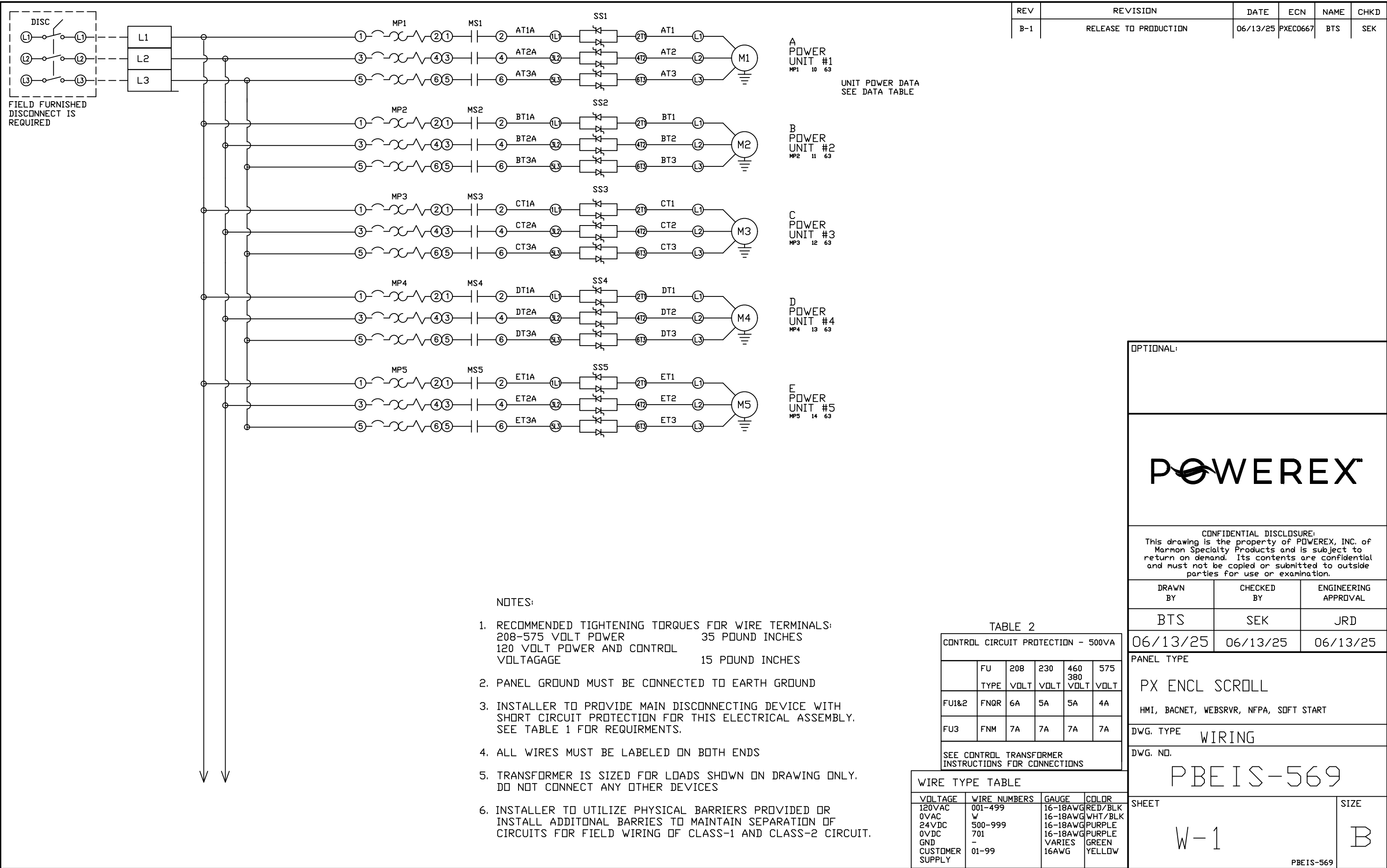




NOTES:

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 REQUIRMENTS.

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 BARRIES PROVIDED OR INSTALL ADDITIONAL BARRIES TO MAINTAIN SEPARATION OF CIRCUITS FOR FIELD WIRING OF CLASS-1 AND CLASS-2 CIRCUIT.

TABLE 2

CONTROL CIRCUIT PROTECTION - 500VA

	FU	208	230	460	575
	TYPE	VOLT	VOLT	VOLT	VOLT
FU1&2	FNQR	6A	5A	5A	4A
FU3	FNM	7A	7A	7A	7A

SEE CONTROL TRANSFORMER INSTRUCTIONS FOR CONNECTIONS

WIRE TYPE TABLE

VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-499	16-18AWG	RED/BLK
0VAC	W	16-18AWG	WHT/BLK
24VDC	500-999	16-18AWG	PURPLE
0VDC	701	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16AWG	YELLOW

REV

REVISION

DATE

ECN

NAME

CHKD

B-1

RELEASE TO PRODUCTION

06/13/25

PXEC0667

BTS

SEK

OPTIONAL:

POWEREX

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DRAWN BY

CHECKED BY

ENGINEERING APPROVAL

BTS

SEK

JRD

06/13/25

06/13/25

06/13/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSVR, NFPA, SOFT START

DWG. TYPE

WIRING

DWG. NO.

PBEIS-569

SHEET

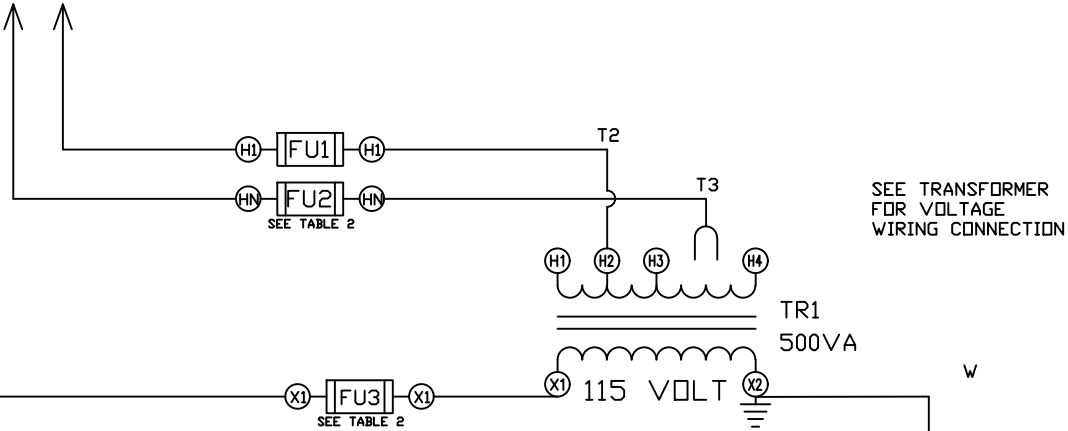
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SIZE

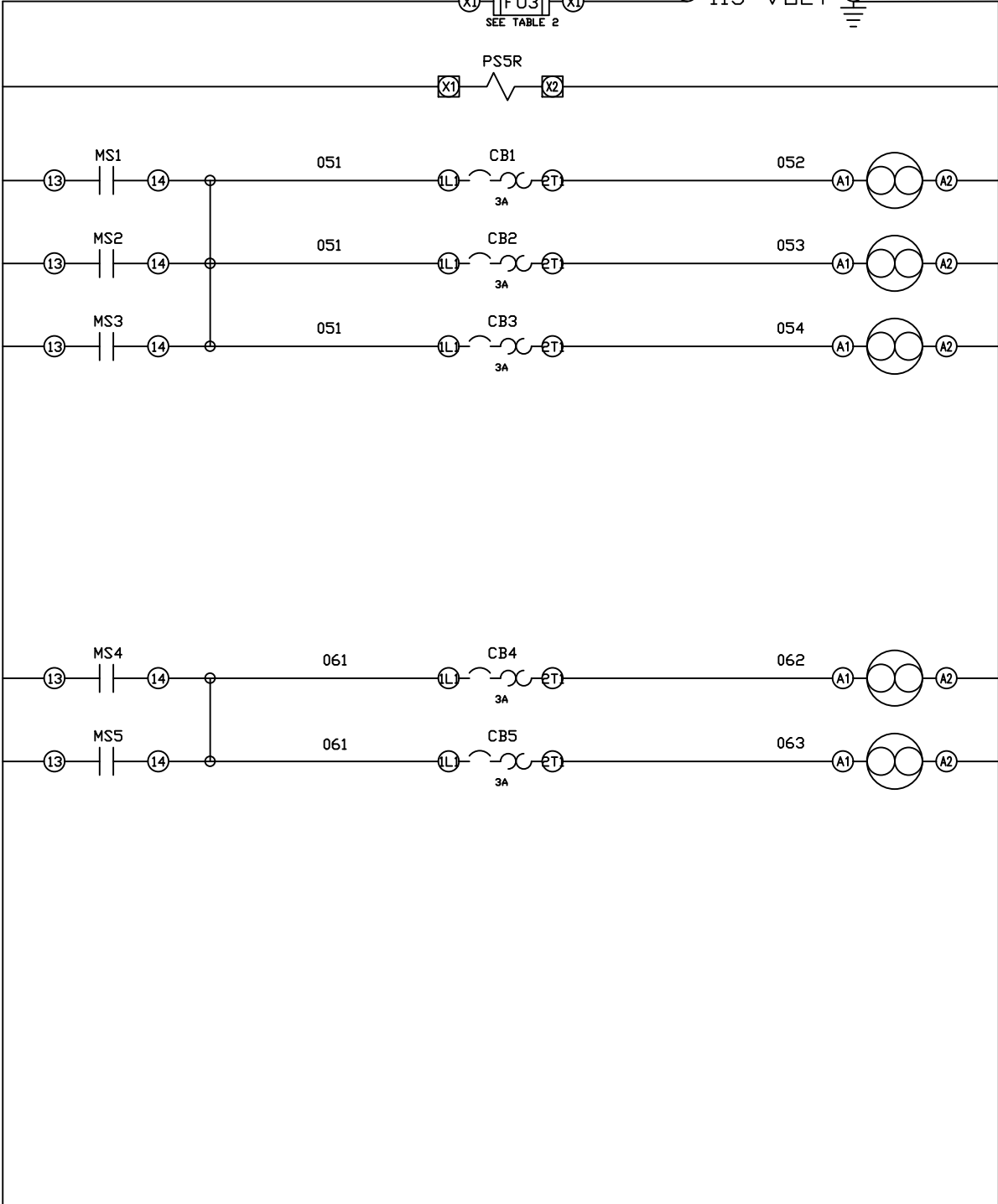
B

PBEIS-569

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	06/13/25	PXEC0667	BTS	SEK



001



05
FAN CONTROL
UNIT #1

FAN CONTROL
UNIT #2

FAN CONTROL
UNIT #3

FAN CONTROL
UNIT #4

FAN CONTROL
UNIT #5

W

W

OPTIONAL:

POWEREX

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
06/13/25	06/13/25	06/13/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

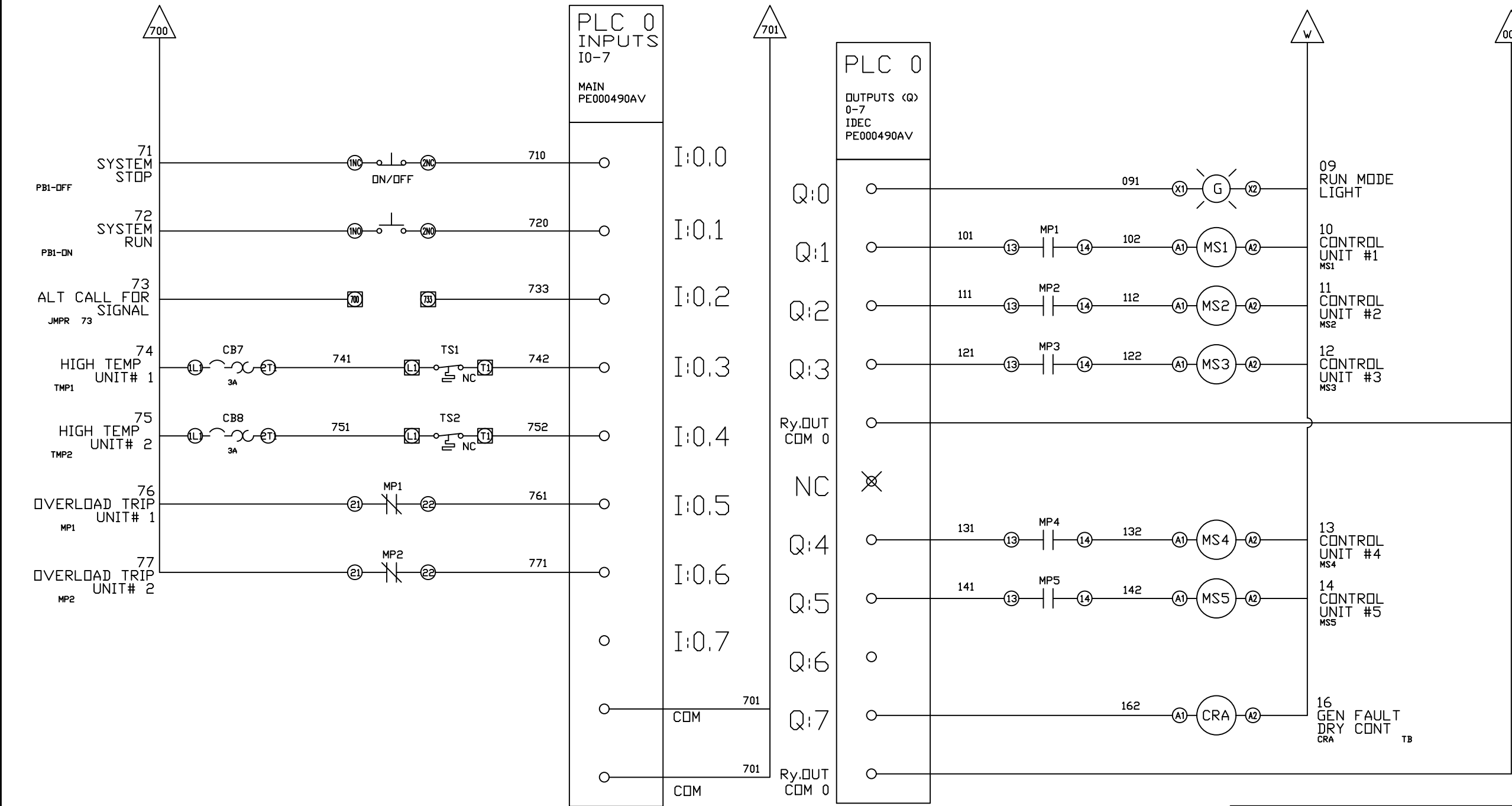
PBEIS-569

WIRE TYPE TABLE			
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-499	16-18AWG	RED/BLK
0VAC	W	16-18AWG	WHT/BLK
24VDC	500-999	16-18AWG	PURPLE
0VDC	701	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16AWG	YELLOW

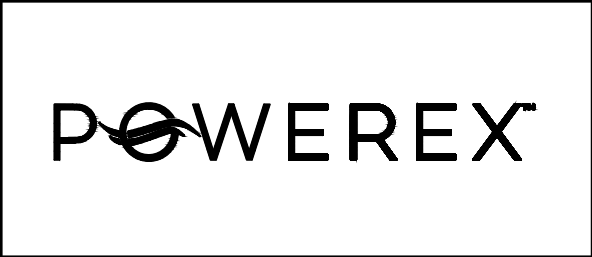
SHEET	SIZE
W-2	B

PBEIS-569

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	06/13/25	PXEC0667	BTS	SEK



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
06/13/25	06/13/25	06/13/25

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

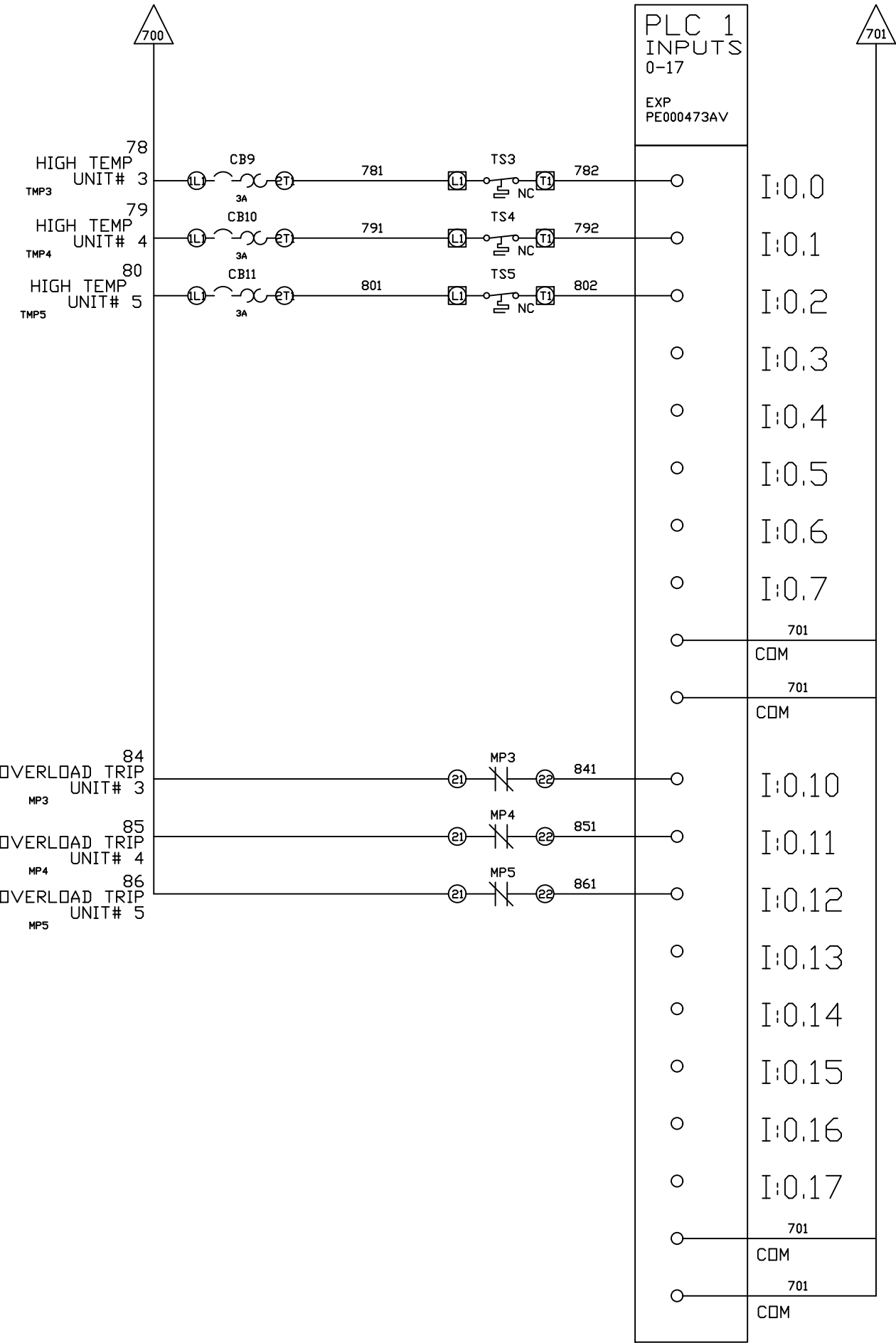
DWG. TYPE WIRING

DWG. NO. PBEIS-569

SHEET	SIZE
W-3	B

WIRE TYPE TABLE			
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-499	16-18AWG	RED/BLK
0VAC	W	16-18AWG	WHT/BLK
24VDC	500-999	16-18AWG	PURPLE
0VDC	701	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16AWG	YELLOW

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	06/13/25	PXEC0667	BTS	SEK



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
06/13/25	06/13/25	06/13/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSVR, NFPA, SOFT START

DWG. TYPE

WIRING

DWG. NO.

PBEIS-569

VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-499	16-18AWG	RED/BLK
0VAC	W	16-18AWG	WHT/BLK
24VDC	500-999	16-18AWG	PURPLE
0VDC	701	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16AWG	YELLOW

SHEET

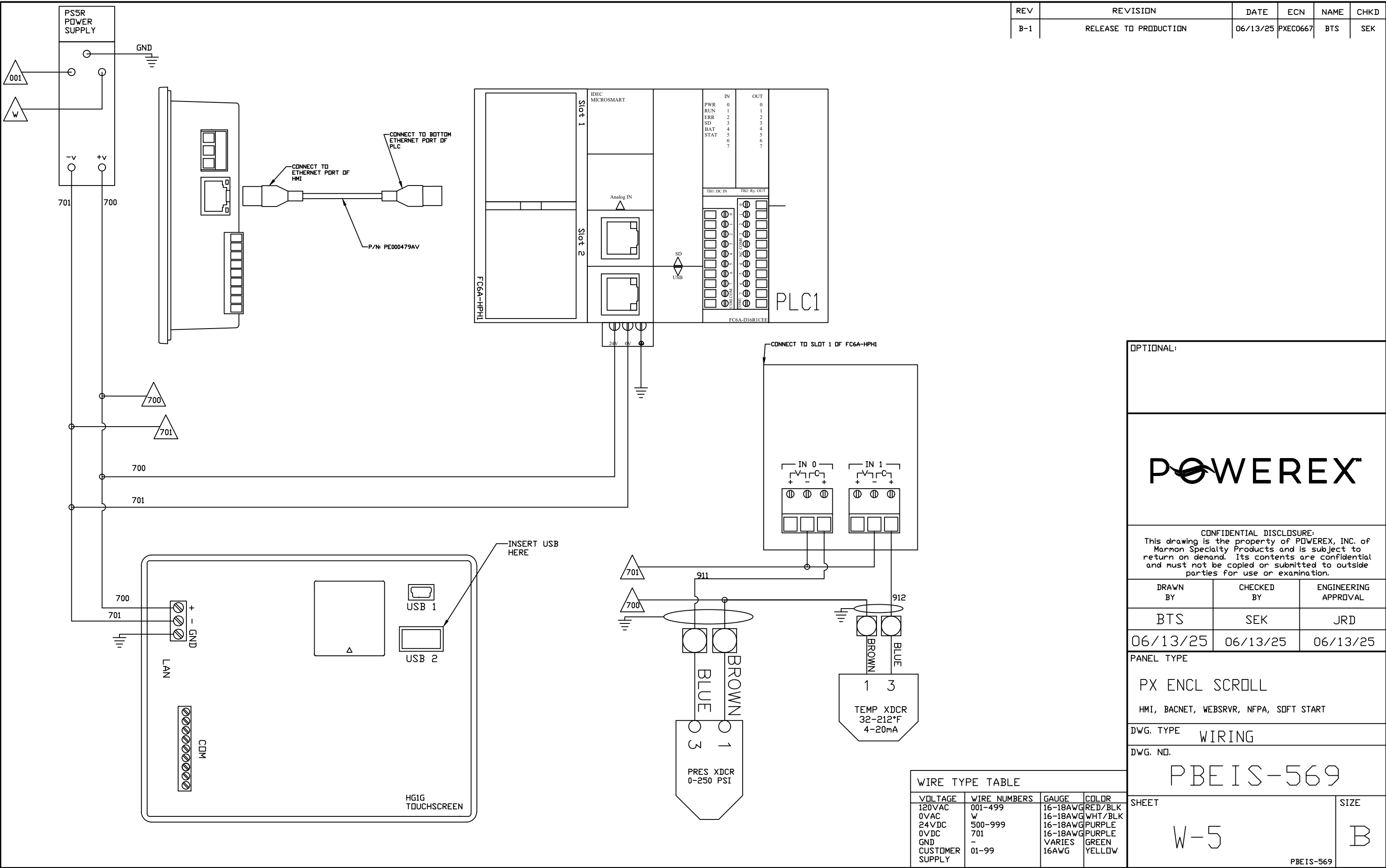
W-4

PBEIS-569

SIZE

B

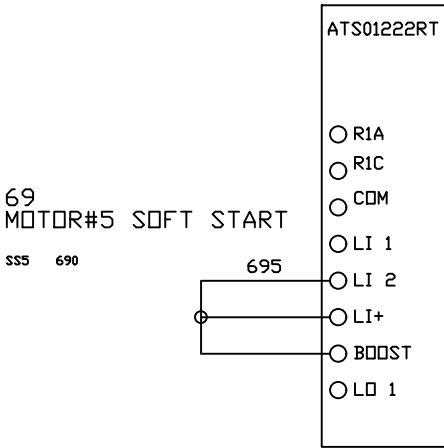
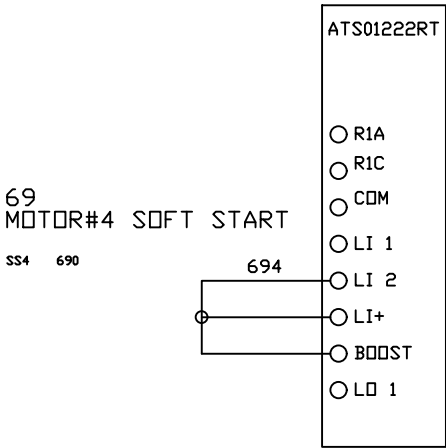
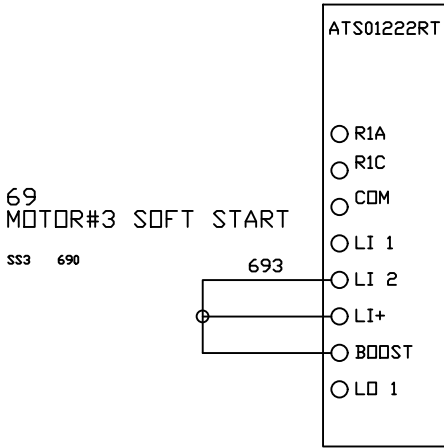
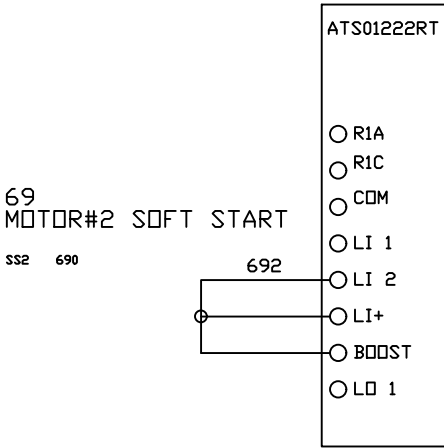
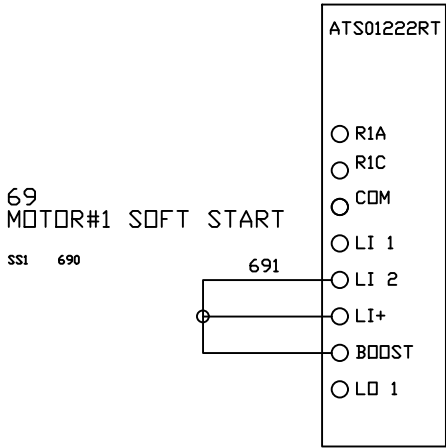
WIRE TYPE TABLE			
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-499	16-18AWG	RED/BLK
0VAC	W	16-18AWG	WHT/BLK
24VDC	500-999	16-18AWG	PURPLE
0VDC	701	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16AWG	YELLOW



SET START TIME TO 3-SEC (B)

SET INITIAL VOLT SETTING TO 67% (D)

SET STOP TIME TO 60 SEC (C)



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
06/13/25	06/13/25	06/13/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSVR, NFPA, SOFT START

DWG. TYPE

WIRING

DWG. NO.

PBEIS-569

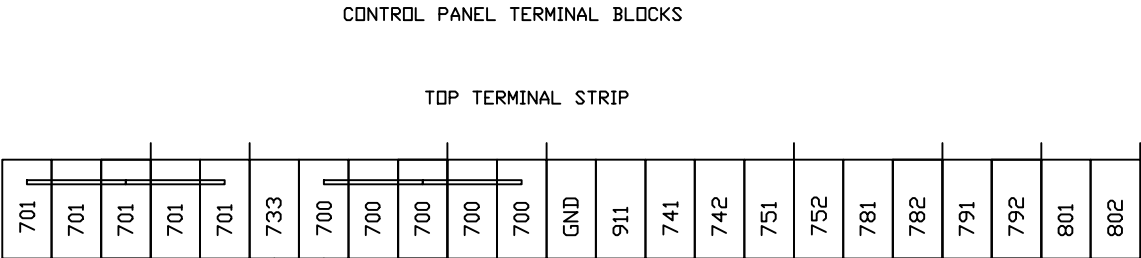
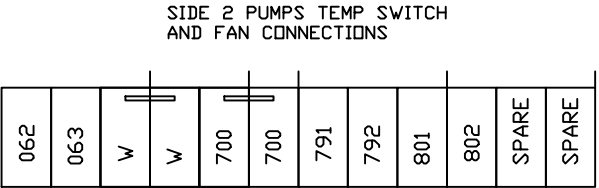
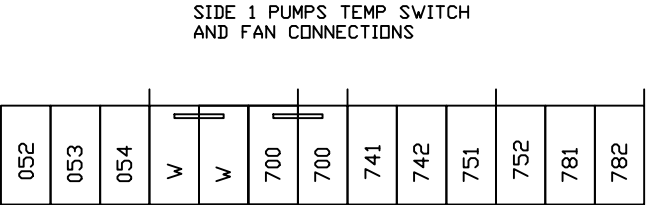
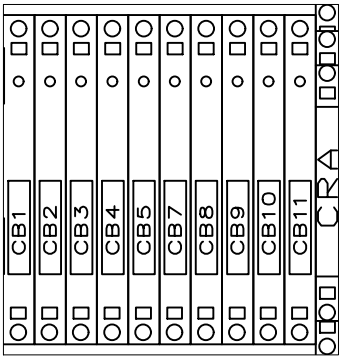
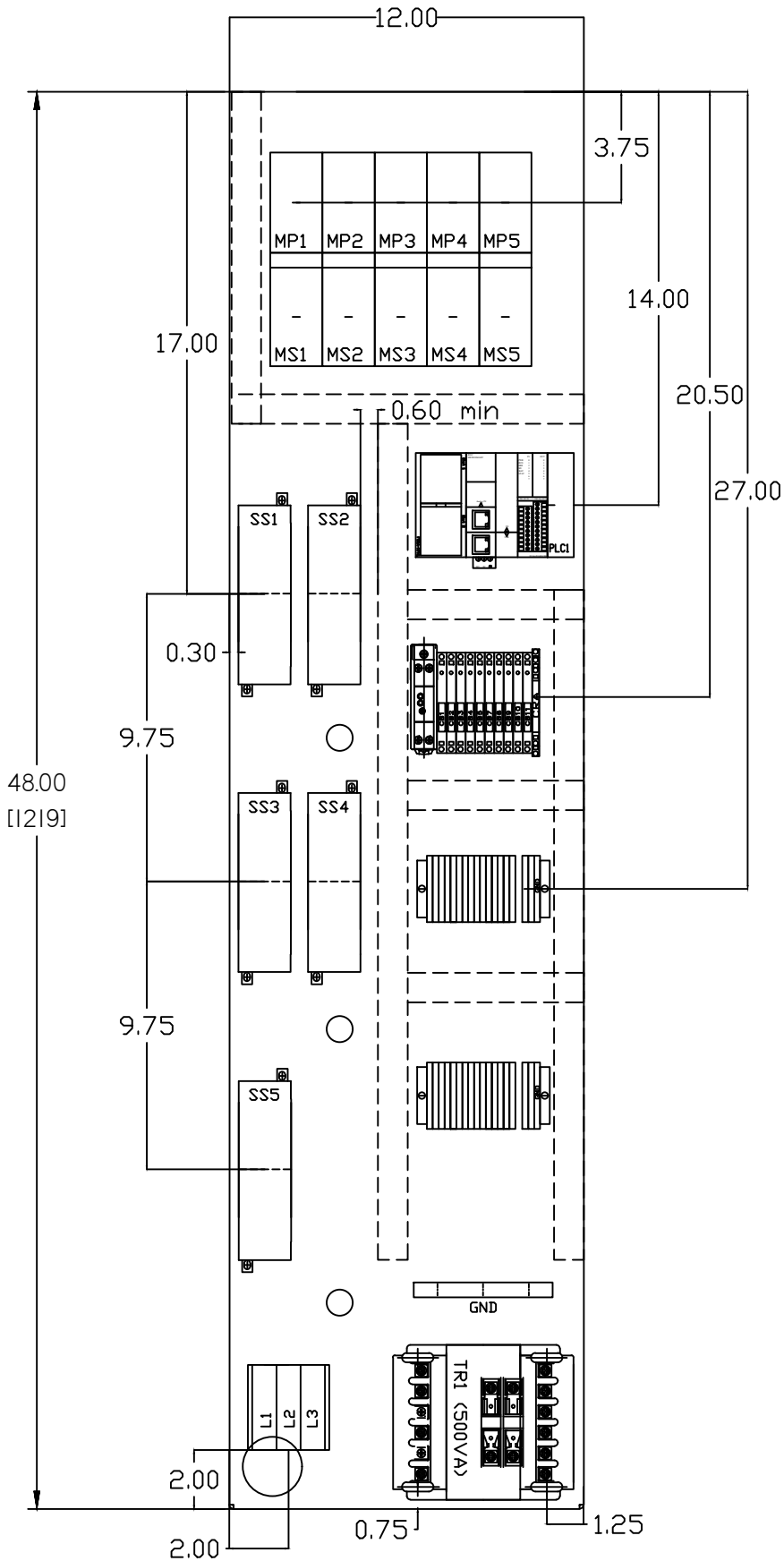
SHEET	SIZE
W-6	B

PBEIS-569

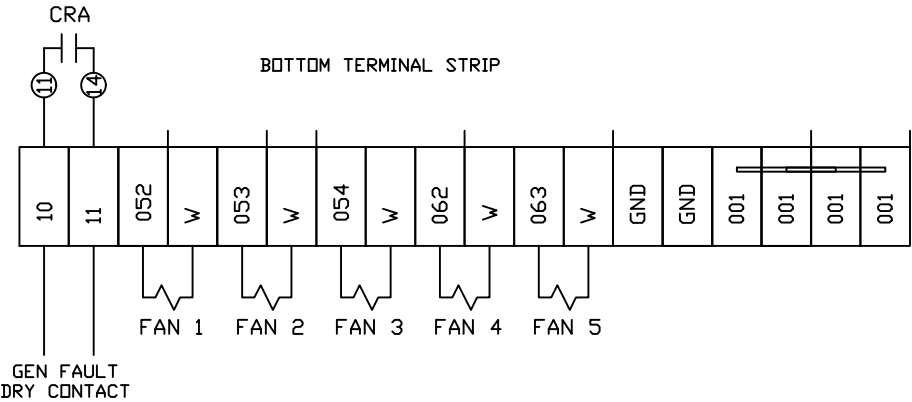
FOR ELECTRICAL ISOLATION OF PUMPS 1-3
TURN OFF CIRCUIT BREAKERS #1 ,2 3, 7, 8,
AND 9. TURN OFF MP1, MP2, AND MP3.
THEN PLACE LOCK OR TAG ON EACH DEVICE.

FOR ELECTRICAL ISOLATION OF PUMPS 4-5
TURN OFF CIRCUIT BREAKERS #4, 5, 10, AND
11. TURN OFF MP4 AND MP5.
THEN PLACE LOCK OR TAG ON EACH DEVICE.

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	06/13/25	PXEC0667	BTS	SEK



EXTERNAL
CONTROL
CONNECTION
(WHEN ENABLED)



OPTIONAL:

POWEREX

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
06/13/25	06/13/25	06/13/25

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

DWG. TYPE LAYOUT

DWG. NO. PBEIS-569

SHEET LA-1
SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	06/13/25	PXEC0667	BTS	SEK

TABLE 1

PANEL DATA 3Ø – 60 Hz 500VA CONTROL CIRCUIT					(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
PBEIS569A2AJ	10	208V/3Ø	25.4	129.4	200A	150A	175A
PBEIS569A3AJ	10	230V/3Ø	23.7	120.7	175A	150A	175A
PBEIS569A4AJ	10	460V/3Ø	11.9	60.6	90A	70A	80A
NOTE– ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE							

TABLE 1

PANEL DATA 3Ø – 60 Hz 500VA CONTROL CIRCUIT					(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
PBEIS56972AJ	7.5	208V/3Ø	19.2	98.4	150A	125A	150A
PBEIS56973AJ	7.5	230V/3Ø	17.7	90.7	150A	110A	125A
PBEIS56974AJ	7.5	460V/3Ø	8.87	45.4	70A	60A	60A
NOTE– ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE							

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
06/13/25	06/13/25	06/13/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSVR, NFPA, SOFT START

DWG. TYPE DATA

DWG. NO.

PBEIS-569

SHEET	SIZE
D-1	B
PBEIS-569	