REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/05/25	PXEC0667	BTS	SEK

OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/05/25	05/05/25	05/05/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE WIRING

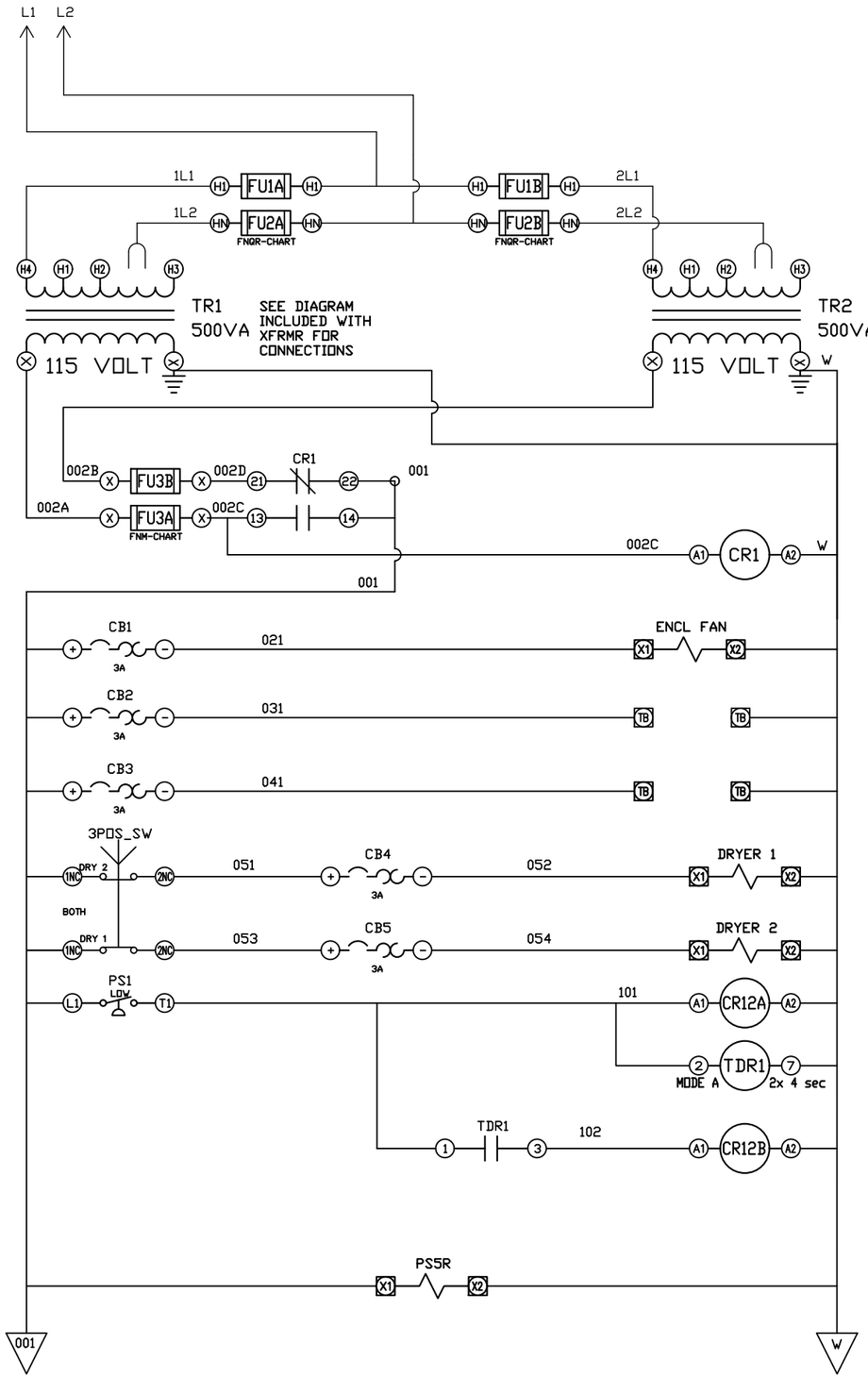
DWG. NO.

PXMI-AS316

SHEET	SIZE
W-1	B

PXMI-AS316

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/05/25	PXEC0667	BTS	SEK



POWER
120V CONTROL
FU1&2 A, B

01
PRIMARY
TRANSFORMER ON
CR1 00 02

02
ENCL FAN
POWER

03
CO MONITOR
POWER

04
TANK DRAIN
POWER

05
DRYER
POWER

10
PUMPS ON
LP BACKUP
CR12A 111 121

PUMPS ON AFTER 4-SEC
CR12B 131

60
24 VDC POW SUP
PS5R

OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/05/25	05/05/25	05/05/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE WIRING

DWG. NO.

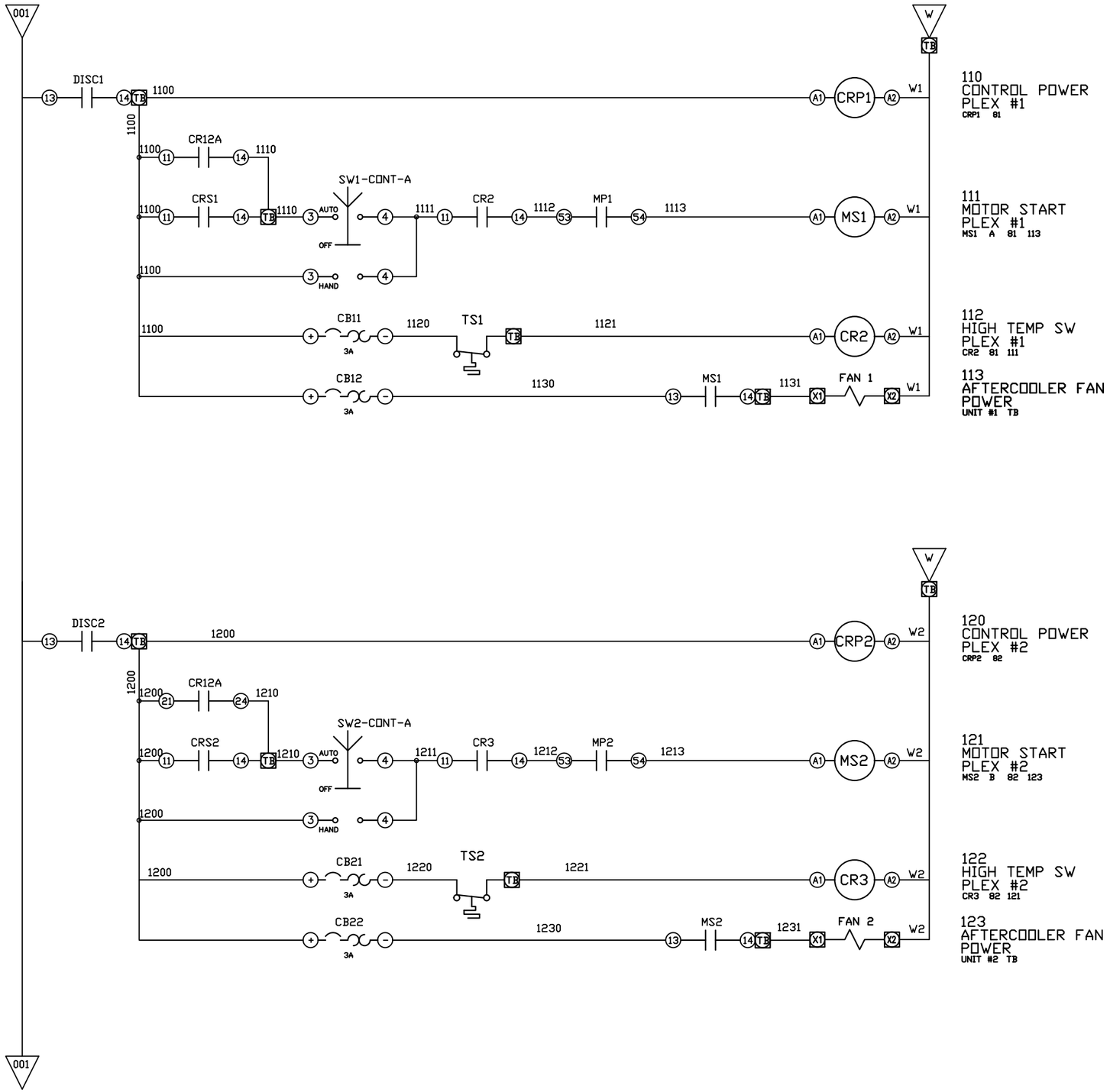
PXMI-AS316

SHEET W-2

SIZE B

PXMI-AS316

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/05/25	PXEC0667	BTS	SEK



OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/05/25	05/05/25	05/05/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE WIRING

DWG. NO.

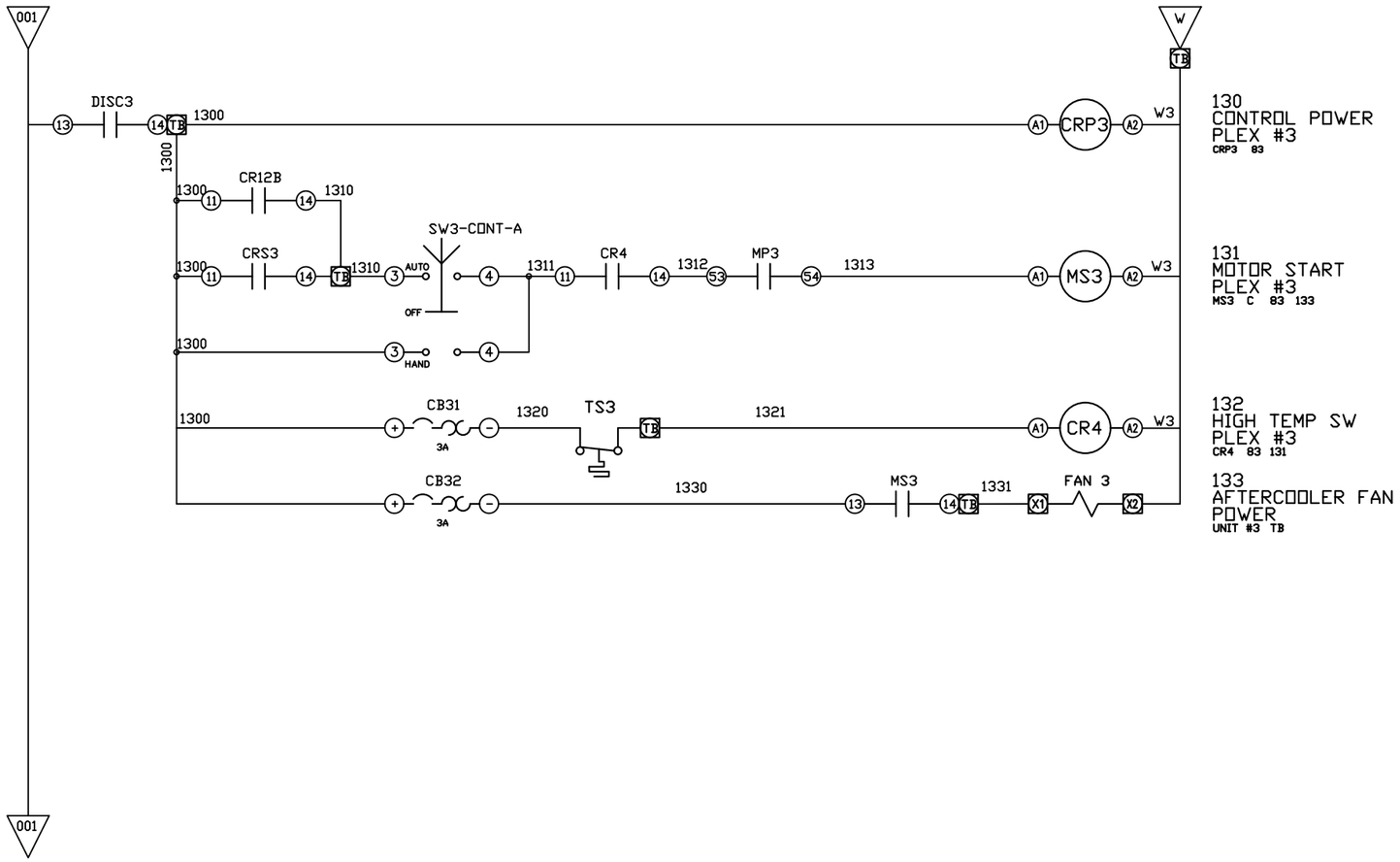
PXMI-AS316

SHEET W-3

SIZE B

PXMI-AS316

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/05/25	PXEC0667	BTS	SEK



OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/05/25	05/05/25	05/05/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE WIRING

DWG. NO.

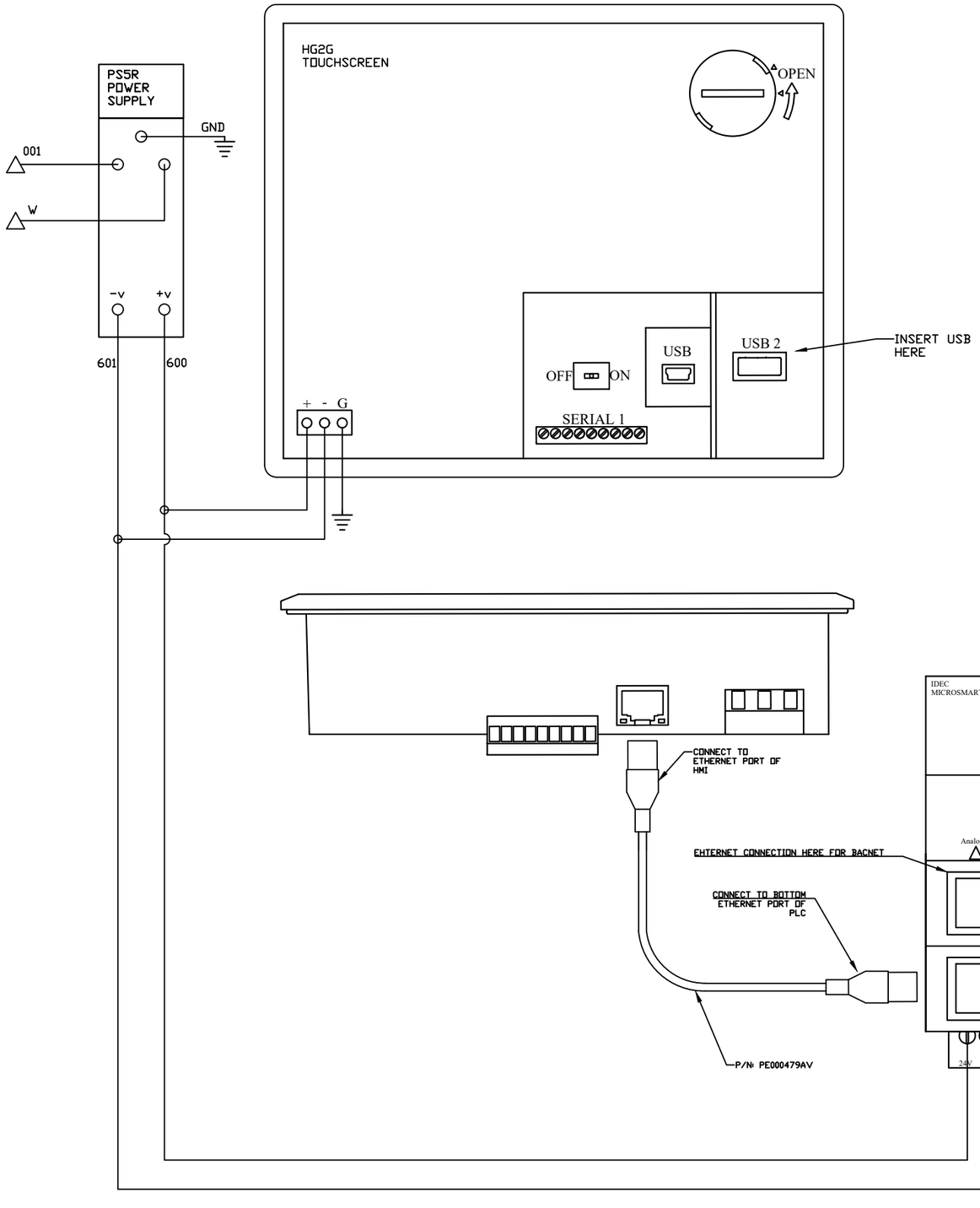
PXMI-AS316

SHEET W-4

SIZE B

PXMI-AS316

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/05/25	PXEC0667	BTS	SEK



OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/05/25	05/05/25	05/05/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE WIRING

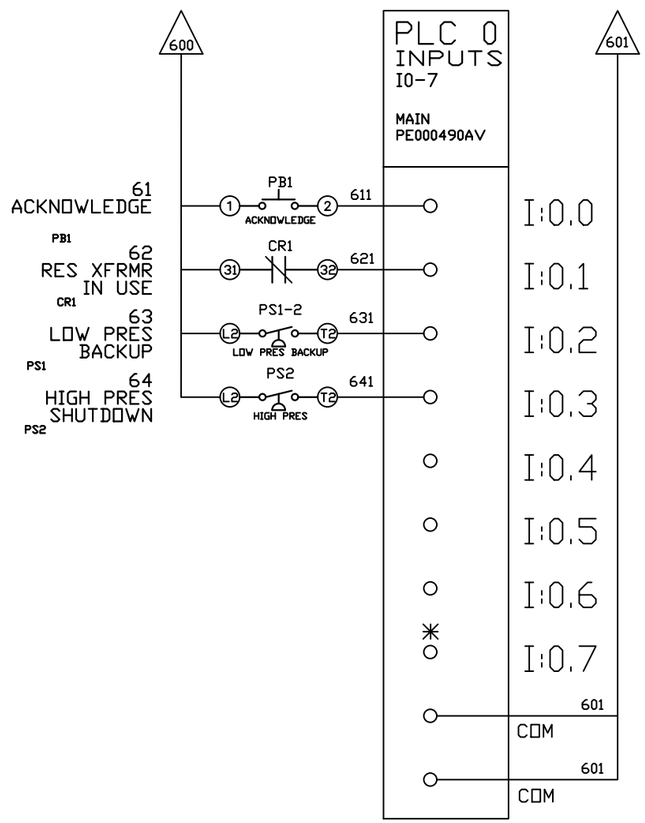
DWG. NO.

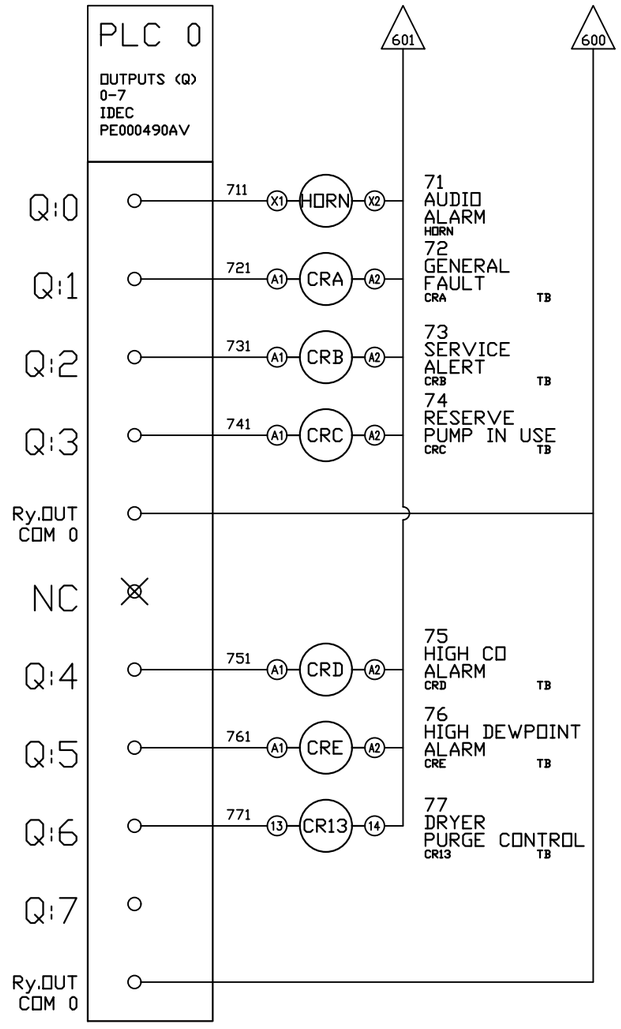
PXMI-AS316

SHEET W-5

SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/05/25	PXEC0667	BTS	SEK





*FACTORY TEST JUMPER LOCATION

OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/05/25	05/05/25	05/05/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE WIRING

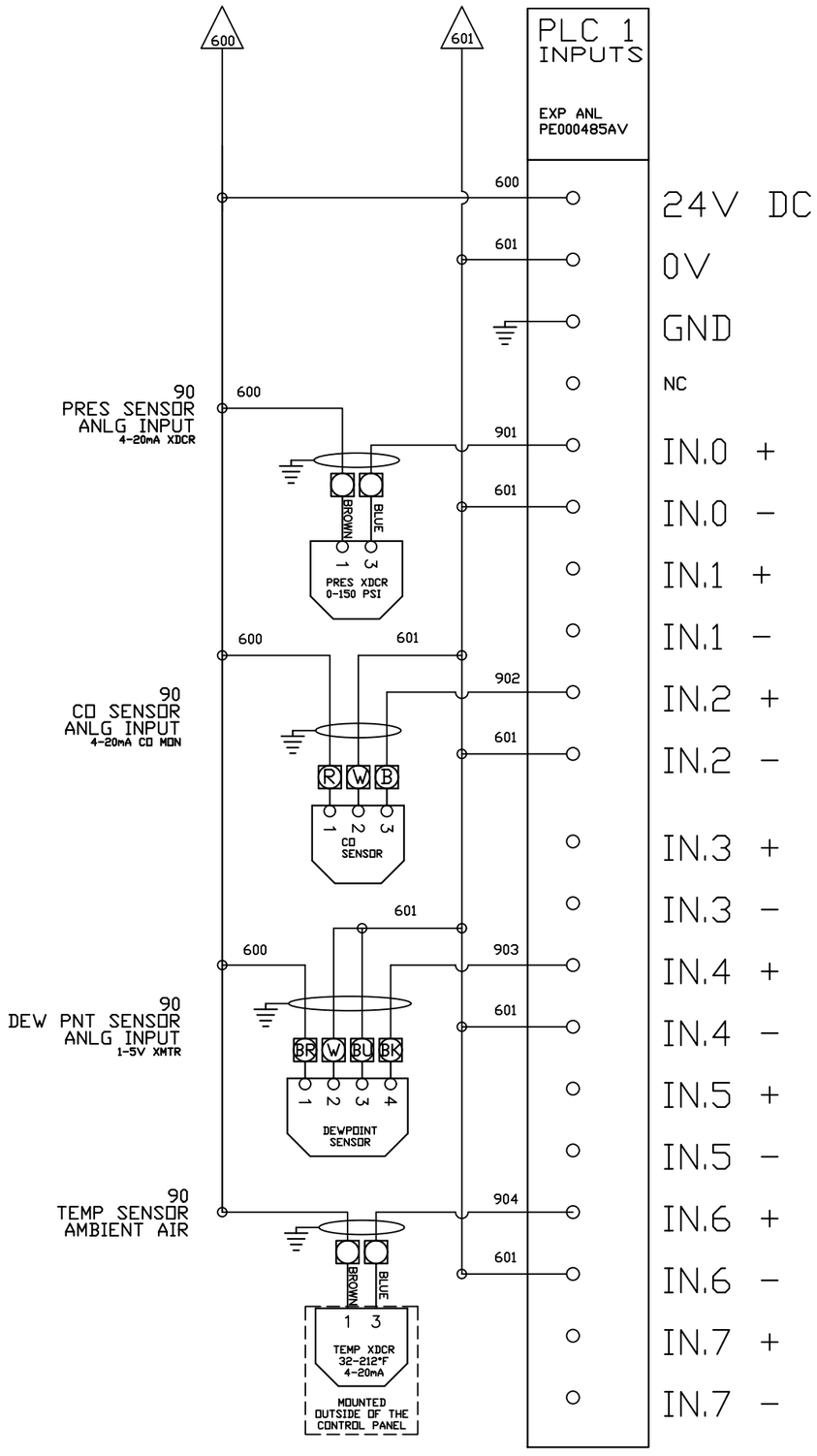
DWG. NO.

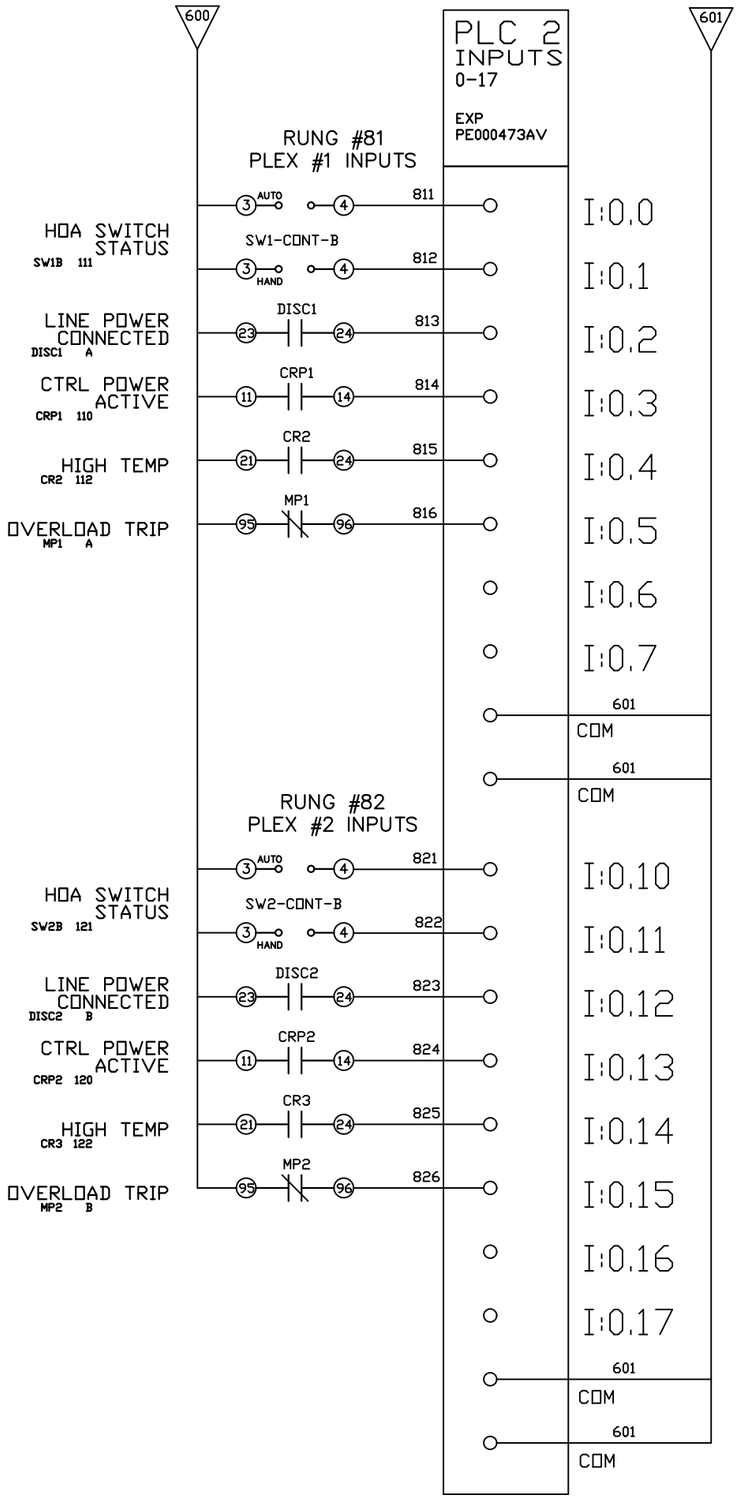
PXMI-AS316

SHEET	SIZE
W-6	B

PXMI-AS316

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/05/25	PXEC0667	BTS	SEK





OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/05/25	05/05/25	05/05/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE WIRING

DWG. NO.

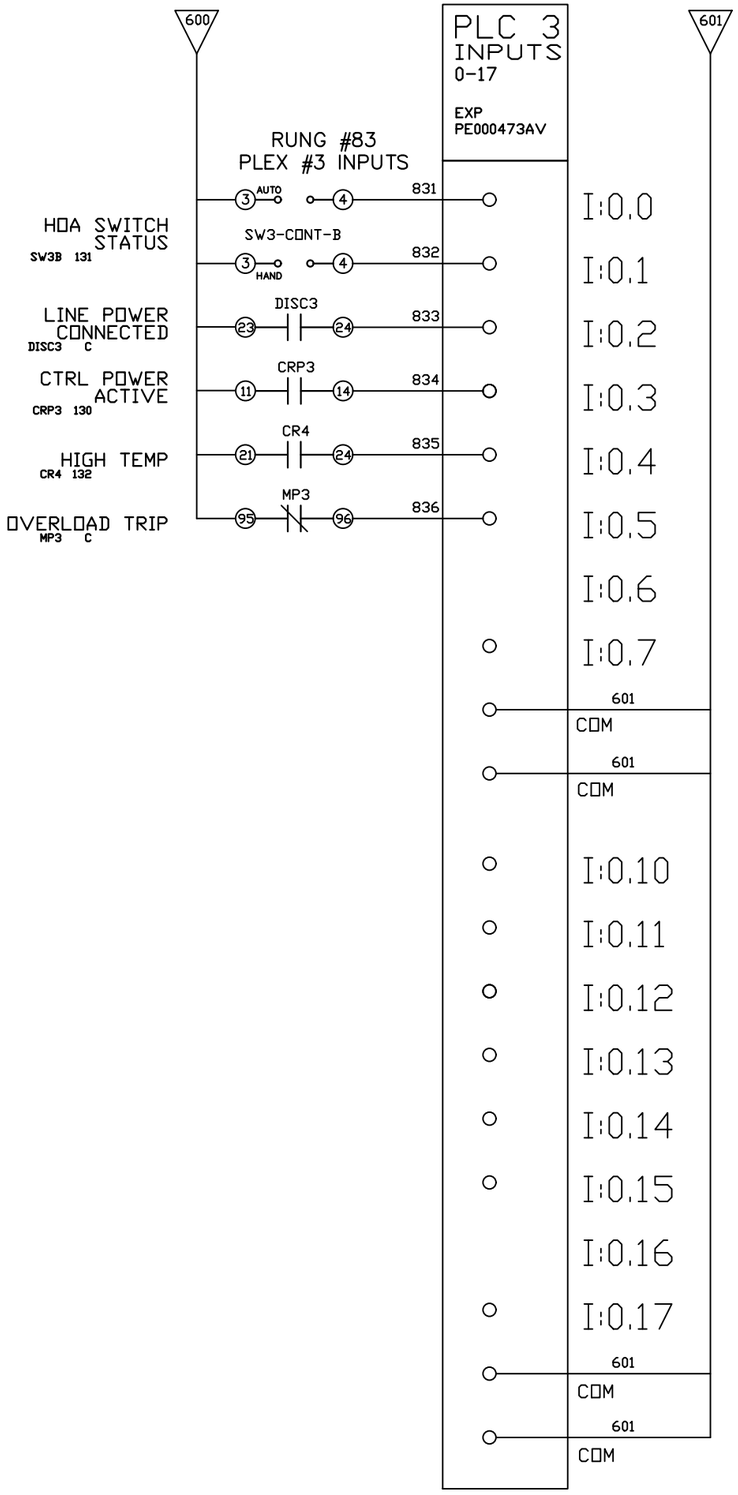
PXMI-AS316

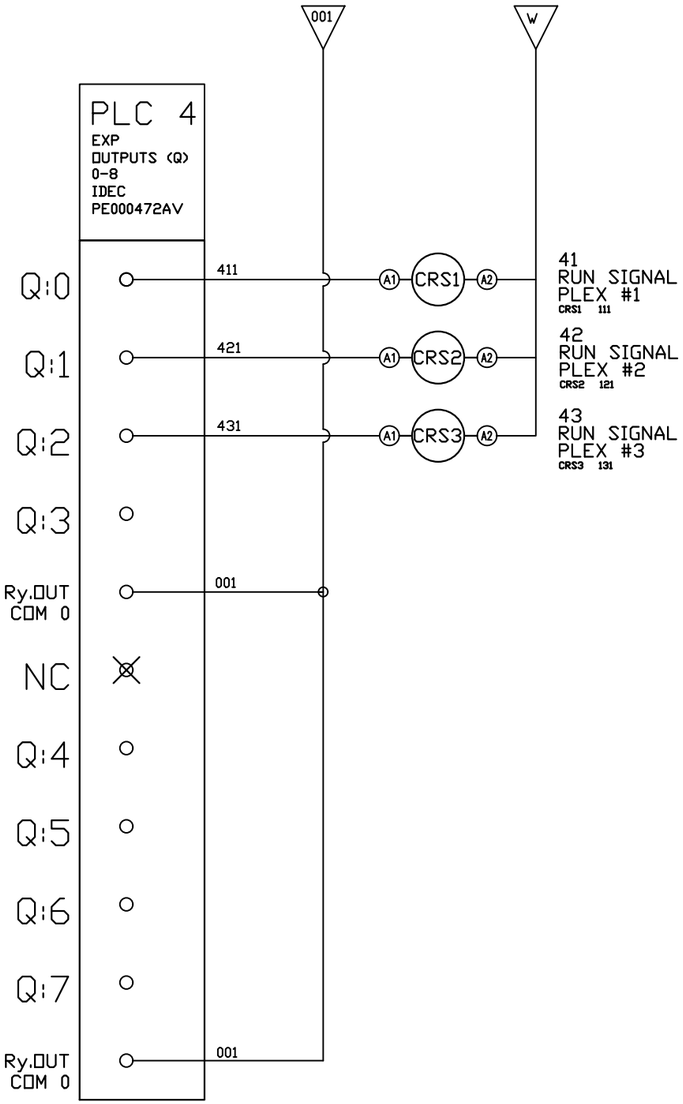
SHEET W-7

SIZE B

PXMI-AS316

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/05/25	PXEC0667	BTS	SEK





OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/05/25	05/05/25	05/05/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE WIRING

DWG. NO.

PXMI-AS316

SHEET W-8

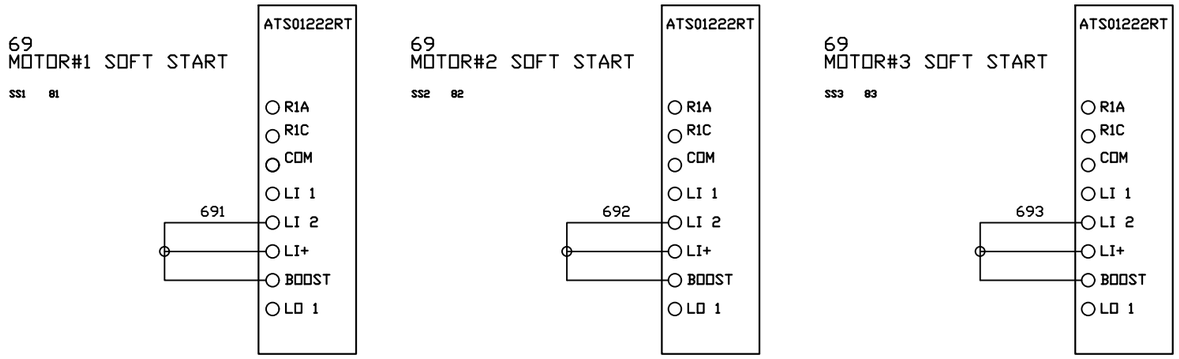
SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/05/25	PXEC0667	BTS	SEK

SET START TIME TO 3-SEC (B)

SET INITIAL VOLT SETTING TO 67% (D)

SET STOP TIME TO 60 SEC (C)



OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/05/25	05/05/25	05/05/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE WIRING

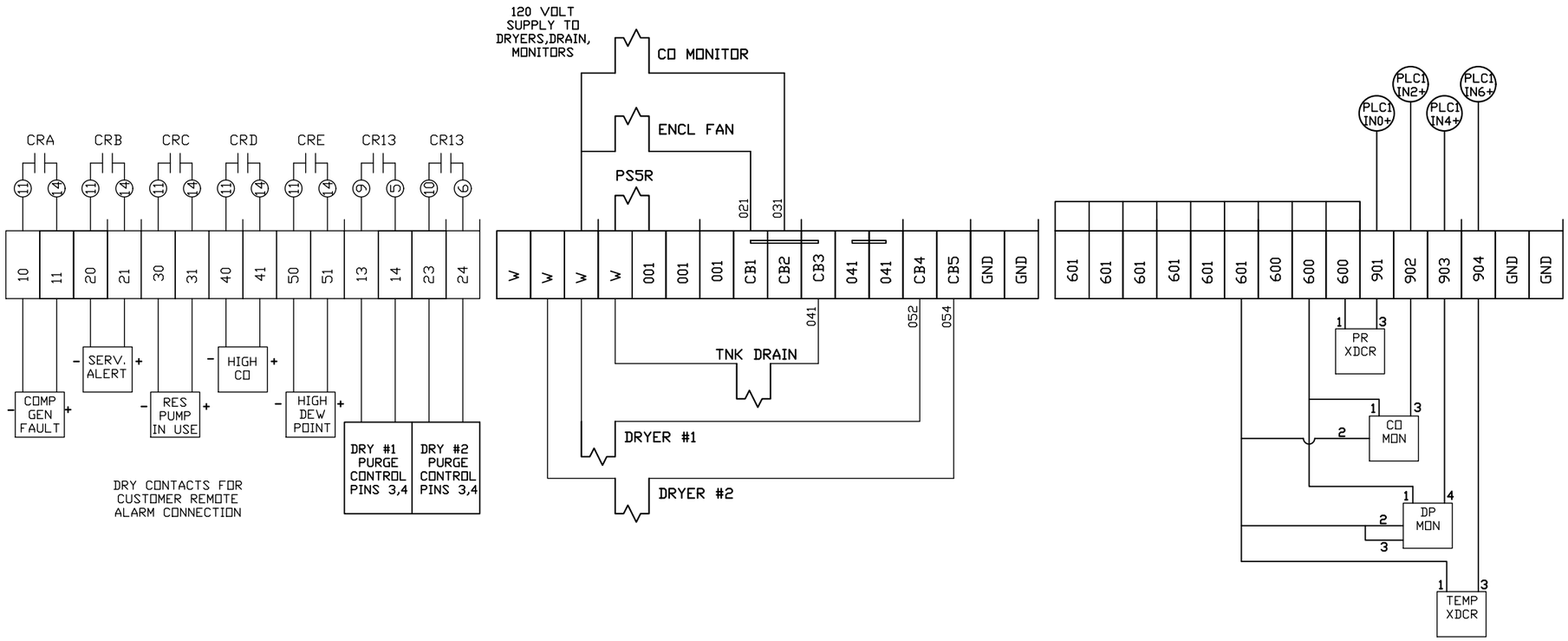
DWG. NO.

PXMI-AS316

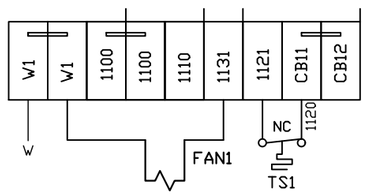
SHEET	SIZE
W-9	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/05/25	PXEC0667	BTS	SEK

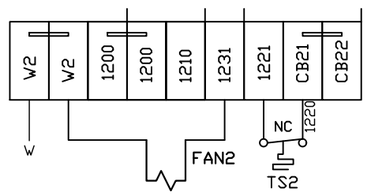
TERMINAL BLOCKS



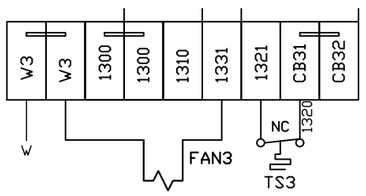
PLEX #1 CONNECTIONS



PLEX #2 CONNECTIONS



PLEX #3 CONNECTIONS



FIELD WIRING NOTES:

- 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

OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
05/05/25	05/05/25	05/05/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE WIRING

DWG. NO.

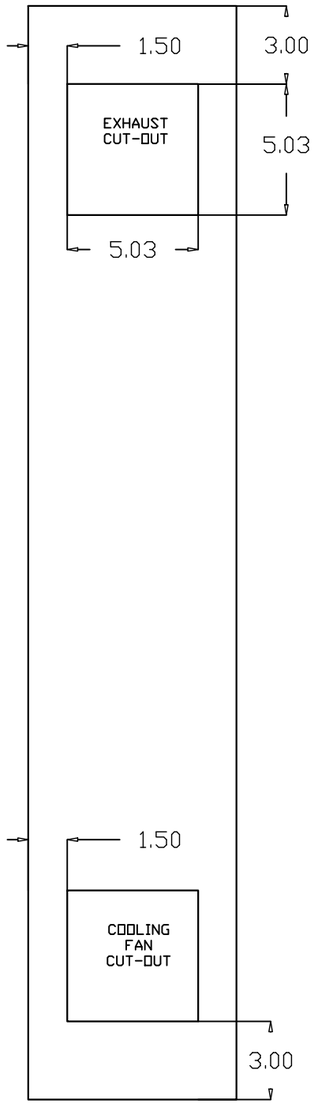
PXMI-AS316

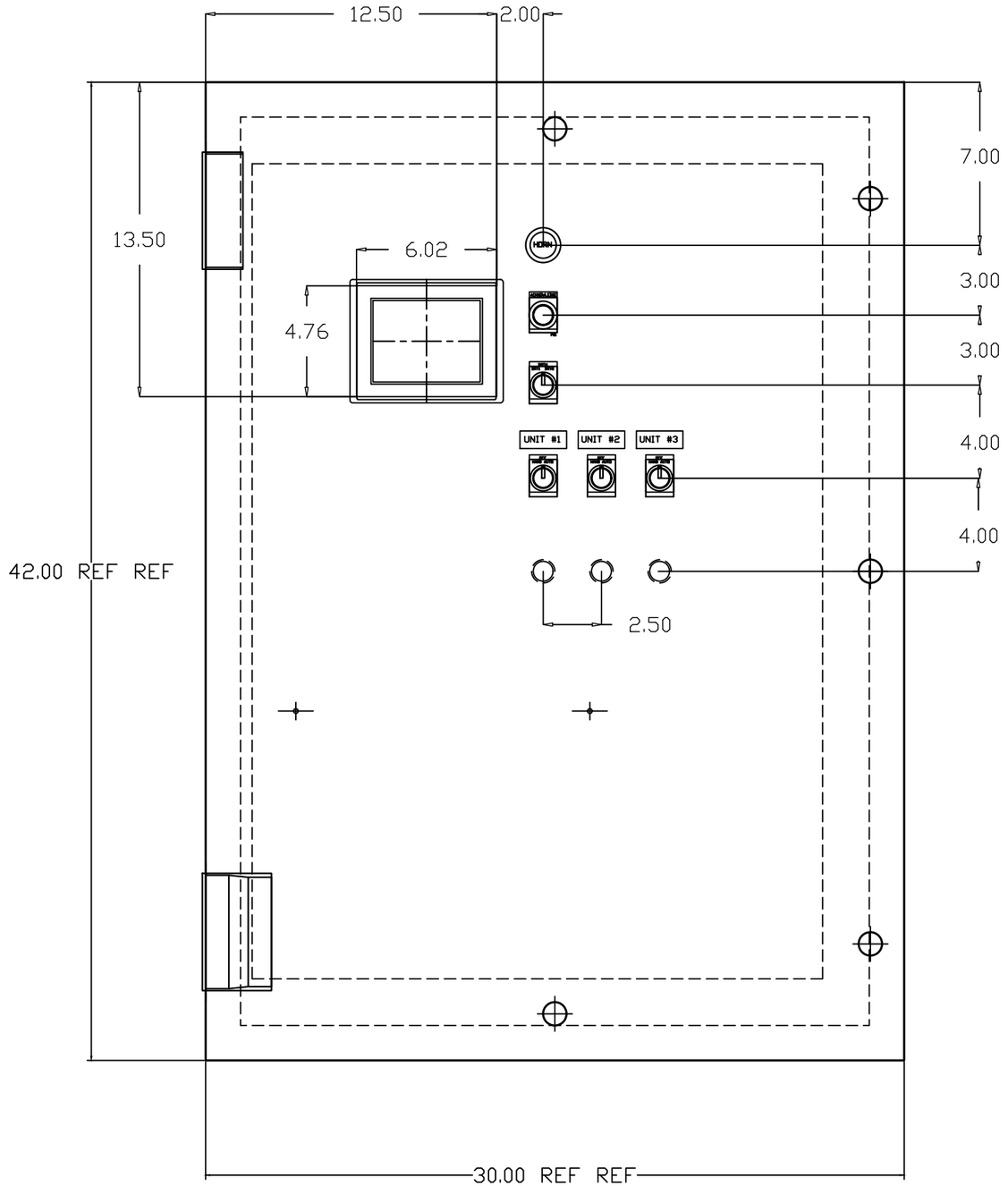
SHEET W-10

SIZE B

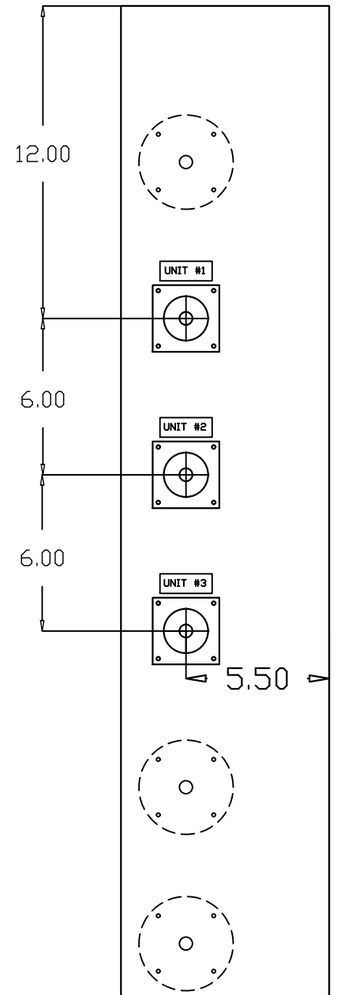
REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD

LEFT SIDE OF ENCLOSURE





RIGHT SIDE OF ENCLOSURE



OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	SEK	JRD
03/20/25	03/20/25	03/20/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE LAYOUT

DWG. NO.

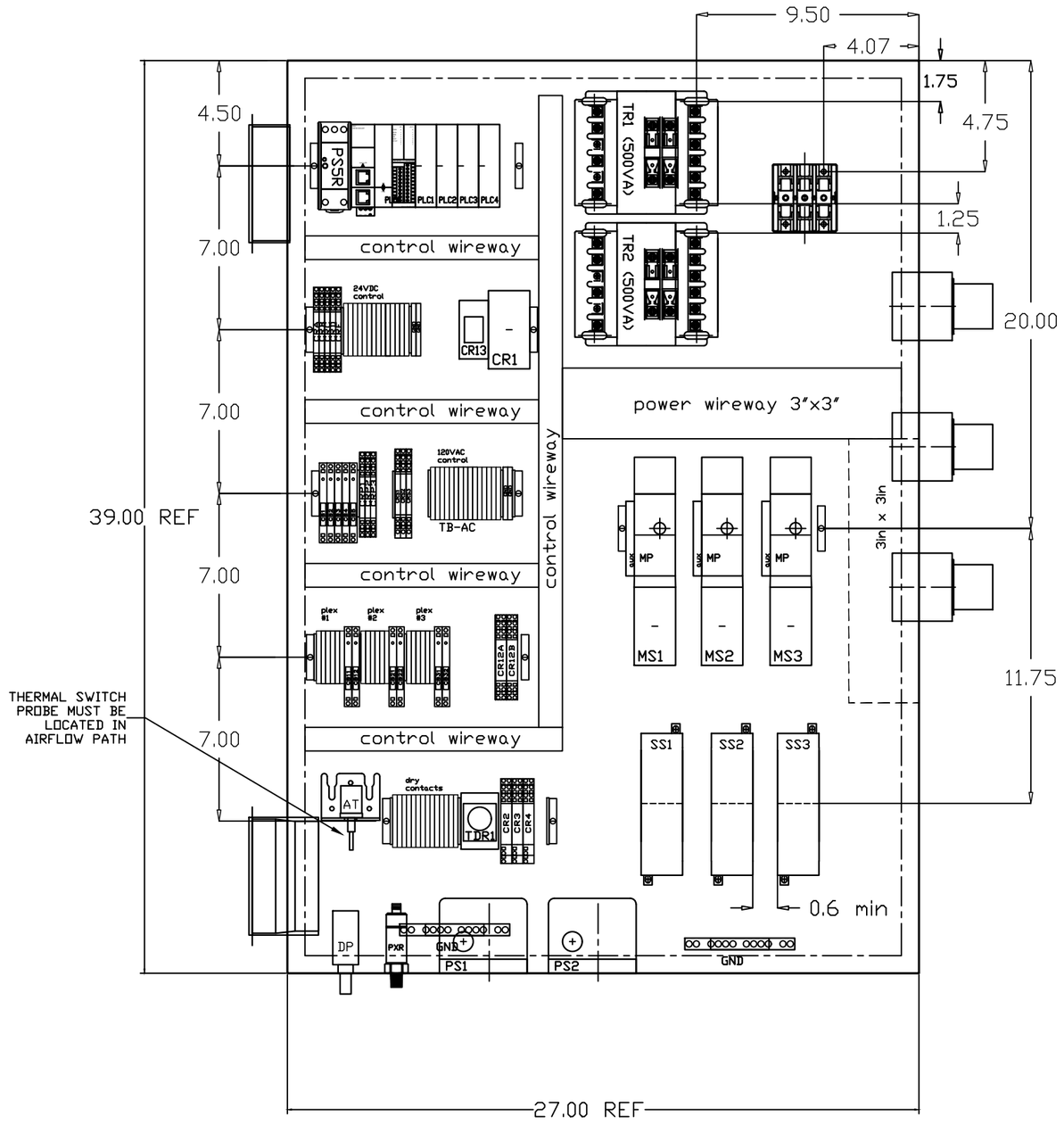
PXMI-AS316

SHEET LA-1

SIZE B

PXMI-AS316

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	03/20/25	PXEC0667	SEK	JRD



OPTIONAL:

POWEREX

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BTS	JRD	JRD
03/20/25	03/20/25	03/20/25

PANEL TYPE

TRI MEDICAL COMP

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

DWG. TYPE LAYOUT

DWG. NO.

PXMI-AS316

SHEET	SIZE
LA-2	B

PXMI-AS316

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)	72AJ	21.1	65.3	110	90	100
	A2AJ	26.5	81.5	150	110	125
230V (3Ø)	73AJ	17.9	55.7	100	70	90
	A3AJ	24	74	125	100	125
460V (3Ø)	74AJ	8.97	28.91	50	40	45
	A4AJ	12	38	70	50	60
380V (3Ø) 50HZ	78AJ	10.7	34.1	60	45	60
	A8AJ	14.5	45.5	80	60	70

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/19/14	PXEC0057	DMS	KMD

OPTIONAL:

208V/230V/460V/380V

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. △ -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 FUSE TYPE		208 VOLT	230 VOLT	460 380 VOLT	575 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.

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
DMS	KMD	DMS
11/19/14	11/19/14	11/19/14

PANEL TYPE

7.5/10 SCROLL DATA
TRIPLEX PANEL DATA

DWG. TYPE MISC

DWG. NO.

DATA TABLE

SHEET D-1

SCROLL 7-10 TRIPLEX

SIZE B