POLYURETHANE MACHINERY CORPORATION
SCHEMATIC, PH(X)-2 3Φ 220V

REV	DRAWING NO.	DESCRIPTION
A	203656-1	PH(X)-2 HEATER/TRANSFORMER/MOTOR CIRCUIT
A	203656-2	PH(X)-2 DC POWER & HEATER CONTROLLERS CIRCUIT
A	203656-3	PH(X)-2 PRESSURE BALANCE & SWITCHES CIRCUIT
A	203656-4	PH(X)-2 I/O CIRCUIT

SYMBOLS

CIRCUIT BREAKER		ICL		RELAY	L
CONNECTION PIN		LATCHING RELAY		RESETTABLE COUNTER	
CONTACTOR		LIGHT		SOLENOID	
CONTROLLER		MOTOR	M	SOLID STATE RELAY	
CT COIL		NON-RESETTABLE COUNTER		SWITCH NC	
DC POWER SUPPLY		OVERLOAD		SWITCH NO	
DIODE		OVERTEMP SWITCH		TERMINAL BLOCK	
DISCONNECT		PRESSURE SWITCH		THERMOCOUPLE	
E-STOP		PROXIMITY SENSOR		TRANSFORMER	0V 14V 28V 42V 56V 70V 84V 99V 112V
HEATER		PUMP	P		

REV	CHANGED BY	DESCRIPTION
A	PT	INITIAL RELEASE

TERMINAL	TORQUE
CONTACTORS	4 Nm
CIRCUIT BREAKERS	2.5 Nm
16MM TB	3.2-3.7 Nm
10.5MM TB SSR	1.5-1.8 Nm
5.2MM TB	0.5-0.6 Nm

F = FRONT SIDE OF TERMINAL BLOCK (FRONT OF MACHINE)

R = REAR SIDE OF TERMINAL BLOCK (BACK OF MACHINE)

INTERNAL CONSOLE WIRES ————

EXTERNAL CONSOLE WIRES — — —

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.100, ENGINEERING DRAWING PRACTICES, TECHNICAL DATA PACKAGES.

POLYURETHANE MACHINERY CORPORATION
ONE KOMO DRIVE
LAKEWOOD, NJ 08701
(732) 415-4400

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XX ± .01
X.XXX ± .005
X°±0.5°
DO NOT SCALE DRAWING

DRAWN	PT	3/21/2025
CHECKED		
APPROVED		

TITLE: SCHEMATIC, PH(X)-2 3Φ 220V

SIZE: D | DWG.NO.: 203656 | REV.: A

SCALE 1:1 | SHEET 0 OF 4

DWG. NO. 203656

HEATER OPTIONS	
HEATER	RATING
PH-21	7.5kW
PH-22	9.0kW
PH-23	10.5kW
PH-33	14.0kW

MOTOR OPTIONS		
MACHINE	MOTOR	RATING
PH-2	EL-05224	3HP 3PH 60Hz
PHX-2	EL-05223	5HP 3PH 60Hz

XFMR OPTIONS	
XFMR	RATING
EL-05228	70V 2kVA
EL-05225	90V 3kVA
EL-05226	120V 5kVA

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.100, ENGINEERING DRAWING PRACTICES, TECHNICAL DATA PACKAGES.

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TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XX ± .01
X.XXX ± .005
X° ± 0.5°
DO NOT SCALE DRAWING

DRAWN	PT	3/21/2025
CHECKED		
APPROVED		

TITLE: SCHEMATIC, PH(X)-2 3Φ 220V

SIZE: D | DWG.NO. 203656-1 | REV. A

SCALE 1:1 | SHEET 1 OF 4

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THIRD ANGLE PROJECTION

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X.XX ±.01
X.XXX ±.005
X°±0.5°
DO NOT SCALE DRAWING

DRAWN	PT	3/21/2025
CHECKED		
APPROVED		

TITLE: SCHEMATIC, PH(X)-2 3Φ 220V

SIZE	DWG.NO.	REV.
D	203656-2	A

SCALE 1:1 | SHEET 2 OF 4

DWG. NO. 203656-2

SWITCH ORIENTATION	
SW#-1	LEFT
SW#-2	MIDDLE
SW#-3	RIGHT

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THIRD ANGLE PROJECTION

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TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XX ± .01
X.XXX ± .005
X° ±0.5°
DO NOT SCALE DRAWING

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DRAWN	PT	3/21/2025
CHECKED		
APPROVED		

TITLE
SCHEMATIC, PH(X)-2 3Φ 220V

SIZE D | DWG.NO. 203656-3 | REV. A

SCALE 1:1 | SHEET 3 OF 4

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.100, ENGINEERING DRAWING PRACTICES, TECHNICAL DATA PACKAGES.

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TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XX ± .01
X.XXX ± .005
X° ± 0.5°
DO NOT SCALE DRAWING

DRAWN	PT	3/21/2025
CHECKED		
APPROVED		

TITLE

SCHEMATIC, PH(X)-2 3Φ 220V

SIZE	DWG.NO.	REV.
D	203656-4	A

SCALE 1:1 | SHEET 4 OF 4

POLYURETHANE MACHINERY CORPORATION
SCHEMATIC, PH(X)-2 1Φ 220V

REV	DRAWING NO.	DESCRIPTION
A	203655-1	PH(X)-2 HEATER/TRANSFORMER/MOTOR CIRCUIT
A	203655-2	PH(X)-2 DC POWER & HEATER CONTROLLERS CIRCUIT
A	203655-3	PH(X)-2 PRESSURE BALANCE & SWITCHES CIRCUIT
A	203655-4	PH(X)-2 I/O CIRCUIT

SYMBOLS

CIRCUIT BREAKER		ICL		RELAY	
CONNECTION PIN		LATCHING RELAY		RESETTABLE COUNTER	
CONTACTOR		LIGHT		SOLENOID	
CONTROLLER		MOTOR		SOLID STATE RELAY	
CT COIL		NON-RESETTABLE COUNTER		SWITCH NC	
DC POWER SUPPLY		OVERLOAD		SWITCH NO	
DIODE		OVERTEMP SWITCH		TERMINAL BLOCK	
DISCONNECT		PRESSURE SWITCH		THERMOCOUPLE	
E-STOP		PROXIMITY SENSOR		TRANSFORMER	0V 14V 28V 42V 56V 70V 84V 99V 112V
HEATER		PUMP			

REV	CHANGED BY	DESCRIPTION
A	PT	INITIAL RELEASE

TERMINAL	TORQUE
CONTACTORS	4 Nm
CIRCUIT BREAKERS	2.5 Nm
16MM TB	3.2-3.7 Nm
10.5MM TB SSR	1.5-1.8 Nm
5.2MM TB	0.5-0.6 Nm

F = FRONT SIDE OF TERMINAL BLOCK (FRONT OF MACHINE)

R = REAR SIDE OF TERMINAL BLOCK (BACK OF MACHINE)

INTERNAL CONSOLE WIRES ————

EXTERNAL CONSOLE WIRES — — —

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.100, ENGINEERING DRAWING PRACTICES, TECHNICAL DATA PACKAGES.

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ONE KOMO DRIVE
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TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XX ± .01
X.XXX ± .005
X°±0.5°
DO NOT SCALE DRAWING

DRAWN	PT	3/21/2024
CHECKED		
APPROVED		

TITLE: SCHEMATIC, PH(X)-2 1Φ 220V

SIZE: D | DWG.NO. 203655 | REV. A

SCALE 1:1 | SHEET 0 OF 4

DWG. NO. 203655

HEATER OPTIONS

HEATER	RATING
PH-21	7.5kW
PH-22	9.0kW
PH-23	10.5kW
PH-33	14.0kW

MOTOR OPTIONS

MACHINE	MOTOR	RATING
PH-2	EL-05221	3HP 3PH 60Hz
PHX-2	EL-05222	5HP 3PH 60Hz

XFMR OPTIONS

XFMR	RATING
EL-05228	70V 2kVA
EL-05225	90V 3kVA
EL-05226	120V 5kVA

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DRAWN	PT	3/21/2024
CHECKED		
APPROVED		

TITLE: SCHEMATIC, PH(X)-2 1Φ 220V

SIZE: D | DWG.NO. 203655-1 | REV. A

SCALE 1:1 | SHEET 1 OF 4

THIRD ANGLE PROJECTION

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TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XX ± .01
X.XXX ± .005
X° ±0.5°
DO NOT SCALE DRAWING

DRAWN	PT	3/21/2024
CHECKED		
APPROVED		

TITLE
SCHEMATIC, PH(X)-2 1Φ 220V

SIZE	DWG.NO.	REV.
D	203655-2	A

SCALE 1:1 SHEET 2 OF 4

SWITCH ORIENTATION	
SW#-1	LEFT
SW#-2	MIDDLE
SW#-3	RIGHT

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.100, ENGINEERING DRAWING PRACTICES, TECHNICAL DATA PACKAGES.

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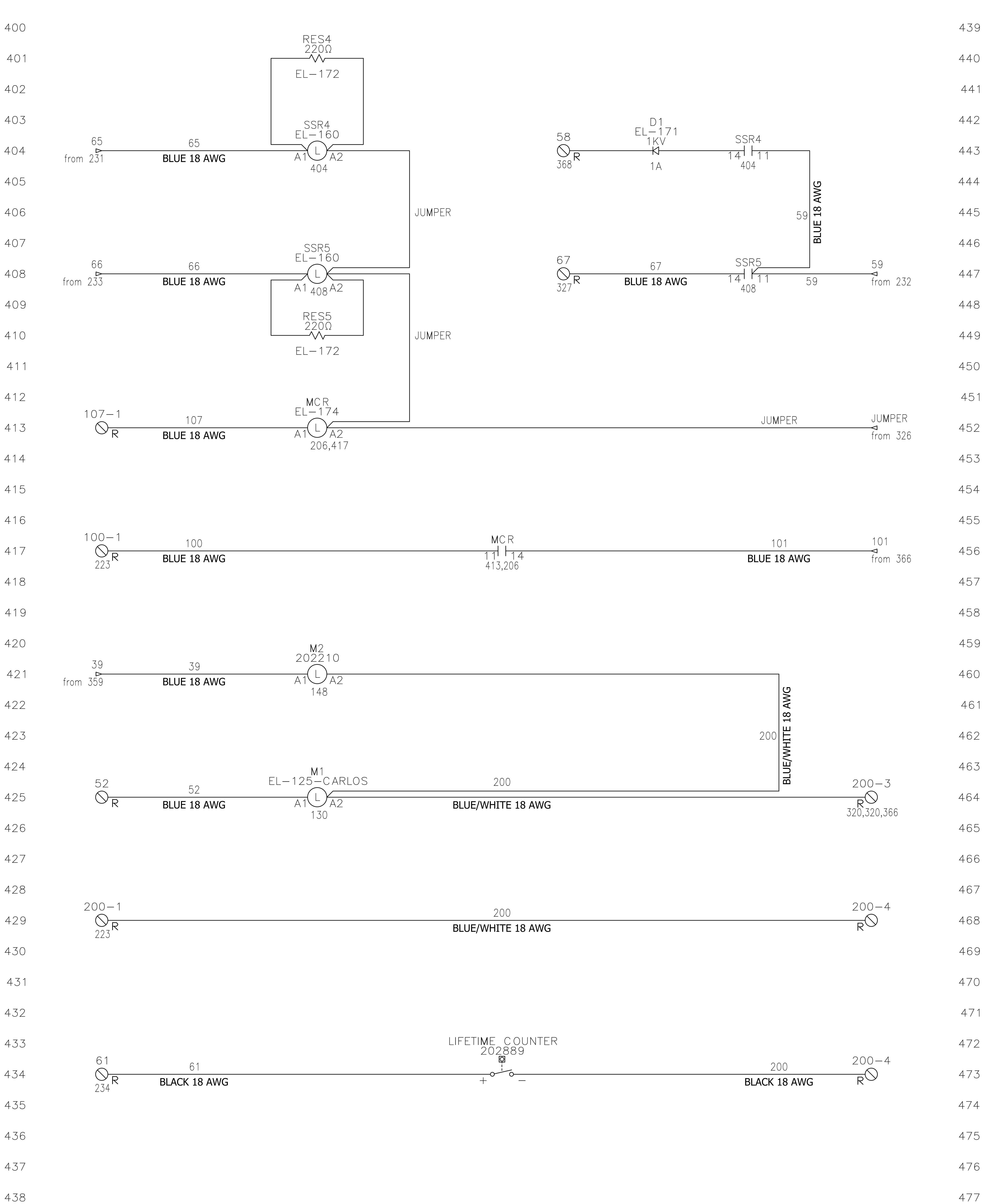
TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XX ± .01
X.XXX ± .005
X° ± 0.5°
DO NOT SCALE DRAWING

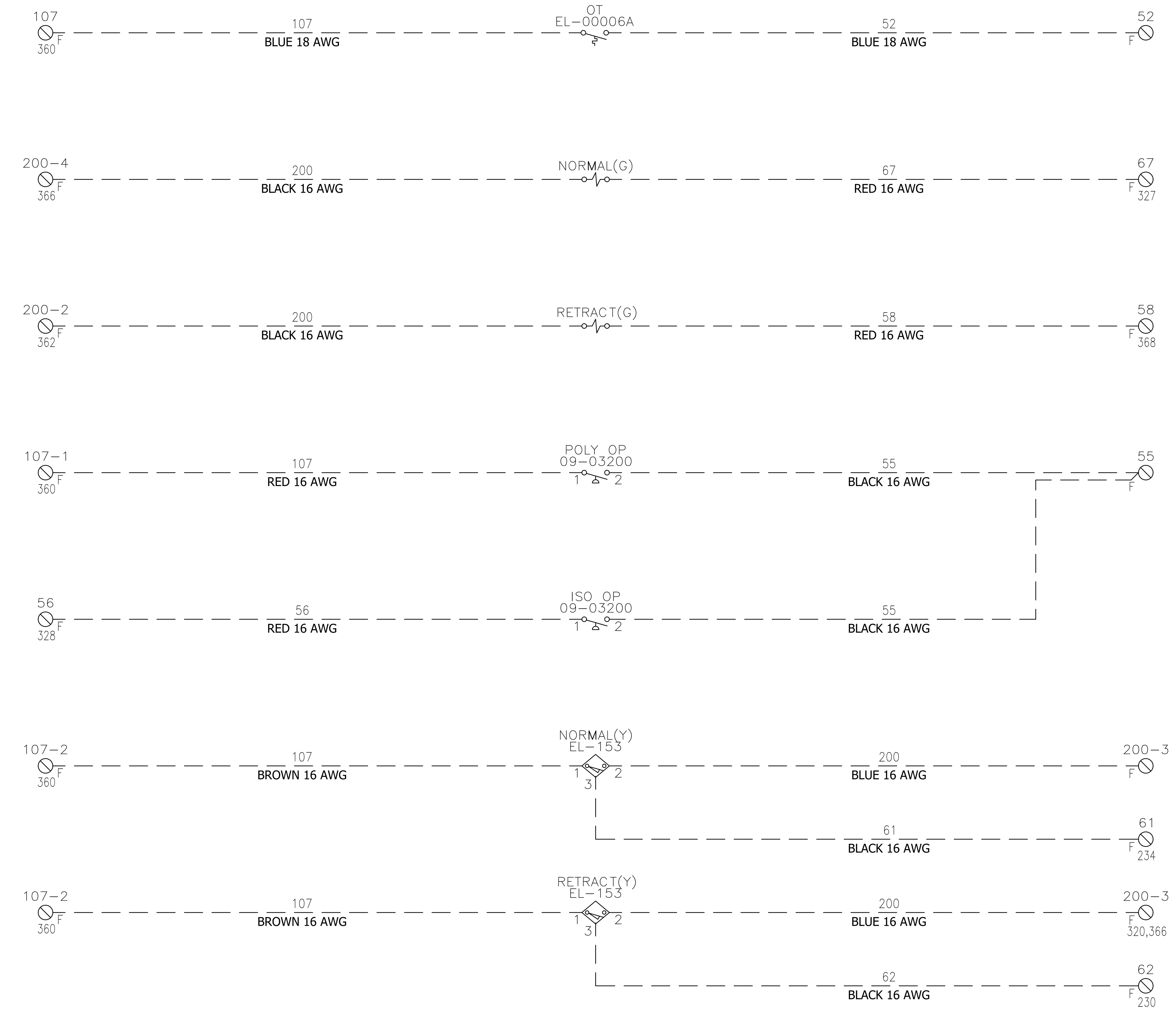
DRAWN	PT	3/21/2024
CHECKED		
APPROVED		

TITLE
SCHEMATIC, PH(X)-2 1Φ 220V

SIZE D | DWG.NO. 203655-3 | REV. A

SCALE 1:1 | SHEET 3 OF 4





THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.100, ENGINEERING DRAWING PRACTICES, TECHNICAL DATA PACKAGES.

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TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XX ± .01
X.XXX ± .005
X° ± 0.5°
DO NOT SCALE DRAWING

DRAWN	PT	3/21/2024
CHECKED		
APPROVED		

TITLE: SCHEMATIC, PH(X)-2 1Φ 220V

SIZE: D | DWG.NO.: 203655-4 | REV.: A

SCALE 1:1 | SHEET 4 OF 4

DWG. NO. 203655-4

POLYURETHANE MACHINERY CORPORATION
SCHEMATIC, PH(X)-2 3Φ 380V

REV	DRAWING NO.	DESCRIPTION
A	203657-1	PH(X)-2 HEATER/TRANSFORMER/MOTOR CIRCUIT
A	203657-2	PH(X)-2 DC POWER & HEATER CONTROLLERS CIRCUIT
A	203657-3	PH(X)-2 PRESSURE BALANCE & SWITCHES CIRCUIT
A	203657-4	PH(X)-2 I/O CIRCUIT

SYMBOLS

CIRCUIT BREAKER		ICL		RELAY	
CONNECTION PIN		LATCHING RELAY		RESETTABLE COUNTER	
CONTACTOR		LIGHT		SOLENOID	
CONTROLLER		MOTOR		SOLID STATE RELAY	
CT COIL		NON-RESETTABLE COUNTER		SWITCH NC	
DC POWER SUPPLY		OVERLOAD		SWITCH NO	
DIODE		OVERTEMP SWITCH		TERMINAL BLOCK	
DISCONNECT		PRESSURE SWITCH		THERMOCOUPLE	
E-STOP		PROXIMITY SENSOR		TRANSFORMER	0V 14V 28V 42V 56V 70V 84V 99V 112V
HEATER		PUMP			

REV	CHANGED BY	DESCRIPTION
A	PT	INITIAL RELEASE

TERMINAL	TORQUE
CONTACTORS	4 Nm
CIRCUIT BREAKERS	2.5 Nm
16MM TB	3.2-3.7 Nm
10.5MM TB SSR	1.5-1.8 Nm
5.2MM TB	0.5-0.6 Nm

F = FRONT SIDE OF TERMINAL BLOCK (FRONT OF MACHINE)

R = REAR SIDE OF TERMINAL BLOCK (BACK OF MACHINE)

INTERNAL CONSOLE WIRES ————

EXTERNAL CONSOLE WIRES — — —

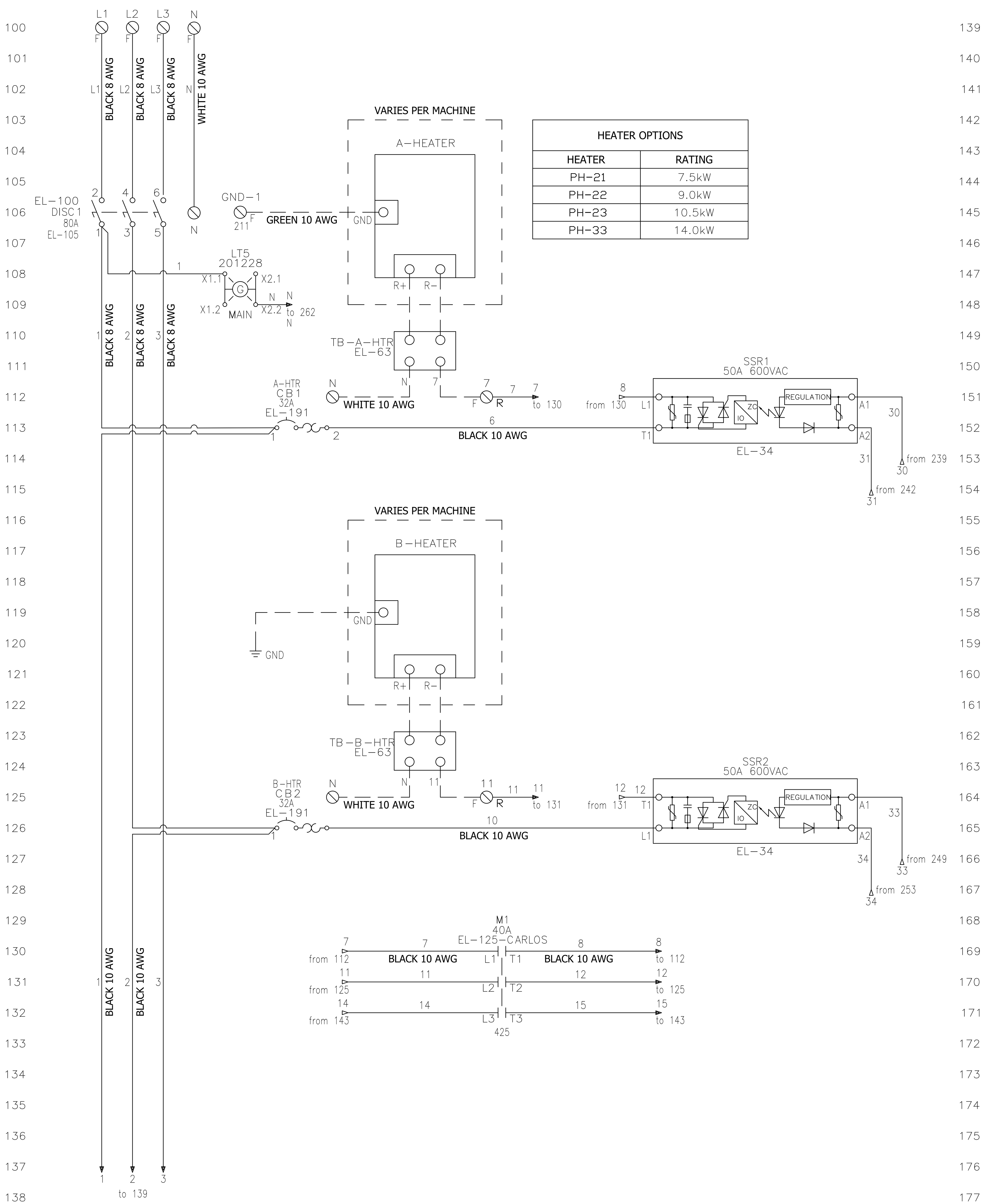
DWG. NO. 203657

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.100, ENGINEERING DRAWING PRACTICES, TECHNICAL DATA PACKAGES.

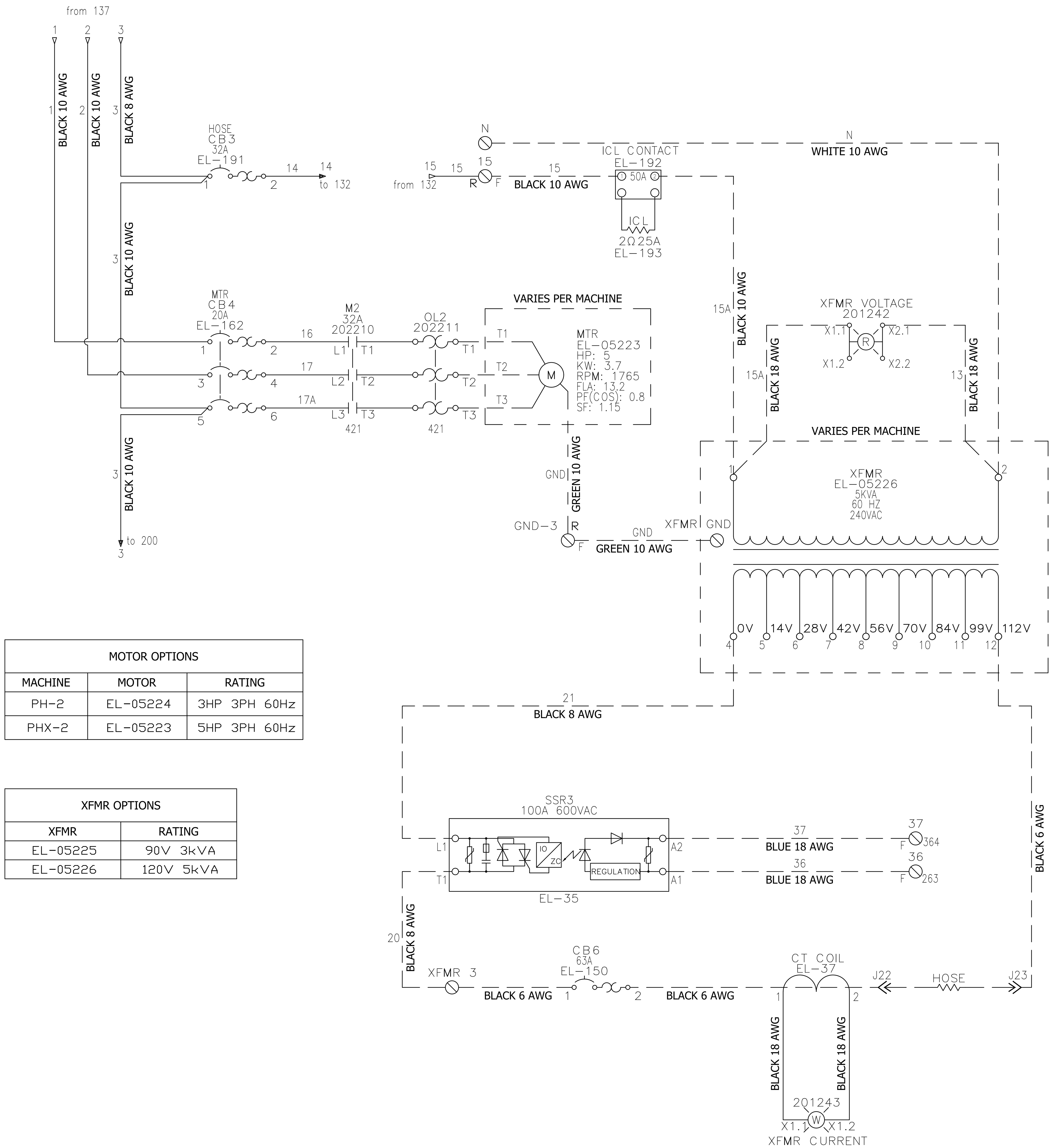
POLYURETHANE MACHINERY CORPORATION
ONE KOMO DRIVE
LAKEWOOD, NJ 08701
(732) 415-4400

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN PT	3/21/2025	TITLE SCHEMATIC, PH(X)-2 3Φ 220V
TOLERANCES UNLESS OTHERWISE SPECIFIED X.XX ± .01 X.XXX ± .005 X°±0.5°	CHECKED		SIZE D · DWG.NO. 203657 · REV. A
DO NOT SCALE DRAWING	APPROVED		SCALE 1:1 · SHEET 0 OF 4



HEATER OPTIONS

HEATER	RATING
PH-21	7.5kW
PH-22	9.0kW
PH-23	10.5kW
PH-33	14.0kW



MOTOR OPTIONS

MACHINE	MOTOR	RATING
PH-2	EL-05224	3HP 3PH 60Hz
PHX-2	EL-05223	5HP 3PH 60Hz

XFMR OPTIONS

XFMR	RATING
EL-05225	90V 3kVA
EL-05226	120V 5kVA

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.100, ENGINEERING DRAWING PRACTICES, TECHNICAL DATA PACKAGES.

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TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XX ± .01
X.XXX ± .005
X° ± 0.5°
DO NOT SCALE DRAWING

DRAWN PT 3/21/2025
CHECKED
APPROVED

TITLE: SCHEMATIC, PH(X)-2 3Φ 220V

SIZE: D | DWG.NO. 203657-1 | REV. A

SCALE 1:1 | SHEET 1 OF 4

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THIRD ANGLE PROJECTION

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TOLERANCES UNLESS OTHERWISE SPECIFIED
X.XX ± .01
X.XXX ± .005
X° ±0.5°
DO NOT SCALE DRAWING

DRAWN	PT	3/21/2025
CHECKED		
APPROVED		

TITLE: SCHEMATIC, PH(X)-2 3Φ 220V

SIZE: D | DWG.NO.: 203657-2 | REV.: A

SCALE: 1:1 | SHEET 2 OF 4

SWITCH ORIENTATION	
SW#-1	LEFT
SW#-2	MIDDLE
SW#-3	RIGHT

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.100, ENGINEERING DRAWING PRACTICES, TECHNICAL DATA PACKAGES.

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X° ± 0.5°
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DRAWN	PT	3/21/2025
CHECKED		
APPROVED		

TITLE: SCHEMATIC, PH(X)-2 3Φ 220V

SIZE	DWG.NO.	REV.
D	203657-3	A

SCALE 1:1 SHEET 3 OF 4

THIRD ANGLE PROJECTION

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X.XXX ± .005
X° ± 0.5°
DO NOT SCALE DRAWING

DRAWN	PT	3/21/2025
CHECKED		
APPROVED		

TITLE: SCHEMATIC, PH(X)-2 3Φ 220V

SIZE: D | DWG.NO. 203657-4 | REV. A

SCALE 1:1 | SHEET 4 OF 4

DWG. NO. 203657-4