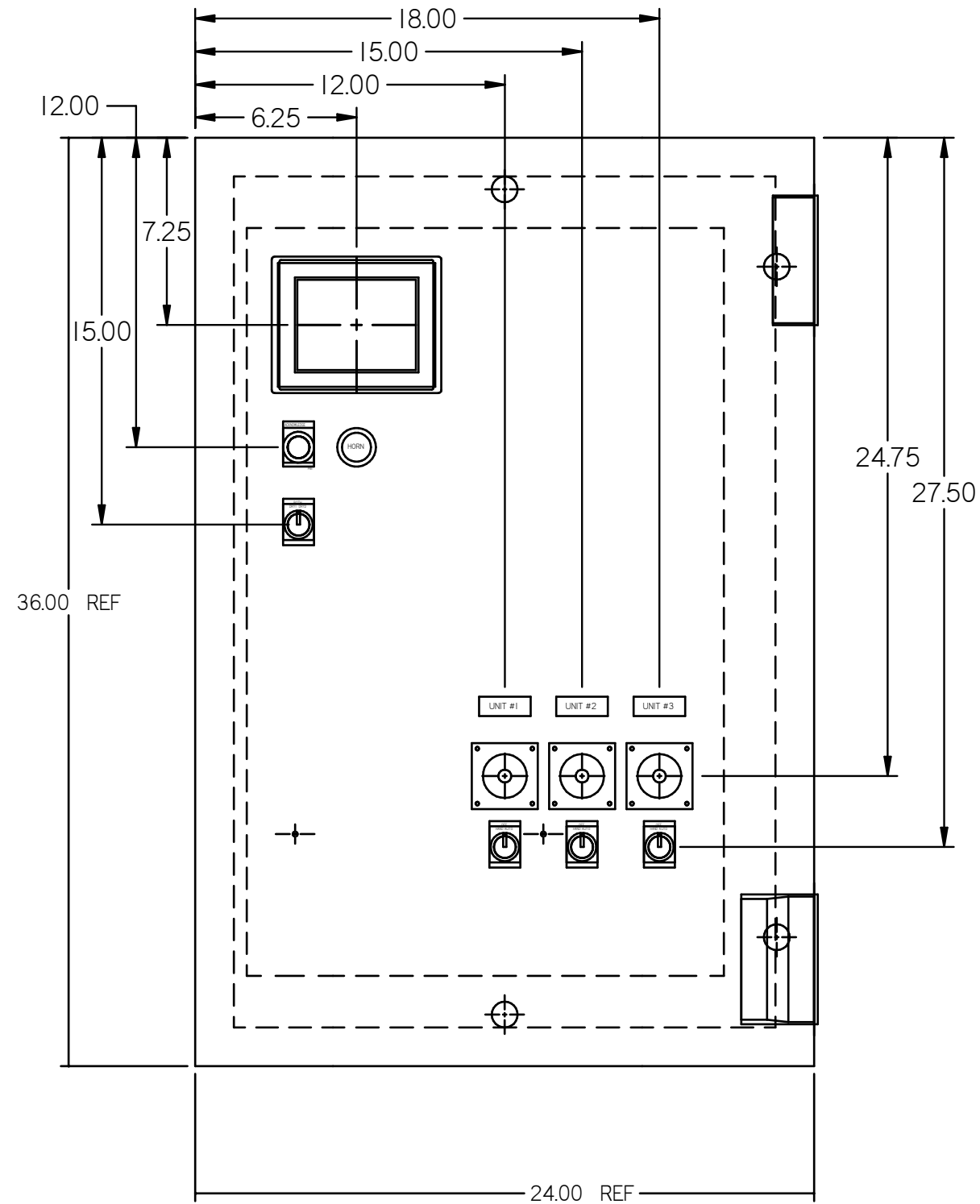
DWG. TYPE MISC

DWG. NO. DATA TABLE

| | |
|-------|------|
| SHEET | SIZE |
| D-1 | B |

TRIPLEX PANEL DATA

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |



OPTIONAL:



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

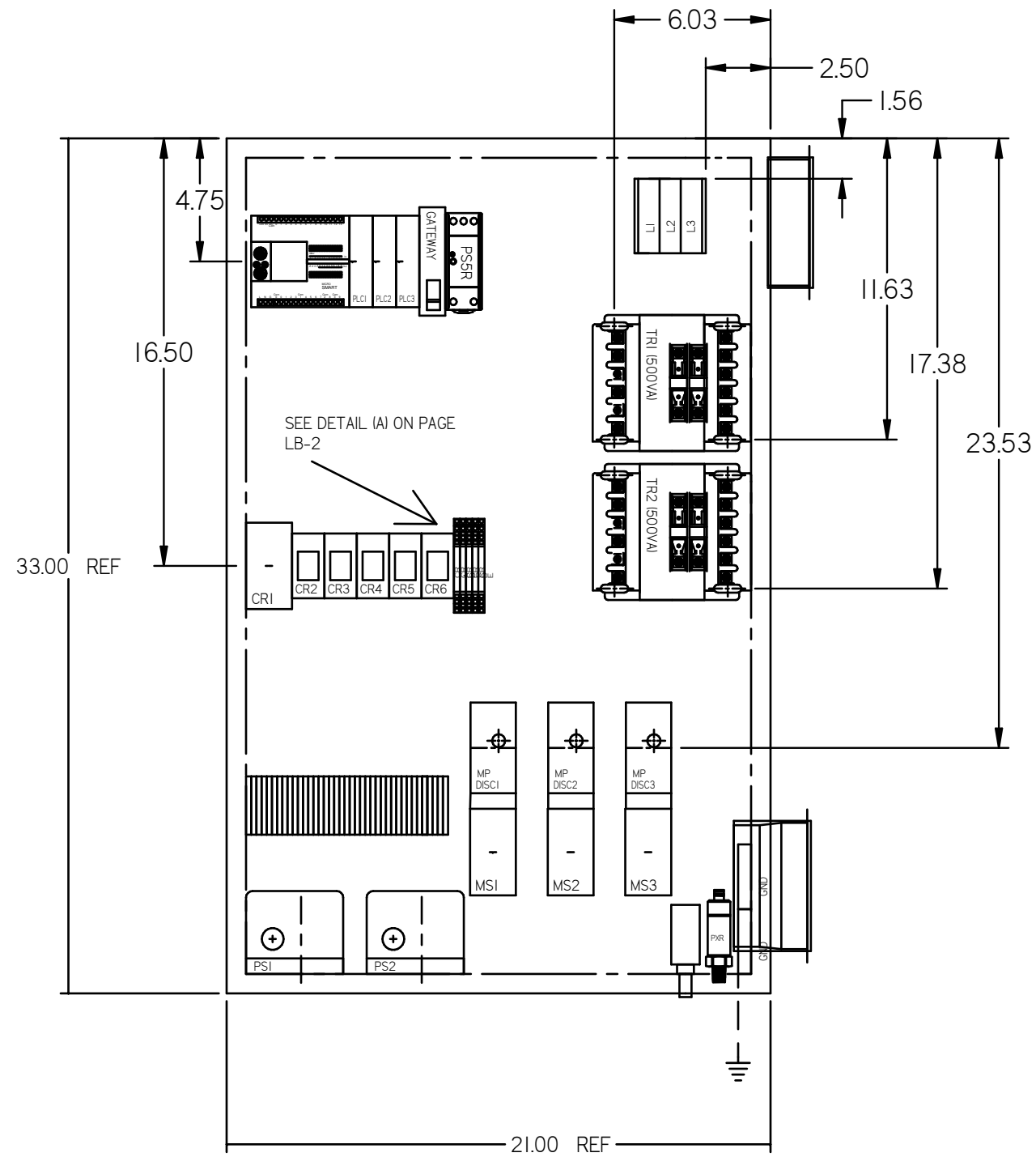
PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO.
PXMI-LA316

| SHEET | SIZE |
|-------|------|
| LC-1 | B |

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |



OPTIONAL:



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

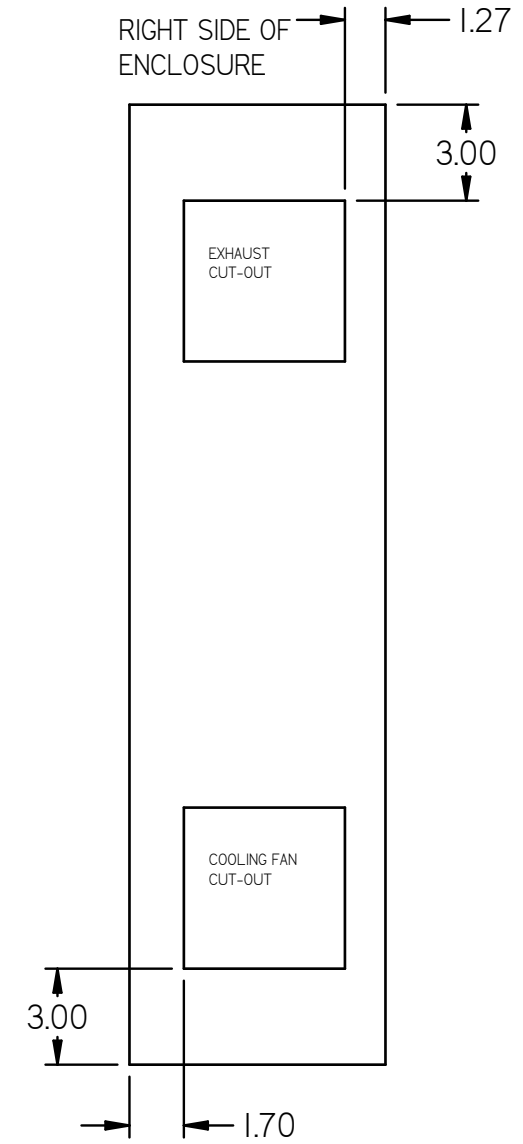
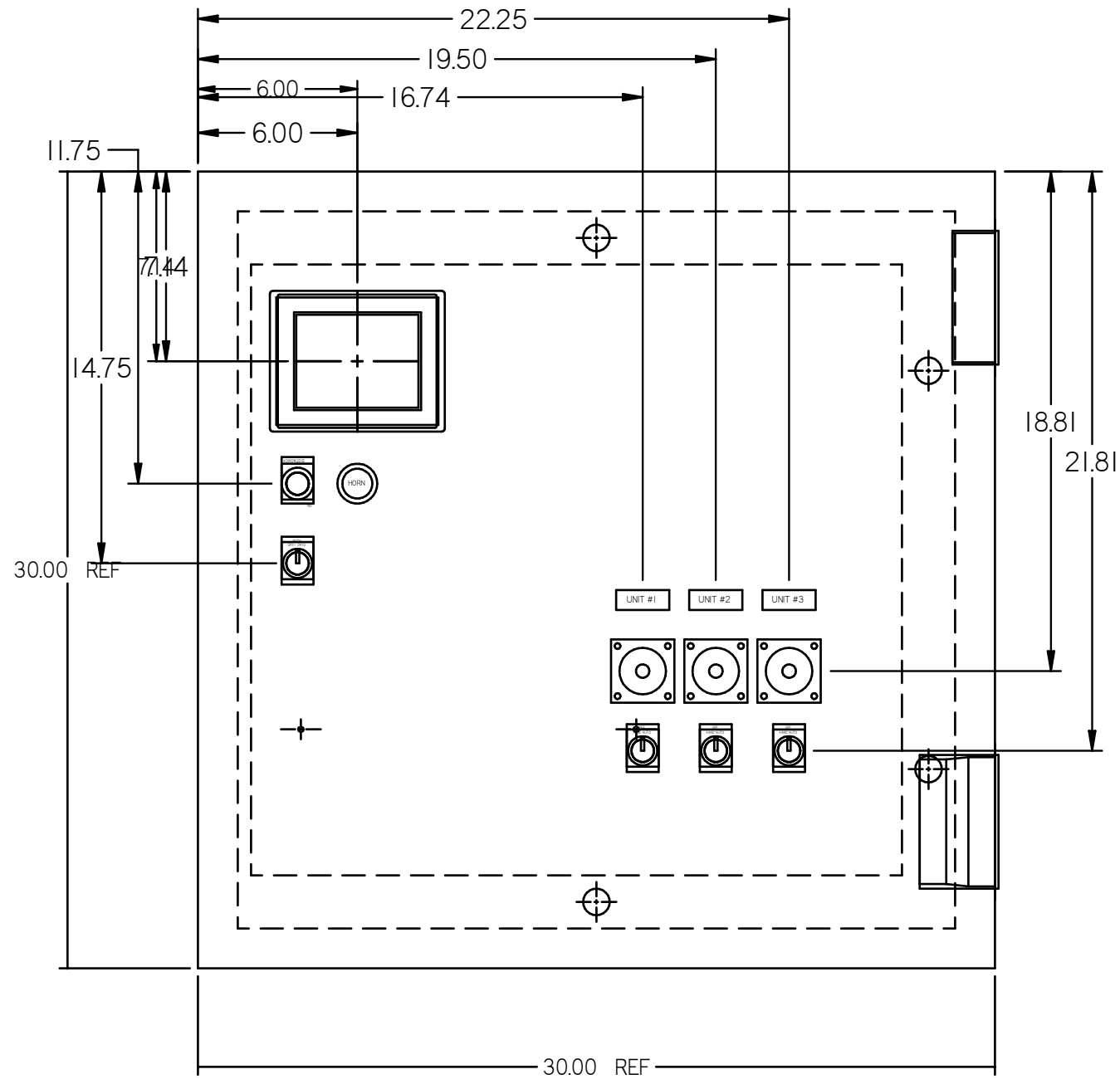
PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO. PXMI-LA316

| SHEET | SIZE |
|-------|------|
| LC-2 | B |

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |



| | | |
|-----------------|----------------------------------|-------------------------------------|
| OPTIONAL: | SINGLE CYLINDER AND SCROLL PUMPS | <input checked="" type="checkbox"/> |
| | DOUBLE-CYLINDER PUMPS | <input type="checkbox"/> |
| BACNET, WEBSVR, | TRIPLE-CYLINDER PUMPS | <input type="checkbox"/> |



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| | | |
|----------|------------|----------------------|
| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

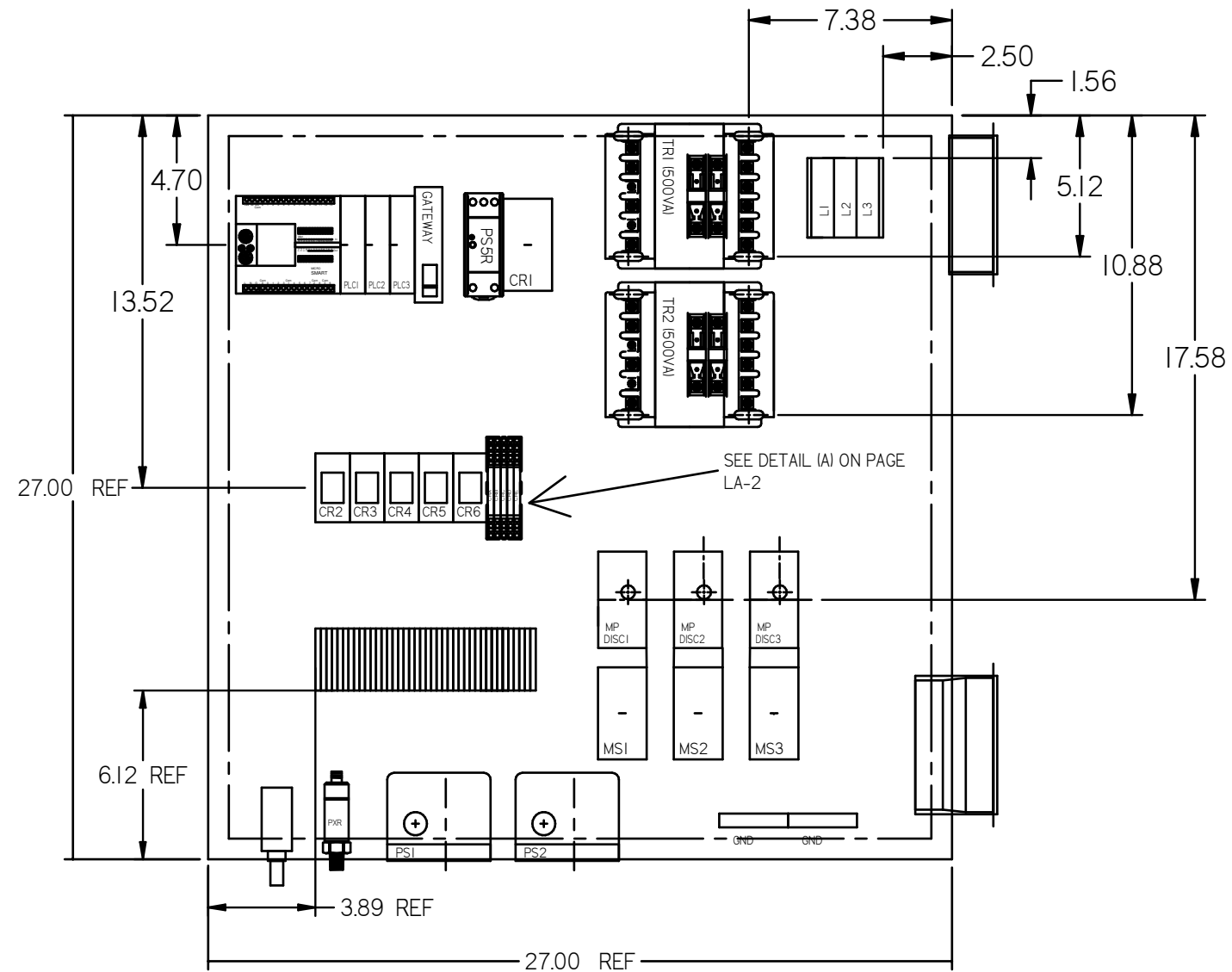
PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-LA316 W

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

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |



DETAIL (A)



| | | |
|-----------------|---------------------------------|-------------------------------------|
| OPTIONAL: | SINGLE CYLINDER AND SCROLLPUMPS | <input checked="" type="checkbox"/> |
| | DOUBLE-CYLINDER PUMPS | <input type="checkbox"/> |
| BACNET, WEBSVR, | TRIPLE-CYLINDER PUMPS | <input type="checkbox"/> |



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

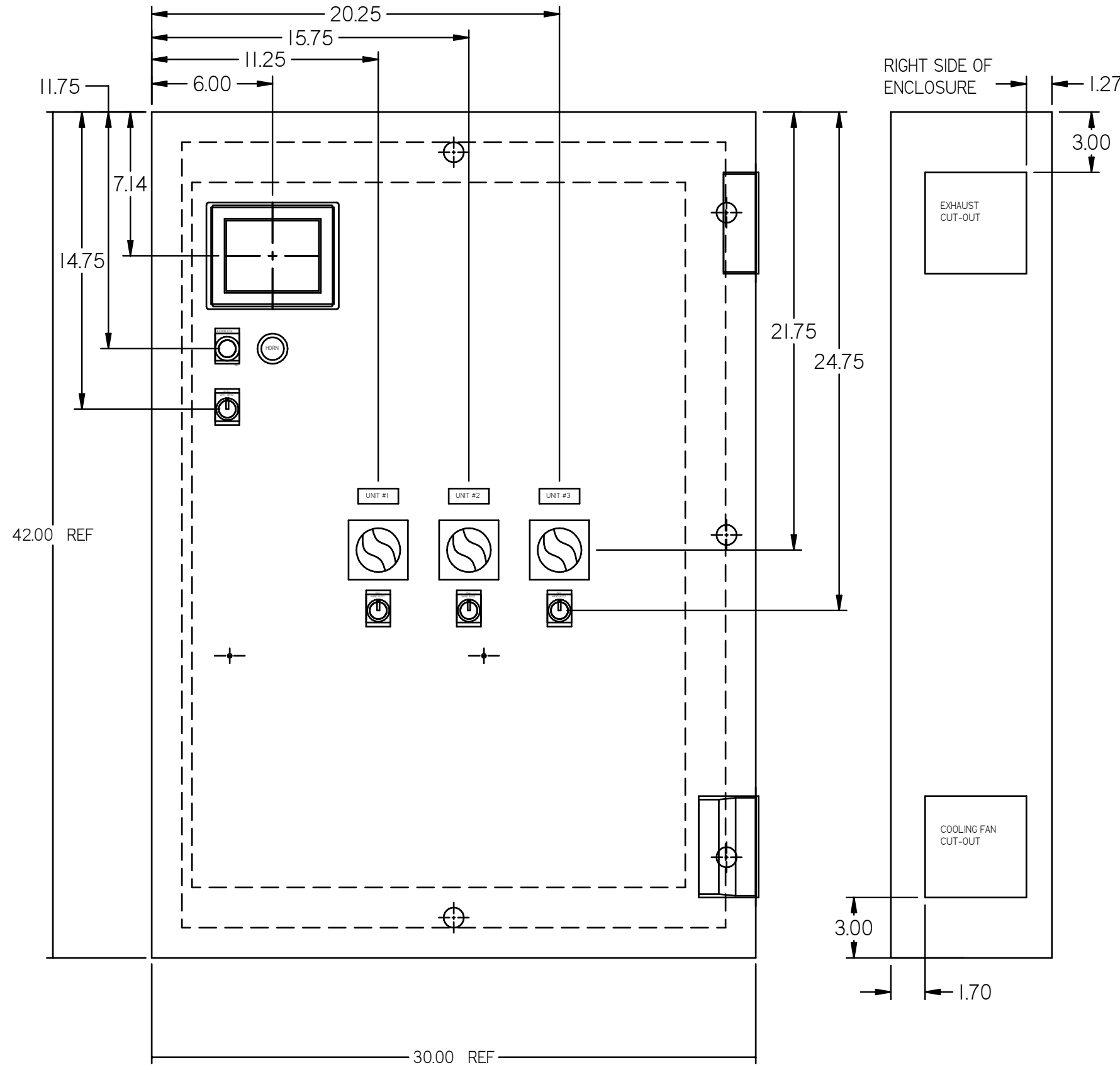
PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.
PXMI-LA316 W

| | |
|-------|------|
| SHEET | SIZE |
| LA-2 | B |

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0165 | AKH | KMD |



| | | |
|-----------------|---------------------------------|-------------------------------------|
| OPTIONAL: | SINGLE CYLINDER AND SCROLLPUMPS | <input checked="" type="checkbox"/> |
| | DOUBLE-CYLINDER PUMPS | <input type="checkbox"/> |
| BACNET, WEBSVR, | TRIPLE-CYLINDER PUMPS | <input type="checkbox"/> |



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

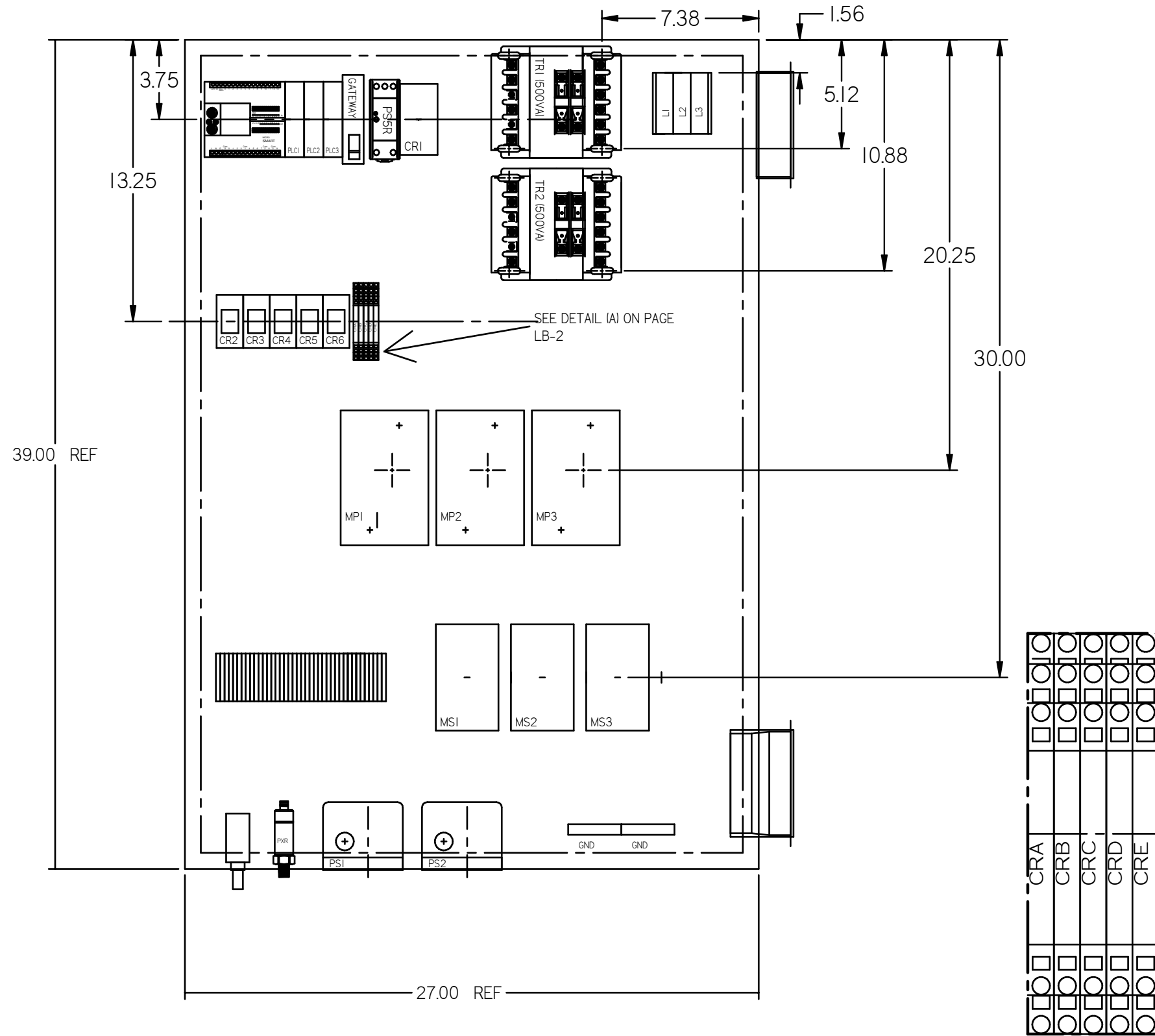
PANEL TYPE
TRI LAB COMP
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-LA316 W

| | |
|------------|--------|
| SHEET LB-1 | SIZE B |
|------------|--------|

| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 07/31/13 | PXEC0029 | DMS | GES |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |



| | | |
|------------------|---------------------------------|-------------------------------------|
| OPTIONAL: | SINGLE CYLINDER AND SCROLLPUMPS | <input checked="" type="checkbox"/> |
| | DOUBLE-CYLINDER PUMPS | <input type="checkbox"/> |
| BACNET, WEBSRVR, | TRIPLE-CYLINDER PUMPS | <input type="checkbox"/> |



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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| DMS | GES | DMS |
| 07/31/13 | 07/31/13 | 07/31/13 |

PANEL TYPE
 TRI LAB COMP
 HMI, NFPA

DWG. TYPE
 WIRING

DWG. NO.
 PXMI-A316 W

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


| REV | REVISION | DATE | ECN | NAME | CHKD |
|-----|---|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 2/19/18 | PXEC0229 | PKG | AJL |
| C-1 | BACNET CARD UPDATE ADD ISOLATION RELAYS | 09/10/15 | PXEC0110 | AJL | KMD |
| D-1 | 200V DATA SHEET ADDED | 4/5/18 | PXEC0229 | JPG | KMD |
| E | ADDED FAN WIRING | 8/27/18 | PXEC0169 | AKH | KMD |

| 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 |
| PBMILA31654AJ | 5 | 460V/3Ø | 6.49 | 21.5 | 35 | 30A | 35A |
| NOTE- ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE | | | | | | | |

- NOTES:
- RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
200-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
 - PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
 - INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE WITH SHORT CIRCUIT PROTECTION FOR THIS ELECTRICAL ASSEMBLY. SEE TABLE I .
 - ALL WIRES MUST BE LABELED ON BOTH ENDS
 - TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
 - △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.
- FIELD WIRING NOTES ON PAGE W-7.

| WIRE TYPE TABLE | | | |
|-----------------|--------------|-----------|---------|
| VOLTAGE | WIRE NUMBERS | GAUGE | COLOR |
| 120 VAC | 01-699 | 16-18 AWG | RED/BLK |
| 0VAC | W | 16-18 AWG | WHT/BLK |
| 24VDC | 700-799 | 16-18 AWG | PURPLE |
| 0VDC | 701 | 16-18 AWG | PURPLE |
| GND | - | VARIES | GREEN |
| CUSTOMER SUPPLY | 01-99 | 16 AWG | YELLOW |

| TABLE 2 - CONTROL CIRCUIT PROTECTION | | | | | |
|--------------------------------------|------|----------|----------|----------|----------|
| FUSE TYPE | | 208 VOLT | 230 VOLT | 460 VOLT | 575 VOLT |
| FU1,2A | FNQR | 6A | 5A | 5A | 4A |
| FU1,2B | | | | | |
| FU3A,B | FNM | 7A | 7A | 7A | 7A |

| | | |
|---|------------|----------------------|
| OPTIONAL: | | |
|  | | |
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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
| BFH | CHR | CHR |
| 03/12/12 | 03/12/12 | 03/12/12 |
| PANEL TYPE | | |
| COMPRESSOR DATA (TEFC) 3PH TRIPLEX PANEL DATA | | |
| DWG. TYPE | | |
| MISC | | |
| DWG. NO. | | |
| DATA TABLE | | |
| SHEET | | SIZE |
| D-1 | | B |