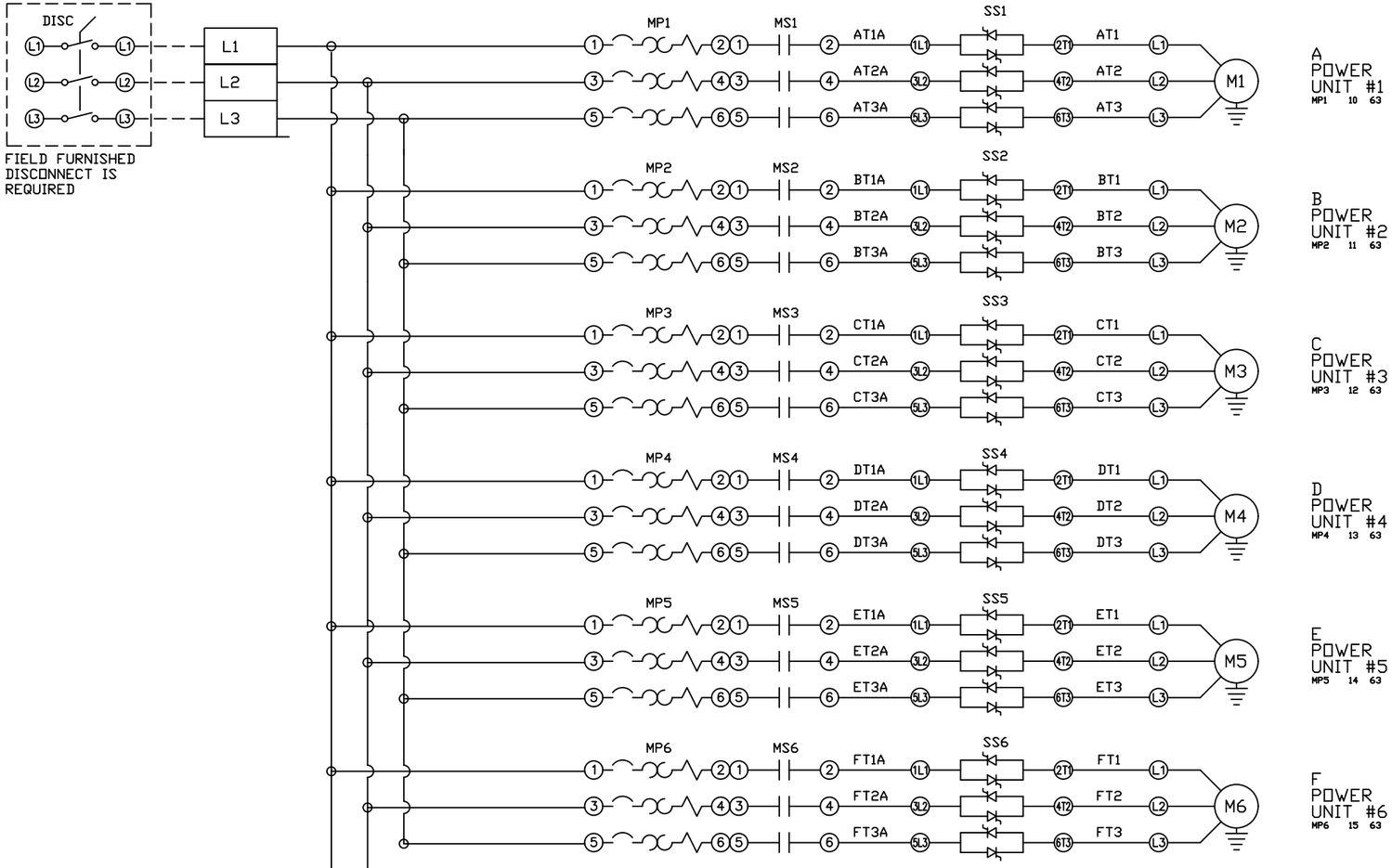
REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM



NOTES:

1. RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
   208-575 VOLT POWER 35 POUND INCHES
   120 VOLT POWER AND CONTROL VOLTAGAGE 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 BARRIERS PROVIDED OR INSTALL ADDITONAL BARRIES TO MAINTAIN SEPARATION OF CIRCUITS FOR FIELD WIRING OF CLASS-1 AND CLASS-2 CIRCUIT.

TABLE 2

CONTROL CIRCUIT PROTECTION - 500VA

	FU TYPE	208 VOLT	230 VOLT	460 380 VOLT	575 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

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

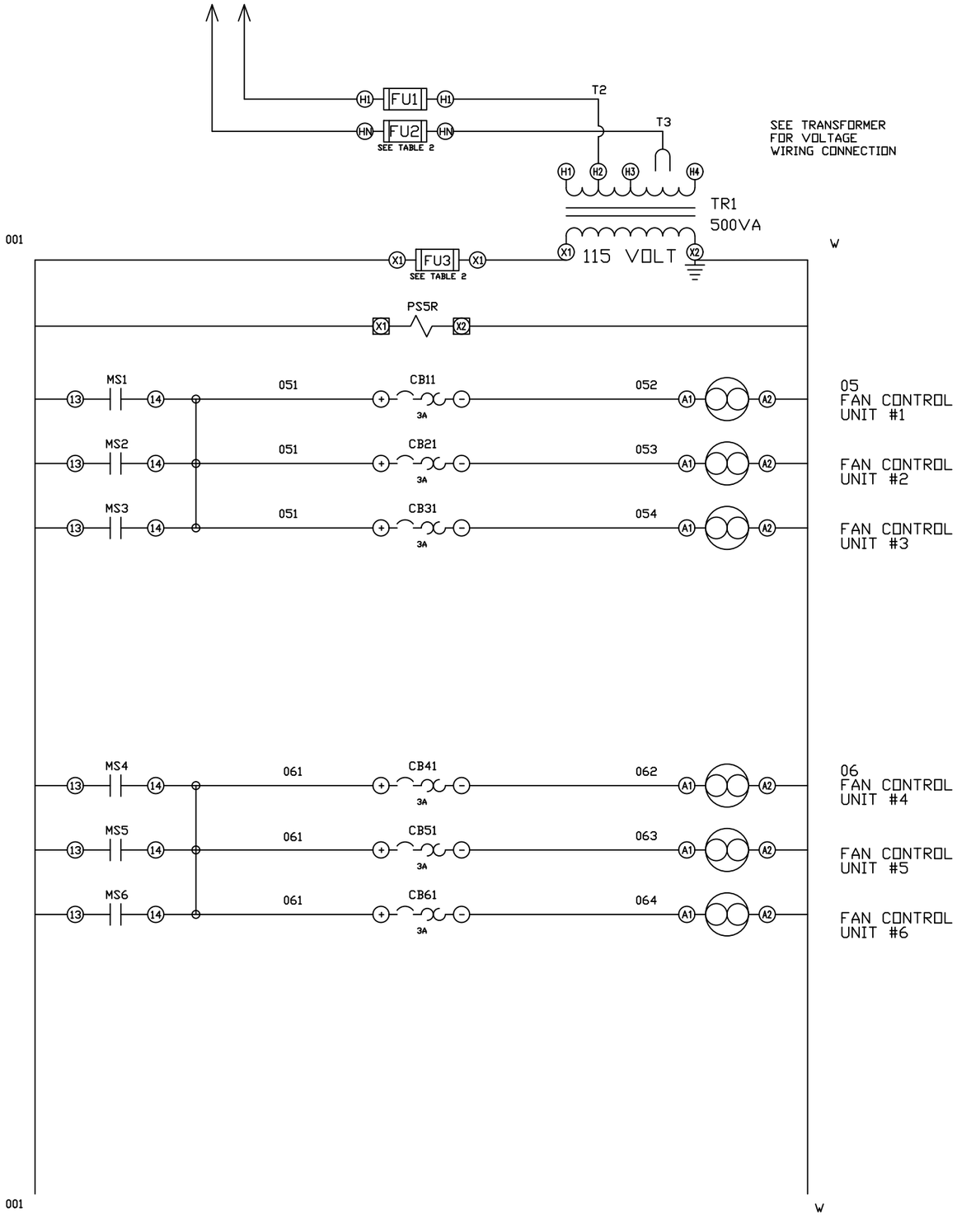
DWG. NO.

PBEIS-669

SHEET W-1

SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

PBEIS-669

SHEET W-2

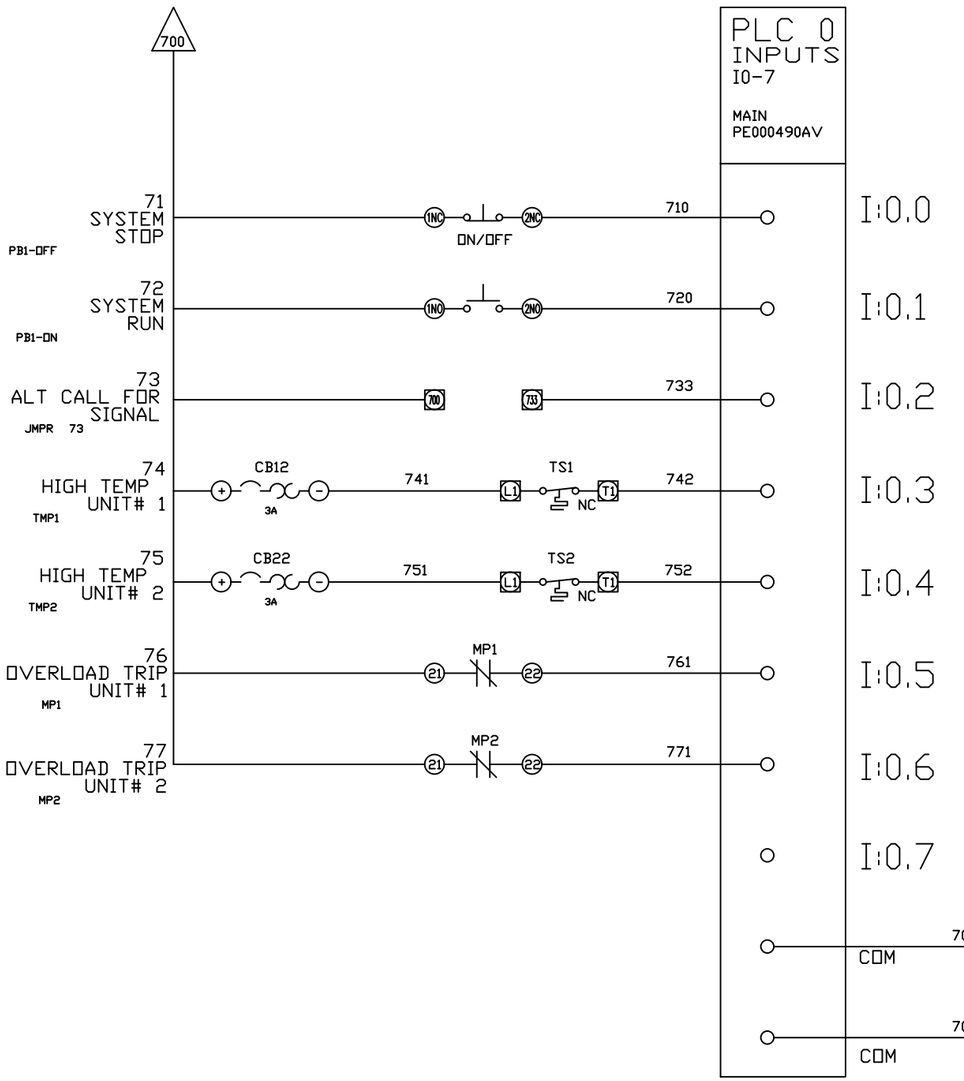
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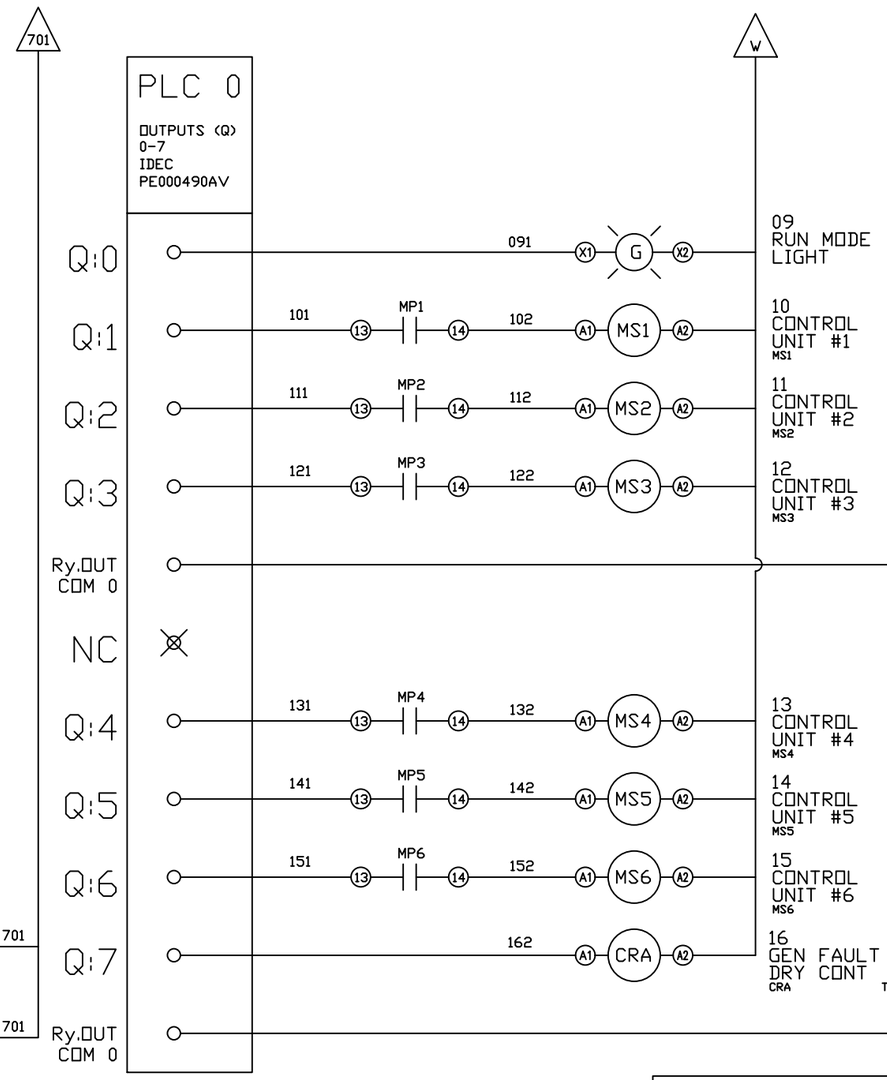
PBEIS-669

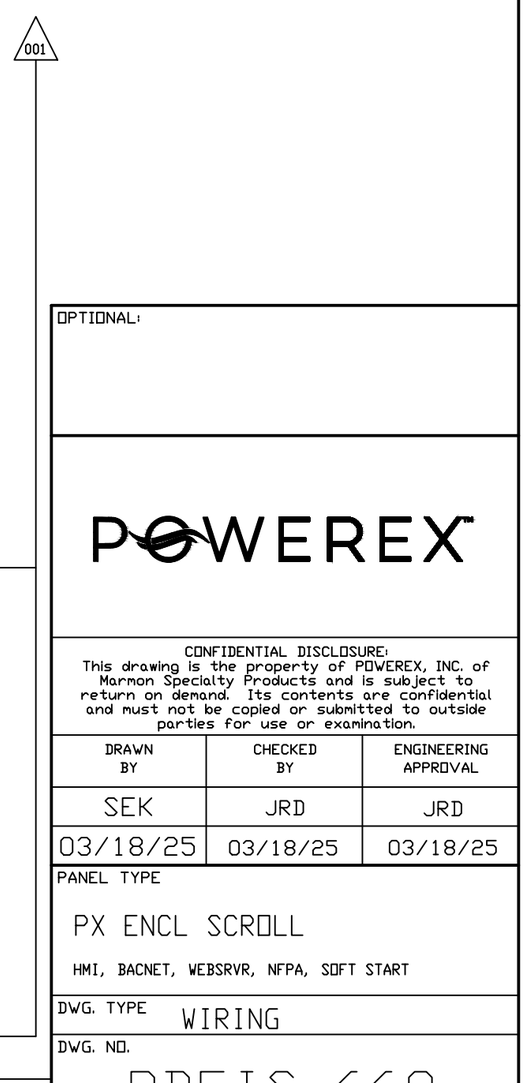
WIRE TYPE TABLE

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	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM







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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

PBEIS-669

SHEET W-3

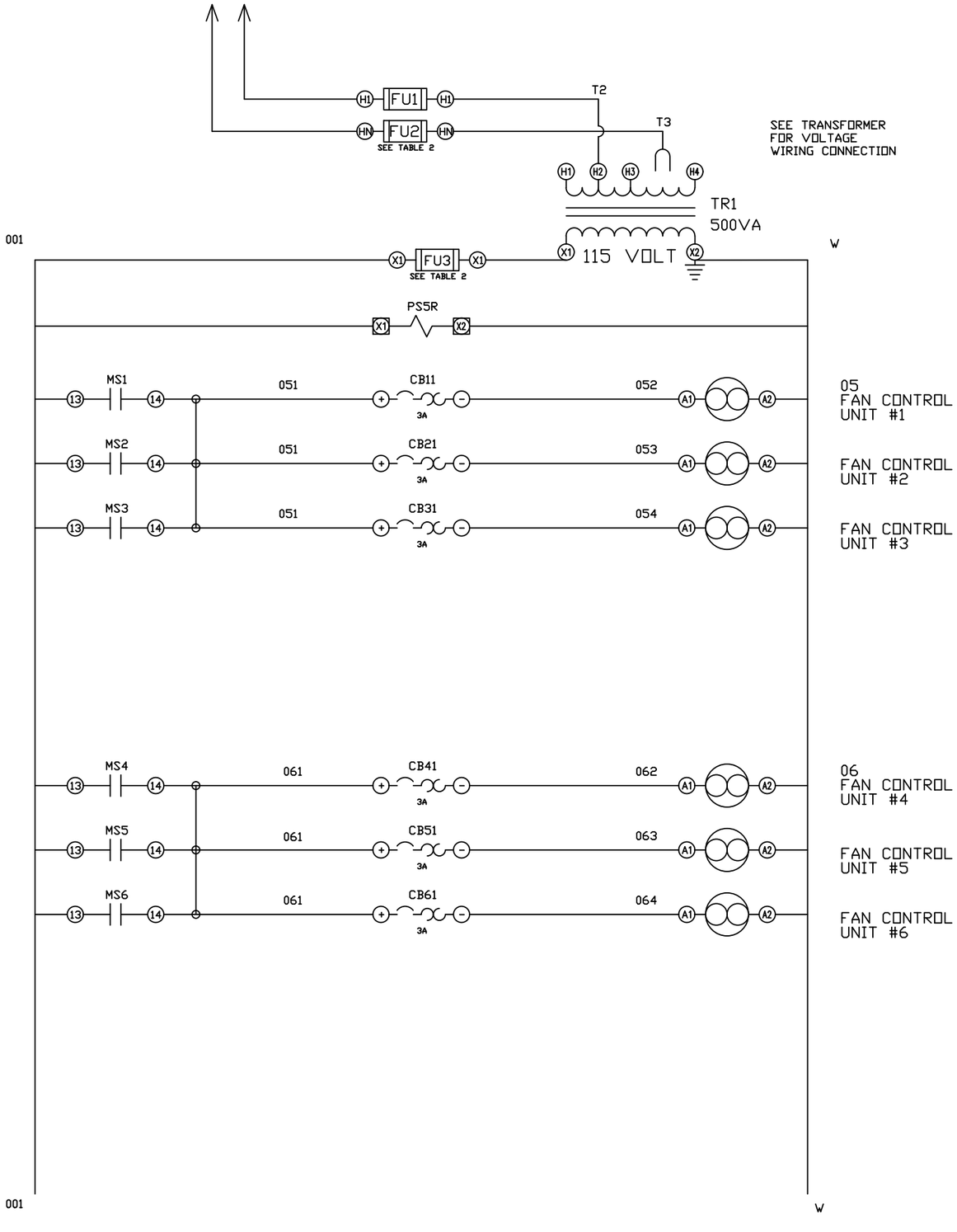
SIZE B

PBEIS-669

WIRE TYPE TABLE

VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-499	16-18AWG	RED/BLK
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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	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

PBEIS-669

SHEET W-2

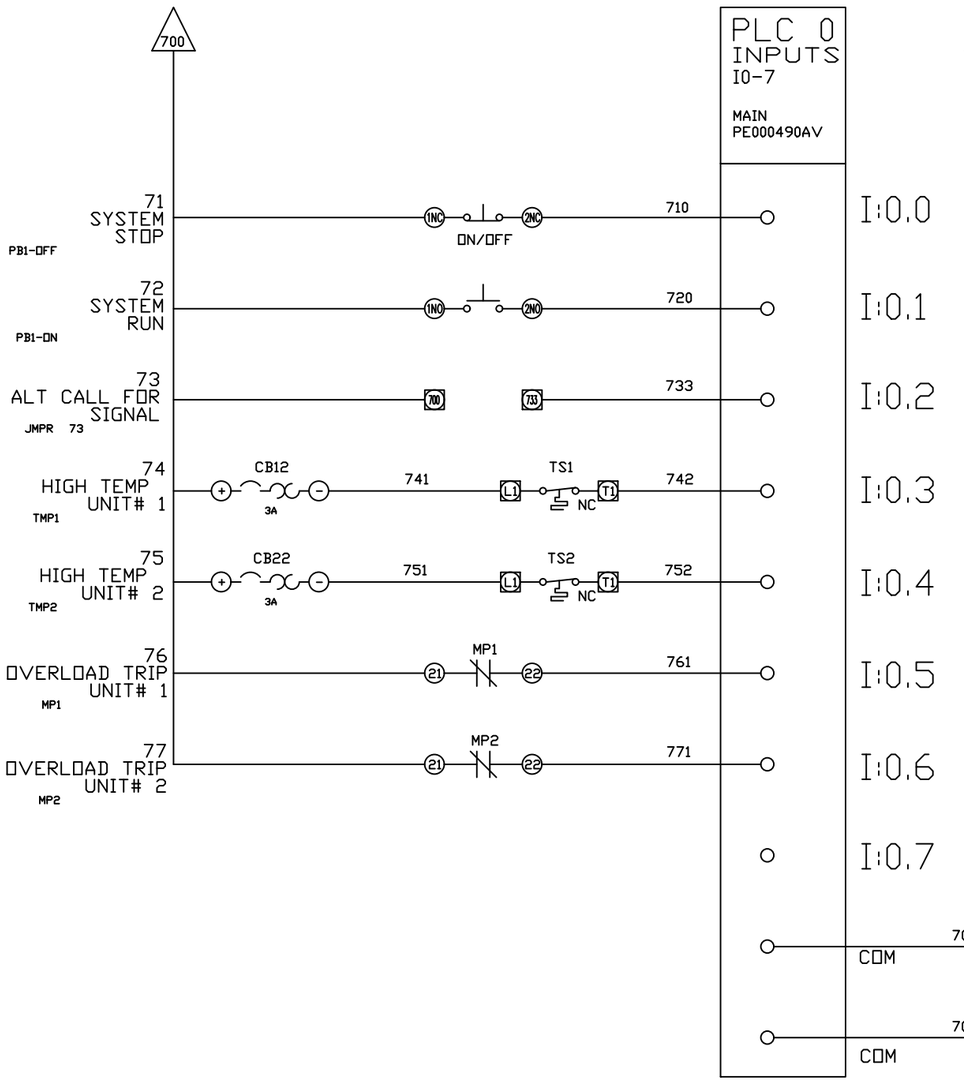
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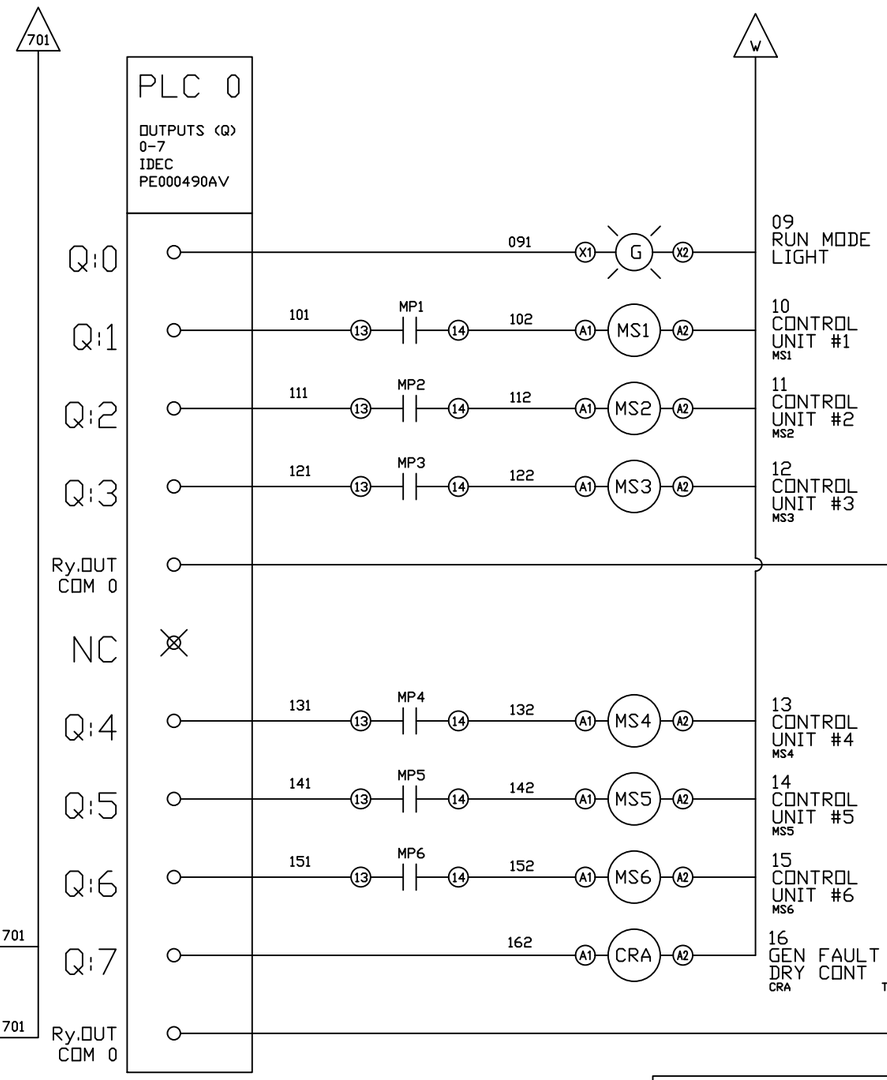
PBEIS-669

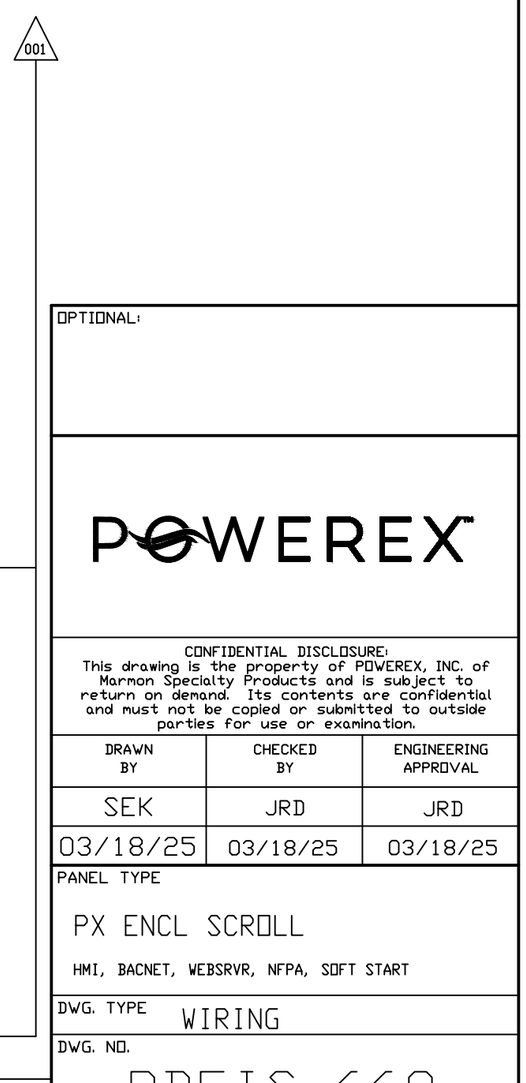
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REV	REVISION	DATE	ECN	NAME	CHKD
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C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM







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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

PBEIS-669

SHEET W-3

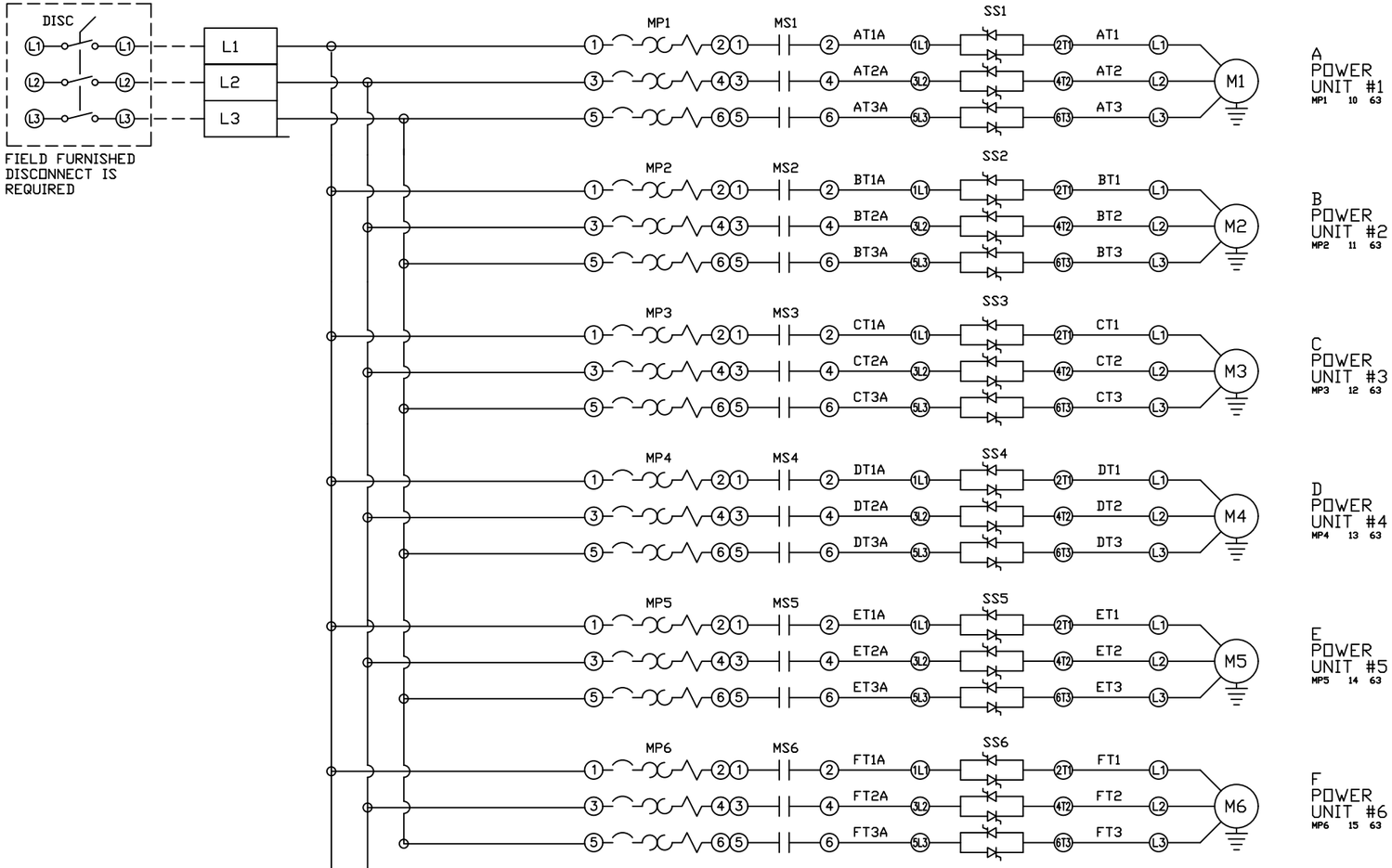
SIZE B

PBEIS-669

WIRE TYPE TABLE

VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
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GND	-	VARIES	GREEN
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REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/18/25	PXEC0667	SEK	JRD
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TABLE 2

CONTROL CIRCUIT PROTECTION - 500VA

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SEE CONTROL TRANSFORMER INSTRUCTIONS FOR CONNECTIONS

WIRE TYPE TABLE

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GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16AWG	YELLOW

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

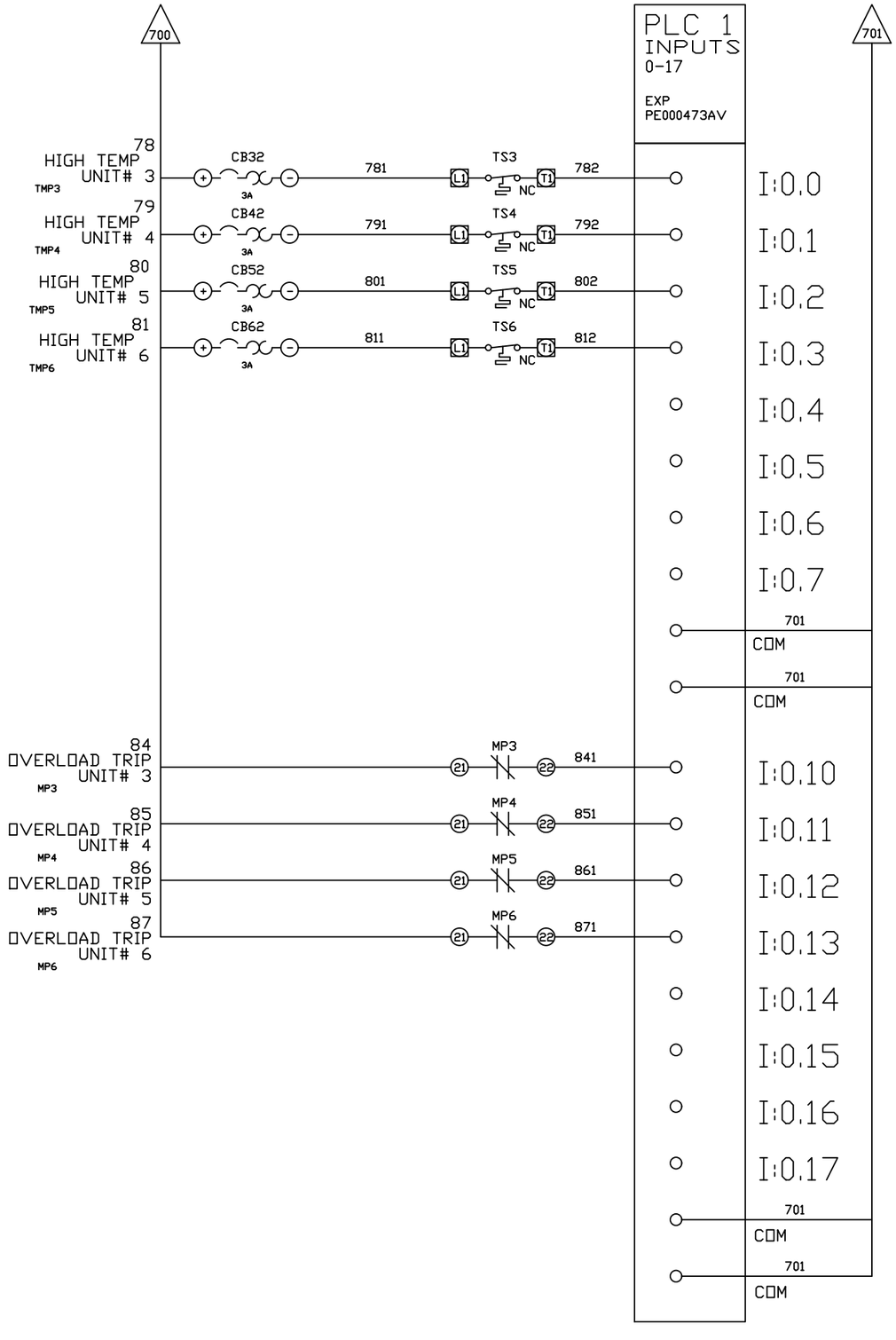
DWG. NO.

PBEIS-669

SHEET W-1

SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

PBEIS-669

SHEET W-4

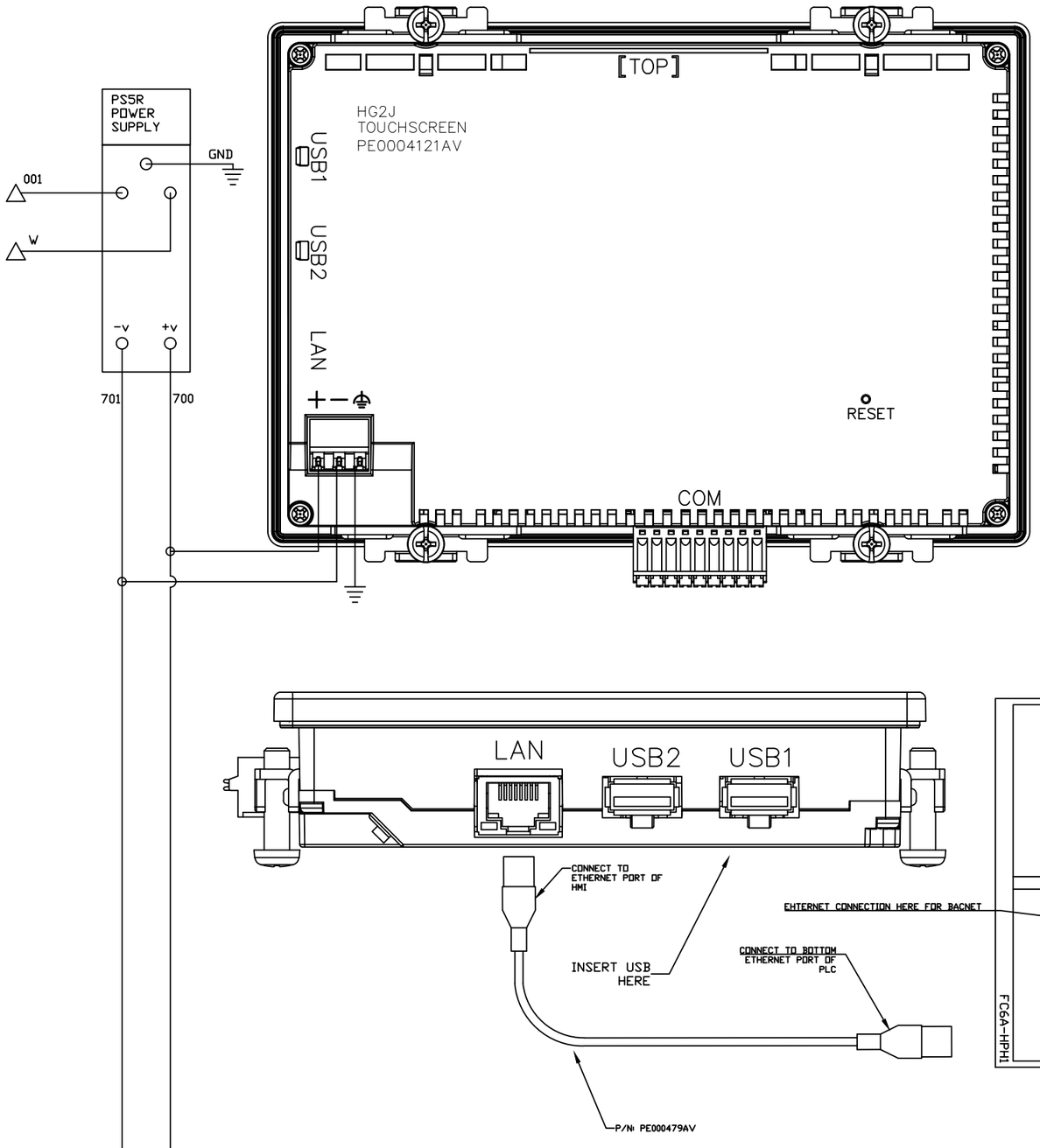
SIZE B

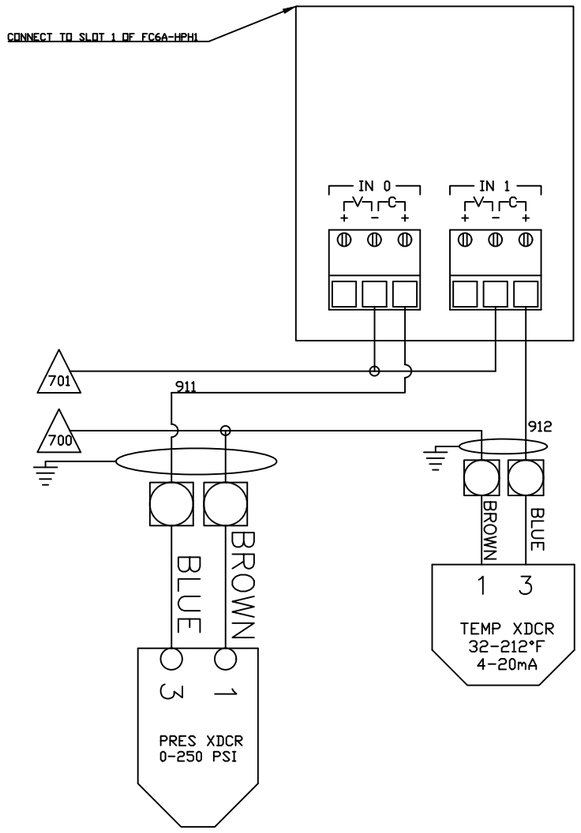
PBEIS-669

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	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM





OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

PBEIS-669

SHEET W-5

SIZE B

PBEIS-669

WIRE TYPE TABLE

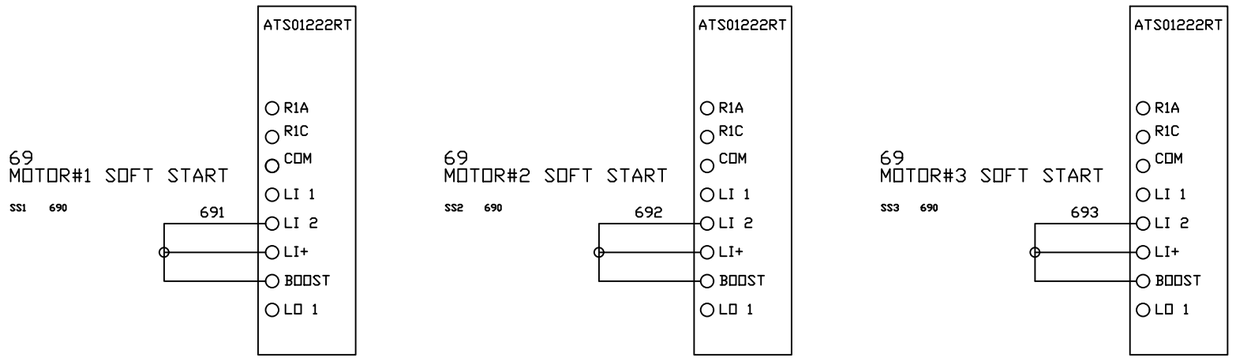
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-499	16-18AWG	RED/BLK
0VAC	W	16-18AWG	WHT/BLK
24VDC	500-999	16-18AWG	PURPLE
0VDC	701	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16AWG	YELLOW

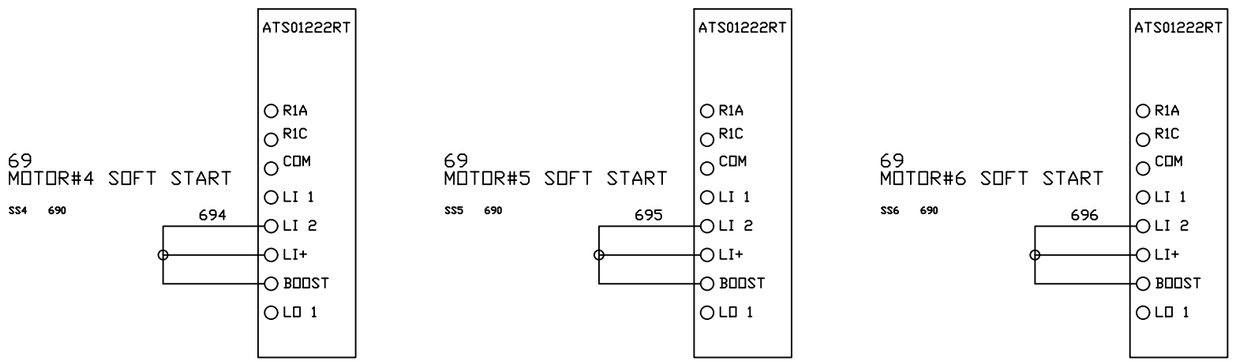
REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM

SET START TIME TO 3-SEC (B)

SET INITIAL VOLT SETTING TO 67% (D)

SET STOP TIME TO 5 SEC (C)





OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

PBEIS-669

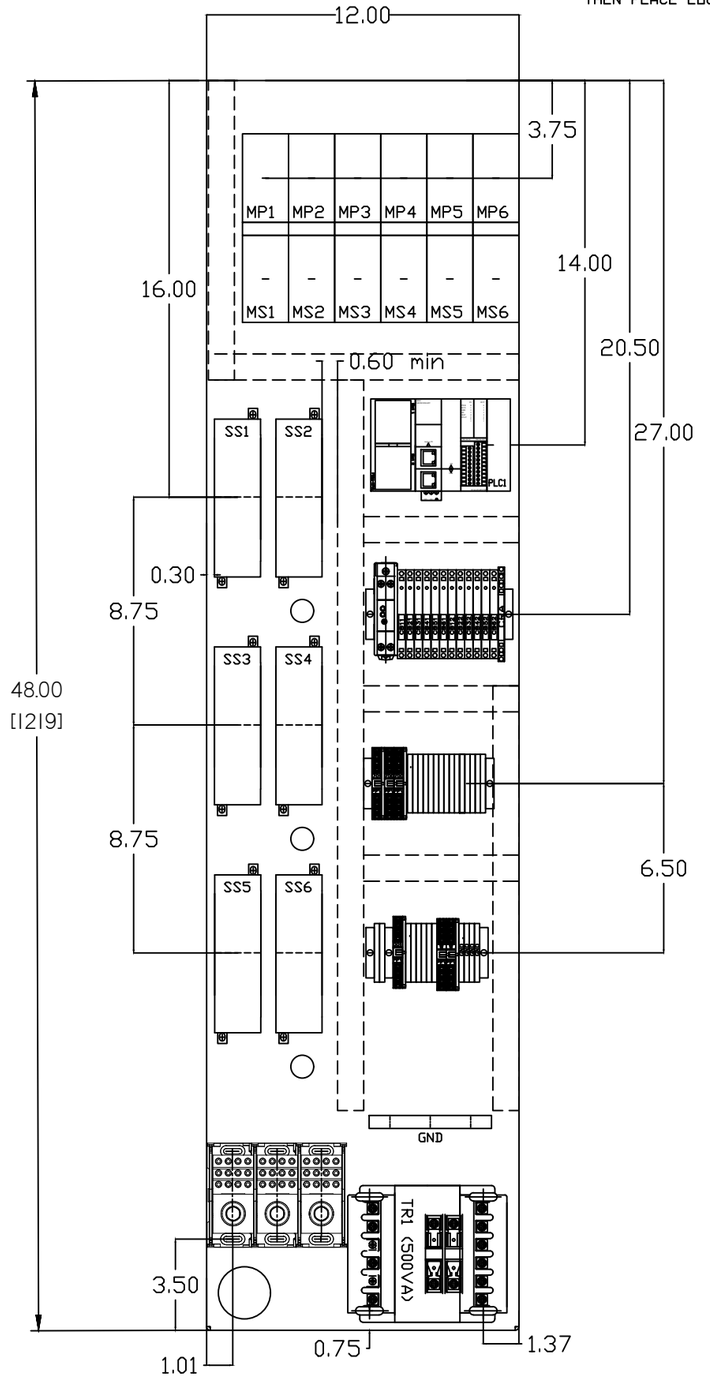
SHEET W-6

SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM

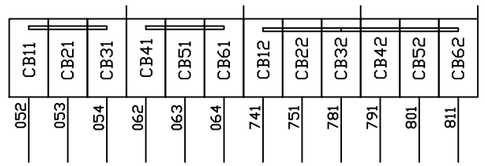
FOR ELECTRICAL ISOLATION OF PUMPS 1-3
TURN OFF CIRCUIT BREAKERS #1 ,2 3, 7, 8,
AND 9. TURN OFF MP1, MP2, AND MP3.
THEN PLACE LOCK OR TAG ON EACH DEVICE.

FOR ELECTRICAL ISOLATION OF PUMPS 4-6
TURN OFF CIRCUIT BREAKERS #4, 5, 6, 10,
11, AND 12. TURN OFF MP4, MP5, AND MP6.
THEN PLACE LOCK OR TAG ON EACH DEVICE.

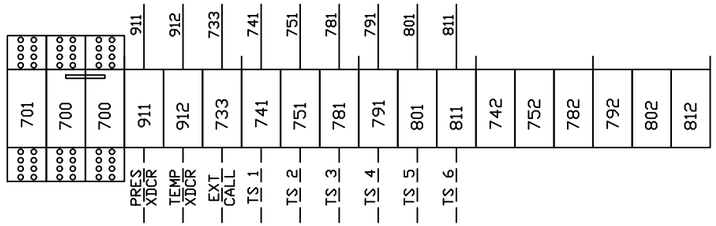


CONTROL PANEL TERMINAL BLOCKS

TOP TERMINAL STRIP

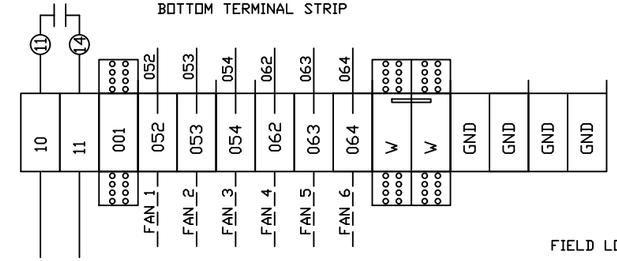


MIDDLE TERMINAL STRIP



CRA

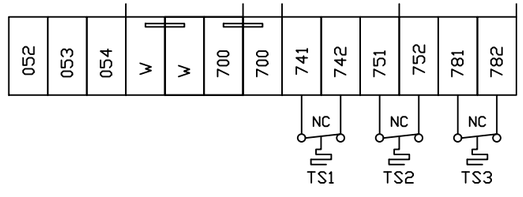
BOTTOM TERMINAL STRIP



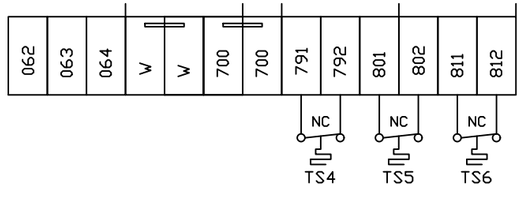
GEN FAULT
DRY CONTACT

FIELD LOCATED TERMINAL BLOCKS

SIDE 1 PUMPS TEMP SWITCH
AND FAN CONNECTIONS



SIDE 2 PUMPS TEMP SWITCH
AND FAN CONNECTIONS



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE LAYOUT

DWG. NO.

PBEIS-669

SHEET LA-1

SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM

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
PBEIS669A2AJ	10	208V/3ø	25.4	154.8	225A	175A	200A
PBEIS669A3AJ	10	230V/3ø	23.7	144.4	200A	175A	200A
PBEIS669A4AJ	10	460V/3ø	11.9	72.5	100A	90A	100A

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
PBEIS66972AJ	7.5	208V/3ø	19.2	117.6	175A	150A	150A
PBEIS66973AJ	7.5	230V/3ø	17.7	108.4	150A	125A	150A
PBEIS66974AJ	7.5	460V/3ø	8.87	54.3	80A	70A	70A

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
03/18/25	03/18/25	03/18/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE DATA TABLE

DWG. NO.

PBEIS-669

SHEET D-1

SIZE B