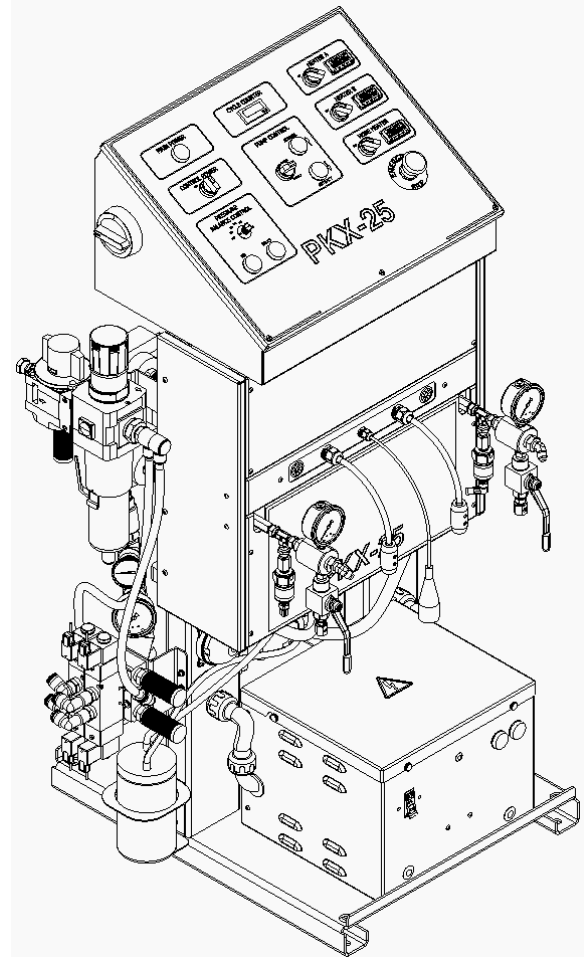
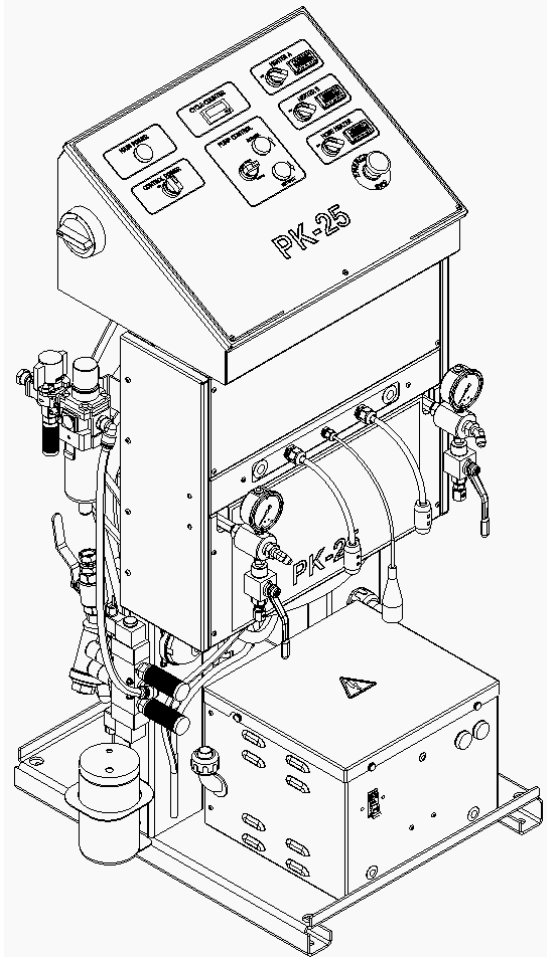




POLYURETHANE
MACHINERY CORPORATION

PK(X)-25 Proportioner Electrical Drawings

Ref. # 203327
Revision 1.0
9/17/2024



FOR PROFESSIONAL USE ONLY
Not approved for use in European explosive atmosphere locations

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1 WARRANTY

Polyurethane Machinery Corporation (hereinafter “PMC”) provides this **LIMITED WARRANTY** (hereinafter “Warranty”) to the original purchaser (hereinafter “Customer”) covering this equipment and the original PMC manufactured accessories delivered with the equipment (hereinafter “Product”) against defects in material or workmanship of the Product (hereinafter “Defect” or “Defective”) for a period of one (1) year from the date of first purchase as shown on the original PMC invoice (hereinafter “Warranty Period”)

If during the Warranty Period under normal use, the Product is suspected by Customer to be Defective in material or workmanship, it is Customer’s responsibility to contact PMC and return the Product to PMC as directed by PMC, freight prepaid. If PMC determines that the Product is Defective and that such Defect is covered by this Warranty, PMC will credit Customer for the reasonable freight charges incurred by Customer in returning the Defective Product to PMC, and PMC (or its authorized agent) will, at PMC’s option, repair or replace the Product, subject to the following:


1. Original Invoice: The original invoice must be kept as proof of the date of first sale and the Product serial number. The Warranty does not cover any Product if the Original Invoice appears to have been modified or altered, or when the serial number on the Product appears to have been altered or defaced.
2. Product Maintenance: It is the Customer’s responsibility to maintain the Product properly. See your maintenance schedule and owner’s manual for details. The Warranty does not cover an improperly maintained Product.
3. Non-PMC Components and Accessories: Non-PMC manufactured components and accessories that are used in the operation of the Product are not covered by this Warranty. Such components and accessories shall be subject to the warranty offered to the Customer, if any, by the original manufacturer of such component or accessory.
4. Other Warranty Exclusions: The Warranty does not cover any Product that PMC determines has been damaged or fails to operate properly due to misuse, negligence, abuse, carelessness, neglect, or accident. By way of example only, this includes:
 - Normal wear and tear.
 - Improper or unauthorized installation, repair, alteration, adjustment, or modification of the product.
 - Use of heating devices, pumping equipment, dispensers, or other parts or accessories with the product that have not been approved or manufactured by PMC.
 - Failure to follow the operating instructions and recommendations provided by PMC.
 - Cosmetic damage.
 - Fire, flood, “acts of God”, or other contingencies beyond the control of PMC.

THE WARRANTY DESCRIBED HEREIN IS THE EXCLUSIVE REMEDY FOR THE CUSTOMER AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES ARE HEREBY DISCLAIMED. TO THE FULLEST EXTENT PERMITTED BY LAW, PMC SHALL NOT BE RESPONSIBLE, WHETHER BASED IN CONTRACT, TORT (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE), WARRANTY OR ANY OTHER LEGAL OR EQUITABLE GROUNDS, FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, LOST PROFITS, SPECIAL, PUNITIVE OR EXEMPLARY DAMAGES, WHETHER TO PERSON OR PROPERTY, ARISING FROM OR RELATING TO THE PRODUCT, EVEN IF PMC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES.

- Non-Warranty Service by PMC: If PMC determines that the suspected Defect of the Product is not covered by this Warranty, disposition of the Product will be made pursuant to the terms and conditions of PMC's written estimate on a time and materials basis.
- Continuing Warranty for Products Repaired or Replaced under Warranty: Following the repair or replacement of a Product covered by this Warranty, such Product will continue to be subject to the original Warranty for the remainder of original Warranty Period or for three (3) months from the repair or replacement date, whichever is longer.
- No Rights Implied: Nothing in the sale, lease or rental of any Product by PMC shall be construed to grant any right, interest, or license in or under any patent, trademark, copyright, trade secret or other proprietary right or material owned by anyone; nor does PMC encourage the infringement of same.
- Exclusive Warranty: This writing is the final, complete, and exclusive expression of the Warranty covering the Product. Any statements made by PMC, its employees or agents that differ from the terms of this Warranty shall have no effect. It is expressly understood that Customer's acceptance of this Warranty, by performance or otherwise, is upon and subject solely to the terms and conditions hereof, and any additional or different terms and conditions proposed or expressed by Customer or anyone, whether in writing or otherwise, are null and void unless specifically agreed to in writing by an Officer of PMC.

2 SAFETY AND HANDLING

This chapter contains important information on the safety, handling, and use of your Premier Series Proportioner.

	<p>Before installing the Premier Series Proportioner and startup, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information in order to know and understand the operation and the conditions of use of the Premier Series Proportioner. All of the information is aimed at improving user safety and avoiding possible breakdowns from the incorrect use of the Premier Series Proportioner.</p>
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WARNING! Symbol is presented in front of information to alert of a situation that might cause serious injuries if the instructions are not followed.

CAUTION! Symbol is presented in front of information that indicates how to avoid damage to the proportioner or how to avoid a situation that could cause issues.

NOTE! Symbol is presented in front of relevant information of a procedure being carried out.

Careful study of this manual will enable the operator to know the characteristics of the Premier Series Proportioner and the operating procedures. By following the instructions and recommendations contained herein, you will reduce the potential risk of accidents in the installation, use, and maintenance of the Premier Series Proportioner. You will provide a better opportunity for greater output, incident-free operation for a longer time, and the possibility of detecting and resolving problems quickly and simply.






Keep this Operations Manual for future consultation of useful information. If you lose this manual, ask for a new copy from your PMC Service Center or go online at our web site (www.polymacusa.com).

The Premier Series Proportioner has been designed and built for the application of polyurethane foam chemical systems, and some two-component epoxy systems

WARNING! The design and configuration of the Premier Series Proportioner does not allow its use in potentially explosive atmospheres, or the pressure and temperature limits described in the technical specifications of this manual to be exceeded.

Always use liquids and solvents that are compatible with the unit. If in doubt, consult your authorized PMC distributor.

When working with the Premier Series Proportioner, it is recommended that the operator wear suitable clothing and elements of personal protection, including, without limitation, gloves, protective goggles, safety footwear and face masks. Use breathing equipment when working with the Premier Series Proportioner in enclosed spaces or in areas with insufficient ventilation. The introduction and follow-up of safety measures must not be limited to those described in this manual. Before starting up the Premier Series Proportioner, a comprehensive analysis must be made of the risks derived from the products to be dispensed, the type of application, and the working environment.

	<p><i>To prevent possible injury caused by incorrect handling of the raw materials and solvents used in the process, carefully read the Safety Data Sheet (SDS) provided by your supplier. Deal with the waste caused according to current regulations.</i></p>
	<p><i>To avoid damage caused by the impact of pressurized fluids, do not open any connection, or perform maintenance work on components subject to pressure until the pressure has been completely eliminated.</i></p>
	<p><i>Use suitable protection when operating, maintaining or being present in the area where the equipment is functioning. This includes, but is not limited to, the use of protective goggles, gloves, shoes, and safety clothing and breathing equipment.</i></p>
	<p><i>The equipment includes components that reach high temperatures and can cause burns. Hot parts of the equipment must not be handled or touched until they have cooled completely.</i></p>
	<p><i>To prevent serious injury through crushing or amputation, do not work with the equipment without the safety guards installed on the moving parts. Make sure that all the safety guards are correctly reinstalled at the end of the repair or maintenance work of the equipment.</i></p>

3 PK-25 1Ø SCHEMATICS

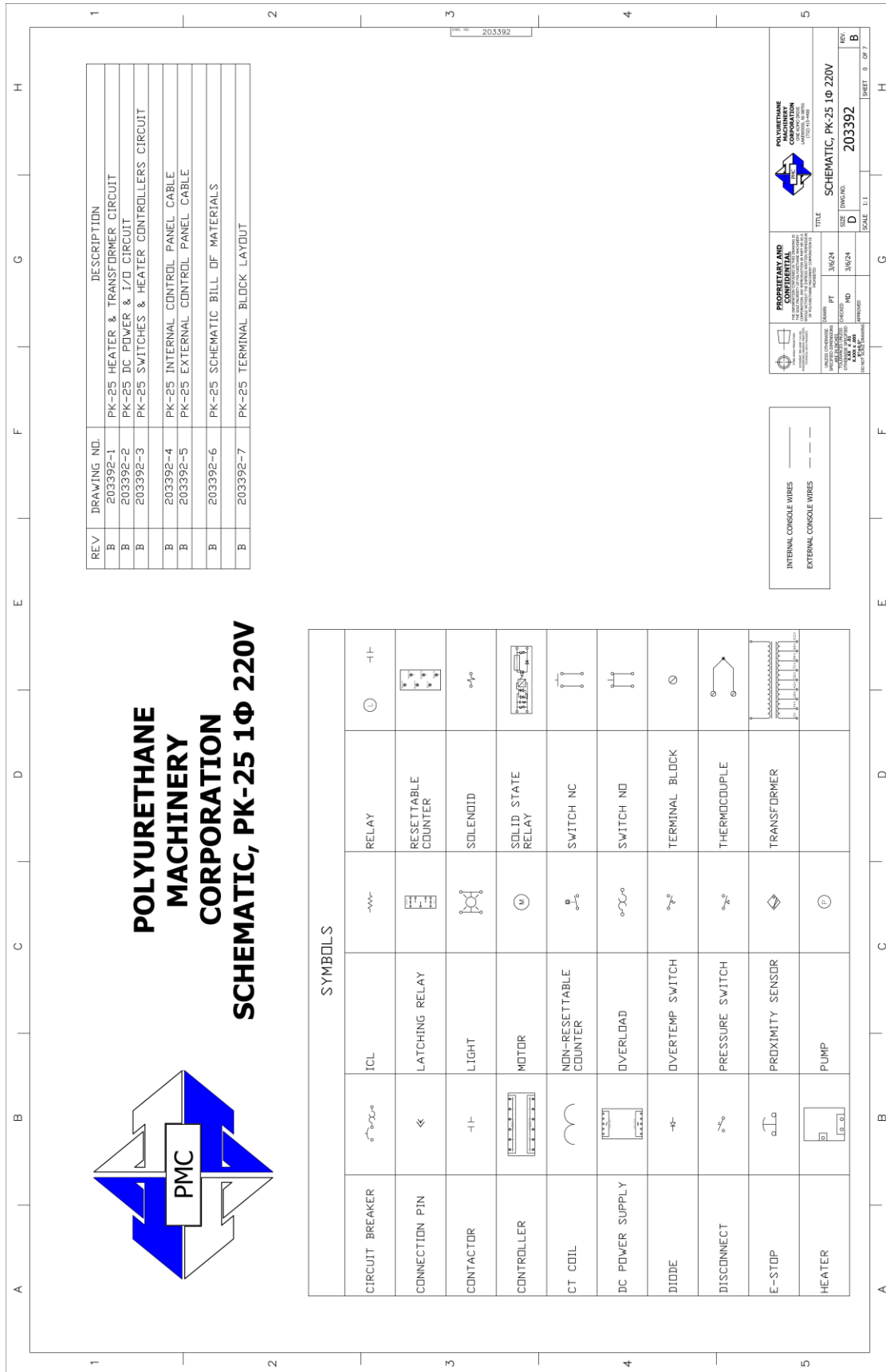


Figure 1: PK-25 1Ø SCHEMATIC PG0

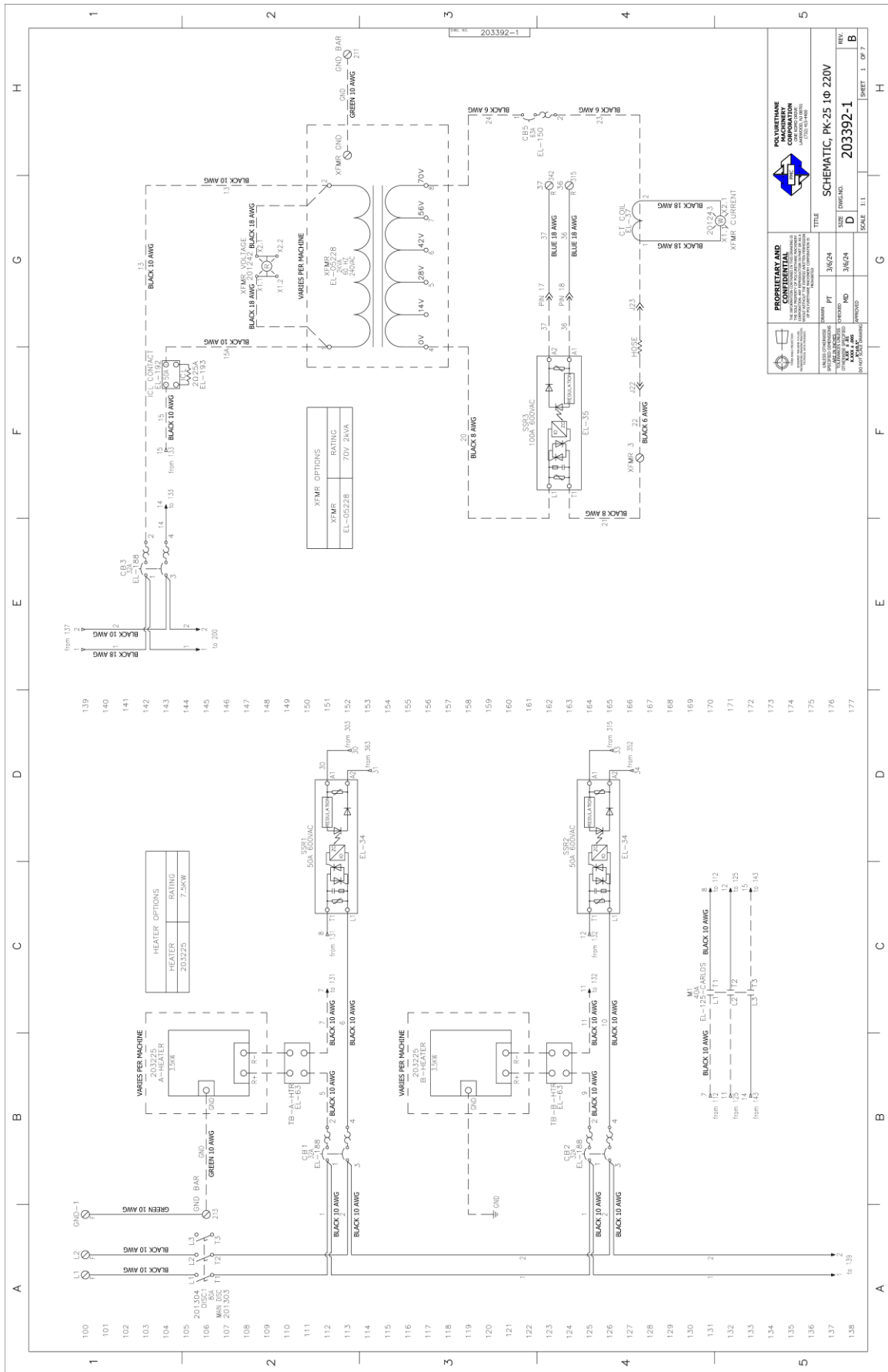


Figure 2: PK-25 1Ø SCHEMATIC PG1

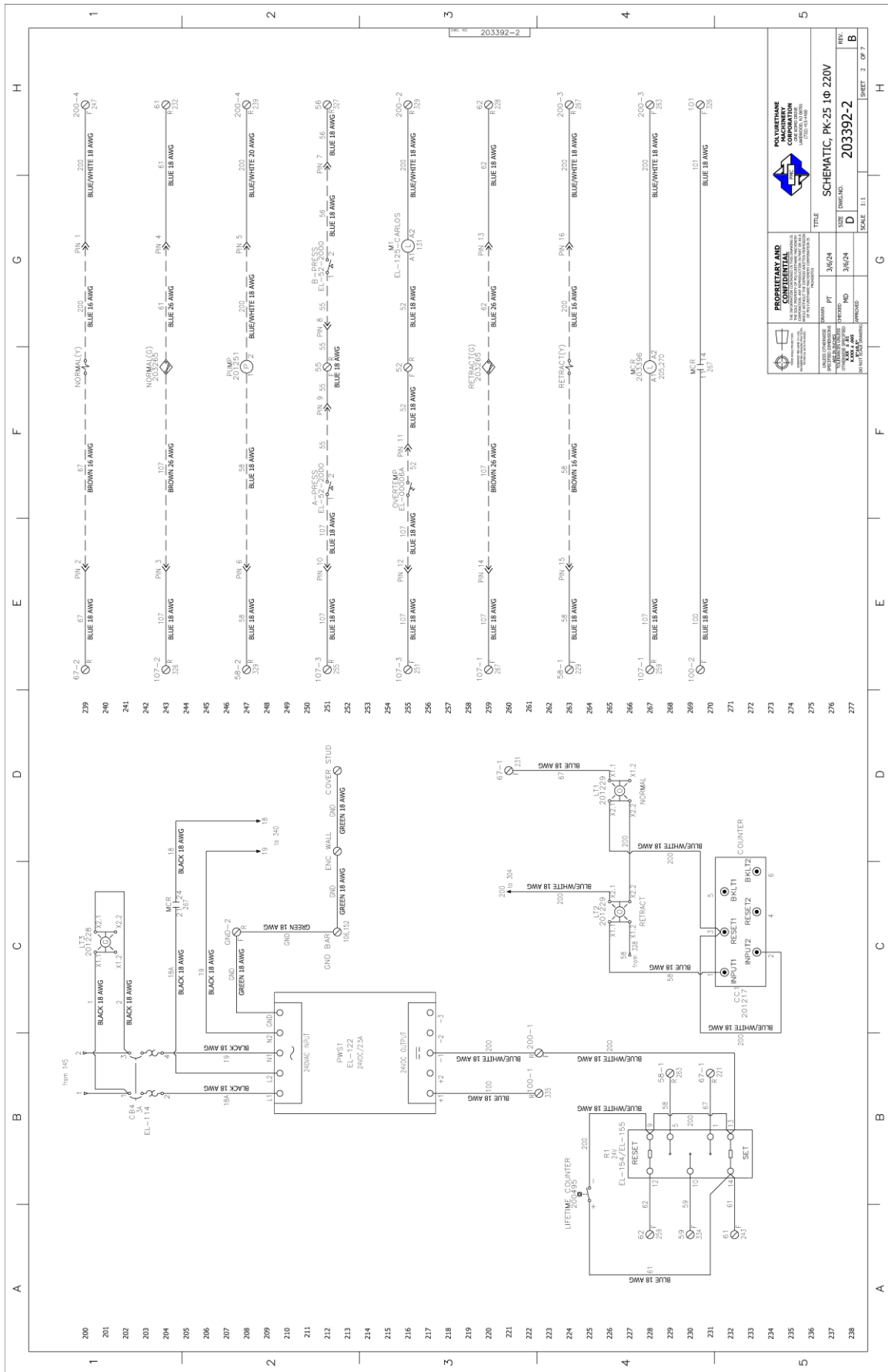


Figure 3: PK-25 1Ø SCHEMATIC PG2

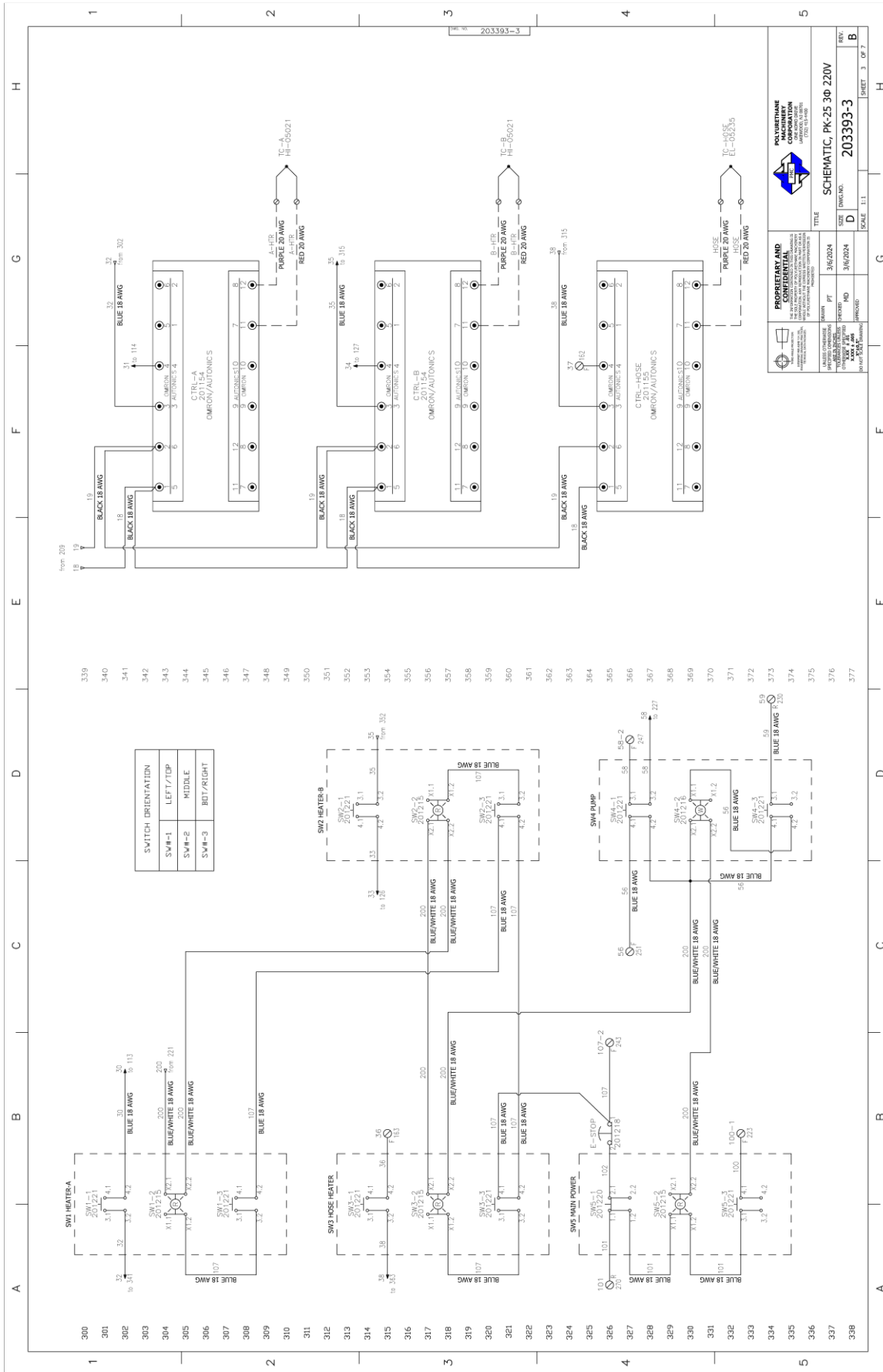


Figure 4: PK-25 1Ø SCHEMATIC PG3

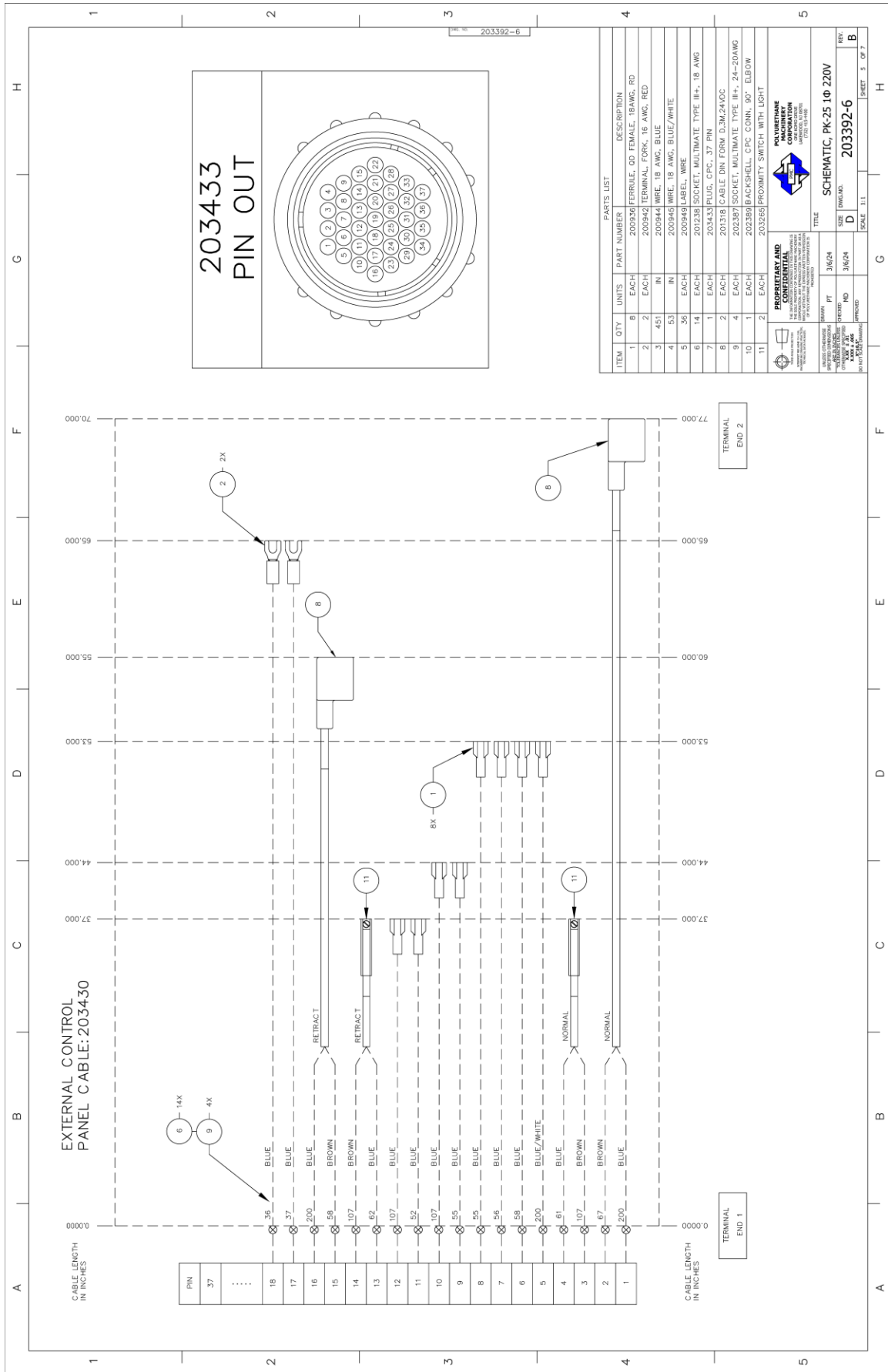


Figure 5: PK-25 1Ø SCHEMATIC PG4

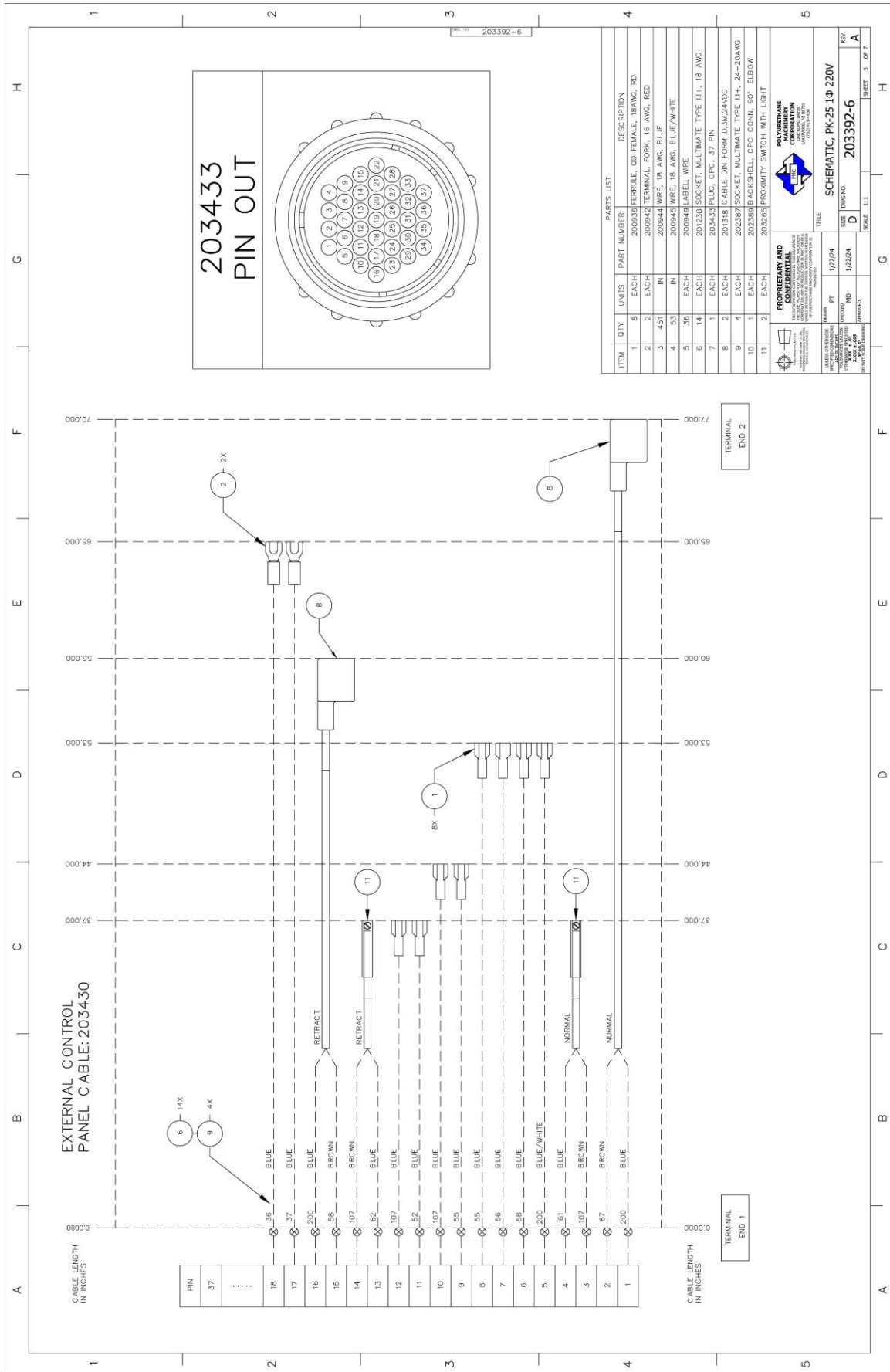


Figure 6: PK-25 1Ø SCHEMATIC PG5

COMPONENT LIST

Location: MAIN			Location: XFMR CIRCUIT			Location: DC POWERED CIRCUIT			Location: I/O CIRCUIT			Location: A-HEATER CIRCUIT			Location: B-HEATER CIRCUIT			CABLES									
DEVICE NAME	QTY	PMC PART NUMBER	DESCRIPTION	DEVICE NAME	QTY	PMC PART NUMBER	DESCRIPTION	DEVICE NAME	QTY	PMC PART NUMBER	DESCRIPTION	DEVICE NAME	QTY	PMC PART NUMBER	DESCRIPTION	DEVICE NAME	QTY	PMC PART NUMBER	DESCRIPTION	DEVICE NAME	QTY	PMC PART NUMBER	DESCRIPTION				
M1	1	EL-125-CARDIS	CONTACTOR 40A, ND, 3PST, 3 W/GE 40A	XFMR	1	EL-05228	70V 2A VA TRANSFORMER	CB4	1	EL-114	CIRCUIT BREAKER, 2P, 3A, UL489	NORMAL(Y) RETRACT(Y)	2	-	-	FLW VALVE	CTRL-A	1	20154	24V HEATER CONTROLLER ND	-	1	203458	INTERNAL CONTROL PANEL CABLE, 37 PIN			
L1	2	EL-143	TERMINAL BLOCK, 16MM, 125A	CB5	1	EL-150	CIRCUIT BREAKER, 1P, 63A UL489	DI-1	1	EL-154/EL-155	DPDT LATCHING RELAY 24V	DVERTEMP	1	EL-0006A	THERMAL LIMIT SWITCH	CTRL-B	2	20155	24V HOSE CONTROLLER ND	TO-HESE	1	202945-P	WIRE, A-HEATER THERMOCOUPLE, 39"				
GNP-1	1	EL-146	GROUND TERMINAL BLOCK, 16MM, 125A	CB3	1	EL-188	CIRCUIT BREAKER, 2P, 32A, UL489	ICL	1	EL-192	TERM BLOCK ICL	A-PRESS	2	EL-52-2000	PRESSURE SWITCH	SV1-1	6	20121	CYCLE COUNTER ND	B-HTR CABLE	1	202946-P	WIRE, HOSE THERMOCOUPLE, 39"				
L73	1	20122B	GREEN 240VAC	ICL TB	1	EL-199	TERM BLOCK ICL	SSR3	1	EL-199	INRUSH CURRENT LIMITER 25A	TC-A	2	HI-0921	THERMOCOUPLE TYPE E	SV2-1	2	20125	RED 24VAC/DC	H-TR CABLE	1	202946-P	WIRE, HOSE THERMOCOUPLE, 48"				
DISC KIT	1	201303	DISC MOUNTING KIT	SSR3	1	EL-35	100A 600VAC	CT COIL	1	EL-37	100A	LIFETIME COUNTER	1	200495	PULSE COUNTER, NON RESETTABLE	SV3-2	2	20126	WHITE 24VAC/DC	BLUE 18 AWG	912 ft	200944	BLUE WIRE 18 AWG				
DISC1	1	201304	DISC MOUNTING DISCONNECT	CT COIL	1	EL-37	100A	XFMR VOLTAGE	1	201242	RED 180VAC	CTRL-A	2	20154	24V HEATER CONTROLLER ND	SV4-2	2	20126	WHITE 24VAC/DC	BLACK 18 AWG	214 ft	200945	BLUE/WHITE WIRE 18 AWG				
GNP BAR	1	203260	GROUND BAR, 3 TERMINALS	XFMR CURRENT	1	201243	WHITE 240VAC	W/HEATER	1	201243	WHITE 240VAC	CTRL-B	1	20155	24V HOSE CONTROLLER ND	SV4-3	1	20127	CYCLE COUNTER ND	BLACK 18 AWG	824 ft	200946	BLACK WIRE 18 AWG				
																				GREEN 10 AWG	603 ft	200948	BLACK WIRE 18 AWG				
																				GREEN 10 AWG	81 ft	200947	GREEN WIRE 18 AWG				
																				NORMAL(G) RETRACT(G)	2	202265	PERISTALTIC PUMP 24VDC	GREEN 10 AWG	155 ft	200974	GREEN WIRE 10 AWG

Figure 7: PK-25 1Ø SCHEMATIC PG6

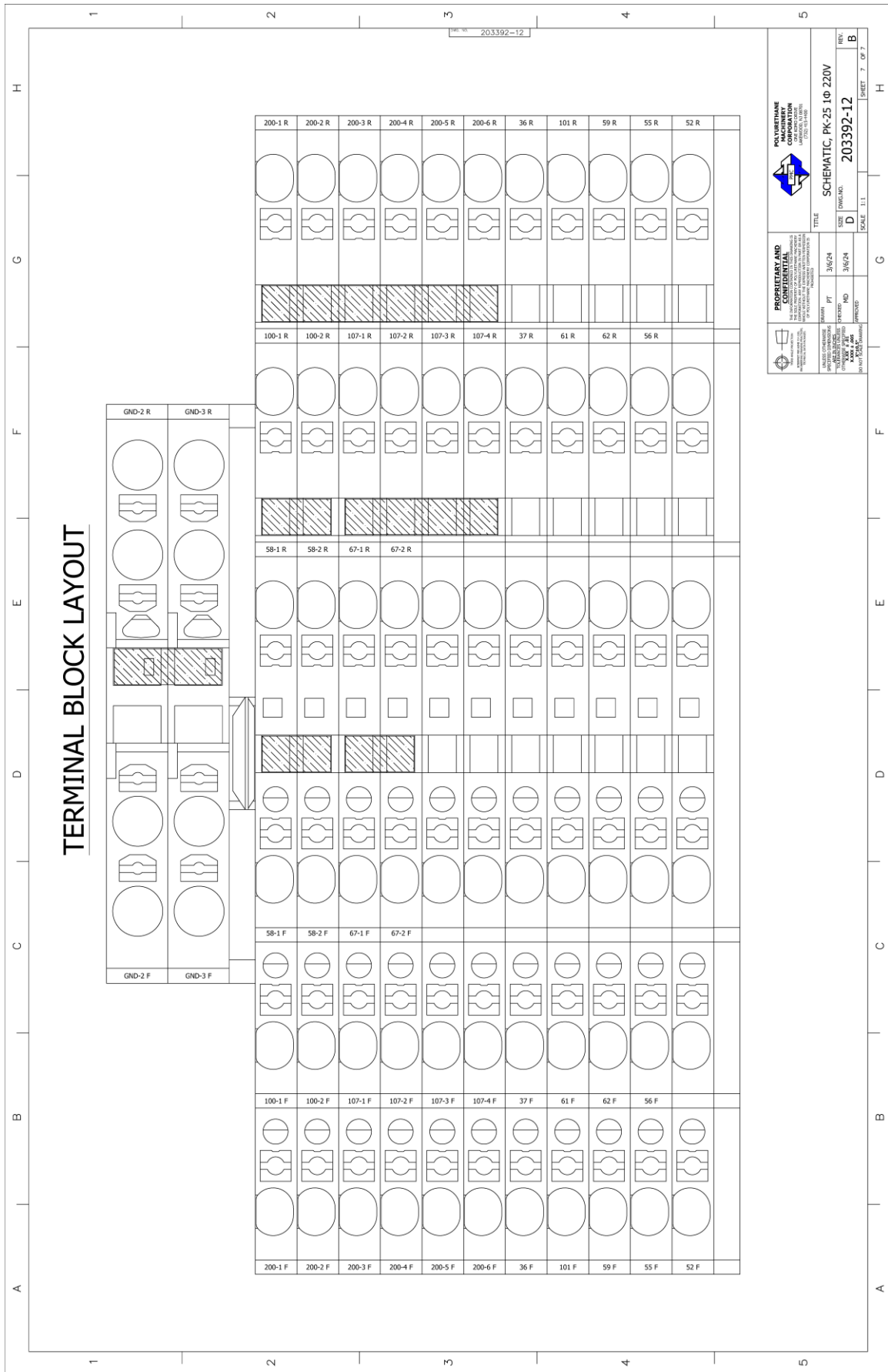


Figure 8: PK-25 1Ø SCHEMATIC PG7

4 PK-25 3Ø(Δ) SCHEMATICS

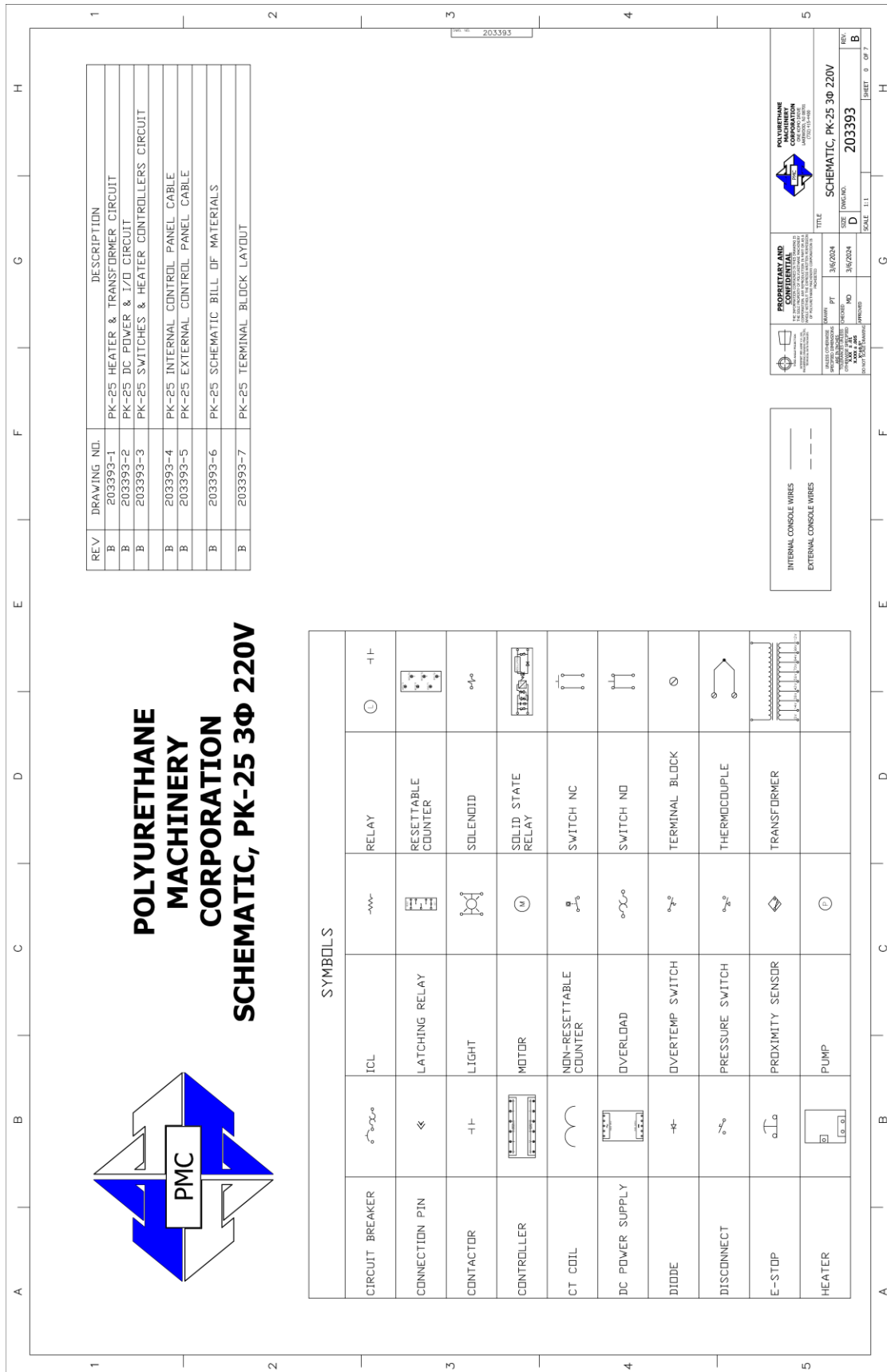


Figure 9: PK-25 3Ø SCHEMATIC PGO

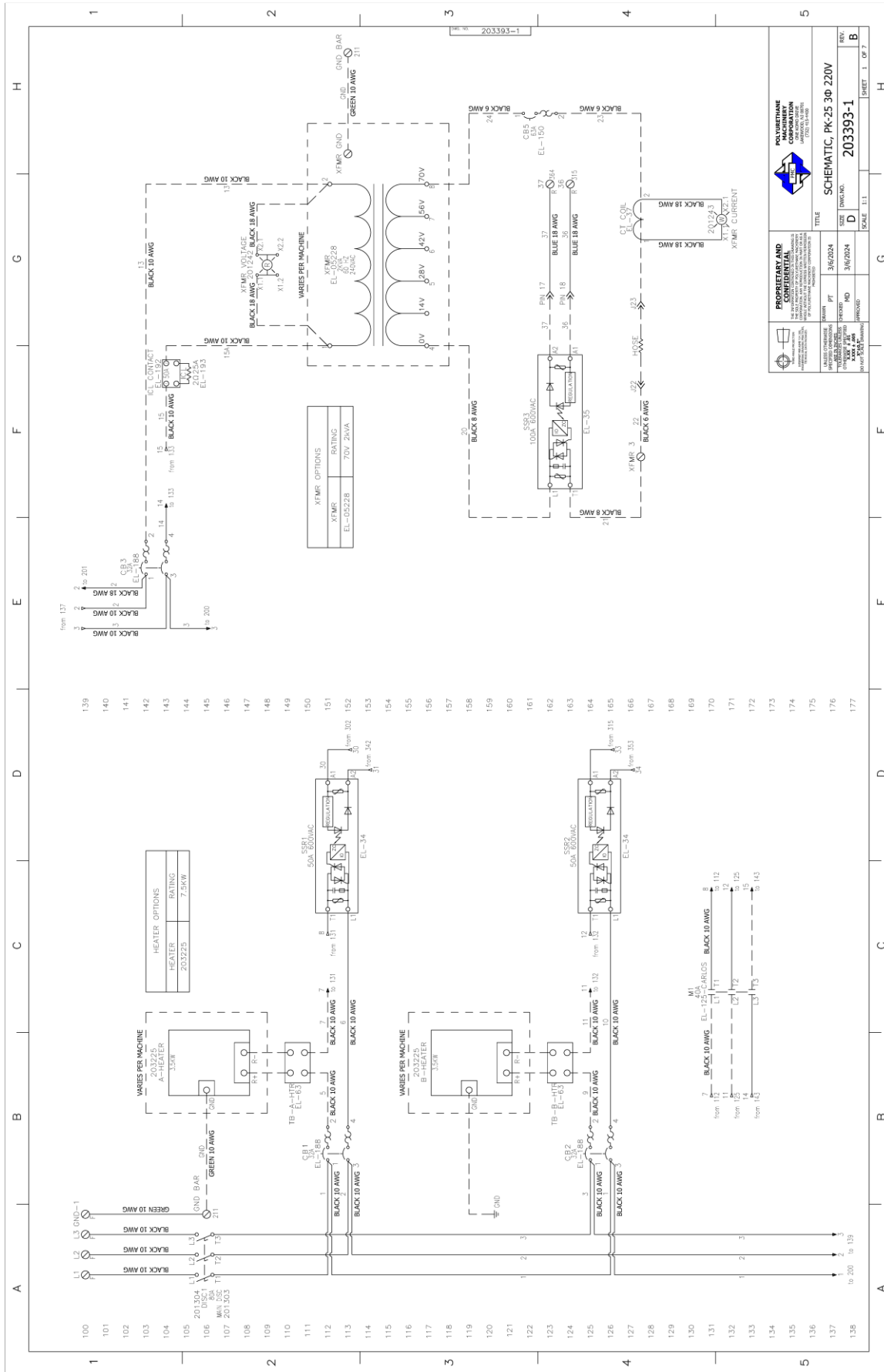


Figure 10: PK-25 3Ø SCHEMATIC PG1

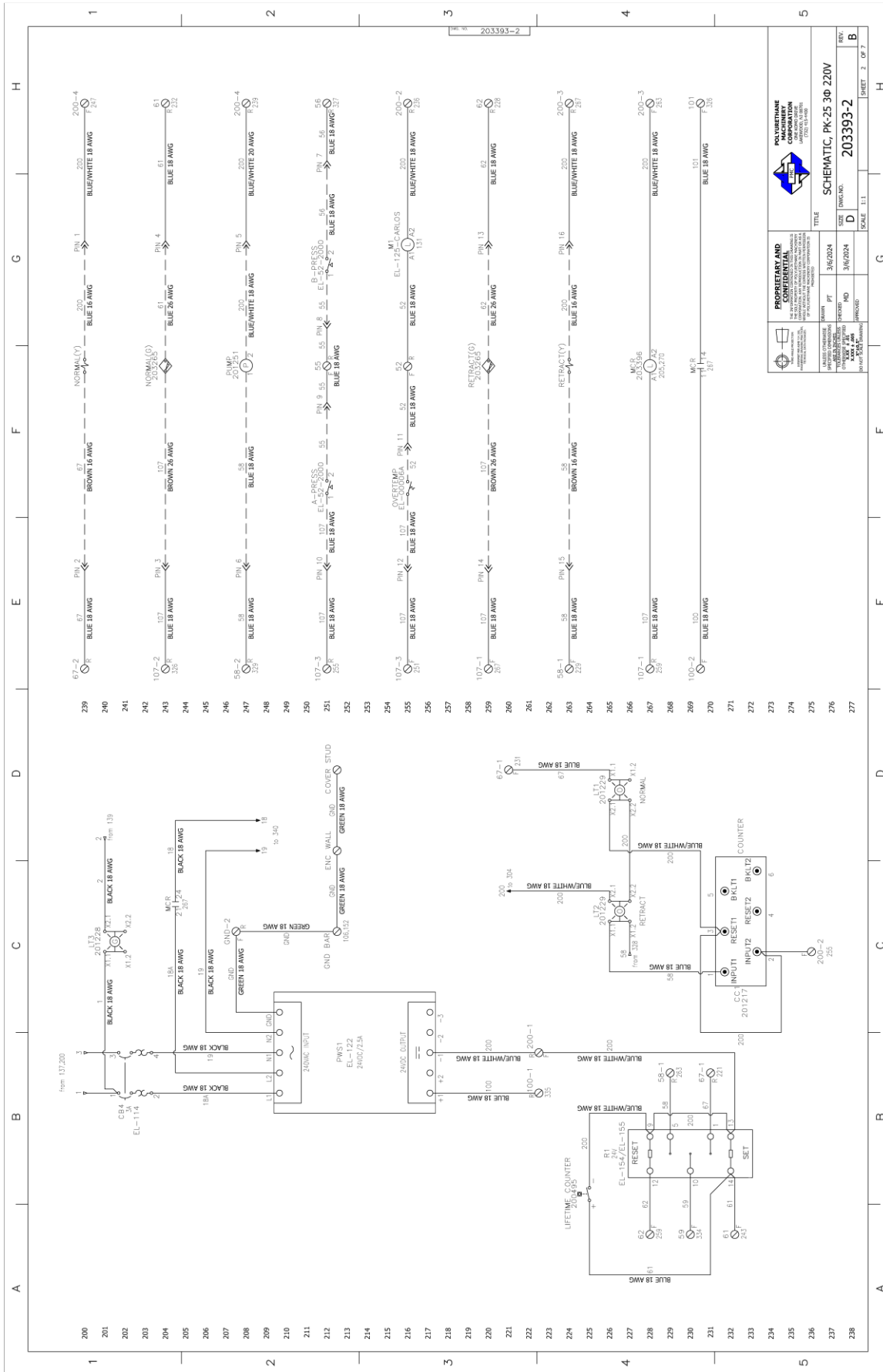


Figure 11: PK-25 3Ø SCHEMATIC PG2

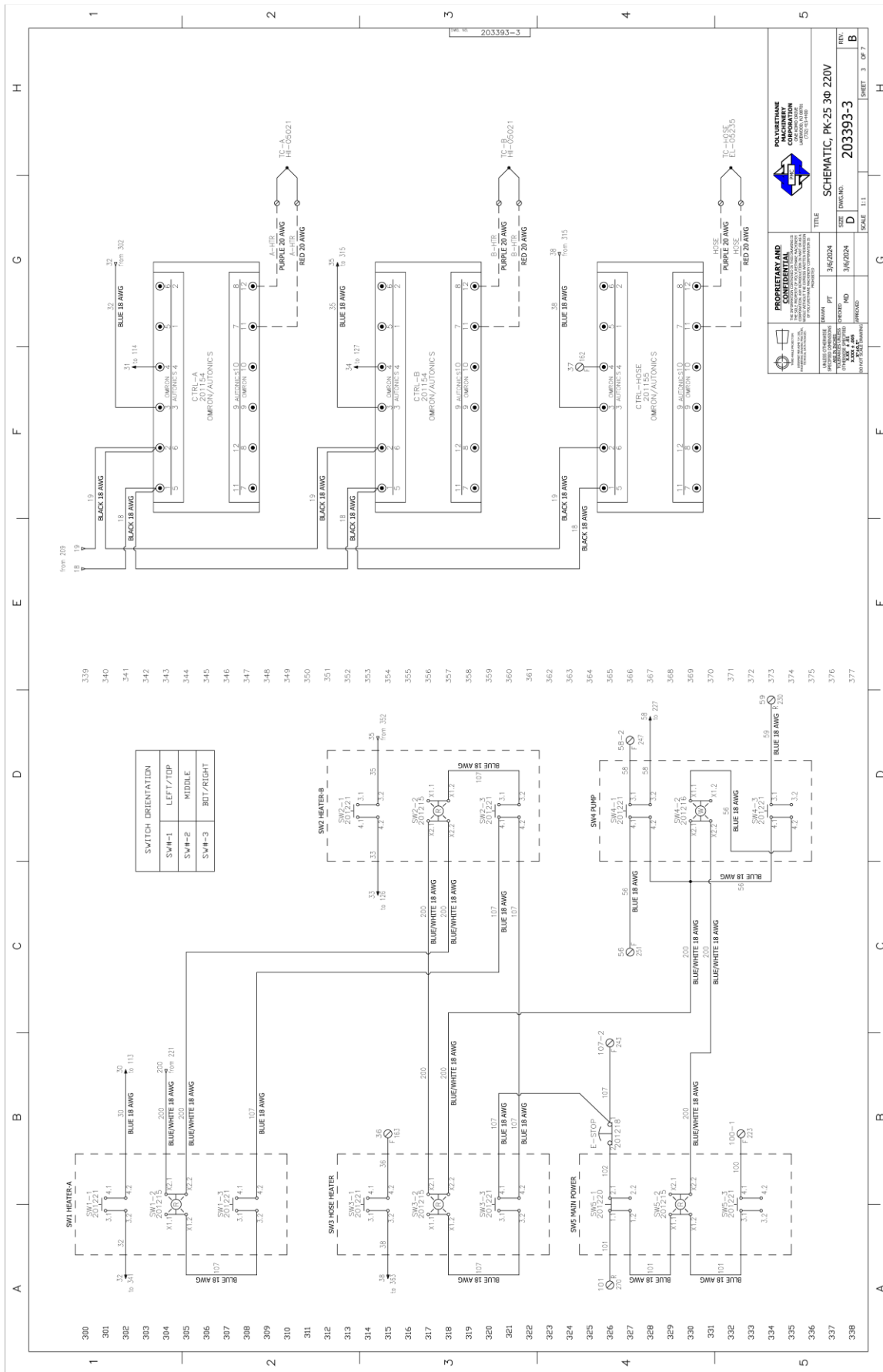


Figure 12: PK-25 3Ø SCHEMATIC PG3

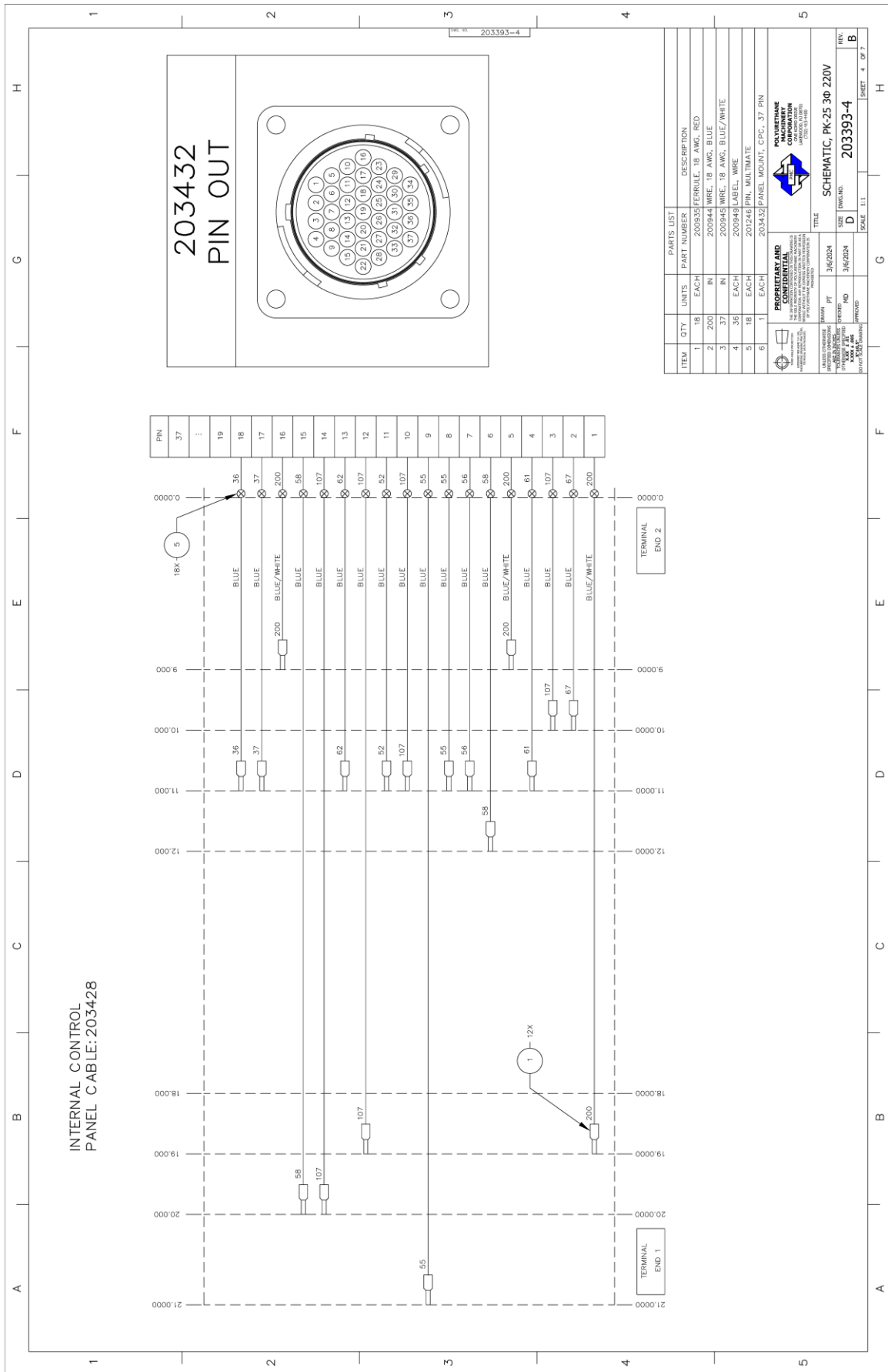


Figure 13: PK-25 3Ø SCHEMATIC PG4

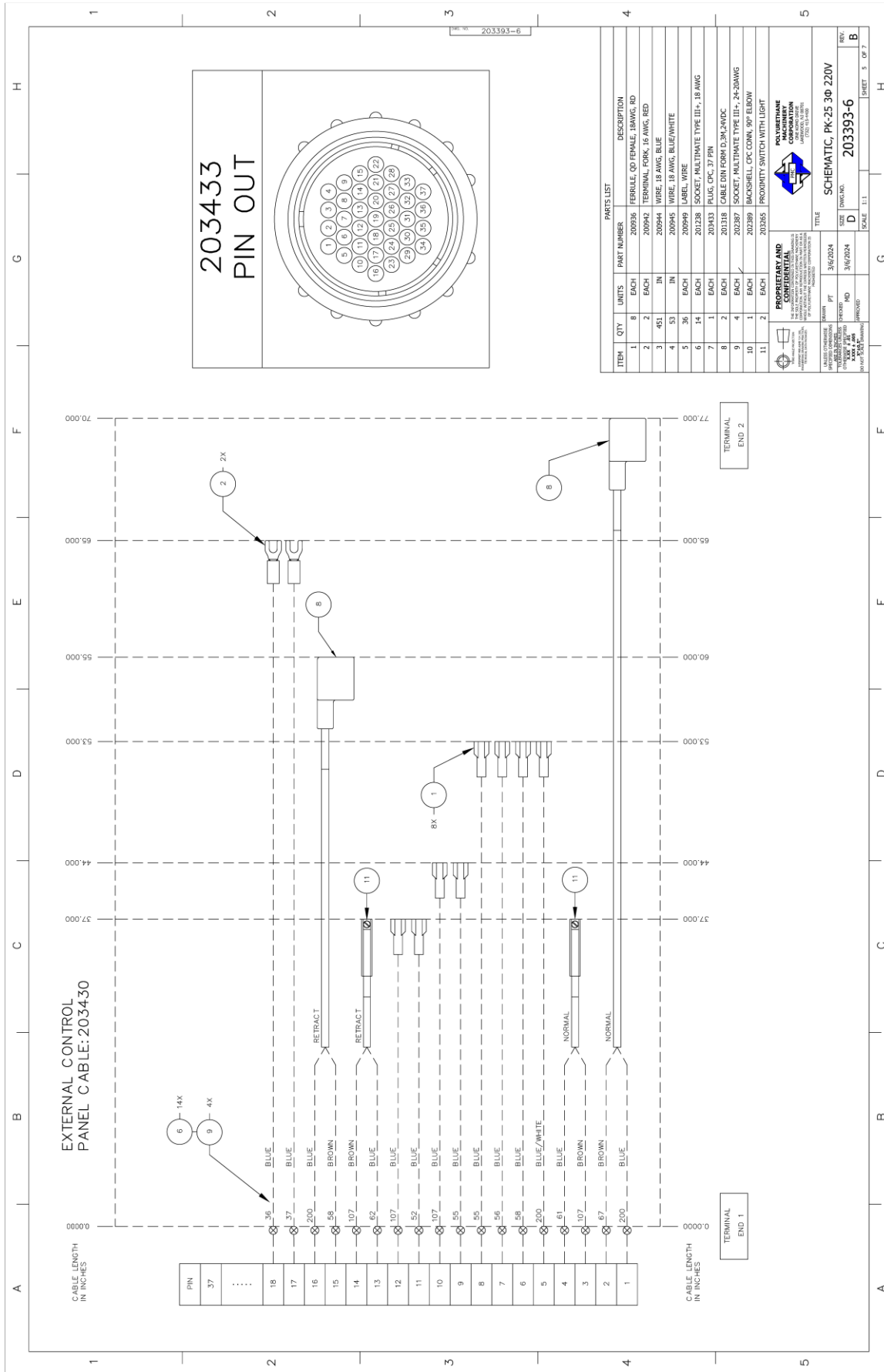
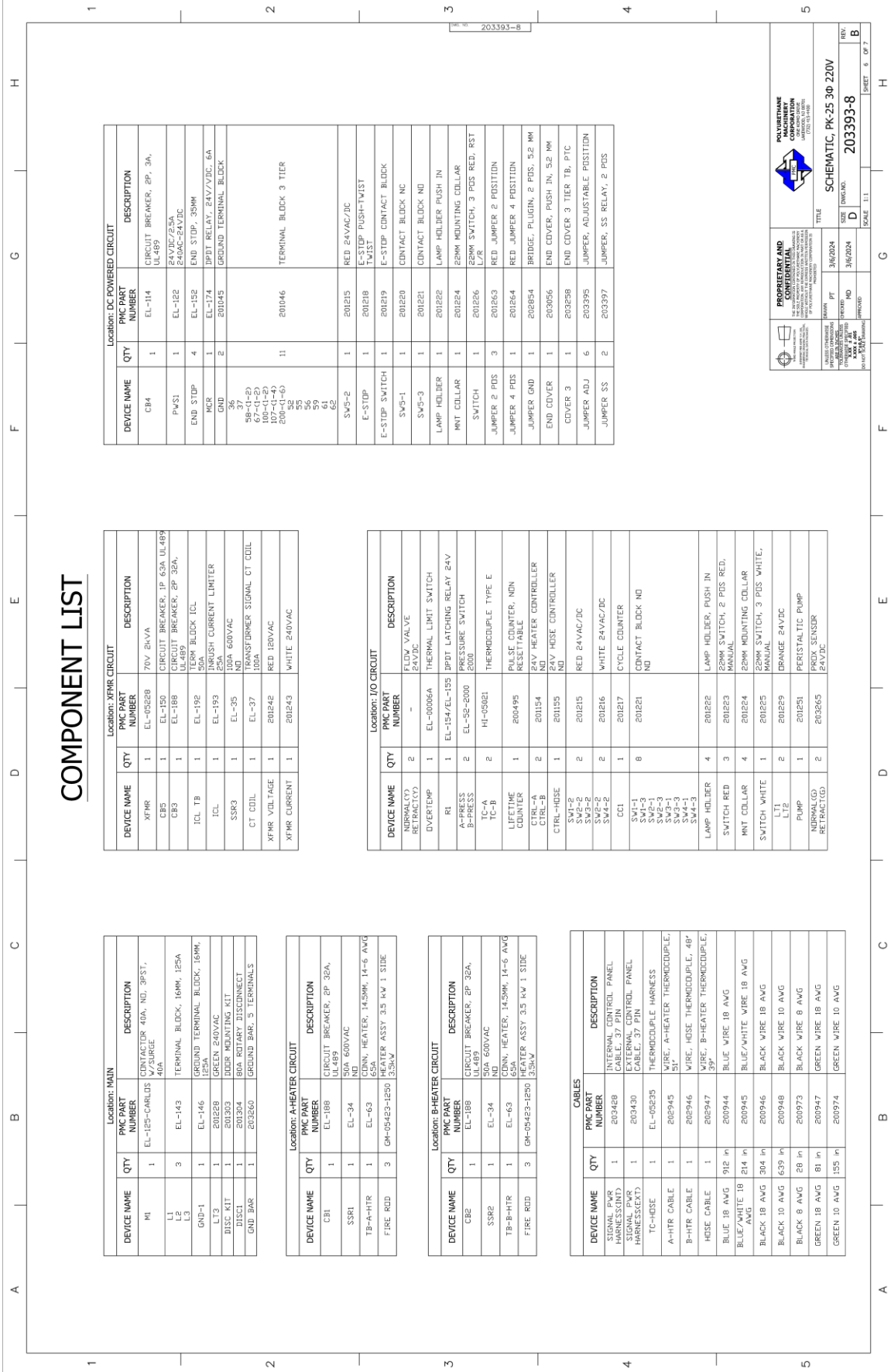


Figure 14: PK-25 3Ø SCHEMATIC PG5



COMPONENT LIST

Location: MAIN		
DEVICE NAME	QTY	DESCRIPTION
M1	1	CONTRACTOR 40A, ND, 3PST, 40A
L1	3	TERMINAL BLOCK, 16MM, 125A
L2	1	TERMINAL BLOCK, 16MM, 125A
GN0-1	1	GROUND TERMINAL BLOCK, 16MM, 125A
L73	1	GREEN 240VAC
L73	1	GREEN 240VAC
DISC KIT	1	DISC MOUNTING KIT
DJSC1	1	60A ROTARY DISCONNECT
GN0 BAR	1	GROUND BAR, 3 TERMINALS

Location: A-HEATER CIRCUIT		
DEVICE NAME	QTY	DESCRIPTION
CB1	1	CIRCUIT BREAKER, 2P 32A, UL489
SSR1	1	SSR, 600VAC
TB-A-HTR	1	HEATER, 14.5MM, 14-6 AWG
FIRE ROD	3	HEATER ASSY 3.5 kW 1 SIDE

Location: B-HEATER CIRCUIT		
DEVICE NAME	QTY	DESCRIPTION
CB2	1	CIRCUIT BREAKER, 2P 32A, UL489
SSR2	1	SSR, 600VAC
TB-B-HTR	1	CONN. HEATER, 14.5MM, 14-6 AWG
FIRE ROD	3	HEATER ASSY 3.5 kW 1 SIDE

CABLES		
DEVICE NAME	QTY	DESCRIPTION
SIGNAL PWR HARNESS(INT)	1	INTERNAL CONTROL PANEL CABLE, 37 PIN
SIGNAL PWR HARNESS(EXT)	1	EXTERNAL CONTROL PANEL CABLE, 37 PIN
TC-HOSE	1	TC-HOSE
A-HTR CABLE	1	WIRE, A-HEATER THERMOCOUPLE, 48"
B-HTR CABLE	1	WIRE, B-HEATER THERMOCOUPLE, 48"
HOSE CABLE	1	WIRE, HOSE THERMOCOUPLE, 39"
BLUE 1Ø AVG	912 in	BLUE WIRE 1Ø AVG
BLUE/WHITE 1Ø AVG	214 in	BLUE/WHITE WIRE 1Ø AVG
BLACK 1Ø AVG	304 in	BLACK WIRE 1Ø AVG
BLACK 1Ø AVG	639 in	BLACK WIRE 1Ø AVG
BLACK 8 AVG	26 in	BLACK WIRE 8 AVG
GREEN 18 AVG	81 in	GREEN WIRE 18 AVG
GREEN 10 AVG	150 in	GREEN WIRE 10 AVG

Location: XFMR CIRCUIT		
DEVICE NAME	QTY	DESCRIPTION
XFMR	1	70V, 24VA
CB3	1	CIRCUIT BREAKER, 1P 63A UL489
CB3	1	CIRCUIT BREAKER, 2P 32A, UL489
ICL TB	1	TERM BLOCK ICL
ICL	1	TERM BLOCK ICL
SSR3	1	TRANSFORMER SIGNAL CT COIL 100A 600VAC
CT COIL	1	RED 180VAC
XFMR VOLTAGE	1	RED 180VAC
XFMR CURRENT	1	WHITE 240VAC

Location: I/O CIRCUIT		
DEVICE NAME	QTY	DESCRIPTION
NORMALCY) RETRACTCY)	2	FLOW VALVE 24VDC
DIVERTW/P	1	THERMAL LIMIT SWITCH
PL	1	EL-154/EL-155 (PBIT LATCHING RELAY 24V
A-PRESS B-PRESS	2	PROGRESSIVE SWITCH 200S
TC-A TC-B	2	HI-09021 THERMOCOUPLE TYPE E
LIFETIME COUNTER	1	PULSE COUNTER, NON RESETTABLE
CTRL-A CTRL-B	2	24V HEATER CONTROLLER ND
SW1-2 SW2-2 SW3-2 SW4-2	2	RED 24VAC/DC
SW1-1 SW2-1 SW3-1 SW4-1	2	WHITE 24VAC/DC
CCI	1	CYCLE COUNTER
SW1-3 SW2-3 SW3-3 SW4-3	8	CONTACT BLOCK ND
LAMP HOLDER	4	LAMP HOLDER, PUSH IN
SWITCH RED	3	22MM SWITCH, 2 POS RED, MANUAL
MNT COLLAR	4	22MM MOUNTING COLLAR
SWITCH WHITE	1	22MS SWITCH, 3 POS WHITE, MANUAL
LTI	2	DRANGE 24VDC
PUMP	1	PERISTALTIC PUMP
NORMALCY) RETRACTCY)	2	PROX SENSOR 24VDC

Location: DC POWERED CIRCUIT		
DEVICE NAME	QTY	DESCRIPTION
CB4	1	CIRCUIT BREAKER, 2P, 3A, UL489
PAWS1	1	24VDC/2.5A 240AC-24VDC
END STDP	4	END STDP, 35MM
MCR	1	DPDT RELAY, 24V/VDC, 6A
GN1	2	GROUND TERMINAL BLOCK 36
58-(1-2) 67-(1-2) 107-(1-2) 107-(1-4) 200-(1-6) 36 56 59 62	11	TERMINAL BLOCK 3 TIER
SW5-2	1	RED 24VAC/DC
E-STDP	1	E-STDP PUSH-TWIST
E-STDP SWITCH	1	E-STDP CONTACT BLOCK
SW5-1	1	CONTACT BLOCK NC
SW5-3	1	CONTACT BLOCK ND
LAMP HOLDER	1	LAMP HOLDER PUSH IN
MNT COLLAR	1	22MM MOUNTING COLLAR
SWITCH	1	22MM SWITCH, 3 POS RED, RST L/R
JUMPER 2 POS	3	RED JUMPER 2 POSITION
JUMPER 4 POS	1	RED JUMPER 4 POSITION
JUMPER GND	1	BRIDGE, PLUG-IN, 2 POS, 5.6 MM
END COVER	1	END COVER, PUSH IN, 52 MM
COVER 3	1	END COVER 3 TIER TB, PTC
JUMPER ADJ	6	JUMPER, ADJUSTABLE POSITION
JUMPER SS	2	JUMPER, SS RELAY, 2 POS

PROPRIETARY AND CONFIDENTIAL

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DATE OF REVISION: 3/6/2024
 DRAWING NO: 203393-8
 TITLE: SCHEMATIC, PK-25 3Ø 220V

SCALE: 1:1

REV: B

SHEET 6 OF 7

Figure 15: PK-25 3Ø SCHEMATIC PG6

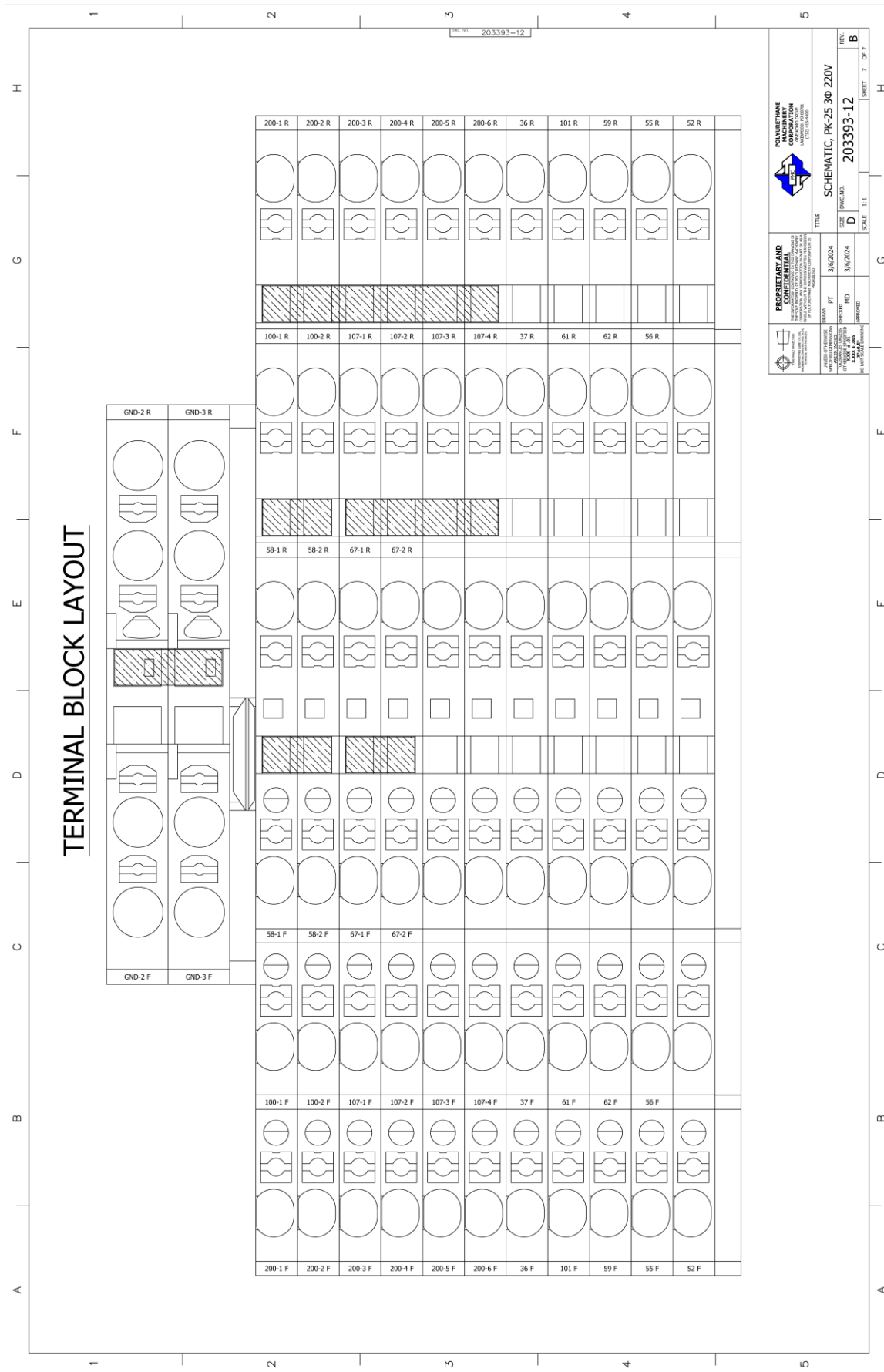


Figure 16: PK-25 3Ø SCHEMATIC PG7

5 PKX-25 1Ø SCHEMATICS

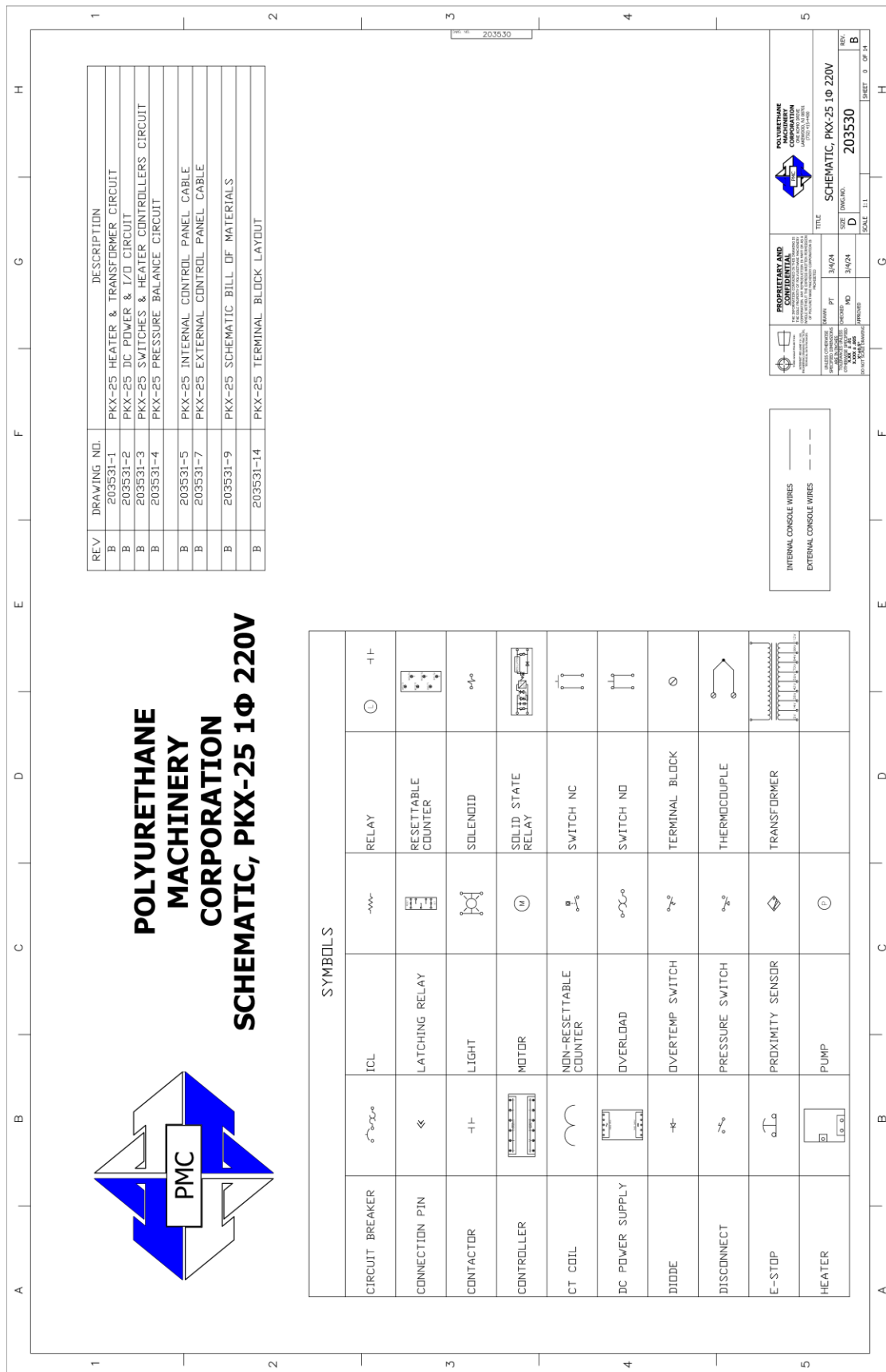


Figure 17: PKX-25 1Ø SCHEMATIC PG0

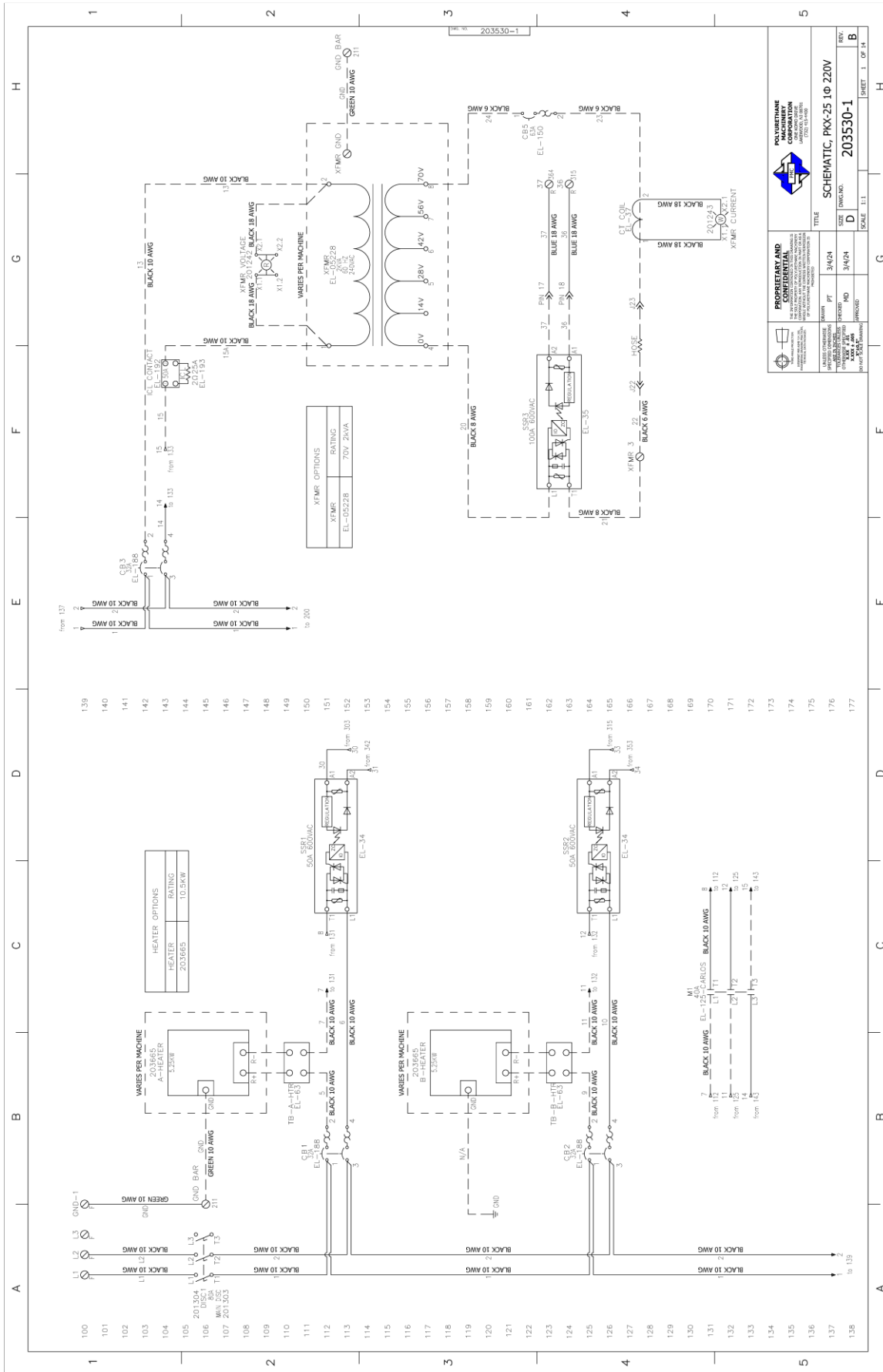


Figure 18: PKX-25 1Ø SCHEMATIC PG1

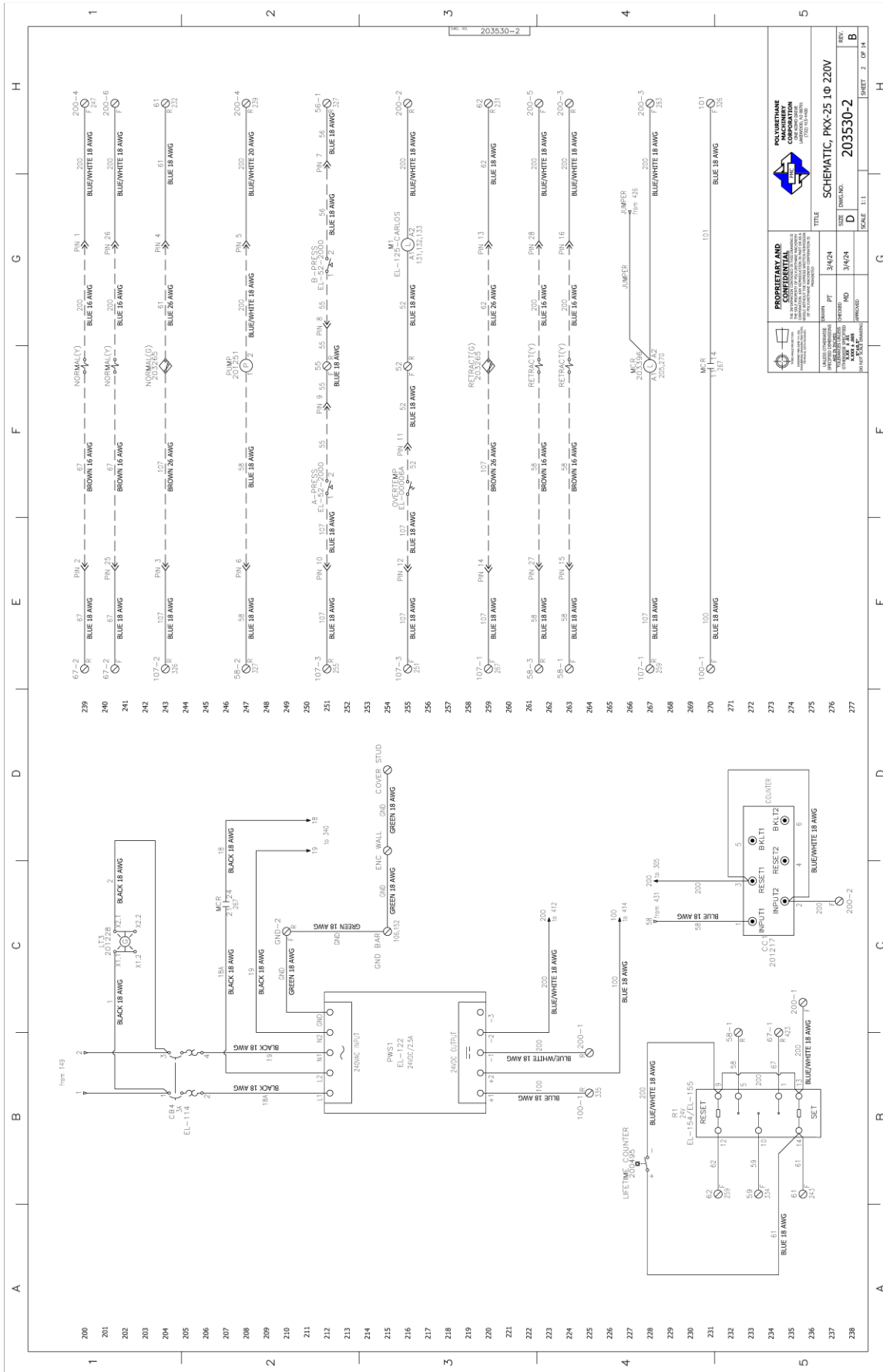


Figure 19: PKX-25 1Ø SCHEMATIC PG2

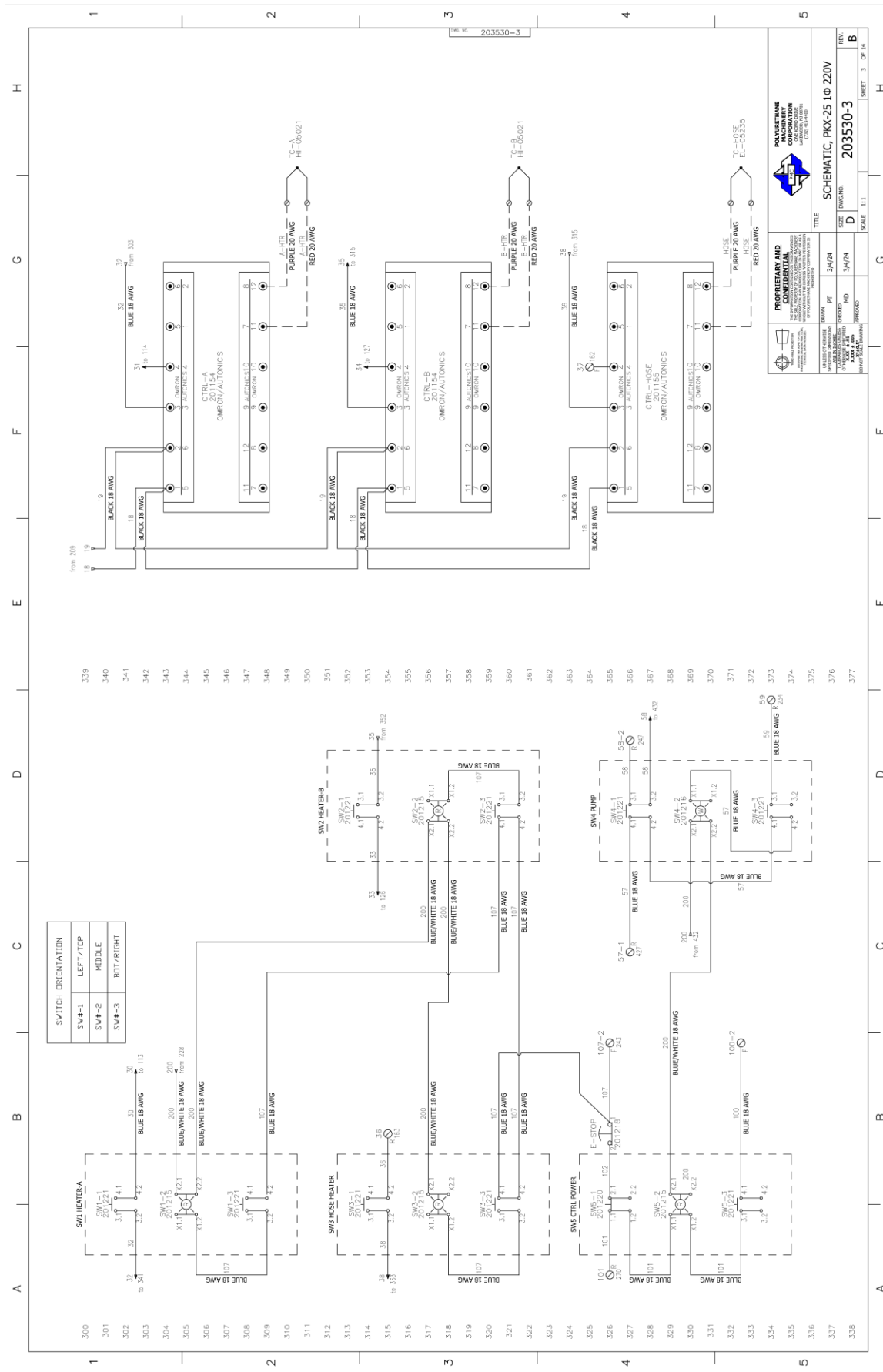
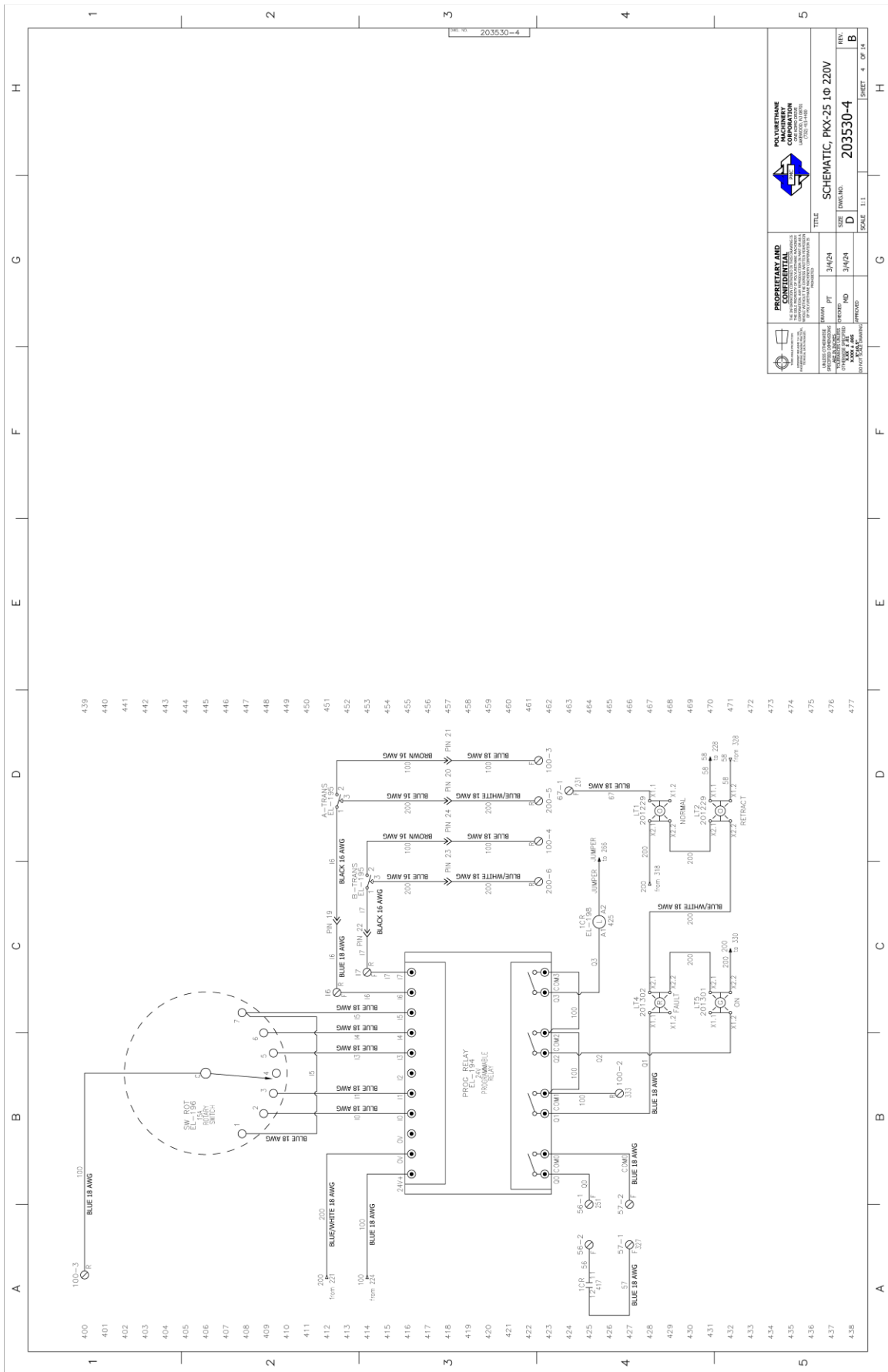


Figure 20: PKX-25 1Ø SCHEMATIC PG3



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TITLE SCHEMATIC, PKX-25 1Ø 220V		REV. B	
SIZE D		SCALE 1:1	
DATE 203530-4		SHEET 4 OF 14	

Figure 21: PKX-25 1Ø SCHEMATIC PG4

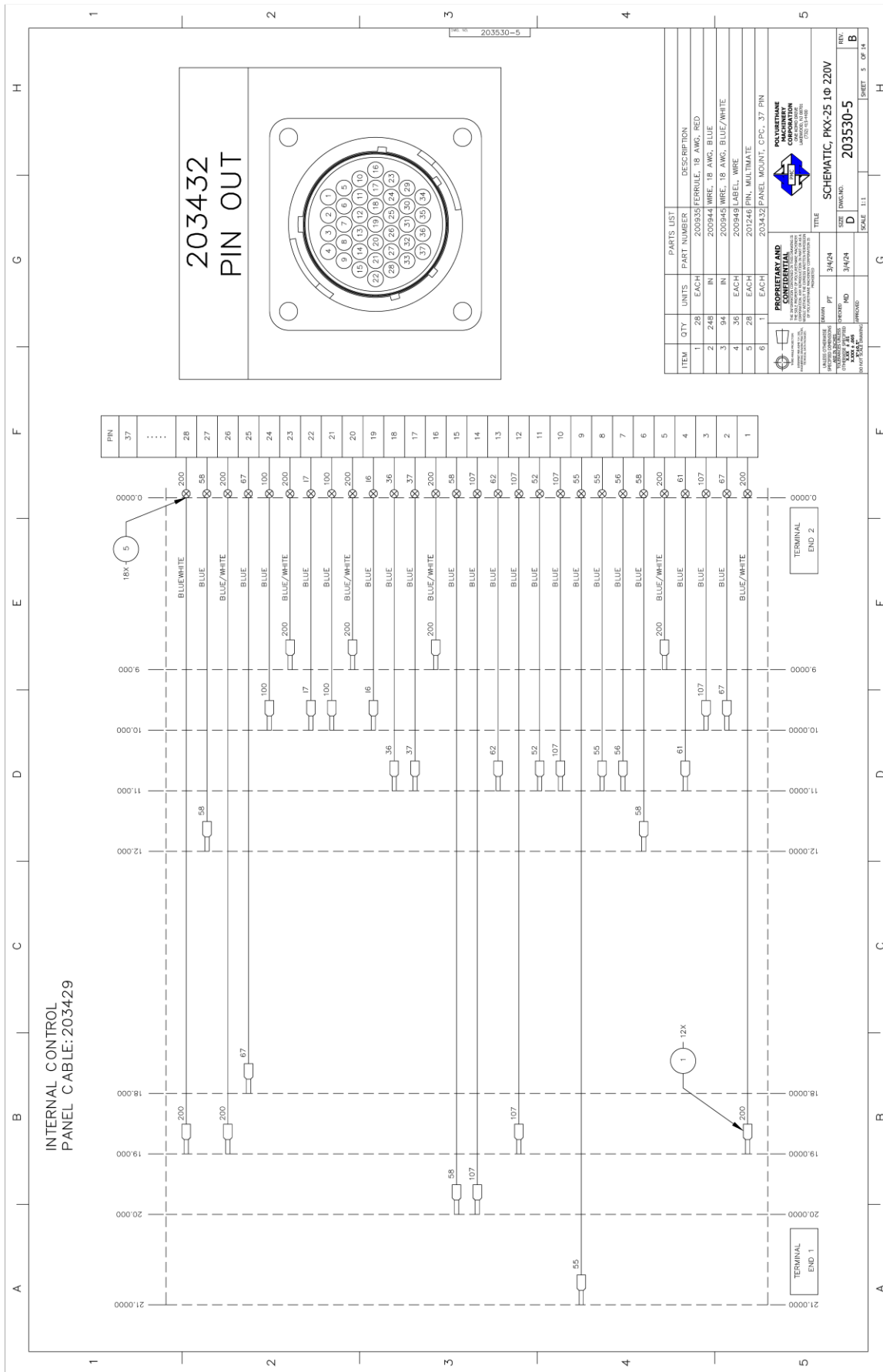


Figure 22: PKX-25 1Ø SCHEMATIC PG5

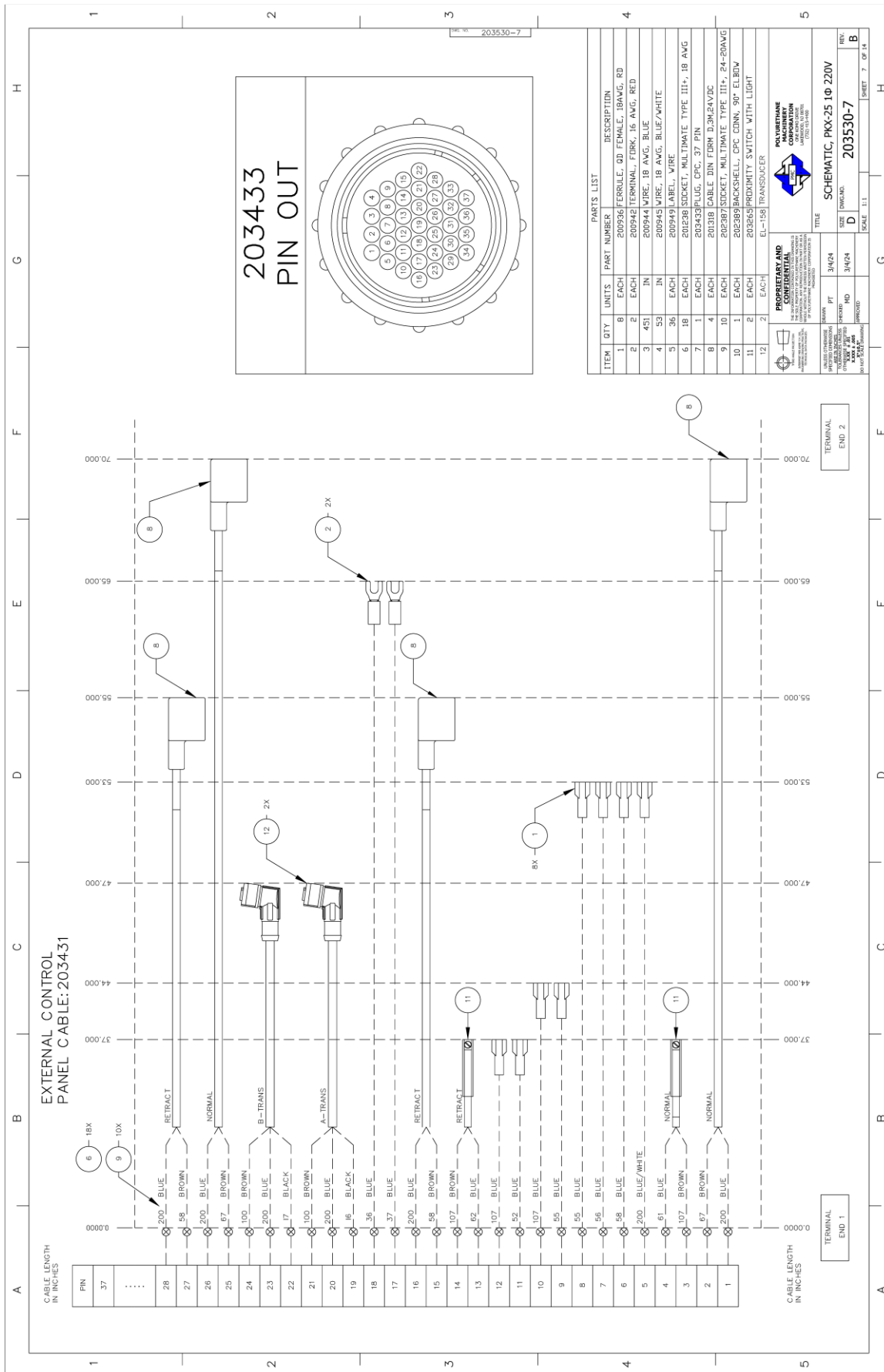


Figure 23: PKX-25 1Ø SCHEMATIC PG6

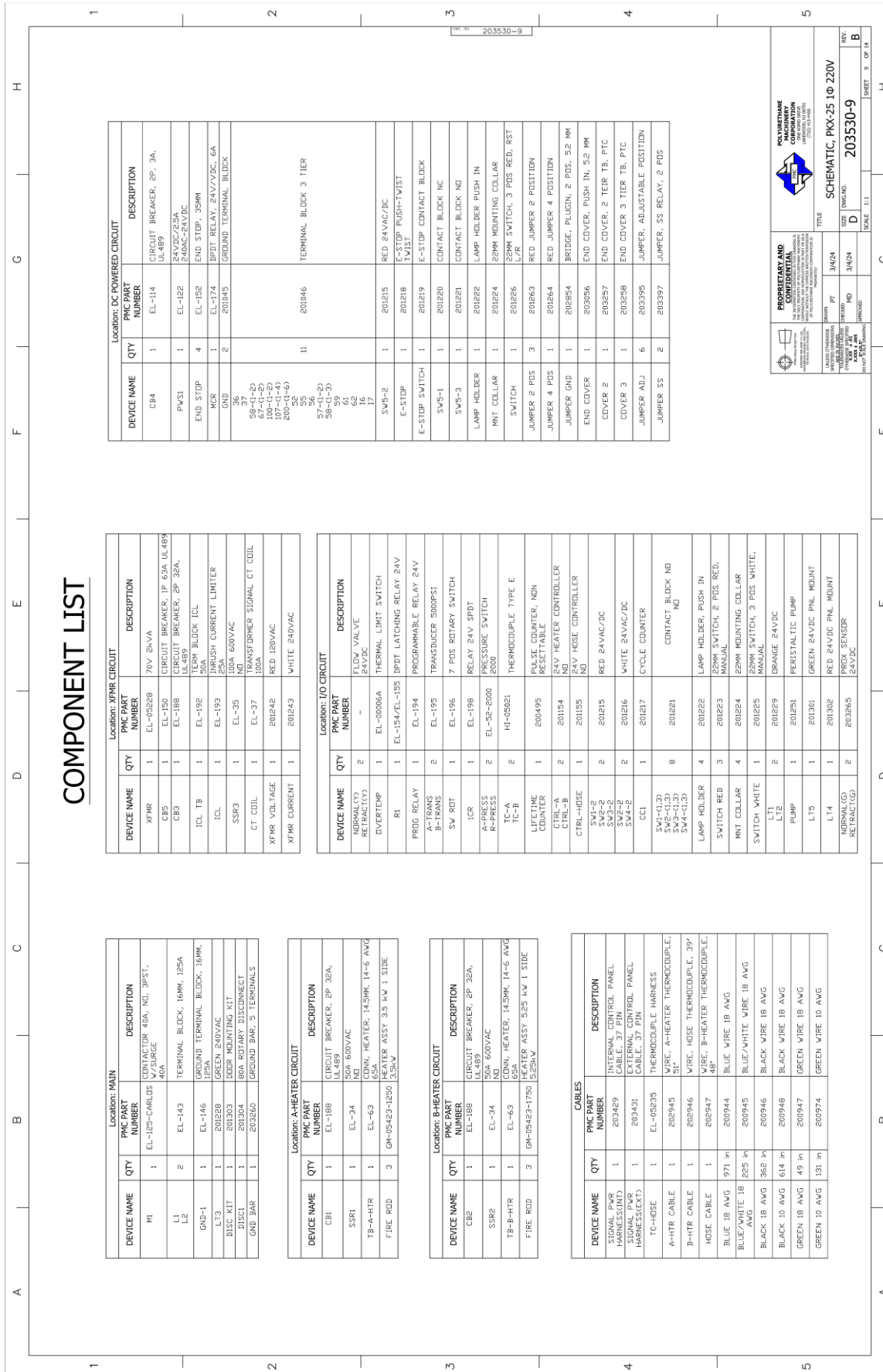


Figure 24: PKX-25 1Ø SCHEMATIC PG7

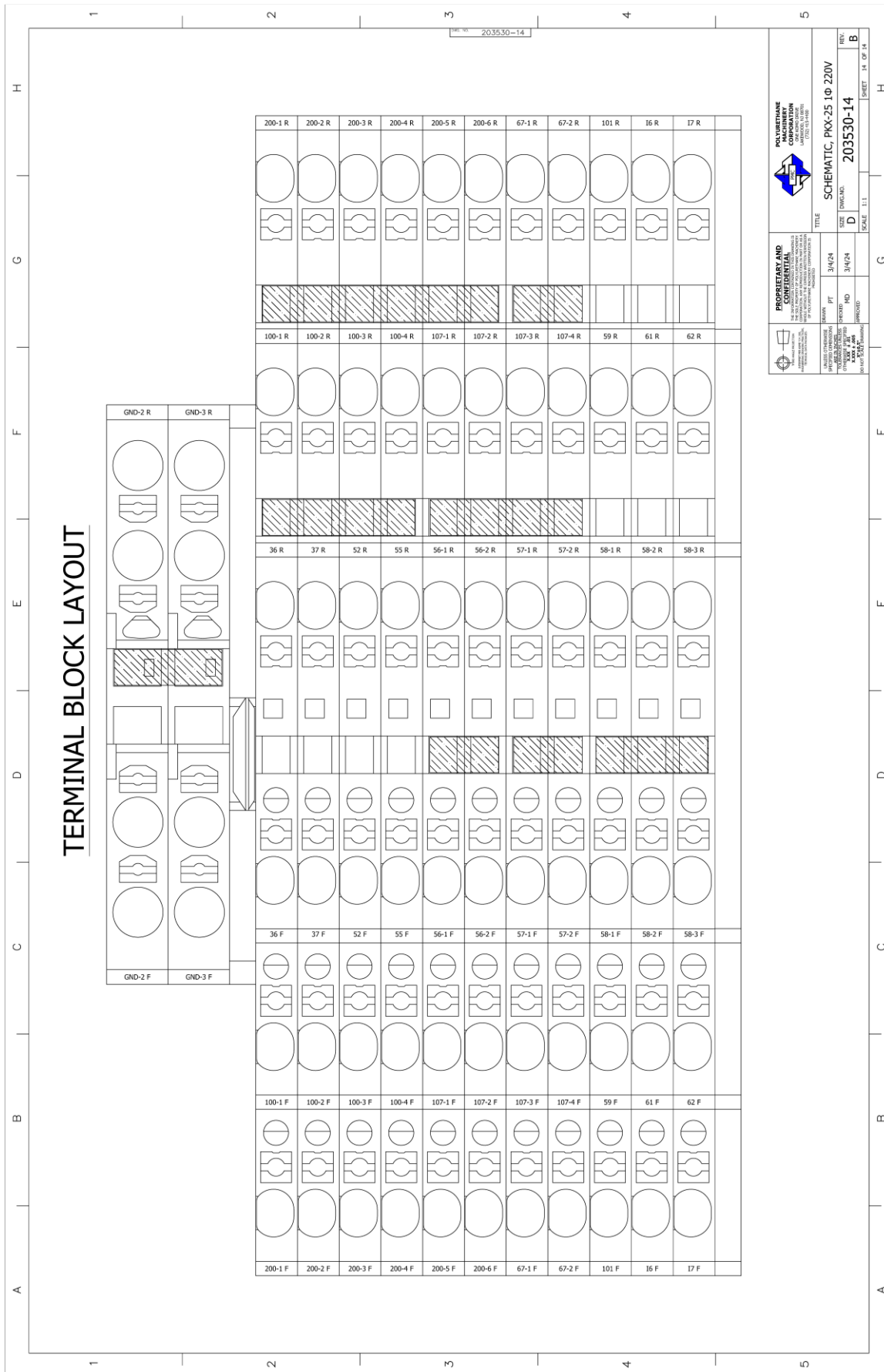


Figure 25: PKX-25 1Ø SCHEMATIC PG8

6 PKX-25 3Ø(Δ) SCHEMATICS

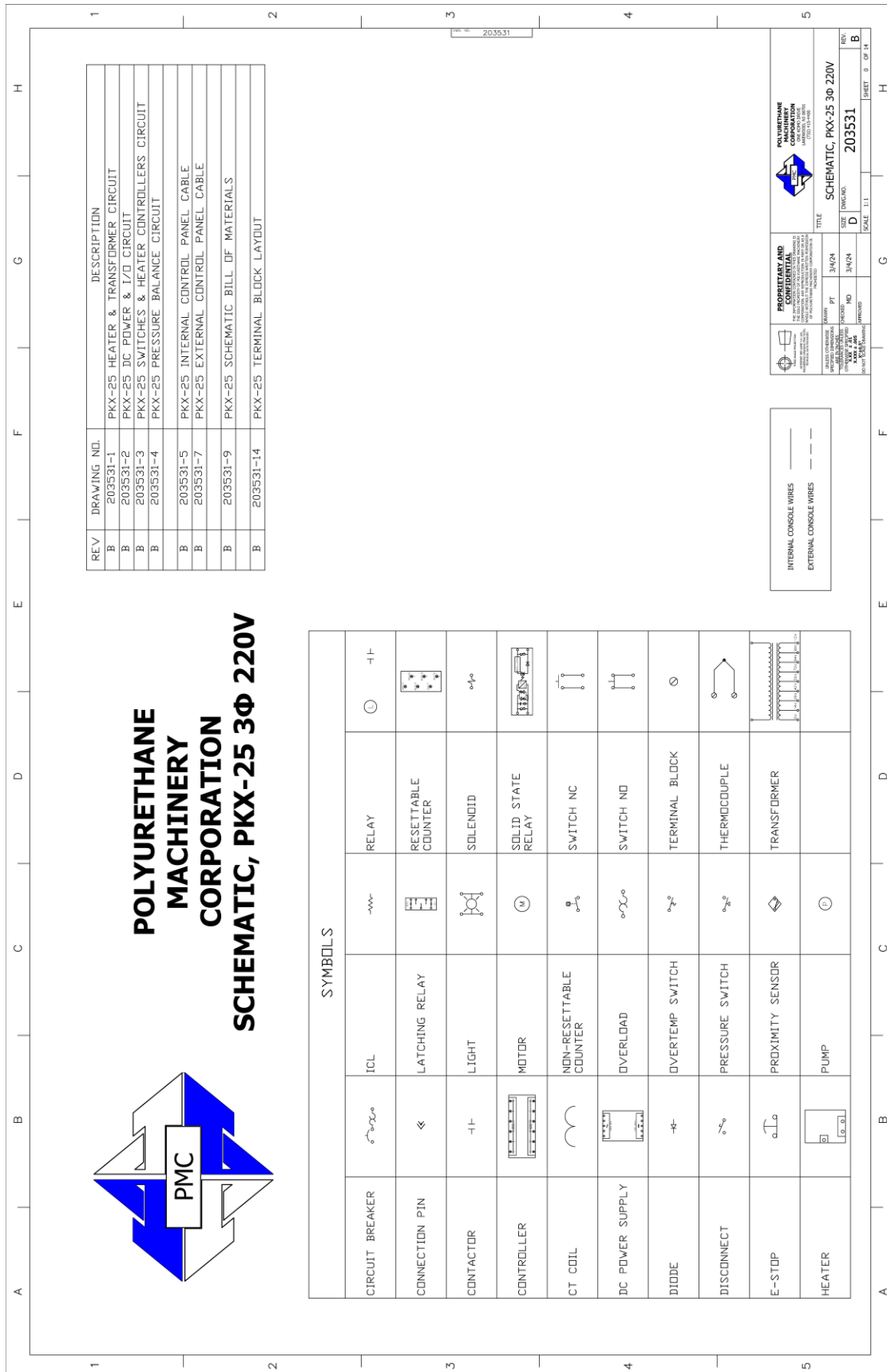


Figure 26: PKX-25 3Ø SCHEMATIC PG0

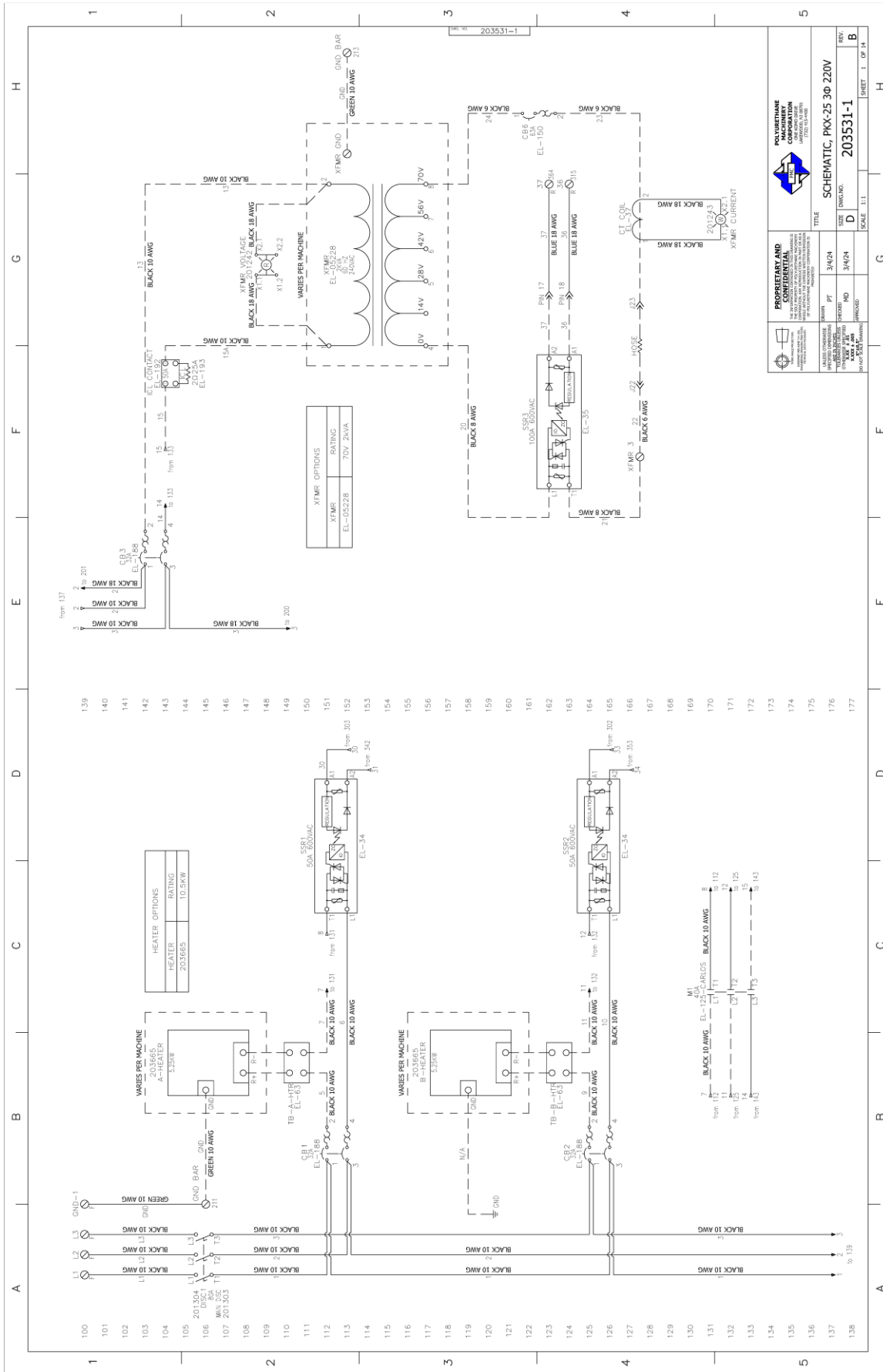


Figure 27: PKX-25 3Ø SCHEMATIC PG1

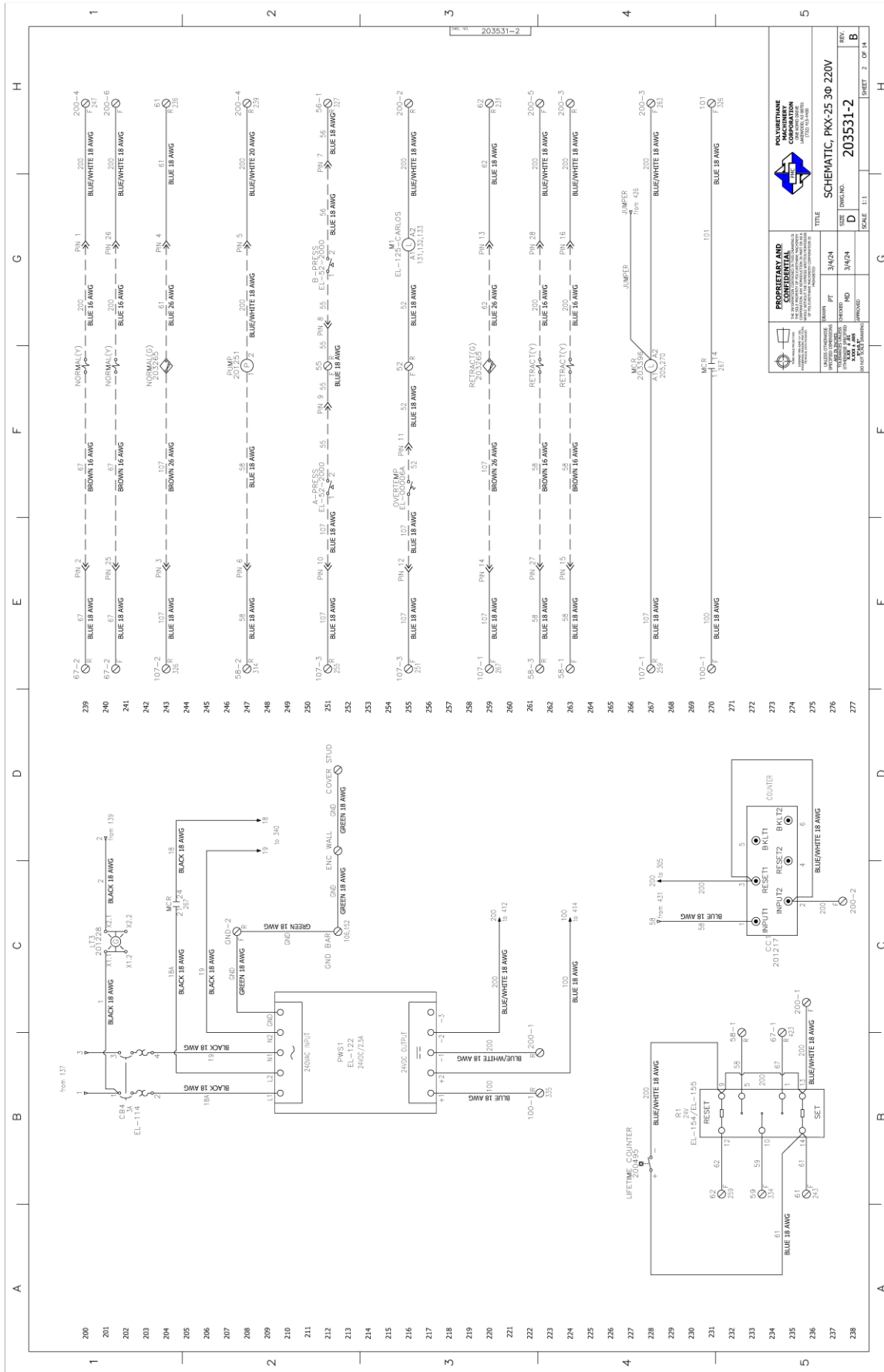


Figure 28: PKX-25 3Ø SCHEMATIC PG2

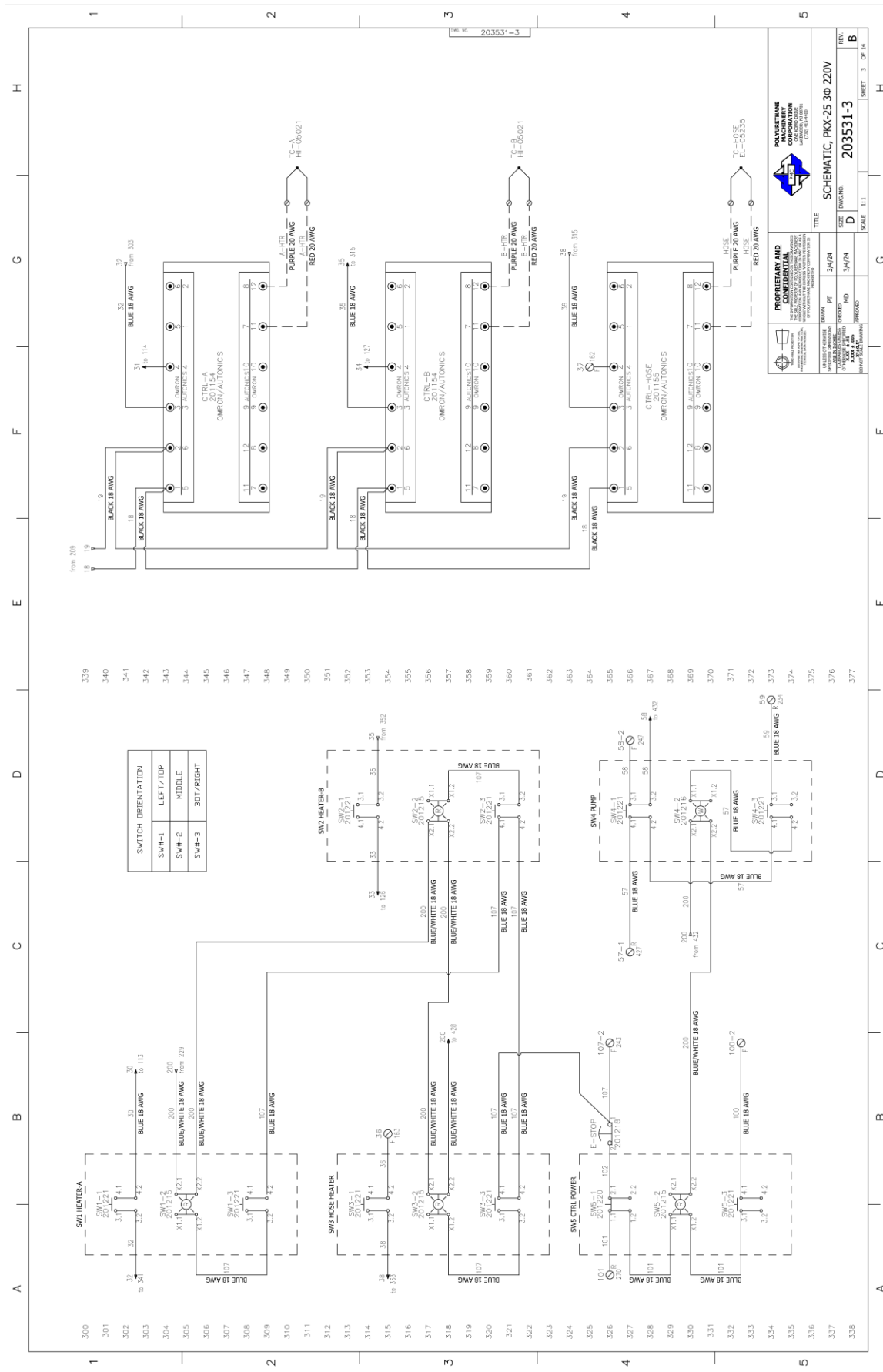


Figure 29: PKX-25 3Ø SCHEMATIC PG3

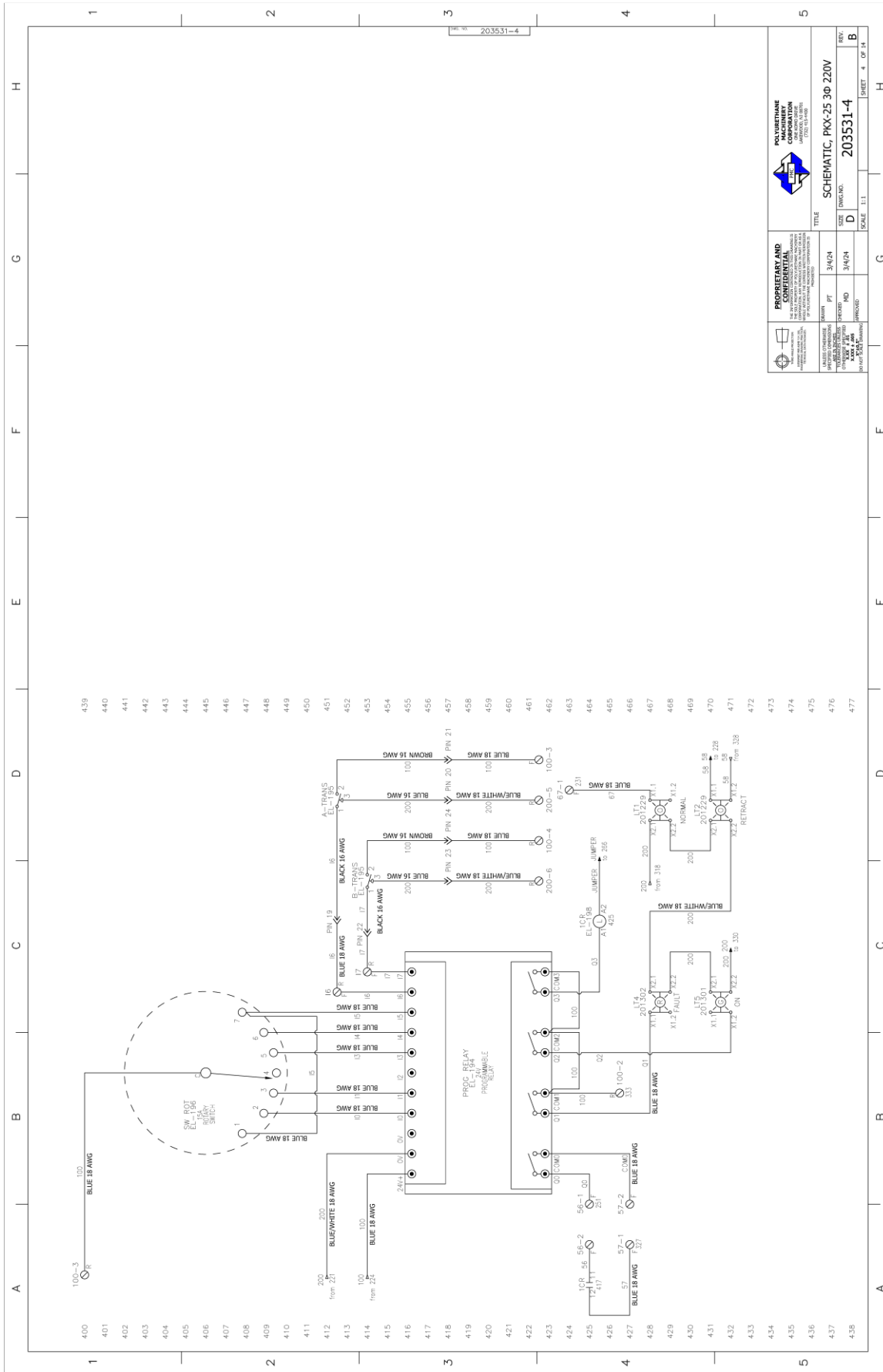


Figure 30: PKX-25 3Ø SCHEMATIC PG4

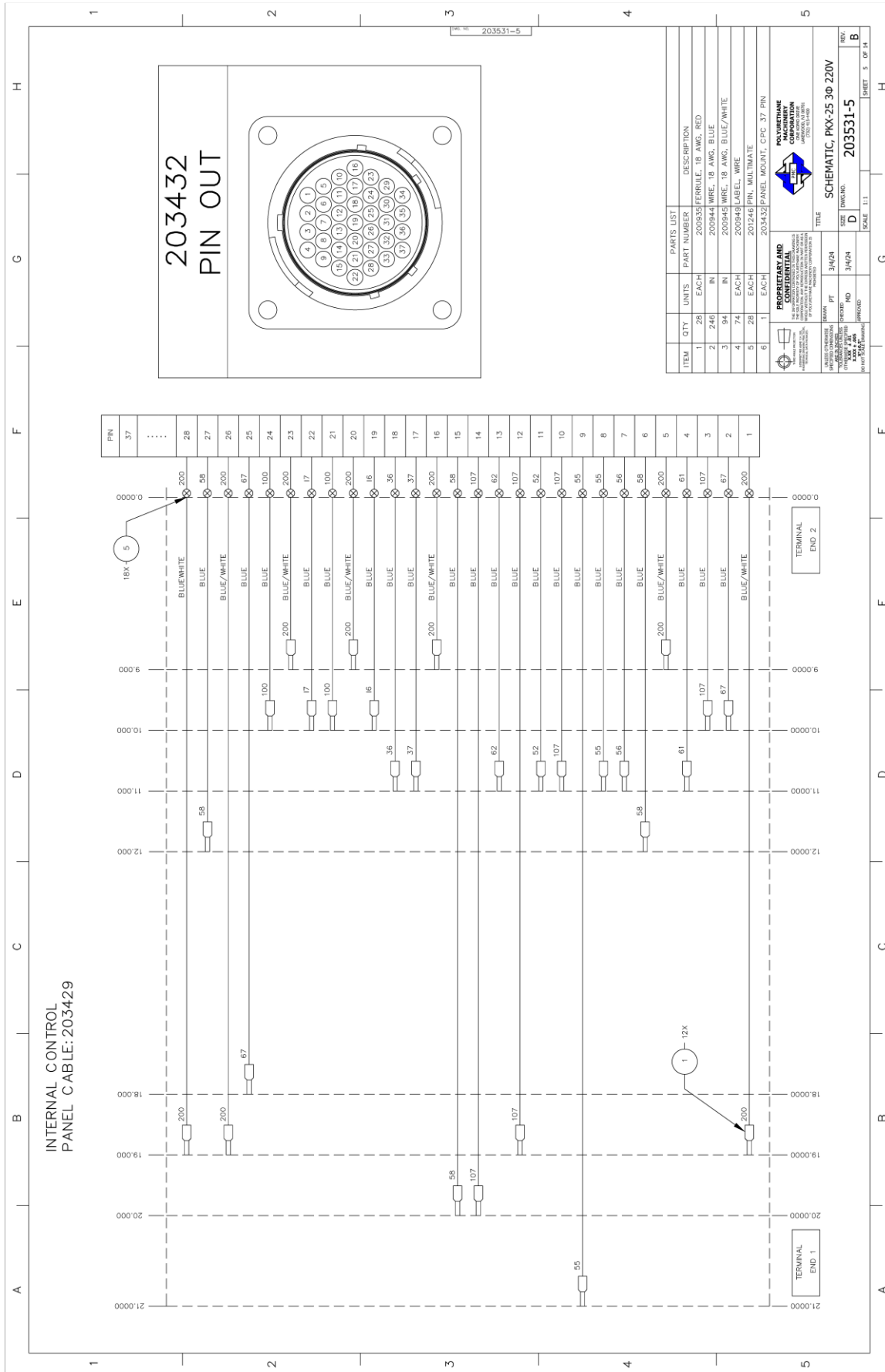


Figure 31: PKX-25 3Ø SCHEMATIC PG5

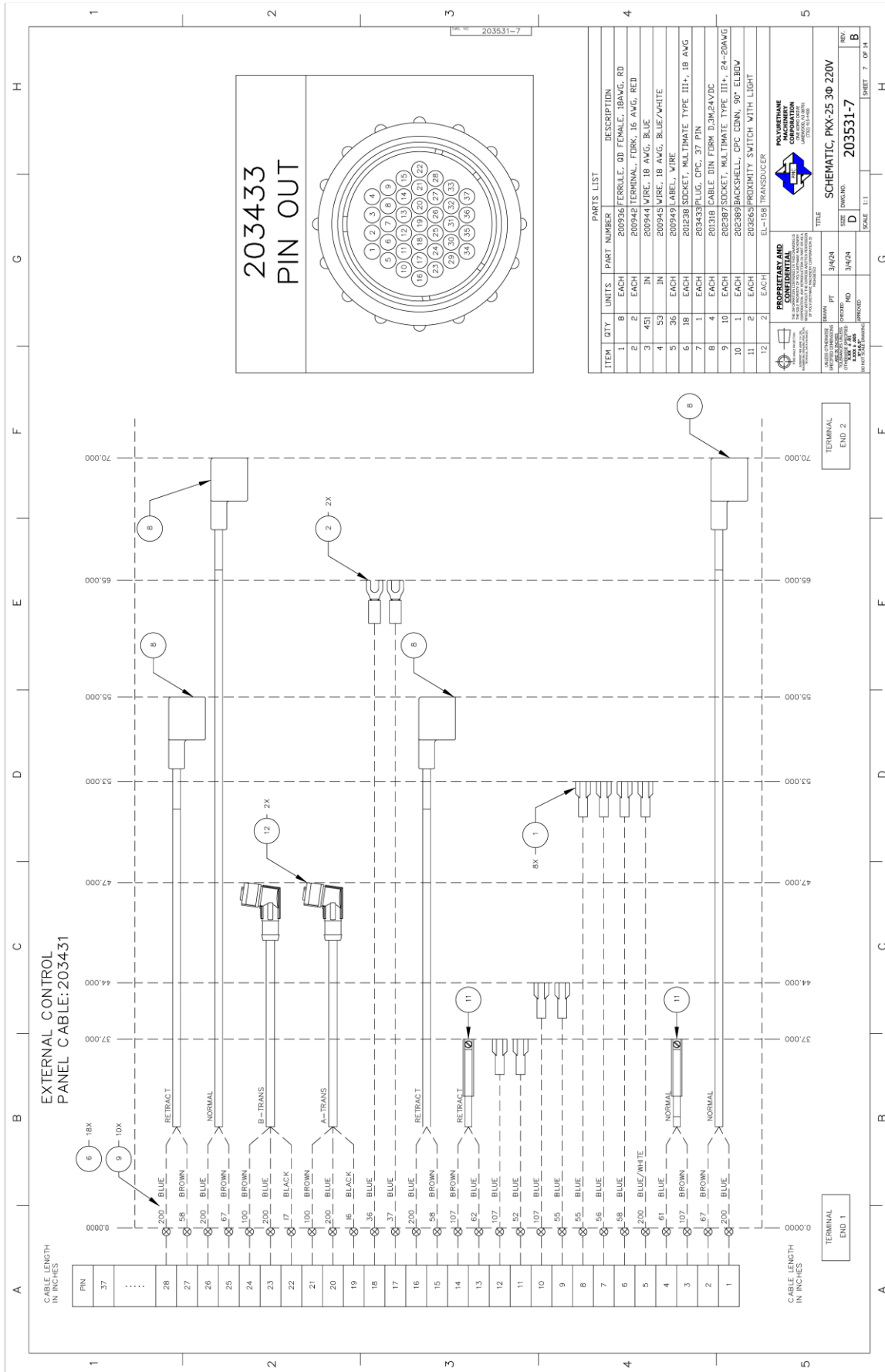


Figure 32: PKX-25 3Ø SCHEMATIC PG6

COMPONENT LIST

Location: MAIN		
DEVICE NAME	QTY	DESCRIPTION
M1	1	CONTACTOR 40A, ND, 3PST, 40A
L1	3	TERMINAL BLOCK, 16MM, 125A
L2	1	125A
GNP-1	1	GROUND TERMINAL BLOCK, 16MM, 125A
L73	1	125A
DISC KIT	1	DISC MOUNTING KIT
DISC1	1	DISC MOUNTING KIT
GNP BAR	1	GROUND BAR, 3 TERMINALS

Location: A-HEATER CIRCUIT		
DEVICE NAME	QTY	DESCRIPTION
CB1	1	CIRCUIT BREAKER, 2P 32A, UL489
SSR1	1	SSR, 50A 600VAC
TR-A-HTR	1	CONN. HEATER, 14.5MM, 14-6 AVG 65A
FIRE RCD	3	HEATER ASSY 3.25 IAW 1 SIDE 5.25IAW

Location: B-HEATER CIRCUIT		
DEVICE NAME	QTY	DESCRIPTION
CB2	1	CIRCUIT BREAKER, 2P 32A, UL489
SSR2	1	SSR, 50A 600VAC
TR-B-HTR	1	CONN. HEATER, 14.5MM, 14-6 AVG 65A
FIRE RCD	3	HEATER ASSY 3.25 IAW 1 SIDE 5.25IAW

CABLES		
DEVICE NAME	QTY	DESCRIPTION
SIGNAL PWR HARNESS(INT)	1	INTERNAL CONTROL PANEL CABLE, 37 PIN
SIGNAL PWR HARNESS(EXT)	1	EXTERNAL CONTROL PANEL CABLE, 37 PIN
TC-HOSE	1	THERMOCOUPLE HARNESS
A-HTR CABLE	1	WIRE, A-HEATER THERMOCOUPLE, 39"
B-HTR CABLE	1	WIRE, HOSE THERMOCOUPLE, 39"
HOSE CABLE	1	WIRE, B-HEATER THERMOCOUPLE, 48"
BLUE 18 AWG	971 ft	BLUE WIRE 18 AWG
BLUE/WHITE 18 AWG	225 ft	BLUE/WHITE WIRE 18 AWG
BLACK 18 AWG	362 ft	BLACK WIRE 18 AWG
BLACK 10 AWG	614 ft	BLACK WIRE 10 AWG
GREEN 18 AWG	49 ft	GREEN WIRE 18 AWG
GREEN 10 AWG	131 ft	GREEN WIRE 10 AWG

Location: XFMR CIRCUIT		
DEVICE NAME	QTY	DESCRIPTION
XFMR	1	70V 2A/VA
CB5	1	CIRCUIT BREAKER, 1P 63A UL489
CB6	1	CIRCUIT BREAKER, 2P 32A, UL489
ICL TB	1	TERM BLOCK ICL
ICL	1	INST CURRENT LIMITER 25A
SSR3	1	100A 600VAC
CT COIL	1	TRANSFORMER SIGNAL CT COIL 100A
XFMR VOLTAGE	1	RED 180VAC
XFMR CURRENT	1	WHITE 240VAC

Location: IO CIRCUIT		
DEVICE NAME	QTY	DESCRIPTION
NORMAL(Y) RELAY(TYP)	2	FLOW VALVE 24VDC
DVERTEMP	1	EL-00064 THERMAL LIMIT SWITCH
RI	1	EL-154/EL-155 DPDT LATCHING RELAY 24V
PROG RELAY	1	EL-194 PROGRAMMABLE RELAY 24V
A-TRANS B-TRANS	2	EL-195 TRANSDUCER 5000PSI
SV ROT	1	EL-196 7 PDS ROTARY SWITCH
ICR	1	EL-198 RELAY 24V SPDT
A-PRESS B-PRESS	2	EL-52-2000 PRESSURE SWITCH 2000
TC-B	2	HI-05021 THERMOCOUPLE TYPE E
LIFETIME COUNTER	1	200495 PULSE COUNTER, NDN RESETTABLE
CTRL-A CTRL-B	2	201154 24V HEATER CONTROLLER NDN
CTRL-HOSE	1	201155 HOSE CONTROLLER NDN
SW1-2 SW2-2 SW3-2 SW4-2	2	201215 RED 24VAC/DC
CC1	1	201216 WHITE 24VAC/DC
SW1-(L3) SW2-(L3) SW3-(L3) SW4-(L3)	8	201217 CYCLE COUNTER
LAMP HOLDER	4	201221 CONTACT BLOCK NO
SWITCH RED	3	201222 LAMP HOLDER, PUSH IN MANUAL
MNT COLLAR	4	201224 28MM MOUNTING COLLAR
L11	2	201225 28MM MOUNTING COLLAR MANUAL
PUMP	1	201251 PERISTALTIC PUMP
L75	1	201301 GREEN 24VDC PNL MOUNT
L74	1	201302 RED 24VDC PNL MOUNT
NORMAL(0) RETRACT(0)	2	203265 PROX SENSOR 24VDC

Location: DC POWERED CIRCUIT			
DEVICE NAME	QTY	PMC PART NUMBER	DESCRIPTION
CB4	1	EL-114	CIRCUIT BREAKER, 2P, 3A, UL489
PWS1	1	EL-122	24VDC/25A
END STOP	4	EL-152	END STOP, 35MM
MCR	1	EL-174	DPDT RELAY, 24V/DC, 6A
GNP	2	201845	GROUND TERMINAL BLOCK
SW 37 SW 7 SW 8 SW 9 SW 10 SW 11 SW 12 SW 13 SW 14 SW 15 SW 16 SW 17	11	201846	TERMINAL BLOCK 3 TIER
E-STOP	1	201215	RED 24VAC/DC
E-STOP SWITCH	1	201218	E-STOP PUSH-TWIST
E-STOP CONTACT BLOCK	1	201219	E-STOP CONTACT BLOCK
SW3-1	1	201220	CONTACT BLOCK NO
SW3-2	1	201221	CONTACT BLOCK NO
LAMP HOLDER	1	201222	LAMP HOLDER PUSH IN
MNT COLLAR	1	201224	28MM MOUNTING COLLAR
SWITCH	1	201226	28MM SWITCH, 3 PDS RED, RST L/R
JUMPER 4 PDS	3	201263	RED JUMPER 2 POSITION
JUMPER 4 PDS	1	201264	RED JUMPER 4 POSITION
JUMPER (ND)	1	202854	BRIDGE, PLUG IN, 5.2 MM
END COVER	1	203056	END COVER, PUSH IN, 5.2 MM
COVER 2	1	203257	END COVER, 2 TIER TB, PTC
COVER 3	1	203258	END COVER 3 TIER TB, PTC
JUMPER ADJ	6	203395	JUMPER, ADJUSTABLE POSITION
JUMPER SS	2	203397	JUMPER, SS RELAY, 2 PDS


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 203531-9

SCHEMATIC, PKX-25 3Ø 220V
 SCALE: 1:1
 SHEET 9 OF 14

Figure 33: PKX-25 3Ø SCHEMATIC PG7

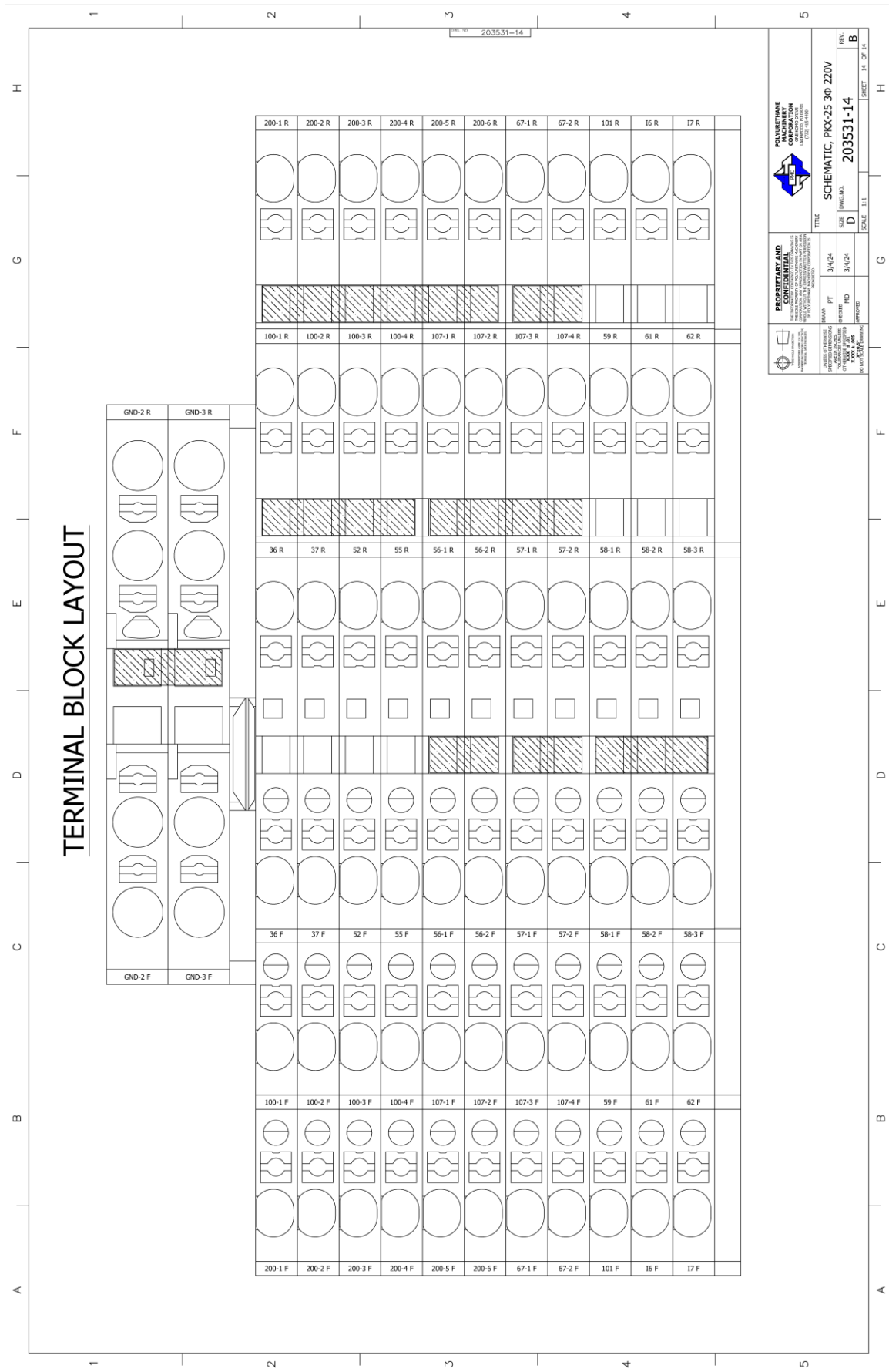


Figure 34: PKX-25 3Ø SCHEMATIC PG8

7 PK-25 CONSOLE

7.1 PK-25 Front Cover

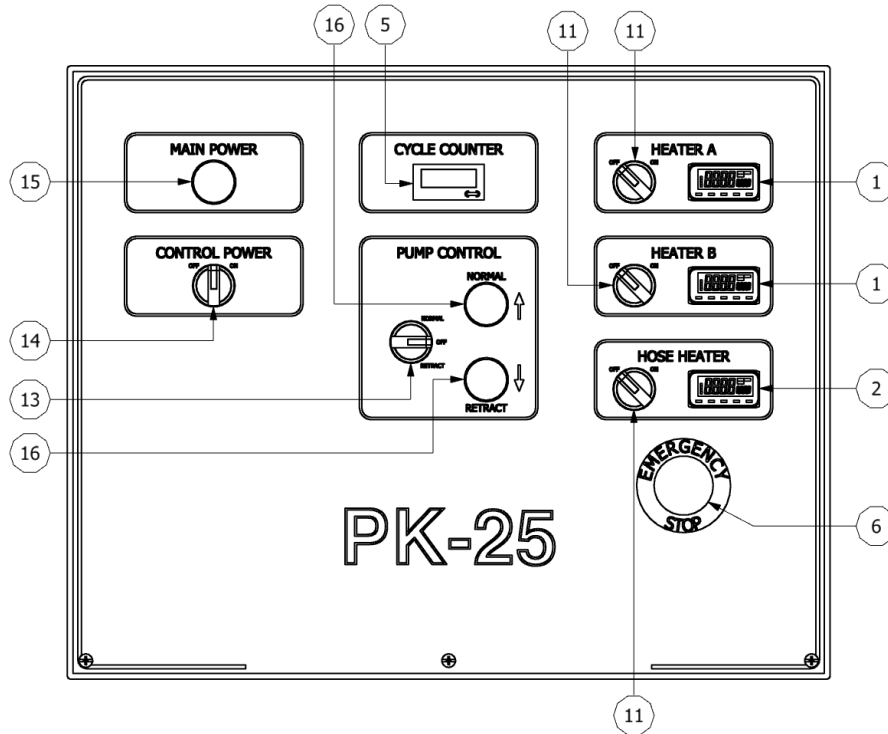


Figure 35: PK-25 Front Cover (Exterior)

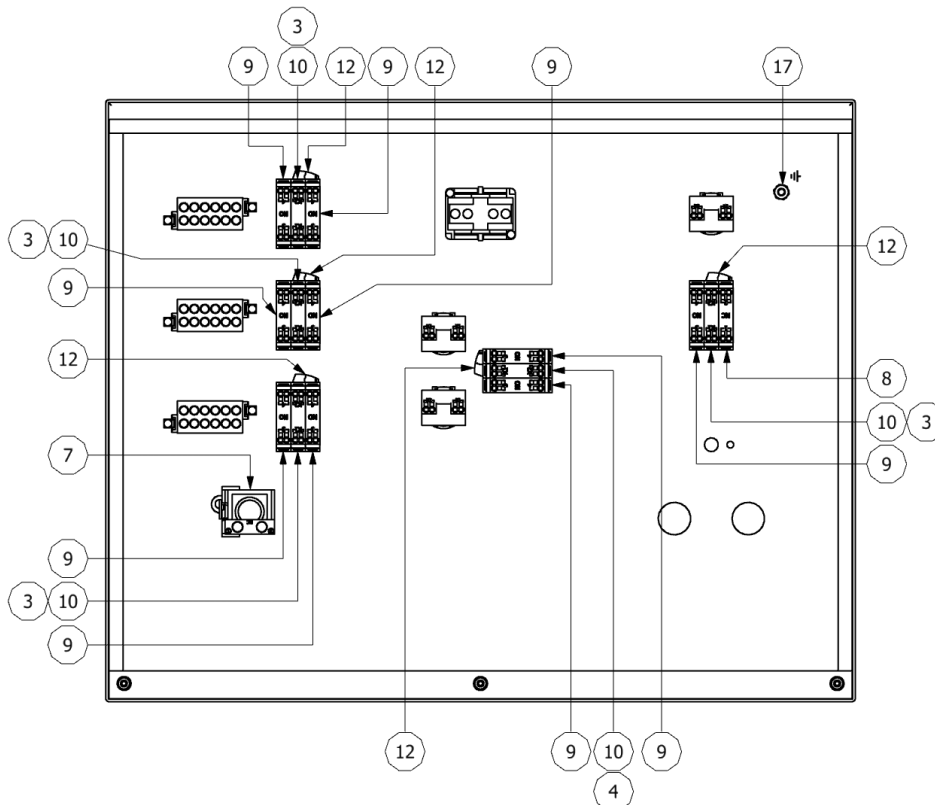


Figure 36: PK-25 Front Cover (Interior)

PK-25 Front Cover			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	201154	TEMP, CONT, HTR	2
2	201155	TEMP, CONT, HOSE	1
3	201215	LAMP, LED RED, 24VAC/DC	4
4	201216	LAMP, LED WHITE, 24VAC/DC	1
5	201217	CYCLE COUNTER	1
6	201218	E-STOP PUSH-TWIST	1
7	201219	CONTACT BLOCK, NON-LIGHTED SPST, NC	1
8	201220	CONTACT BLOCK, NC, PUSH IN	1
9	201221	CONTACT BLOCK, NO, PUSH IN	9
10	201222	LAMP HOLDER, PUSH-IN	5
11	201223	22mm SWITCH, 2 POS RED, MANUAL	3
12	201224	MOUNTING COLLAR, 22mm	5
13	201225	22mm SWITCH,3 POS WHITE, MANUAL	1
14	201226	22mm SWITCH,3 POS RED, RST L/R	1
15	201228	LIGHT UNIT, GREEN, 240VAC	1
16	201229	LIGHT UNIT, ORANGE, 24VDC	2
17	203129	NUT, K-LOCK, #10-32, ZP	1

7.2 PK-25 1 Ø Bottom Plate

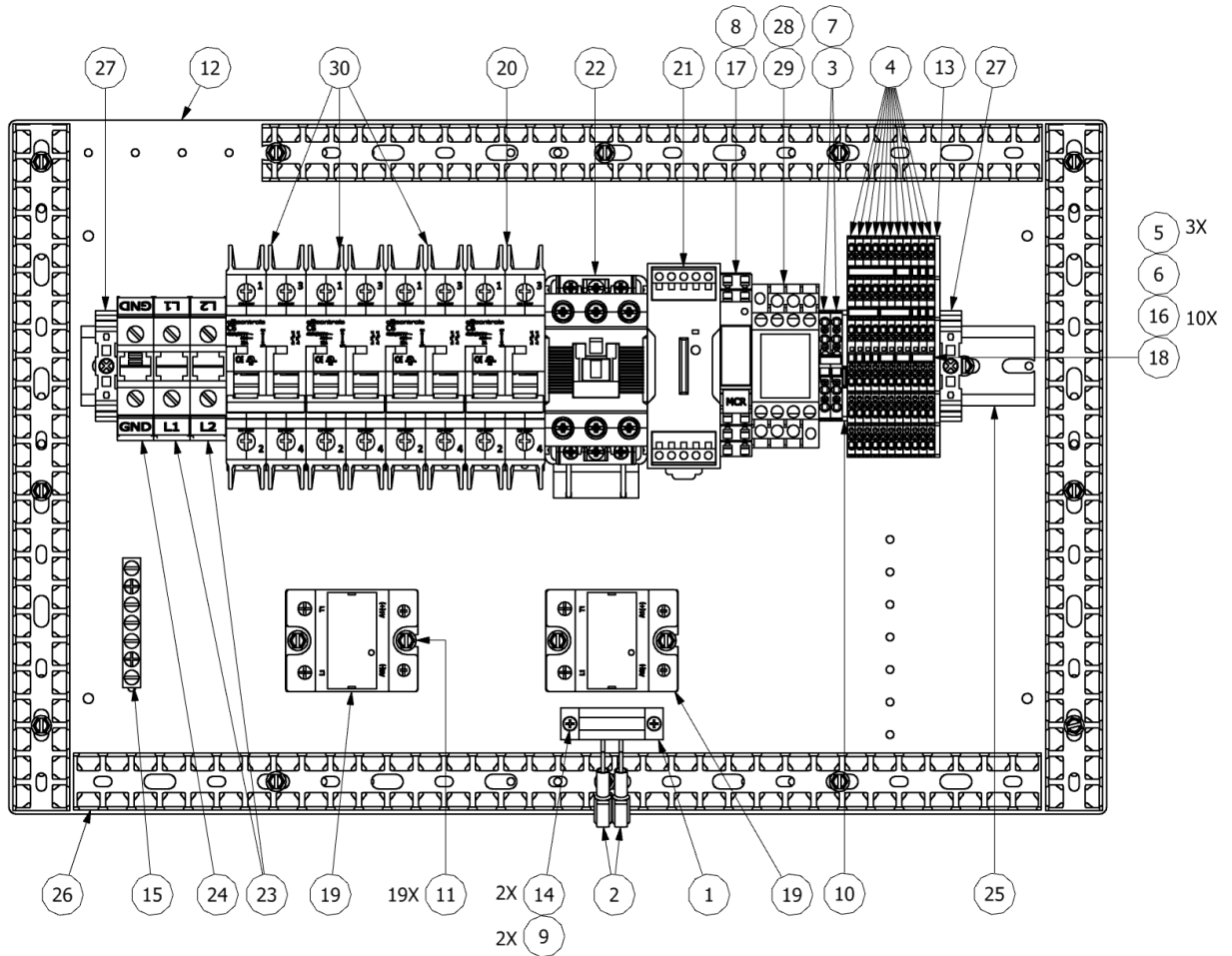


Figure 37: PK-25 1Ø Bottom Plate

PK-25 1 Ø BOTTOM PLATE			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	200495	COUNTER, NON-RESETTABLE	1
2	201030	FERRULE, QD MALE, 18AWG, RD	2
3	201045	TERM BLOCK GROUND PUSH TO CONN	2
4	201046	TERM BLOCK 3 TIER PUSH TO CONN	11
5	201263	JUMPER, 2 POSITION, 3.5mm	3
6	201264	JUMPER, 4 POSITION, 3.5mm	1
7	202854	BRIDGE, PLUG-IN, 2 POS, 5.2mm	1
8	202856	BRIDGE, PLUG-IN, CONTINUOUS	1 in
9	202866	WASHER, FLAT, SAE, #5, ZP	2
10	203056	END COVER, PUSH-IN, 5.2mm	1
11	203098	HHCS, ST, #8-32 x 0.375, ZP	19
12	203247	BOTTOM PLATE, PK(X)-25	1
13	203258	END COVER, 3-TIER TB, PTC	1
14	203259	PHCS, #5-40 x 0.375, ST, 18-8 SS	2
15	203260	GROUND BAR, 5 TERMINAL	1
16	203395	JUMPER, ADJ. POSITION, 3.5mm	10
17	203396	SS RELAY, 24VDC PUSHIN	1
18	203561	JUMPER, 3 POSITION, 3.5mm	1
19	EL-34	RELAY, 50 AMP, 480V	2
20	EL-114	CIRCUIT BREAKER, 3A, 2 POLE	1
21	EL-122	POWER SUPPLY, 2.5A, 230VAC/24VDC	1
22	EL-125-CARLOS	CONTACTOR, 40A, 24V, W/ SURGE	1
23	EL-143	TERMINAL BLOCK, 16 mm	2
24	EL-146	TERMINAL BLOCK, 16mm, GRND	1
25	EL-147	DIN RAIL, 35mm x 7.5mm	16.5 in
26	EL-149	WIRE DUCT, 25mm x 60mm	54 in
27	EL-152	END STOP, 35mm	2
28	EL-154	LATCHING RELAY 24V	1
29	EL-155	RELAY SOCKET	1
30	EL-188	CIRCUIT BREAKER, 32A, 2 POLE	3

7.1 PK-25 3 Ø(Δ) Bottom Plate

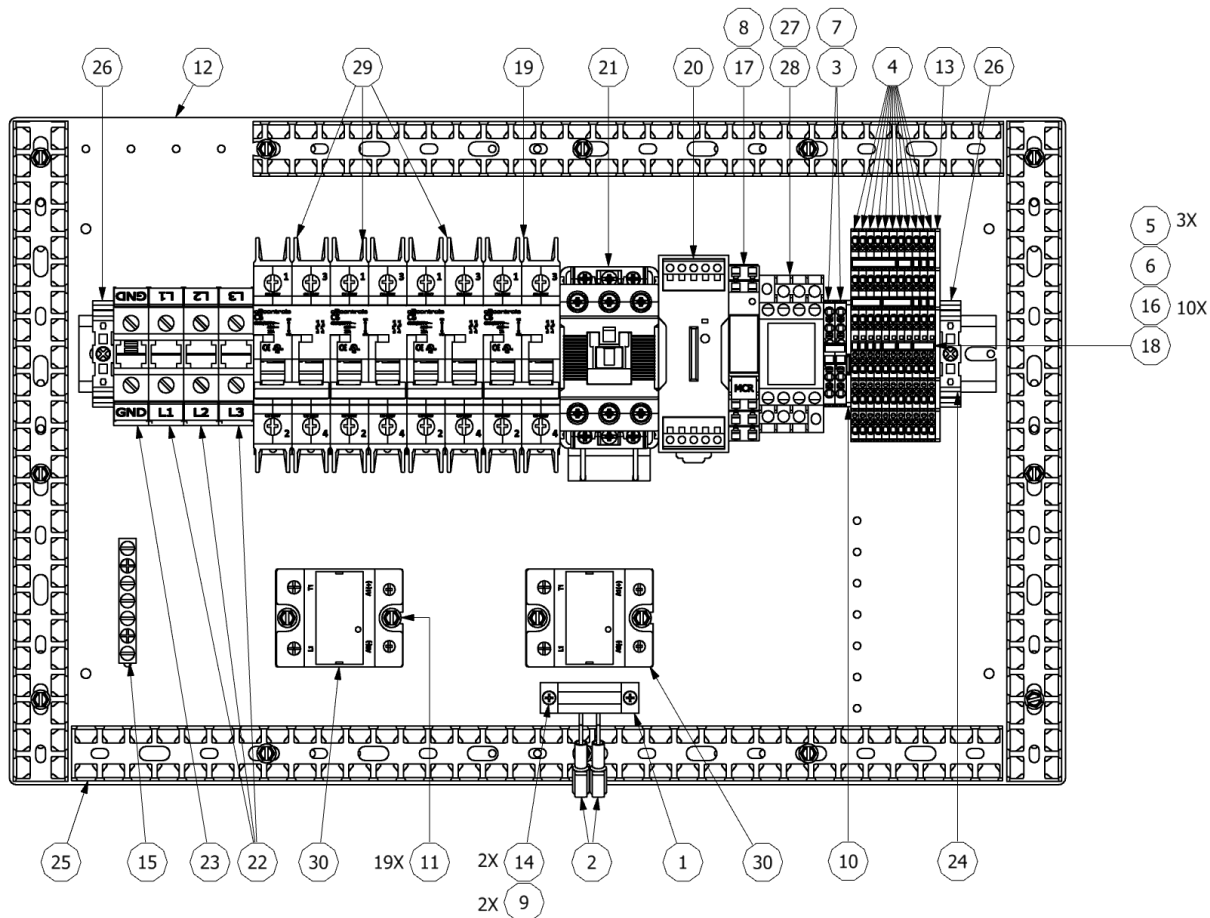


Figure 38: PK-25 3 Ø Bottom Plate

ITEM	PART NUMBER	DESCRIPTION	QTY
1	200495	COUNTER, NON-RESETTABLE	1
2	201030	FERRULE, QD MALE, 18AWG, RD	2
3	201045	TERM BLOCK GROUND PUSH TO CONN	2
4	201046	TERM BLOCK 3 TIER PUSH TO CONN	11
5	201263	JUMPER, 2 POSITION, 3.5mm	3
6	201264	JUMPER, 4 POSITION, 3.5mm	1
7	202854	BRIDGE, PLUG-IN, 2 POS, 5.2mm	1
8	202856	BRIDGE, PLUG-IN, CONTINUOUS	1 in
9	202866	WASHER, FLAT, SAE, #5, ZP	2
10	203056	END COVER, PUSH-IN, 5.2mm	1
11	203098	HHCS, ST, #8-32 x 0.375, ZP	19
12	203247	BOTTOM PLATE, PK(X)-25	1
13	203258	END COVER, 3-TIER TB, PTC	1
14	203259	PHCS, #5-40 x 0.375, ST, 18-8 SS	2
15	203260	GROUND BAR, 5 TERMINAL	1
16	203395	JUMPER, ADJ. POSITION, 3.5mm	10
17	203396	SS RELAY, 24VDC PUSHIN	1
18	203561	JUMPER, 3 POSITION, 3.5mm	1
19	EL-114	CIRCUIT BREAKER, 3A, 2 POLE	1
20	EL-122	POWER SUPPLY, 2.5A, 230VAC/24VDC	1
21	EL-125-CARLOS	CONTACTOR, 40A, 24V, W/ SURGE	1
22	EL-143	TERMINAL BLOCK, 16 mm	3
23	EL-146	TERMINAL BLOCK, 16mm, GRND	1
24	EL-147	DIN RAIL, 35mm x 7.5mm	16.5 in
25	EL-149	WIRE DUCT, 25mm x 60mm	54 in
26	EL-152	END STOP, 35mm	2
27	EL-154	LATCHING RELAY 24V	1
28	EL-155	RELAY SOCKET	1
29	EL-188	CIRCUIT BREAKER, 32A, 2 POLE	3
30	EL-34	RELAY, 50 AMP, 480V	2

8 PKX-25 CONSOLE

8.1 PKX-25 Front Cover

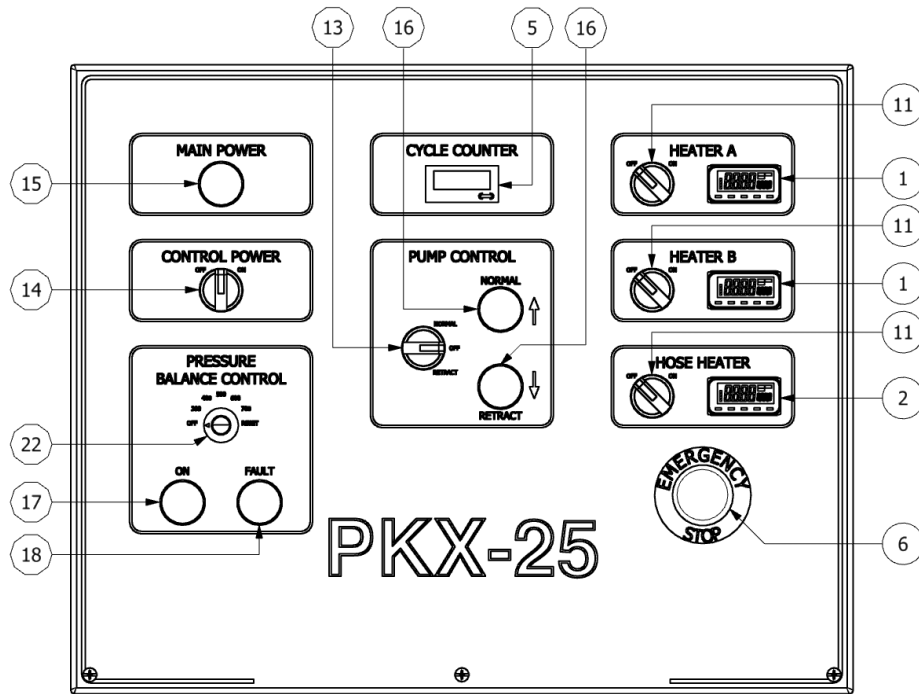


Figure 39: PKX-25 Front Cover (Exterior)

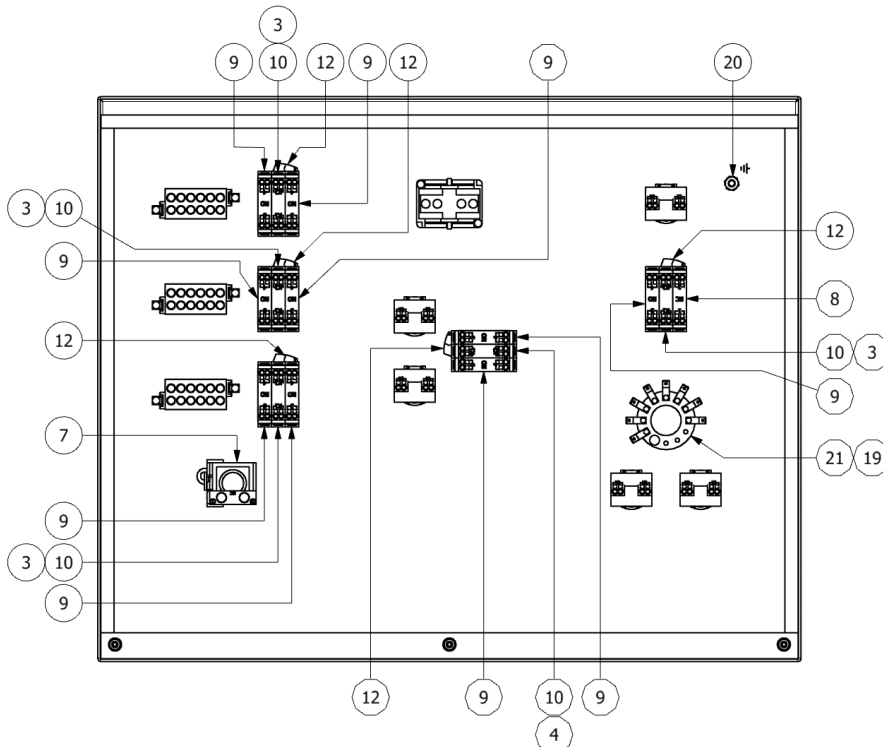


Figure 40: PKX-25 Front Cover (Interior)

PKX-25 FRONT COVER			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	201154	TEMP, CONT, HTR	2
2	201155	TEMP, CONT, HOSE	1
3	201215	LAMP, LED RED, 24VAC/DC	4
4	201216	LAMP, LED WHITE, 24VAC/DC	1
5	201217	CYCLE COUNTER	1
6	201218	E-STOP PUSH-TWIST	1
7	201219	CONTACT BLOCK, NON-LIGHTED SPST, NC	1
8	201220	CONTACT BLOCK, NC, PUSH IN	1
9	201221	CONTACT BLOCK, NO, PUSH IN	9
10	201222	LAMP HOLDER, PUSH-IN	5
11	201223	22mm SWITCH, 2 POS RED, MANUAL	3
12	201224	MOUNTING COLLAR, 22mm	5
13	201225	22mm SWITCH,3 POS WHITE,MANUAL	1
14	201226	22mm SWITCH,3 POS RED, RST L/R	1
15	201228	LIGHT UNIT, GREEN, 240VAC	1
16	201229	LIGHT UNIT, ORANGE, 24VDC	2
17	201301	LIGHT UNIT, GREEN, 24VDC, PUSH-IN	1
18	201302	LIGHT UNIT, RED, 24VDC	1
19	202811	NUT, HEX, PANEL, 3/8-32, NPB	1
20	203129	NUT, K-LOCK, #10-32, ZP	1
21	EL-196	SWITCH, ROTARY, 7 POS, 15A	1
22	EL-197	KNOB, 1/4 DIA. BLACK	1

8.2 PKX-25 1 Ø BOTTOM PLATE

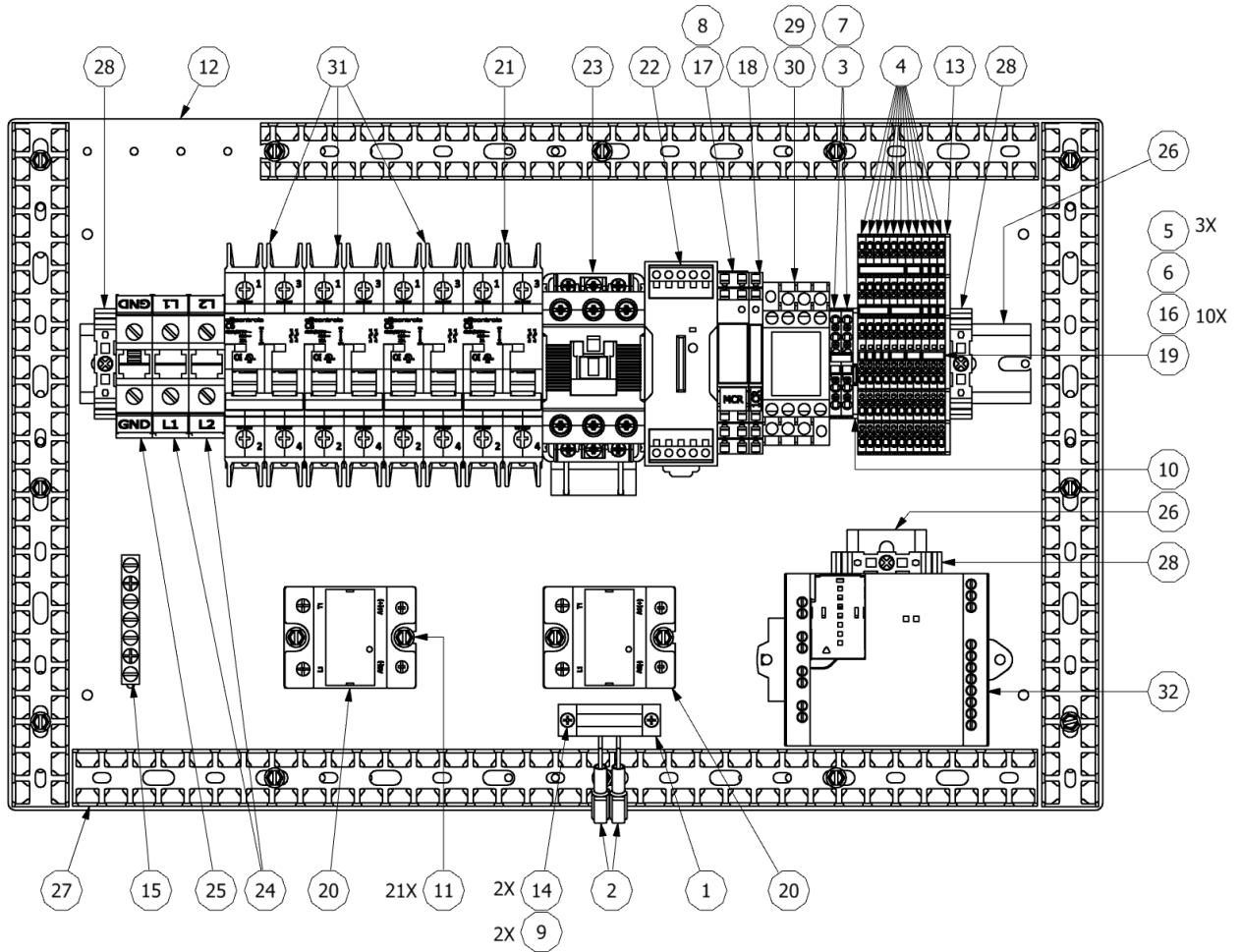


Figure 41: PKX-25 1 Ø BOTTOM PLATE

PKX-25 1 Ø BOTTOM PLATE			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	200495	COUNTER, NON-RESETTABLE	1
2	201030	FERRULE, QD MALE, 18AWG, RD	2
3	201045	TERM BLOCK GROUND PUSH TO CONN	2
4	201046	TERM BLOCK 3 TIER PUSH TO CONN	11
5	201263	JUMPER, 2 POSITION, 3.5mm	3
6	201264	JUMPER, 4 POSITION, 3.5mm	1
7	202854	BRIDGE, PLUG-IN, 2 POS, 5.2mm	1
8	202856	BRIDGE, PLUG-IN, CONTINUOUS	1.25 in
9	202866	WASHER, FLAT, SAE, #5, ZP	2
10	203056	END COVER, PUSH-IN, 5.2mm	1
11	203098	HHCS, ST, #8-32 x 0.375, ZP	21
12	203247	BOTTOM PLATE, PK(X)-25	1
13	203258	END COVER, 3-TIER TB, PTC	1
14	203259	PHCS, #5-40 x 0.375, ST, 18-8 SS	2
15	203260	GROUND BAR, 5 TERMINAL	1
16	203395	JUMPER, ADJ. POSITION, 3.5mm	10
17	203396	SS RELAY, 24VDC PUSHIN	1
18	203424	RELAY, SPDT, 24VDC, PUSH-IN	1
19	203561	JUMPER, 3 POSITION, 3.5mm	1
20	EL-34	RELAY, 50 AMP, 480V	2
21	EL-114	CIRCUIT BREAKER, 3A, 2 POLE	1
22	EL-122	POWER SUPPLY, 2.5A, 230VAC/24VDC	1
23	EL-125-CARLOS	CONTACTOR, 40A, 24V, W/ SURGE	1
24	EL-143	TERMINAL BLOCK, 16 mm	2
25	EL-146	TERMINAL BLOCK, 16mm, GRND	1
26	EL-147	DIN RAIL, 35mm x 7.5mm	20 in
27	EL-149	WIRE DUCT, 25mm x 60mm	54 in
28	EL-152	END STOP, 35mm	3
29	EL-154	LATCHING RELAY 24V	1
30	EL-155	RELAY SOCKET	1
31	EL-188	CIRCUIT BREAKER, 32A, 2 POLE	3
32	EL-194-1	PROGRAMMED, EZ CONTROL RELAY	1

8.3 PKX-25 3 Ø(Δ) BOTTOM PLATE

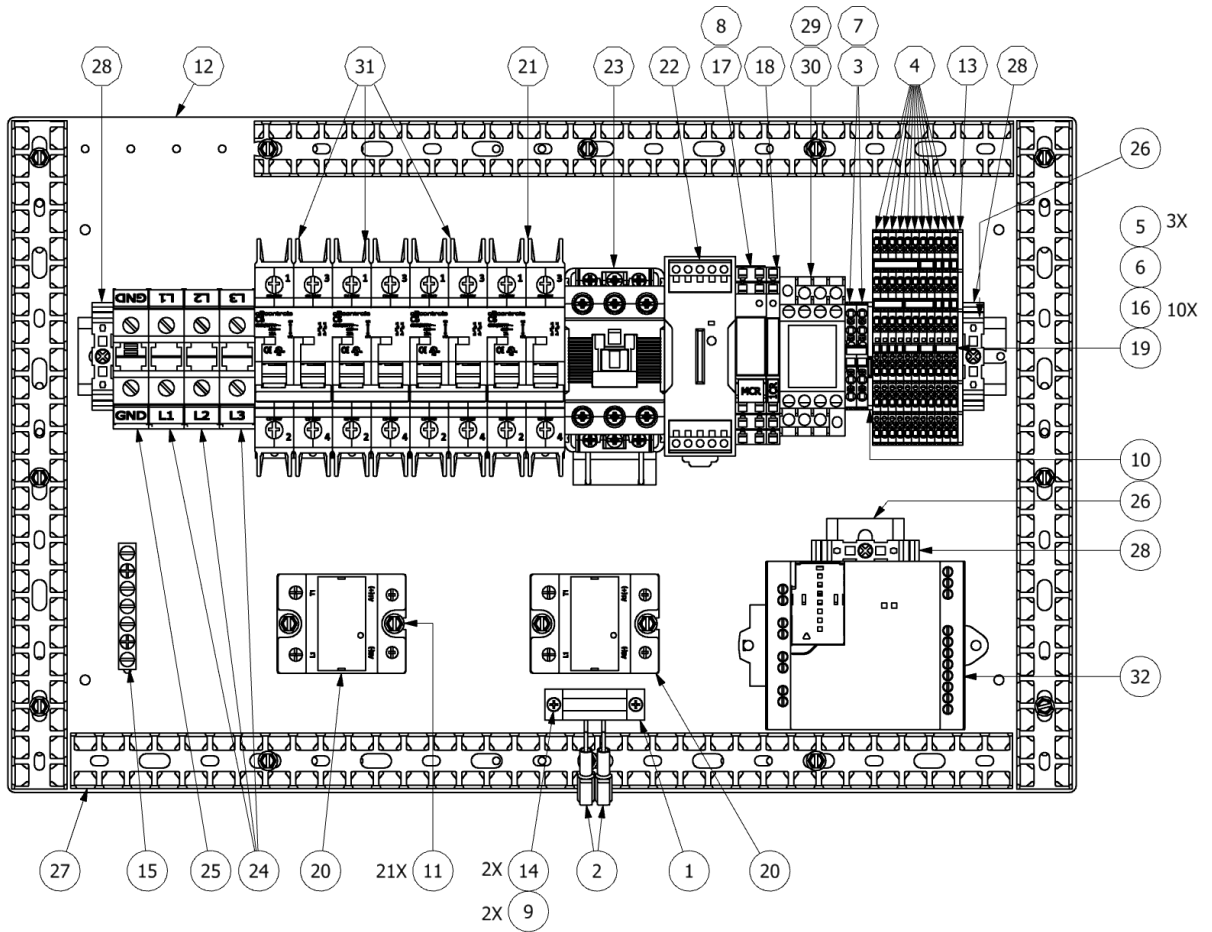


Figure 42: PKX-25 3 Ø BOTTOM PLATE

PKX-25 3 Ø BOTTOM PLATE			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	200495	COUNTER, NON-RESETTABLE	1
2	201030	FERRULE, QD MALE, 18AWG, RD	2
3	201045	TERM BLOCK GROUND PUSH TO CONN	2
4	201046	TERM BLOCK 3 TIER PUSH TO CONN	11
5	201263	JUMPER, 2 POSITION, 3.5mm	3
6	201264	JUMPER, 4 POSITION, 3.5mm	1
7	202854	BRIDGE, PLUG-IN, 2 POS, 5.2mm	1
8	202856	BRIDGE, PLUG-IN, CONTINUOUS	1.25 in
9	202866	WASHER, FLAT, SAE, #5, ZP	2
10	203056	END COVER, PUSH-IN, 5.2mm	1
11	203098	HHCS, ST, #8-32 x 0.375, ZP	21
12	203247	BOTTOM PLATE, PK(X)-25	1
13	203258	END COVER, 3-TIER TB, PTC	1
14	203259	PHCS, #5-40 x 0.375, ST, 18-8 SS	2
15	203260	GROUND BAR, 5 TERMINAL	1
16	203395	JUMPER, ADJ. POSITION, 3.5mm	10
17	203396	SS RELAY, 24VDC PUSHIN	1
18	203424	RELAY, SPDT, 24VDC, PUSH-IN	1
19	203561	JUMPER, 3 POSITION, 3.5mm	1
20	EL-34	RELAY, 50 AMP, 480V	2
21	EL-114	CIRCUIT BREAKER, 3A, 2 POLE	1
22	EL-122	POWER SUPPLY, 2.5A, 230VAC/24VDC	1
23	EL-125-CARLOS	CONTACTOR, 40A, 24V, W/ SURGE	1
24	EL-143	TERMINAL BLOCK, 16 mm	3
25	EL-146	TERMINAL BLOCK, 16mm, GRND	1
26	EL-147	DIN RAIL, 35mm x 7.5mm	20.25 in
27	EL-149	WIRE DUCT, 25mm x 60mm	54 in
28	EL-152	END STOP, 35mm	3
29	EL-154	LATCHING RELAY 24V	1
30	EL-155	RELAY SOCKET	1
31	EL-188	CIRCUIT BREAKER, 32A, 2 POLE	3
32	EL-194-1	PROGRAMMED, EZ CONTROL RELAY	1