

A  
POWER  
UNIT #1  
MP1 10

UNIT POWER DATA  
SEE DATA TABLE

B  
POWER  
UNIT #2  
MP2 11

C  
POWER  
UNIT #3  
MP3 12

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 WITH  
SHORT CIRCUIT PROTECTION FOR THIS ELECTRICAL ASSEMBLY.  
SEE TABLE 1 FOR REQUIREMENTS.
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. INSTALLER TO UTILIZE PHYSICAL BARRIERS PROVIDED OR  
INSTALL ADDITIONAL BARRIES TO MAINTAIN SEPARATION OF  
CIRCUITS FOR FIELD WIRING OF CLASS-1 AND CLASS-2 CIRCUIT.

OPTIONAL:

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|             |               |                         |
|-------------|---------------|-------------------------|
| DRAWN<br>BY | CHECKED<br>BY | ENGINEERING<br>APPROVAL |
| SEK         | JRD           | JRD                     |
| 03/18/25    | 01/16/25      | 01/16/25                |

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSVR, NFPA, SOFT START

|           |        |
|-----------|--------|
| DWG. TYPE | WIRING |
|-----------|--------|

DWG. NO.

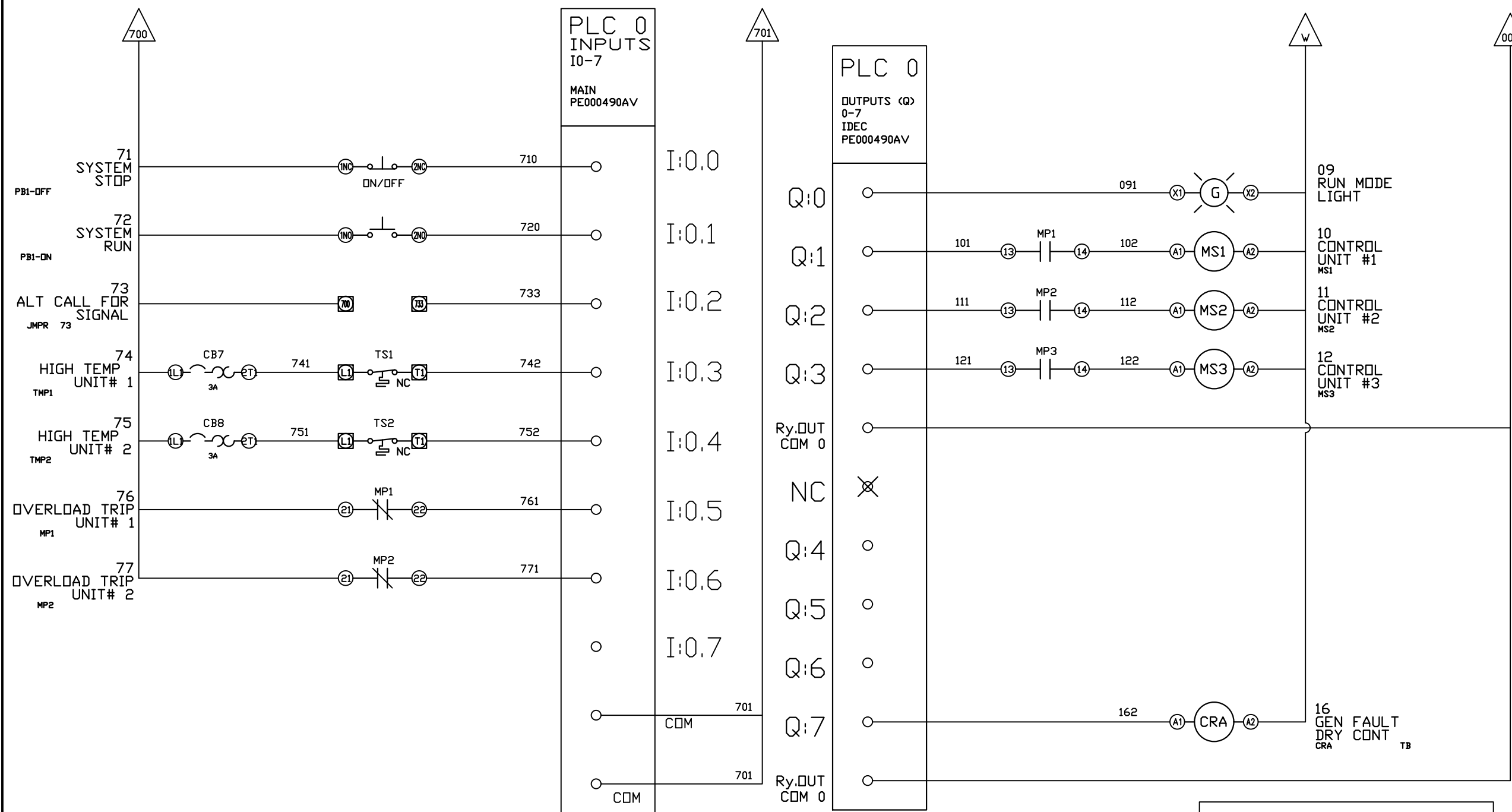
PBEIS-369

|           |      |
|-----------|------|
| SHEET     | SIZE |
| W-1       | B    |
| PBEIS-369 |      |

| CONTROL CIRCUIT PROTECTION - 500VA                   |            |                     |             |                    |             |
|------------------------------------------------------|------------|---------------------|-------------|--------------------|-------------|
|                                                      | FU<br>TYPE | 208<br>/200<br>VOLT | 230<br>VOLT | 460<br>380<br>VOLT | 575<br>VOLT |
| FU1&2                                                | FNQR       | 6A                  | 5A          | 5A                 | 4A          |
| FU3                                                  | FNM        | 7A                  | 7A          | 7A                 | 7A          |
| SEE CONTROL TRANSFORMER INSTRUCTIONS FOR CONNECTIONS |            |                     |             |                    |             |

| VOLTAGE         | WIRE NUMBERS | GAUGE    | COLOR   |
|-----------------|--------------|----------|---------|
| 120VAC          | 001-599      | 16-18AWG | RED/BLK |
| 0VAC            | W            | 16-18AWG | WHT/BLK |
| 24VDC           | 600-999      | 16-18AWG | PURPLE  |
| 0VDC            | 701          | 16-18AWG | PURPLE  |
| GND             | -            | VARIES   | GREEN   |
| CUSTOMER SUPPLY | 01-99        | 16-18AWG | YELLOW  |

| REV | REVISION              | DATE     | ECN      | NAME | CHKD |
|-----|-----------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 03/18/25 | PXEC0667 | SEK  | JRD  |



| WIRE TYPE TABLE |              |          |         |
|-----------------|--------------|----------|---------|
| VOLTAGE         | WIRE NUMBERS | GAUGE    | COLOR   |
| 120VAC          | 001-599      | 16-18AWG | RED/BLK |
| 0VAC            | W            | 16-18AWG | WHT/BLK |
| 24VDC           | 600-999      | 16-18AWG | PURPLE  |
| 0VDC            | 701          | 16-18AWG | PURPLE  |
| GND             | -            | VARIES   | GREEN   |
| CUSTOMER SUPPLY | 01-99        | 16-18AWG | YELLOW  |

OPTIONAL:

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|          |            |                      |
|----------|------------|----------------------|
| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
| SEK      | JRD        | JRD                  |
| 03/18/25 | 01/16/25   | 01/16/25             |

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSVR, NFPA, SOFT START

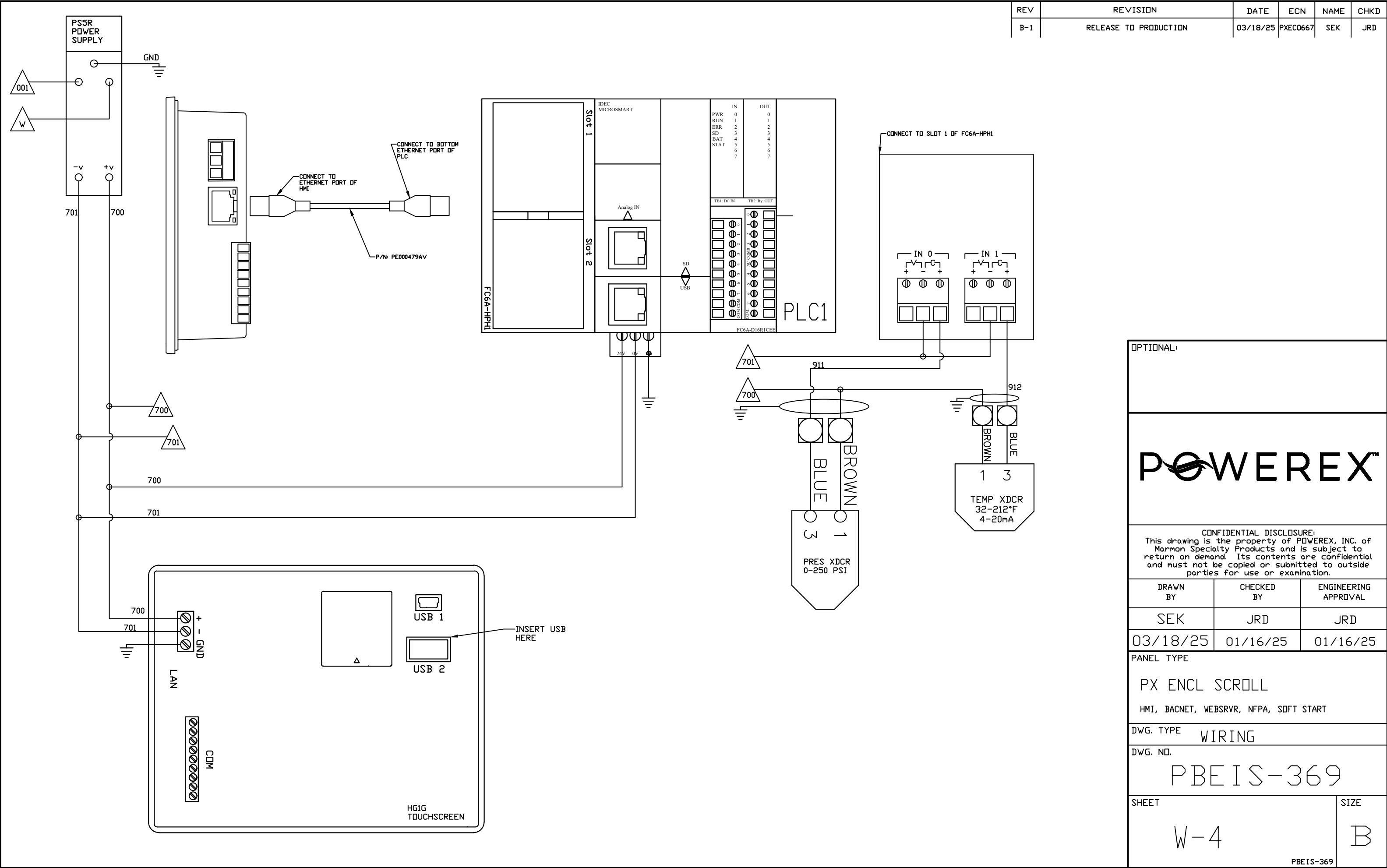
DWG. TYPE WIRING

DWG. NO. PBEIS-369

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

PBEIS-369





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| DRAWN BY | CHECKED BY | ENGINEERING APPROVAL |
|----------|------------|----------------------|
| SEK      | JRD        | JRD                  |
| 03/18/25 | 01/16/25   | 01/16/25             |

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSVR, NFPA, SOFT START

DWG. TYPE

WIRING

DWG. NO.

PBEIS-369

SHEET

W-4

SIZE

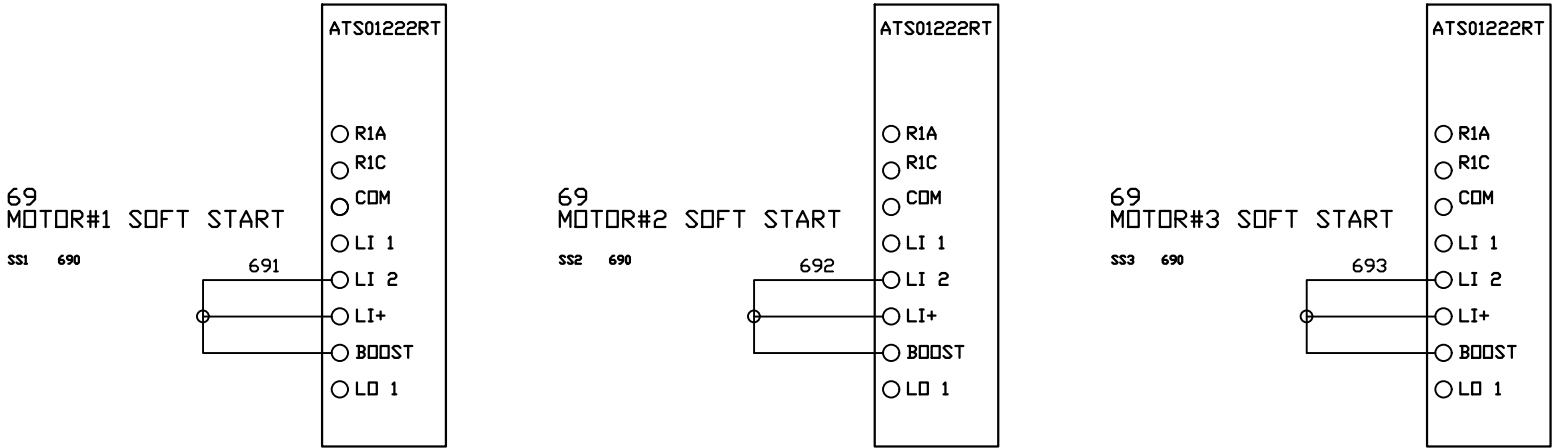
B

PBEIS-369

SET START TIME TO 3-SEC (B)

SET INITIAL VOLT SETTING TO 67% (D)

SET STOP TIME TO 60 SEC (C)



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|-------------|---------------|-------------------------|
| SEK         | JRD           | JRD                     |
| 03/18/25    | 01/16/25      | 01/16/25                |

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSVR, NFPA, SOFT START

DWG. TYPE WIRING

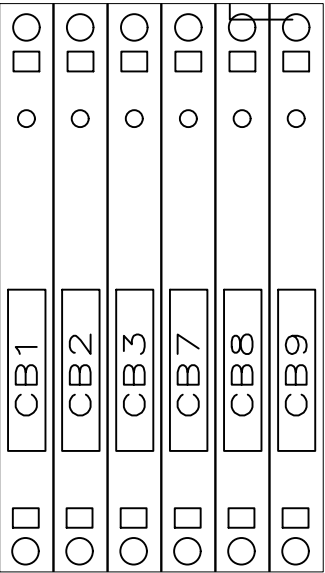
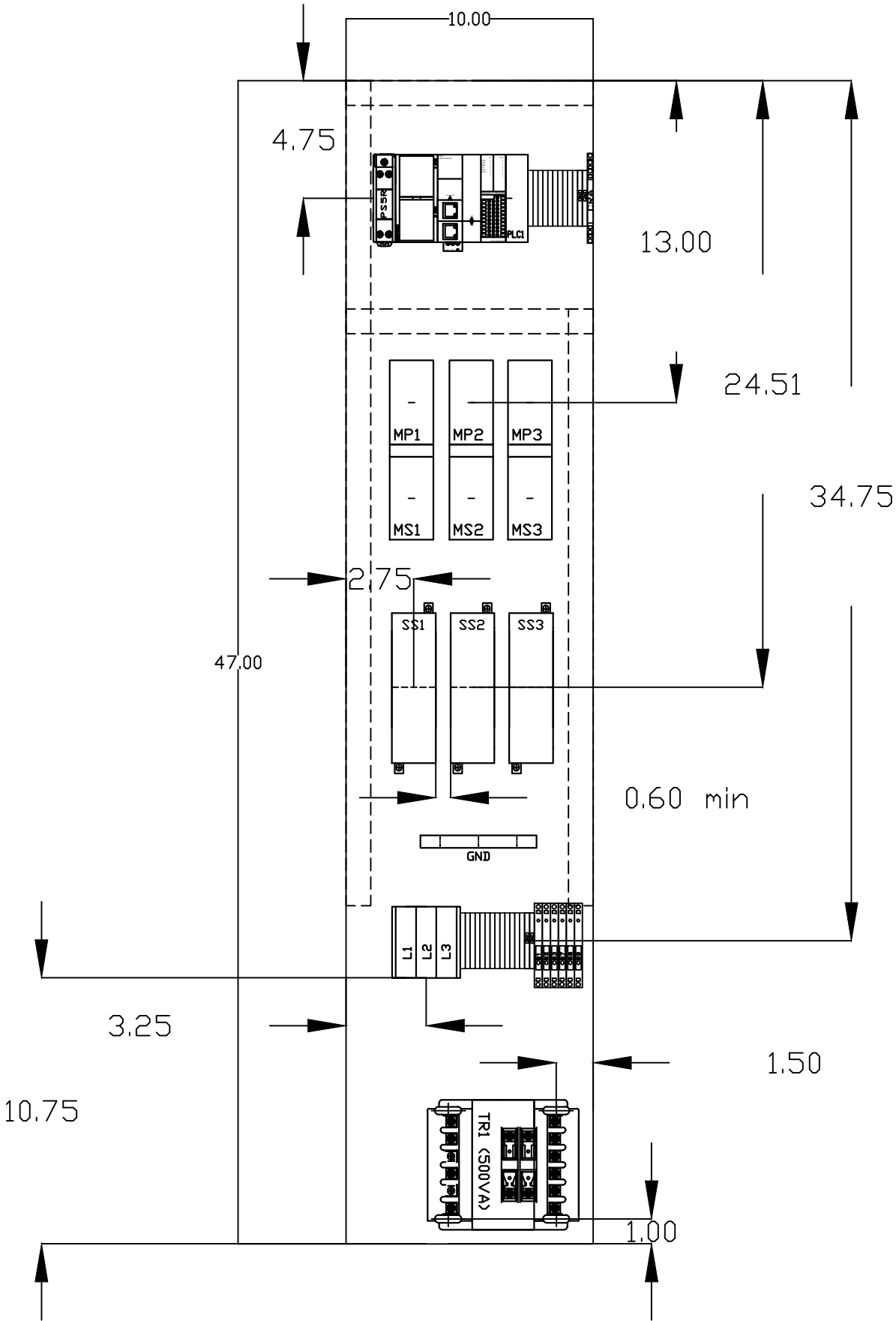
DWG. NO.

PBEIS-369

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

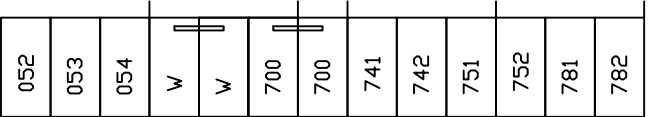
| REV | REVISION              | DATE     | ECN      | NAME | CHKD |
|-----|-----------------------|----------|----------|------|------|
| B-1 | RELEASE TO PRODUCTION | 03/18/25 | PXEC0667 | SEK  | JRD  |

FOR ELECTRICAL ISOLATION OF PUMPS 1-3  
TURN OFF CIRCUIT BREAKERS #1 ,2 3, 7, 8,  
AND 9. TURN OFF MP1, MP2, AND MP3.  
THEN PLACE LOCK OR TAG ON EACH DEVICE.



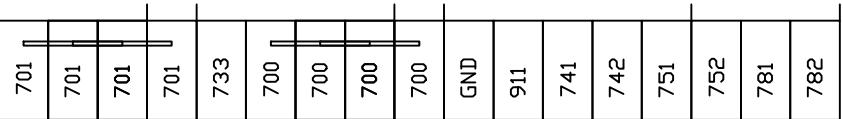
FIELD LOCATED TERMINAL BLOCKS

SIDE 1 PUMPS TEMP SWITCH  
AND FAN CONNECTIONS



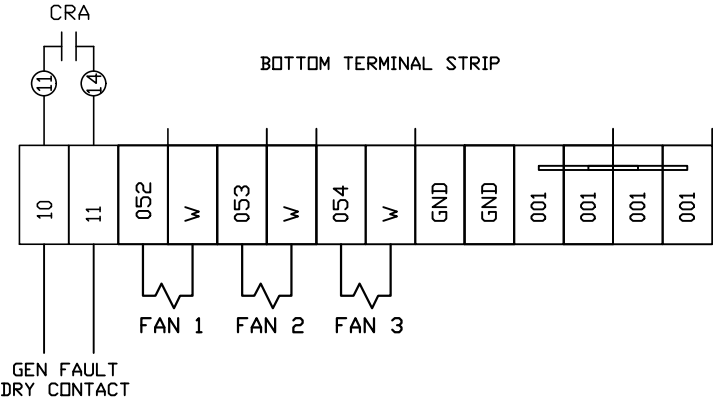
CONTROL PANEL TERMINAL BLOCKS

TOP TERMINAL STRIP



EXTERNAL  
CONTROL  
CONNECTION  
(WHEN ENABLED)

BOTTOM TERMINAL STRIP



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|-------------|---------------|-------------------------|
| SEK         | JRD           | JRD                     |
| 03/18/25    | 01/16/25      | 01/16/25                |

PANEL TYPE  
PX ENCL SCROLL  
HMI, BACNET, WEBSVR, NFPA, SOFT START

DWG. TYPE LAYOUT

DWG. NO. PBEIS-369

SHEET LA-1  
SIZE B



|     |                       |          |          |      |      |
|-----|-----------------------|----------|----------|------|------|
| REV | REVISION              | DATE     | ECN      | NAME | CHKD |
| B-1 | RELEASE TO PRODUCTION | 03/18/25 | PXEC0667 | SEK  | JRD  |

TABLE 1

| PANEL DATA 3Ø – 60 Hz<br>500VA CONTROL CIRCUIT                                                |                    |                     |                              |                           | (B) BRANCH CIRCUIT PROTECTION –<br>PROVIDED BY INSTALLER |                    |                                    |
|-----------------------------------------------------------------------------------------------|--------------------|---------------------|------------------------------|---------------------------|----------------------------------------------------------|--------------------|------------------------------------|
| PANEL<br>PART NUMBER                                                                          | MOTOR SIZE<br>EACH | (A) POWER<br>(V/PH) | (A) MOTOR LOAD<br>EACH (FLA) | PANEL LOAD<br>TOTAL (FLA) | NONTIME<br>DELAY FUSE                                    | TIME-DELAY<br>FUSE | INVERSE-TIME<br>CIRCUIT<br>BREAKER |
| PBEIS369A2AJ                                                                                  | 10                 | 208V/3Ø             | 25.4                         | 78.6                      | 150A                                                     | 100A               | 125A                               |
| PBEIS369A3AJ                                                                                  | 10                 | 230V/3Ø             | 23.7                         | 73.3                      | 125A                                                     | 100A               | 110A                               |
| PBEIS369A4AJ                                                                                  | 10                 | 460V/3Ø             | 11.9                         | 36.8                      | 70A                                                      | 50A                | 60A                                |
| NOTE– ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED<br>115% OF MOTOR NAMEPLATE FLA VALUE |                    |                     |                              |                           |                                                          |                    |                                    |

TABLE 1

| PANEL DATA 3Ø – 60 Hz<br>500VA CONTROL CIRCUIT                                                |                    |                     |                              |                           | (B) BRANCH CIRCUIT PROTECTION –<br>PROVIDED BY INSTALLER |                    |                                    |
|-----------------------------------------------------------------------------------------------|--------------------|---------------------|------------------------------|---------------------------|----------------------------------------------------------|--------------------|------------------------------------|
| PANEL<br>PART NUMBER                                                                          | MOTOR SIZE<br>EACH | (A) POWER<br>(V/PH) | (A) MOTOR LOAD<br>EACH (FLA) | PANEL LOAD<br>TOTAL (FLA) | NONTIME<br>DELAY FUSE                                    | TIME-DELAY<br>FUSE | INVERSE-TIME<br>CIRCUIT<br>BREAKER |
| PBEIS36972AJ                                                                                  | 7.5                | 208V/3Ø             | 19.2                         | 60.0                      | 100A                                                     | 80A                | 90A                                |
| PBEIS36973AJ                                                                                  | 7.5                | 230V/3Ø             | 17.7                         | 55.3                      | 100A                                                     | 70A                | 90A                                |
| PBEIS36974AJ                                                                                  | 7.5                | 460V/3Ø             | 8.87                         | 27.7                      | 50A                                                      | 35A                | 45A                                |
| NOTE– ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED<br>115% OF MOTOR NAMEPLATE FLA VALUE |                    |                     |                              |                           |                                                          |                    |                                    |

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| SEK         | JRD           | JRD                     |
| 03/18/25    | 01/16/25      | 01/16/25                |

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSVR, NFPA, SOFT START

DWG. TYPE DATA TABLE

DWG. NO.

PBEIS-369

|           |      |
|-----------|------|
| SHEET     | SIZE |
| D-1       | B    |
| PBEIS-369 |      |