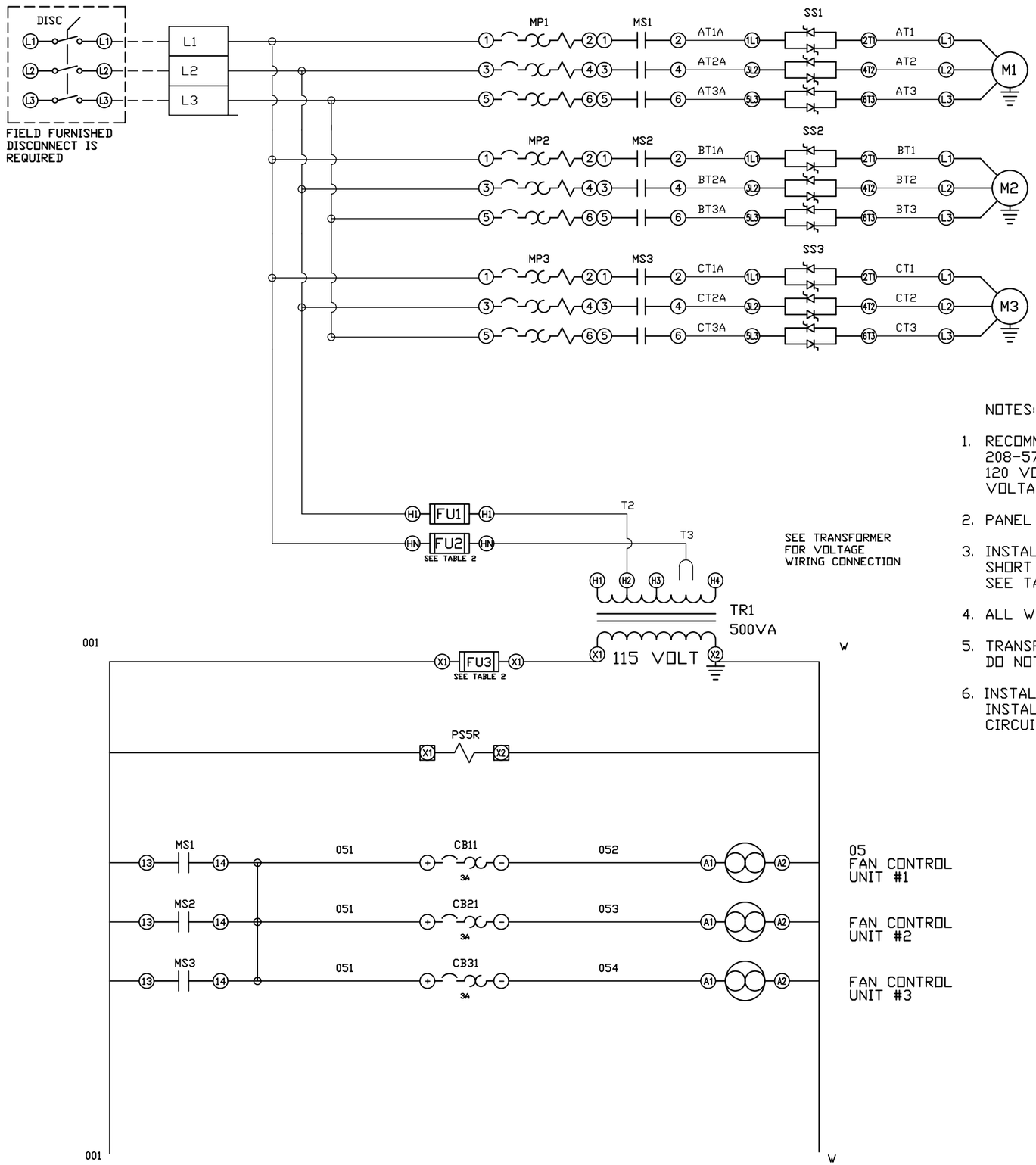
REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM



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	208/200 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	001-599	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, WEBSRVR, NFPA, SOFT START

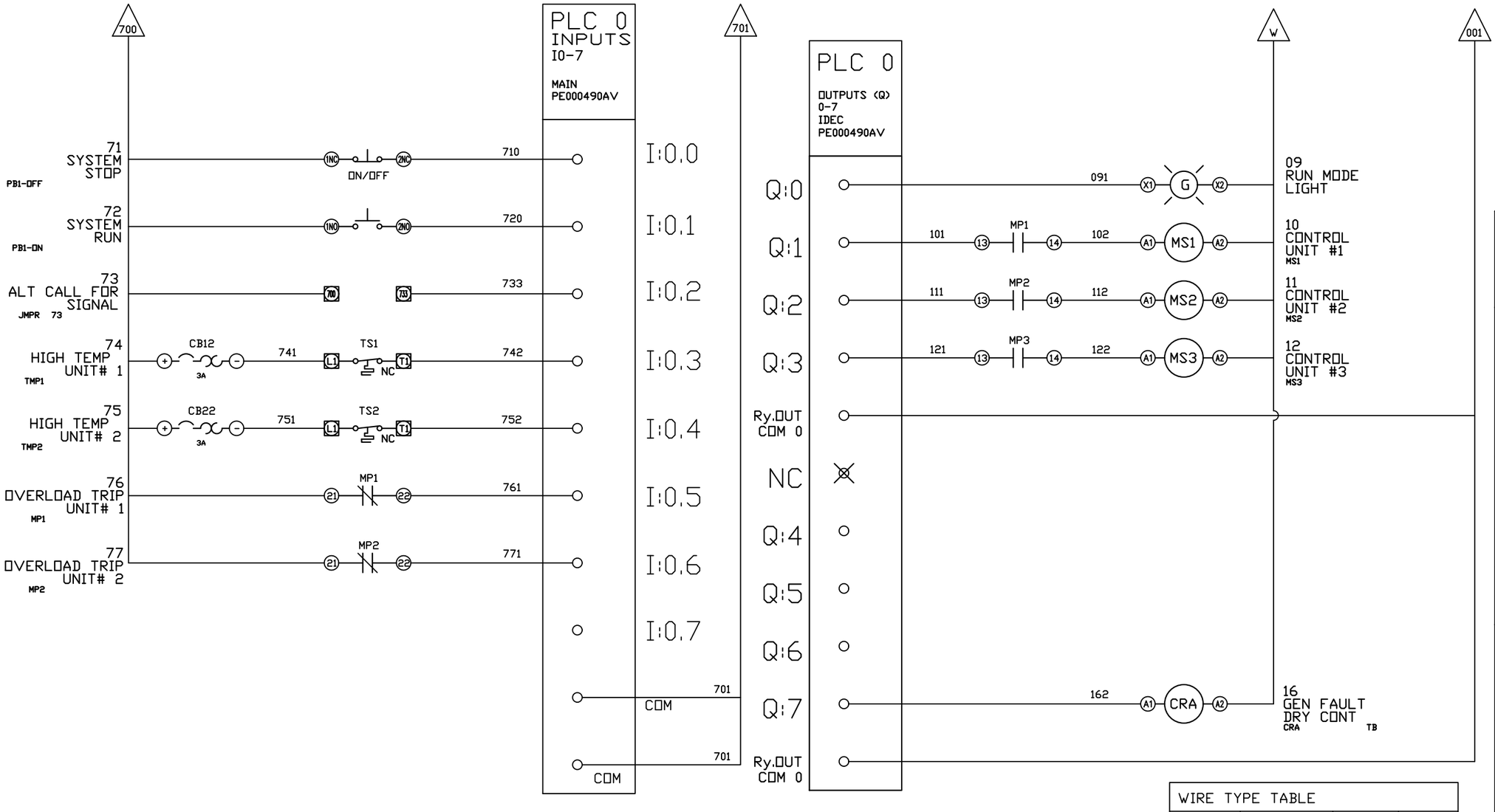
DWG. TYPE WIRING

DWG. NO.
PBEIS-369

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	01/16/25	01/16/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

PBEIS-369

SHEET W-2

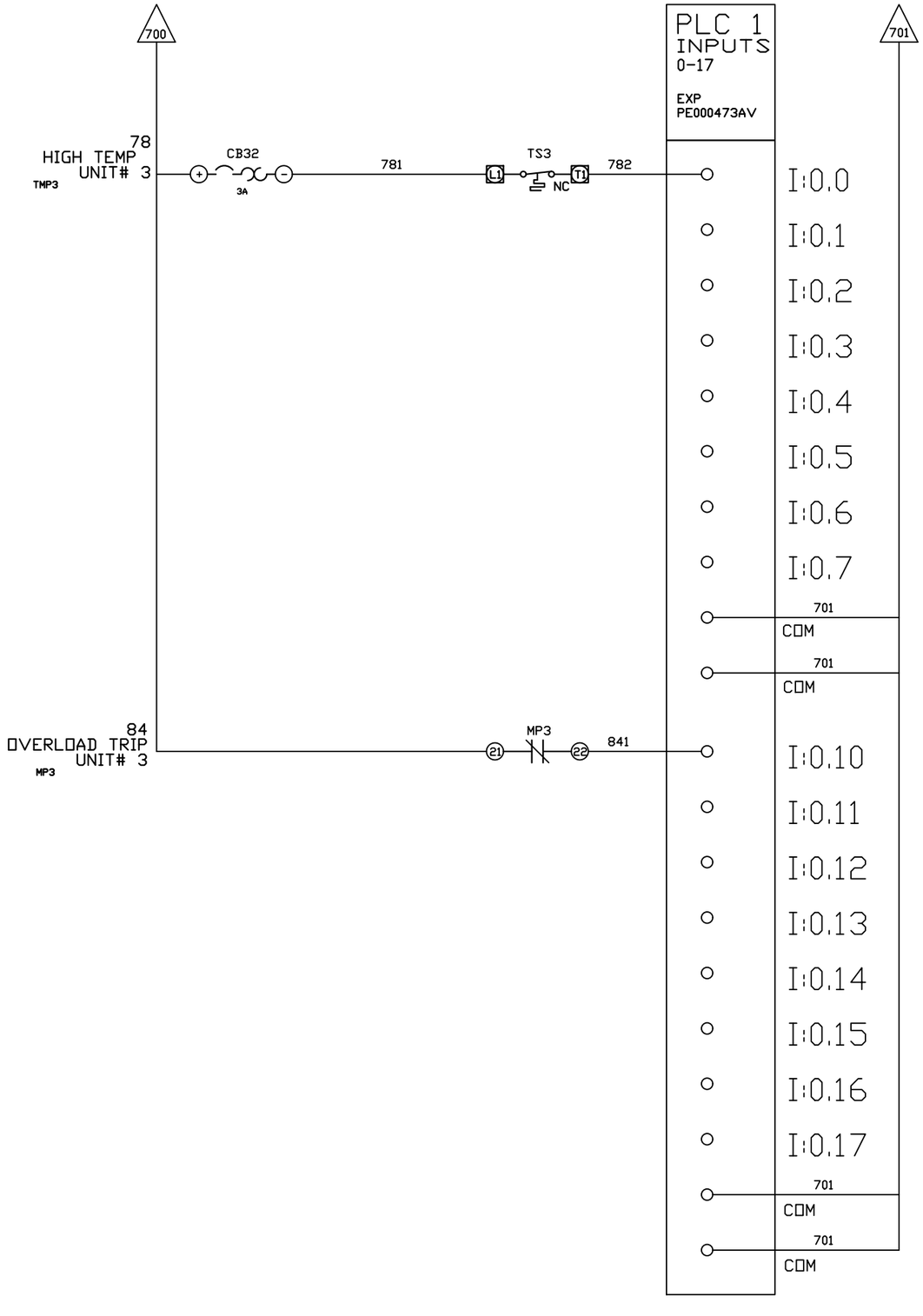
SIZE B

PBEIS-369

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

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



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, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

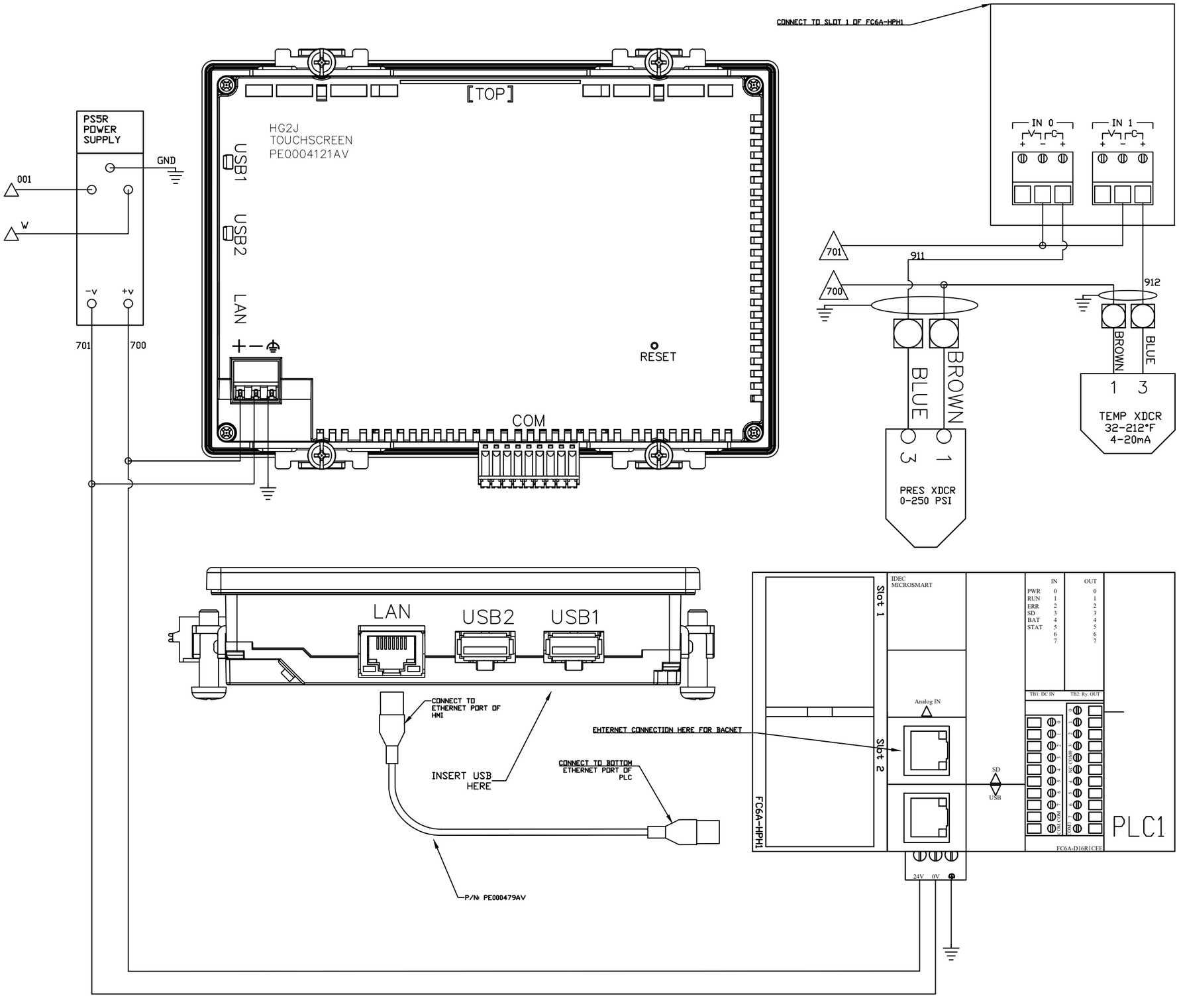
PBEIS-369

SHEET W-3

SIZE B

PBEIS-369

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	01/16/25	01/16/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

PBEIS-369

SHEET W-4

SIZE B

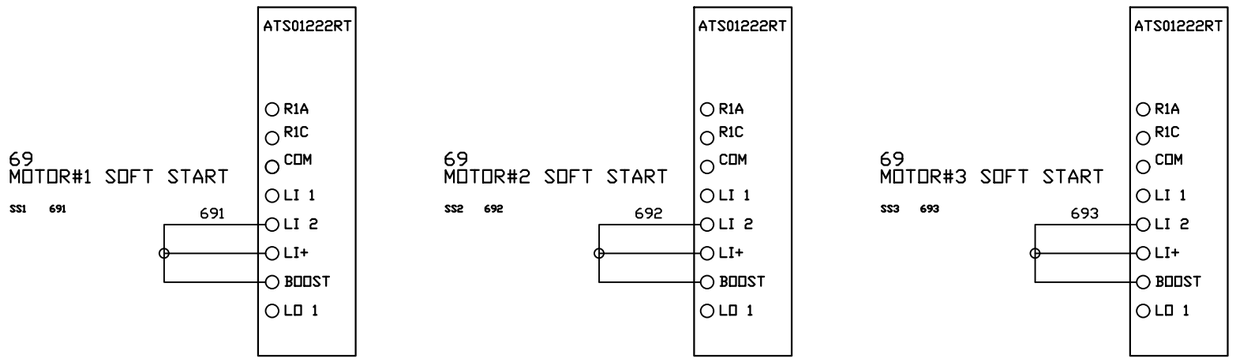
PBEIS-369

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	01/16/25	01/16/25

PANEL TYPE

PX ENCL SCROLL

HMI, BACNET, WEBSRVR, NFPA, SOFT START

DWG. TYPE WIRING

DWG. NO.

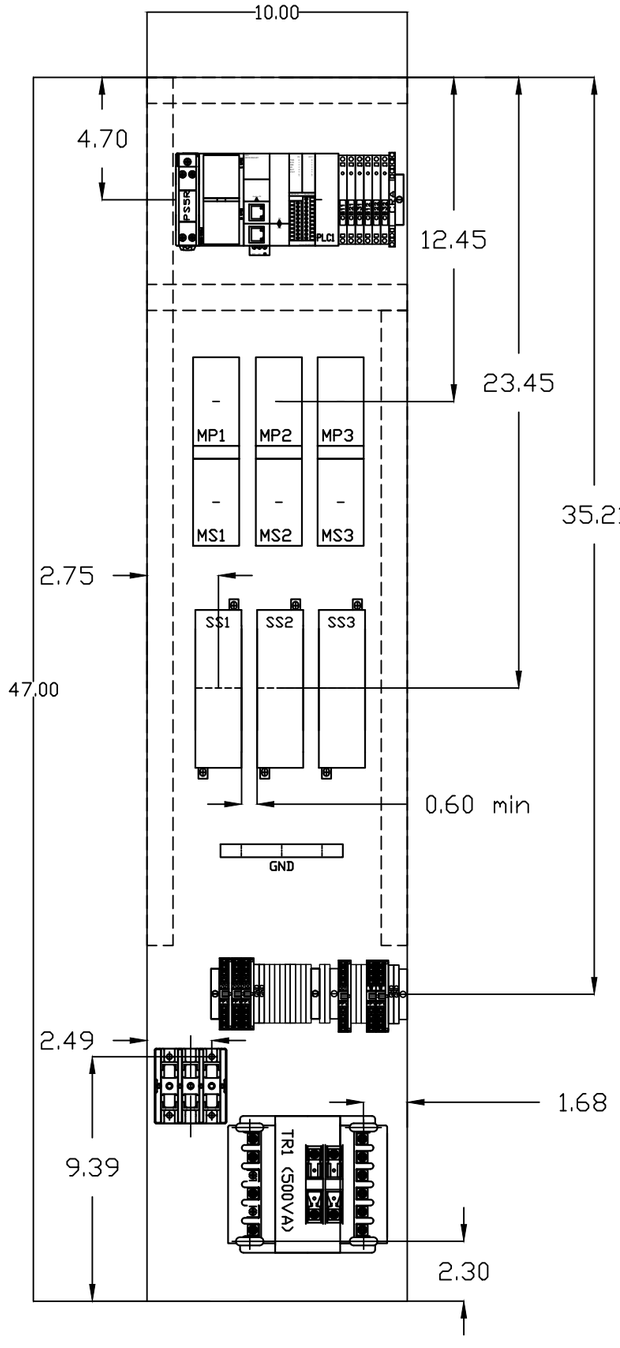
PBEIS-369

SHEET W-5

SIZE B

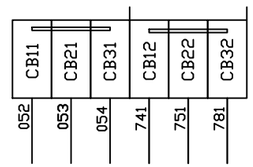
REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/18/25	PXEC0667	SEK	JRD
C-1	REPLACED 5.7" HMI WITH 7" VERSION	01/14/26	PXEC0728	SEK	WMM

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.

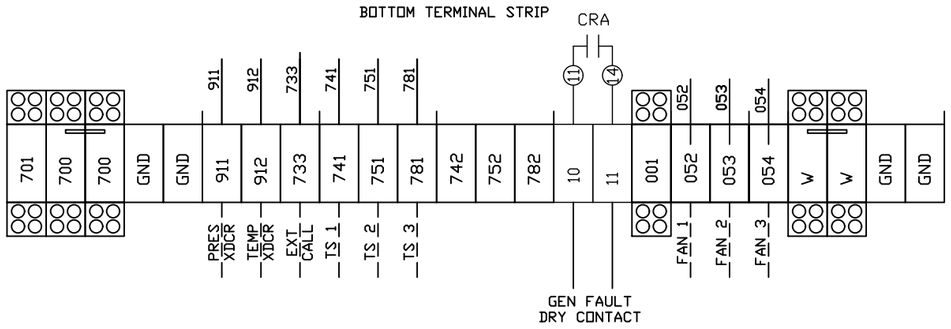


CONTROL PANEL TERMINAL BLOCKS

TOP TERMINAL STRIP

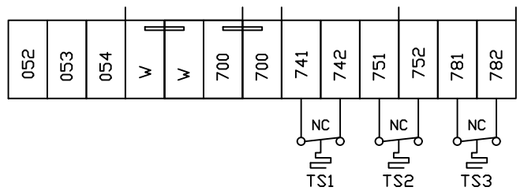


BOTTOM TERMINAL STRIP



FIELD LOCATED TERMINAL BLOCKS

SIDE 1 PUMPS TEMP SWITCH
AND FAN CONNECTIONS



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, WEBSRVR, 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
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
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 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
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 115% OF MOTOR NAMEPLATE FLA VALUE

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, WEBSRVR, NFPA, SOFT START

DWG. TYPE DATA TABLE

DWG. NO.

PBEIS-369

SHEET D-1

SIZE B