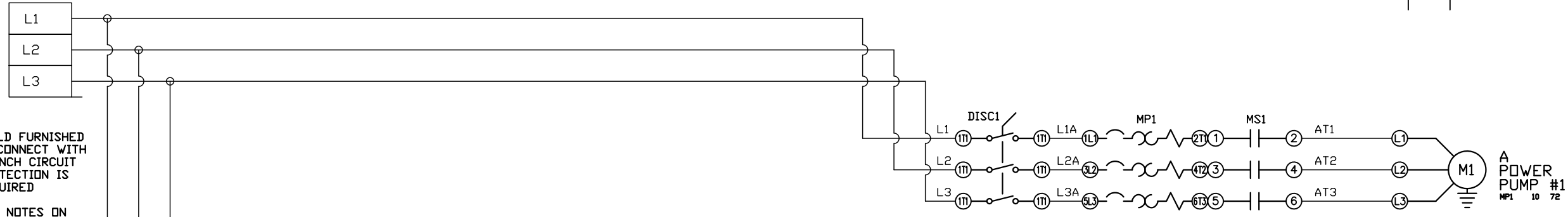


REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/05/24	PXEC0481	KMD	JRD



FIELD FURNISHED DISCONNECT WITH BRANCH CIRCUIT PROTECTION IS REQUIRED
SEE NOTES ON DATA PAGE D-1

A
POWER PUMP #1
MP1 10 72

OPTIONAL:



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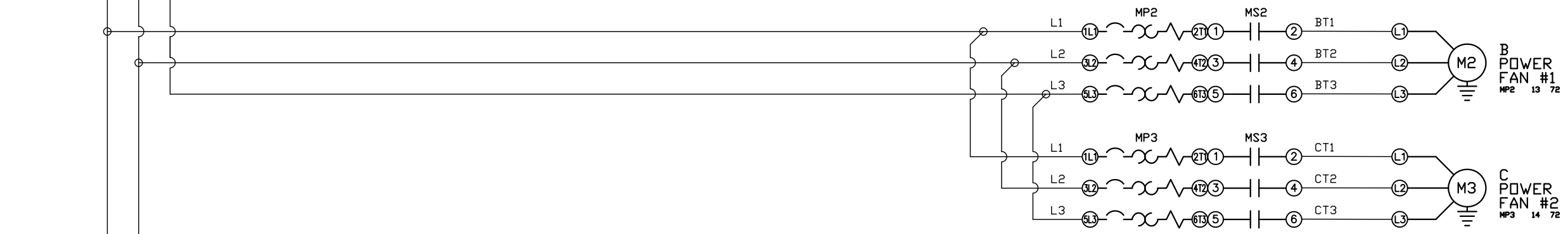
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	JRD	KMD
01/05/24	01/05/24	01/05/24

PANEL TYPE
SIMPLEX VAC ENCLOSURE SUB HMI, NFPA

DWG. TYPE WIRING

DWG. NO.
PBMI-VNES169

SHEET	SIZE
W-1	B

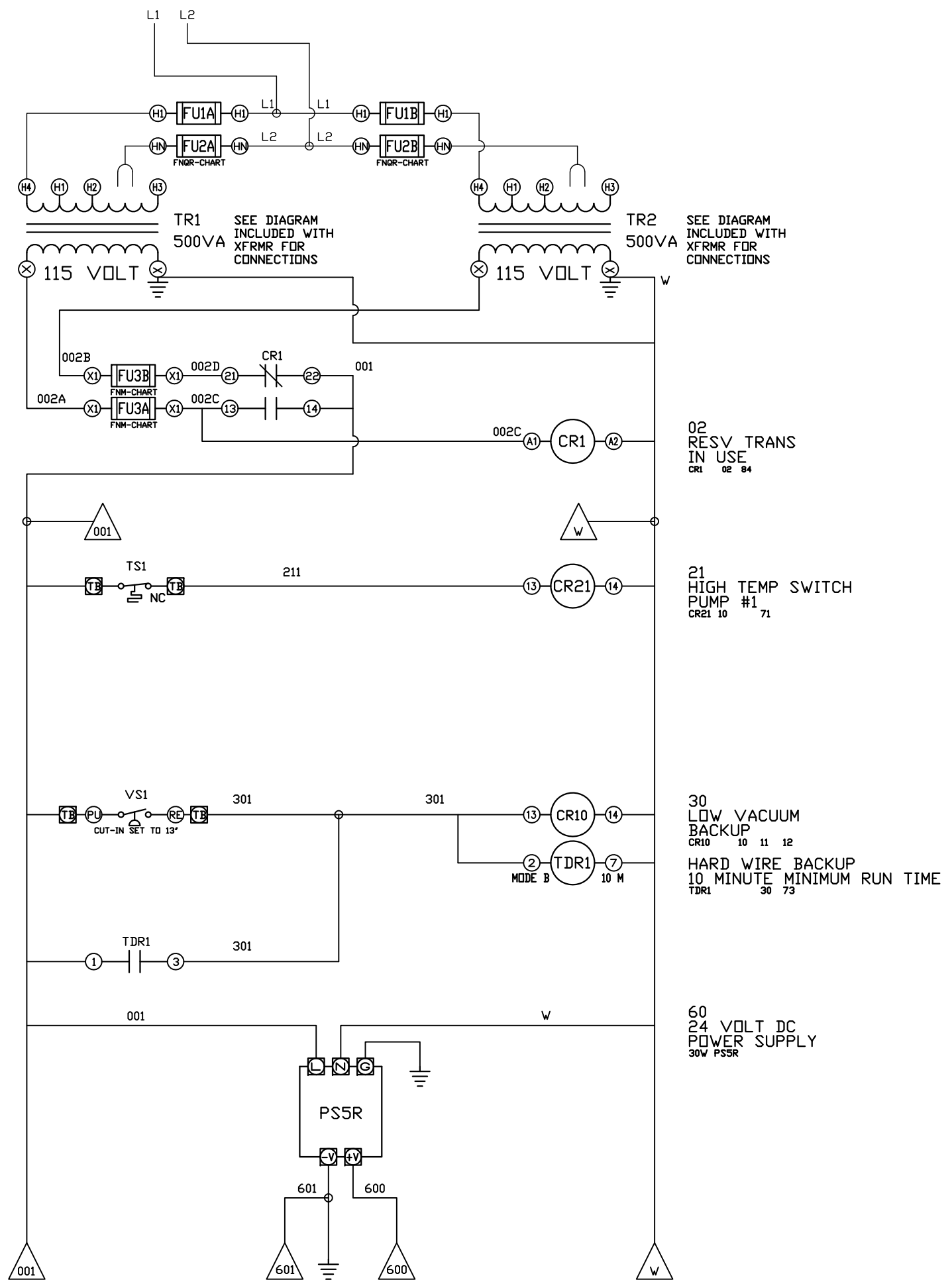


B
POWER FAN #1
MP2 13 72

C
POWER FAN #2
MP3 14 72

L1 L2

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/05/24	PXEC0481	KMD	JRD



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	JRD	KMD
01/05/24	01/05/24	01/05/24

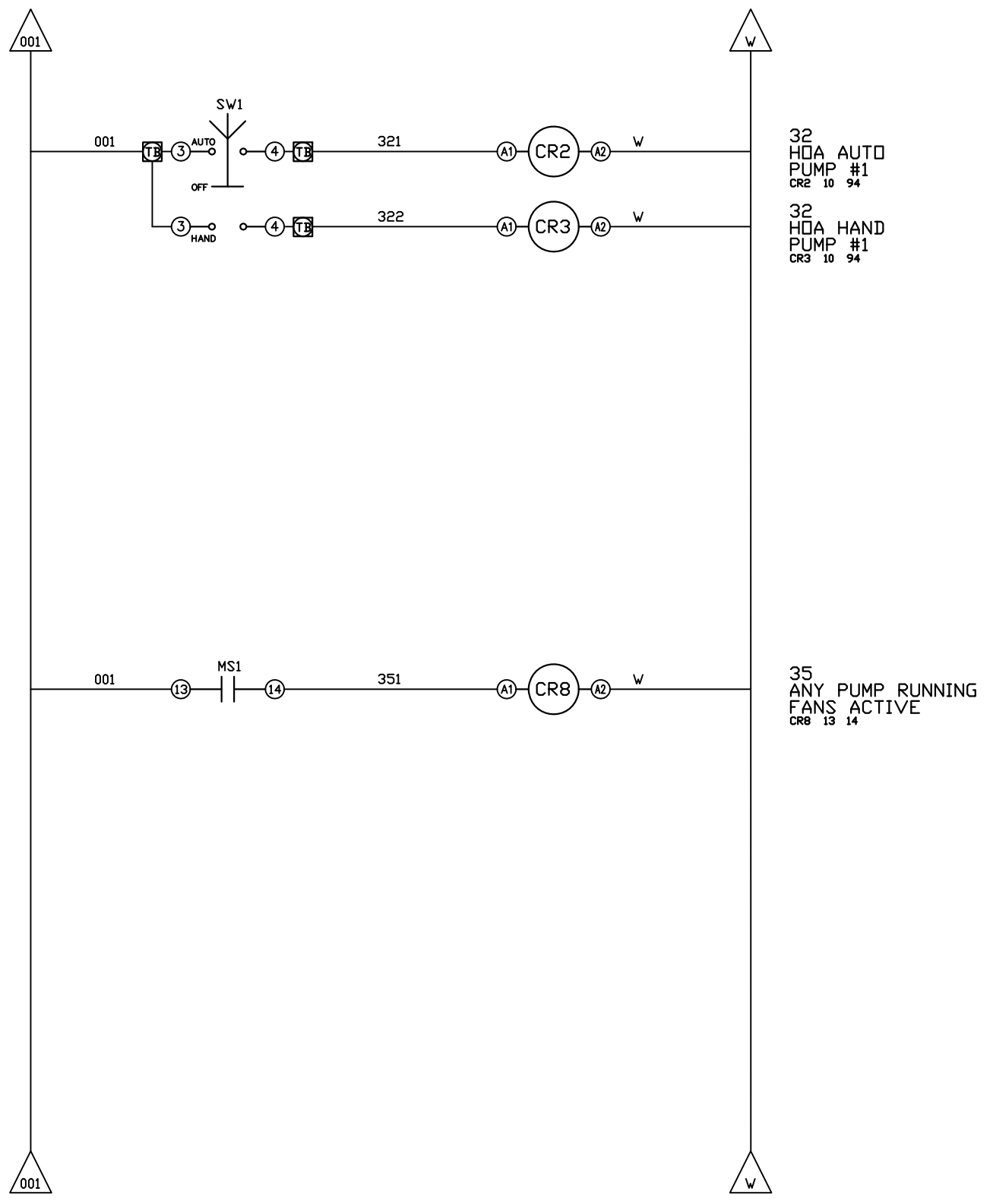
PANEL TYPE
SIMPLEX VAC ENCLOSURE SUB HMI, NFPA

DWG. TYPE WIRING

DWG. NO.
PBMI-VNES169

SHEET	SIZE
W-2	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/05/24	PXEC0481	KMD	JRD



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	JRD	KMD
01/05/24	01/05/24	01/05/24

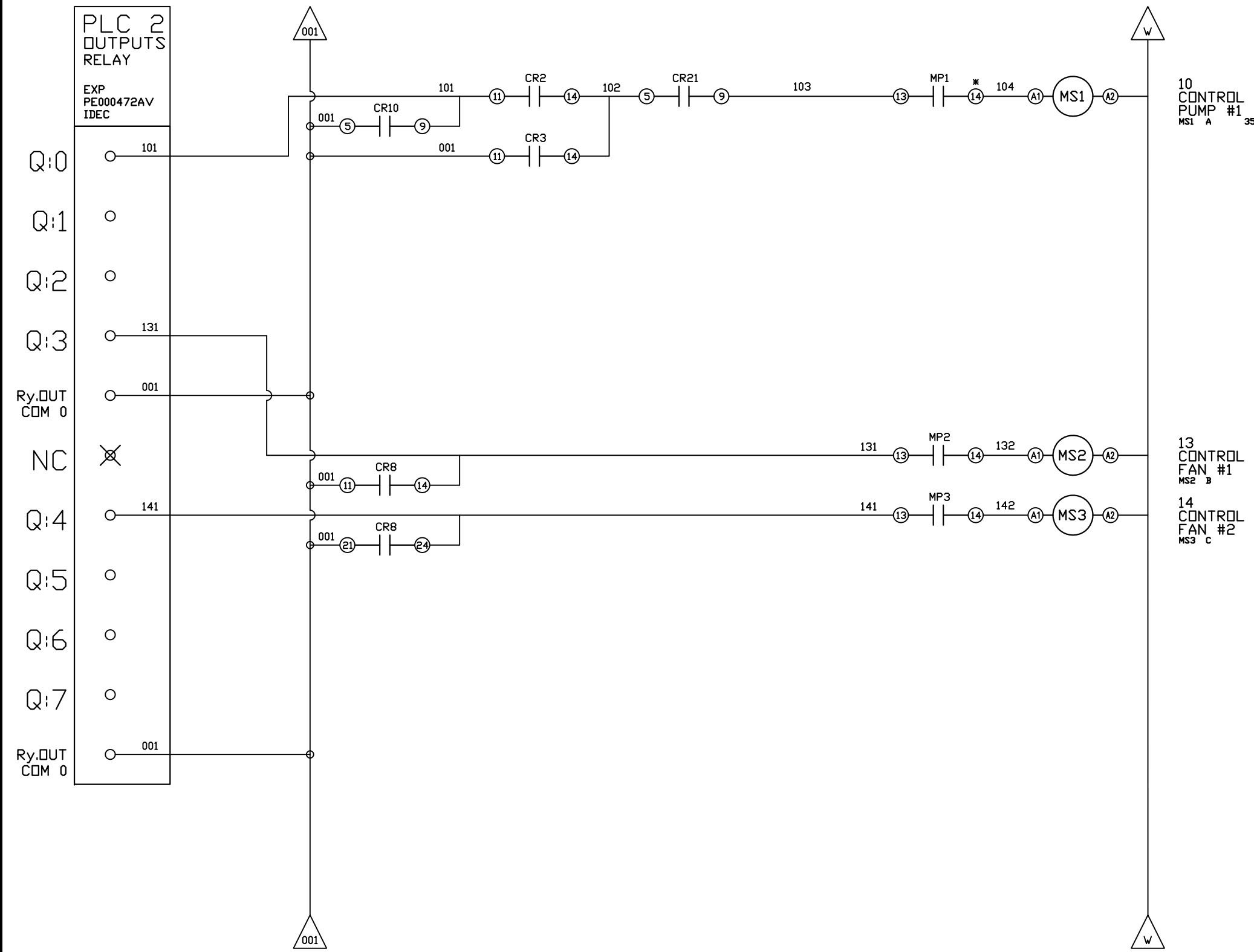
PANEL TYPE
 SIMPLEX VAC ENCLOSURE SUB
 HMI, NFPA

DWG. TYPE WIRING

DWG. NO.
 PBMI-VNES169

SHEET	SIZE
W-3	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/05/24	PXEC0481	KMD	JRD



10
CONTROL
PUMP #1
MS1 A 35

13
CONTROL
FAN #1
MS2 B

14
CONTROL
FAN #2
MS3 C

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	JRD	KMD
01/05/24	01/05/24	01/05/24

PANEL TYPE
SIMPLEX VAC ENCLOSURE SUB
HMI, NFPA

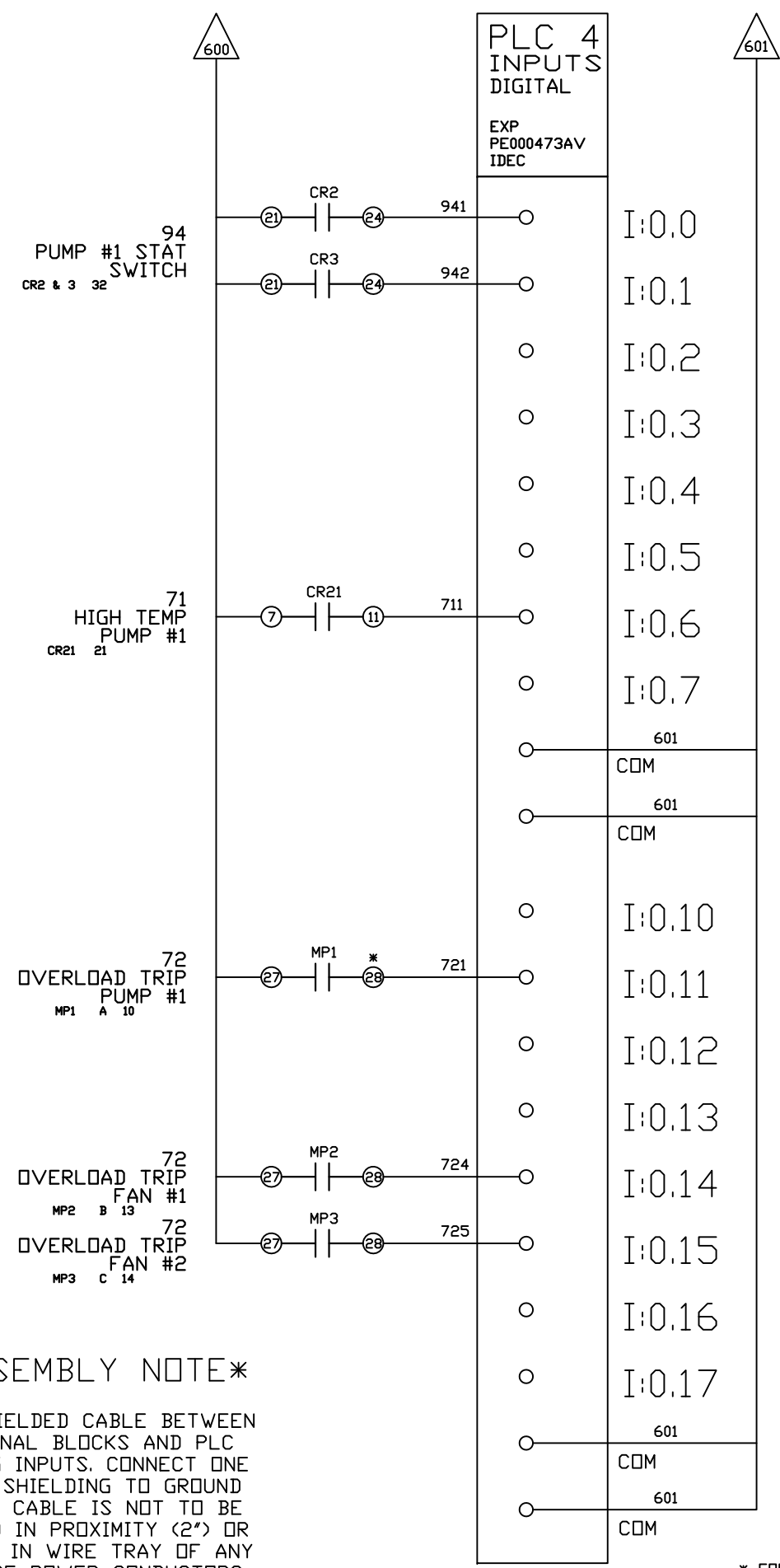
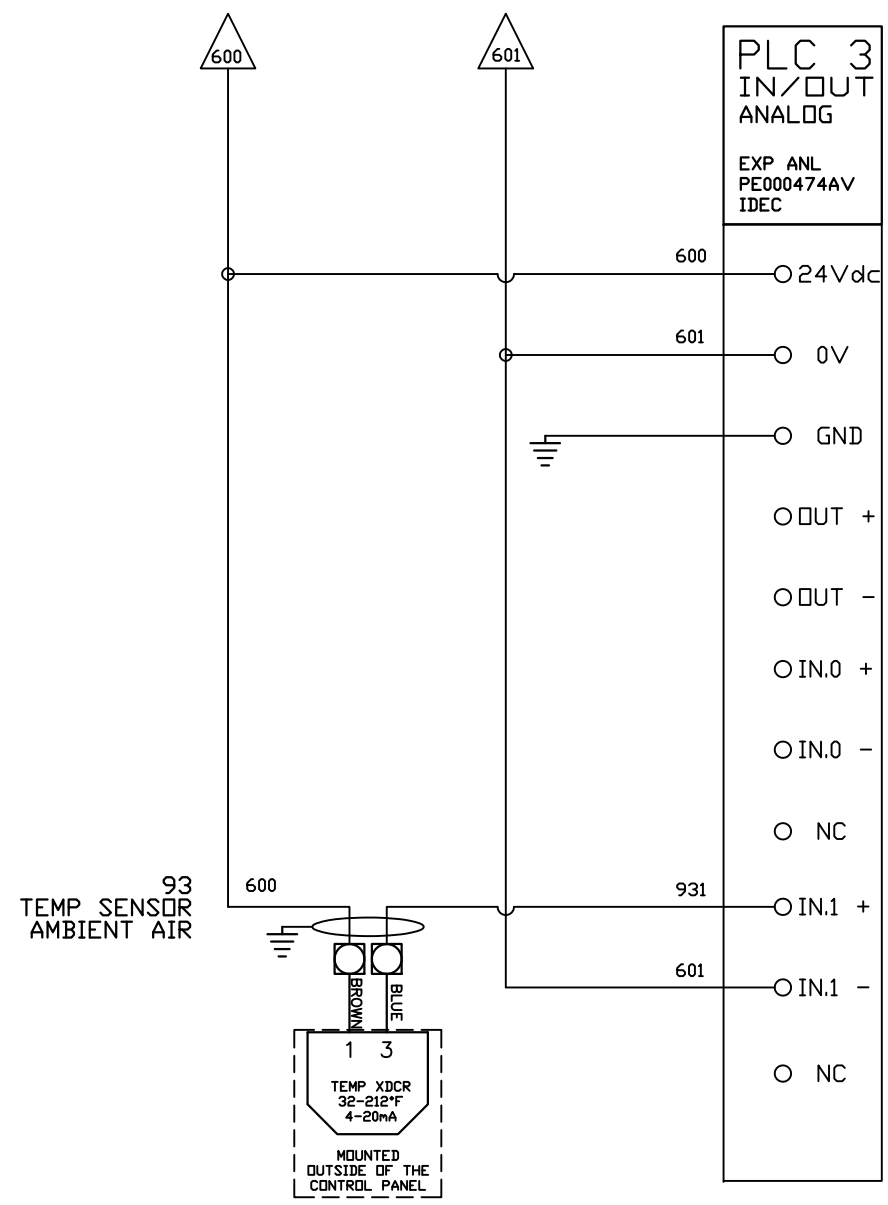
DWG. TYPE WIRING

DWG. NO.
PBMI-VNES169

SHEET	SIZE
W-4	B

* FOR GV4 MOTOR PROTECTORS USE PINS #1 AND #4 ON AUX CONTACT IN 'OF1' SLOT

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/05/24	PXEC0481	KMD	JRD



ASSEMBLY NOTE

USE SHIELDED CABLE BETWEEN
TERMINAL BLOCKS AND PLC
ANALOG INPUTS. CONNECT ONE
END'S SHIELDING TO GROUND
BLOCK. CABLE IS NOT TO BE
ROUTED IN PROXIMITY (2") OR
ROUTED IN WIRE TRAY OF ANY
3-PHASE POWER CONDUCTORS.

* FOR GV4 MOTOR PROTECTORS USE PINS
#1 AND #4 ON AUX CONTACT IN 'SD9' SLOT

OPTIONAL:



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use or examination.

DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	JRD	KMD
01/05/24	01/05/24	01/05/24

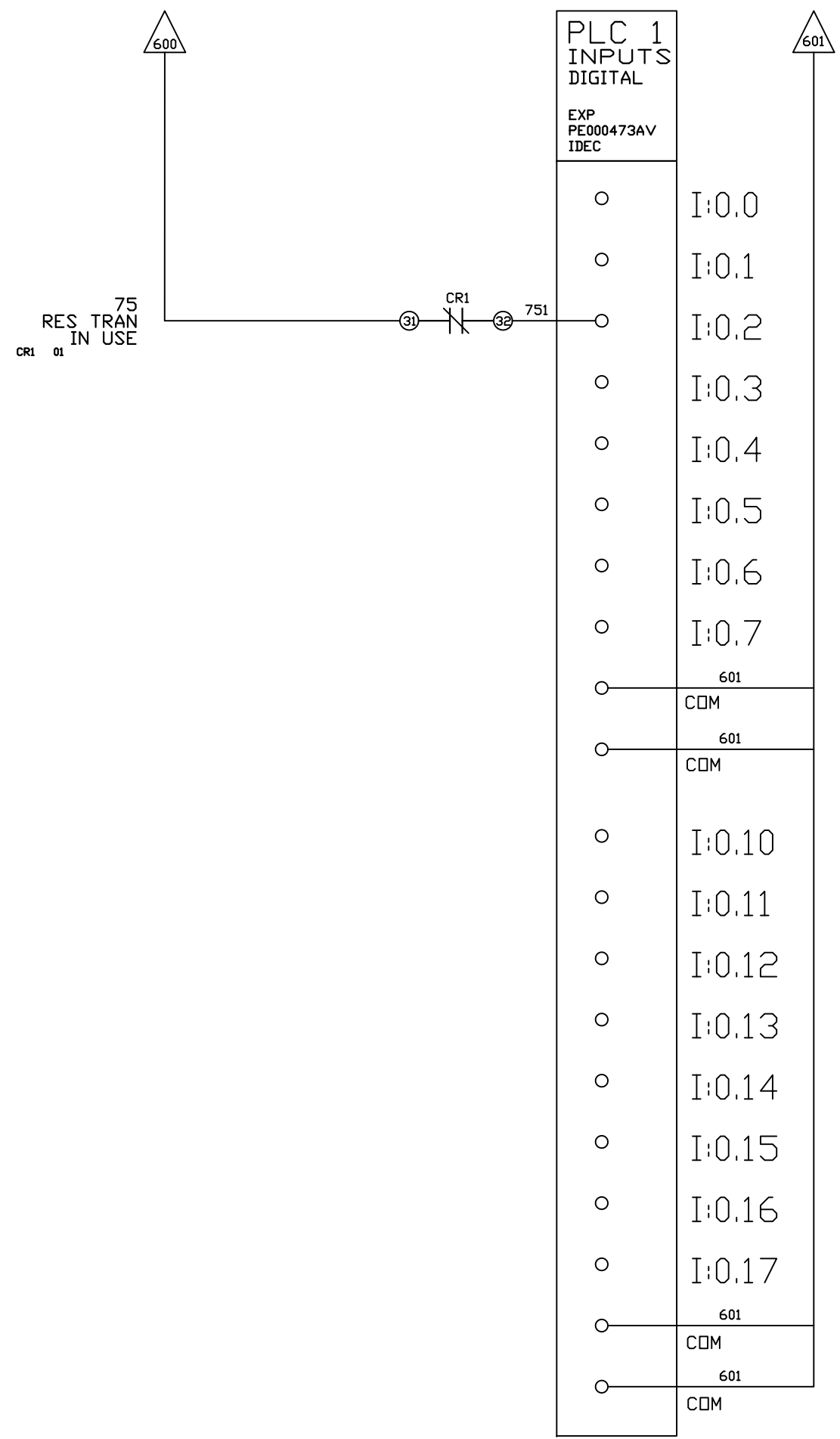
PANEL TYPE
SIMPLEX VAC ENCLOSURE SUB
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.
PBMI-VNES169

SHEET	SIZE
W-5	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/05/24	PXECO481	KMD	JRD



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	JRD	KMD
01/05/24	01/05/24	01/05/24

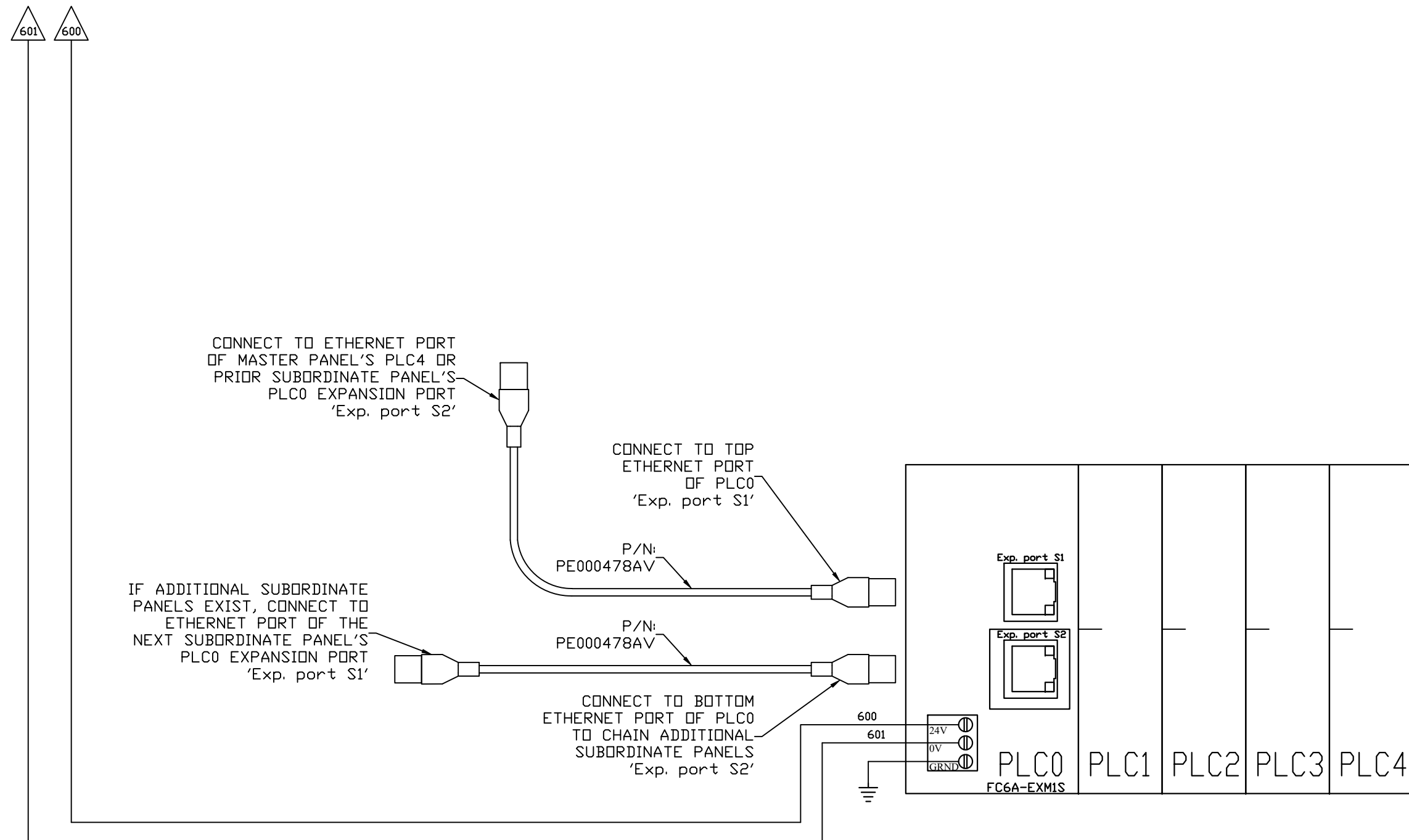
PANEL TYPE
SIMPLEX VAC ENCLOSURE SUB
HMI, NFPA

DWG. TYPE WIRING

DWG. NO.
PBMI-VNES169

SHEET	SIZE
W-6	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/05/24	PXEC0481	KMD	JRD



OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	JRD	KMD
01/05/24	01/05/24	01/05/24

PANEL TYPE
SIMPLEX VAC ENCLOSURE SUB HMI, NFPA

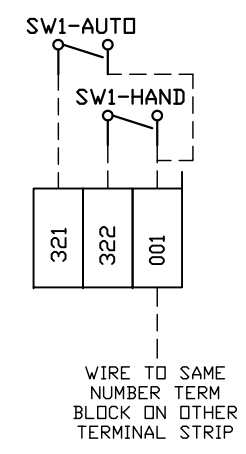
DWG. TYPE WIRING

DWG. NO.
PBMI-VNES169

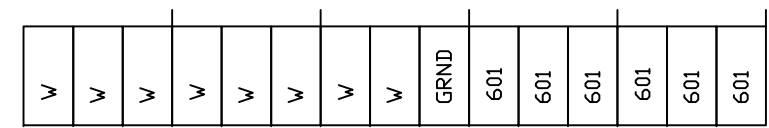
SHEET	SIZE
W-7	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/05/24	PXEC0481	KMD	JRD

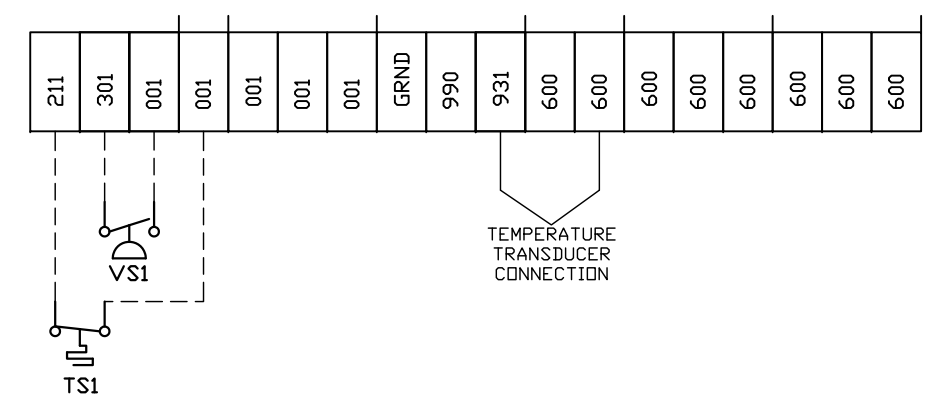
UPPER TERMINAL BLOCKS



MIDDLE TERMINAL BLOCKS



LOWER TERMINAL BLOCKS



- 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:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	JRD	KMD
01/05/24	01/05/24	01/05/24

PANEL TYPE
SIMPLEX VAC ENCLOSURE SUB HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PBMI-VNES169

SHEET	SIZE
W-8	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	01/05/24	PXEC0481	KMD	JRD

TABLE 1

TABLE 1 – LUBRICATED

PANEL DATA 3Ø – 50/60 Hz 500VA CONTROL CIRCUIT								
LOAD SPECIFICATIONS						(B) BRANCH CIRCUIT PROTECTION – PROVIDED BY INSTALLER		
PANEL PART NUMBER	MOTOR SIZE EACH	POWER (V/PH)	PUMP MOTOR LOAD EACH (FLA)	FAN MOTOR LOAD EACH (FLA)	PANEL LOAD TOTAL (FLA)	NONTIME DELAY FUSE	TIME-DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
PBMIVNES16942CB	4	208V/3Ø	10.4	0.6	14.1	35A	25A	30A
PBMIVNES16952CB	5	208V/3Ø	13.0	0.6	16.7	45A	30A	40A
PBMIVNES16962CB	6.4	208V/3Ø	16.4	0.6	20.1	60A	35A	45A
PBMIVNES16972CB	7.5	208V/3Ø	21.4	0.6	25.1	70A	45A	60A
PBMIVNES169A2CB	10	208V/3Ø	27.2	0.6	30.9	90A	60A	80A
PBMIVNES169F2CB	15	208V/3Ø	40.5	0.6	44.2	150A	80A	110A
PBMIVNES16943CB	4	230V/3Ø	9.2	0.54	12.8	35A	20A	30A
PBMIVNES16953CB	5	230V/3Ø	11.4	0.54	15.0	40A	25A	35A
PBMIVNES16963CB	6.4	230V/3Ø	15.2	0.54	18.8	50A	35A	45A
PBMIVNES16973CB	7.5	230V/3Ø	17.2	0.54	20.8	60A	35A	50A
PBMIVNES169A3CB	10	230V/3Ø	23.6	0.54	27.2	80A	45A	70A
PBMIVNES169F3CB	15	230V/3Ø	35.0	0.54	38.6	110A	70A	100A
PBMIVNES16944CB	4	460V/3Ø	4.6	0.33	7.3	20A	15A	15A
PBMIVNES16954CB	5	460V/3Ø	5.7	0.33	8.4	20A	15A	20A
PBMIVNES16964CB	6.4	460V/3Ø	7.6	0.33	10.3	30A	20A	25A
PBMIVNES16974CB	7.5	460V/3Ø	8.6	0.33	11.3	30A	20A	25A
PBMIVNES169A4CB	10	460V/3Ø	11.8	0.33	14.5	40A	25A	35A
PBMIVNES169F4CB	15	460V/3Ø	17.5	0.33	20.2	60A	35A	50A

NOTE- ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE

PANEL DATA 3Ø – 50/60 Hz 500VA CONTROL CIRCUIT								
LOAD SPECIFICATIONS						(B) BRANCH CIRCUIT PROTECTION – PROVIDED BY INSTALLER		
PANEL PART NUMBER	MOTOR SIZE EACH	POWER (V/PH)	PUMP MOTOR LOAD EACH (FLA)	FAN MOTOR LOAD EACH (FLA)	PANEL LOAD TOTAL (FLA)	NONTIME DELAY FUSE	TIME-DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
PBMIVNES16942AB	5	208V/3Ø	15.0	0.6	18.7	50A	30A	45A
PBMIVNES16952AB	5	208V/3Ø	14.8	0.6	18.5	50A	30A	45A
PBMIVNES16972AB	7.5	208V/3Ø	26.2	0.6	29.9	90A	50A	70A
PBMIVNES16943AB	5	230V/3Ø	13.2	0.54	16.8	45A	30A	40A
PBMIVNES16953AB	5	230V/3Ø	12.9	0.54	16.5	45A	30A	40A
PBMIVNES16973AB	7.5	230V/3Ø	20.9	0.54	24.5	70A	45A	60A
PBMIVNES16944AB	5	460V/3Ø	6.6	0.33	9.3	25A	15A	20A
PBMIVNES16954AB	5	460V/3Ø	6.45	0.33	9.1	25A	15A	20A
PBMIVNES16974AB	7.5	460V/3Ø	10.5	0.33	13.2	35A	25A	30A

NOTE- ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE

NOTES:

- RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
208-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
- PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
- INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE WITH SHORT CIRCUIT PROTECTION FOR THIS ELECTRICAL ASSEMBLY. SEE MOTOR DATA TABLE ON THIS PAGE FOR REQUIREMENTS.
- ALL WIRES MUST BE LABELED ON BOTH ENDS
- TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
- △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.


FIELD WIRING NOTES ON PAGE W-6

CONTROL TRANSFORMERS - 500VA					
FUSE TYPE		208 VOLT	230 VOLT	460/380 VOLT	575 VOLT
FU1,2A FU1,2B	FNQR	6A	5A	5A	4A
FU3A,B	FNM	7A	7A	7A	7A

SEE XFMR 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	601,701,991	16-18AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16-18AWG	YELLOW

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
KMD	JRD	KMD
01/05/24	01/05/24	01/05/24

PANEL TYPE
SIMPLEX VAC ENCLOSURE SUB
HMI, NFPA

DWG. TYPE DATA

DWG. NO.
PBMI-VNES169

SHEET	SIZE
D-1	B

PBMI-VNES169