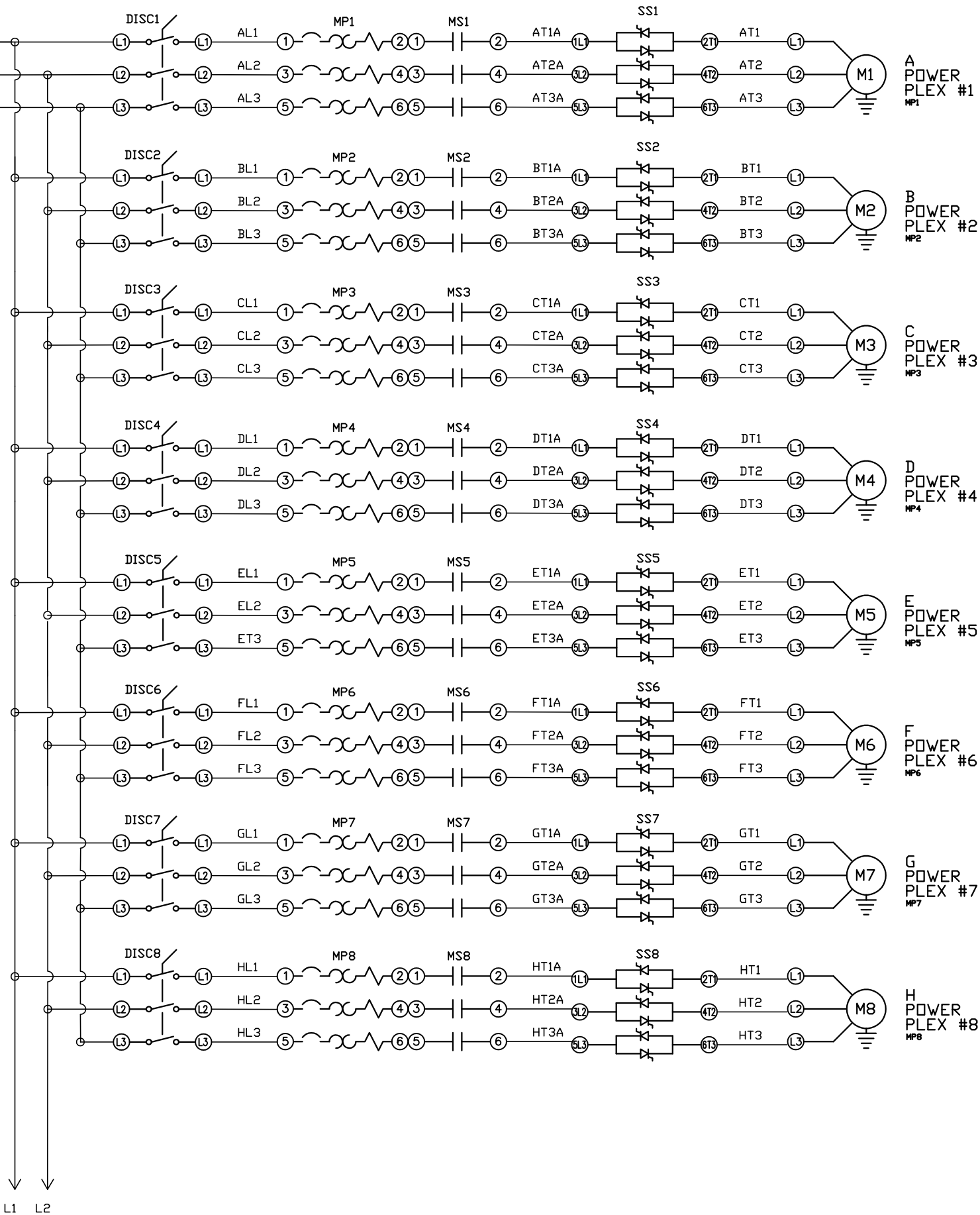


FIELD FURNISHED
DISCONNECT IS
REQUIRED

SEE NOTES ON
DATA TABLE PAGE



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	3/26/25	PXEC0667	SEK	JRD

OPTIONAL:

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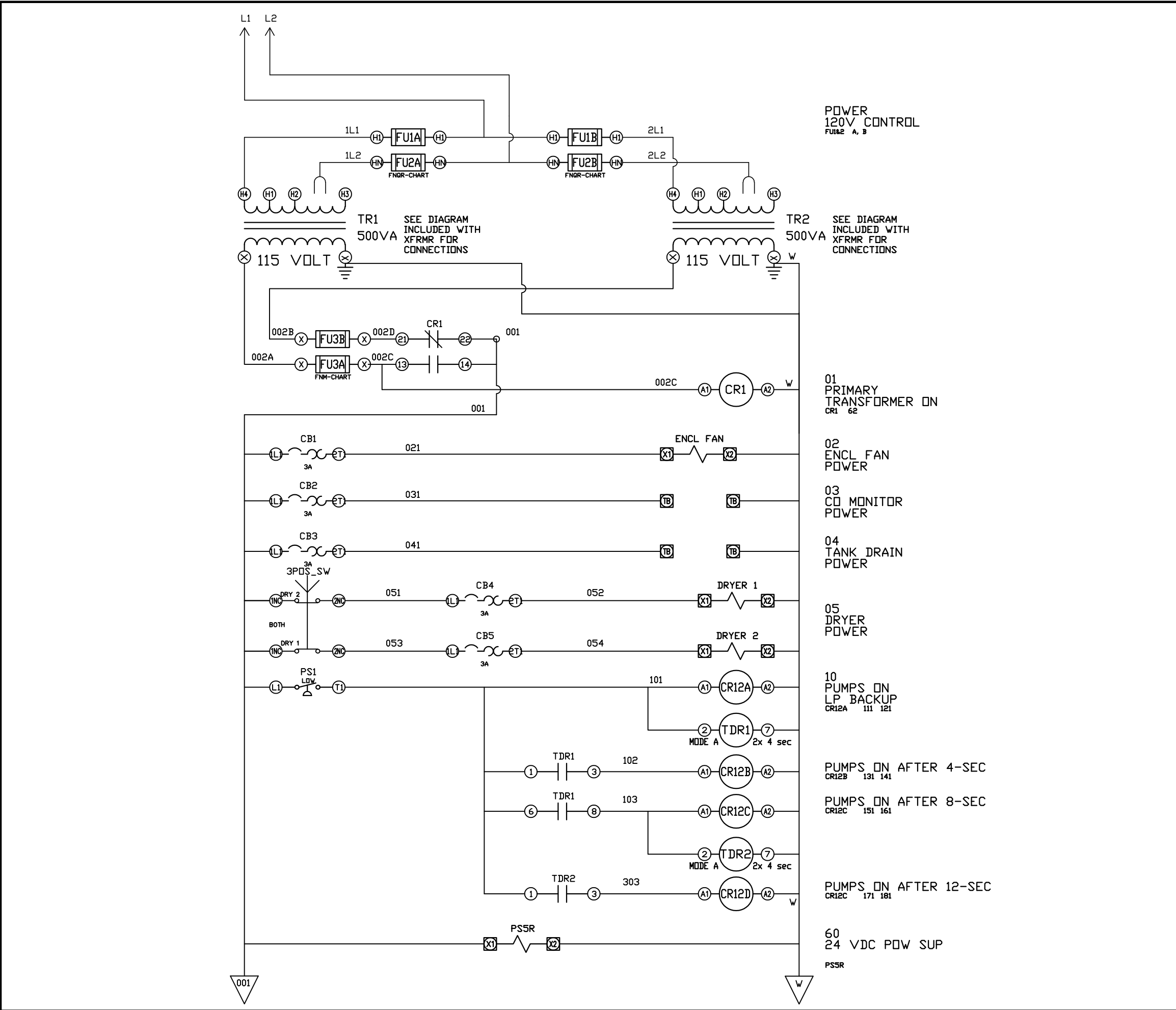
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25

PANEL TYPE
OCTOPLX MEDICAL COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START, PLEX ISO

DWG. TYPE WIRING

DWG. NO.
PXMI-AS816

SHEET	SIZE
W-1	B



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	3/26/25	PXEC0667	SEK	JRD

POWER
120V CONTROL
FU1&2 A, B

SEE DIAGRAM
INCLUDED WITH
XFRMR FOR
CONNECTIONS

01
PRIMARY
TRANSFORMER ON
CR1 62

02
ENCL FAN
POWER

03
CD MONITOR
POWER

04
TANK DRAIN
POWER

05
DRYER
POWER

10
PUMPS ON
LP BACKUP
CR12A 111 121

PUMPS ON AFTER 4-SEC
CR12B 131 141

PUMPS ON AFTER 8-SEC
CR12C 151 161

PUMPS ON AFTER 12-SEC
CR12C 171 181

60
24 VDC POW SUP

PS5R

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25

PANEL TYPE

OCTOPLX MEDICAL COMP

HMI, BACNET, WEBSVR, NFPA, SOFT START, PLEX ISO

DWG. TYPE WIRING

DWG. NO.

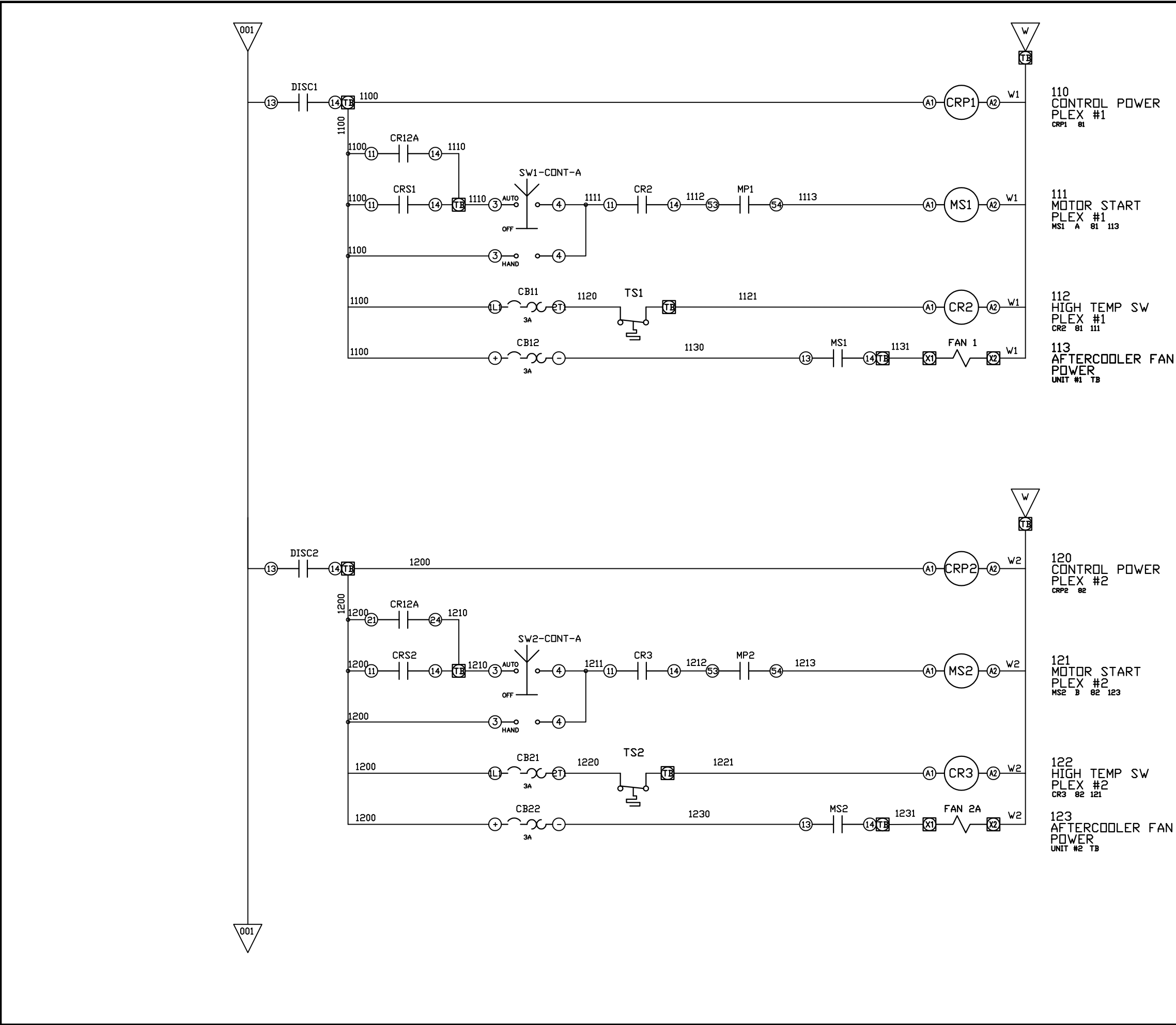
PXMI-AS816

SHEET

W-2

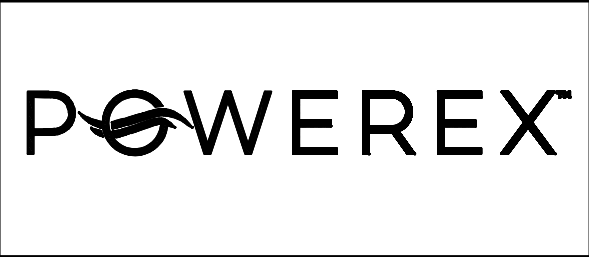
SIZE

B



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	3/26/25	PXEC0667	SEK	JRD

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25

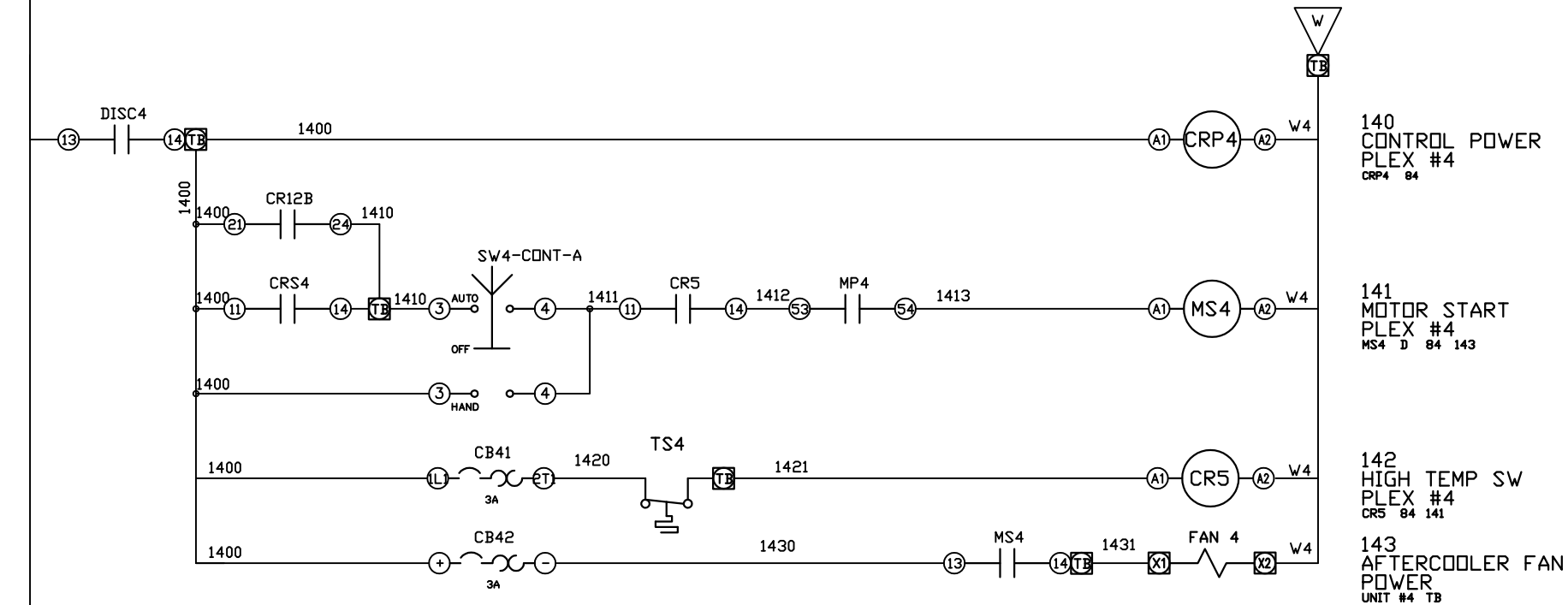
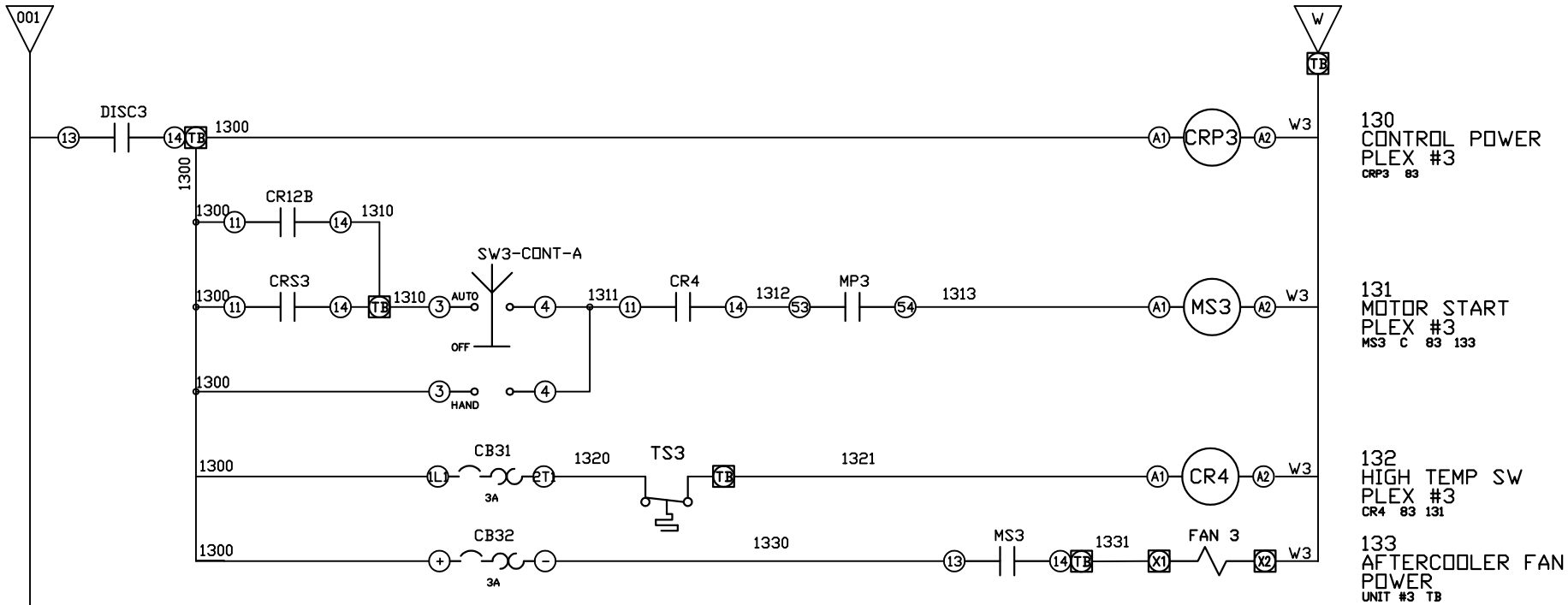
PANEL TYPE
OCTOPLX MEDICAL COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE WIRING

DWG. NO.
PXMI-AS816

SHEET	SIZE
W-3	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	12/12/24	PXEC0667	SEK	JRD



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25

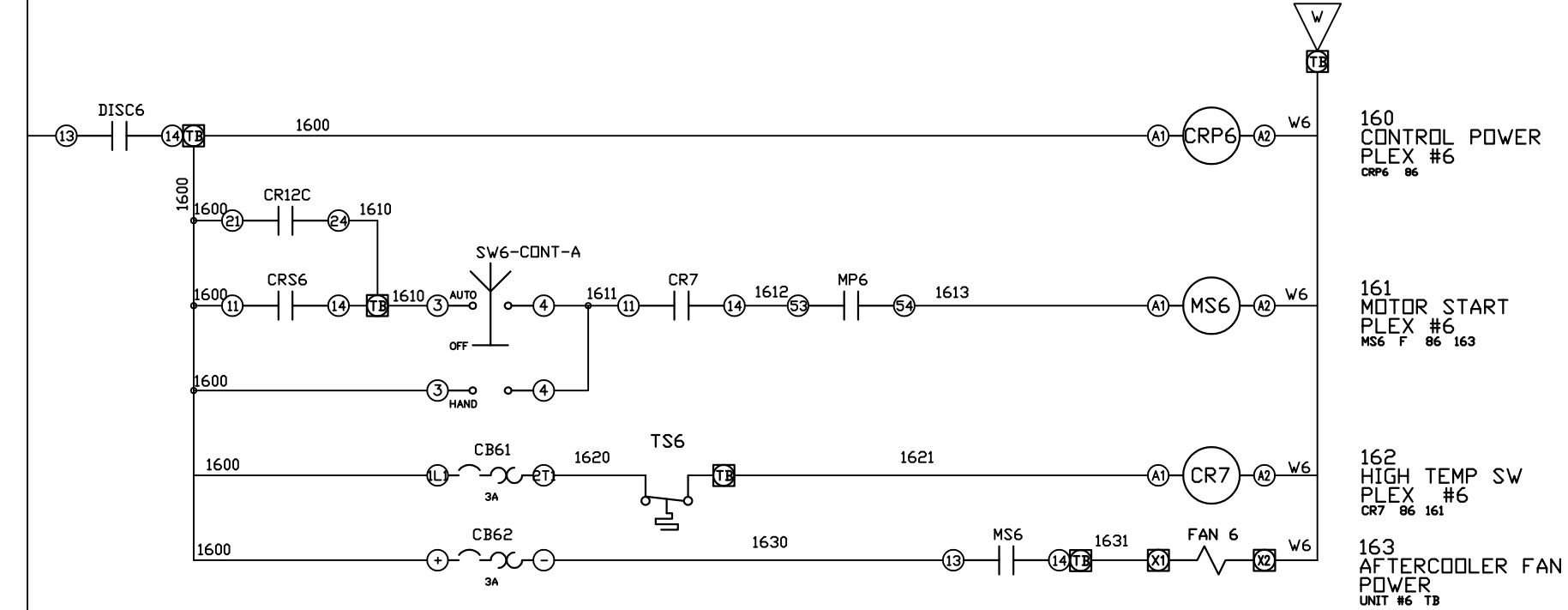
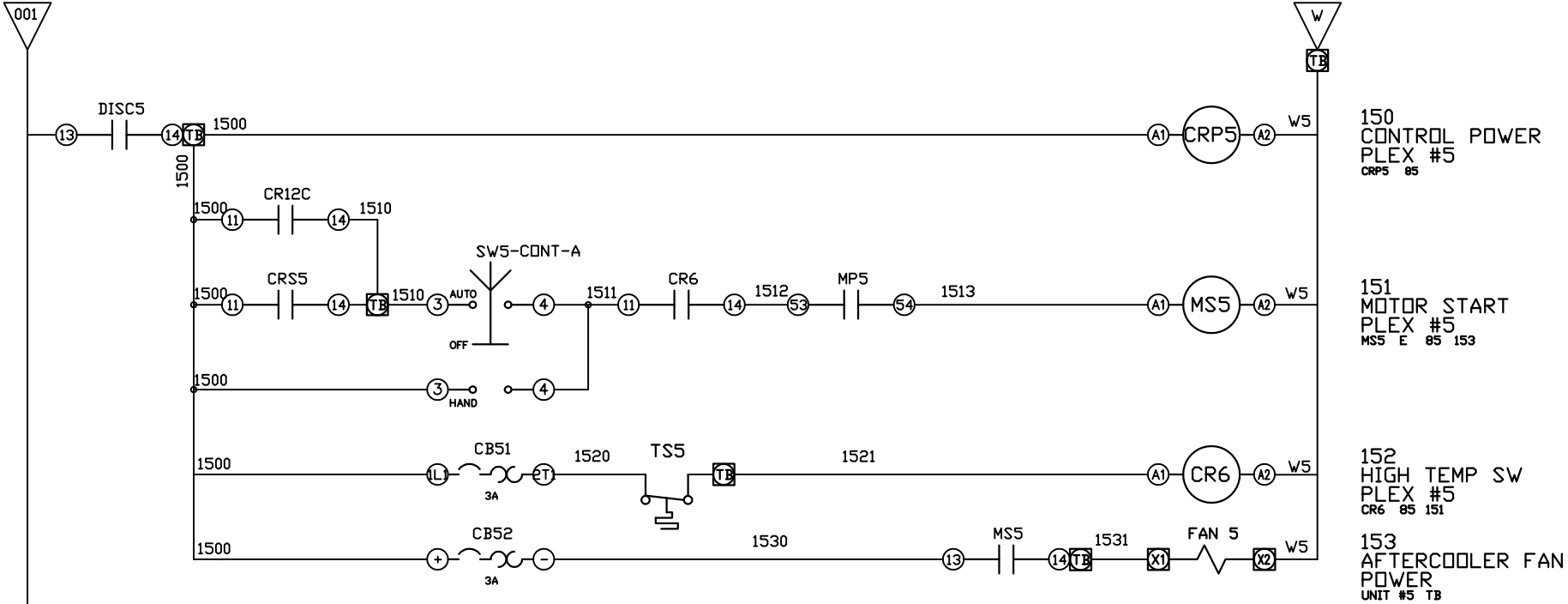
PANEL TYPE
OCTOPLX MEDICAL COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE
WIRING

DWG. NO.
PXMI-AS816

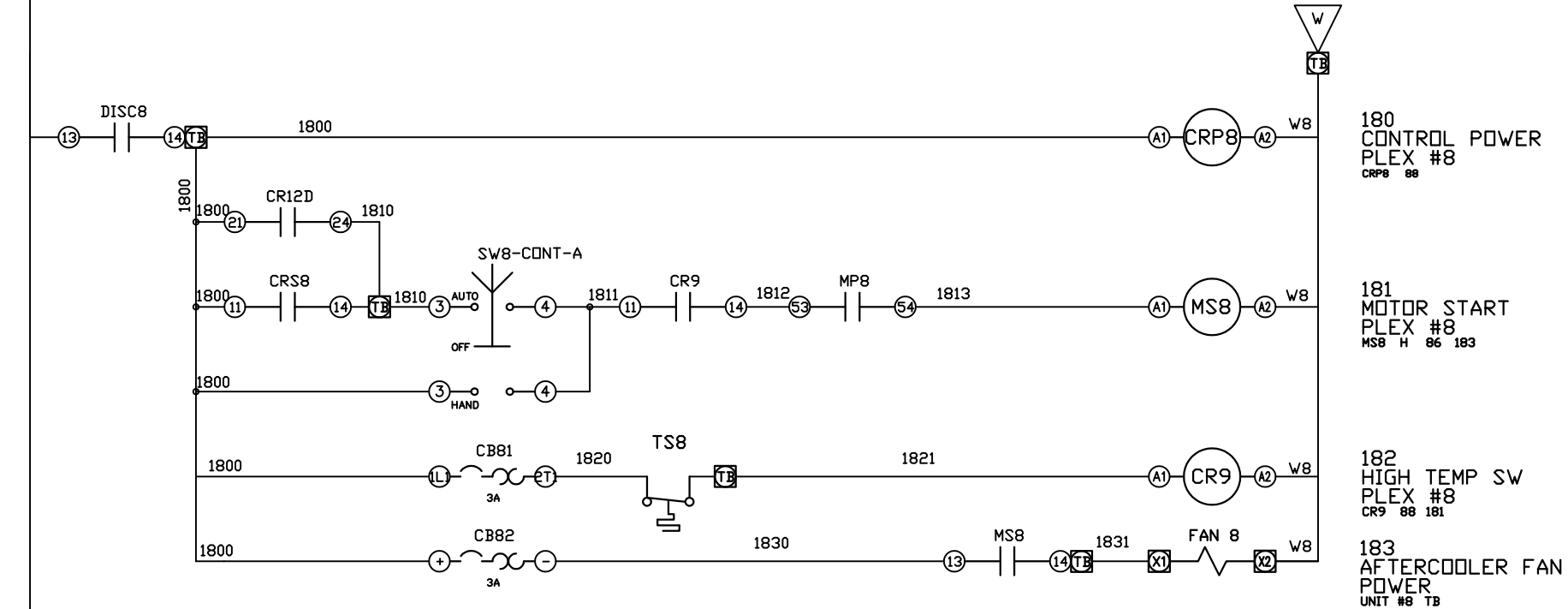
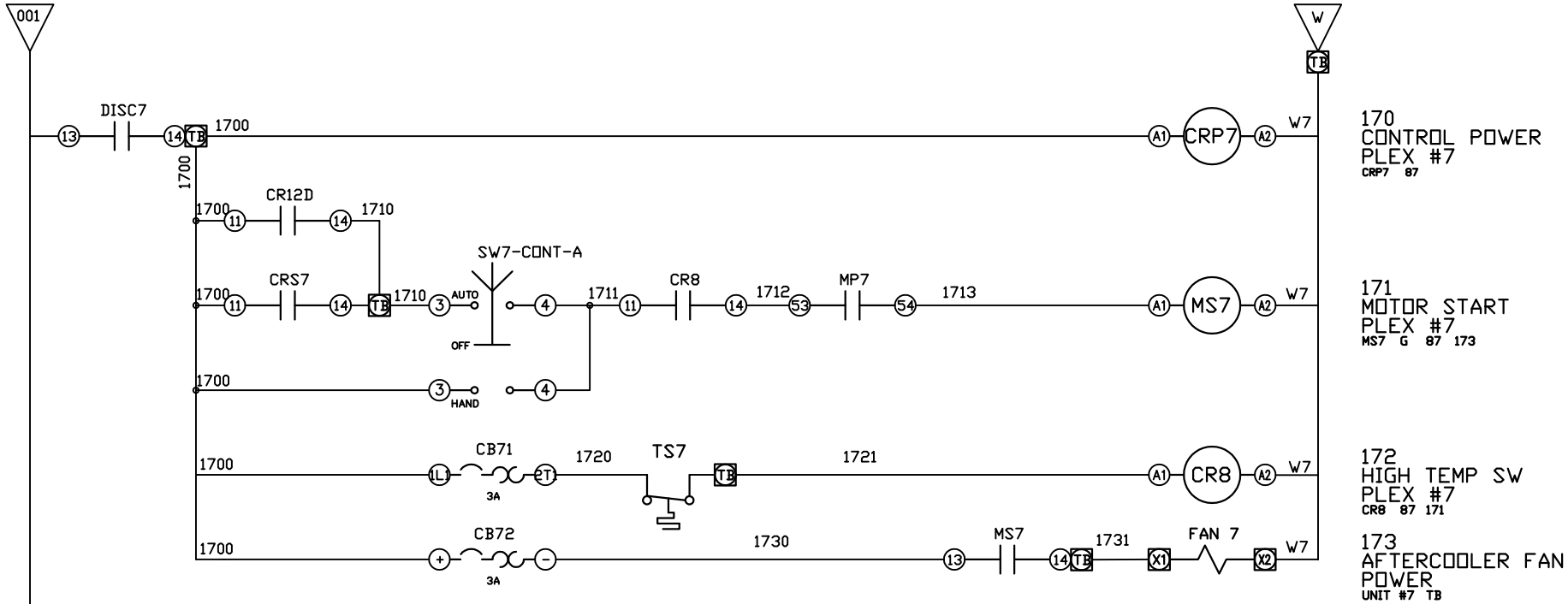
SHEET	SIZE
W-4	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	12/12/24	PXEC0667	SEK	JRD



OPTIONAL:		
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25
PANEL TYPE		
OCTOPLX MEDICAL COMP		
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO		
DWG. TYPE WIRING		
DWG. NO. PXMI-AS816		
SHEET		SIZE
W-5		B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	12/12/24	PXEC0667	SEK	JRD



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25

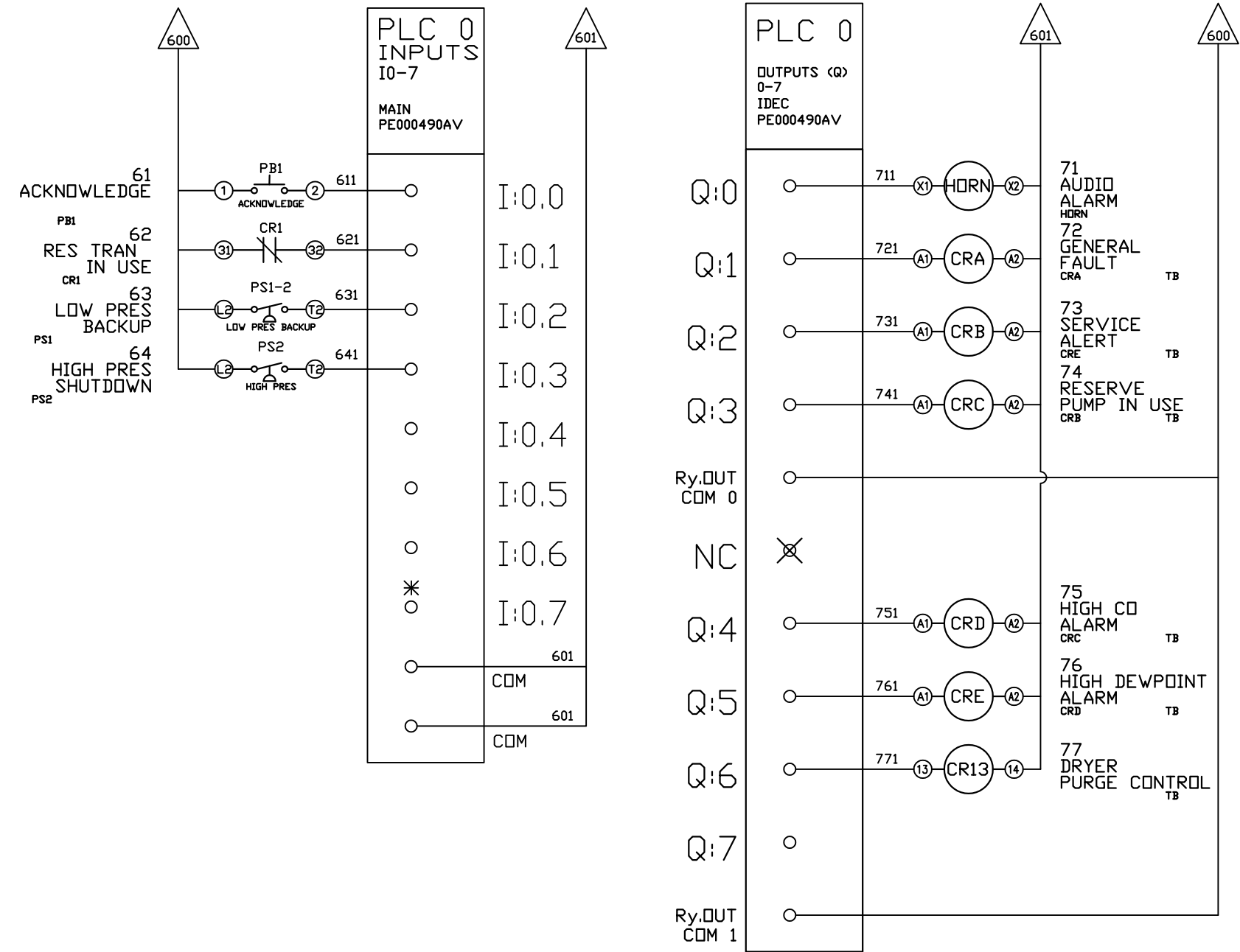
PANEL TYPE
OCTOPLX MEDICAL COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE
WIRING

DWG. NO.
PXMI-AS816

SHEET	SIZE
W-6	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	3/26/25	PXEC0667	SEK	JRD



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25

PANEL TYPE

OCTOPLX MEDICAL COMP

HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

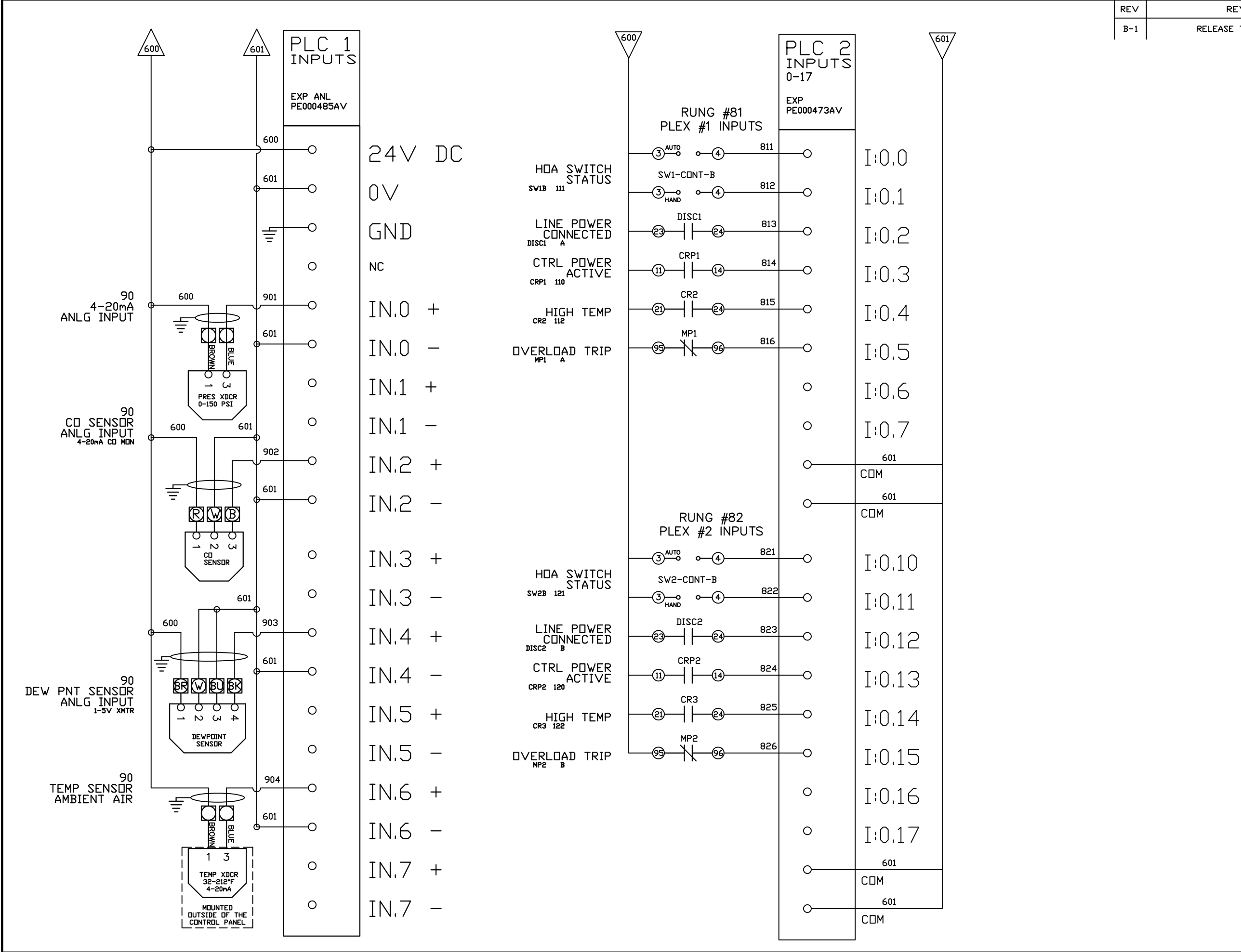
DWG. TYPE WIRING

DWG. NO. PXMI-AS816

SHEET	SIZE
W-8	B

PXMI-AS816

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	3/26/25	PXEC0667	SEK	JRD



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25

PANEL TYPE

OCTOPLX MEDICAL COMP

HMI, BACNET, WEBSVR, NFPA, SOFT START, PLEX ISO

DWG. TYPE WIRING

DWG. NO.

PXMI-AS816

SHEET

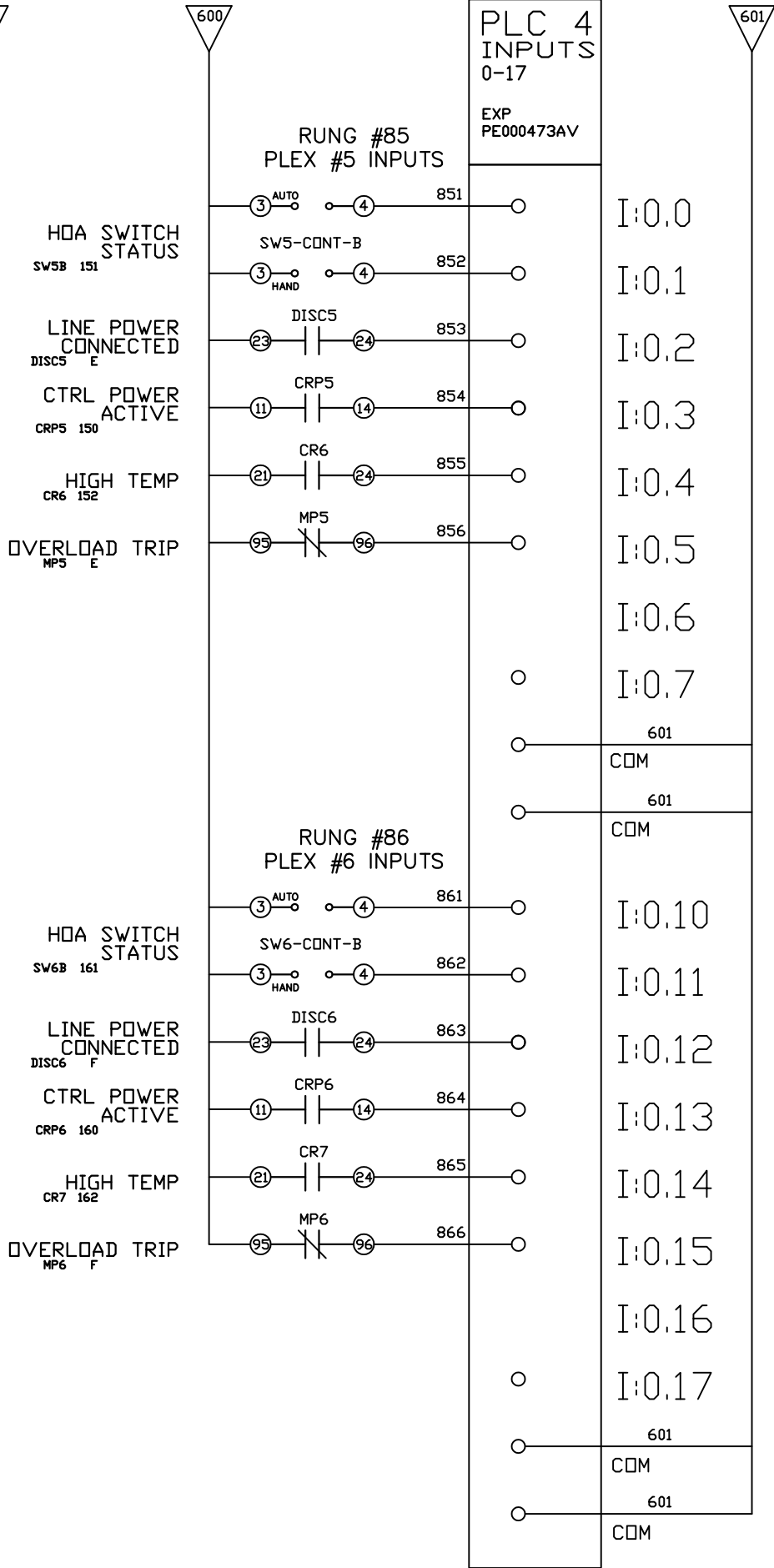
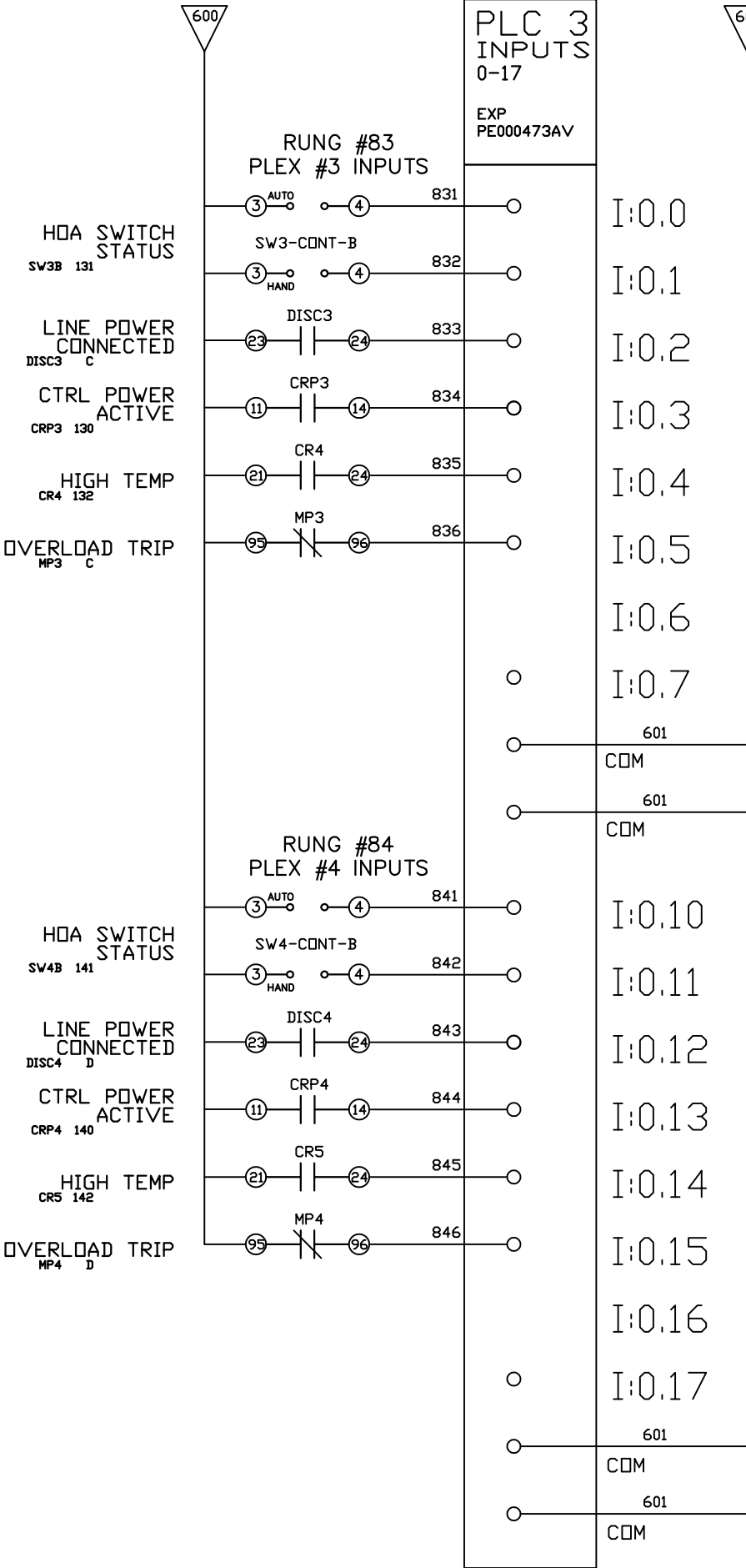
W-9

SIZE

B

PXMI-AS816

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	3/26/25	PXEC0667	SEK	JRD



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25

PANEL TYPE

OCTOPLX MEDICAL COMP

HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE WIRING

DWG. NO.

PXMI-AS816

SHEET

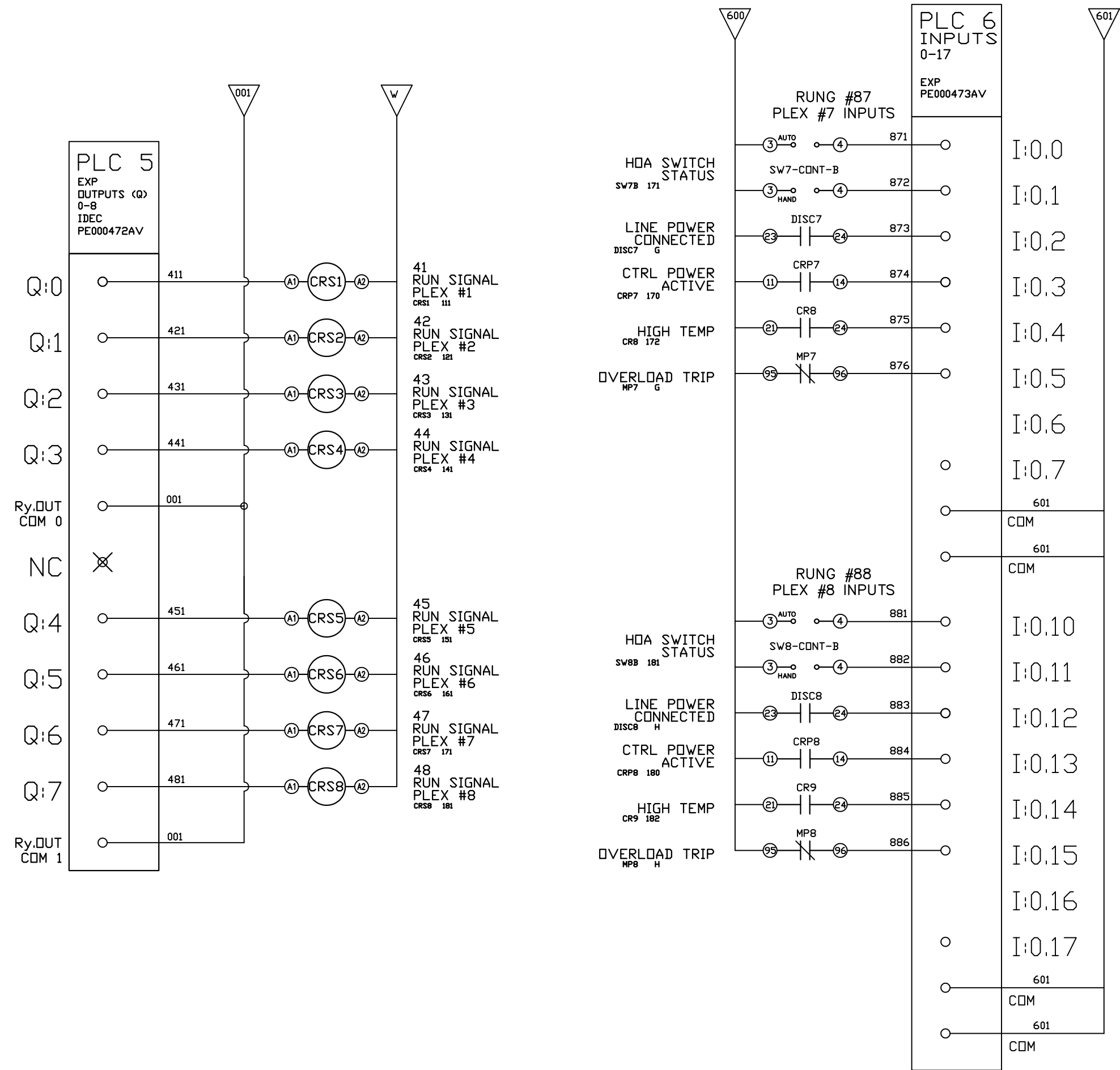
W-10

SIZE

B

PXMI-AS816

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	3/26/25	PXEC0667	SEK	JRD



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25

PANEL TYPE
OCTOPLX MEDICAL COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE
WIRING

DWG. NO.
PXMI-AS816

SHEET W-11	SIZE B
---------------	-----------

PXMI-AS816

SET START TIME TO B (3-SEC)

SET INITIAL VOLT SETTING TO D (67%)

SET STOP TIME TO C (5-SEC)

69
MOTOR#1 SOFT START

SS1 690

690

ATS01222RT

○ R1A

○ R1C

○ COM

○ LI 1

○ LI 2

○ LI+

○ BOOST

○ LD 1

69
MOTOR#2 SOFT START

SS2 690

691

ATS01222RT

○ R1A

○ R1C

○ COM

○ LI 1

○ LI 2

○ LI+

○ BOOST

○ LD 1

69
MOTOR#3 SOFT START

SS3 690

692

ATS01222RT

○ R1A

○ R1C

○ COM

○ LI 1

○ LI 2

○ LI+

○ BOOST

○ LD 1

69
MOTOR#4 SOFT START

SS4 690

693

ATS01222RT

○ R1A

○ R1C

○ COM

○ LI 1

○ LI 2

○ LI+

○ BOOST

○ LD 1

69
MOTOR#5 SOFT START

SS5 690

694

ATS01222RT

○ R1A

○ R1C

○ COM

○ LI 1

○ LI 2

○ LI+

○ BOOST

○ LD 1

69
MOTOR#6 SOFT START

SS6 690

695

ATS01222RT

○ R1A

○ R1C

○ COM

○ LI 1

○ LI 2

○ LI+

○ BOOST

○ LD 1

69
MOTOR#7 SOFT START

SS7 690

696

ATS01222RT

○ R1A

○ R1C

○ COM

○ LI 1

○ LI 2

○ LI+

○ BOOST

○ LD 1

69
MOTOR#8 SOFT START

SS8 690

697

ATS01222RT

○ R1A

○ R1C

○ COM

○ LI 1

○ LI 2

○ LI+

○ BOOST

○ LD 1

REV

REVISION

DATE

ECN

NAME

CHKD

B-1

RELEASE TO PRODUCTION

3/26/25

PXEC0667

SEK

JRD

OPTIONAL:

POWEREX™

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DRAWN BY

CHECKED BY

ENGINEERING APPROVAL

SEK

JRD

JRD

3/26/25

3/26/25

3/26/25

PANEL TYPE

OCTOPLEX MEDICAL COMP

HMI, BACNET, WEBSVR, NFPA, SOFT START. PLEX ISO

DWG. TYPE

WIRING

DWG. NO.

PXMI-AS816

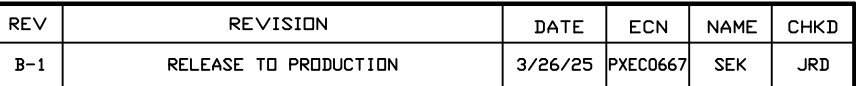
SHEET

W-12

SIZE

B

PXMI-AS816



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



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PANEL TYPE
OCTOPLX MEDICAL COMP
HMI, BACNET, WEBSVR, NFPA, SOFT START, PLEX ISO

DWG. NO.
PXMI-AS816

SHEET	SIZE
W-13	B

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)	02AJ	4.1	34.8	45	40	45
	12AJ	4.5	38	50	45	50
	22AJ	5.6	46.8	60	60	60
	32AJ	8.8	72.4	90	80	90
	52AJ	14.6	118.8	150	150	150
	72AJ	20.5	166	225	200	200
	A2AJ *	27.4	221.2	300	250	300
	F2AJ *	41.1	330.8	450	400	400
230V (3Ø)	03AJ	3.6	30.8	40	35	40
	13AJ	4.4	37.2	50	45	45
	23AJ	5.8	48.4	60	60	60
	33AJ	7.7	63.6	80	70	80
	53AJ	12.7	103.6	150	125	125
	73AJ	18.5	150	200	175	200
	A3AJ	24.8	200.4	250	225	250
	F3AJ *	37.2	299.6	400	350	400
460V (3Ø)	04AJ	1.8	16.4	20	20	20
	14AJ	2.2	19.6	25	25	25
	24AJ	2.7	23.6	30	30	30
	34AJ	3.9	33.2	45	40	40
	54AJ	6.3	52.4	70	60	70
	74AJ	9.3	76.4	100	90	100
	A4AJ	12.4	101.2	150	125	125
	F4AJ	18.6	150.8	200	175	200
380V (3Ø) 50HZ	08AJ					
	18AJ					
	28AJ	3.4	29.2	40	35	35
	38AJ	4.6	38.8	50	45	50
	58AJ	7.7	63.6	80	70	80
	78AJ	11.1	90.8	125	100	110
	A8AJ	14.9	121.2	175	150	150
	F8AJ	22.1	178.8	225	200	225
575V (3Ø)	07AJ	1.1	10.8	15	15	15
	17AJ					
	27AJ	2.3	20.4	25	25	25
	37AJ	3.1	26.8	35	30	35
	57AJ	5.1	42.8	60	50	60
	77AJ	6.9	57.2	80	70	70
	A7AJ	9.9	81.2	110	90	100
	F7AJ	14.9	121.2	175	150	150

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 FOR THIS ELECTRICAL ASSEMBLY. SHORT CIRCUIT PROTECTION IS RECOMMENDED, SEE TABLE 1. IF PROVIDING PANEL SHORT CIRCUIT PROTECTION USING CLASS J TIME DELAY FUSES, PANEL SCCR IS 65kA. OTHERWISE, PANEL SCCR IS 5kA.

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. Δ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.

7. SERVICE DISCONNECT USAGE - turn HOA switch to OFF position. Turn disconnect OF SAME UNIT to OFF position. Associated PLEX will be isolated for maintenance purposes. After completing maintenance, turn disconnect to ON position and return HOA switch to AUTO. This will return PLEX to normal operation.

CONTROL TRANSFORMERS - 500VA

REPLACEMENT	208	230	460	575	
FUSE TYPE	VOLT	VOLT	380 VOLT	VOLT	
FU1,2A FU1,2B	FNQR (CC)	6A	5A	5A	4A
FU3A,B	FNM	7A	7A	7A	7A
SEE XFRMR FOR CONNECTIONS					

WIRE TYPE TABLE

VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-599,1100+	16-18AWG	RED/BLK
0VAC	W	16-18AWG	WHT/BLK
24VDC	600-1099	16-18AWG	PURPLE
0VDC	601	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16-18AWG	YELLOW

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:

208V-575V



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
AJL	KMD	KMD
01/06/15	01/06/15	01/06/15

PANEL TYPE

COMPRESSOR DATA TABLE
3PH 8-PLEX PANEL DATA

DWG. TYPE	MISC
DWG. NO.	
DATA TABLE	
SHEET	SIZE
D-1	B

8-PLEX PANEL DATA

REV

B-1

REVISION

RELEASE TO PRODUCTION

DATE

3/26/25

ECN

PXEC0667

NAME

SEK

CHKD

JRD

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 FOR THIS ELECTRICAL ASSEMBLY. SHORT CIRCUIT PROTECTION IS RECOMMENDED, SEE TABLE 1. IF PROVIDING PANEL SHORT CIRCUIT PROTECTION USING CLASS J TIME DELAY FUSES, PANEL SCCR IS 65kA. OTHERWISE, PANEL SCCR IS 5kA.

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. Δ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.

7. SERVICE DISCONNECT USAGE - turn HOA switch to OFF position. Turn disconnect OF SAME UNIT to OFF position. Associated PLEX will be isolated for maintenance purposes. After completing maintenance, turn disconnect to ON position and return HOA switch to AUTO. This will return PLEX to normal operation.

TABLE 1

PANEL DATA 3 ϕ - 60 Hz
500VA CONTROL CIRCUIT

(A) LOAD SPECIFICATIONS

PANEL PART NUMBER

MOTOR SIZE EACH

(A) POWER (V/PH)

(A) MOTOR LOAD EACH (FLA)

PANEL LOAD TOTAL (FLA)

PBMAS816A4AJ

10

460V/3 ϕ

12

98A

(B) BRANCH CIRCUIT PROTECTION - PROVIDED BY INSTALLER

NONTIME DELAY FUSE

TIME-DELAY FUSE

INVERSE-TIME CIRCUIT BREAKER

125A

110A

125A

NOTE- ADJUST OVERCURRENT PROTECTION DEVICE TO 115% OF MOTOR NAMEPLATE FLA VALUE

CONTROL TRANSFORMERS - 500VA

REPLACEMENT	208	230	460 380	575
FUSE TYPE	VOLT	VOLT	VOLT	VOLT
FU1,2A FU1,2B	FNQR (CC)	6A	5A	5A
FU3A,B	FNM	7A	7A	7A

SEE XFRMR FOR CONNECTIONS

WIRE TYPE TABLE

VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001-599,1100+	16-18AWG	RED/BLK
0VAC	W	16-18AWG	WHT/BLK
24VDC	600-1099	16-18AWG	PURPLE
0VDC	601	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16-18AWG	YELLOW

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:

POWEREX

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
SEK	JRD	JRD
3/26/25	3/26/25	3/26/25

PANEL TYPE

OCTOPLX MEDICAL COMP

HMI, BACNET, WEBSRV, NFPA, SOFT START. PLEX ISO

DWG. TYPE

DATA

DWG. NO.

PXMI-AS816

SHEET

DATA-1

SIZE

B

PXMI-AS816