



Newburg, Missouri, USA
 573-368-7399
 machmotion.com

SALES ORDER No.: xxxxx

DRAWING No.: S30006

SUPPLY VOLTAGE: 480 VOLTS 60 Hz

PHASE:	-	3 PH (480V)
FULL LOAD AMPS:	-	76.3 AMPS
LARGEST LOAD:	-	12.6 AMPS
MAX SPINDLE MOTOR SIZE:	-	6 KW
MIN SUPPLY CIRCUIT CONDUCTOR:	-	125 AMPS
MAX SUPPLY CIRCUIT OCPD:	-	150 AMPS

SHORT CIRCUIT CURRENT RATING: 5 kA @ 480 VOLTS MAX

AMBIENT TEMPERATURE RATING: 41° TO 104° F (5° TO 40° C)

THIS EQUIPMENT DOES PROVIDE SUPPLY CIRCUIT OVERCURRENT PROTECTION.

NUMBER OF PAGES 87

COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		DRAWING NO:		TITLE PAGE / COVER SHEET		PREV PAGE: <<---	
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CHANGE HISTORY

NR.	DATE (MM/DD/YYYY)	EDITOR	CHANGE SPECIFICATION	ID	PAGES
000	06/05/2024	PREM C	INITIAL RELEASE		ALL
001	06/20/2024	PREM C	ENGINEERING UPDATE - OLR ADDED		62, 64, 96
002	06/29/2024	PREM C	UPDATE - AS BUILT		ALL
003	12/02/2024	PREM C	UPDATE - AS INSTALL		ALL
004					
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010					
011					
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016					
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DESCRIPTION	NEMA SYMBOLS	IEC SYMBOLS	LETTER CODE TO IEC 617
NORMALLY OPEN CONTACTOR CONTACT	M	KM	KM - CONTACTOR
NORMALLY CLOSED CONTACTOR CONTACT	M	KM	KM - CONTACTOR
NORMALLY CLOSED AUXILIARY CONTACT	M	KM	KM - CONTACTOR
NORMALLY OPEN RELAY CONTACT	CR	KA	KA - RELAY
NORMALLY CLOSED RELAY CONTACT	CR	KA	KA - RELAY
NORMALLY OPEN DELAYED CLOSING CONTACT	T	KT	KT - TIME DELAY
NORMALLY CLOSED DELAYED OPENING CONTACT	T	KT	KT - TIME DELAY
NORMALLY OPEN DELAYED OPENING CONTACT	T	KT	KT - TIME DELAY
NORMALLY CLOSED DELAYED CLOSING CONTACT	T	KT	KT - TIME DELAY
NORMALLY OPEN PUSH BUTTON	PB	SB	SB - PUSH BUTTON
NORMALLY CLOSED PUSH BUTTON	PB	SB	SB - PUSH BUTTON
EMERGENCY STOP PUSH BUTTON	PB	SB	SB - PUSH BUTTON
NORMALLY OPEN LEVEL SWITCH	LVS	SL	SL - LEVEL SWITCH
NORMALLY OPEN PRESSURE SWITCH	PS	SP	SP - PRESSURE SWITCH
NORMALLY OPEN FLOW SWITCH	FS	SF	SF - FLOW SWITCH
NORMALLY OPEN TEMPERATURE SWITCH	TS	ST	ST - TEMPERATURE SWITCH
NORMALLY OPEN LIMIT SWITCH	LS	SQ	SQ - LIMIT SWITCH
NORMALLY CLOSED LIMIT SWITCH	LS	SQ	SQ - LIMIT SWITCH
PLUG	PLG	XP	XP - PLUG
SOCKET	PLG	XS	XS - SOCKET
PLUG AND SOCKET	PLG	XS	XS - PLUG AND SOCKET
CONTACTOR COIL	M	KM	KM - CONTACTOR
CONTROL RELAY COIL	CR	KA	KA - RELAY
SLOW OPERATING (ON DELAY) RELAY COIL	TR	KT	KT - TIMED RELAY
SLOW RELEASING (OFF DELAY) RELAY COIL	TR	KT	KT - TIMED RELAY
SOLENOID COIL	SOL	YV	YV - ELECTROMAGNETIC OPERATED VALVE
PROXIMITY SENSOR	PRX	SQ	SQ - PROXIMITY SWITCH

DESCRIPTION	NEMA SYMBOLS	IEC SYMBOLS	LETTER CODE TO IEC 617
PROXIMITY SENSOR	PRX	SQ	SQ - PHOTOEYE SWITCH
ISOLATOR/DISCONNECT SWITCH	KS	QS	QS - ISOLATOR/DISCONNECT DEVICE
FUSE	FU	FU	FU - FUSE
CIRCUIT BREAKER	CB	QF	QF - CIRCUIT BREAKER
WARNING HORN	HN	HA	HA - WARNING HORN
INDICATOR LAMP (PILOT LIGHT)	LT	HL	HL - INDICATOR LAMP
PUSH TO TEST INDICATOR LAMP (PILOT LIGHT)	LT	HL	HL - INDICATOR LAMP
FLUORESCENT LIGHT	LT	EL	EL - CABINET LIGHTING
SELECTOR SWITCH	SS	SA	SA - SELECTOR SWITCH
4 POSITION SELECTOR SWITCH	SS	SA	SA - SELECTOR SWITCH
MOTOR	MTR	M	M - MOTOR
ELECTROMAGNETIC BRAKE	BRK	YB	YB - ELECTROMAGNETIC BRAKE

BQ - POSITION TRANSDUCER
 E - MISCELLANEOUS COMPONENTS
 EH - HEATING DEVICE
 FR - CURRENT PROTECTIVE DEVICE
 GS - SUPPLY DEVICE (POWER SUPPLY)
 HV - VENTILATOR
 XB - LINK
 XT - FUSED TERMINAL
 X1 - TERMINAL
 TA - CURRENT TRANSFORMER
 TC - CONTROL CIRCUIT TRANSFORMER
 TM - POWER TRANSFORMER
 TS - MAGNETIC STABILISER
 TV - VOLTAVE TRANSFORMER

WIRE COLOR CHART						
VOLTAGE	LINE SIDE OF MAIN DISCONNECT (ABOVE DISCONNECTING MEANS)		LOAD SIDE OF MAIN DISCONNECT (BELOW DISCONNECTING MEANS)		WIRES TO EXTERNAL ELECTRICAL ENCLOSURES (INTERLOCKING)	
	HOT CONDUCTOR	GROUNDING CURRENT CARRYING CONDUCTOR	HOT CONDUCTOR	GROUNDING CURRENT CARRYING CONDUCTOR	HOT CONDUCTOR	GROUNDING CURRENT CARRYING CONDUCTOR
241 - 575 VAC	BLACK / ORANGE TRACER/SLEEVE/TUBE		BLACK			
151 - 575 VDC			BLACK			
151 - 240 VAC			RED	WHITE		
0 - 150 VAC	ORANGE	WHITE/ ORANGE TRACER/SLEEVE/TUBE	RED	WHITE		
24 VDC (0 - 50)	BLUE / ORANGE TRACER/SLEEVE/TUBE	WHITE WITH BLUE TRACER & ORANGE TAPE	BLUE	WHITE/BLUE TRACER/SLEEVE/TUBE	ORANGE	ORANGE
GROUND	GREEN/ YELLOW TRACER					

WIRE COLOR CODE CHART	
WIRE COLOR	ABBREVIATION
BLACK	BK
BROWN	BN
RED	RD
ORANGE	OG
YELLOW	YE
GREEN	GN
BLUE	BU
VIOLET	VT
GRAY	GY
WHITE	WH
PINK	PK
GOLD	GD
TURQUOISE	TQ
SILVER	SR
GREEN WITH YELLOW TRACER	GNYE
BLACK WITH ORANGE TRACER	BKOG
BLUE WITH ORANGE TRACER	BUOG
WHITE WITH RED TRACER	WHRD
WHITE WITH ORANGE TRACER	WHOG
WHITE WITH BLUE TRACER	WHBU
WHITE WITH BLUE TRACER AND ORANGE TAPE (OR SHRINK TUBE)	WHBU+OG

CABLE SIZE CONVERSION TABLE		
METRIC	TO	AWG
0.5		20
0.75		18
1.0		16
1.5		14
2.5		12
4.0		10
6.0		8
10.0		6
16.0		4
25.0		2
35.0		1
50.0		0

NFPA 79 - 2015 EDITION	
Table 8.2.2.3 Minimum Size of Equipment Grounding Conductors and Bonding Jumpers	
Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of the Equipment (Not Exceeding Amperes)	Copper Conductor Size (AWG or kcmil)
10	16
15	14
20	12
30	10
40	10
60	10
100	8
200	6
300	4
400	3
500	2
600	1
800	1/0
1000	2/0
1200	3/0
1600	4/0
2000	250
2500	350
3000	400
4000	500
5000	700
6000	800

NFPA 79 - 2015 EDITION			
Table 12.5.1 Conductor Ampacity Based on Copper Conductors with 60°C (140°F), 75°C (167°F), 90°C (194°F) Insulation in an Ambient Temperature of 30°C (86°F)			
Conductor Size (AWG)	Ampacity		
	60°C (140°F)	75°C (167°F)	90°C (194°F)
30	-	0.5	0.5
28	-	0.8	0.8
26	-	1	1
24	2	2	2
22	3	3	3
20	5	5	5
18	7	7	14
16	10	10	18
14	20	20	25
12	25	25	30
10	30	35	40
8	40	50	55
6	55	65	75
4	70	85	95
3	85	100	110
2	95	115	130
1	110	130	150
1/0	125	150	170
2/0	145	175	195
3/0	165	200	225
4/0	195	230	260
250	215	255	290
300	240	285	320
350	260	310	350
400	280	335	380
500	320	380	430
600	355	420	475
700	385	460	520
750	400	475	535
800	410	490	555
900	435	520	585
1000	455	545	615

NFPA 79 - 2015 EDITION			
Table 12.5.5(a) Ambient Correction Factors			
For ambient temperatures other than 30°C (86°F), multiply the allowable ampacity by the appropriate factor shown below.			
Ambient Temperature (°C)	Correction Factor 60°C	Correction Factor 75°C	Correction Factor 90°C
21-25	1.08	1.05	1.04
26-30	1.00	1.00	1.00
31-35	0.91	0.94	0.96
36-40	0.82	0.88	0.91
40-45	0.71	0.82	0.87
46-50	0.58	0.75	0.82
51-55	0.41	0.67	0.76
56-60	-	0.58	0.71
61-70	-	0.33	0.58
71-80	-	-	0.41

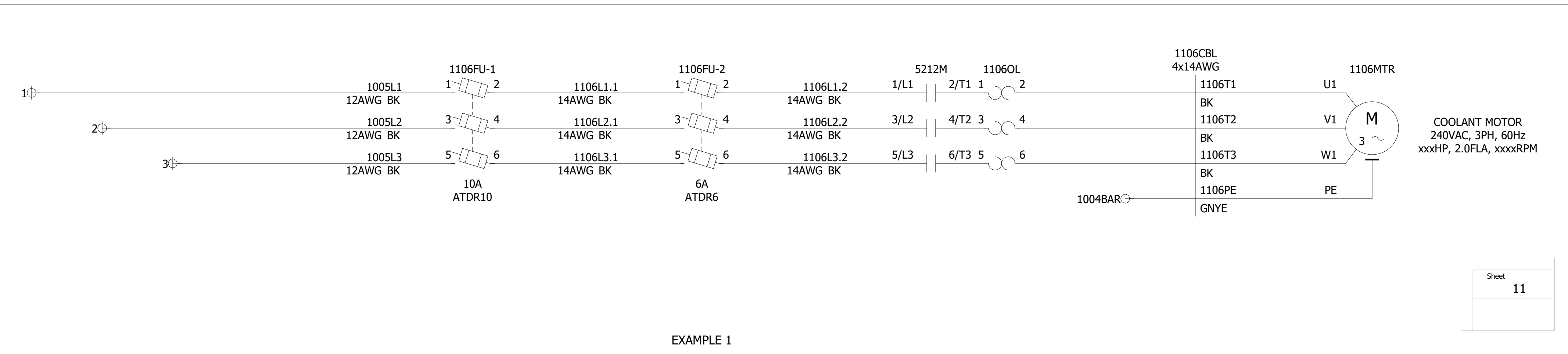
Notes:
(1) Wire types listed in 12.3.1 shall be permitted to be used at the ampacities listed in this table.
(2) The sources for the ampacities in this table are Table 310.15(B)(16) of NFPA 70.

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DESIGNER: PREM C	REVISION:	LOC:	FACTORY:	DEPT:	OP. NO:	STA. NO:	SUPPLIER NO: XXXXXX	WIRE INFORMATION	&	PREV PAGE: <<--- 05	
	APPROVER: -	-	-	-	-	-	MACH. NAME: ROUTER		#	NEXT PAGE: --->> 07	

EXAMPLE 1

IF DEVICES / WIRES ARE CONNECTED TO 3 PHASE LINES

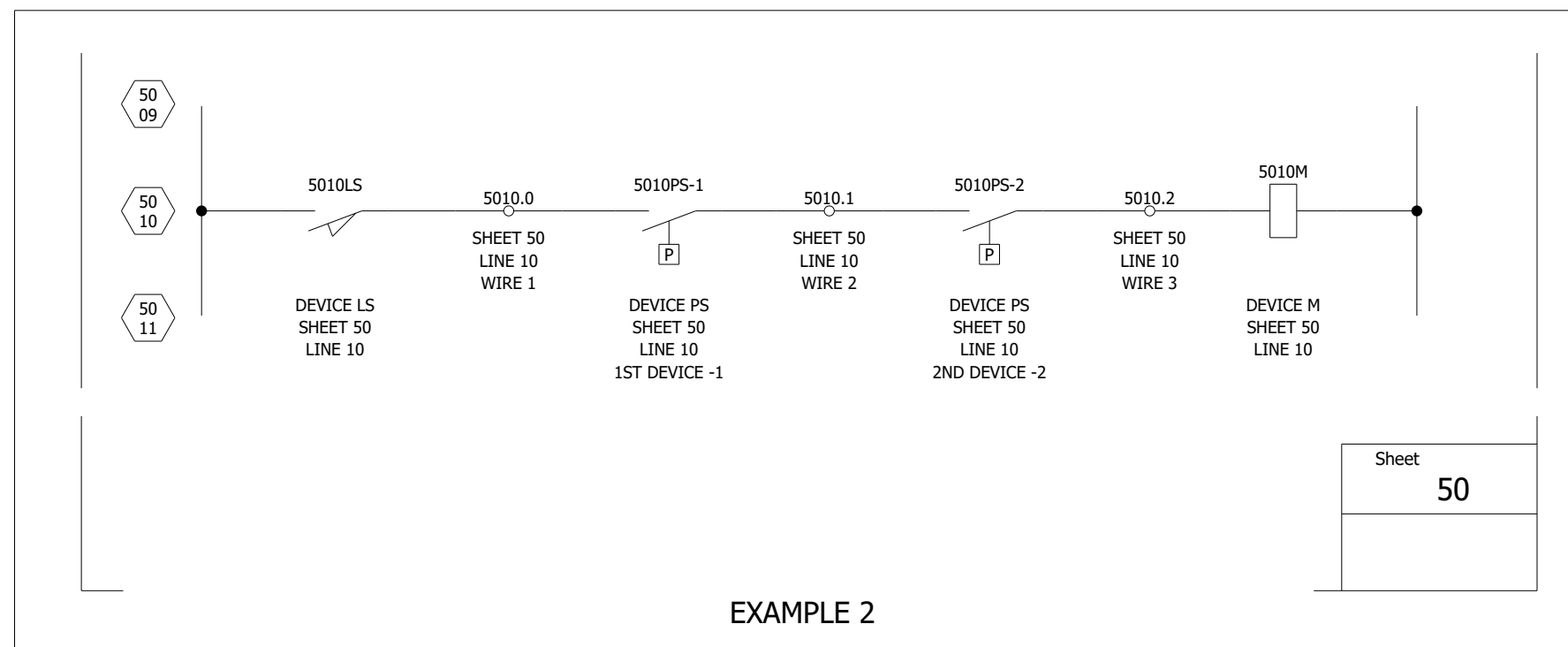
1. DEVICES ARE IDENTIFIED BY THE ALPHA SUFFIX ACCORDING TO NEMA/NFPA COMBINED WITH THE SHEET NUMBER AND LINE REFERENCE AT WHICH THE DEVICE IS POSITIONED.
2. IF TWO OR MORE DEVICES WITH THE SAME PREFIX EXIST ON THE SAME LINE REFERENCE, THEN DEVICES ARE SUFFIXED -1, -2, -3...
3. WIRE NUMBERS ARE CONSTRUCTED FROM THE SHEET AND LINE NUMBER ON WHICH THEY OCCUR, WITH THE THREE PHASE IDENTIFIER L1, L2, L3 (OR T1, T2, T3) DEPENDING ON TERMINATION TO END DEVICE.



EXAMPLE 2

IF DEVICES / WIRES ARE NOT CONNECTED TO A PLC INPUT OR OUTPUT THEN:

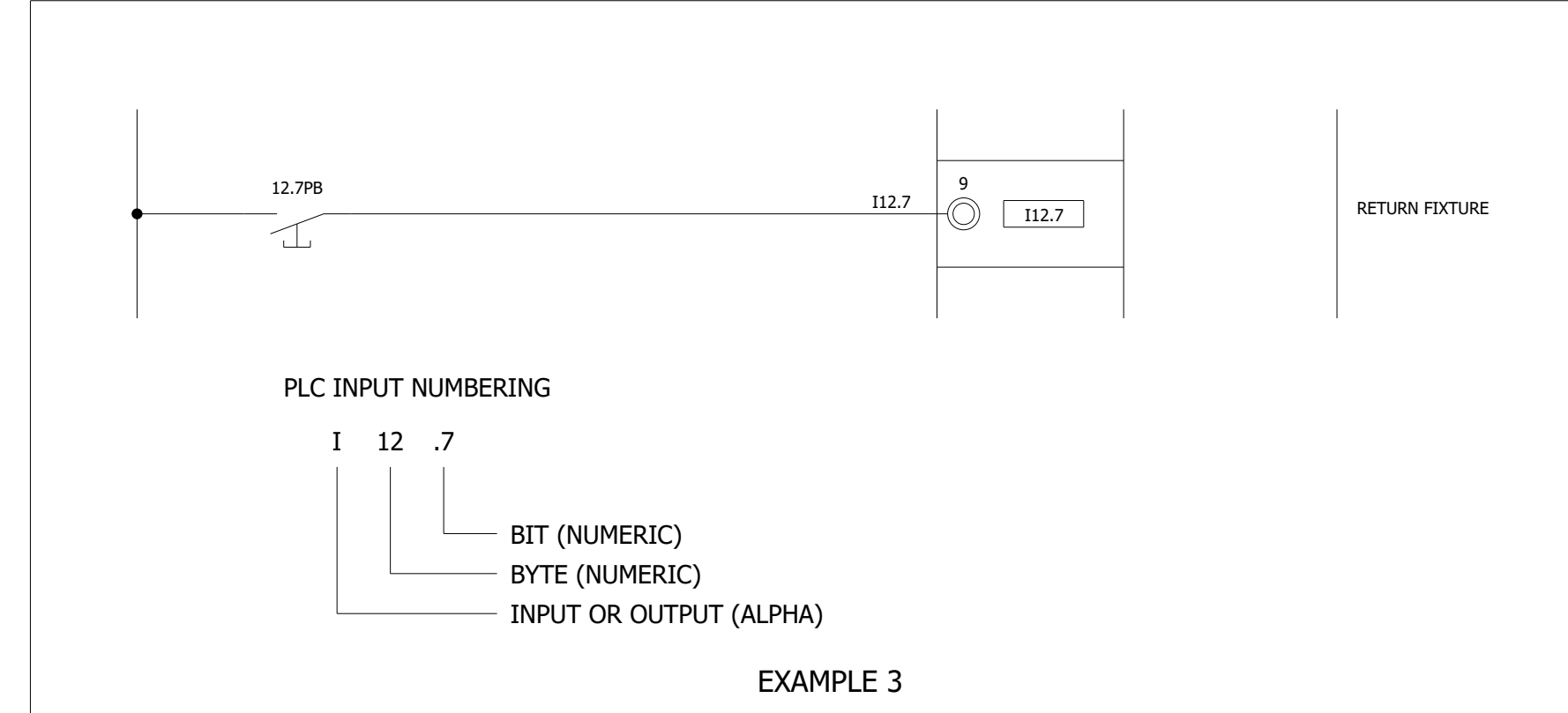
1. DEVICES ARE IDENTIFIED BY THE ALPHA SUFFIX ACCORDING TO NEMA/NFPA COMBINED WITH THE SHEET NUMBER AND LINE REFERENCE AT WHICH THE DEVICE IS POSITIONED.
2. IF TWO OR MORE DEVICES WITH THE SAME PREFIX EXIST ON THE SAME LINE REFERENCE, THEN DEVICES ARE SUFFIXED -1, -2, -3...
3. WIRE NUMBERS ARE CONSTRUCTED FROM THE SHEET AND LINE NUMBER ON WHICH THEY OCCUR, WITH AN EXTRA DIGIT AFTER THIS RANGING FROM 1 TO 9 GOING FROM LEFT TO RIGHT.



EXAMPLE 3

IF DEVICES / WIRES ARE CONNECTED TO A PLC INPUT OR OUTPUT THEN:

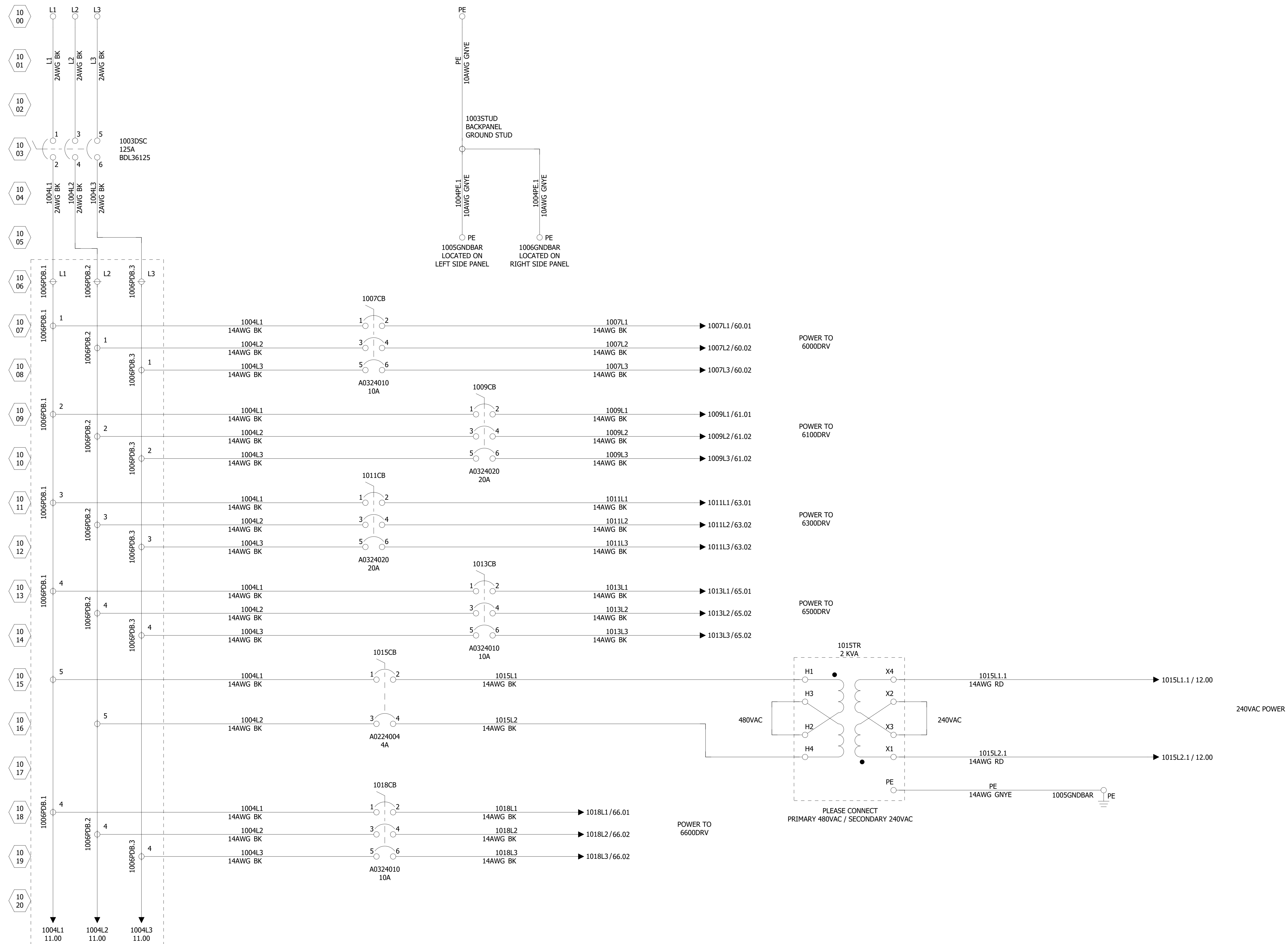
1. DEVICES ARE IDENTIFIED BY THE ALPHA SUFFIX ACCORDING TO NEMA/NFPA COMBINED WITH THE PLC ADDRESS TO WHICH IT IS CONNECTED. CONTACTS, AUX. CONTACTS FROM HARDWIRE DEVICES ARE IDENTIFIED BY THE DEVICE DESIGNATION WHERE THE DEVICE IS WIRED.
2. WIRES ARE NUMBERED USING THE FULL PLC I/O ADDRESS OF THE INPUT OR OUTPUT TO WHICH THEY ARE CONNECTED.



FUSE/CIRCUIT BREAKER/OVERLOAD SETTINGS CHART			
DEVICE TAG	FUSE/BREAKER/OVERLOAD TYPE	FUSE/BREAKER/OVERLOAD SIZE	OVERLOAD SETTING
1007CB	A0324010	10A	
1009CB	A0324020	20A	
1011CB	A0324020	20A	
1013CB	A0324010	10A	
1015CB	A0224004	4A	
1018CB	A0324010	10A	
1100CB	A0324015	15A	
1105CB	A0324003	3A	
1110CB	A0324003	3A	
1115CB	A0324006	6A	
1213CB	A0224006	6A	
1302CB.1	A0224010	10A	
1302CB.2	A0112020	20A	
1402CB	A0224010	10A	
1402CB.2	A0112004	4A	
1408CB	A0112020	20A	
1414CB	A0112008	8A	
2102CB	A0112008	8A	
1003DSC	BDL36125	125A	
1201MSP	GV2ME07	1.6-2.5A	SET AT 1.5A
1205MSP	GV2ME07	1.6-2.5A	SET AT 1.5A
1209MSP	GV2ME07	1.6-2.5A	SET AT 1.5A

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DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	MACH. NAME: ROUTER	DRAWING NO:

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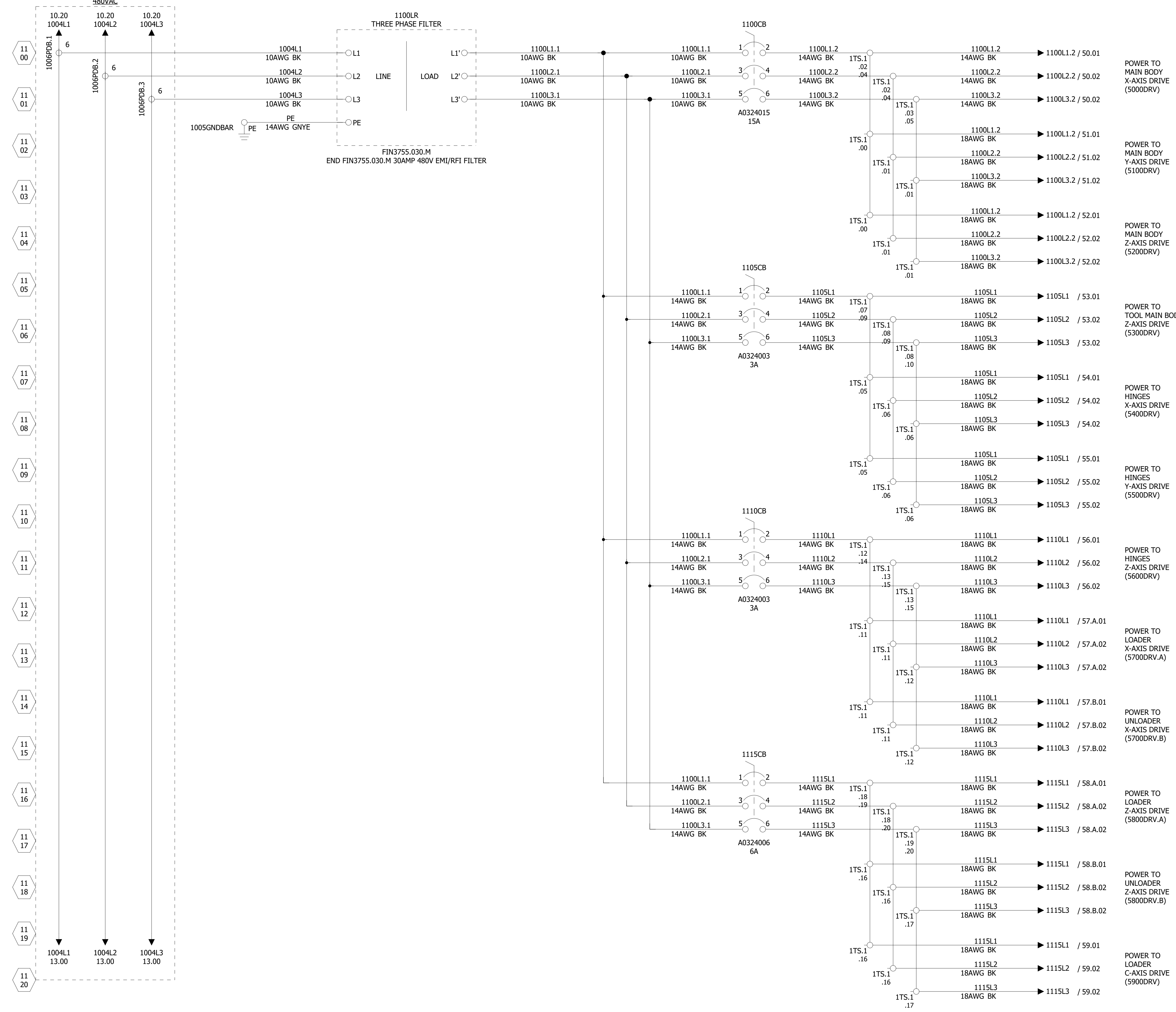
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MACHMOTION
 NEWBURG, MISSOURI, USA

DATE:
05.10.2022
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DRAWING NO:
S30006
 SUPPLIER NO:
 XXXXX
 MACH. NAME:
ROUTER
 DRAWING NO:

NAME:
ROUTER
MAIN DISCONNECT



POWER TO MAIN BODY X-AXIS DRIVE (5000DRV)

POWER TO MAIN BODY Y-AXIS DRIVE (5100DRV)

POWER TO MAIN BODY Z-AXIS DRIVE (5200DRV)

POWER TO TOOL MAIN BODY Z-AXIS DRIVE (5300DRV)

POWER TO HINGES X-AXIS DRIVE (5400DRV)

POWER TO HINGES Y-AXIS DRIVE (5500DRV)

POWER TO HINGES Z-AXIS DRIVE (5600DRV)

POWER TO LOADER X-AXIS DRIVE (5700DRV.A)

POWER TO UNLOADER X-AXIS DRIVE (5700DRV.B)

POWER TO LOADER Z-AXIS DRIVE (5800DRV.A)

POWER TO UNLOADER Z-AXIS DRIVE (5800DRV.B)

POWER TO LOADER C-AXIS DRIVE (5900DRV)

COMPANY:
MACHMOTION
NEWBURG, MISSOURI, USA

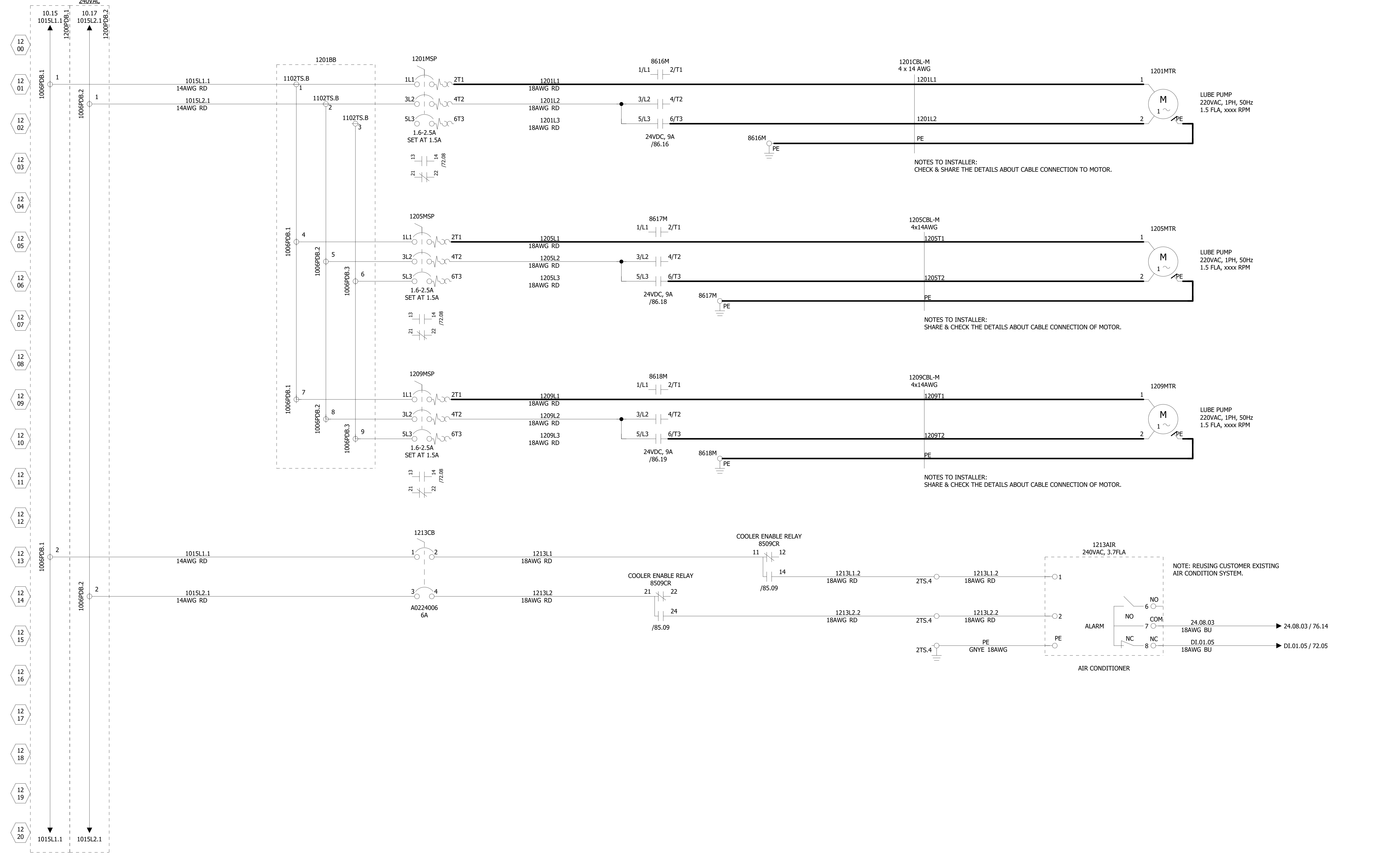
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05.10.2022
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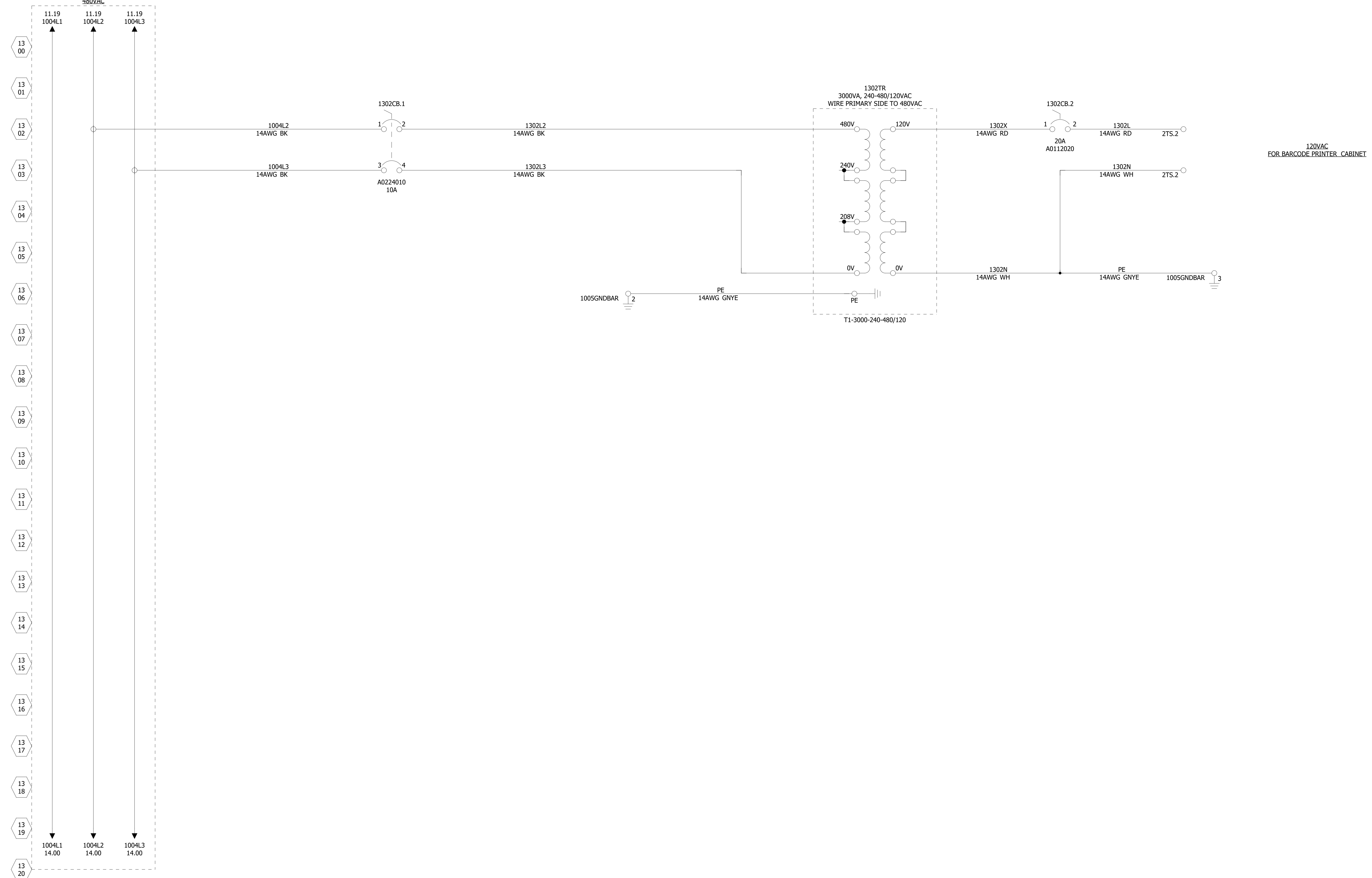
DRAWING NO:
S30006
SUPPLIER NO:
XXXXXX
MACH. NAME:
ROUTER

DRAWING NO:

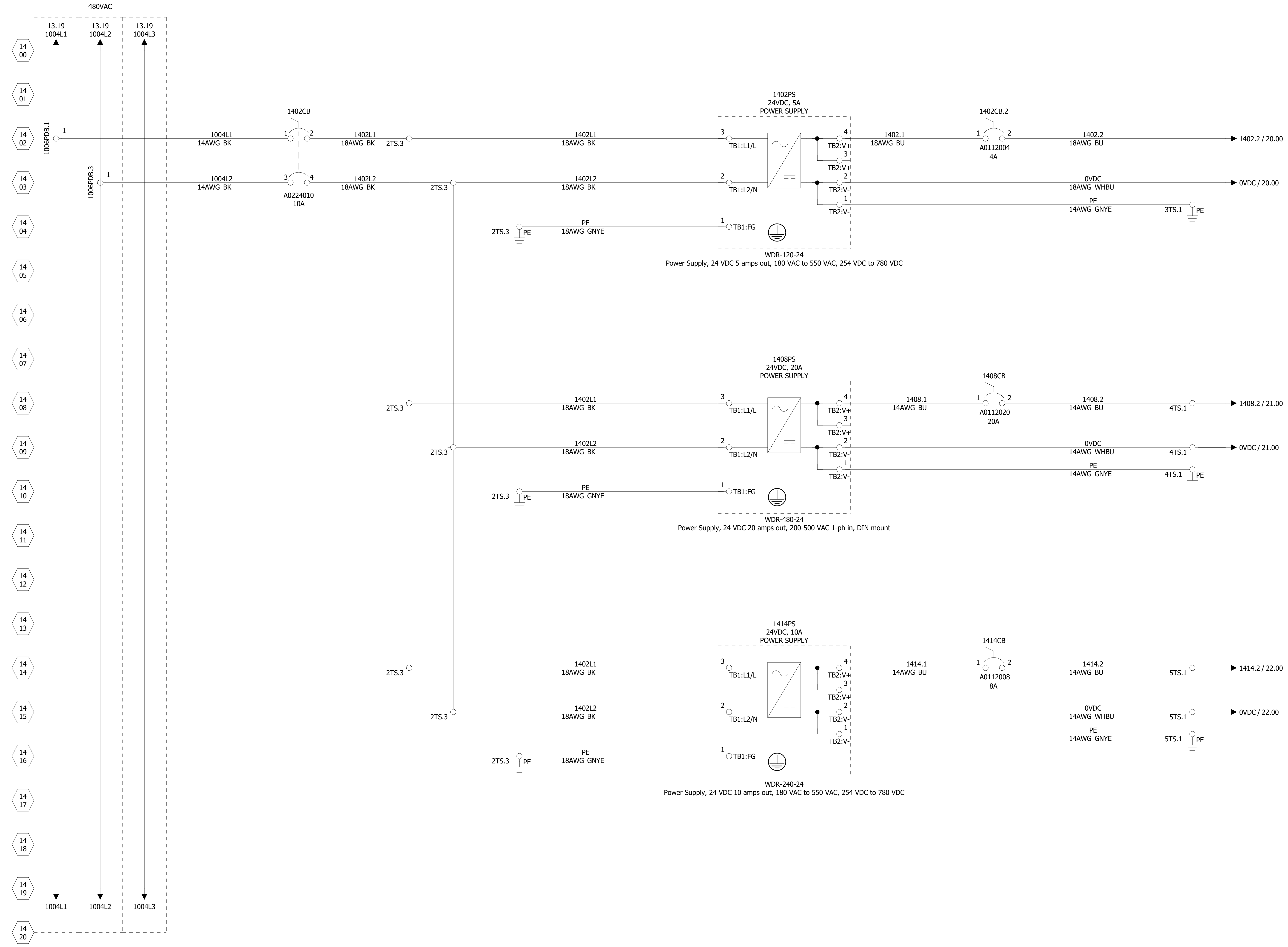
NAME:
ROUTER
THREE PHASE POWER - 480VAC



COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER THREE PHASE POWER - 240VAC	= + PREV PAGE: <<--- 11 NEXT PAGE: --->> 13
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		STA. NO: -	MACH. NAME: ROUTER	DRAWING NO:	



COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX		DRAWING NO:		PREV PAGE: <<---		PAGE: 12	
								MACH. NAME: ROUTER				NEXT PAGE: --->>		PAGE: 14		

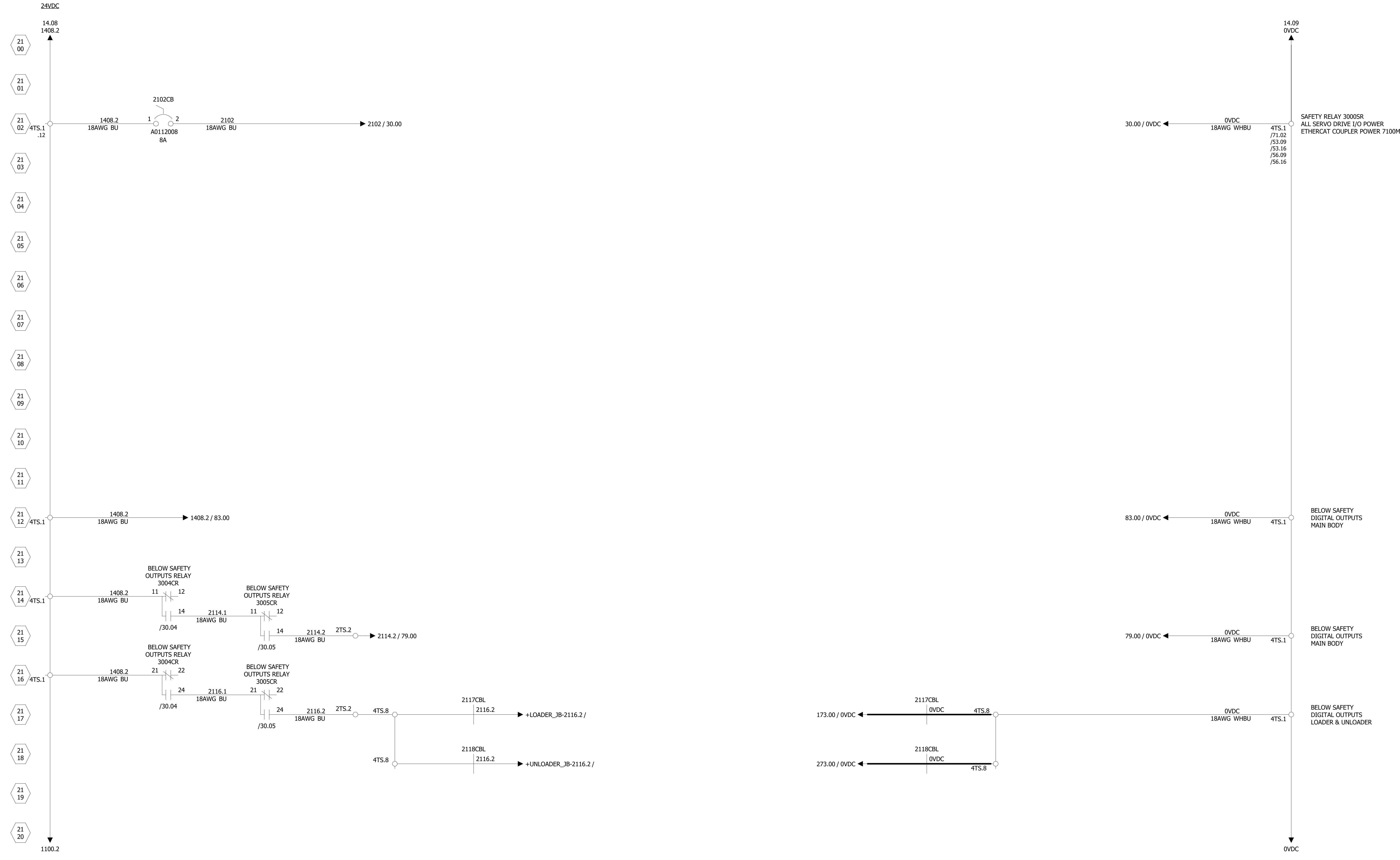


24VDC
HMI POWER

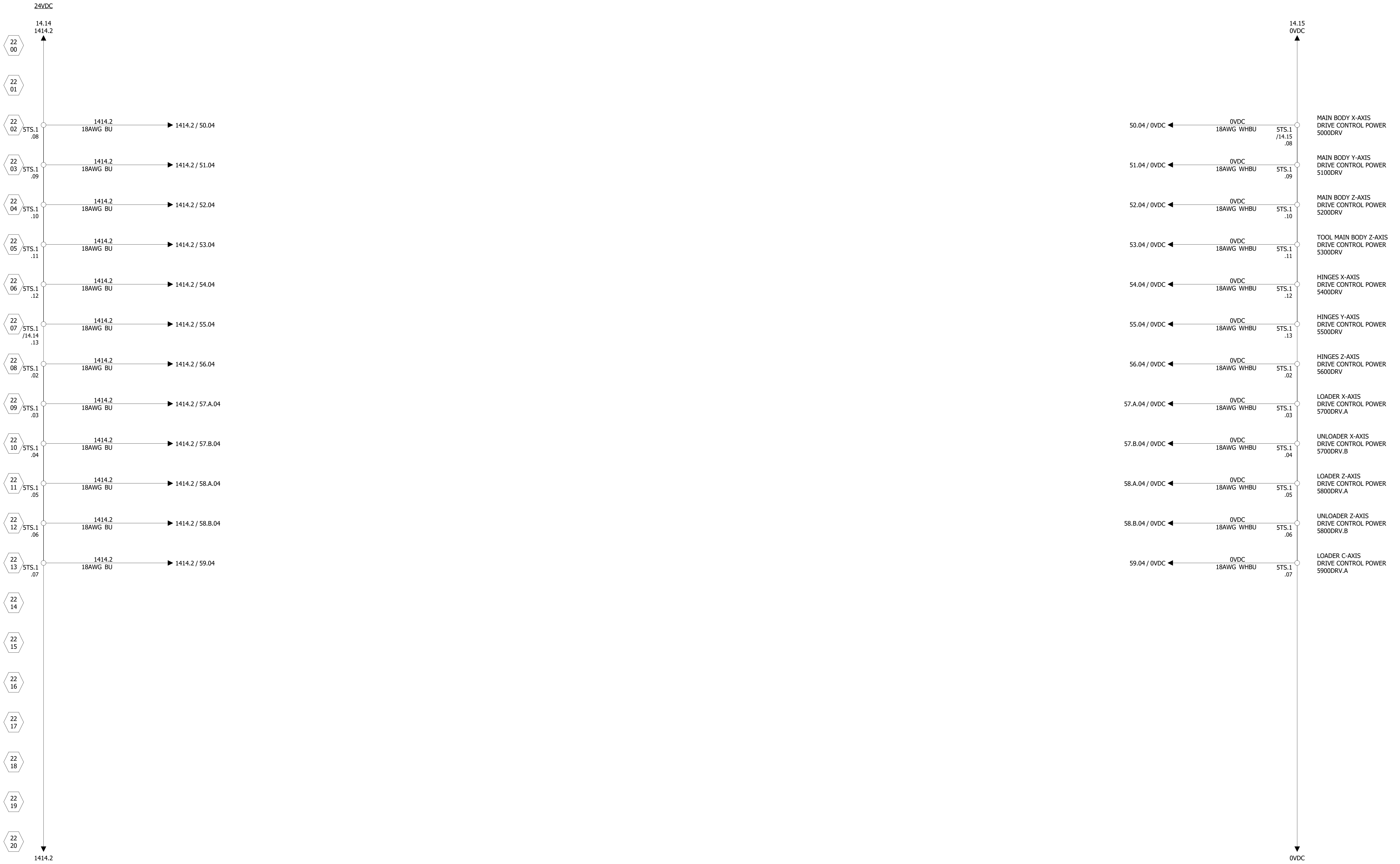
24VDC
GENERAL MACHINE
POWER

24VDC
DRIVE
POWER

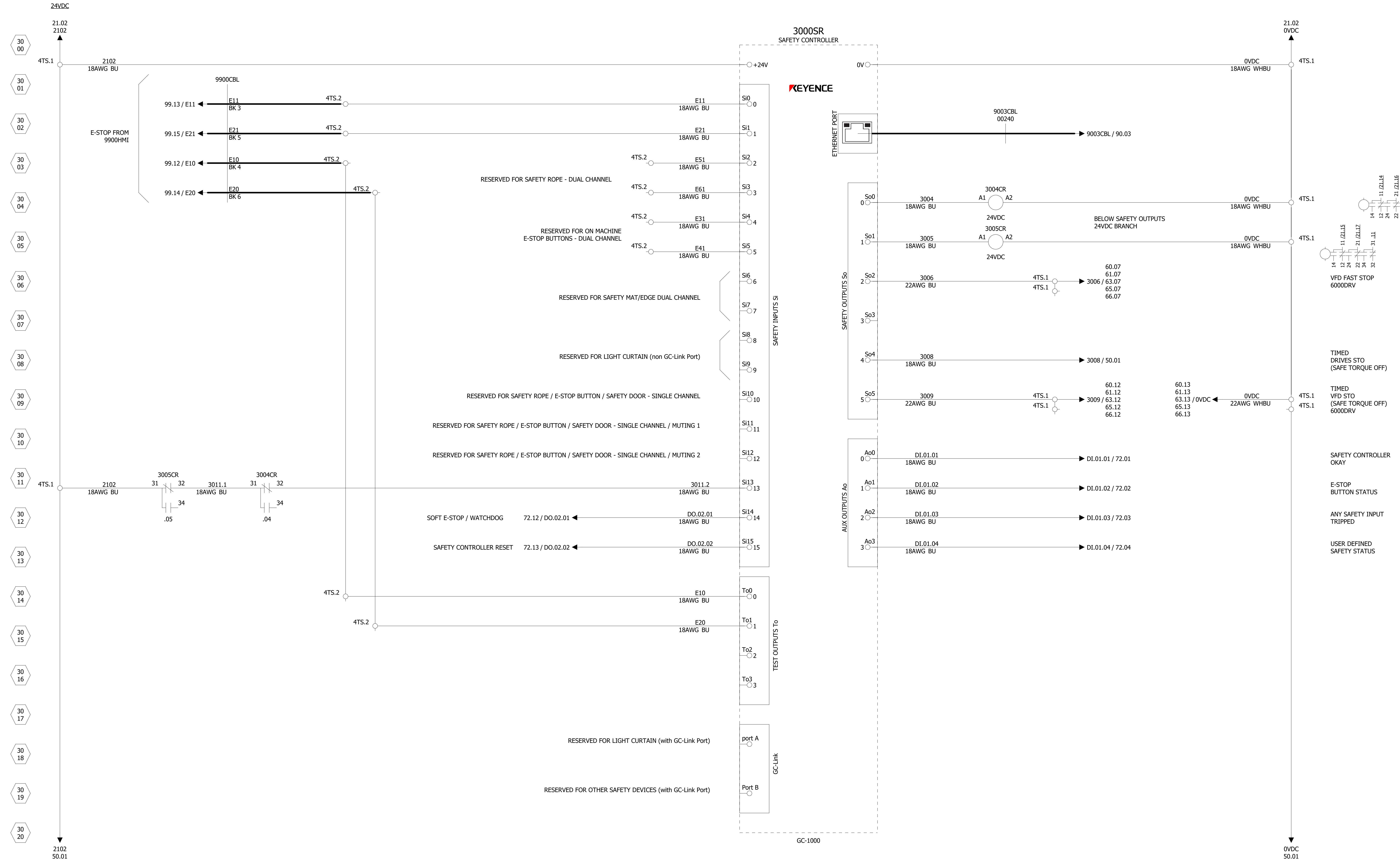
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	REVISION:	LOC:	FACTORY:	SUPPLIER NO: XXXXXX	24VDC POWER SUPPLIES	&	PREV PAGE: <<--- 13
APPROVER:	OP. NO:	DEPT:	STA. NO:	MACH. NAME: ROUTER	DRAWING NO:	#	NEXT PAGE: --->> 20



COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		= +	
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX		24VDC POWER DISTRIBUTION		PREV PAGE: <<--- 20
									MACH. NAME: ROUTER		DRAWING NO:		NEXT PAGE: --->> 22



COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER	
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	MACH. NAME: ROUTER		DRAWING NO:
										24VDC POWER DISTRIBUTION	
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										PREV PAGE: <<--- PAGE: 21	
										NEXT PAGE: --->> 30	
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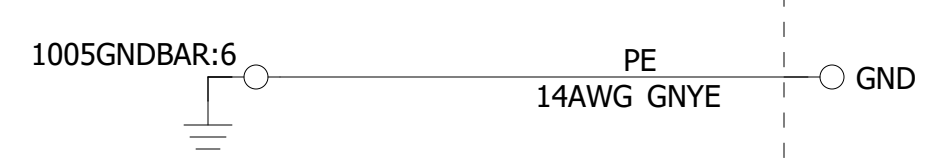
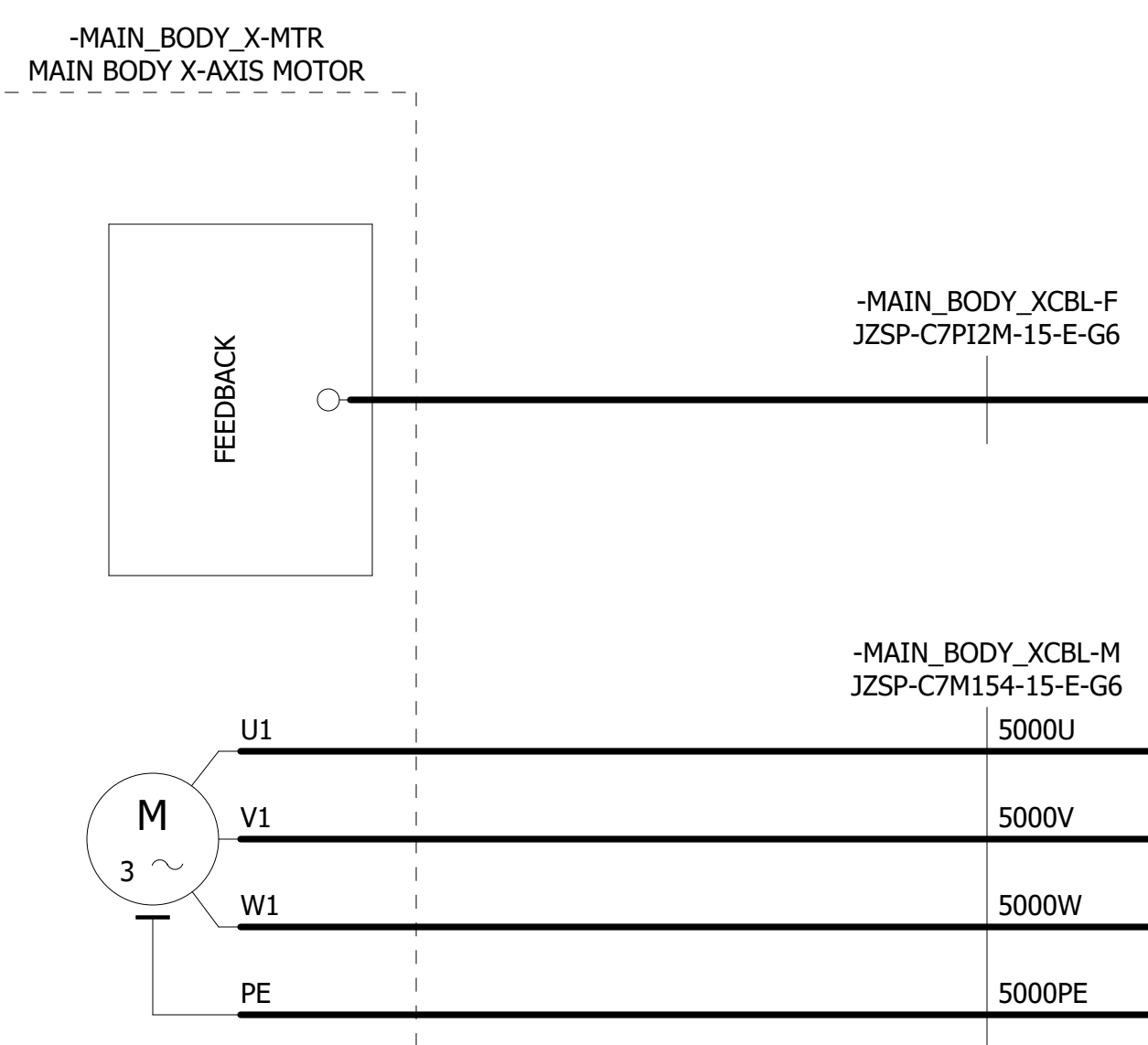
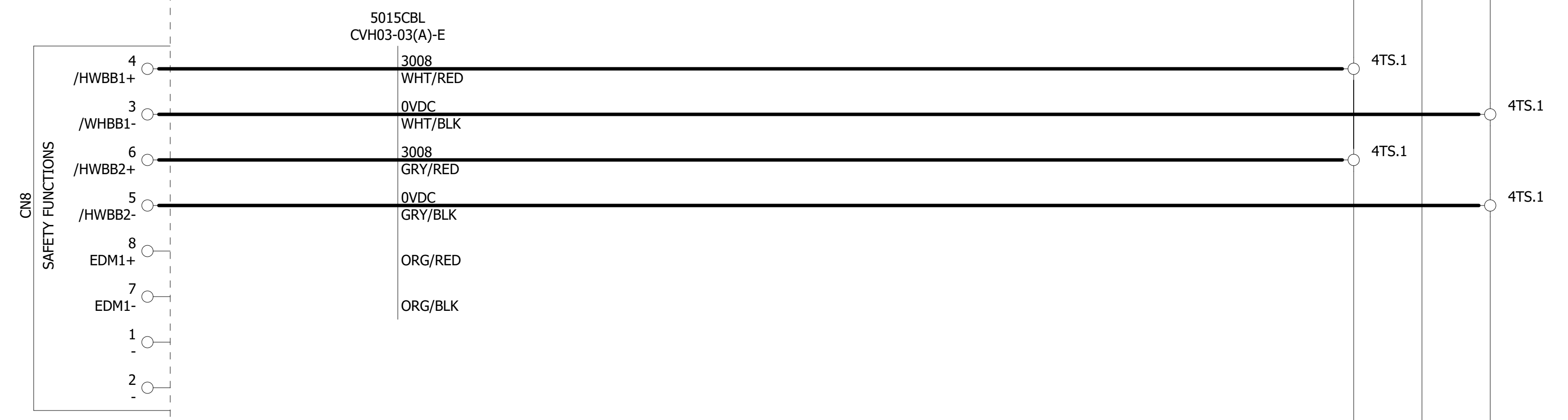
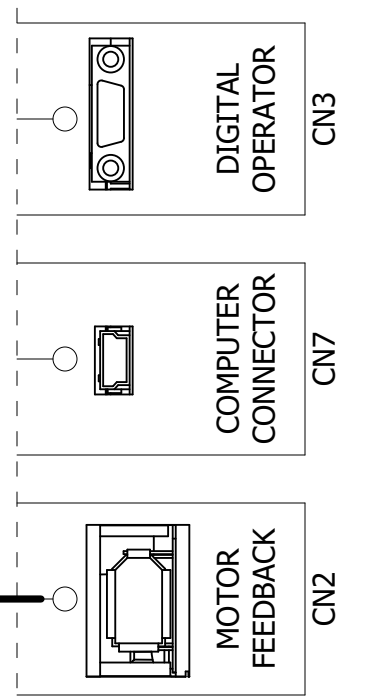
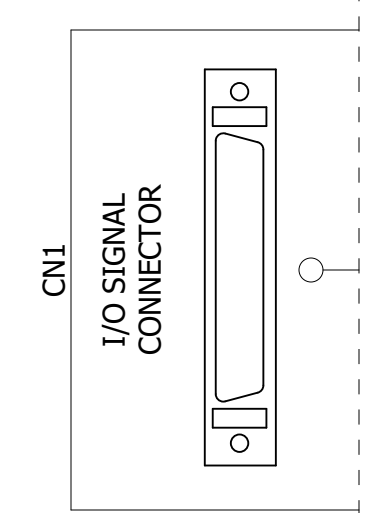
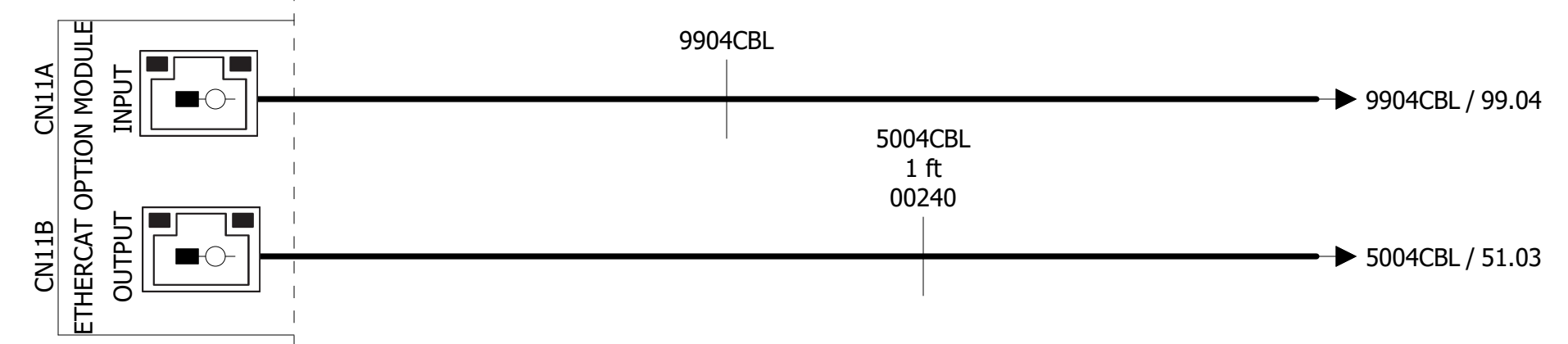
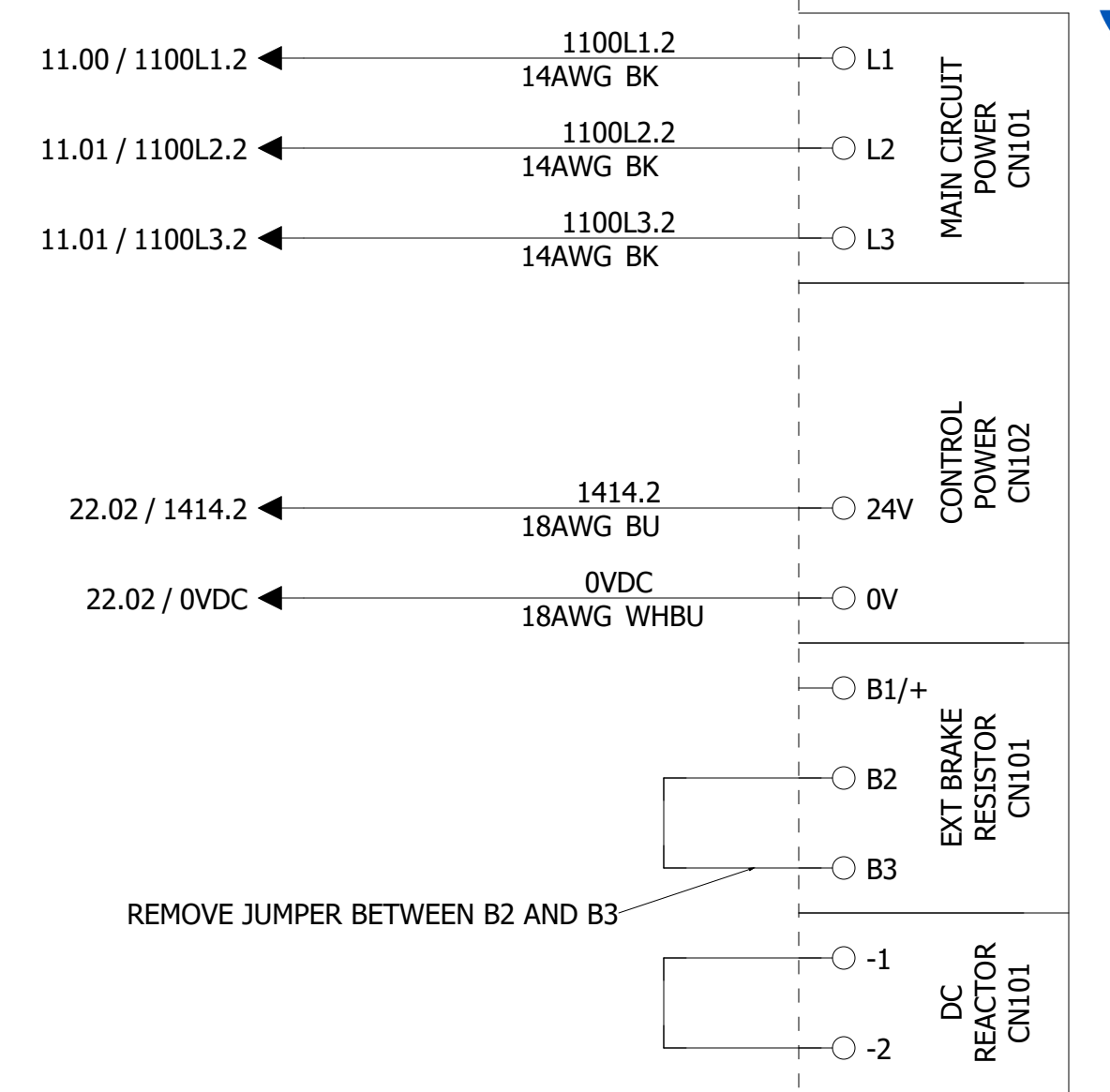


COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+	
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX	3000 SR - SAFETY RELAY		PREV PAGE: <<---		PAGE:	
								MACH. NAME: ROUTER		DRAWING NO:		NEXT PAGE: --->>		22	
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5000DRV
400VAC, 3.0KW
MAIN BODY X-AXIS DRIVE

YASKAWA 
SGD7S 400V



SGD7S-120DA0B000F64
S7S AMP 3.0KW 400V ETHERCAT

BELOW SAFETY
24VDC
30.08 3008
30.20 2102
30.20 0VDC

4TS.1
4TS.1
4TS.1
4TS.1

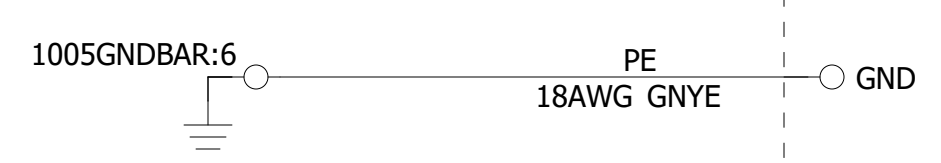
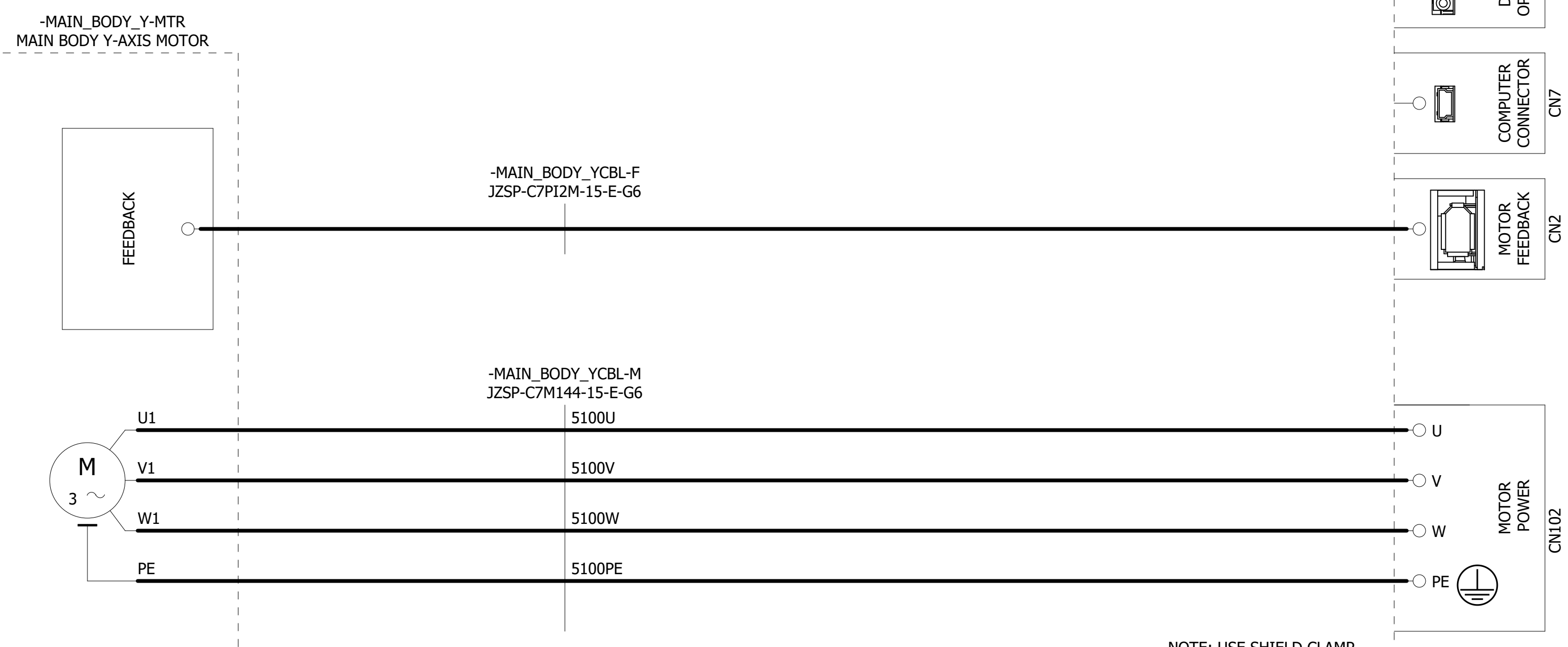
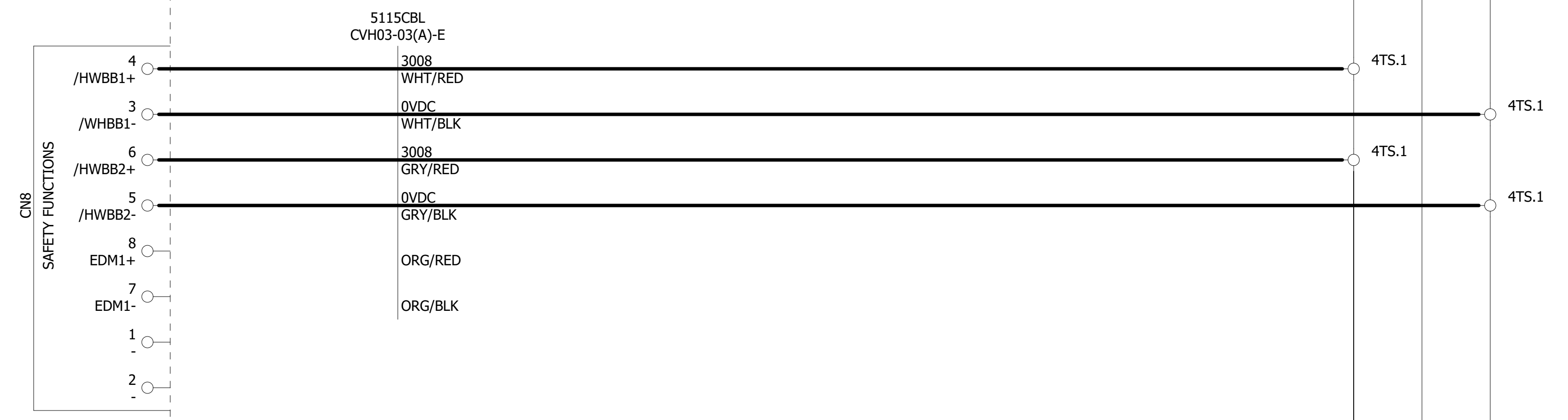
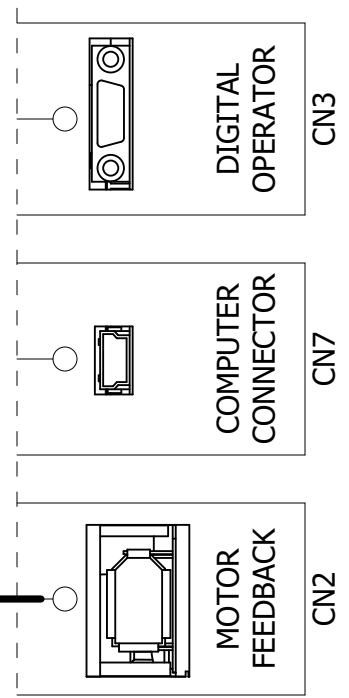
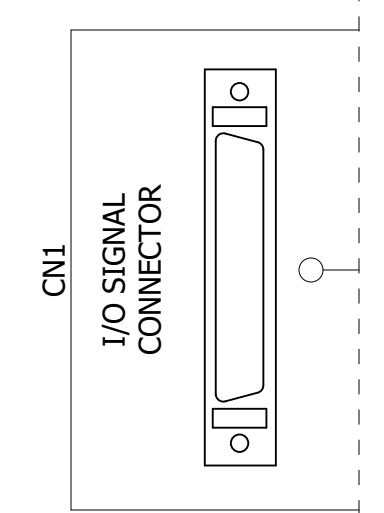
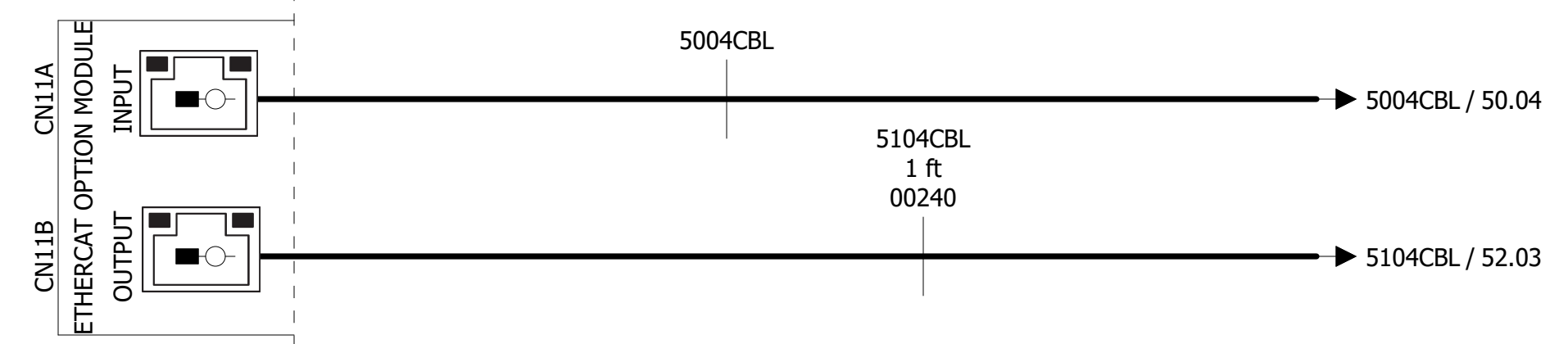
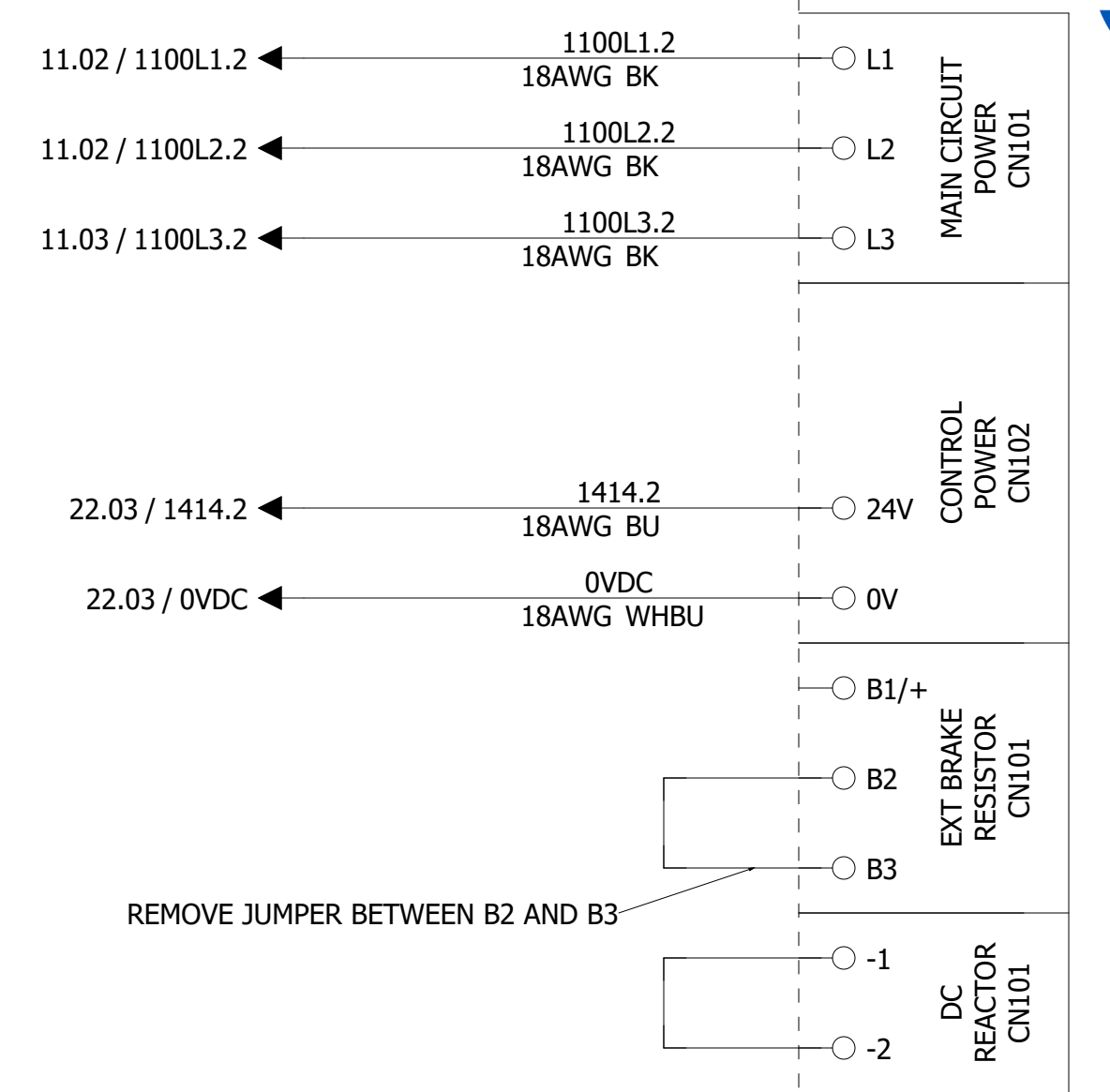
3008 51.01
2102 51.01
0VDC 51.01

COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 5000 DRV - MAIN BODY X-AXIS DRIVE	=	+
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	DRAWING NO:	&	PREV PAGE: <<--- 30 NEXT PAGE: --->>
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5100DRV
400VAC, 1.0kW
MAIN BODY Y-AXIS DRIVE

YASKAWA
SGD7S
400V

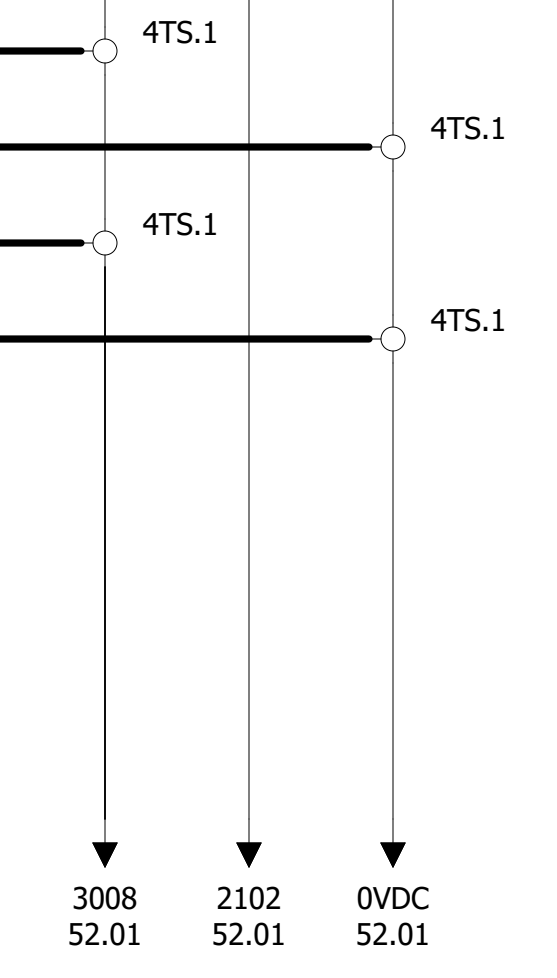


SGD7S-3R5DA0B000F64
Servo drive, S5, 1.0kW 400V A/P VN

BELOW
SAFETY
24VDC
50.20
3008

24VDC
50.20
2102

50.20
0VDC

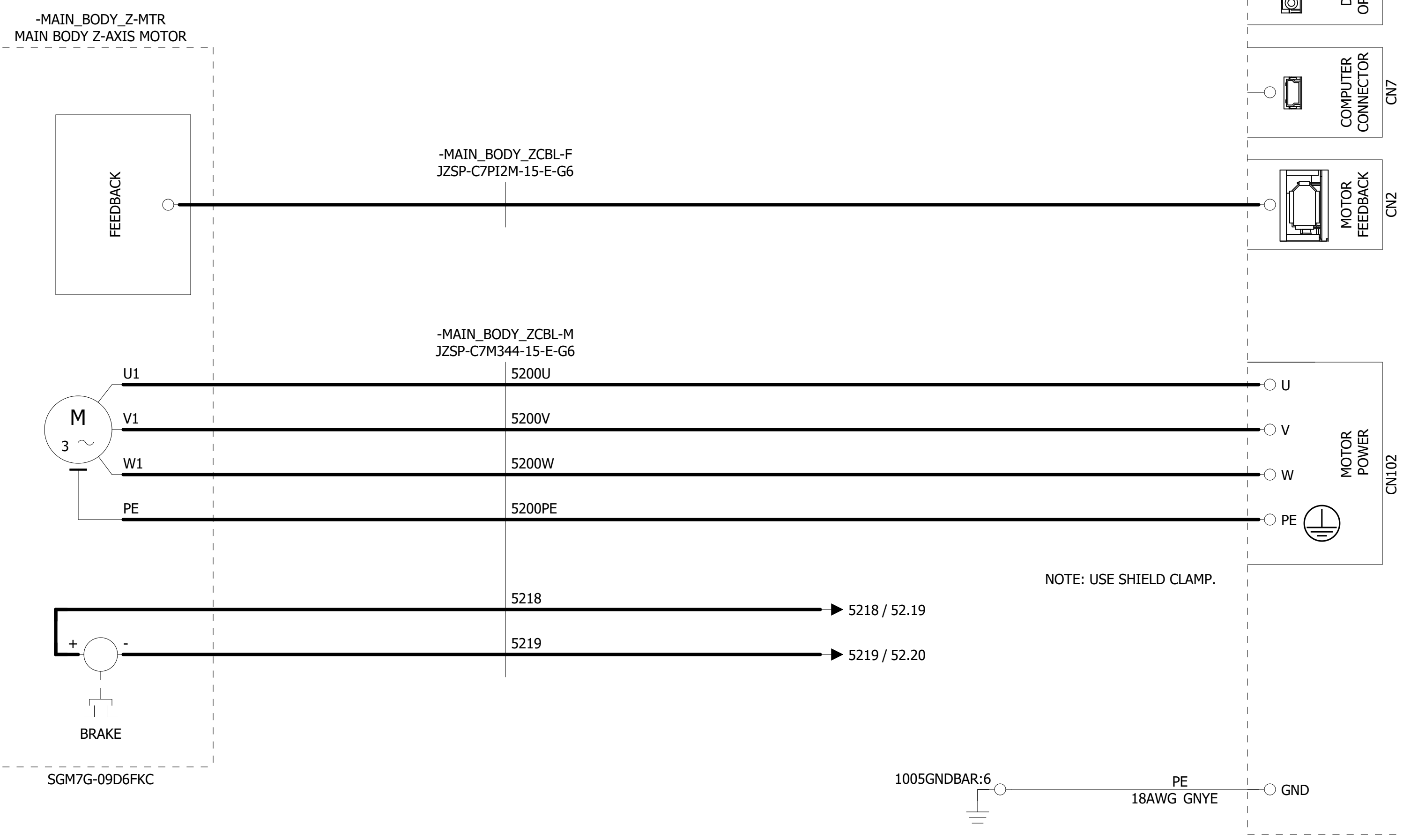
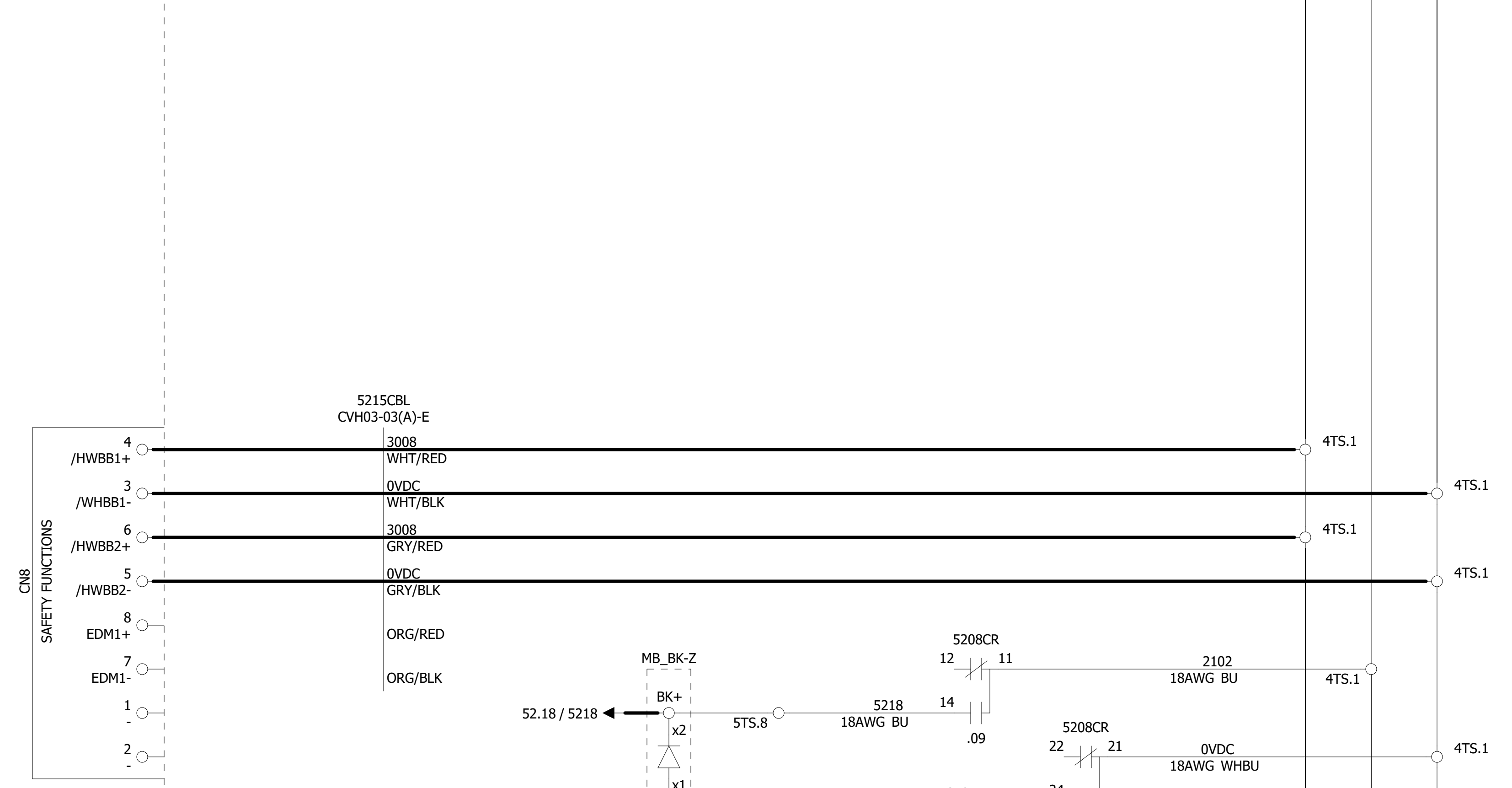
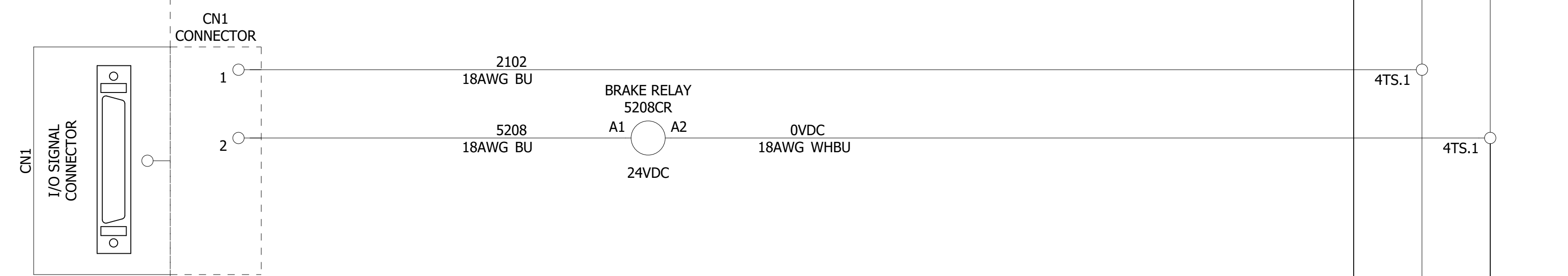
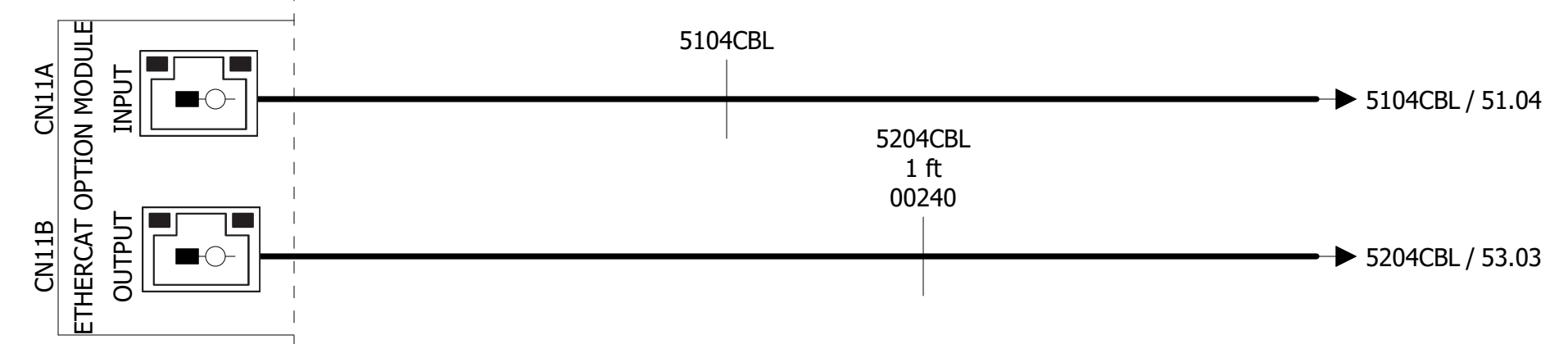
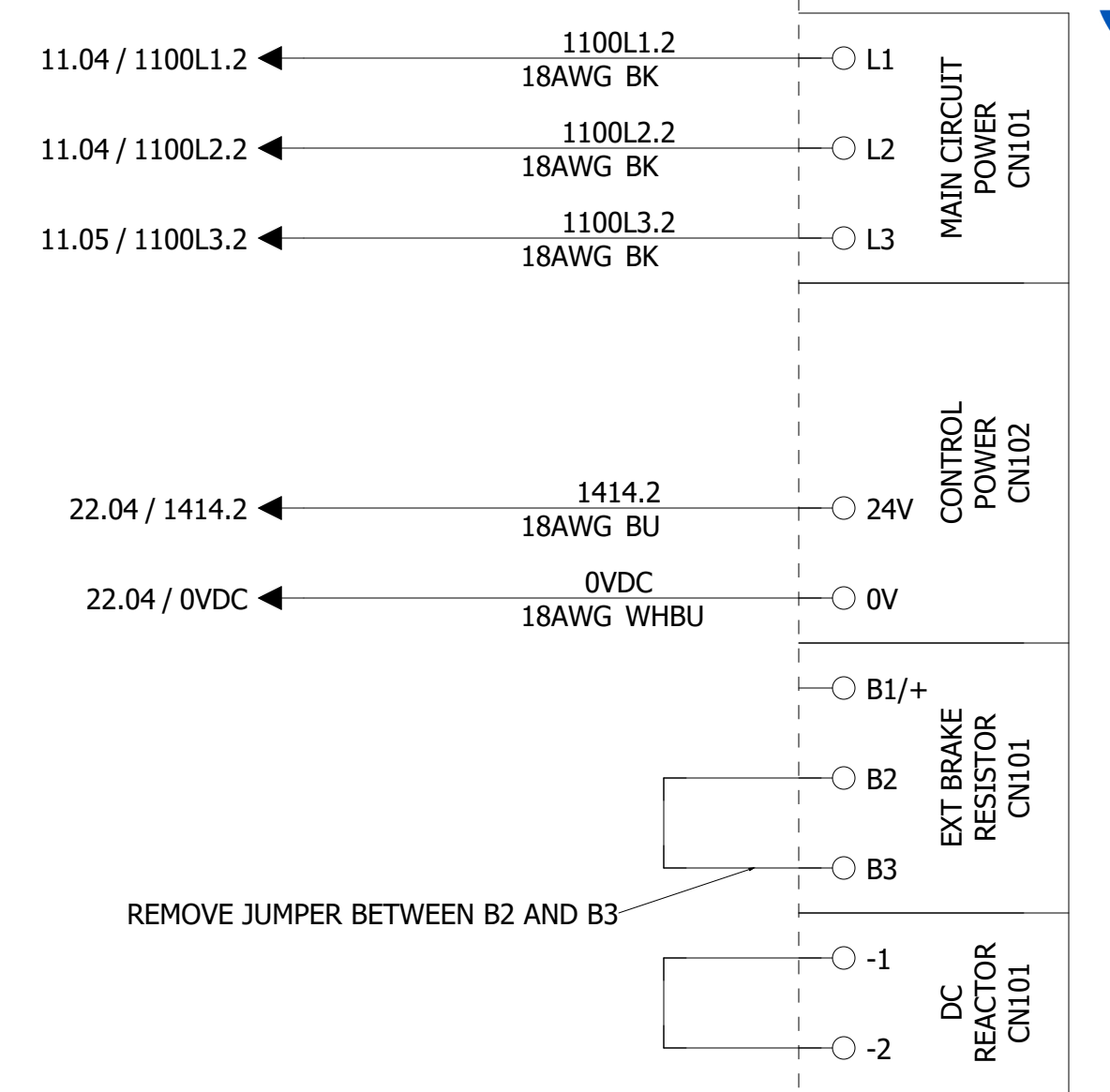


COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 5100 DRV - MAIN BODY Y-AXIS DRIVE	=	+
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	DRAWING NO:	&	PREV PAGE: <<--- 50 NEXT PAGE: --->>
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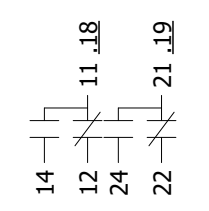
5200DRV
400VAC, 1.0kW
MAIN BODY Z-AXIS DRIVE

YASKAWA
SGD7S
400V



SGD7S-3R5DA0B000F64
Servo drive, 55, 1.0kW 400V A/P VN

BELOW SAFETY
24VDC 24VDC
51.20 51.20 51.20
3008 2102 0VDC

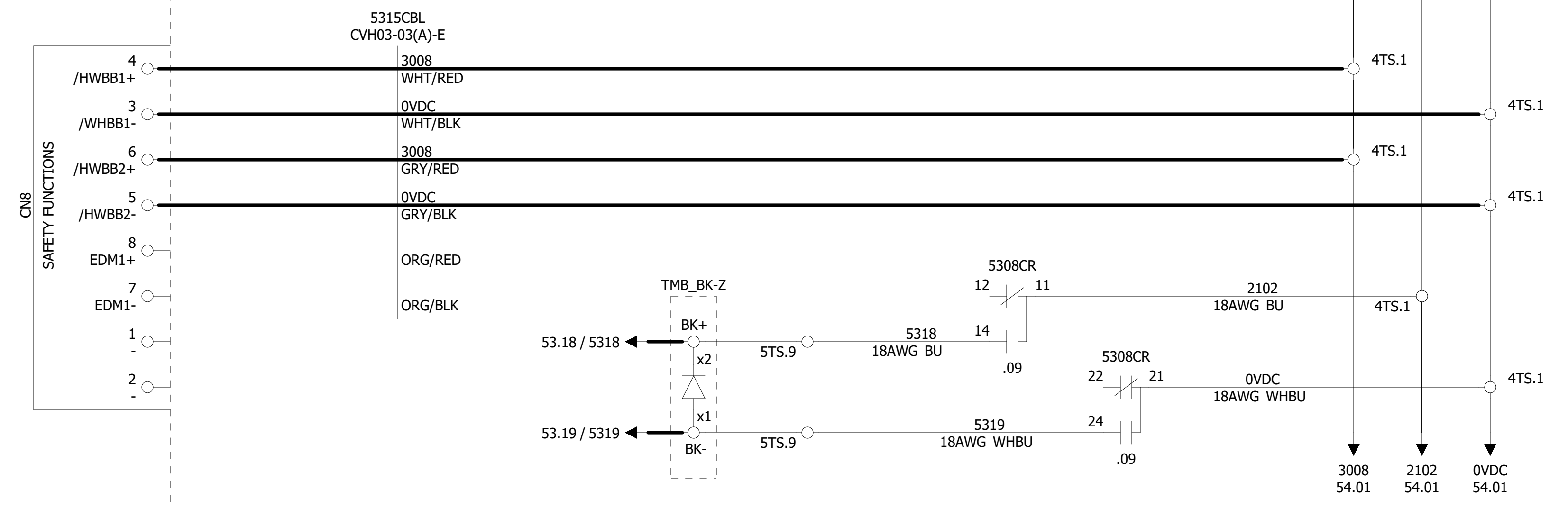
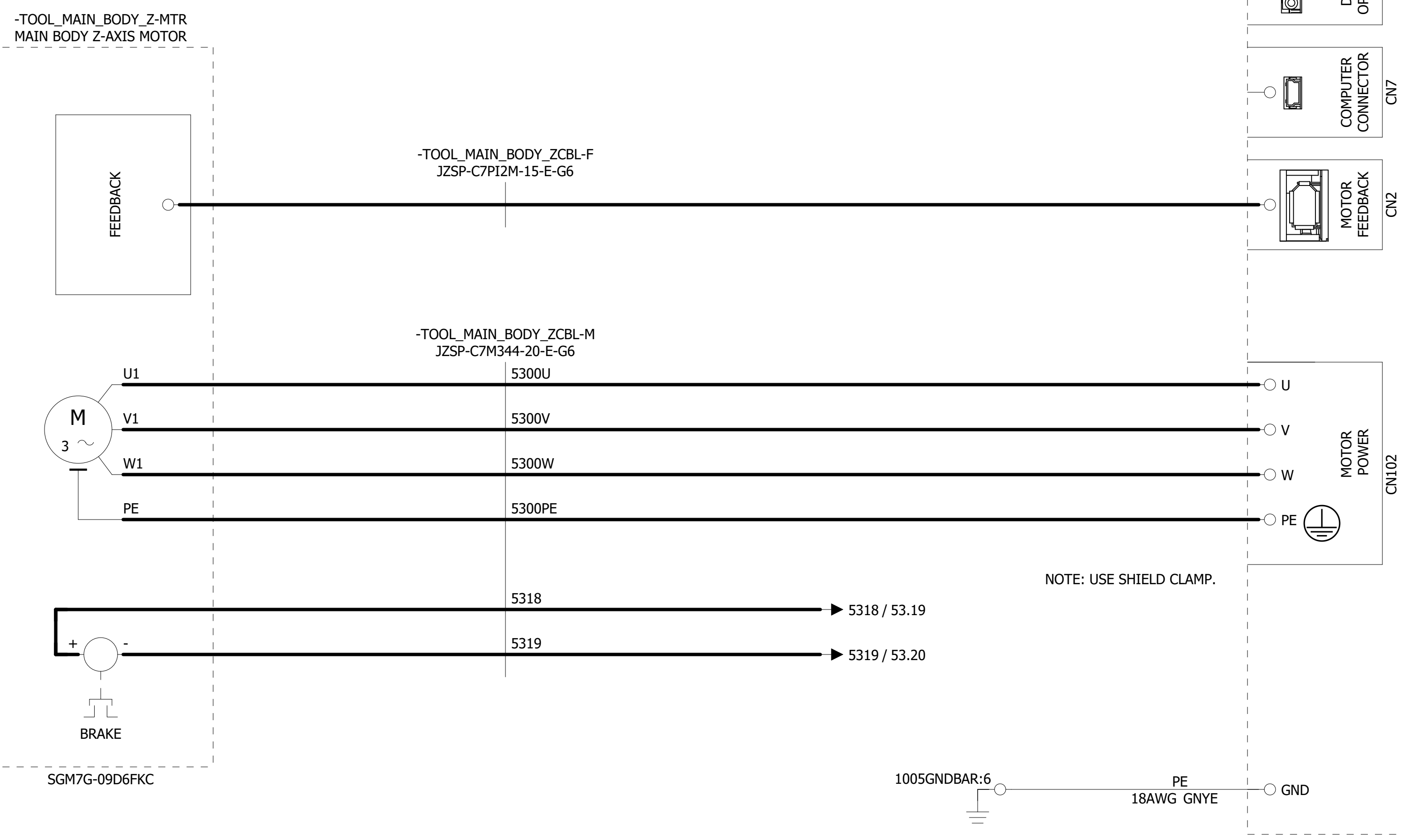
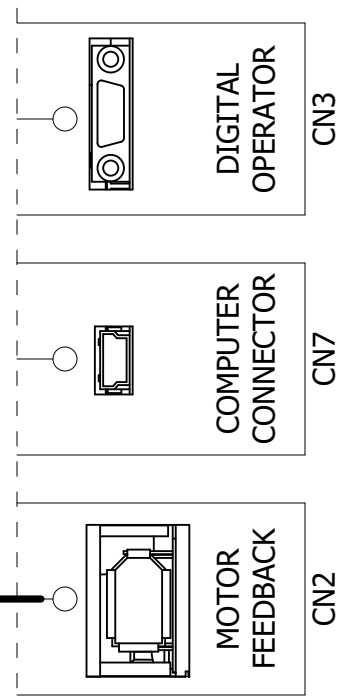
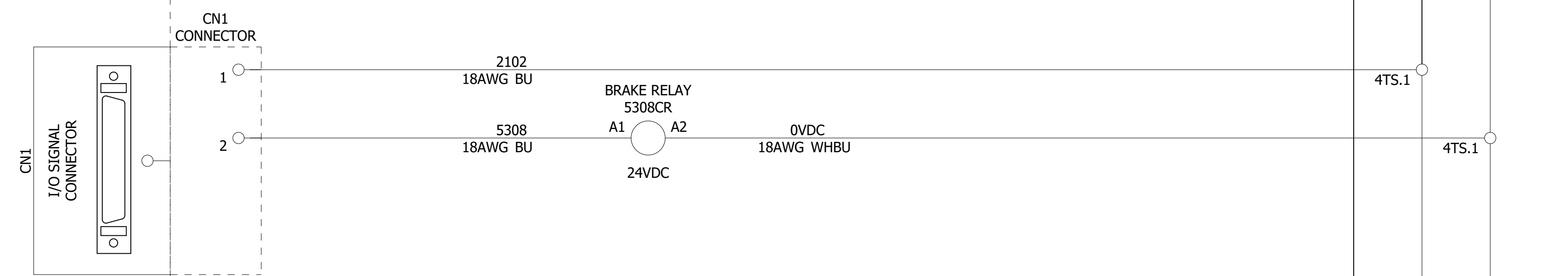
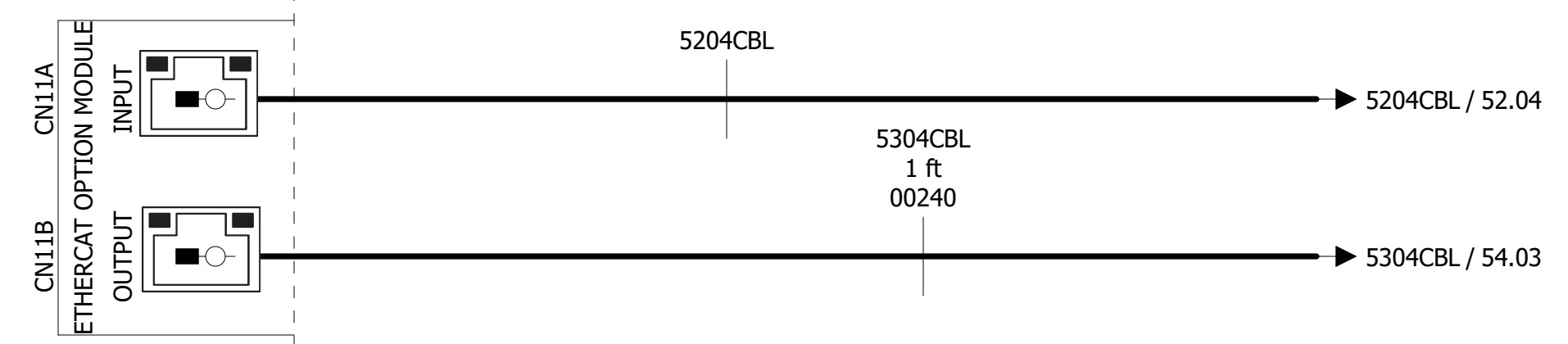
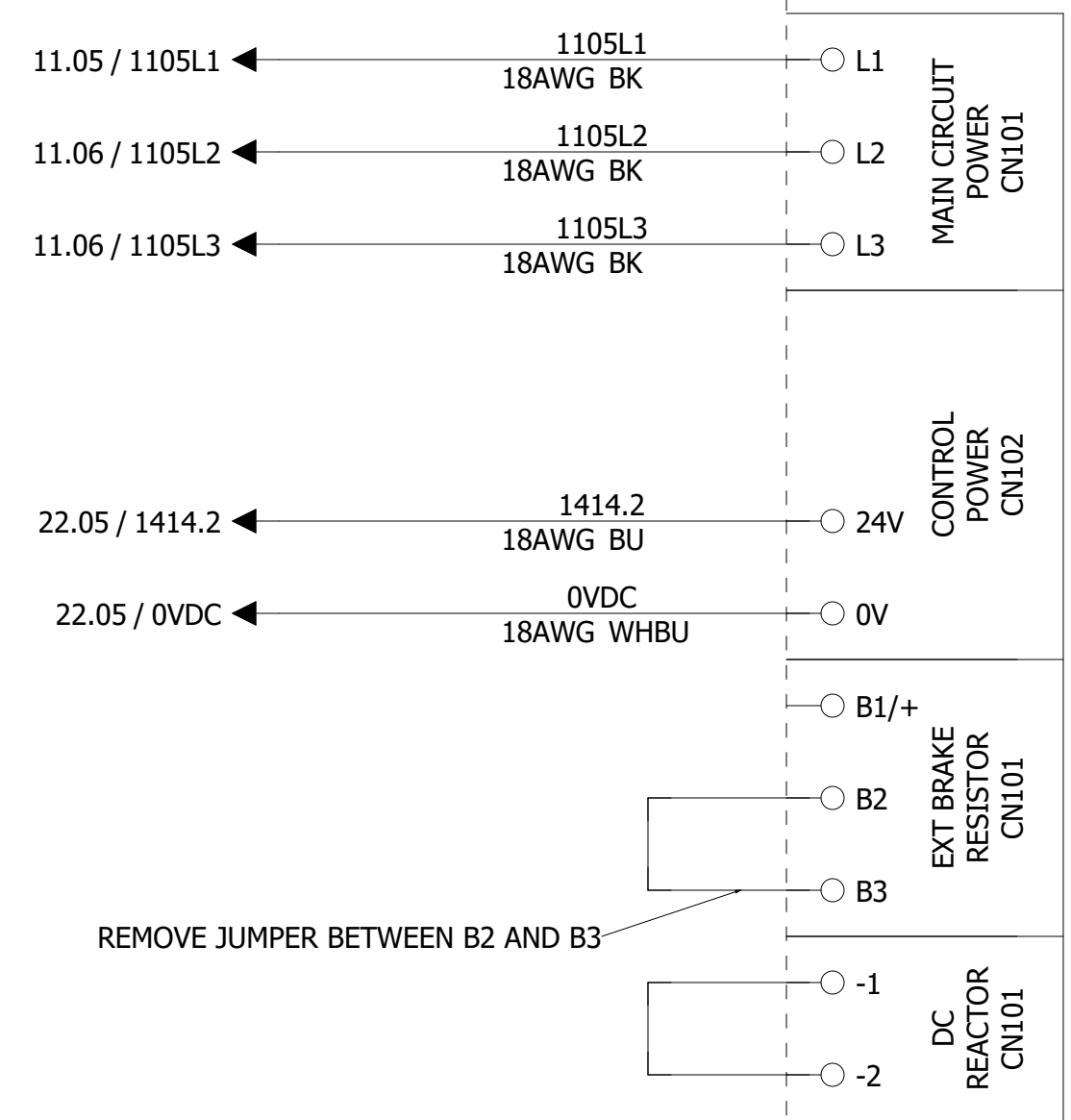


COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 5200 DRV - MAIN BODY Z-AXIS DRIVE	=	+
DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	DEPT:	DRAWING NO:	&	PREV PAGE: <<--- 51 NEXT PAGE: --->>
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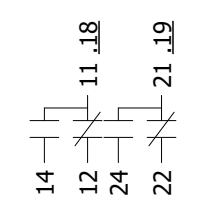
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5300DRV
400VAC, 1.0kW
TOOL MAIN BODY Z-AXIS DRIVE

YASKAWA
SGD7S 400V



BELOW SAFETY
24VDC 52.20 3008
24VDC 52.20 2102
0VDC 52.20 0VDC



SGD7S-3R5DA0B000F64
Servo drive, S5, 1.0kW 400V A/P VN

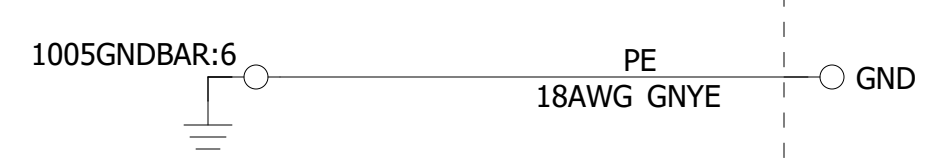
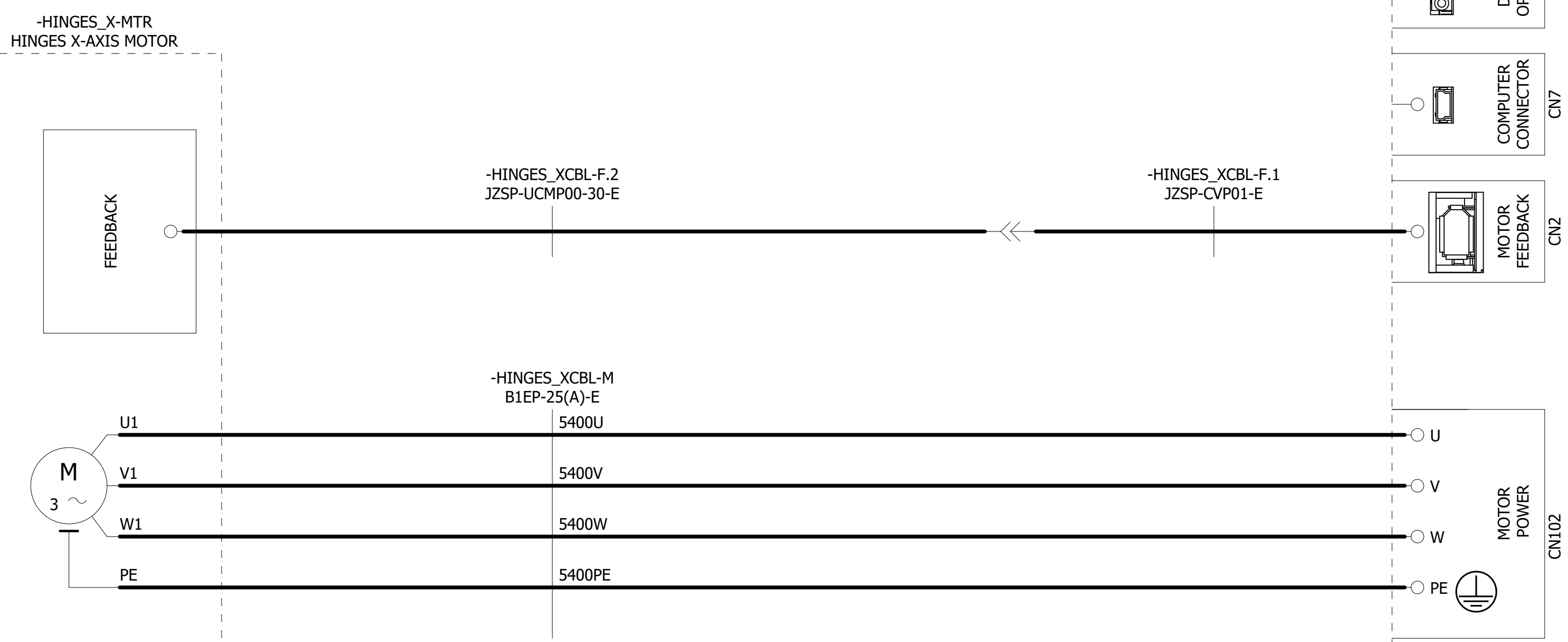
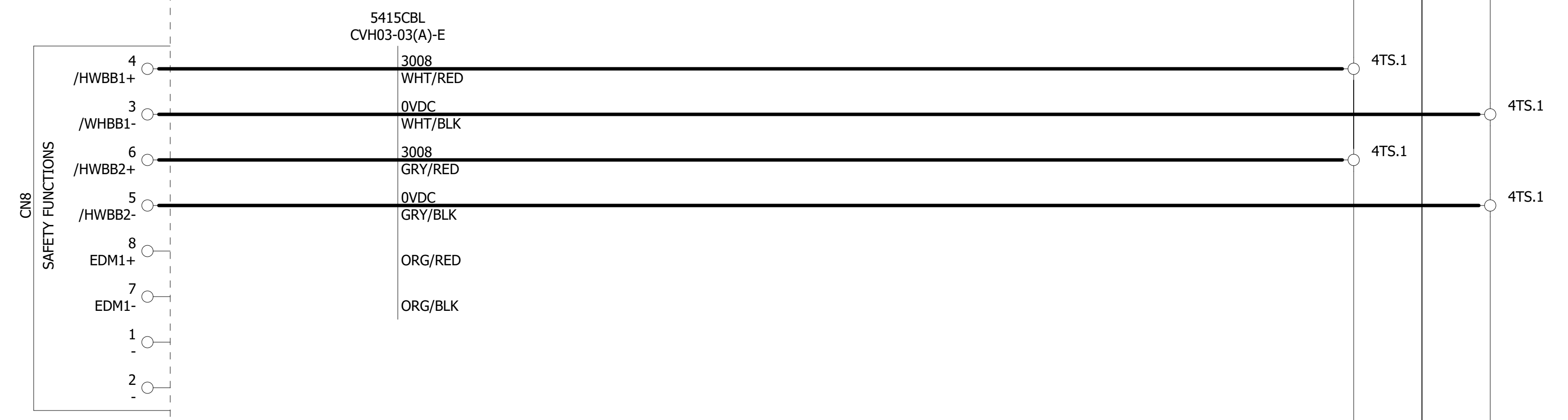
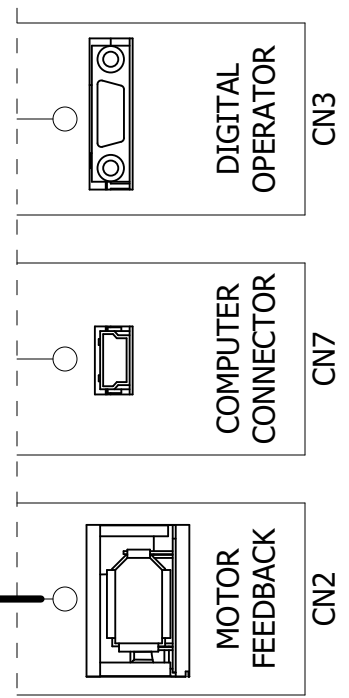
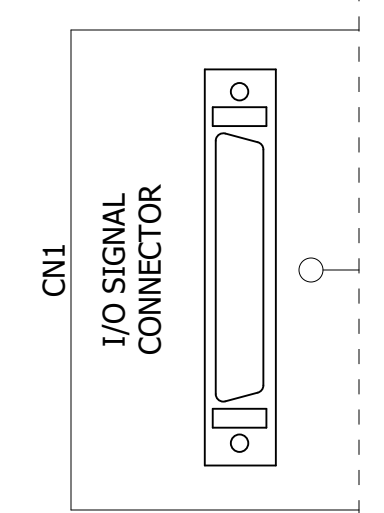
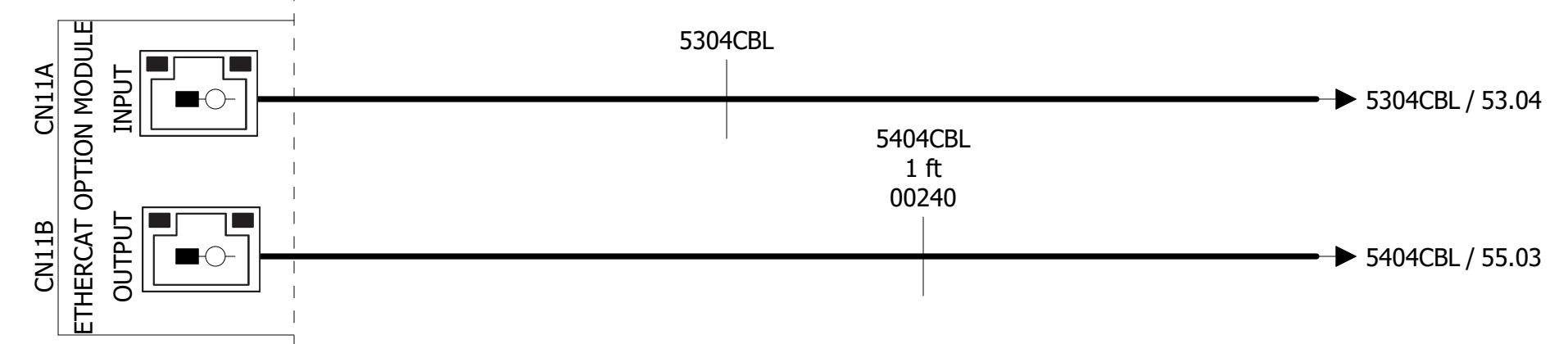
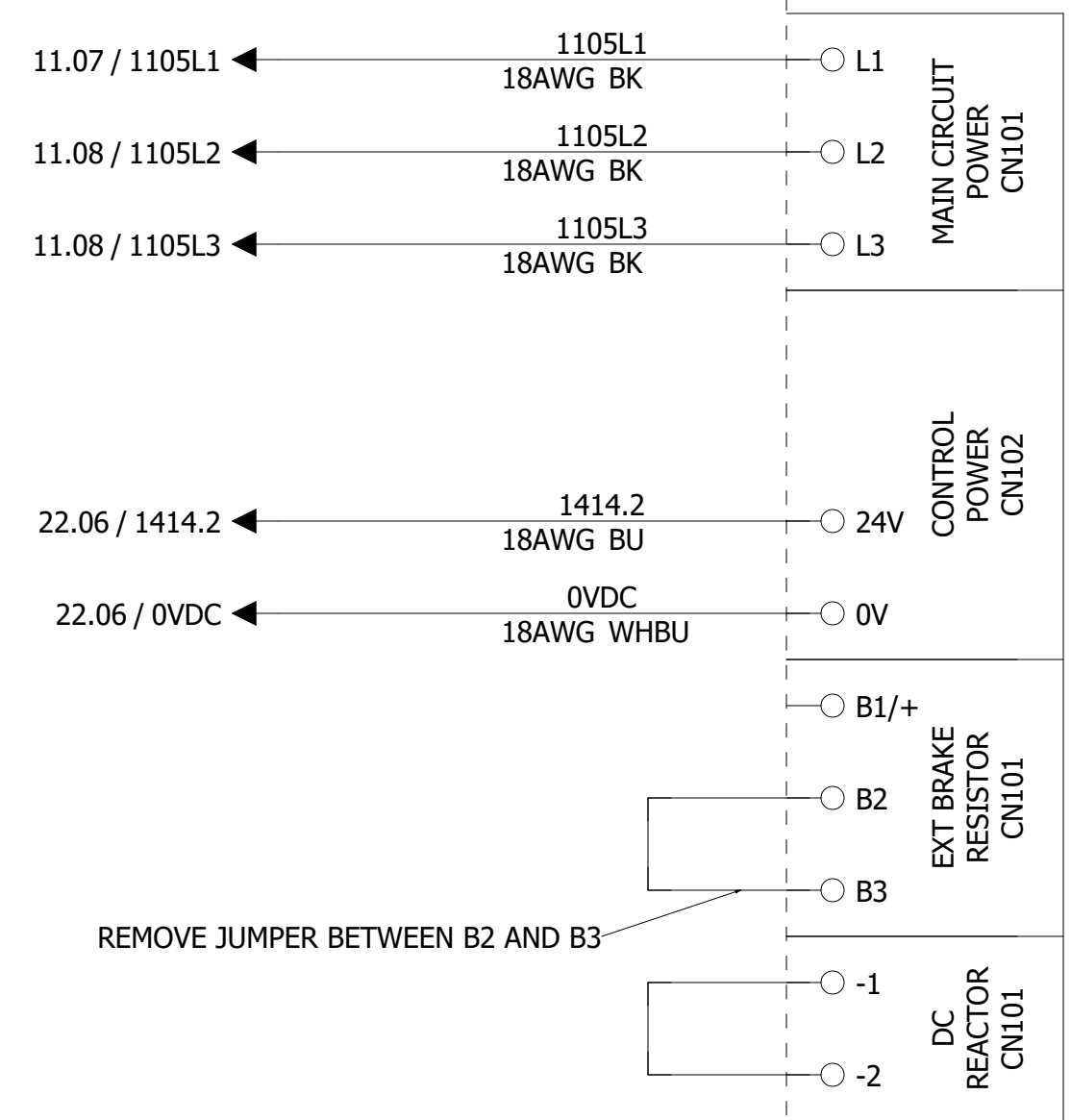
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	= + & #	PREV PAGE: <<--- 52 NEXT PAGE: --->>> 54	PAGE:		
DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	DEPT:	OP. NO:				STA. NO:	MACH. NAME: ROUTER

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5400DRV
400VAC, 2.0KW
HINGES X-AXIS DRIVE

YASKAWA
SGDV

400V



SGDV-8R4DE1A002000200
55 Amp 2.0KW 400V With Ethercat Vn

BELOW SAFETY
24VDC
53.20 53.20 53.20
3008 2102 0VDC

4TS.1
4TS.1
4TS.1
4TS.1
3008 55.01
2102 55.01
0VDC 55.01

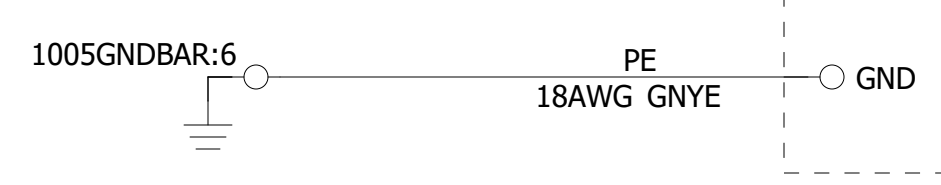
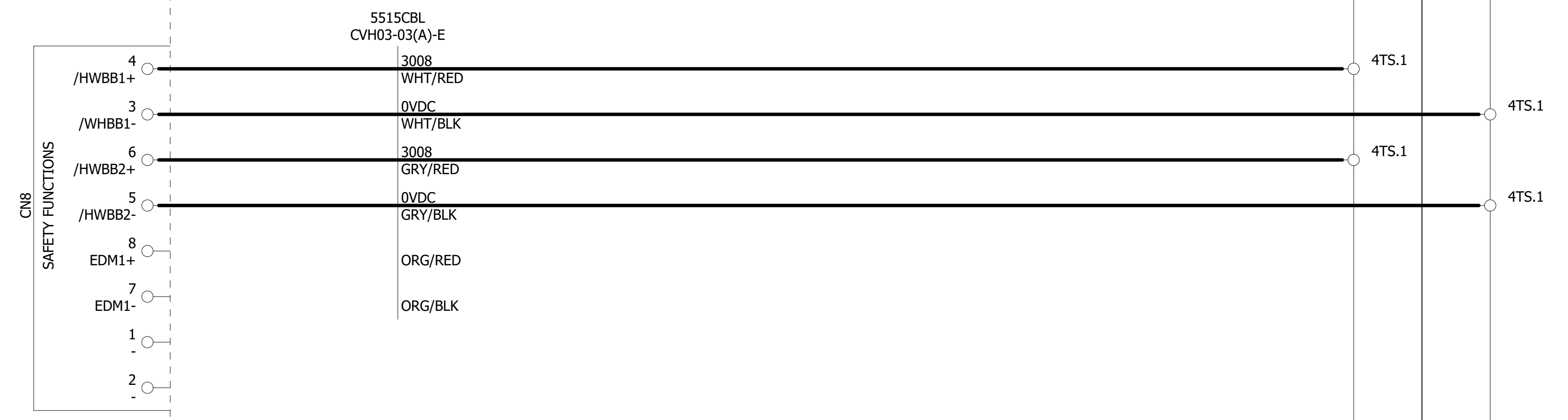
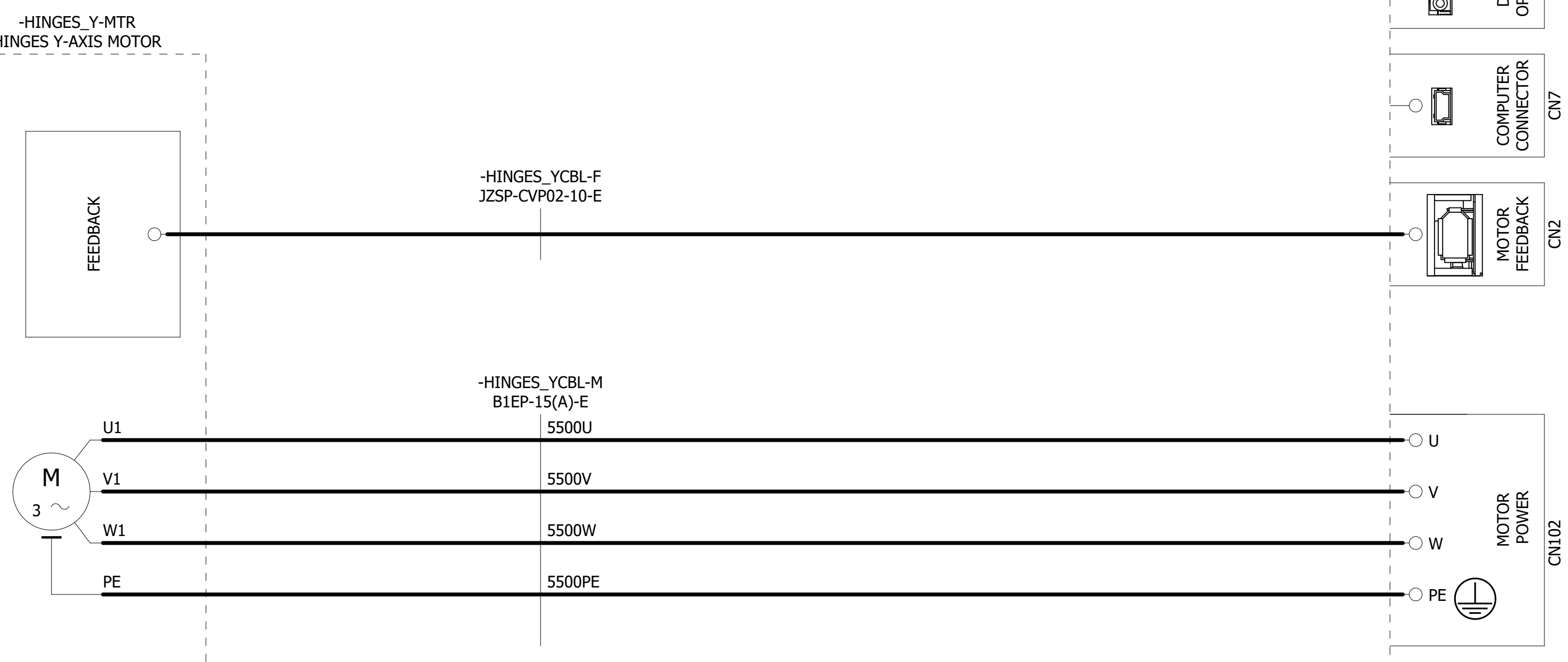
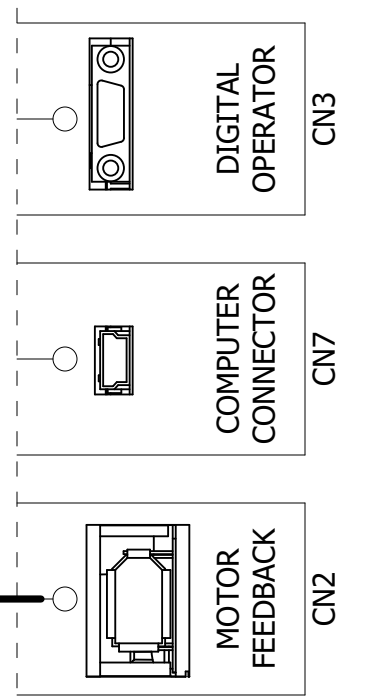
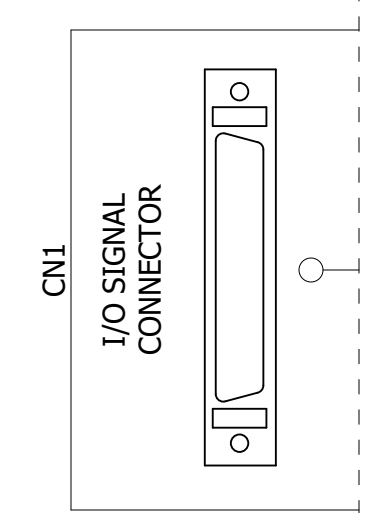
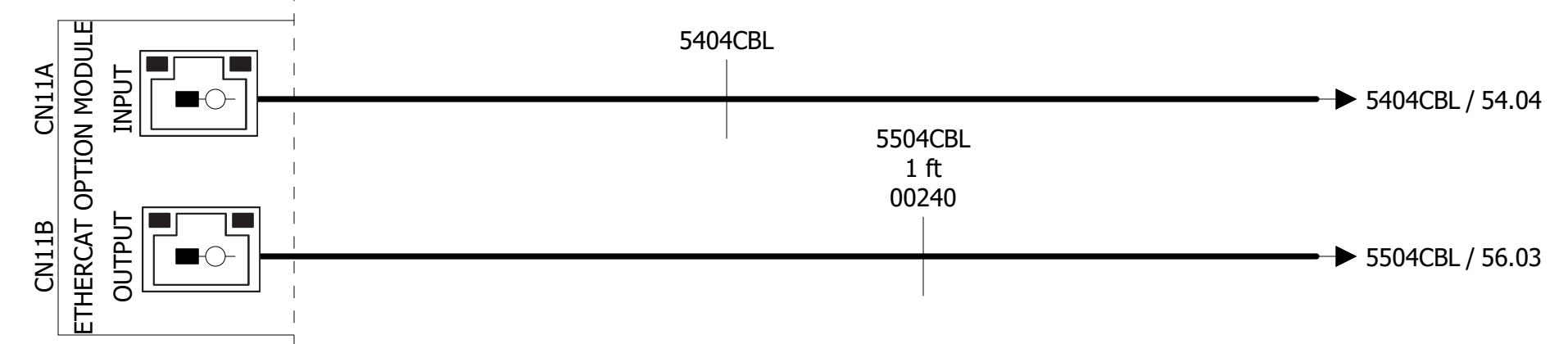
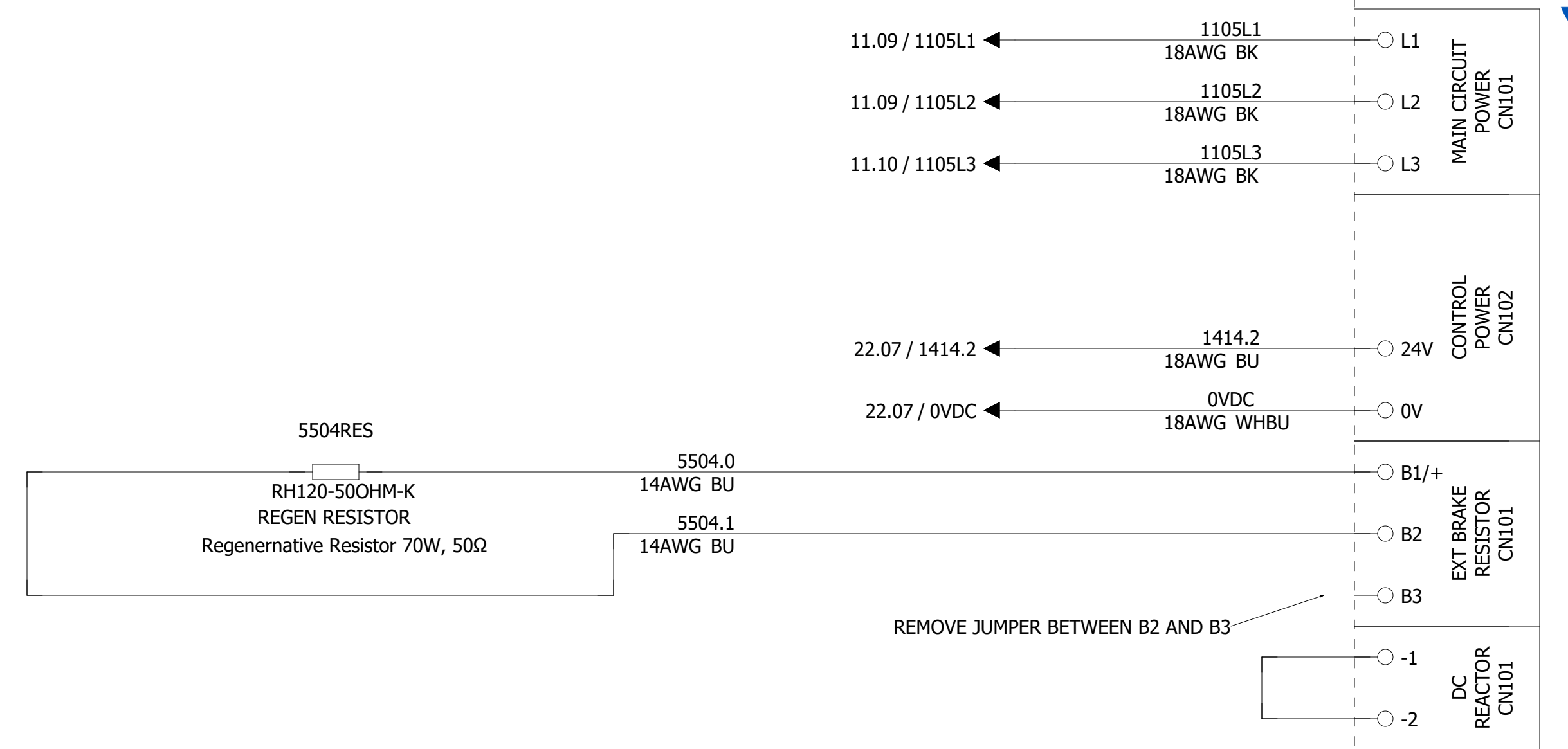
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 5400 DRV - HINGES X-AXIS DRIVE	=	+
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	DRAWING NO:	&	PREV PAGE: <<--- 53 NEXT PAGE: --->>
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5500DRV
400VAC, 2.0KW
HINGES Y-AXIS DRIVE

YASKAWA
SGDV

400V



SGDV-8R4DE1A002000200
55 Amp 2.0KW 400V With Ethercat Vn

BELOW SAFETY
24VDC
54.20 3008
54.20 2102
54.20 0VDC

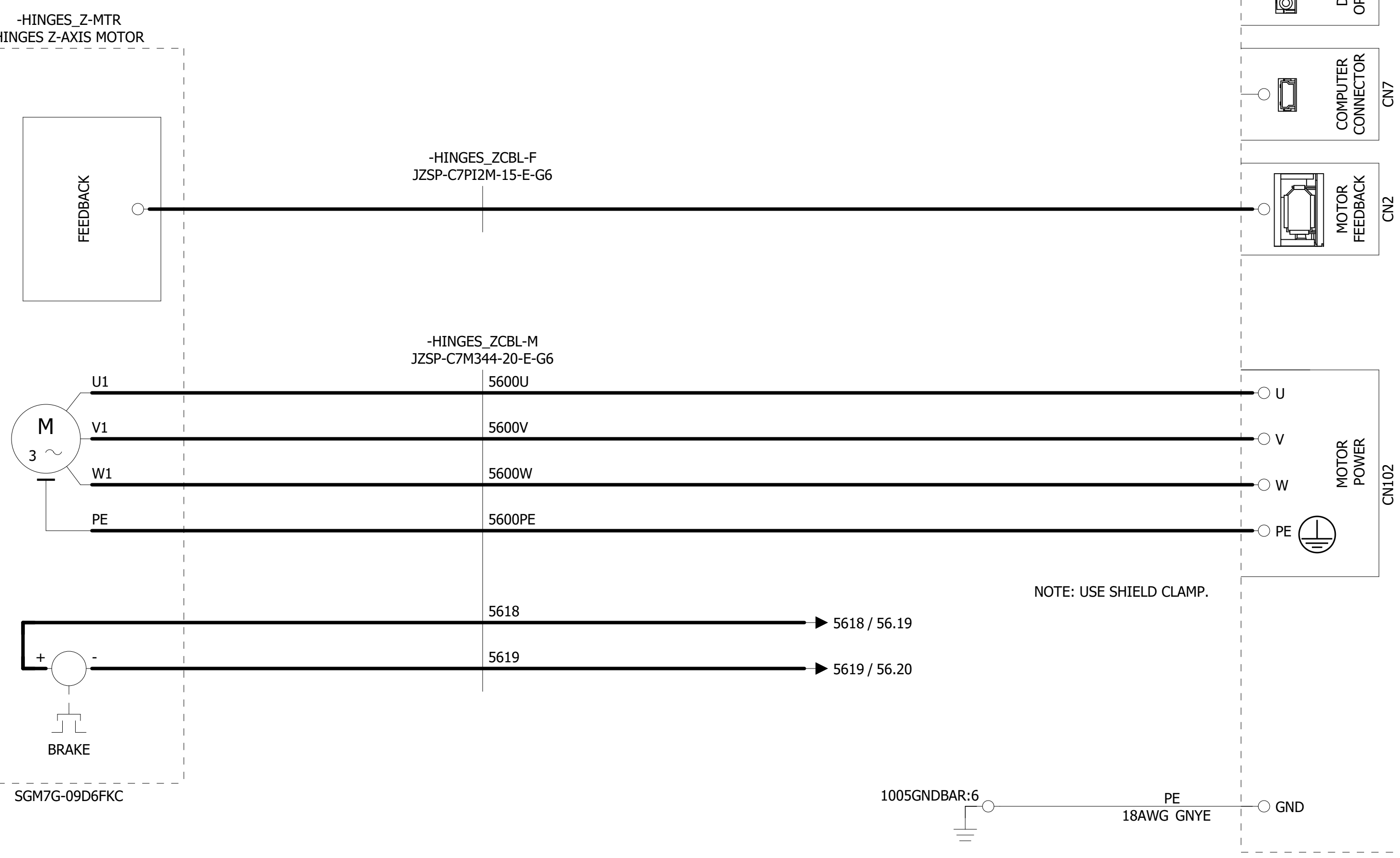
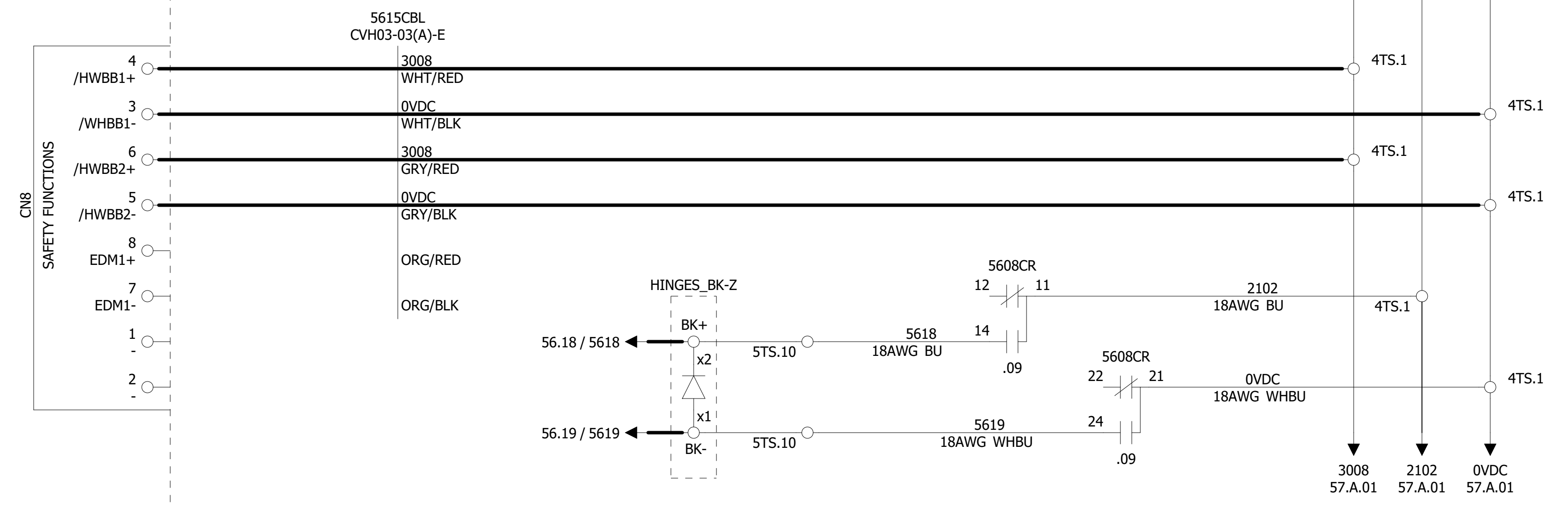
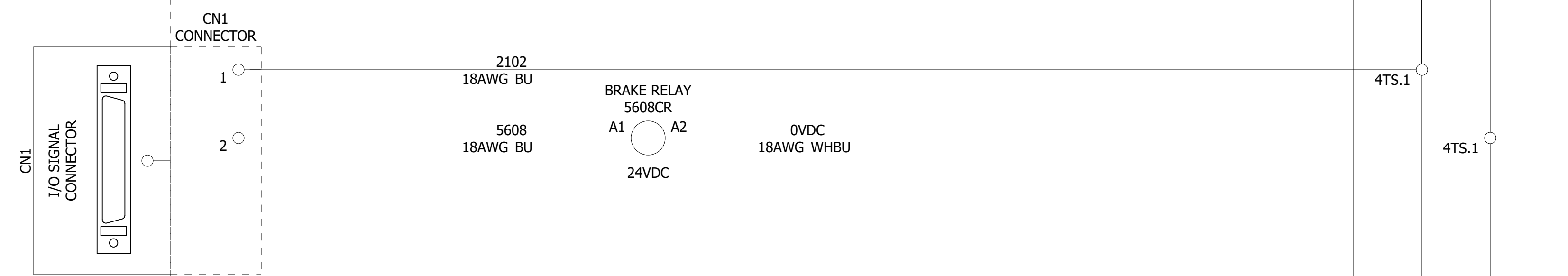
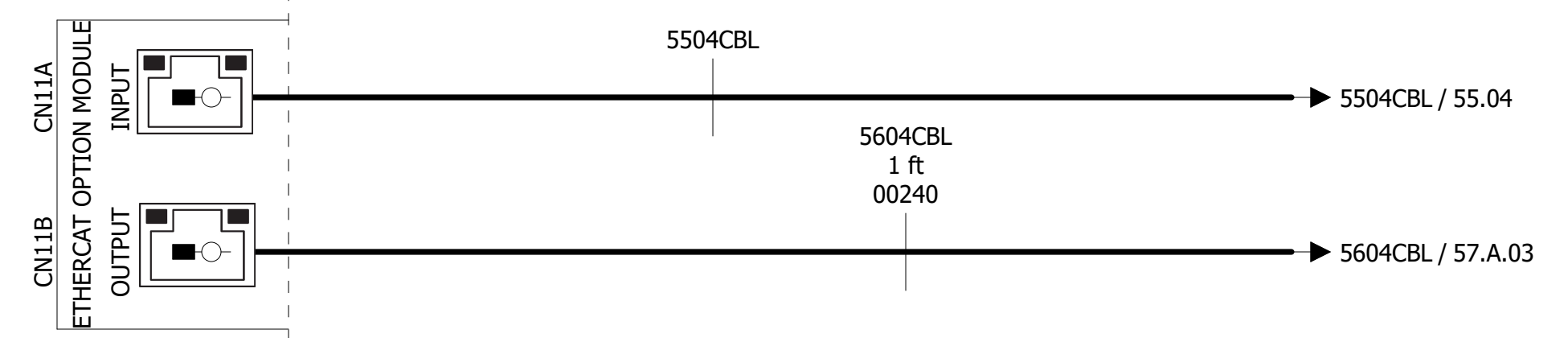
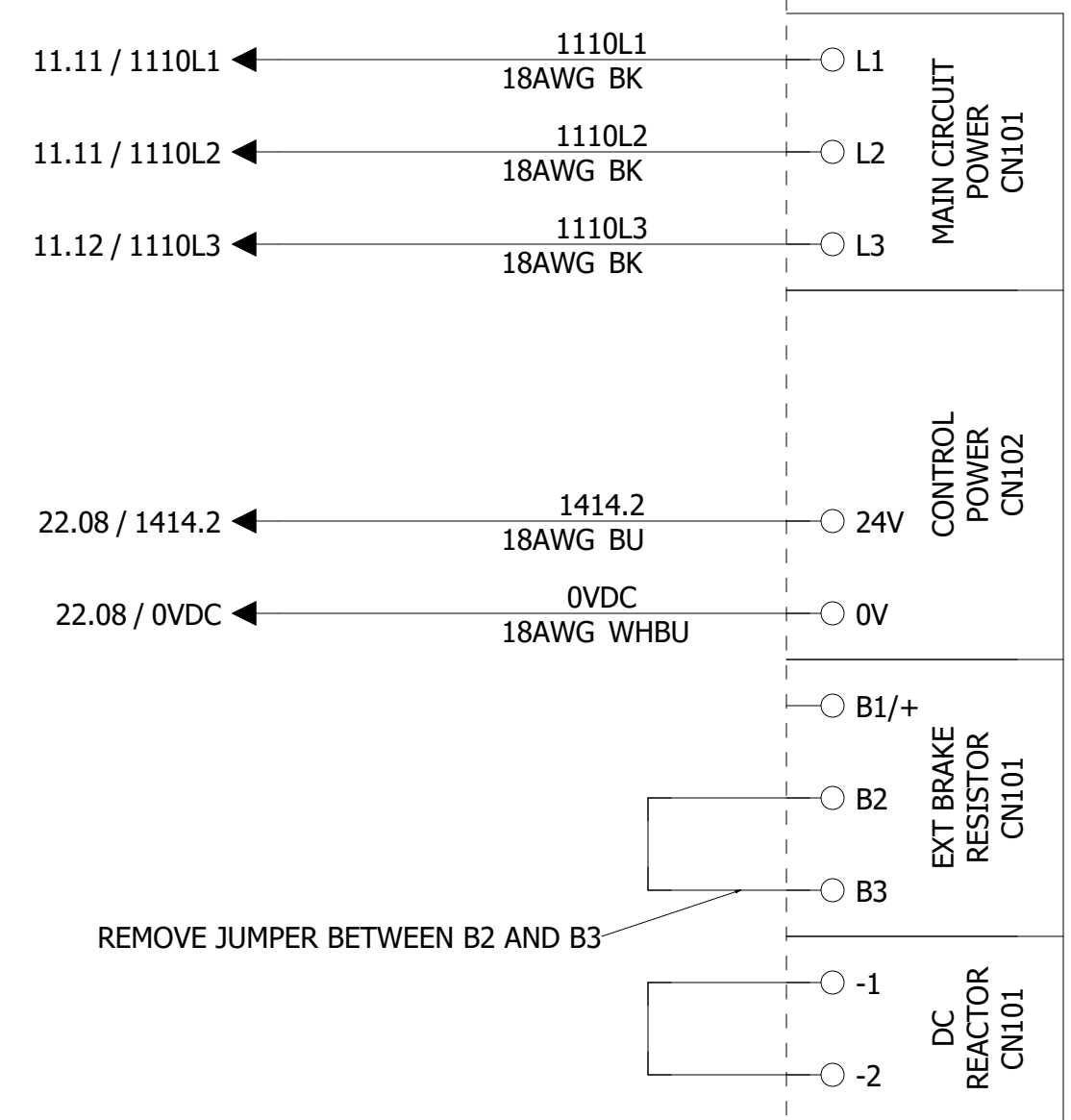
4TS.1
4TS.1
4TS.1
4TS.1
3008 56.01
2102 56.01
0VDC 56.01

COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+	
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX	5500 DRV - HINGES Y-AXIS DRIVE		PREV PAGE: <<--- 54		PAGE: ---	
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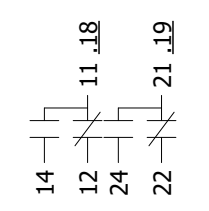
5600DRV
400VAC, 1.0kW
HINGES Z-AXIS DRIVE

YASKAWA
SGD7S
400V



SGD7S-3R5DA0B000F64
Servo drive, S5, 1.0kW 400V A/P VN

BELOW SAFETY
24VDC 55.20 3008
24VDC 55.20 2102
0VDC 55.20 0VDC

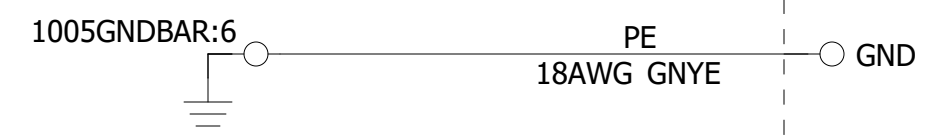
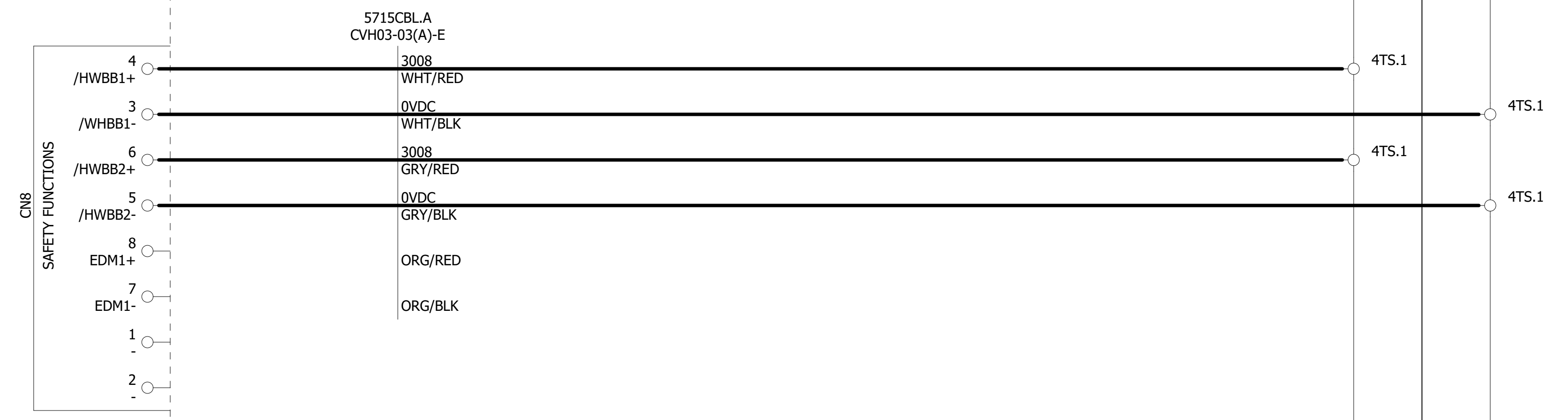
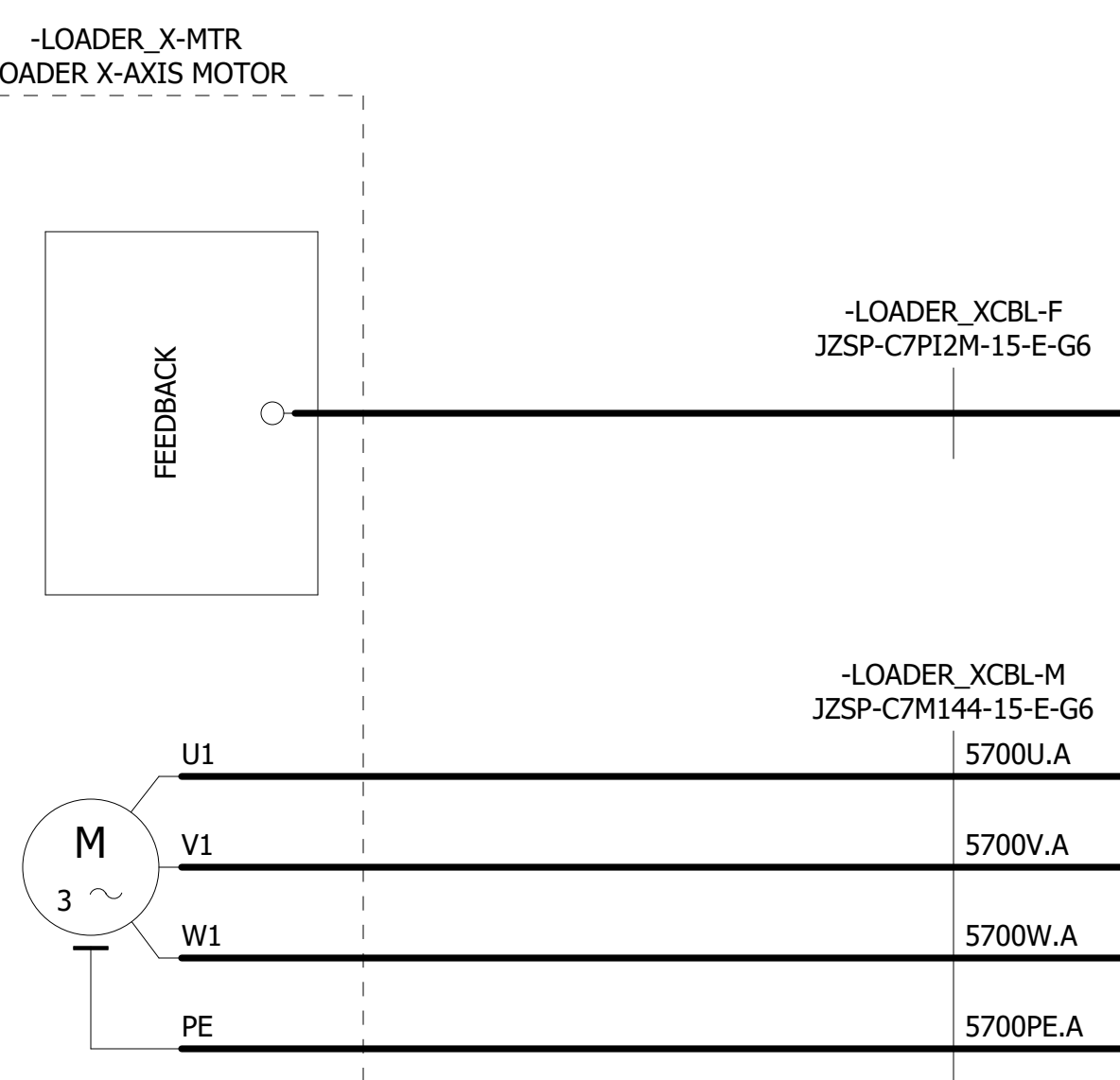
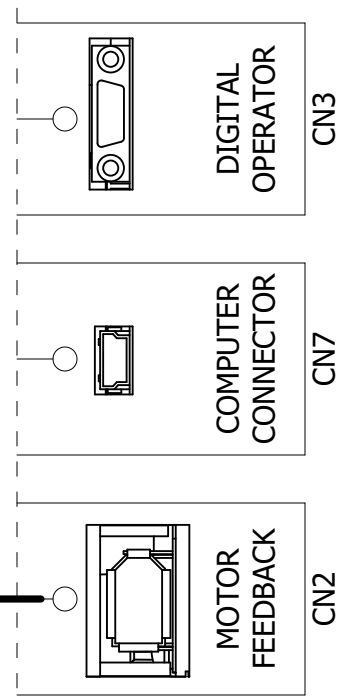
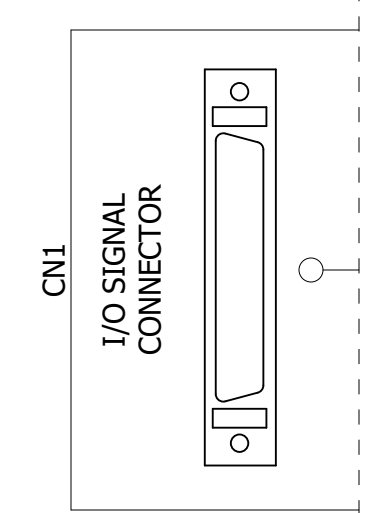
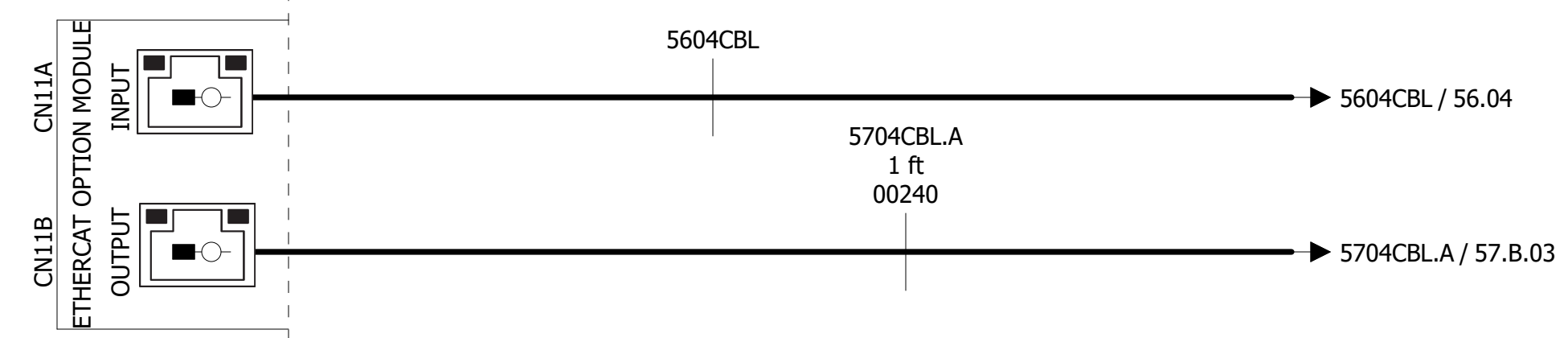
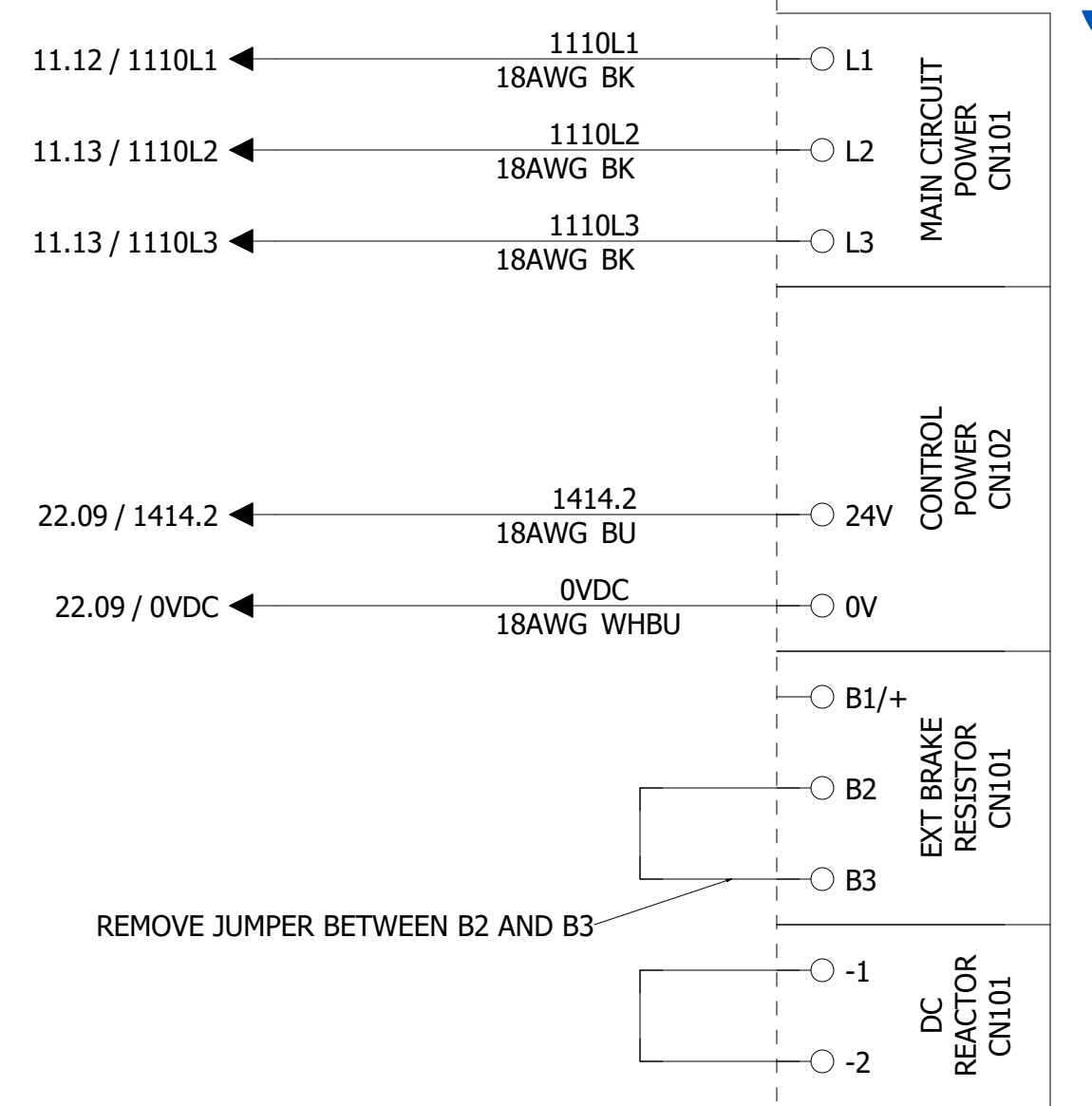


COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 5600 DRV - HINGES Z-AXIS DRIVE	=	+
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	DRAWING NO:	&	PREV PAGE: <<--- 55 NEXT PAGE: --->>
						#	57.A

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5700DRV.A
2.0KW, 400V
LOADER X-AXIS DRIVE

YASKAWA
SGD7S
400V



SGD7S-8R4DA0B00F64
S7S AMP 2.0KW 400V ETHERCAT

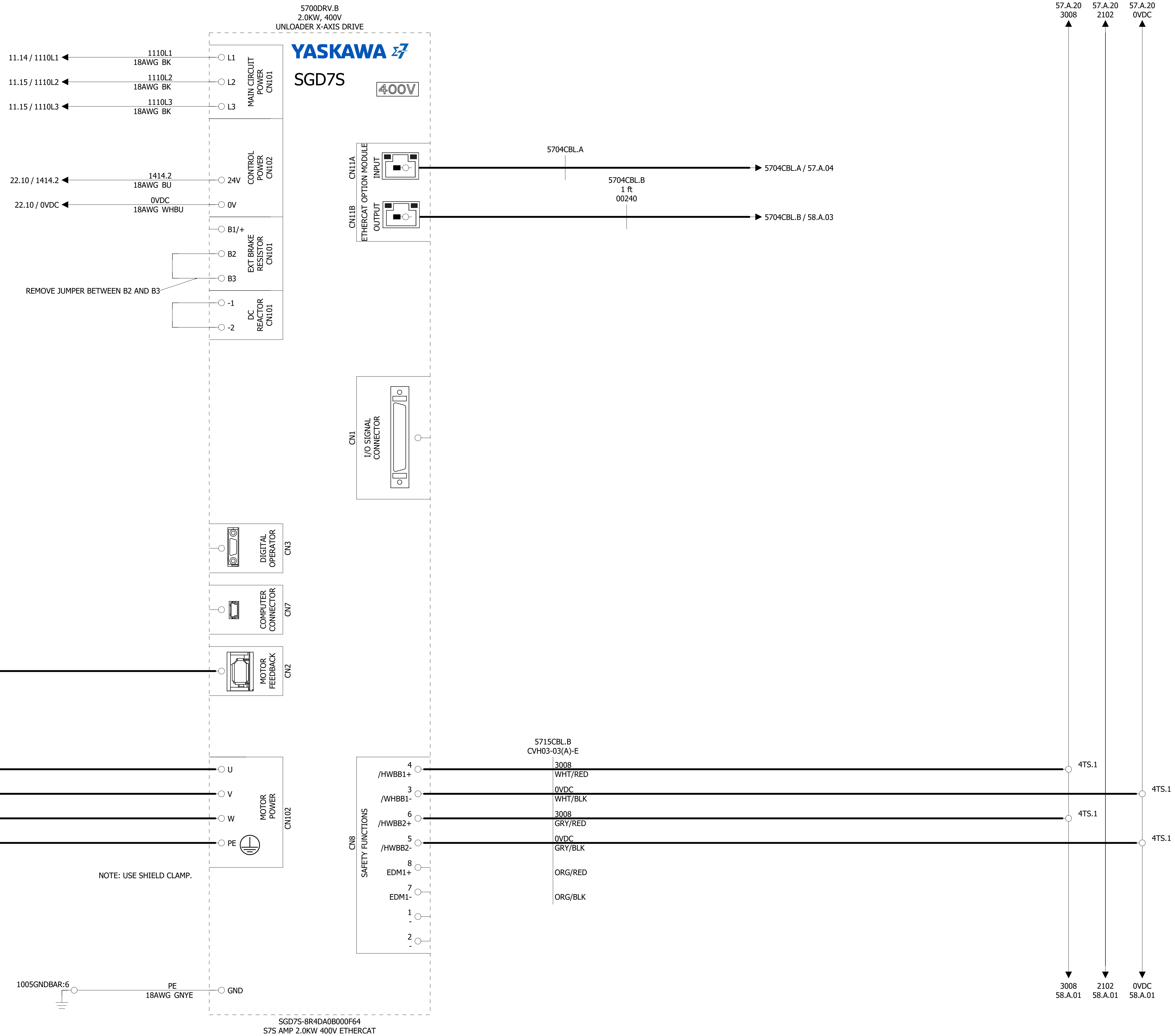
BELOW SAFETY
24VDC 56.20 3008
24VDC 56.20 2102
0VDC 56.20 0VDC

4TS.1 3008 57.B.01
 4TS.1 0VDC 57.B.01
 4TS.1 3008 57.B.01
 4TS.1 0VDC 57.B.01

COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 5700.A DRV - LOADER X-AXIS DRIVE	=	+
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	DRAWING NO:	&	PREV PAGE: <<--- 56 NEXT PAGE: --->>
						#	57.B

57.A

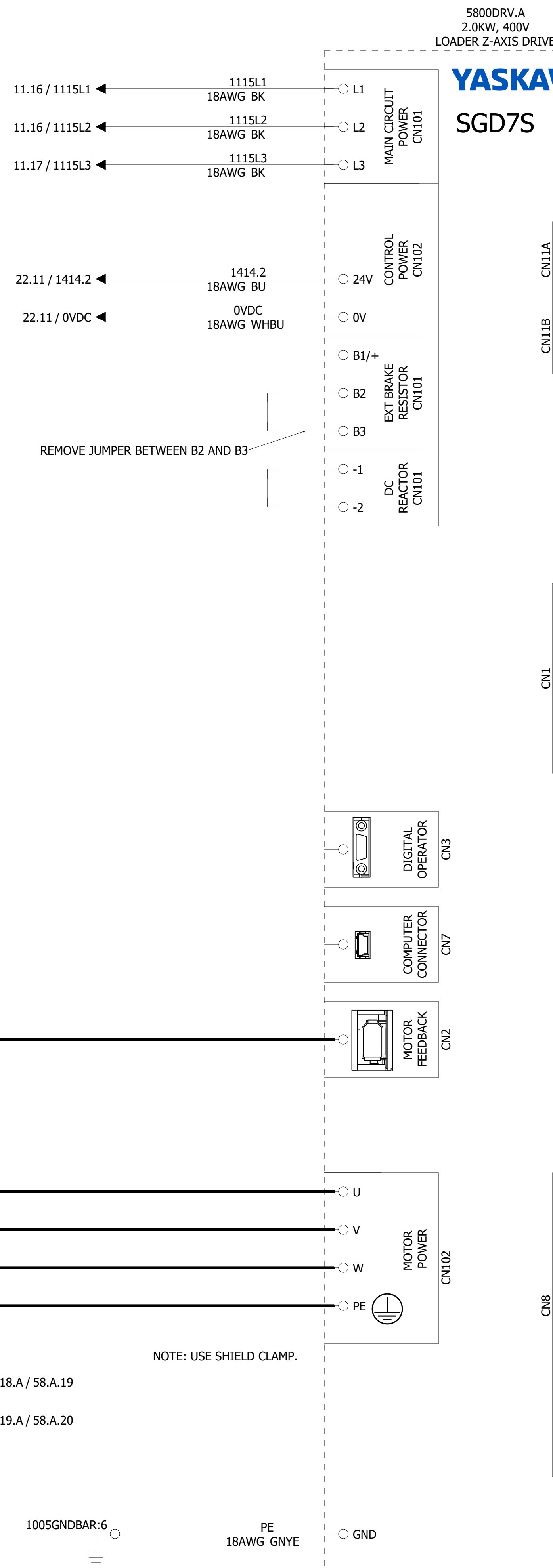
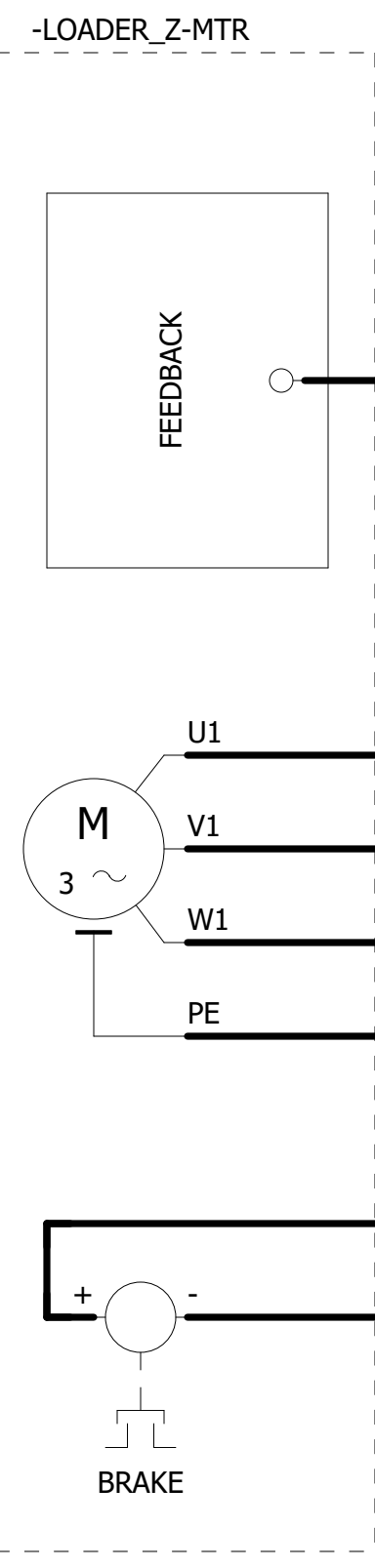
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COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 5700.B DRV - UNLOADER X-AXIS DRIVE	=	+
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	DRAWING NO:	&	PREV PAGE: <<--- PAGE: 57.A
						#	NEXT PAGE: --->>> 58.A

57.B

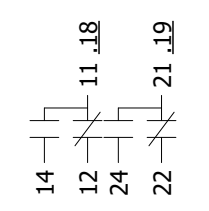
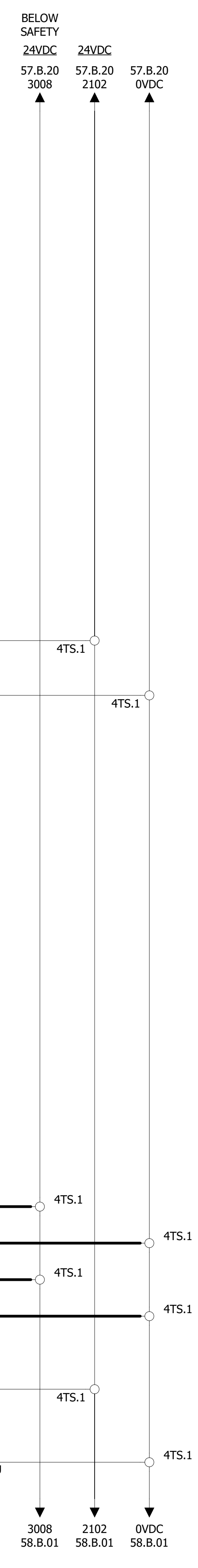
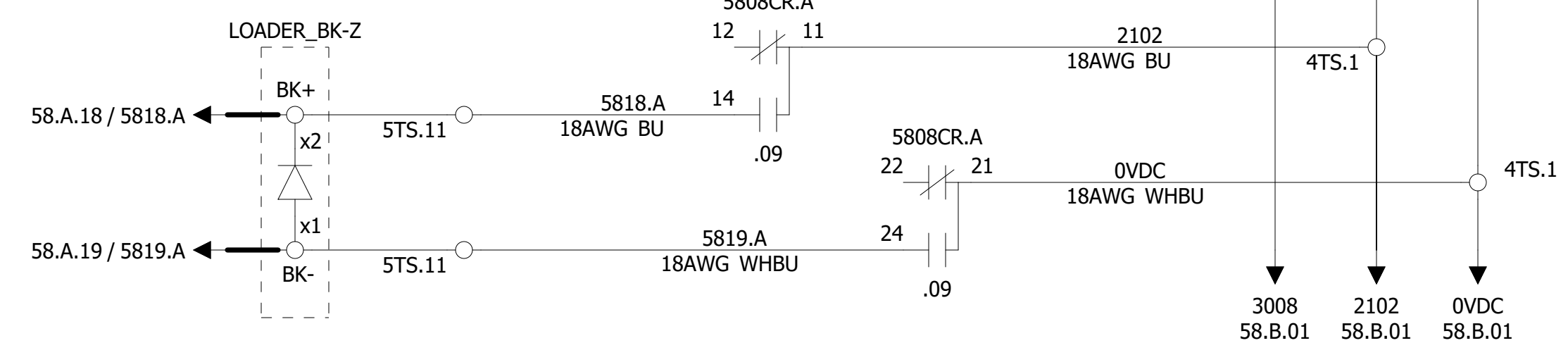
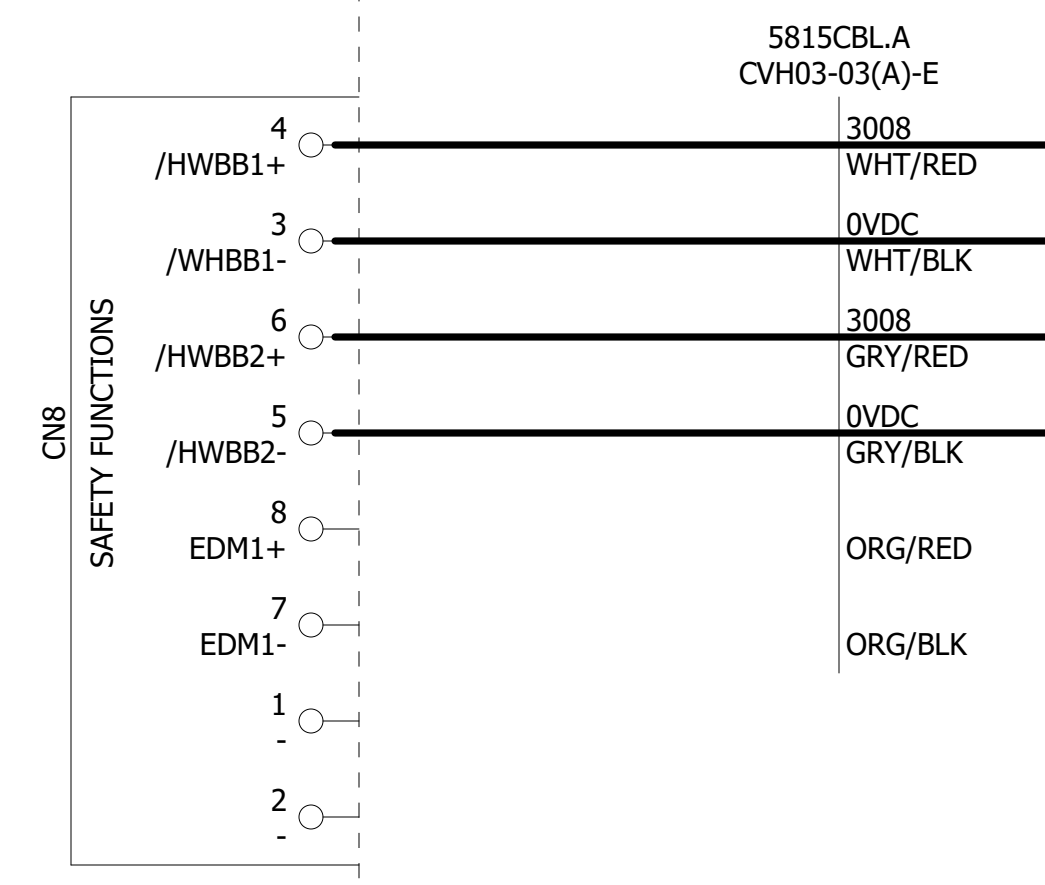
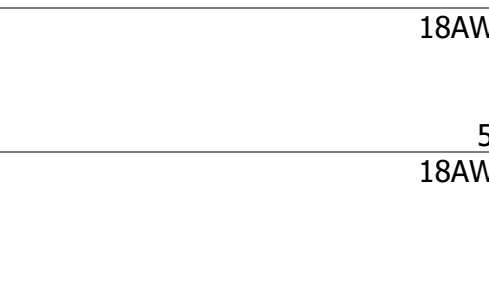
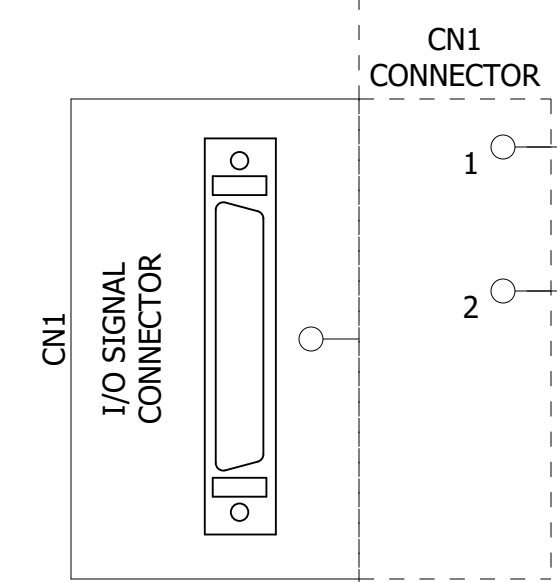
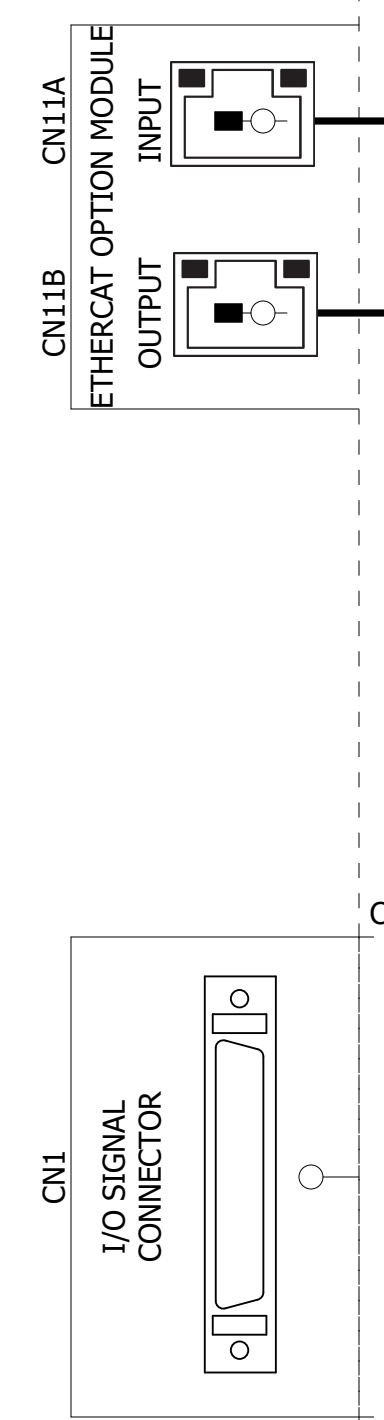
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5800DRV.A
2.0KW, 400V
LOADER Z-AXIS DRIVE

YASKAWA

SGD7S 400V



SGD7S-8R4DA0B00F64
S7S AMP 2.0KW 400V ETHERCAT

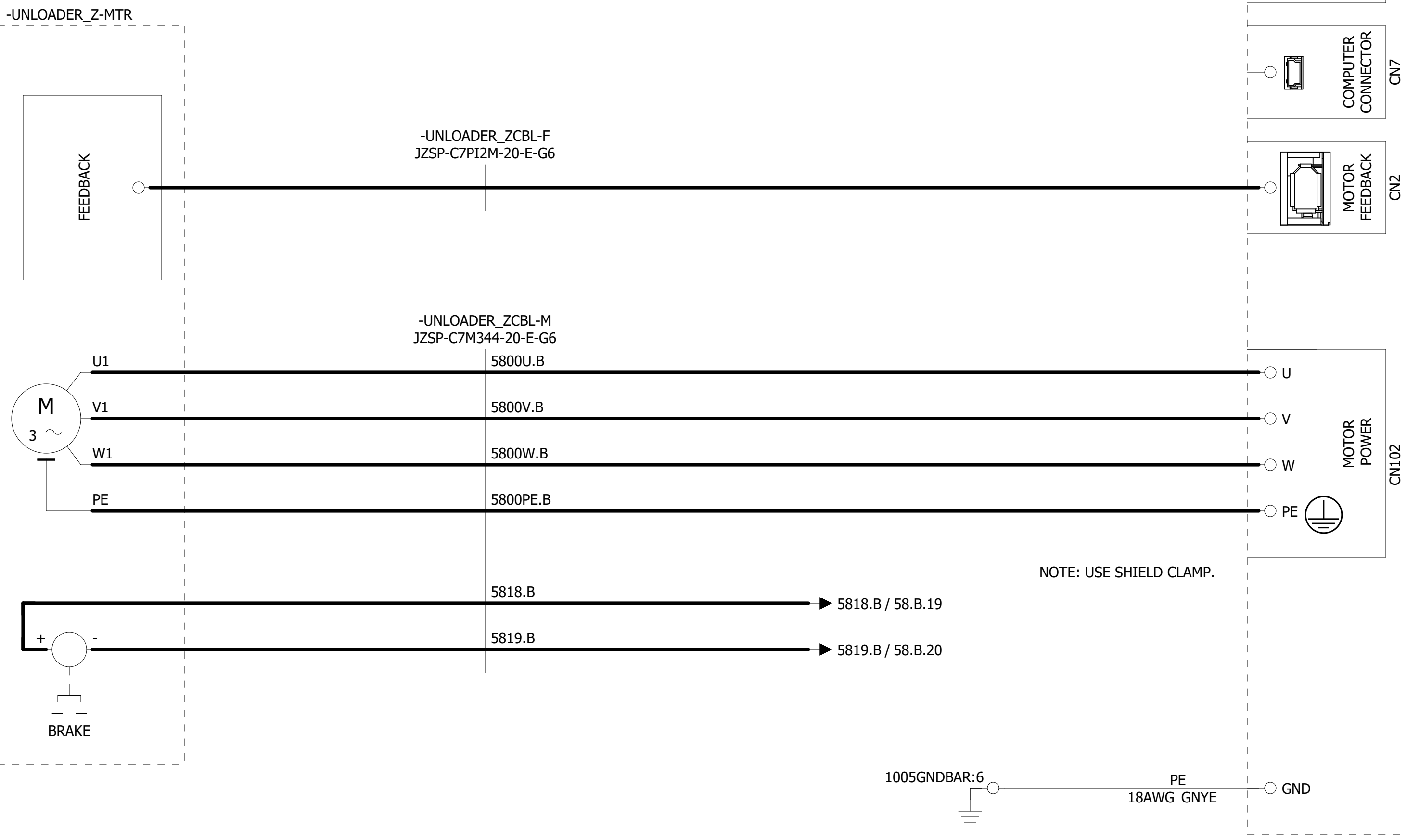
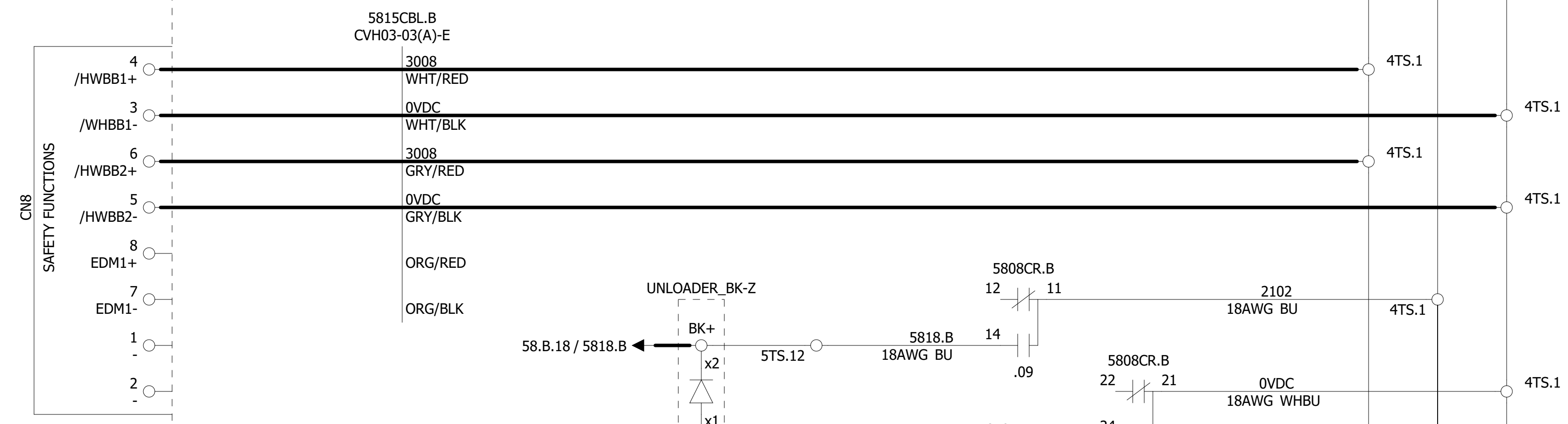
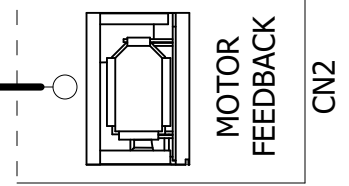
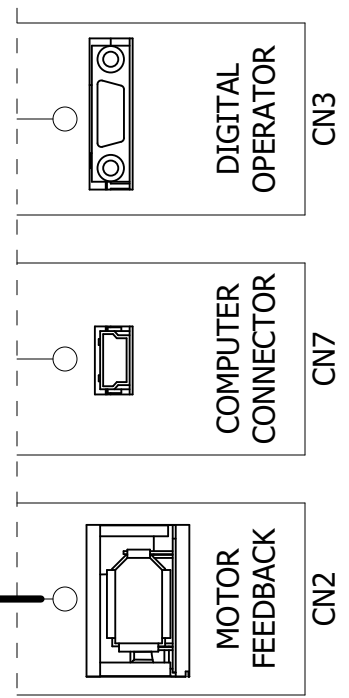
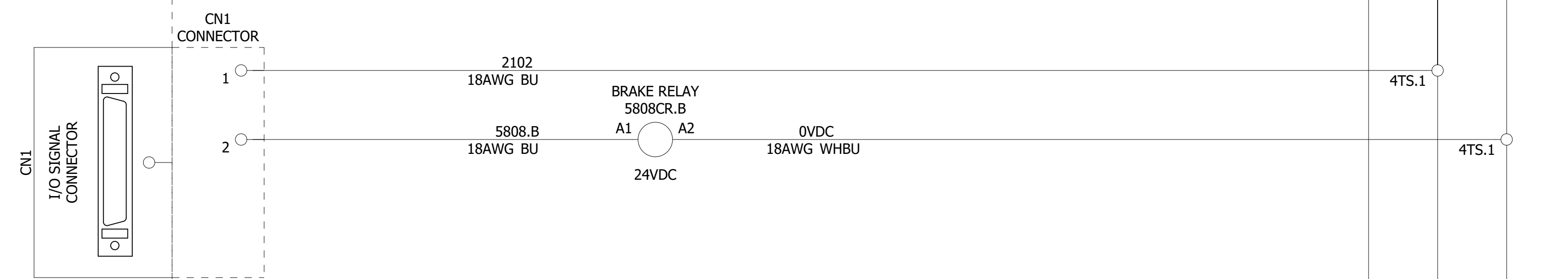
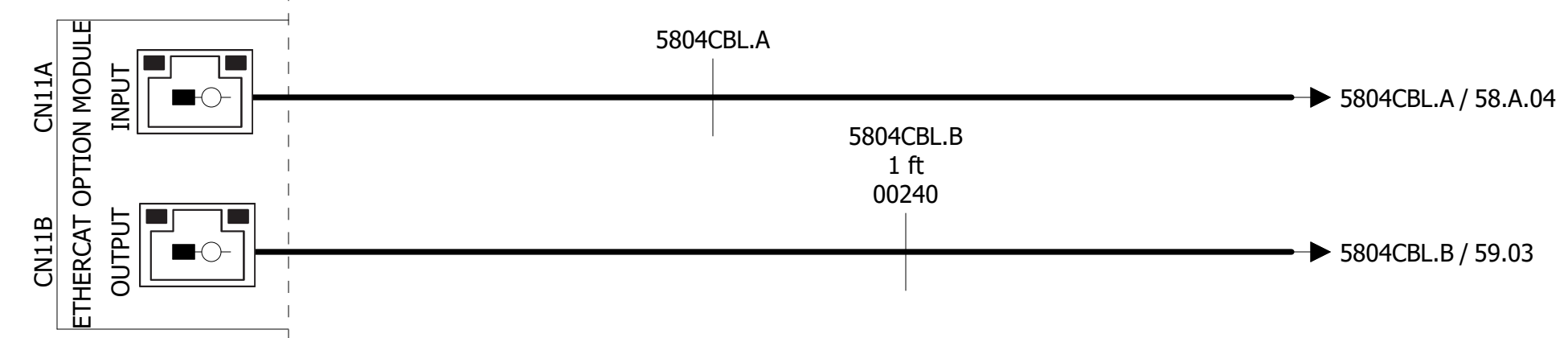
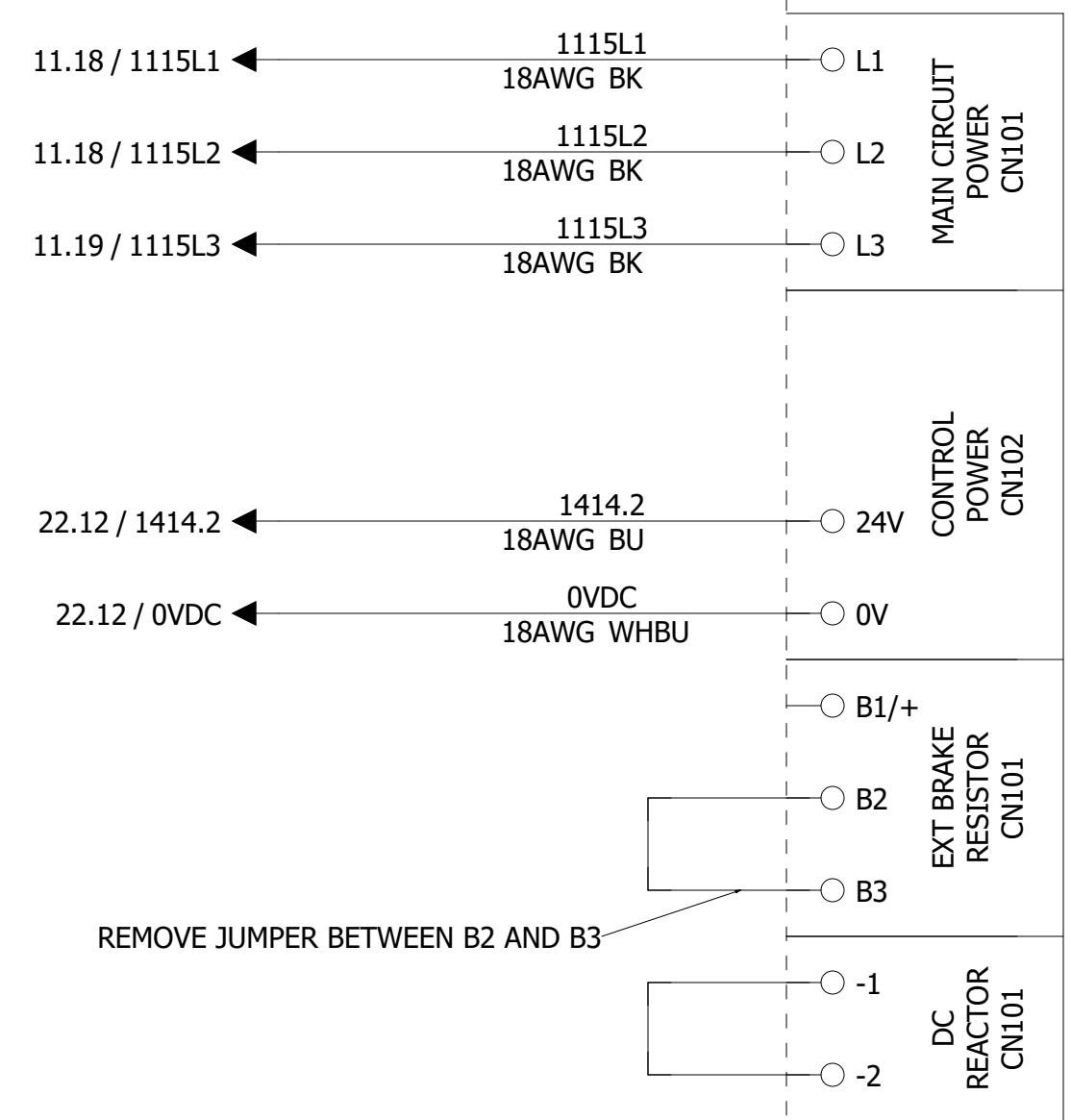
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 5800.A DRV - LOADER Z-AXIS DRIVE	=	+
DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	DEPT:	DRAWING NO:	&	PREV PAGE: <<--- PAGE:
						#	NEXT PAGE: --->>> PAGE: 57.B 58.B

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5800DRV.B
2.0KW, 400V
UNLOADER Z-AXIS DRIVE

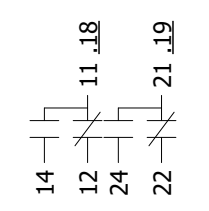
YASKAWA
SGD7S 400V



NOTE: USE SHIELD CLAMP.

SGD7S-8R4DA0B00F64
S7S AMP 2.0KW 400V ETHERCAT

BELOW SAFETY
24VDC 58.A.20 3008
24VDC 58.A.20 2102
0VDC 58.A.20 0VDC



COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 5800.B DRV - UNLOADER Z-AXIS DRIVE	=	+
DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	DEPT:	DRAWING NO:	&	PREV PAGE: <<--- PAGE: 58.A
						#	NEXT PAGE: --->>> 59

58.B

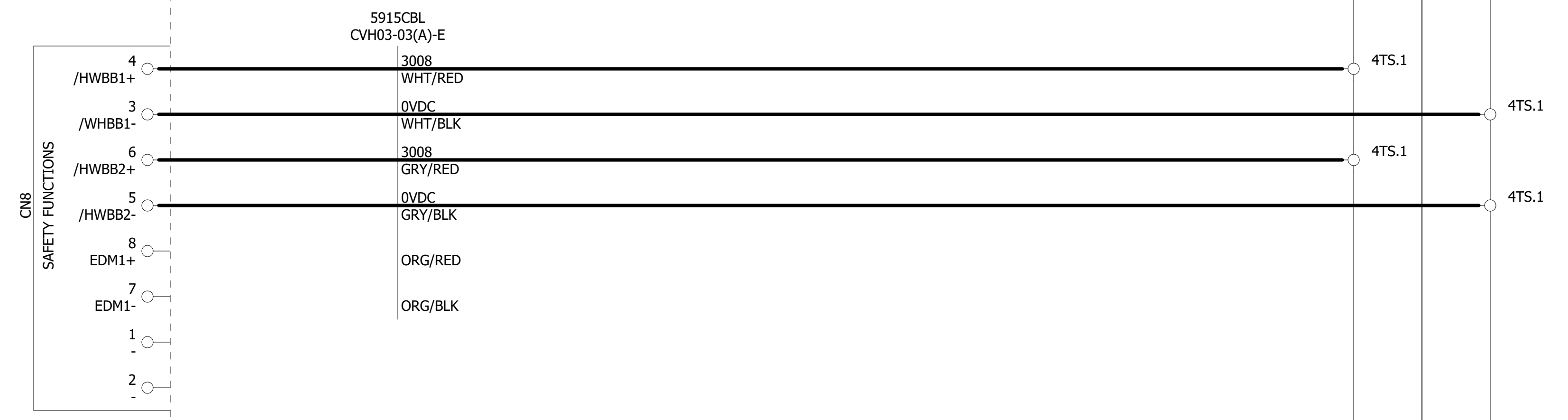
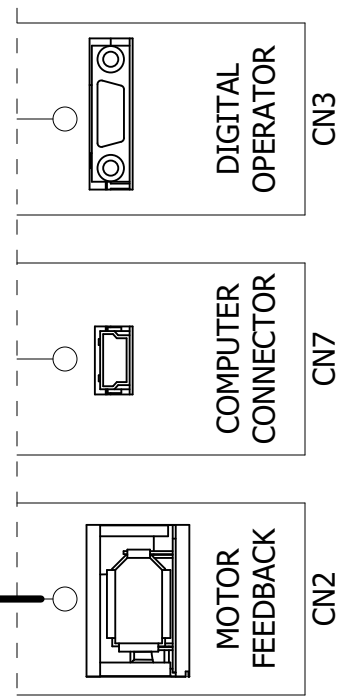
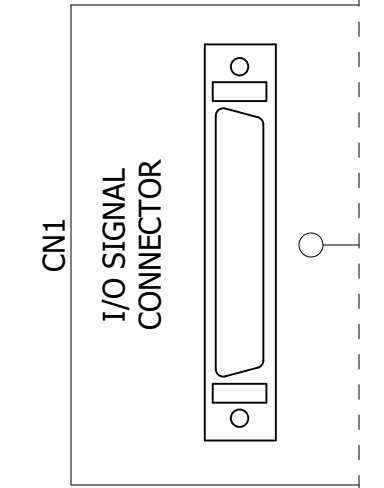
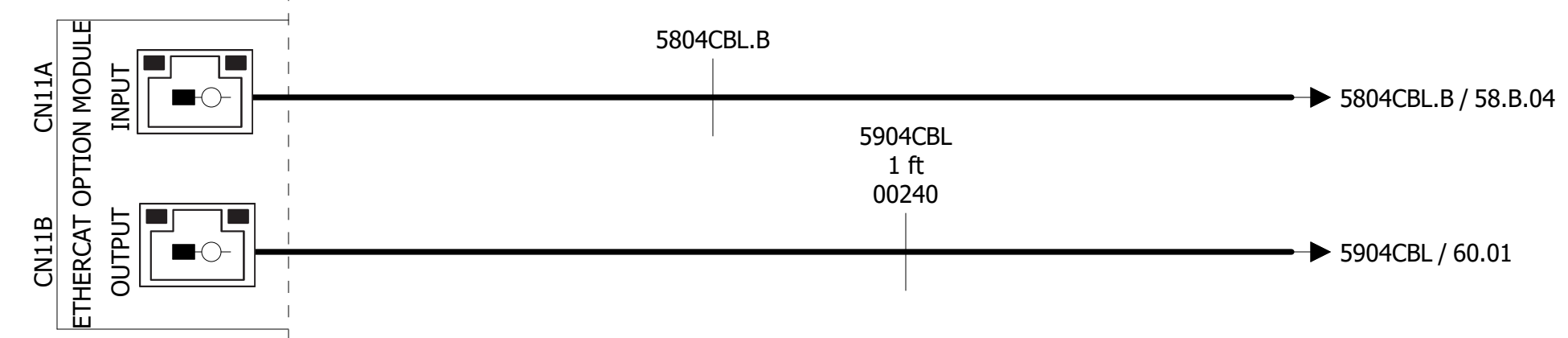
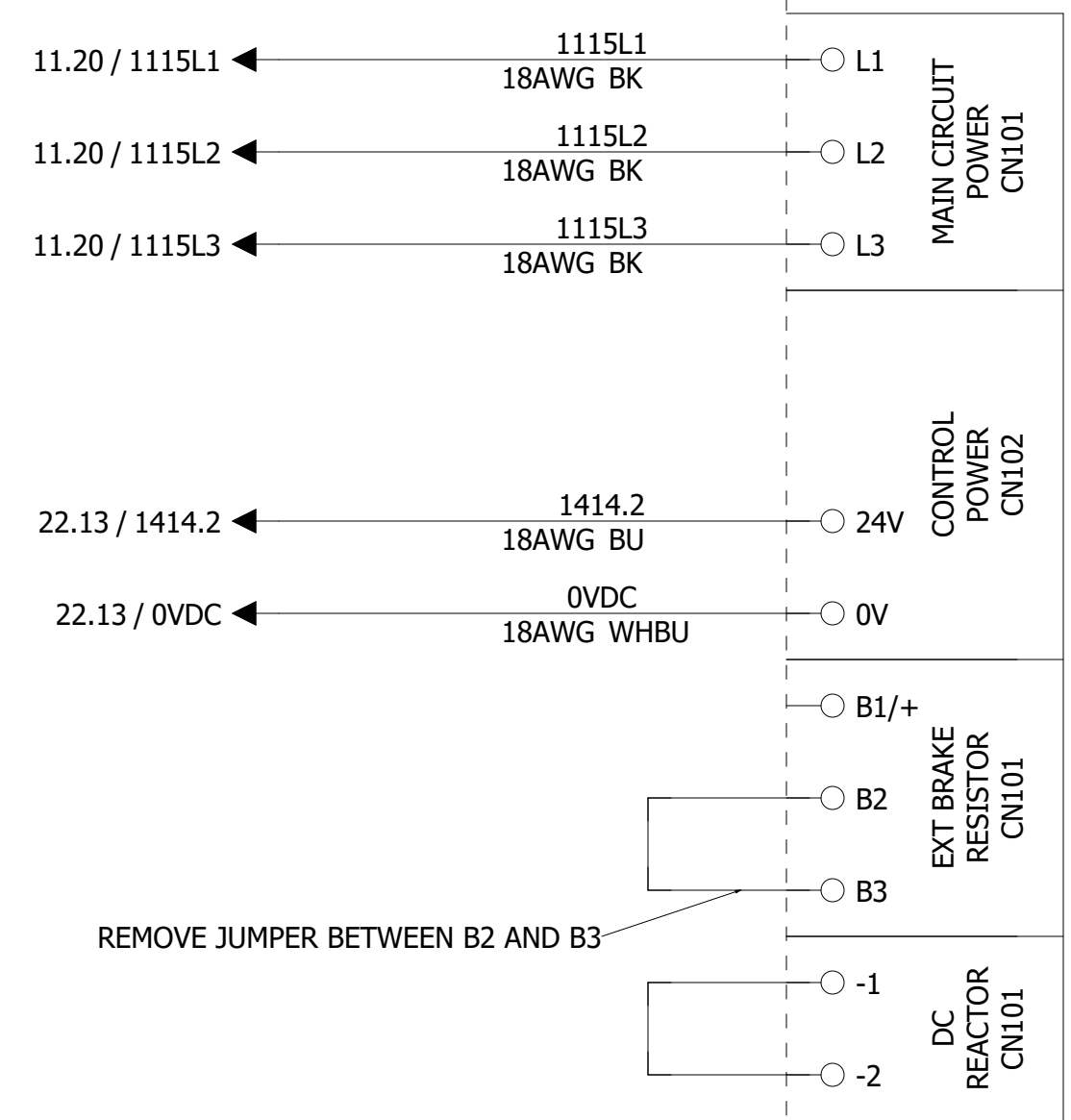
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5900DRV
400VAC, 2.0KW
LOADER C-AXIS DRIVE

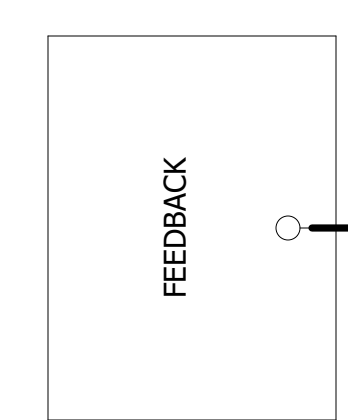
YASKAWA

SGDV

400V

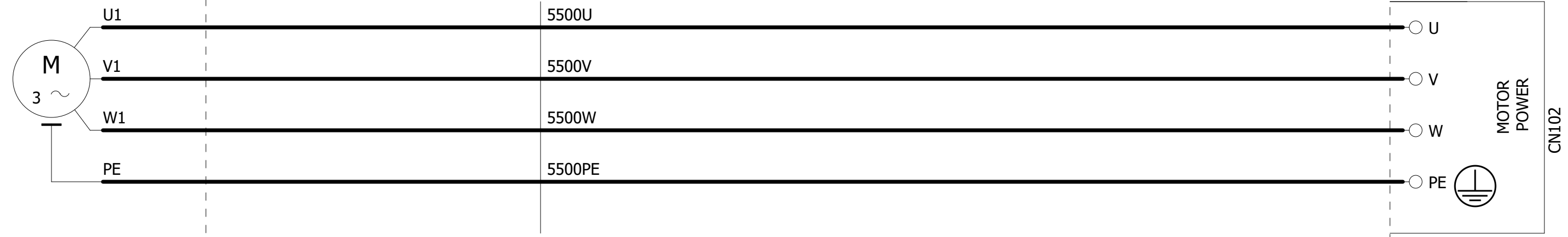


-LOADER_C-MTR
LOADER C-AXIS MOTOR



-LOADER_CCBL-F
JZSP-CVP02-10-E

-LOADER_CCBL-M
B1EP-15(A)-E

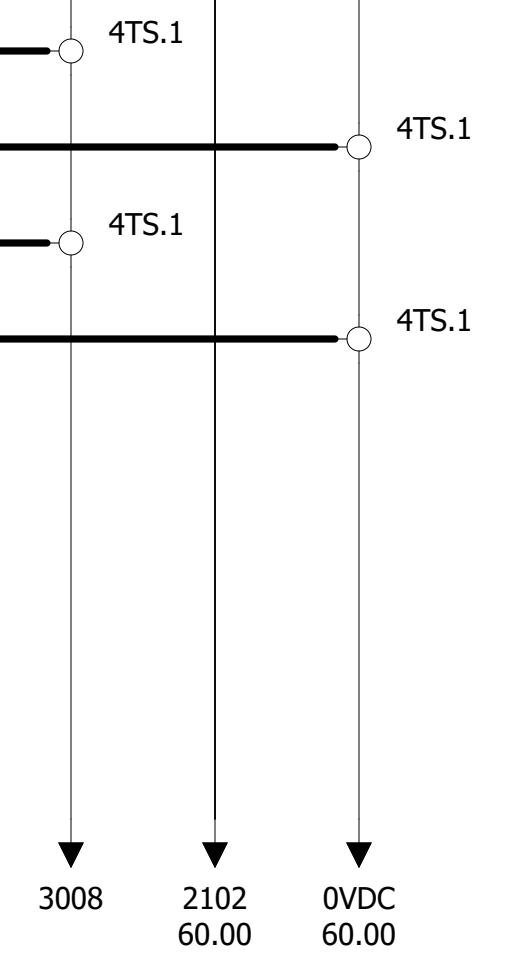


SGMGV-13D3A61



SGDV-8R4DE1A002000200
55 Amp 2.0KW 400V With Ethercat Vn

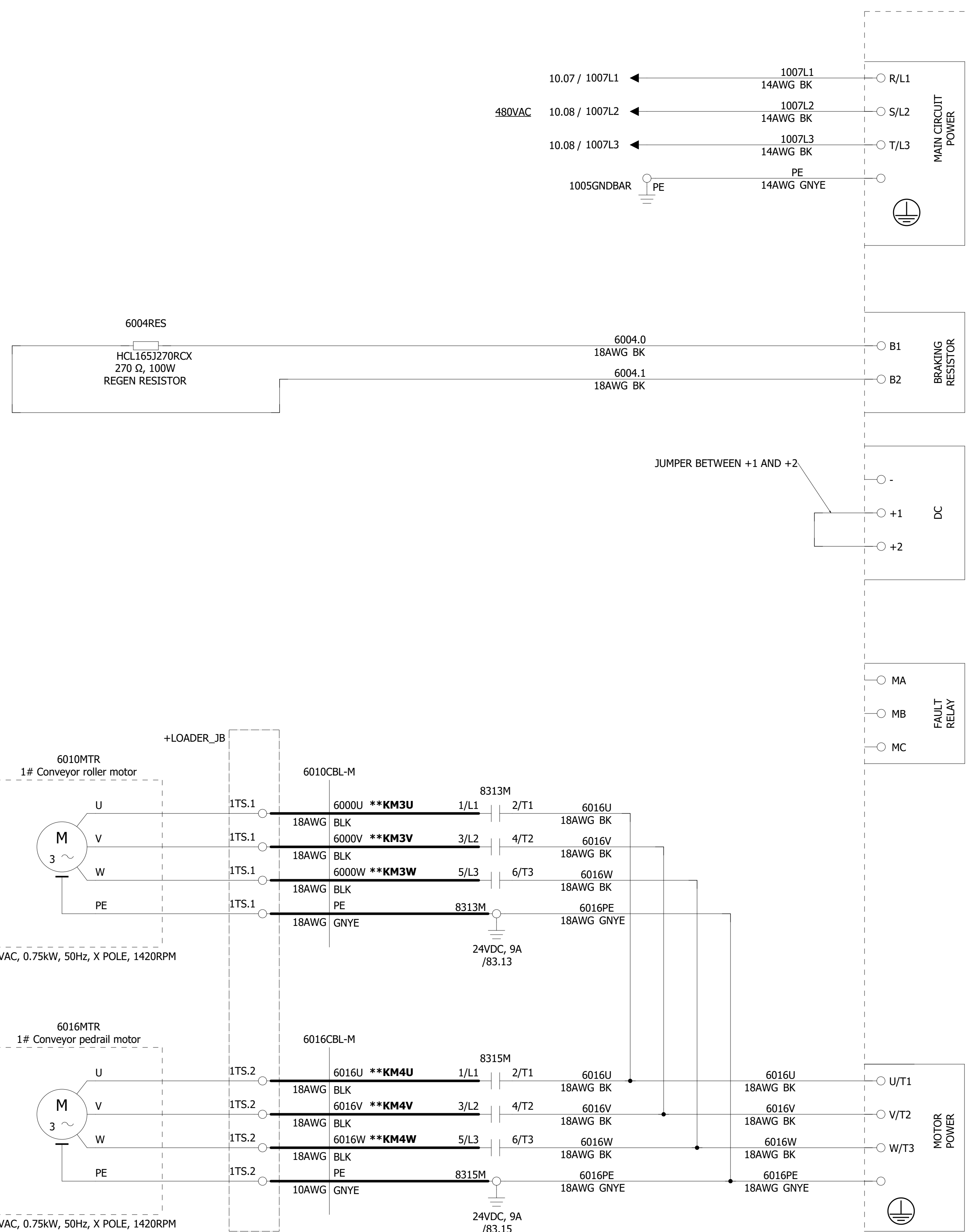
BELOW SAFETY
24VDC 24VDC
58.B.20 58.B.20 58.B.20
3008 2102 0VDC



COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX		5900 DRV - LOADER C-AXIS DRIVE		PREV PAGE: <<---		PAGE: 58.B	
								MACH. NAME: ROUTER		DRAWING NO:		NEXT PAGE: ---->>		60		

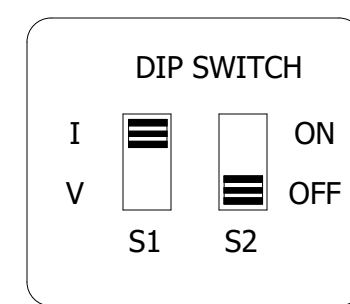
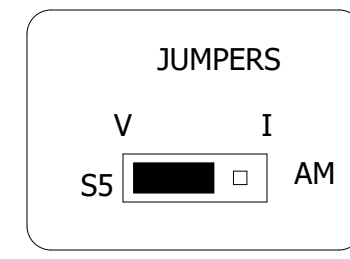
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6000DRV
SPINDLE DRIVE
192.168.xxx.xxx



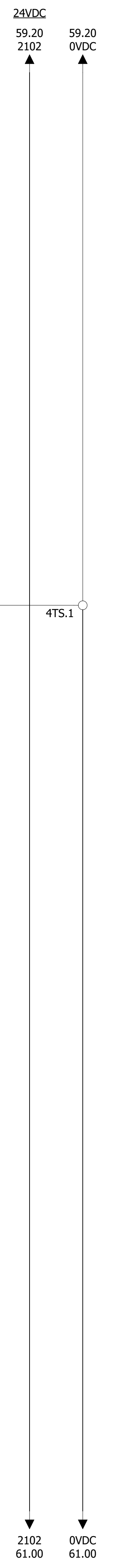
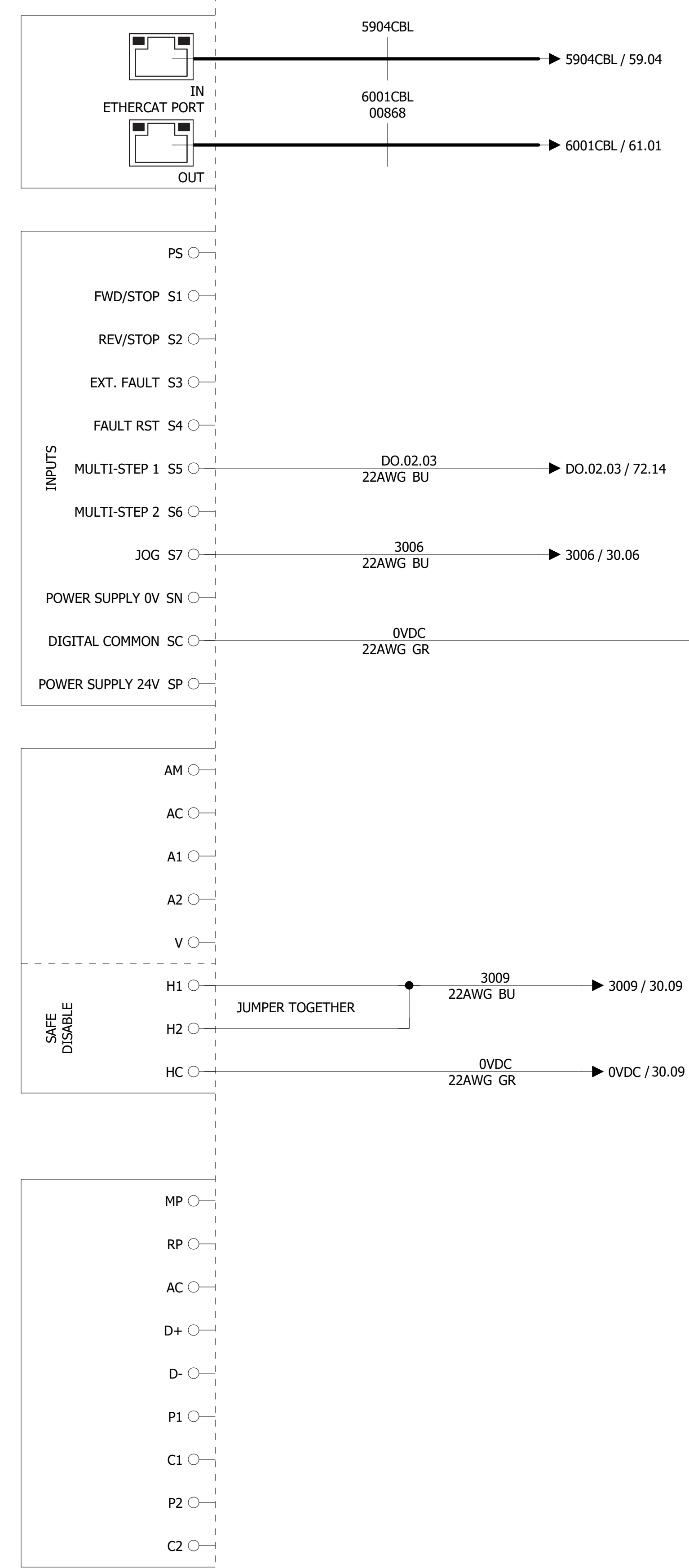
YASKAWA

GA500



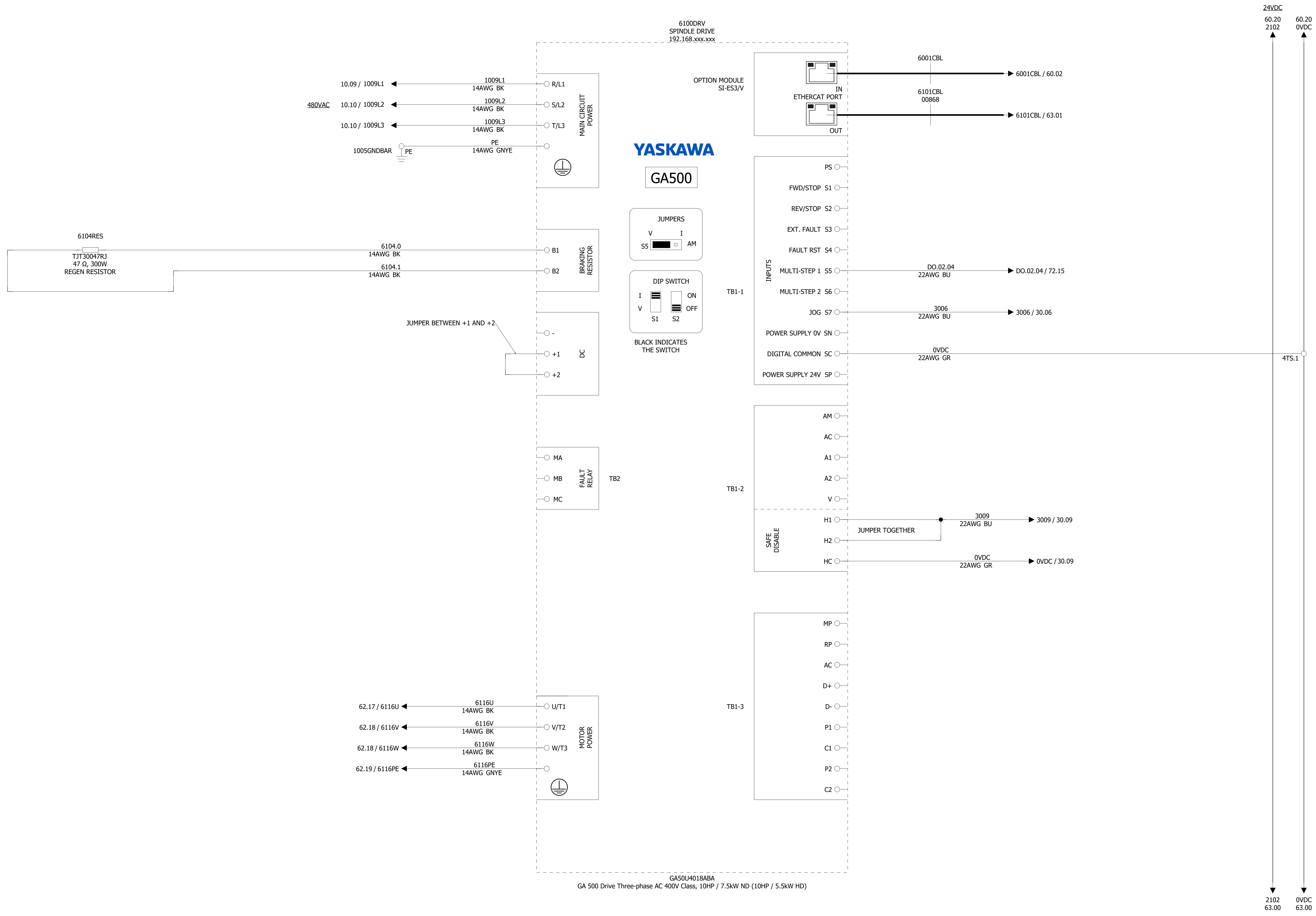
BLACK INDICATES THE SWITCH

GA50U4005ABA
GA 500 Drive Three-phase AC 400V Class, 3HP / 2.2kW ND (3HP / 1.5 HD)



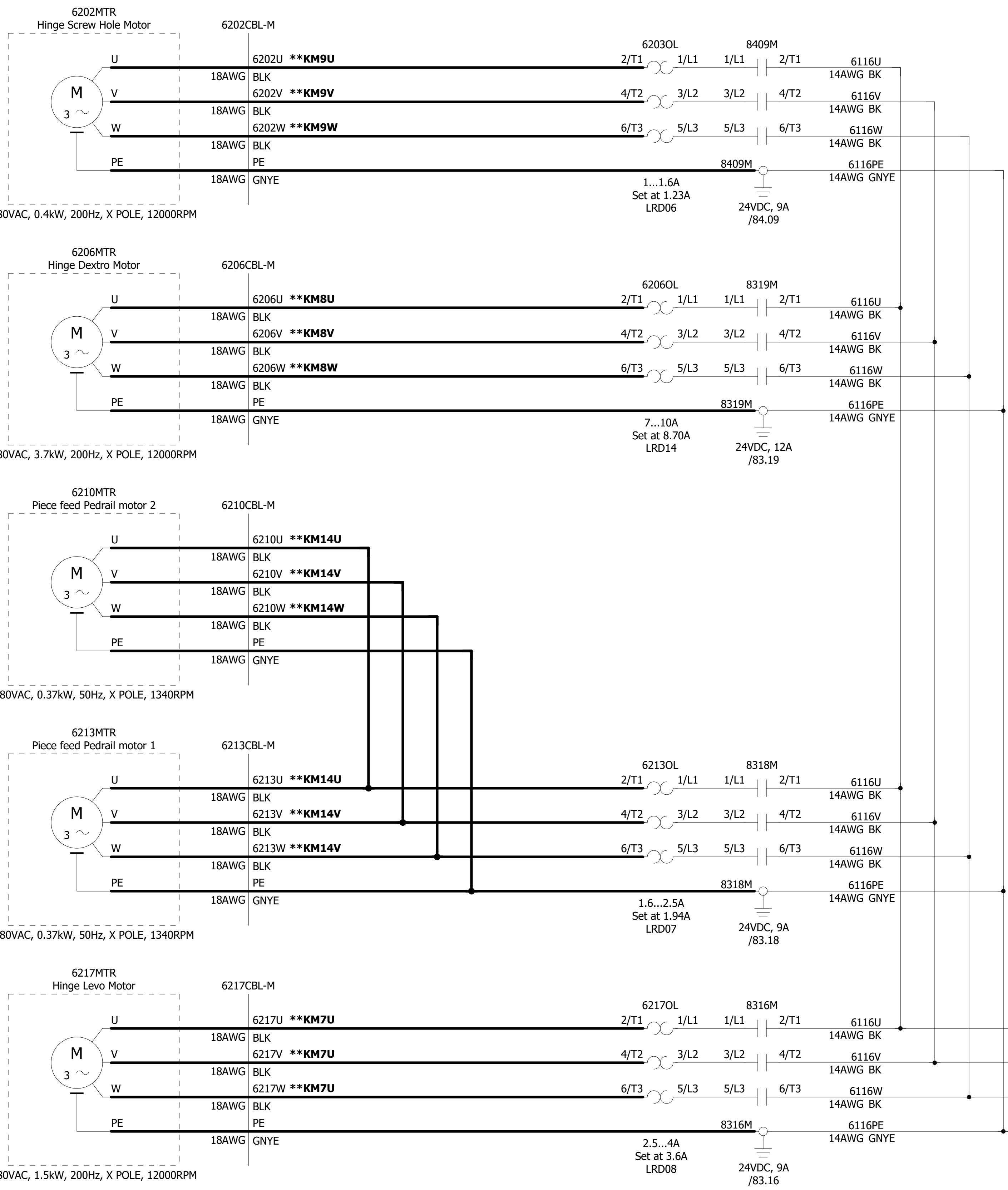
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	= + & #	PREV PAGE: <<--- 59 NEXT PAGE: --->> 61	PAGE:
DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	DEPT:	OP. NO:			
				SUPPLIER NO: XXXXXX				
				MACH. NAME: ROUTER				

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COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	DEPT:	OP. NO:	STA. NO:	DRAWING NO:
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				MACH. NAME: ROUTER		NEXT PAGE: ---->>	62

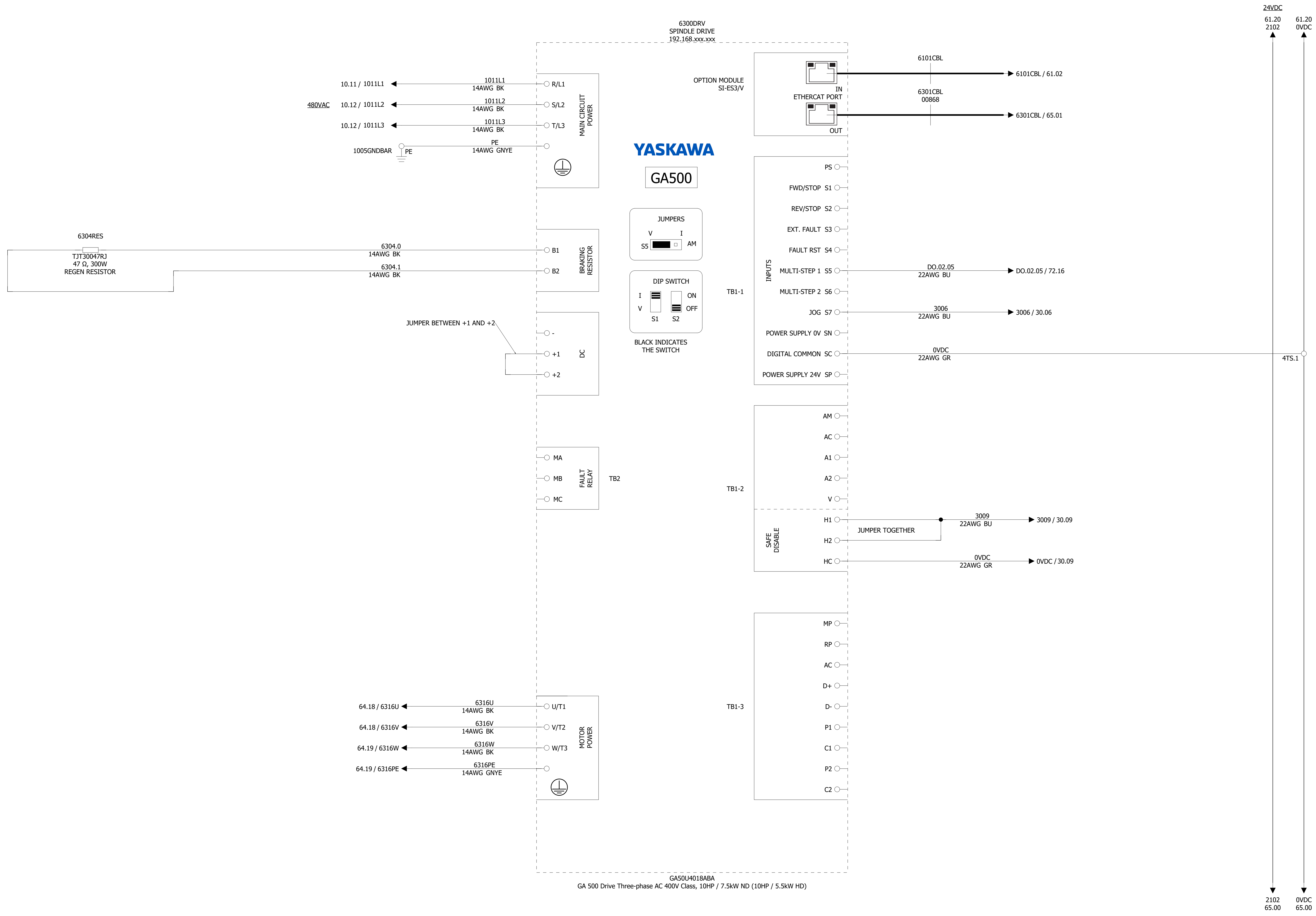
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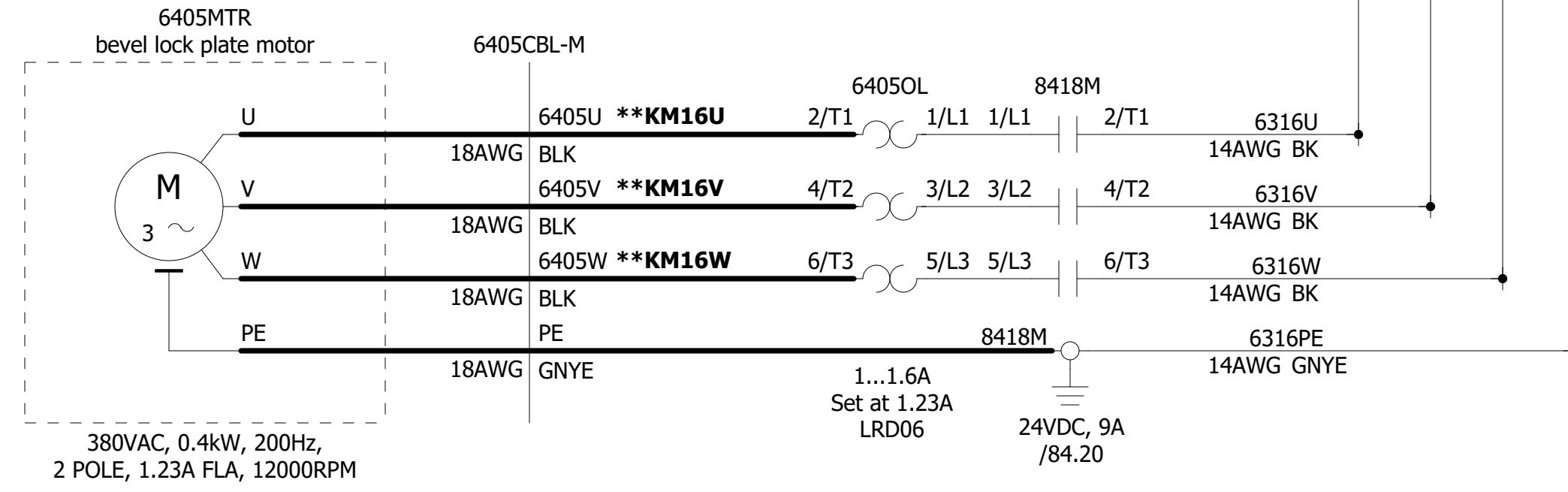
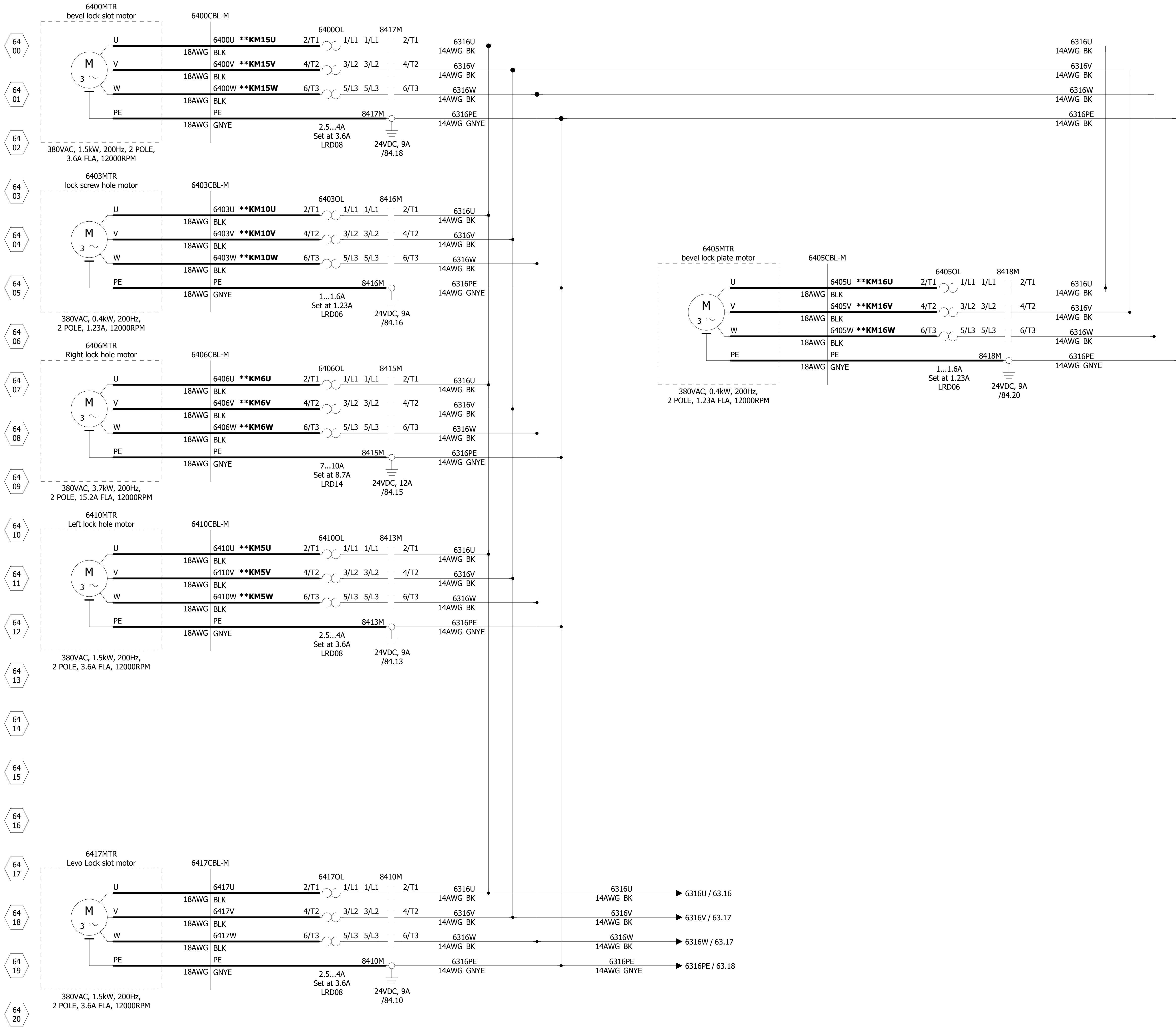
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14AWG BK
6113L2
14AWG BK
6113L3
14AWG BK
6116PE
14AWG GNYE
6116U
14AWG BK
6116V
14AWG BK
6116W
14AWG BK
6116PE
14AWG GNYE
6116U / 61.16
6116V / 61.17
6116W / 61.17
6116PE / 61.18

COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX MACH. NAME: ROUTER	NAME: ROUTER 6200 MOTORS			
DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	DEPT:	OP. NO:	STA. NO:	DRAWING NO:

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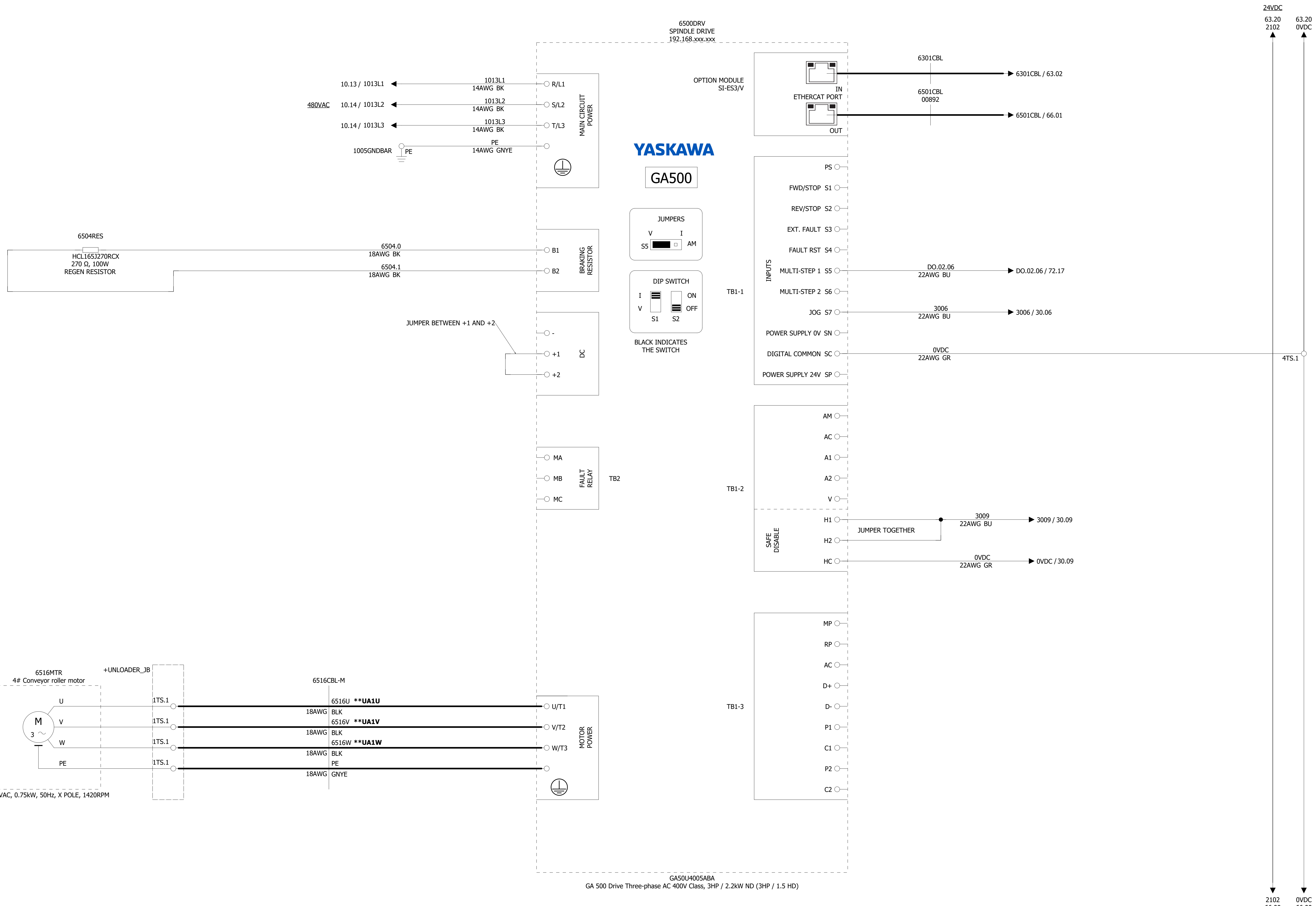


COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	DEPT:	OP. NO:	STA. NO:	DRAWING NO:
				SUPPLIER NO: XXXXXX	6300 DRV - SPINDLE DRIVE	PREV PAGE: <<---	PAGE: 62
				MACH. NAME: ROUTER		NEXT PAGE: ---->>	64
						#	63



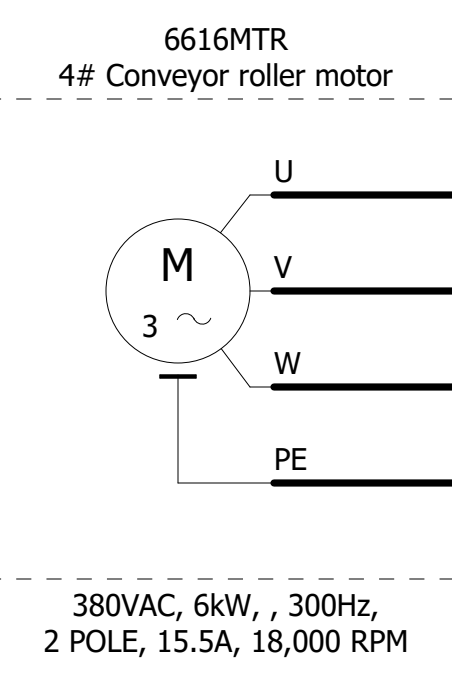
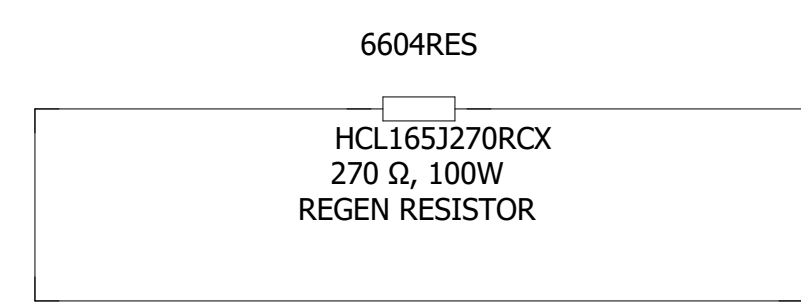
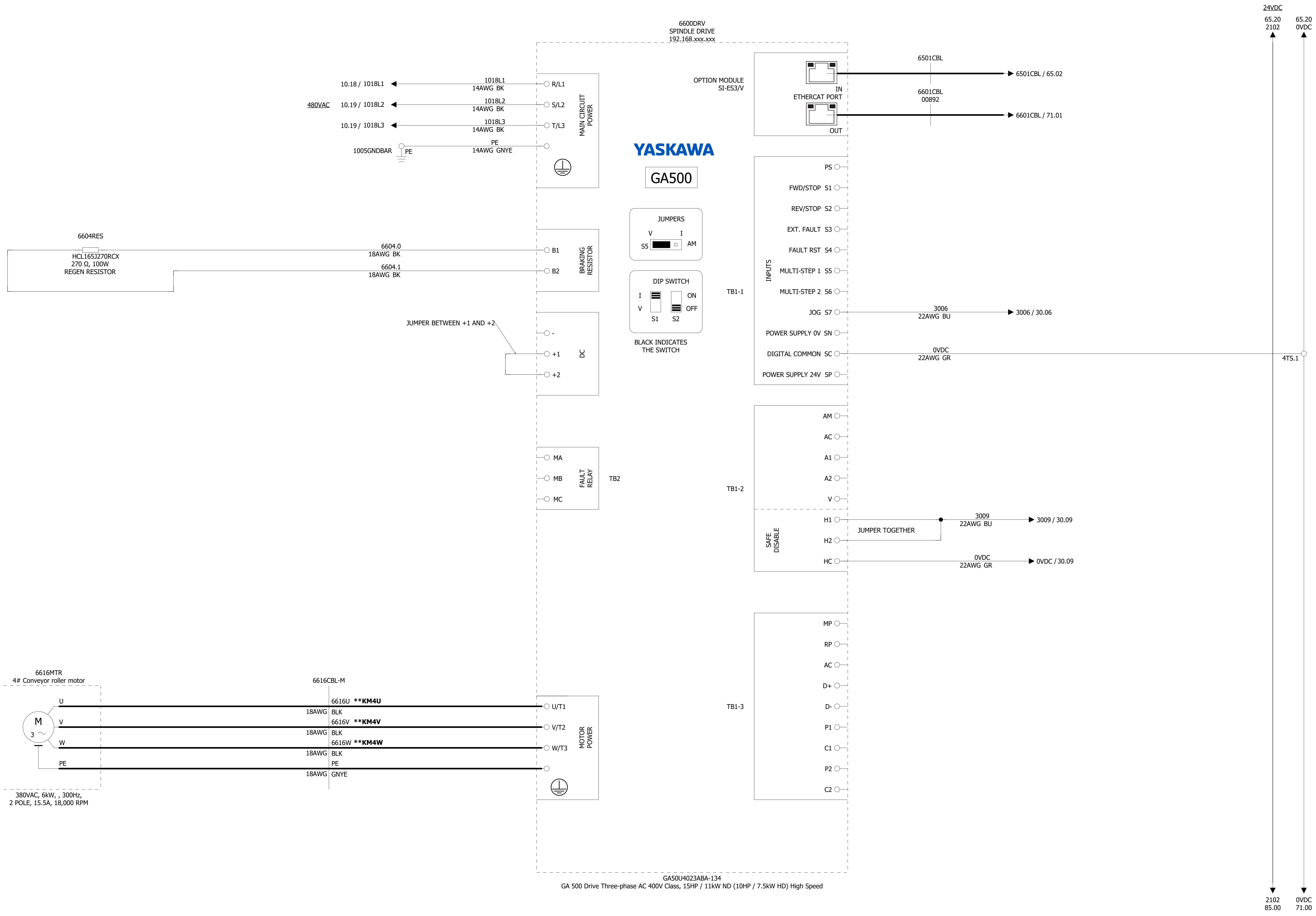
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING - ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 6400 MOTORS	= + PREV PAGE: <<--- PAGE: 63 NEXT PAGE: --->> 65
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	OP. NO: -
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COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	PREV PAGE: <<--- PAGE: 64
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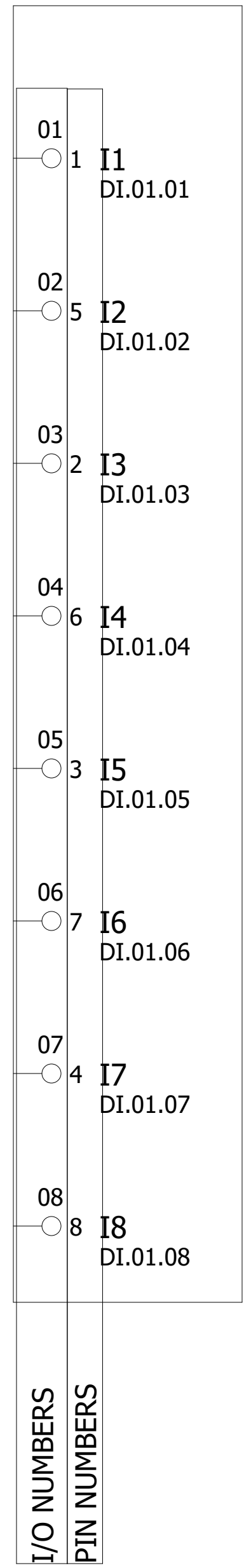


GA50U4023ABA-134
GA 500 Drive Three-phase AC 400V Class, 15HP / 11kW ND (10HP / 7.5kW HD) High Speed

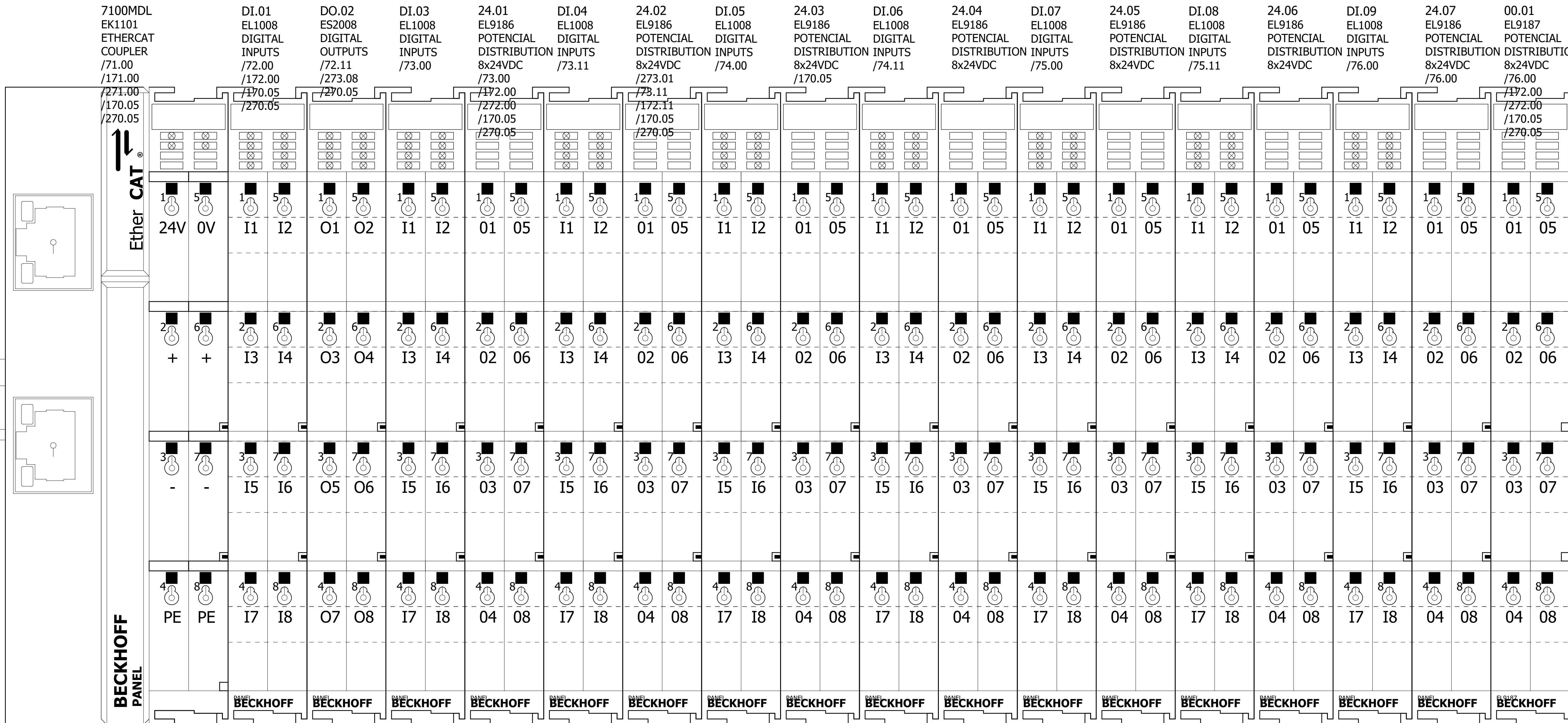
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	SUPPLIER NO: XXXXXX	6600 DRV - SPINDLE DRIVE	&	PREV PAGE: <<--- PAGE:
				MACH. NAME: ROUTER		#	65 NEXT PAGE: --->>
							70

ETHERCAT RACK I/O OVERVIEW

DI.01
EL1008
DIGITAL INPUT CARD



UNUSED INPUT
UNUSED INPUT
UNUSED INPUT
UNUSED INPUT
UNUSED INPUT
UNUSED INPUT
UNUSED INPUT
UNUSED INPUT



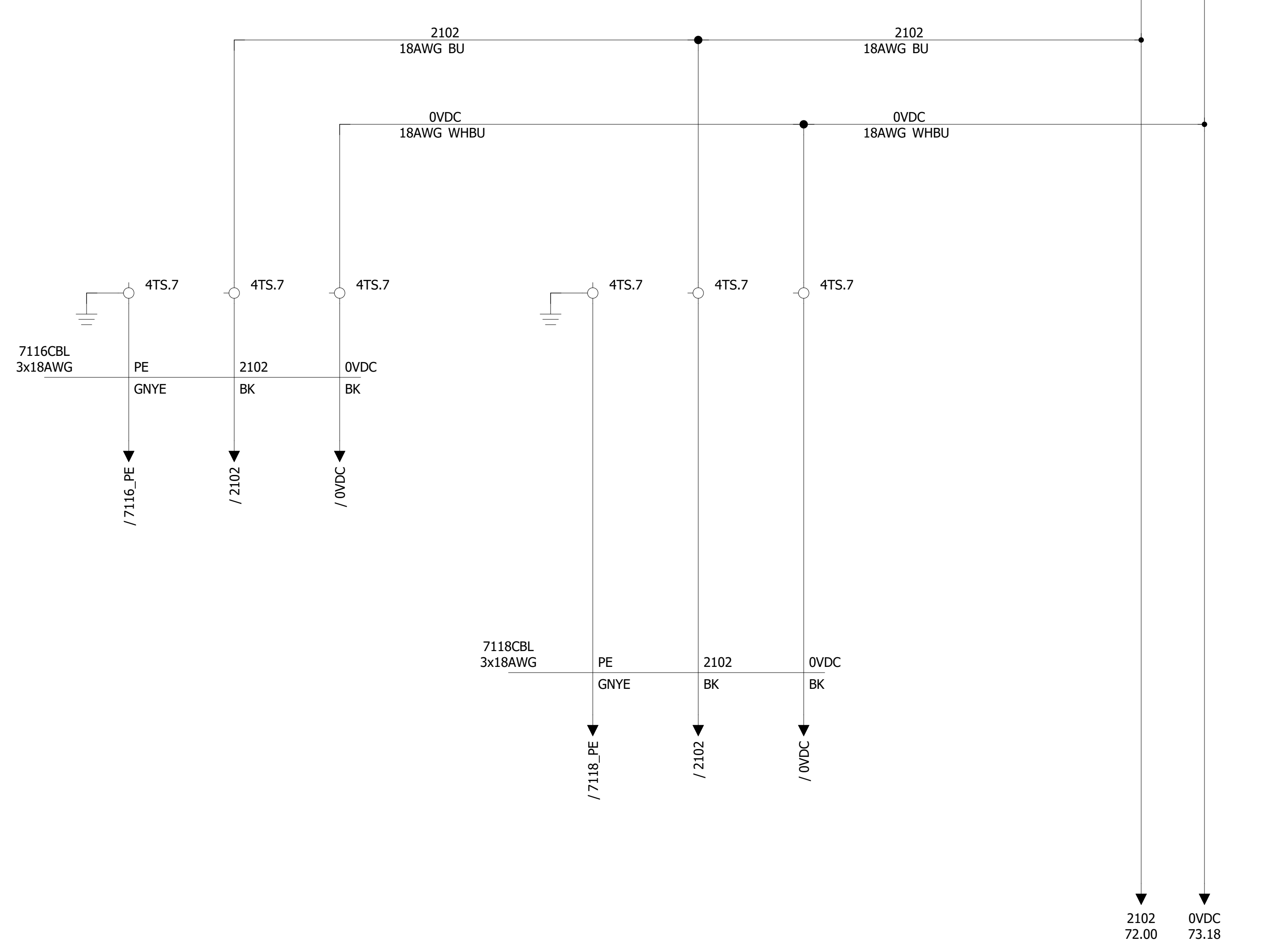
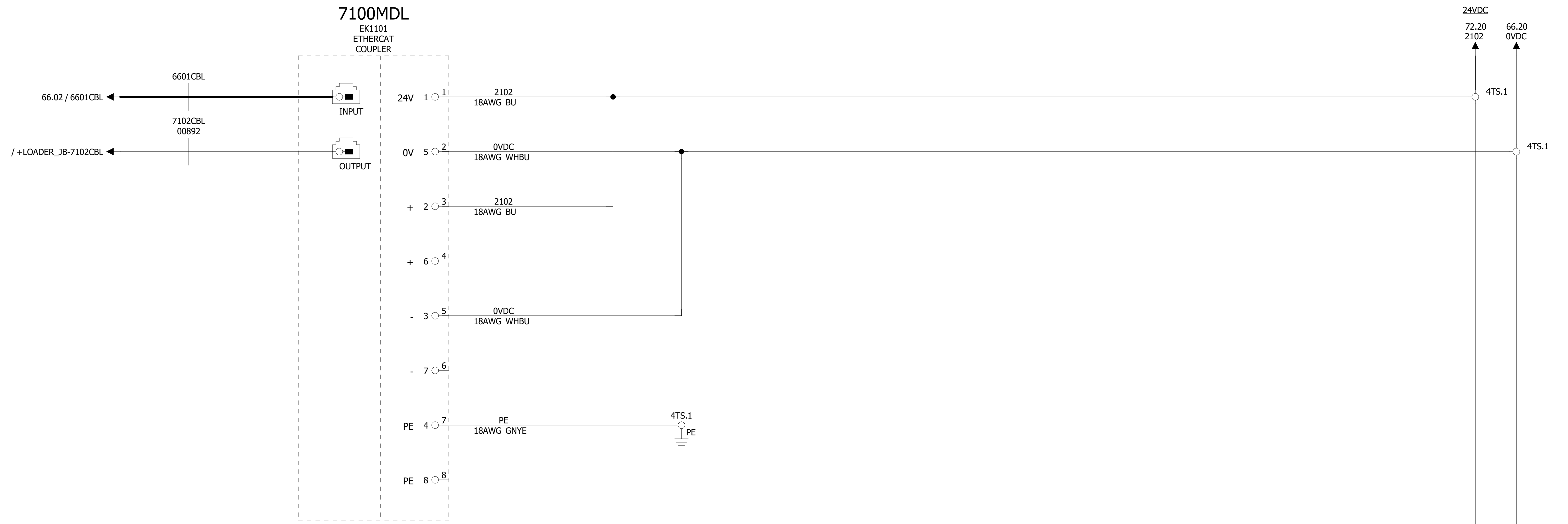
CONTINUE ON NEXT PAGE

PIN NUMBERS
I/O ADDRESS
PIN NUMBERS
I/O ADDRESS
PIN NUMBERS
I/O ADDRESS
PIN NUMBERS
I/O ADDRESS

Explained: How I/O Address are Assigned DI.01.01

DI.	01.	01
FUNCTION OF SLICE	SLICE NUMBER	I/O NUMBER
DI: DIGITAL INPUT DO: DIGITAL OUTPUT RO: DIGITAL RELAY OUTPUT AI: ANALOG INPUT AO: ANALOG OUTPUT 24: 24VDC 00: 0VDC		

71 00
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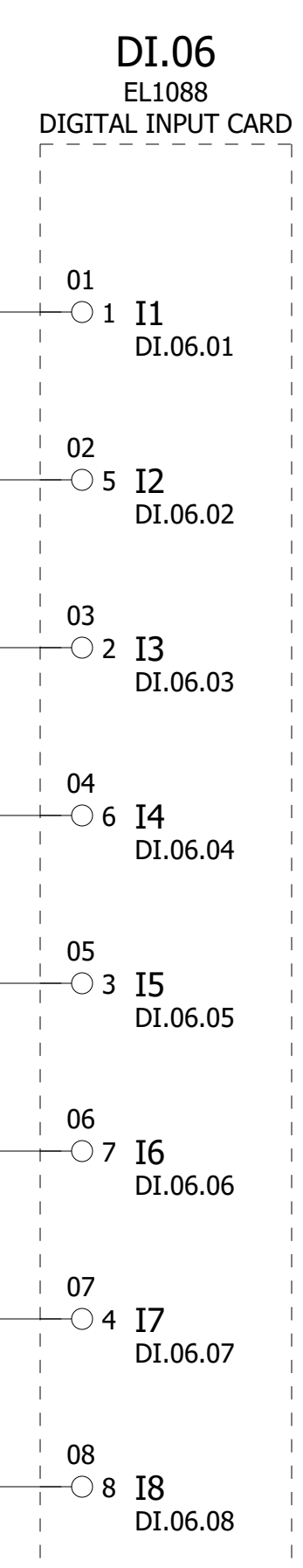
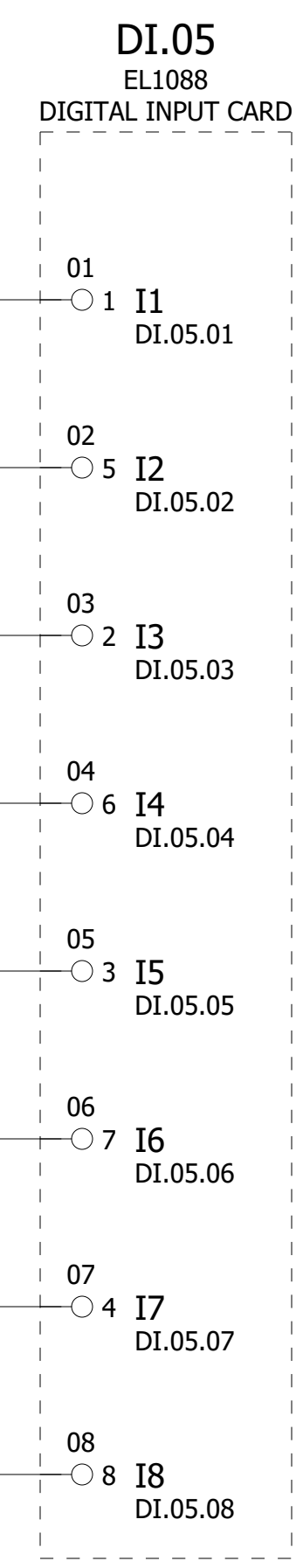
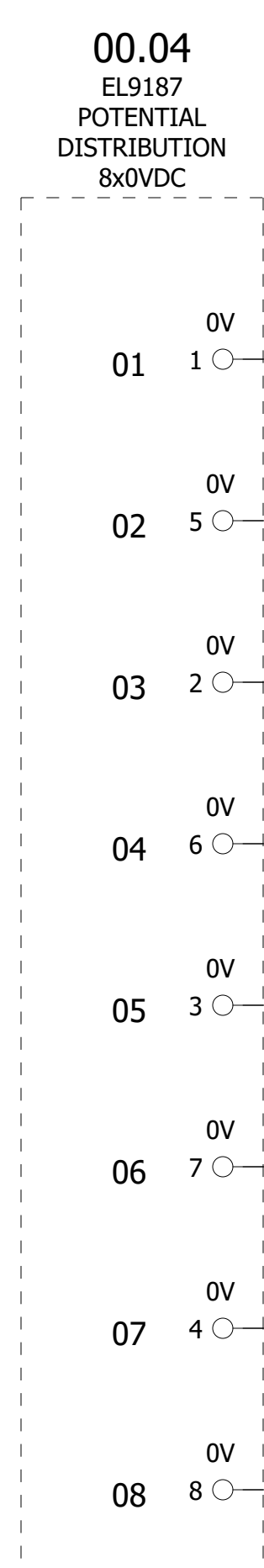
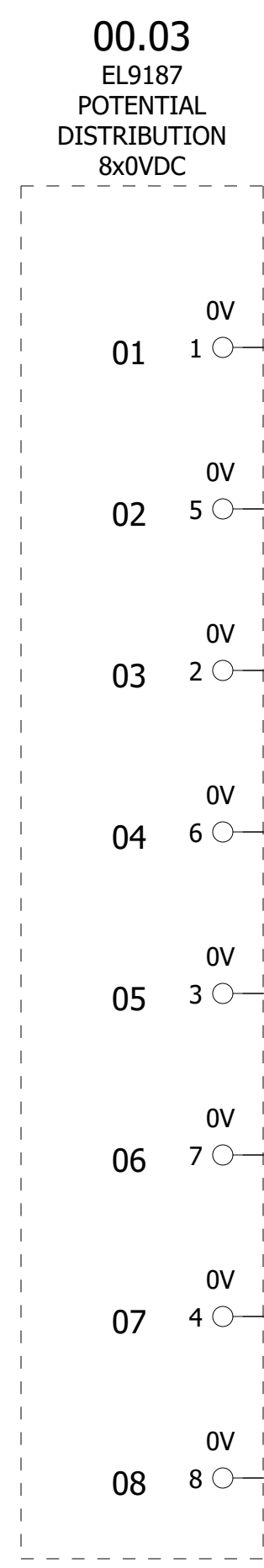


COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX		ETHERCAT I/O COUPLER		PREV PAGE: <<---		PAGE:	
								MACH. NAME: ROUTER		DRAWING NO:		NEXT PAGE: ---->>		70.A		
												72		71		



COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX		ETHERCAT I/O DIGITAL		PREV PAGE: <<---		PAGE: 71	
								MACH. NAME: ROUTER		DRAWING NO:		NEXT PAGE: --->>		73		

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LOCK SIDE TOOL SETTING
LOCKSIDE THICK MEASURE
HINGE SIDE TOOL SETTING SIGNAL
LOCK SIDE END SENSOR MEASURE SENSOR
HINGE SIDE WIDTH MEASURE SENSOR
HINGE SIDE END MEASURE SENSOR
FRONT UNIT REQUEST FEEDOUT
PEDRAIL DECEL SWITCH

PIECE ARRIVAL PEDRAIL SWITCH
PEDRAIL UP TO POSITION
PEDRAIL DOWN TO POSITION
LOCK X++ LIMIT
LOCK X-- LIMIT
LOCK Y++ LIMIT
LOCK Y-- LIMIT
LOCK Z++ LIMIT

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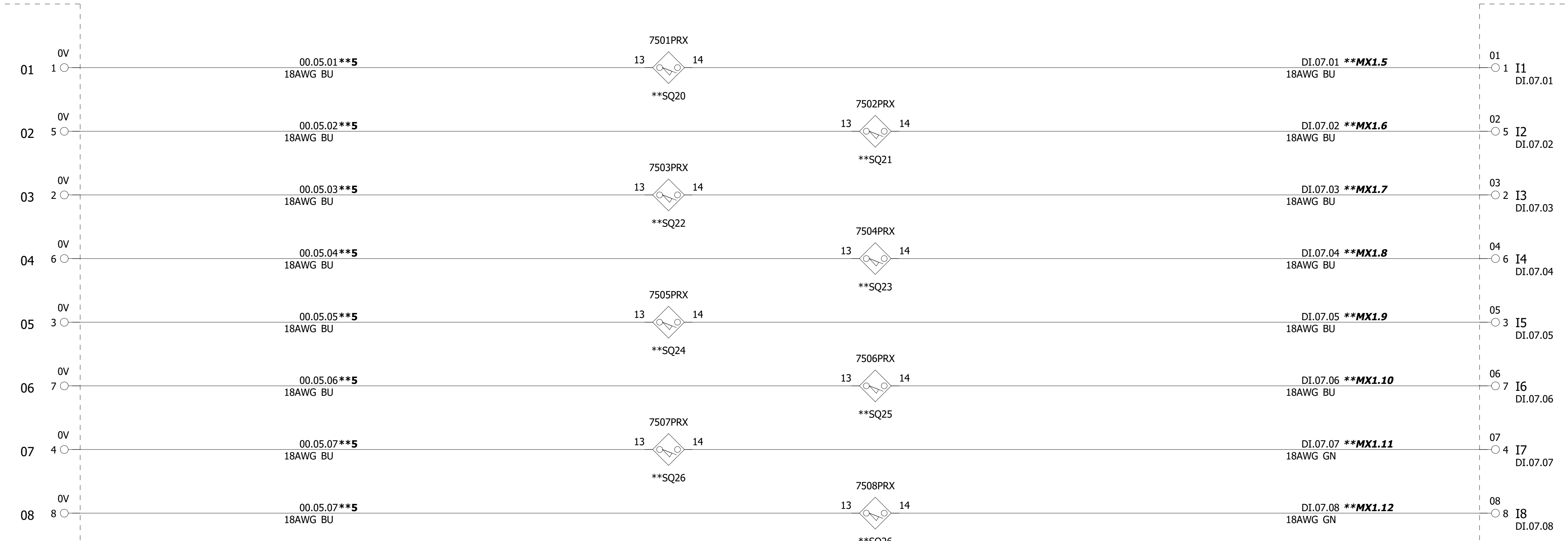
75 17

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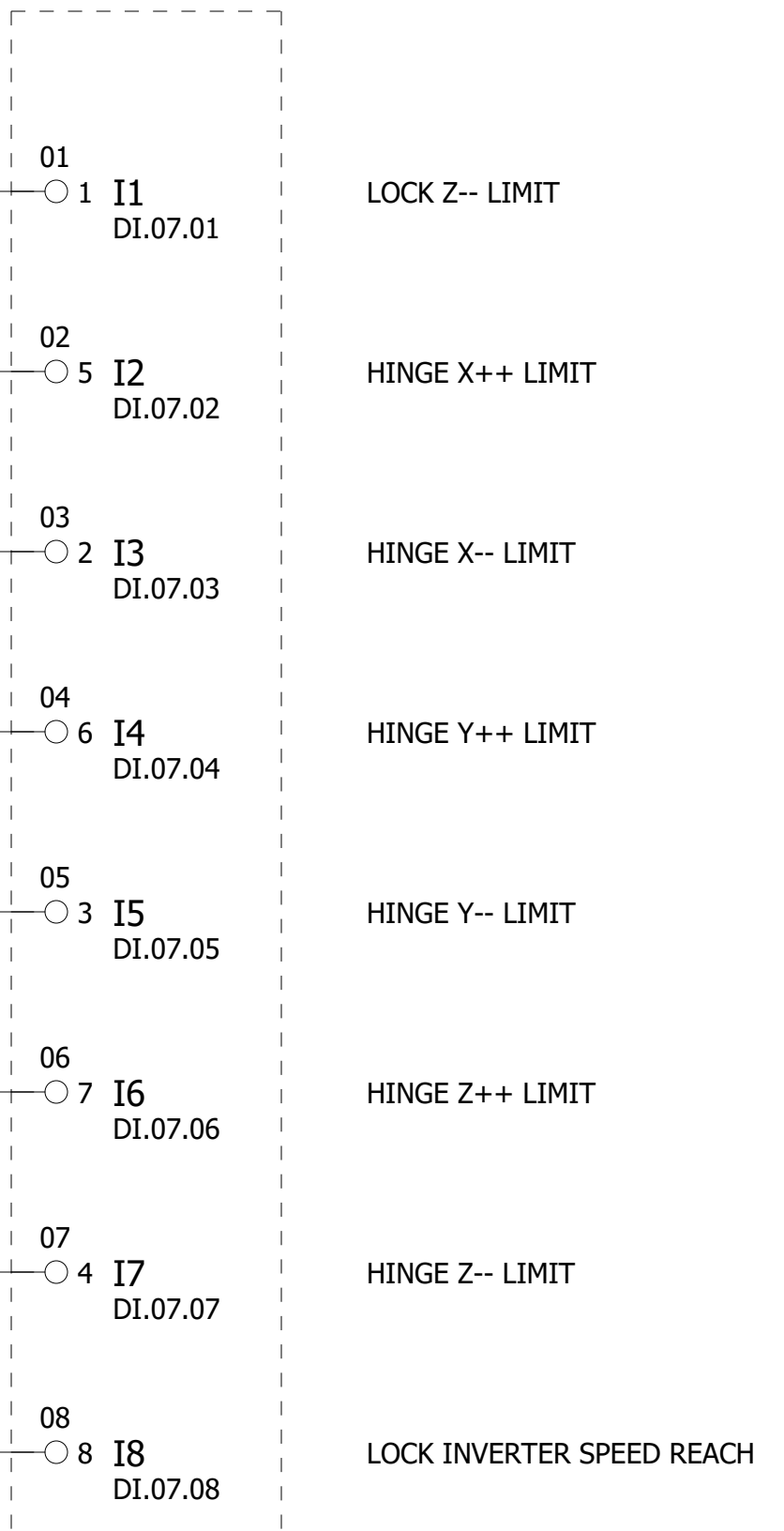
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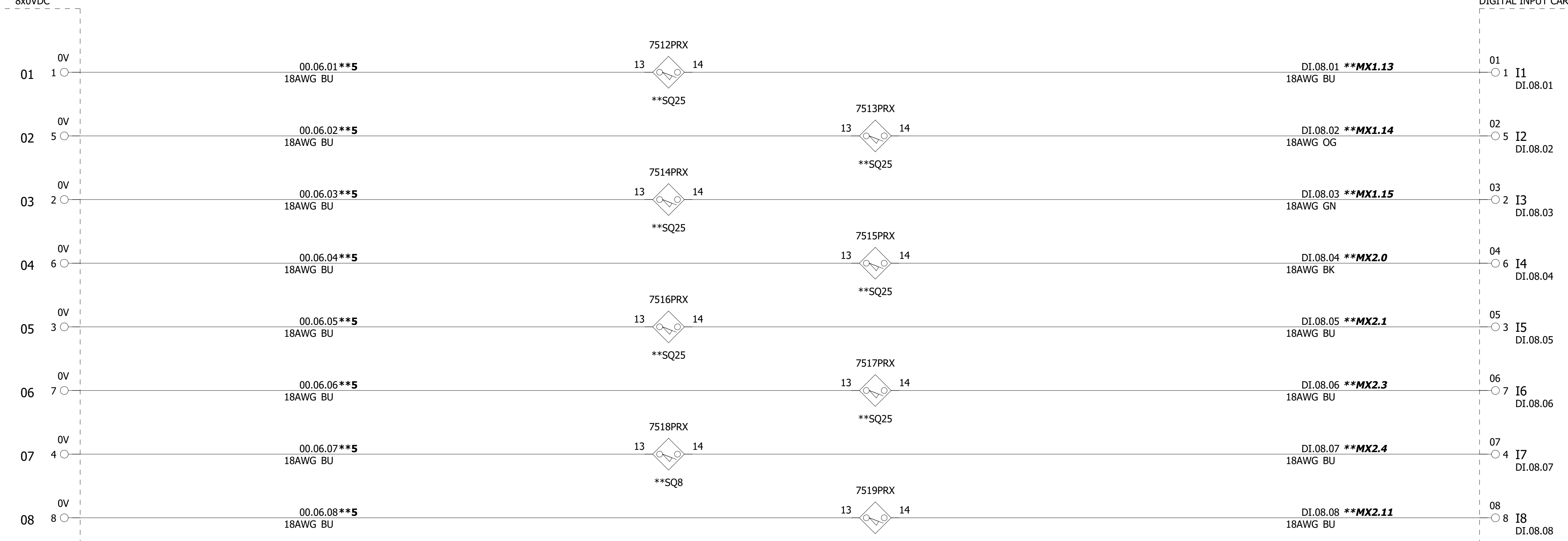
00.05
EL9187
POTENTIAL
DISTRIBUTION
8x0VDC



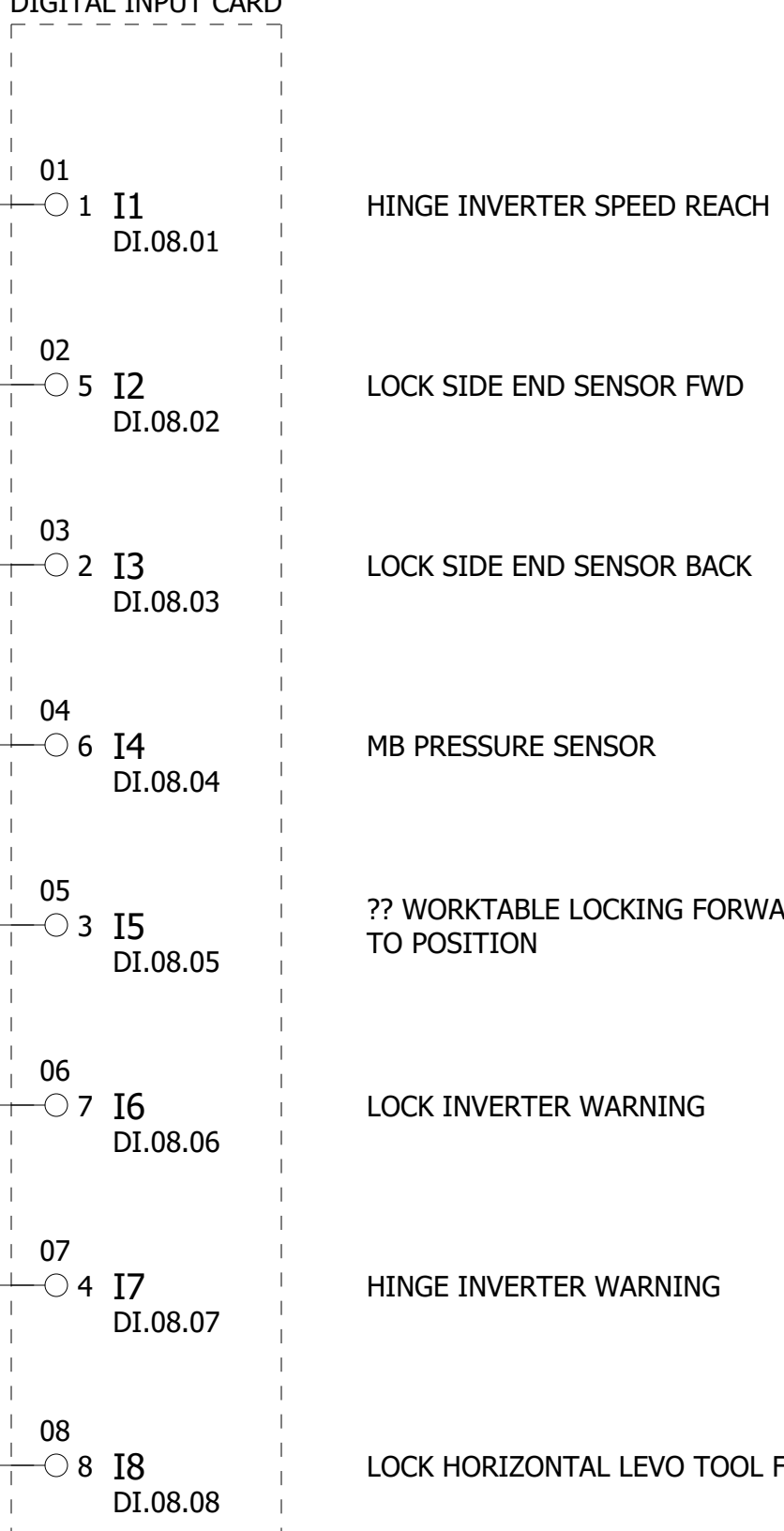
DI.07
EL1088
DIGITAL INPUT CARD



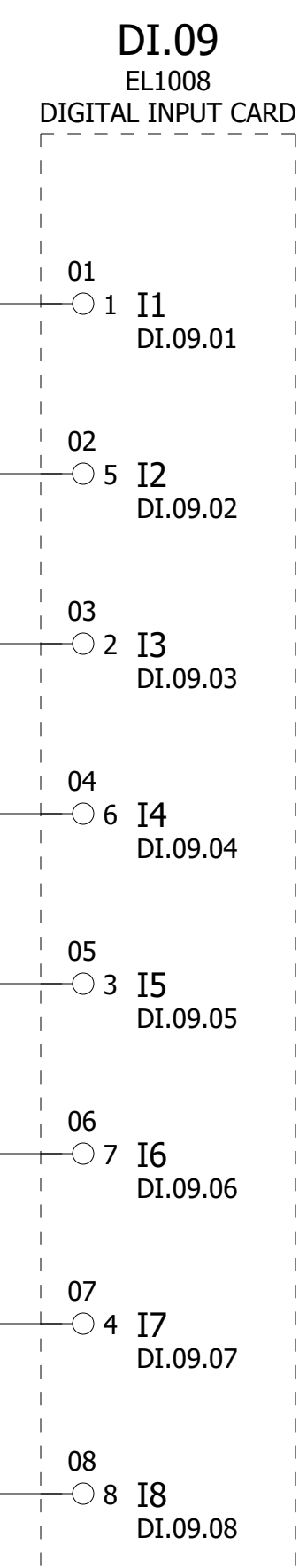
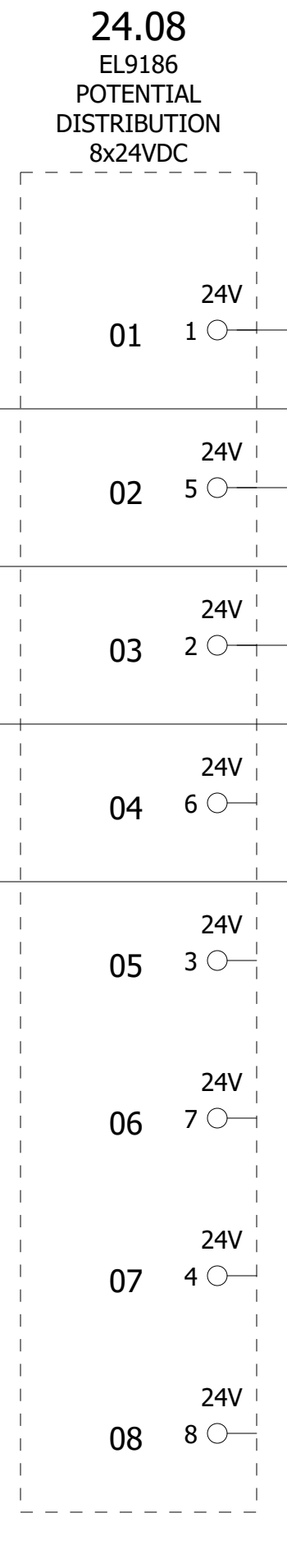
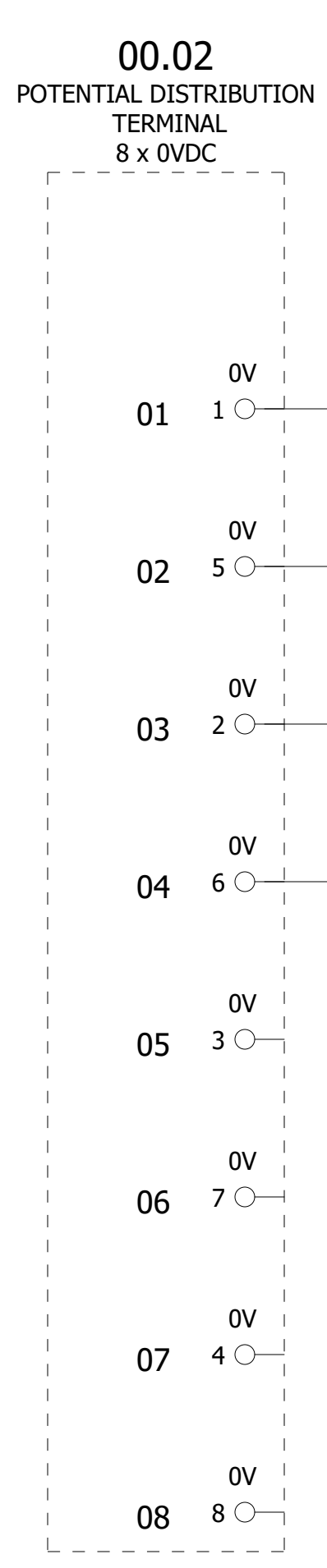
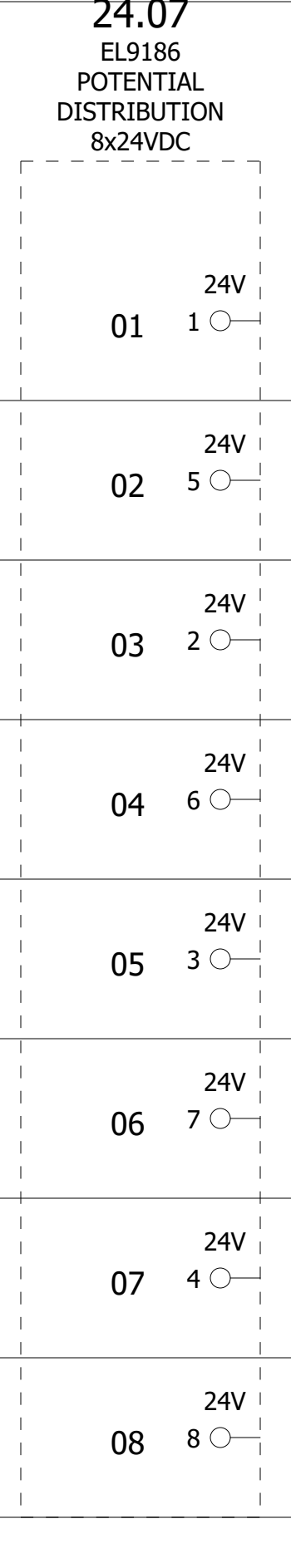
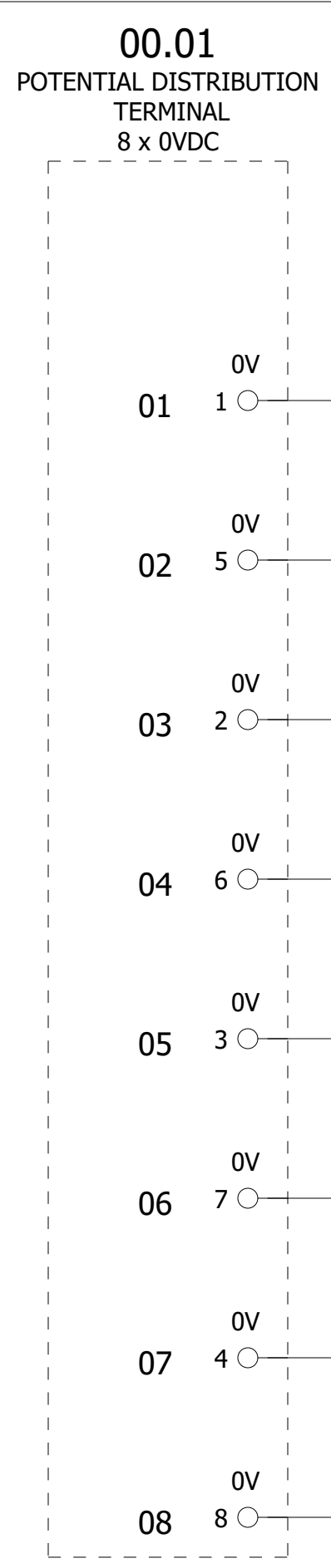
00.06
EL9187
POTENTIAL
DISTRIBUTION
8x0VDC



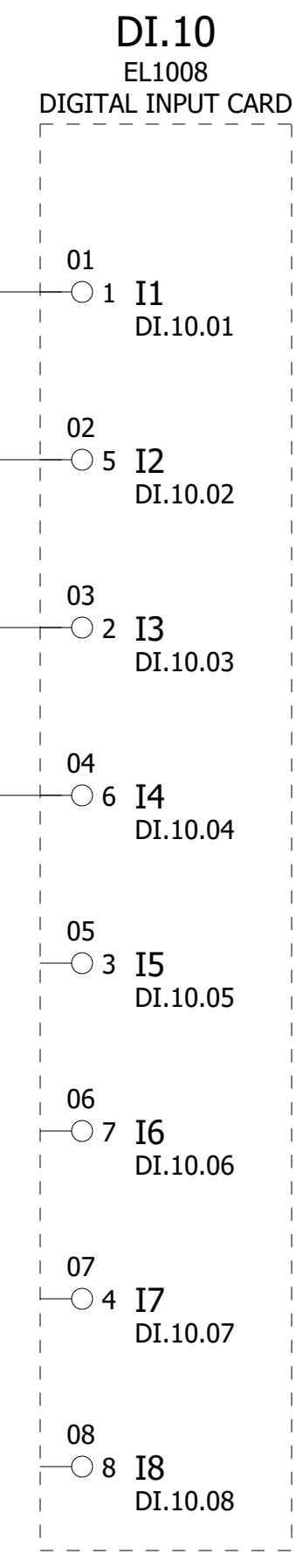
DI.08
EL1088
DIGITAL INPUT CARD



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LOCK HOZONTAL LEVO TOOL BACK
LOCK HOZONTAL DEXTTO TOOL FWD
LOCK HOZONTAL DEXTTO TOOL BACK
LOCK SCREW HOLE TOOL FWD
LOCK SCREW HOLE TOOL BACK
LOCK VERICAL LEFT TOOL FWD
LOCK VERICAL LEFT TOOL BACK
HINGE SIDE WIDTH MEASURE SENSOR



PEDRAIL DECELERATE SWITCH
PIECE ARRIVE PEDRAIL SWITCH
BEVEL TOOL DOWN
BEVEL TOOL UP
UNUSED INPUTS
UNUSED INPUTS
UNUSED INPUTS
UNUSED INPUTS

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DO.12
EL2828
DIGITAL
OUTPUTS



EL2828

COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		REVISION:		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER:		LOC:	FACTORY:	DEPT:	OP. NO:	STA. NO:	SUPPLIER NO: XXXXX		MACH. NAME: ROUTER		DRAWING NO:		PREV PAGE: <<---		PAGE: 79	
															NEXT PAGE: --->>		81	

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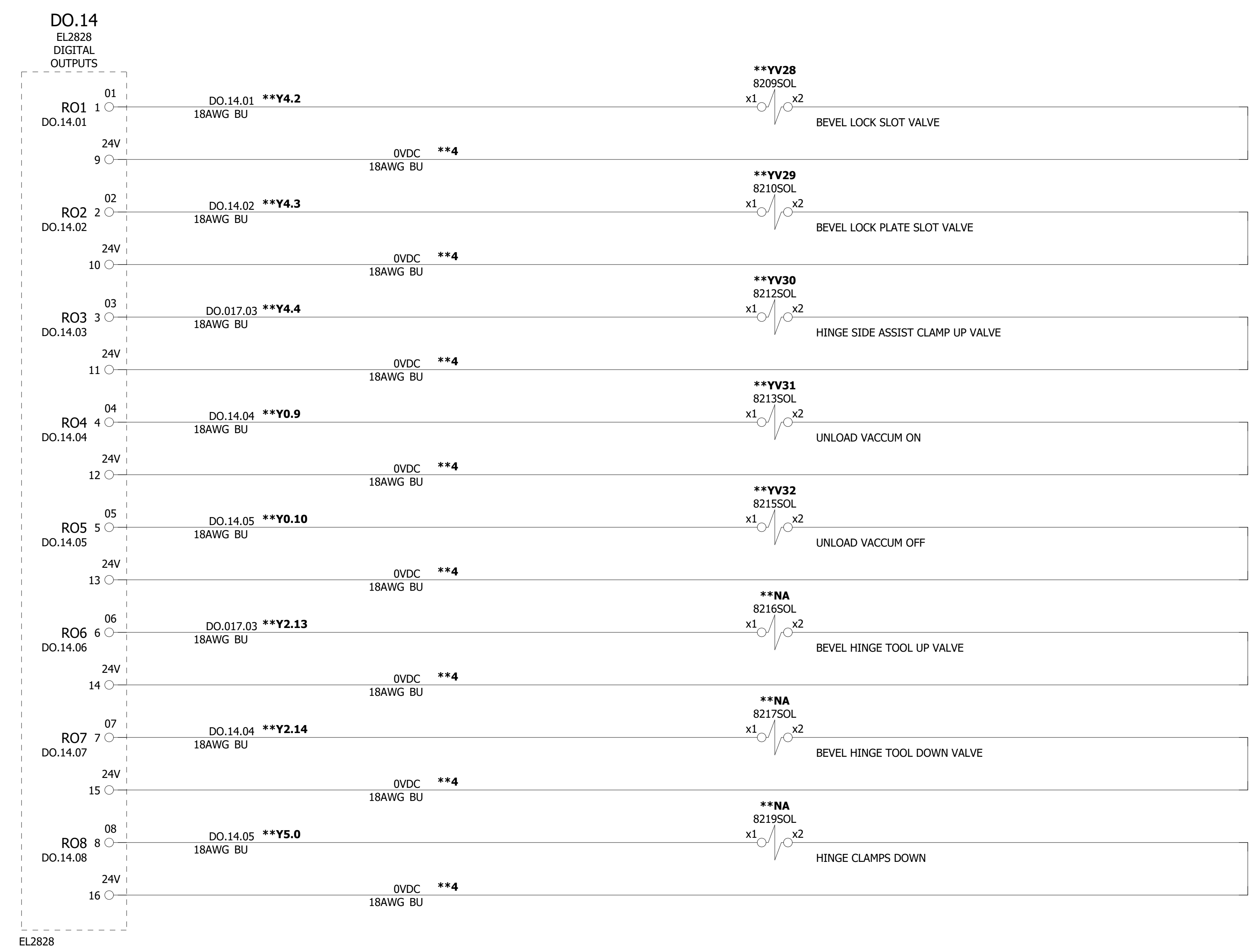
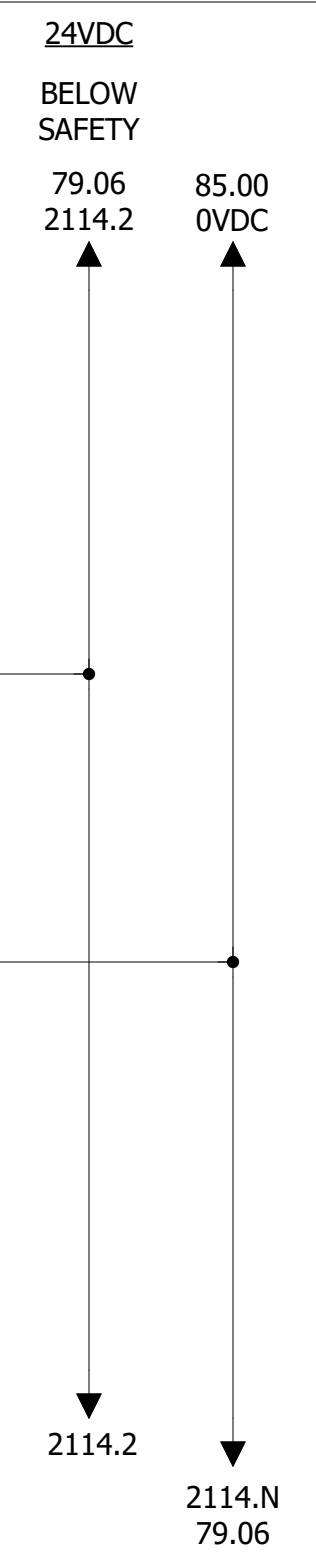
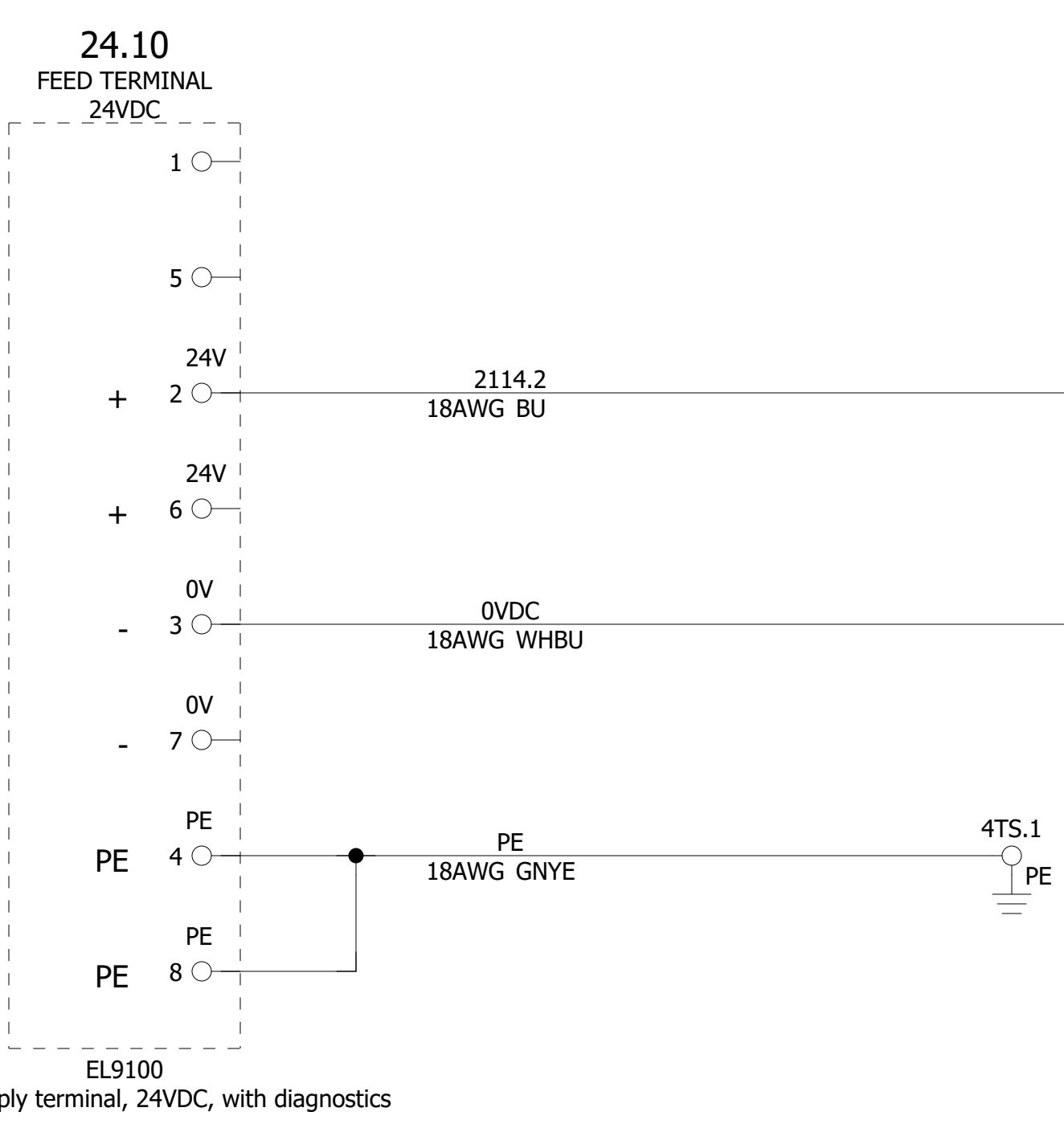
DO.13
EL2828
DIGITAL
OUTPUTS



EL2828

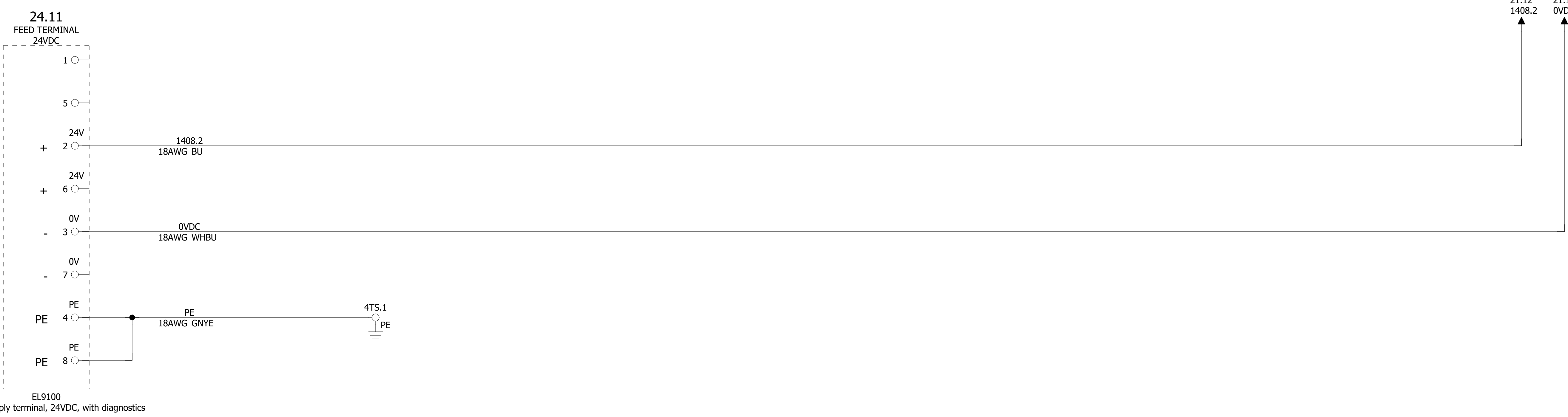
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	REVISION:	LOC:	FACTORY:	SUPPLIER NO: XXXXX	ETHERCAT I/O DIGITAL OUTPUTS	&	PREV PAGE: <<--- PAGE: 80
APPROVER:	APPROVER:	DEPT:	OP. NO:	MACH. NAME: ROUTER	DRAWING NO:	#	NEXT PAGE: --->> 82

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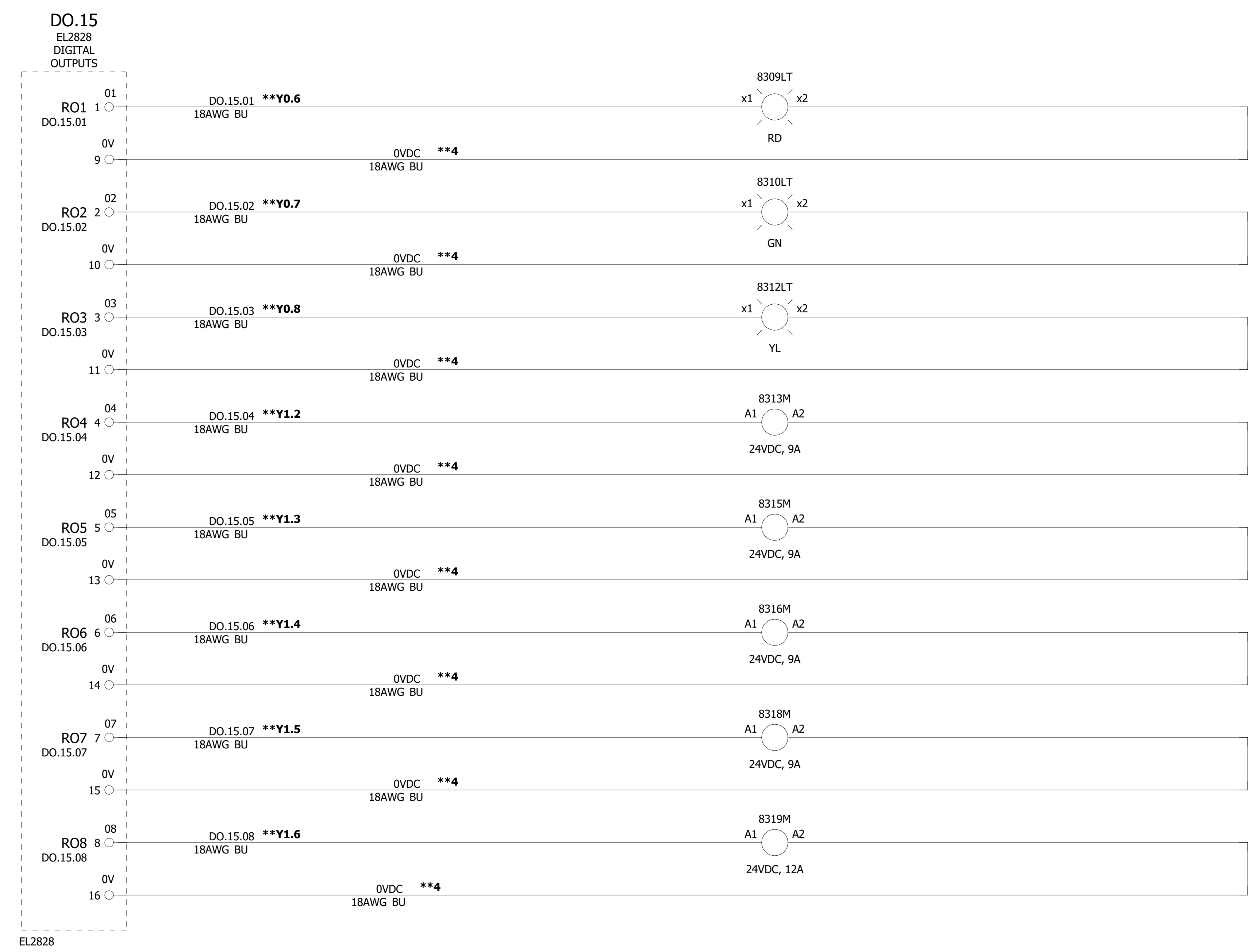


COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	REVISION:	LOC:	FACTORY:	SUPPLIER NO: XXXXXX	ETHERCAT I/O DIGITAL OUTPUTS	&	PREV PAGE: <<---
APPROVER:	OP. NO:	DEPT:	STA. NO:	MACH. NAME: ROUTER		#	NEXT PAGE: --->>
				DRAWING NO:			81
							83

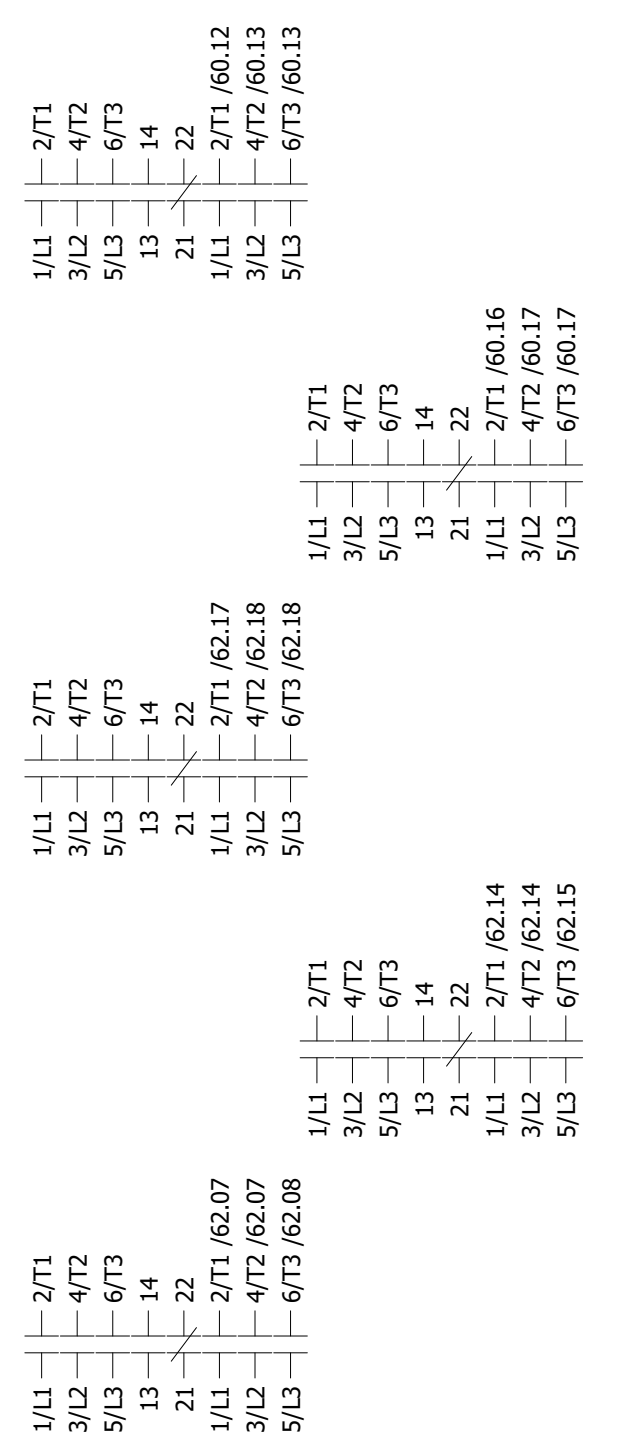
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EL9100
Potential Supply terminal, 24VDC, with diagnostics



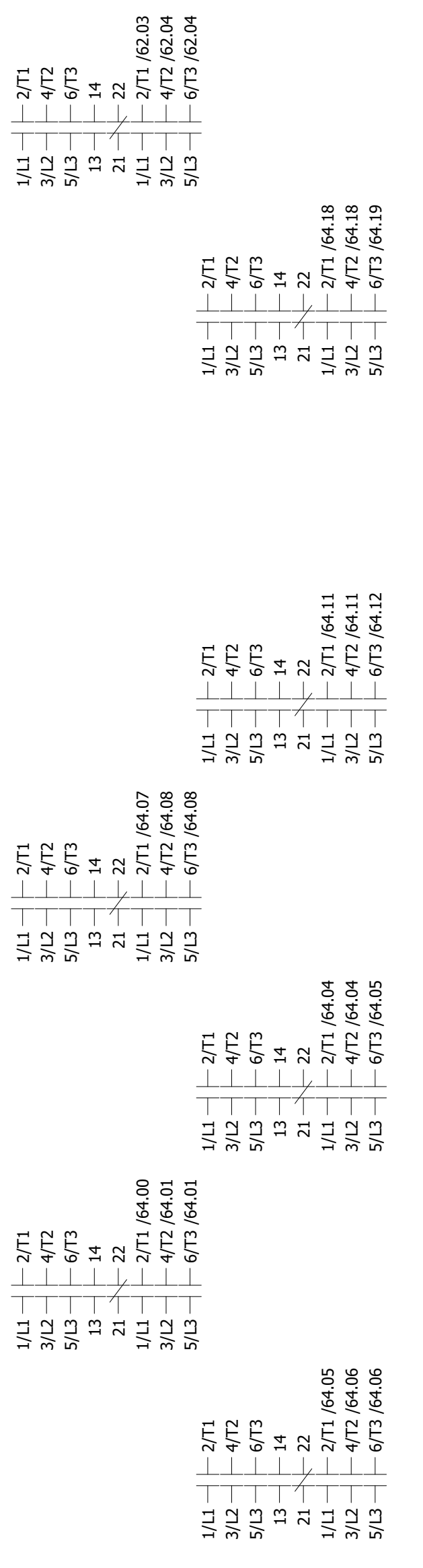
EL2828



COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX		MACH. NAME: ROUTER		DRAWING NO:		ETHERCAT I/O DIGITAL OUTPUTS	
												PREV PAGE: <<--		PAGE: 82		
												NEXT PAGE: -->>		84		

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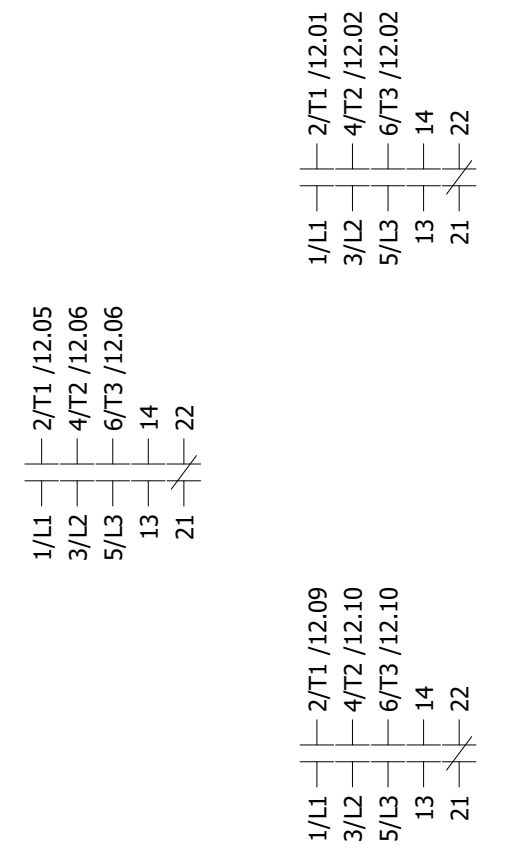
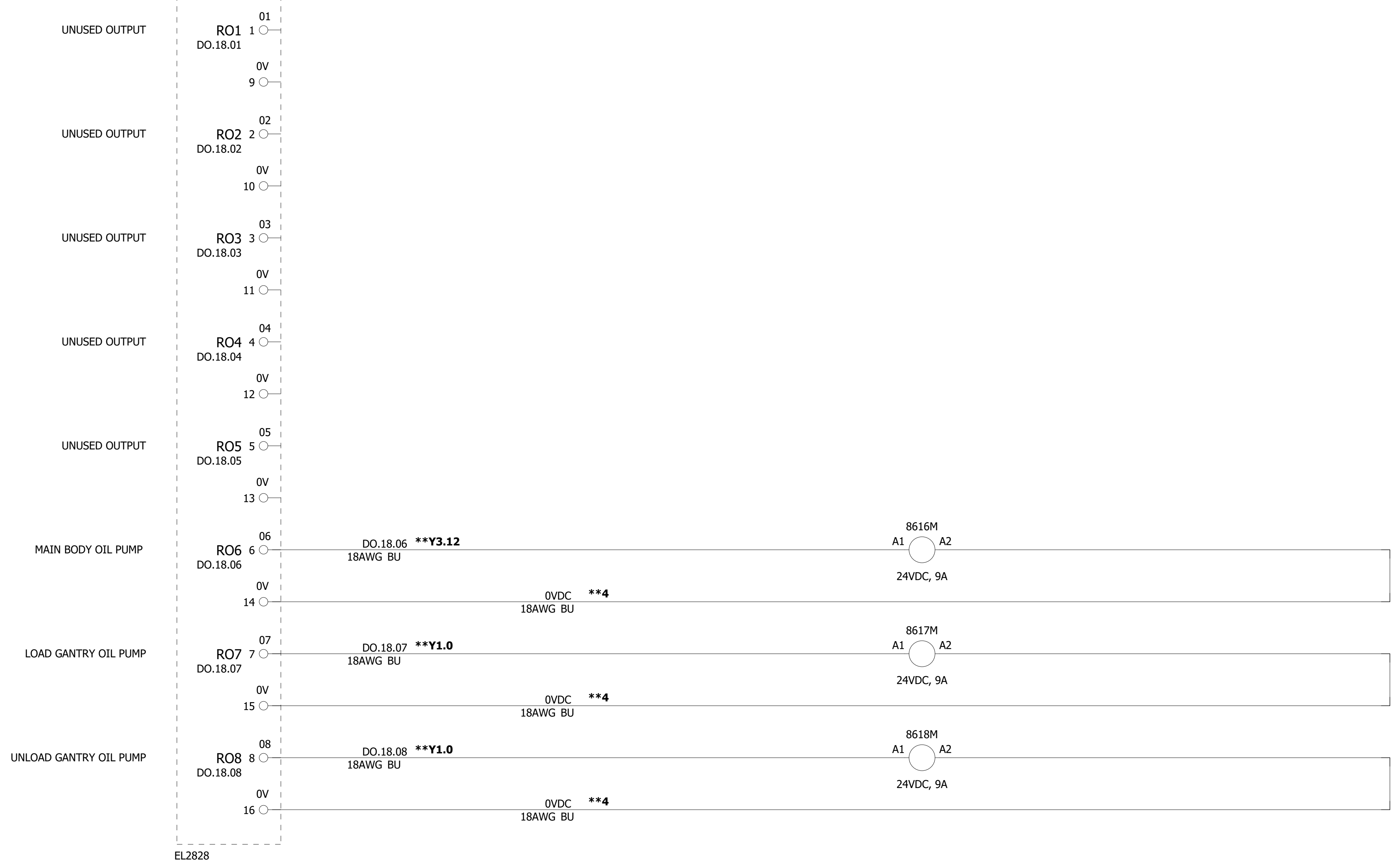
DO.16
EL2828
DIGITAL
OUTPUTS



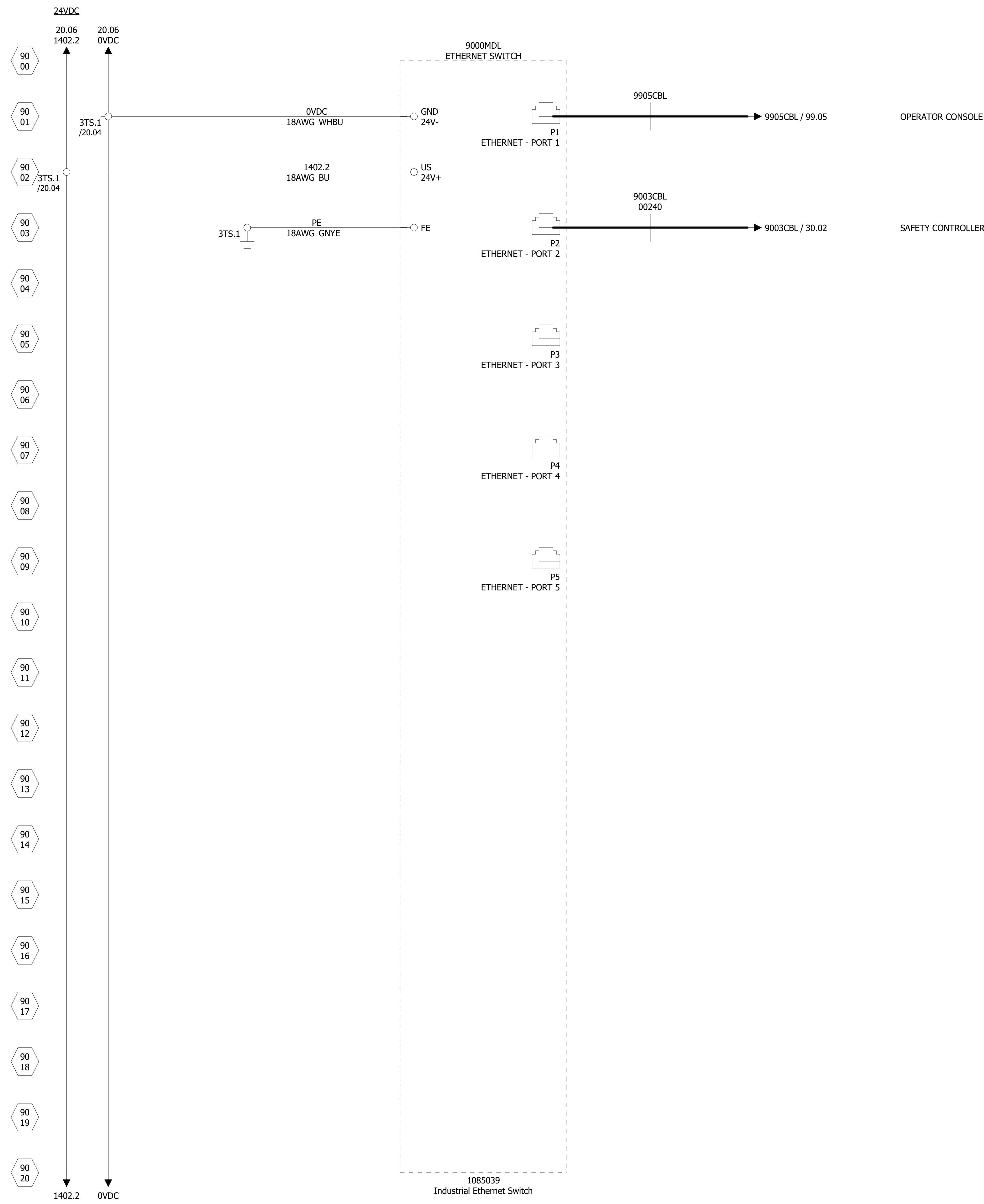
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	PREV PAGE: <<-->> PAGE: 83
				SUPPLIER NO: XXXXXX	MACH. NAME: ROUTER	DRAWING NO:	NEXT PAGE: >>-->> 85
						ETHERCAT I/O DIGITAL OUTPUTS	
						84	

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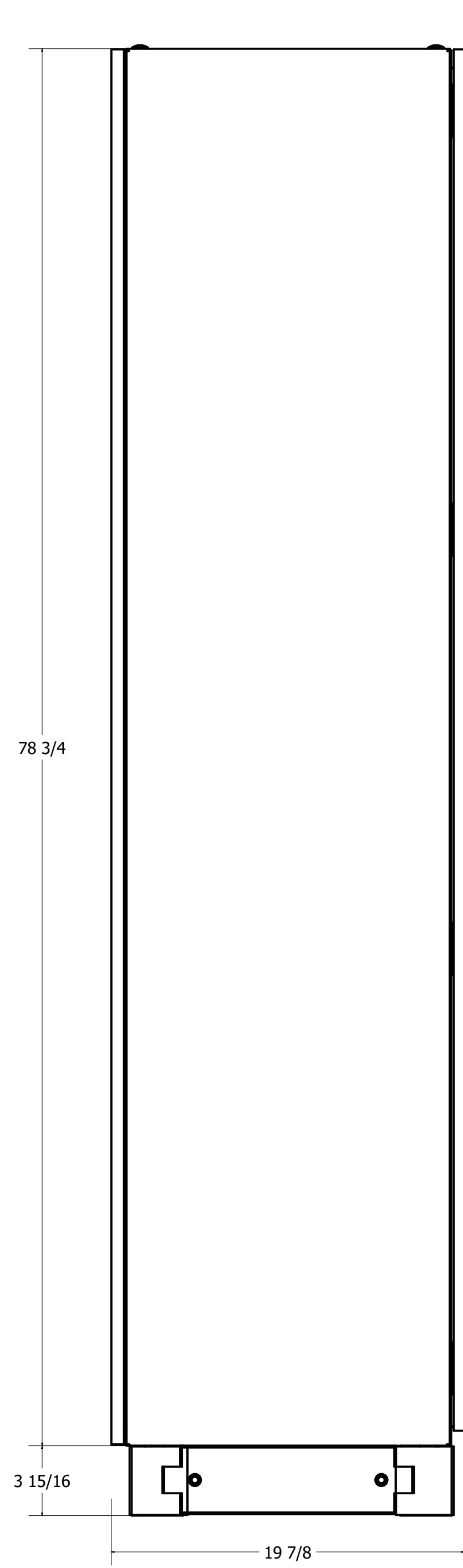
DO.18
EL2828
DIGITAL
OUTPUTS



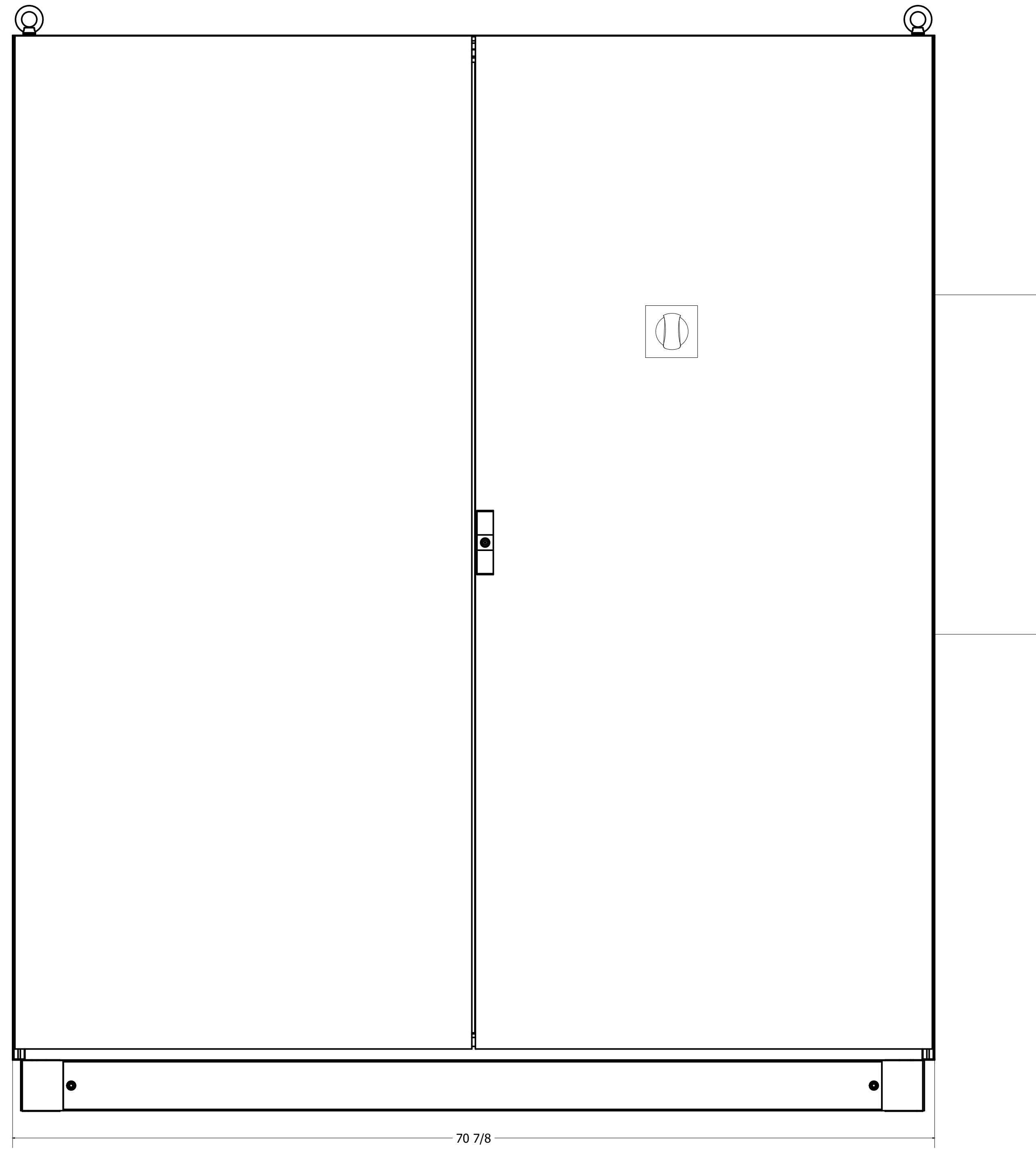
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX		MACH. NAME: ROUTER		DRAWING NO:		ETHERCAT I/O DIGITAL OUTPUTS	
												PREV PAGE: <<---		PAGE: 85		
												NEXT PAGE: --->>		90		



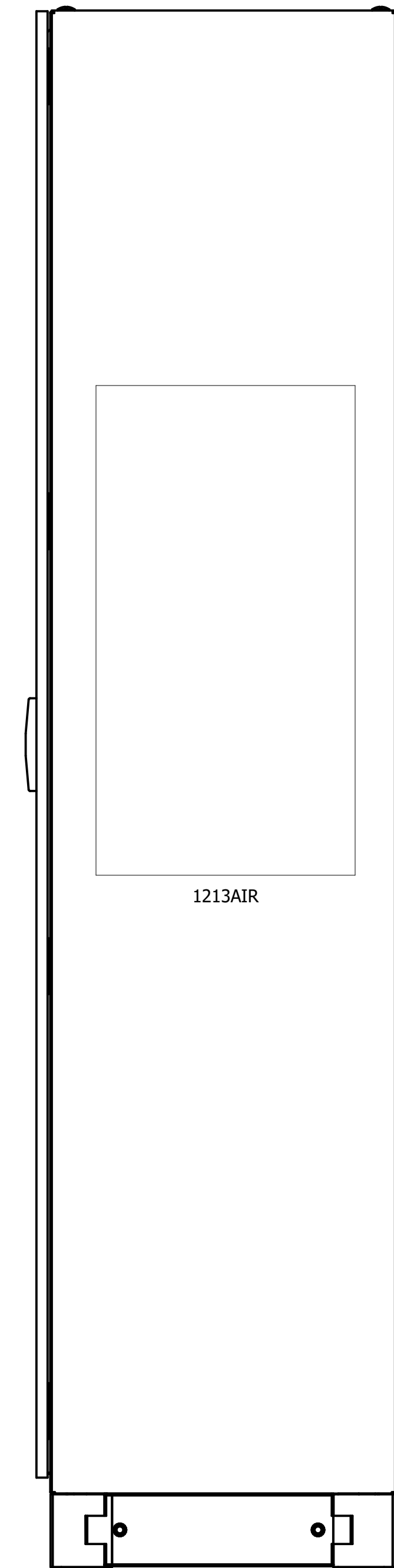
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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		9000 MDL - ETHERNET SWITCH		PREV PAGE: <<---		PAGE: 86	
									MACH. NAME: ROUTER		DRAWING NO:		NEXT PAGE: ---->>		95	



LEFT SIDE VIEW



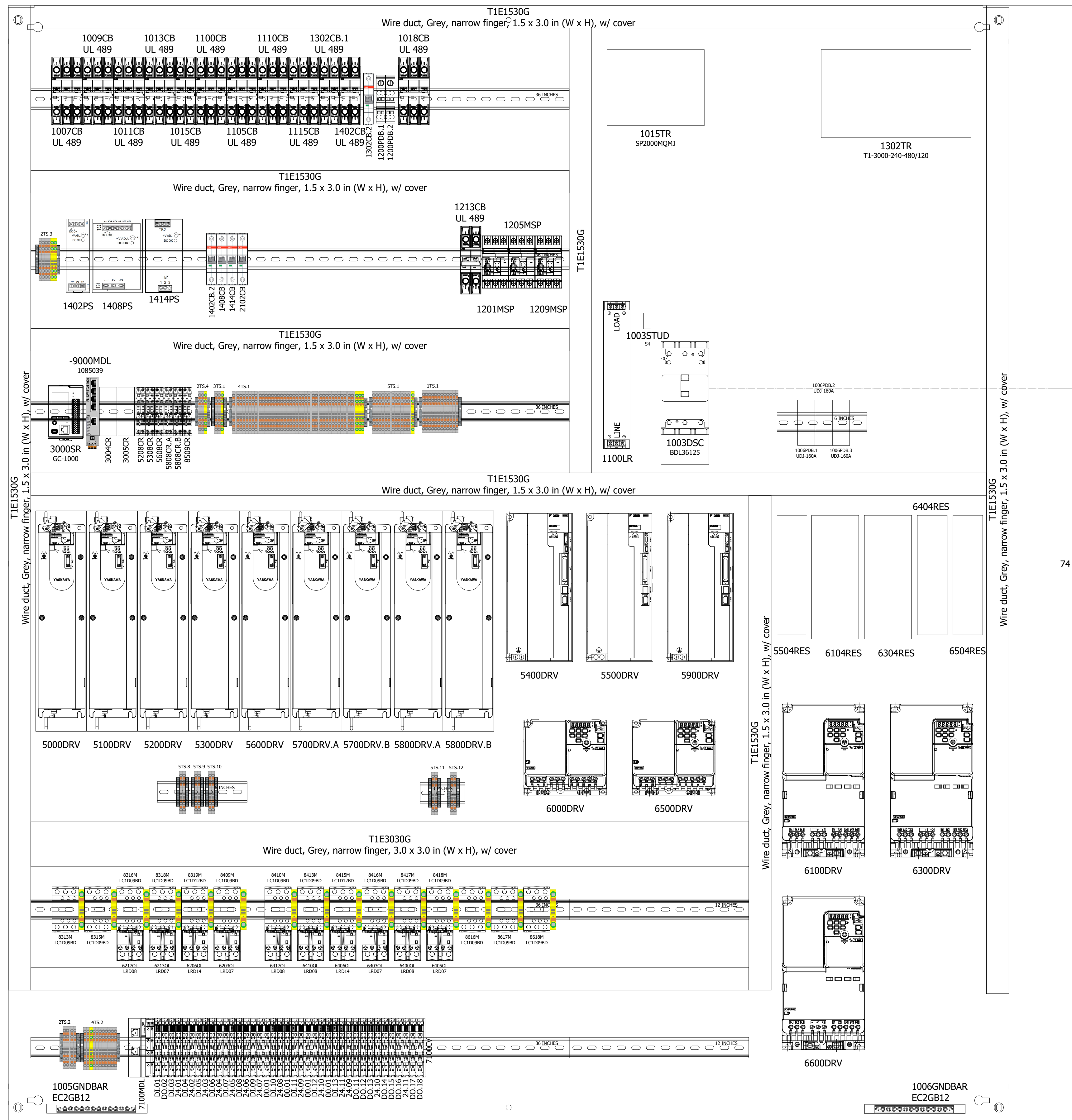
FRONT VIEW



RIGHT SIDE VIEW

ALL DIMENSIONS IN INCH
UNLESS OTHERWISE SPECIFIED

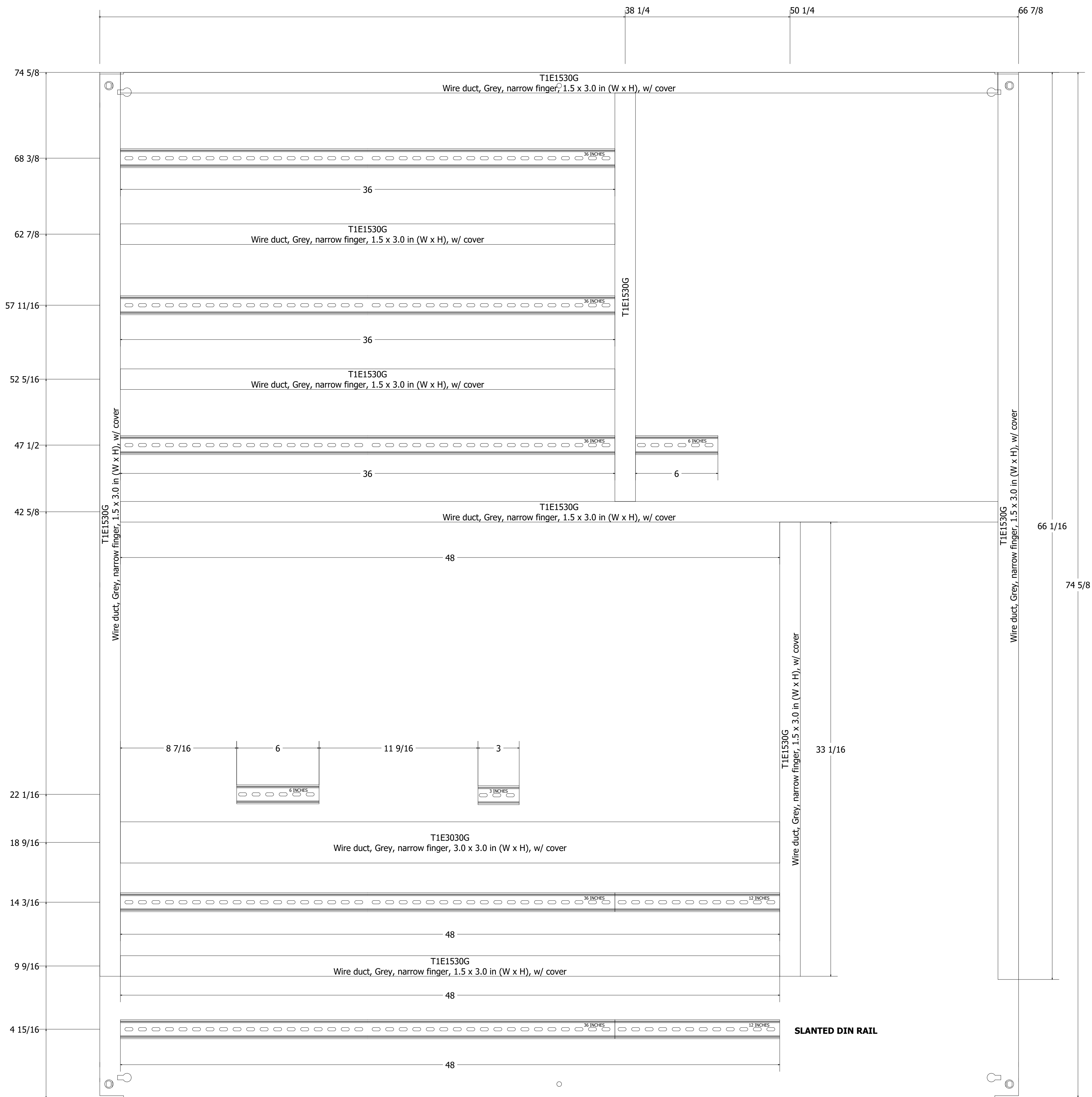
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		ENCLOSURE		PREV PAGE: <<-->		PAGE: 90	
								MACH. NAME: ROUTER		DRAWING NO:		NEXT PAGE: -->>		96		



74 5/8

NOT MORE THAN 52

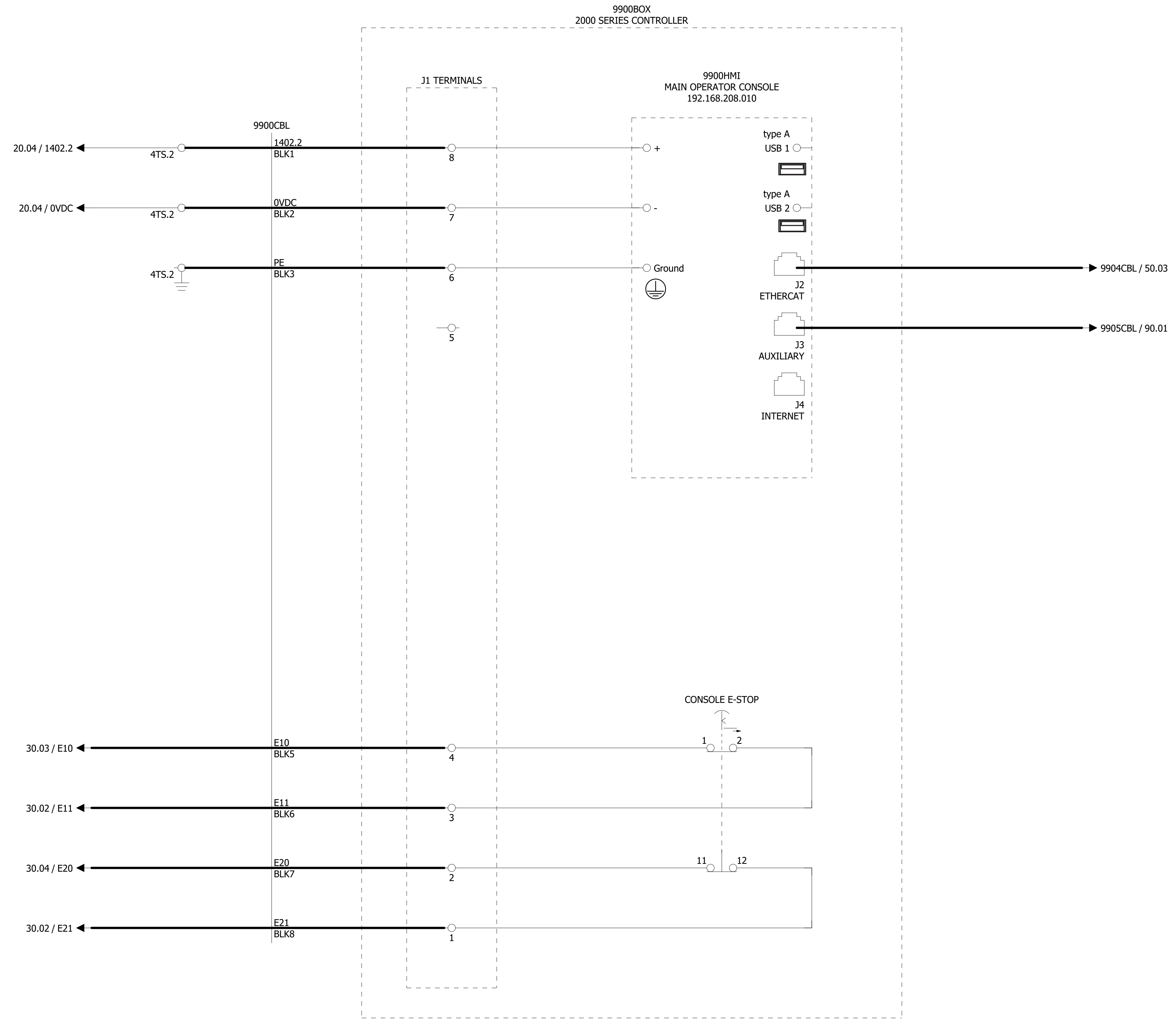
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DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	SUPPLIER NO: XXXXXX	BACKPLATE	&	PREV PAGE: <<--> PAGE: 95
				MACH. NAME: ROUTER	DRAWING NO:	#	NEXT PAGE: -->> 96.A



COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ALL DIMENSIONS IN INCH UNLESS OTHERWISE SPECIFIED ROUTER		=		+	
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX	MACH. NAME: ROUTER		DRAWING NO:		BACKPLATE DIMENSIONAL	
												PREV PAGE: <<--->>		PAGE: 96	
												NEXT PAGE: --->>>		PAGE: 99	

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24VDC

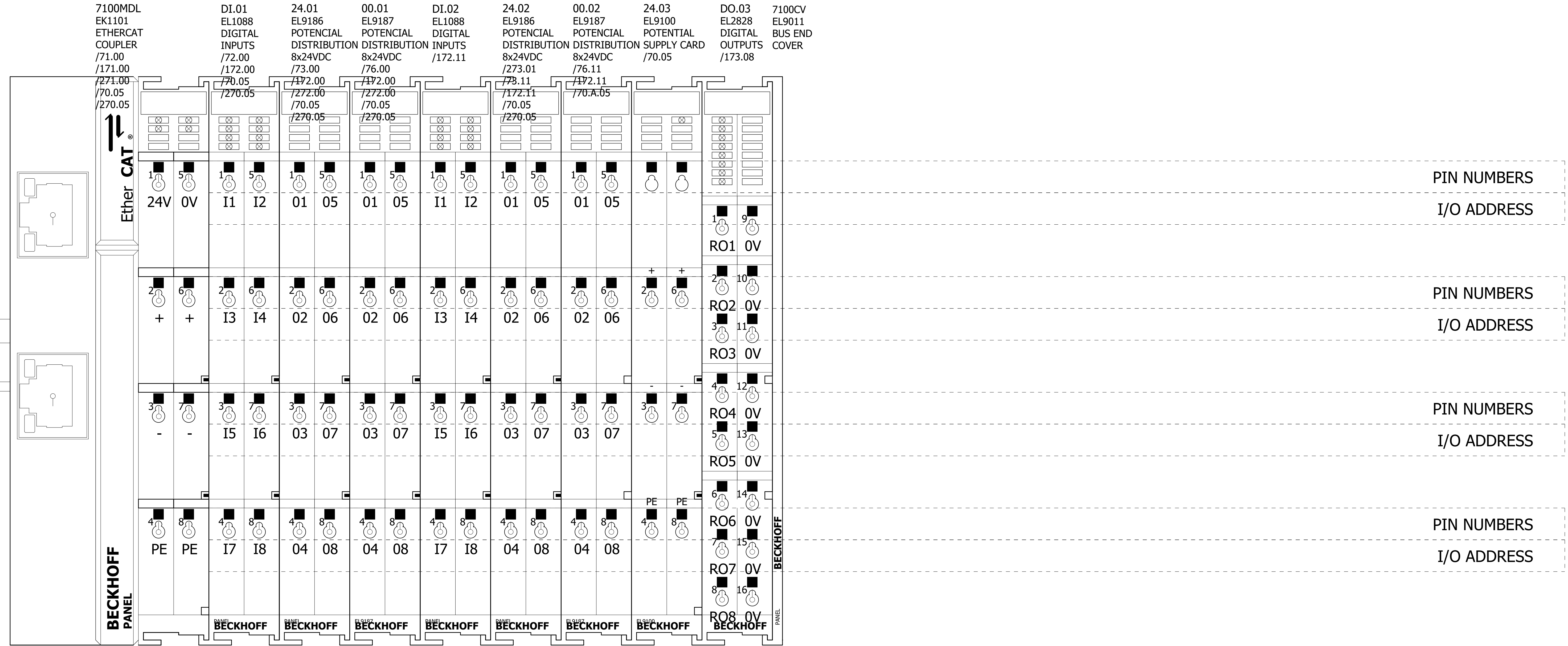
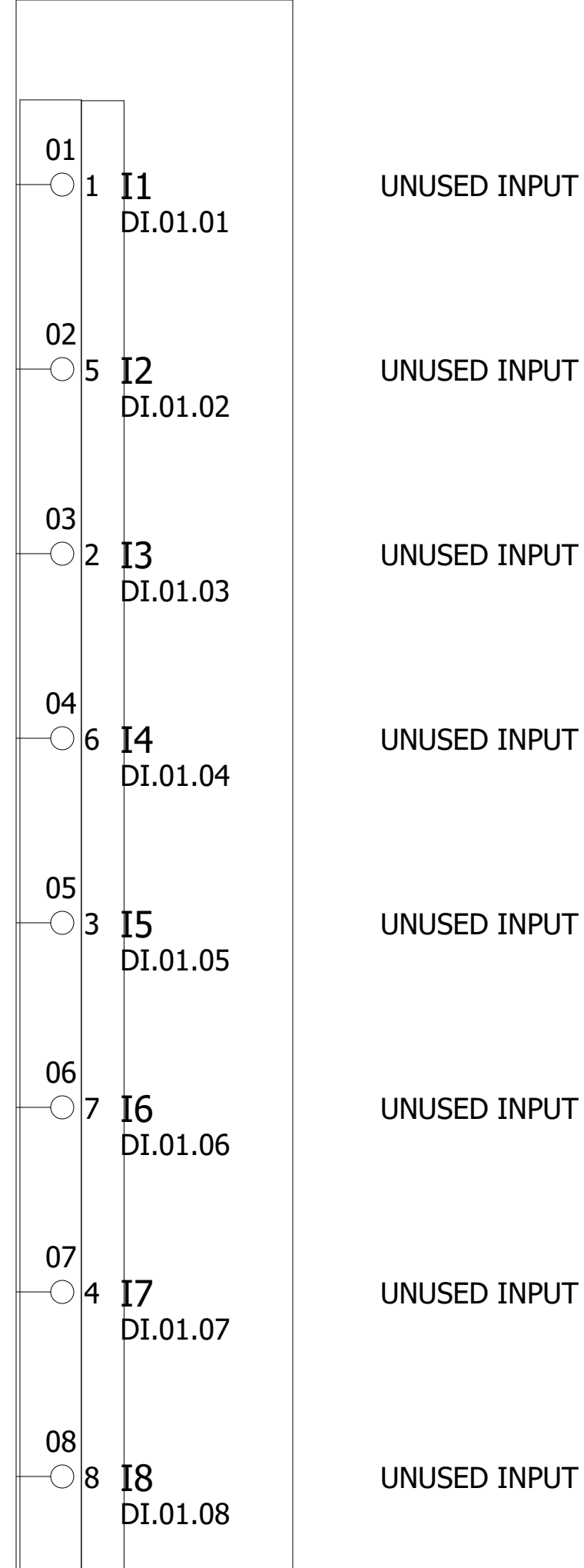


COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022 REVISION:	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006 SUPPLIER NO: XXXXXX	NAME: ROUTER 9900 HMI - MAIN OPERATOR INTERFACE	=	+	PREV PAGE: <<---	PAGE:
DESIGNER: PREM C	APPROVER:	LOC:	FACTORY:	DEPT:	OP. NO:	STA. NO:	MACH. NAME: ROUTER	DRAWING NO:	96.A
									NEXT PAGE: ---->>
									170

ETHERCAT RACK I/O OVERVIEW

+LOADER JB

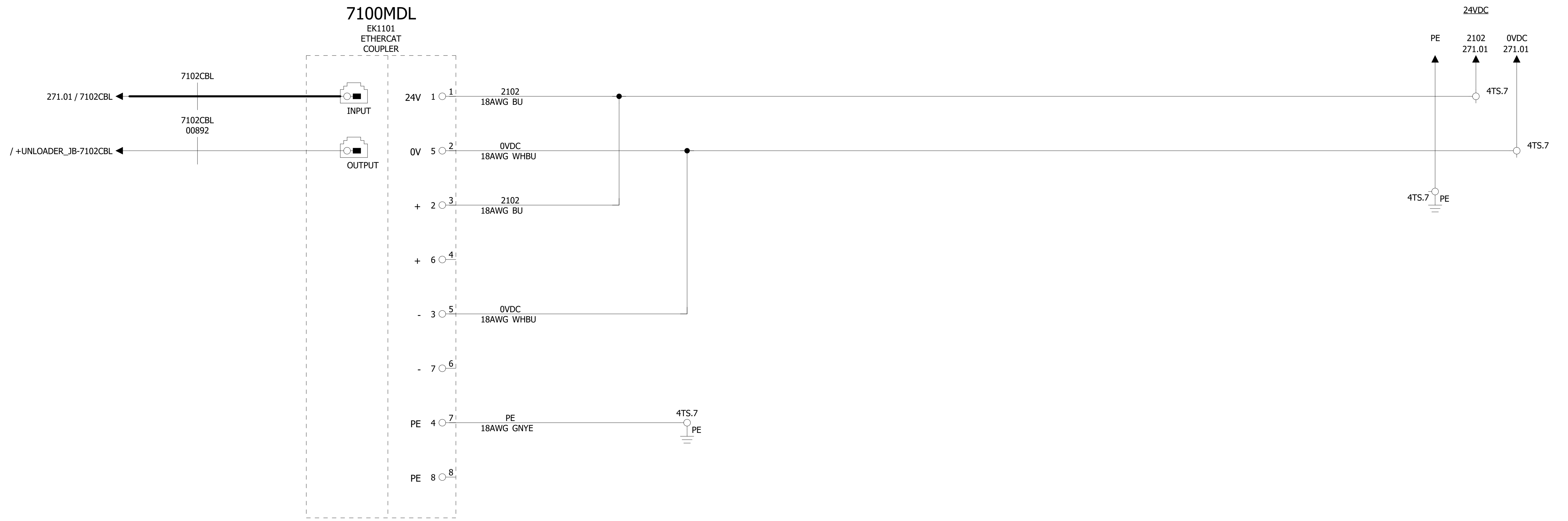
DI.01
EL1008
DIGITAL INPUT CARD



Explained: How I/O Address are Assigned DI.01.01

DI.	01.	01
FUNCTION OF SLICE	SLICE NUMBER	I/O NUMBER
DI: DIGITAL INPUT DO: DIGITAL OUTPUT RO: DIGITAL RELAY OUTPUT AI: ANALOG INPUT AO: ANALOG OUTPUT 24: 24VDC 00: 0VDC		

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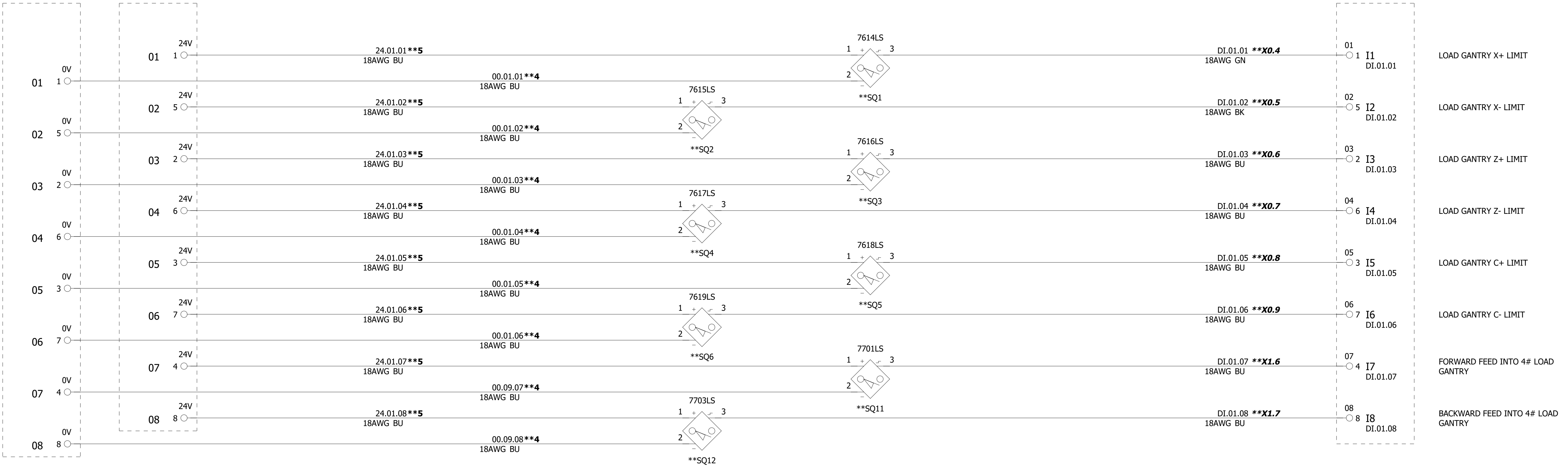
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022	ABH MANUFACTURING					ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	REVISION: -	LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX	ETHERCAT I/O COUPLER	&	PREV PAGE: <<--- 170	
	APPROVER: -						DRAWING NO: ROUTER		#	NEXT PAGE: --->> 172	

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00.01
POTENTIAL DISTRIBUTION
TERMINAL
8 x 0VDC

24.01
EL9186
POTENTIAL DISTRIBUTION
8x24VDC

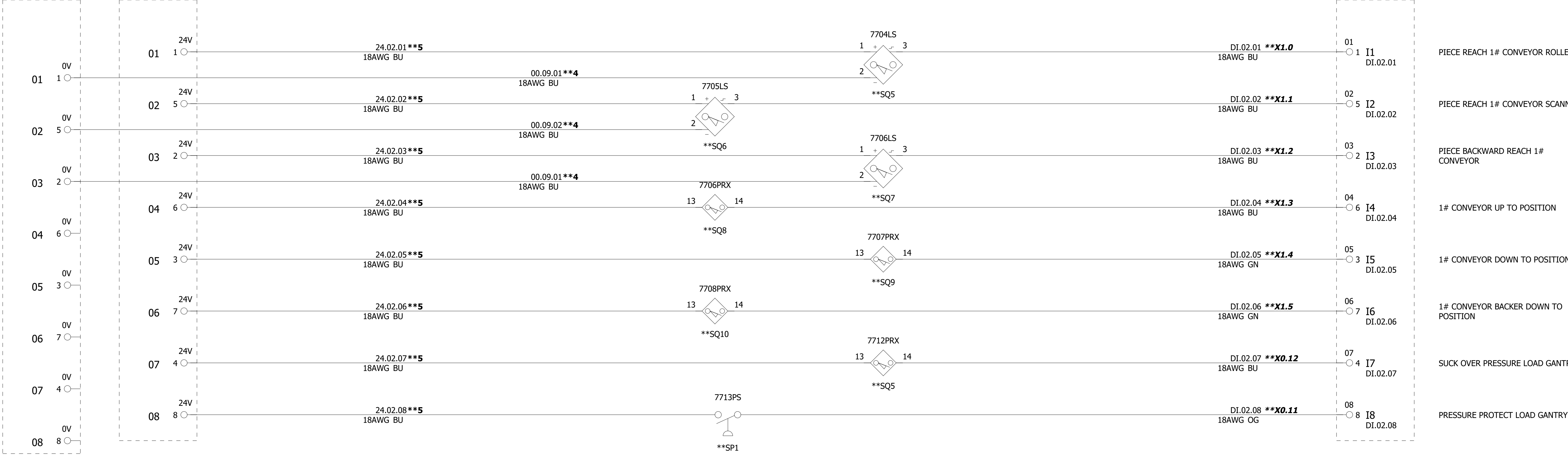
DI.01
EL1008
DIGITAL INPUT CARD



00.02
POTENTIAL DISTRIBUTION
TERMINAL
8 x 0VDC

24.02
EL9186
POTENTIAL DISTRIBUTION
8x24VDC

DI.02
EL1008
DIGITAL INPUT CARD



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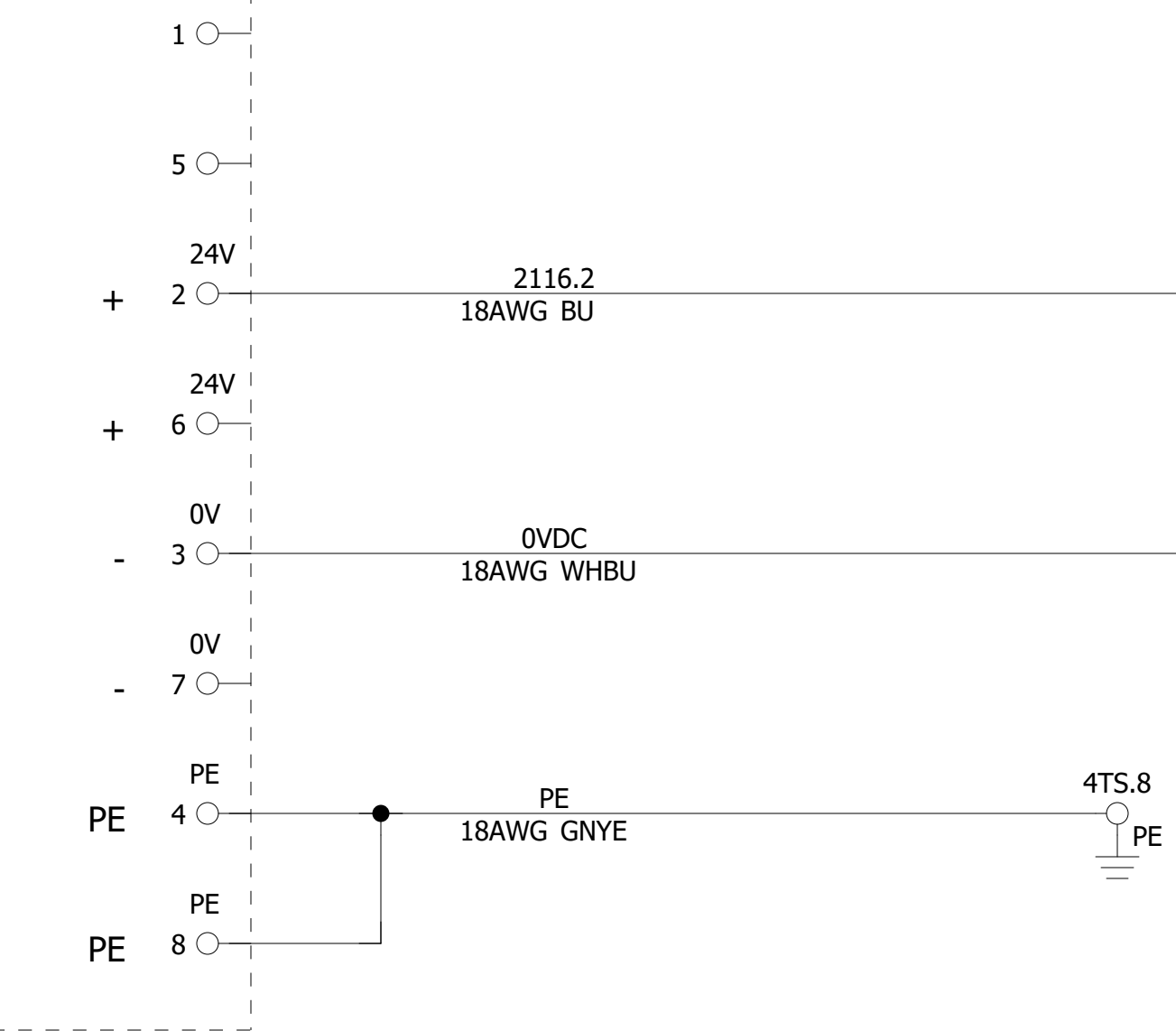
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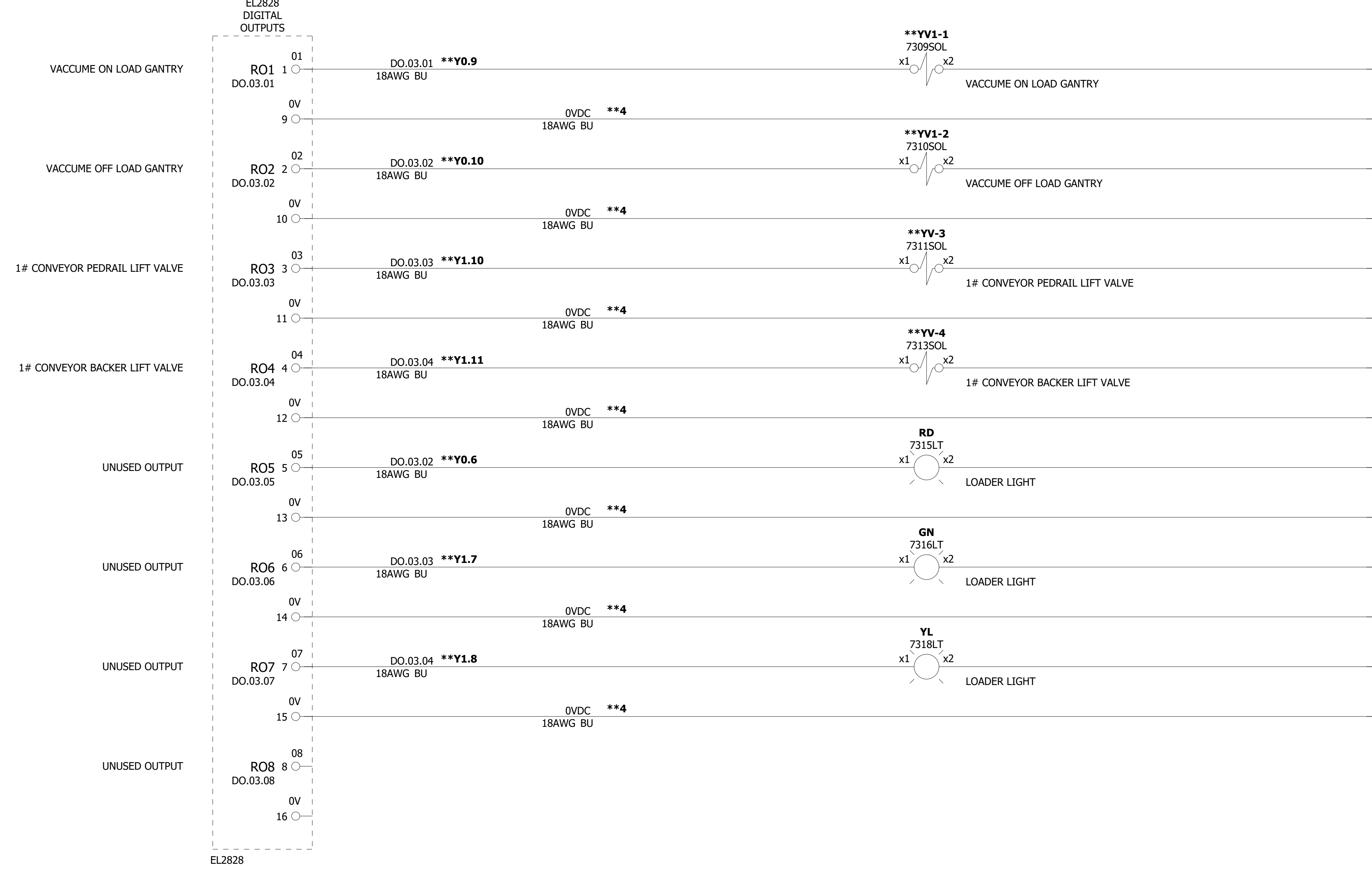
173
20

24.12
FEED TERMINAL
24VDC



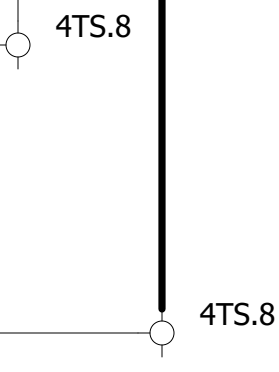
EL9100
Potential Supply terminal, 24VDC, with diagnostics

DO.03
EL2828
DIGITAL
OUTPUTS



EL2828

24VDC
BELOW
SAFETY
273.00
2116.2
21.17
0VDC



COMPANY:
MACHMOTION
NEWBURG, MISSOURI, USA

DESIGNER:
PREM C

DATE:
05.10.2022

REVISION:

APPROVER:

ABH MANUFACTURING

ALL RIGHTS RESERVED

LOC: -

FACTORY: -

DEPT: -

OP. NO: -

STA. NO: -

DRAWING NO:
S30006

SUPPLIER NO:
XXXXXX

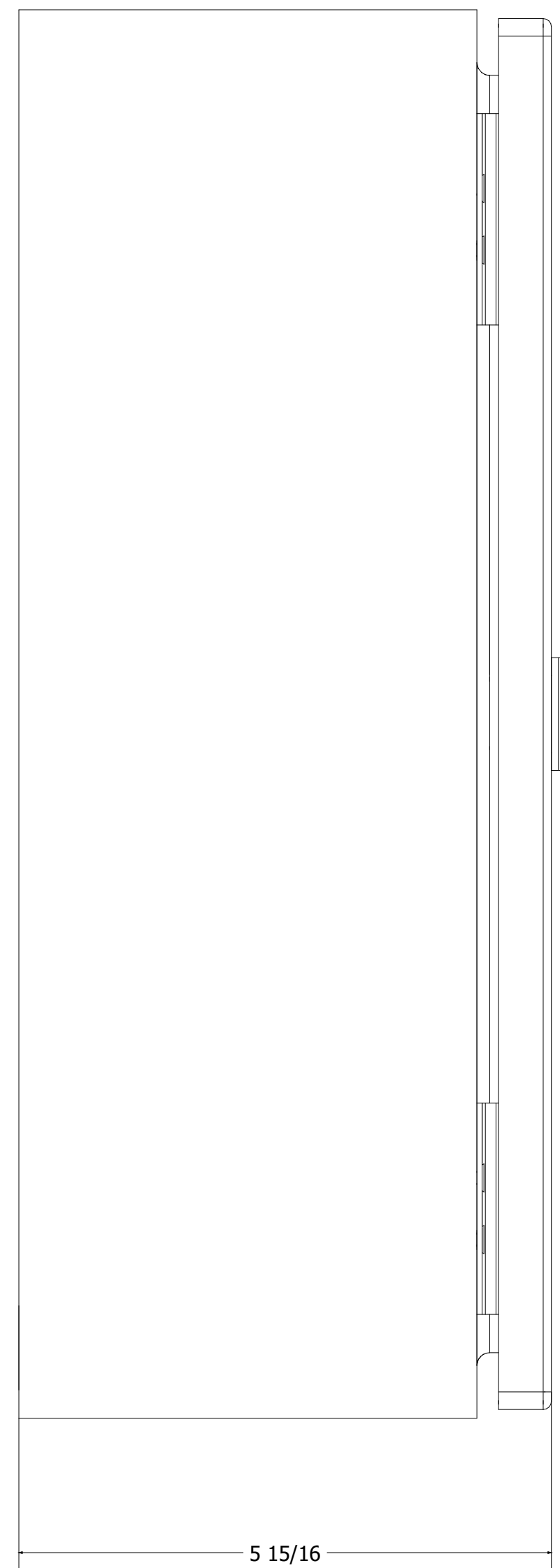
MACH. NAME:
ROUTER

DRAWING NO:

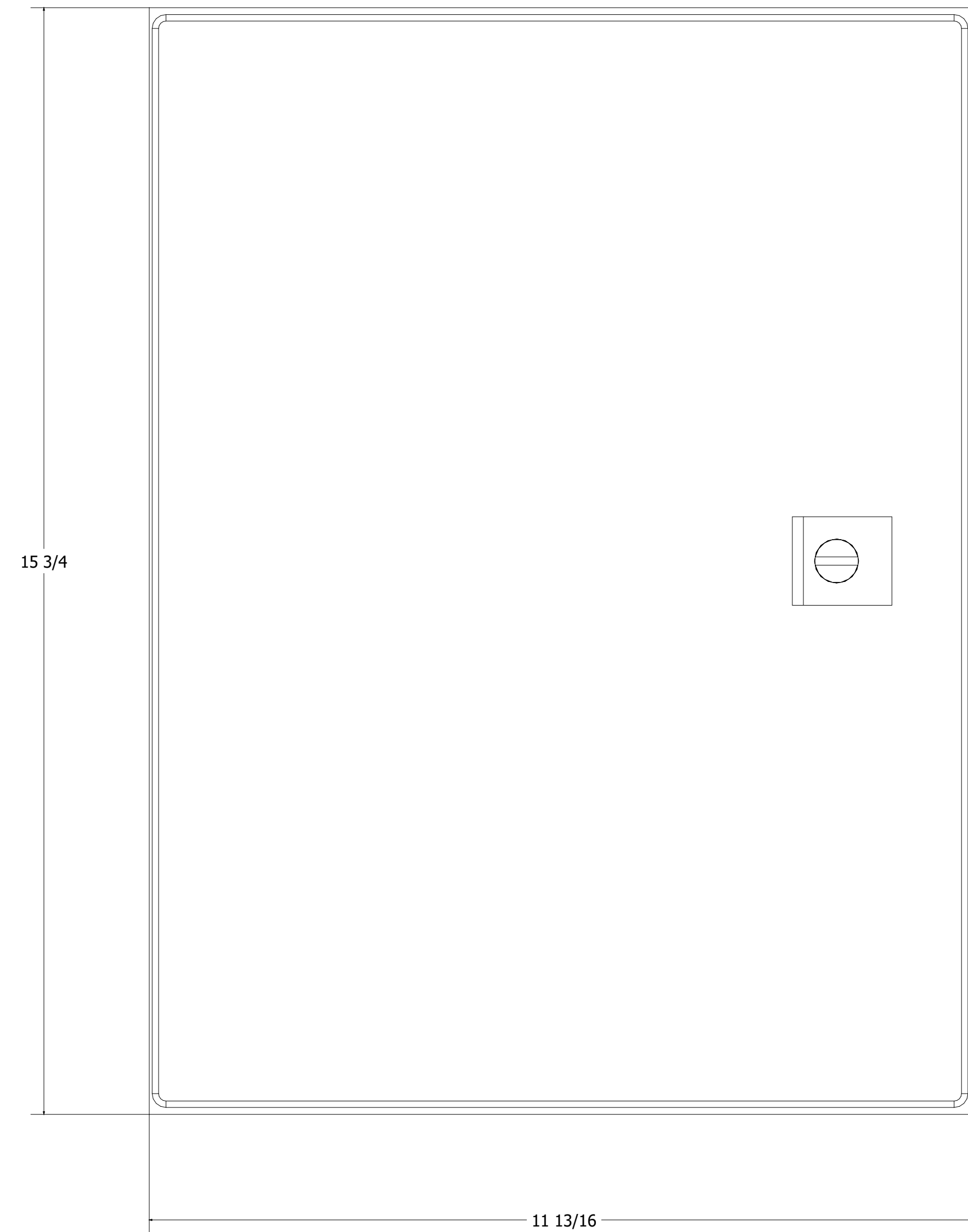
NAME:
ROUTER

ETHERCAT I/O DIGITAL OUTPUTS

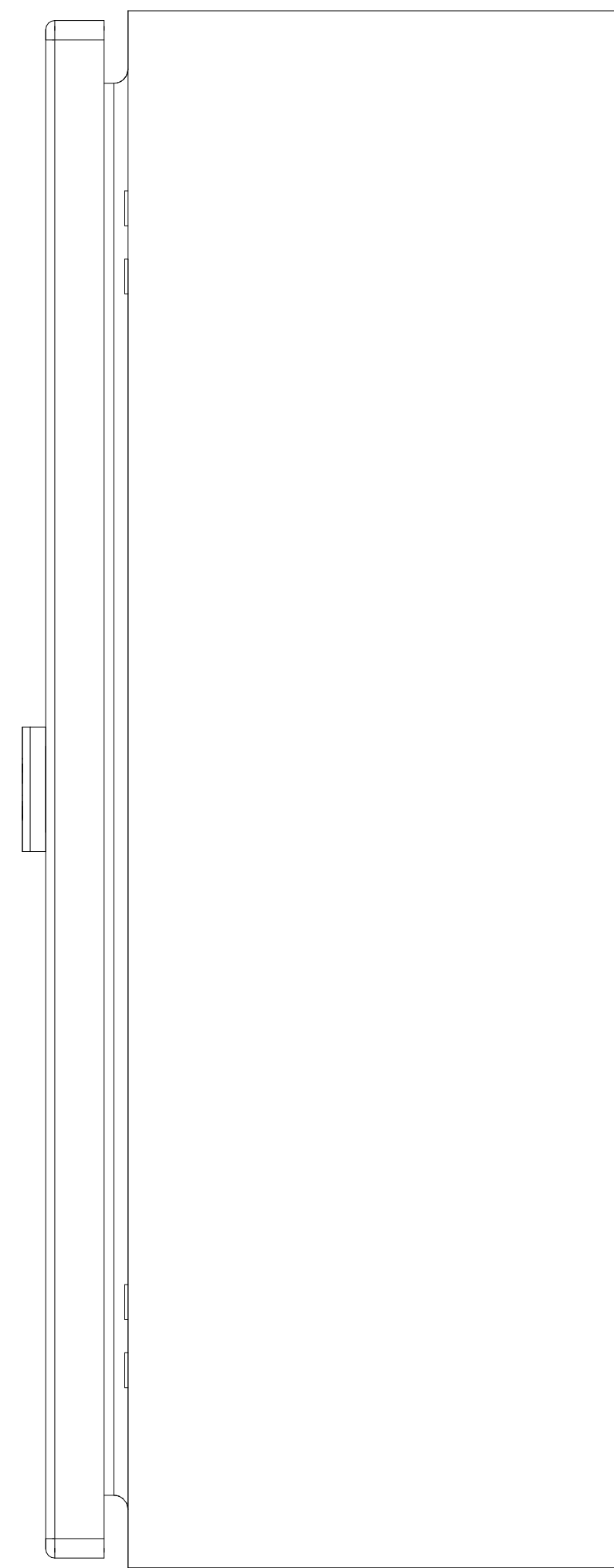
+LOADER JB



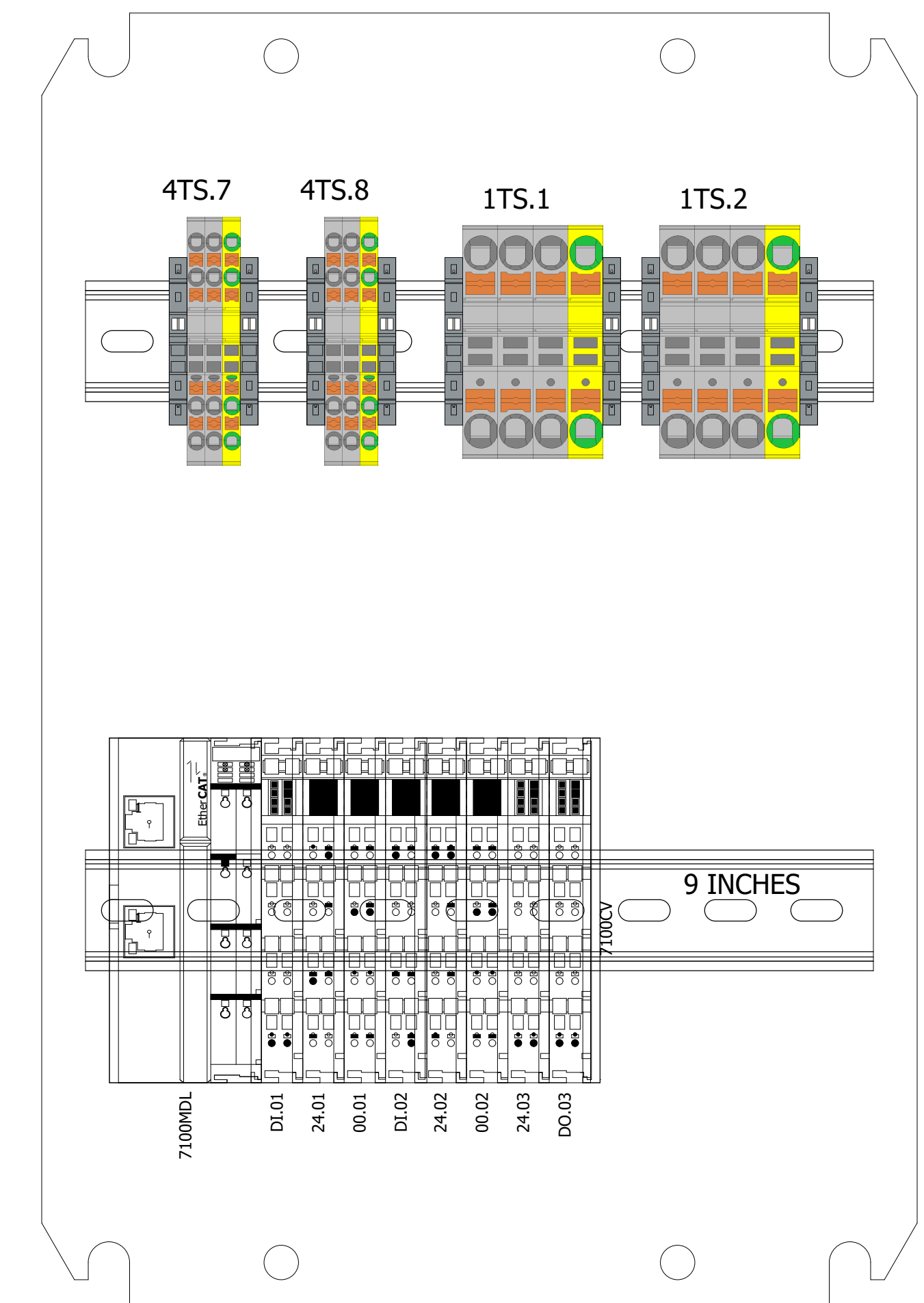
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



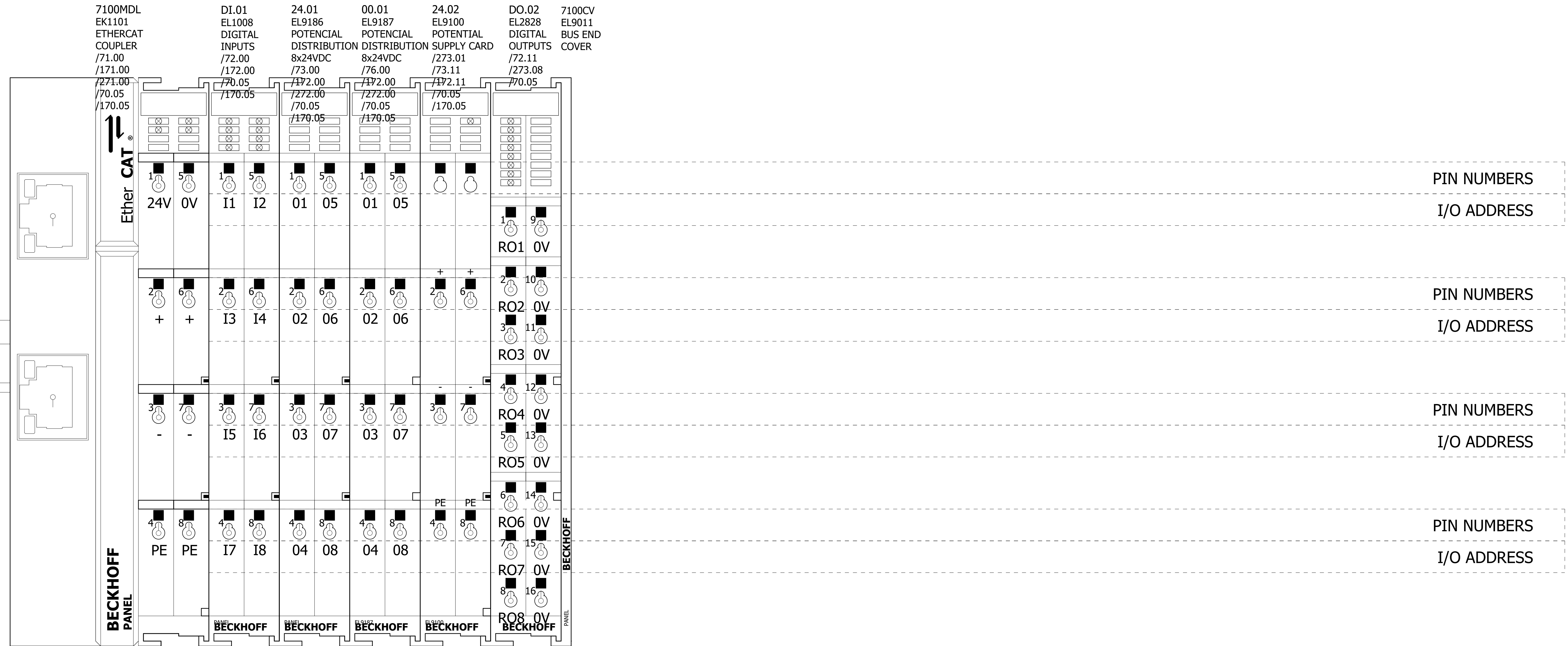
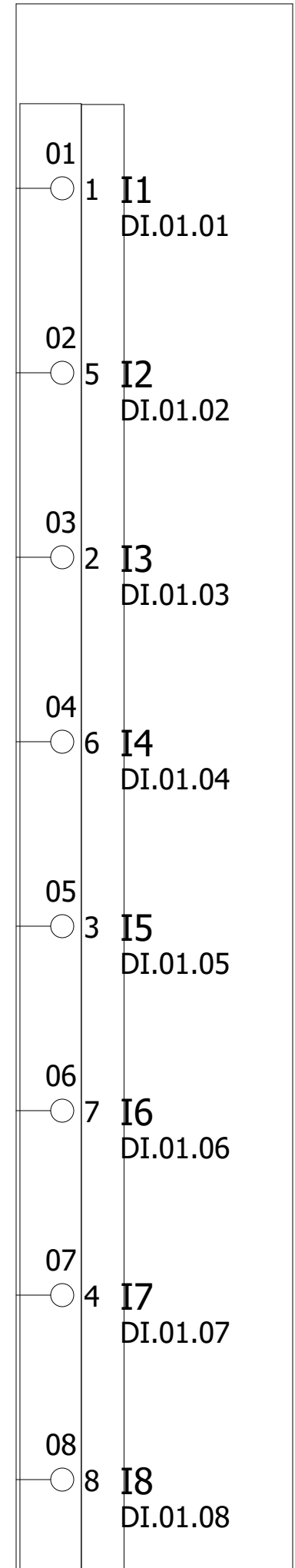
MOUNTING PLATE

COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER	
DESIGNER: PREM C		APPROVER: -		LOC: -		FACTORY: -		SUPPLIER NO: XXXXXX		ENCLOSURE & BACKPLATE	
				DEPT: -		OP. NO: -		MACH. NAME: ROUTER			
				STA. NO: -				DRAWING NO:			

ETHERCAT RACK I/O OVERVIEW

+UNLOADER JB

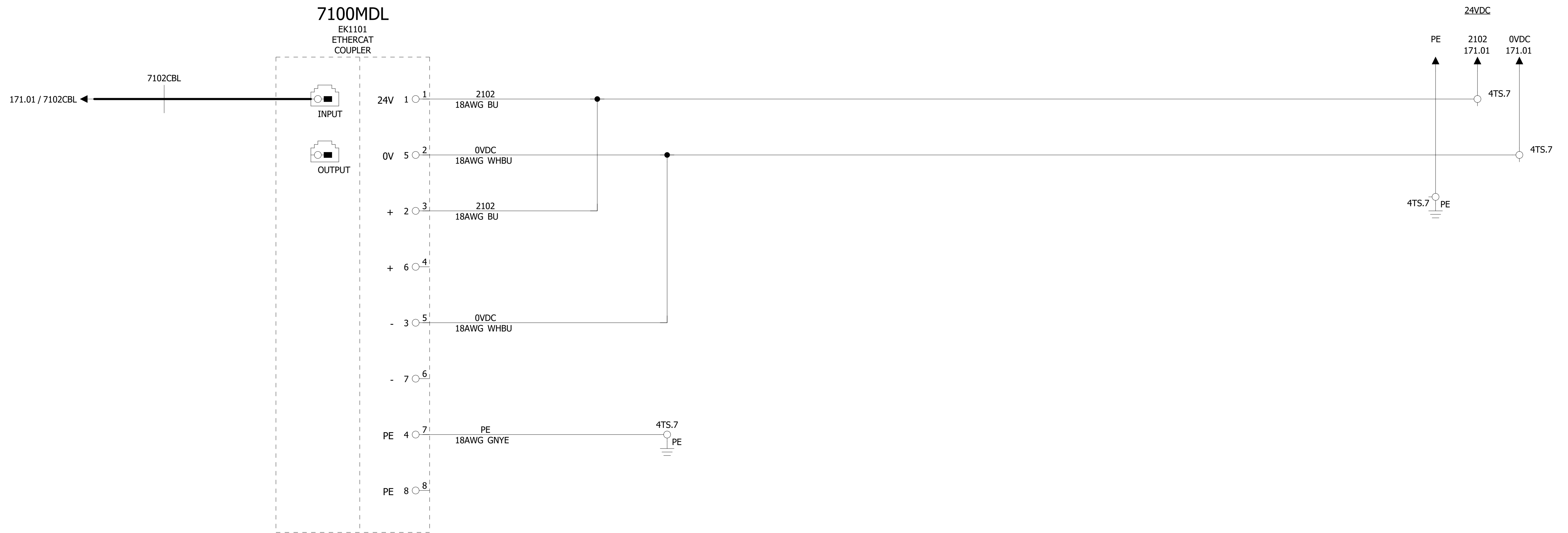
DI.01
EL1008
DIGITAL INPUT CARD



Explained: How I/O Address are Assigned DI.01.01

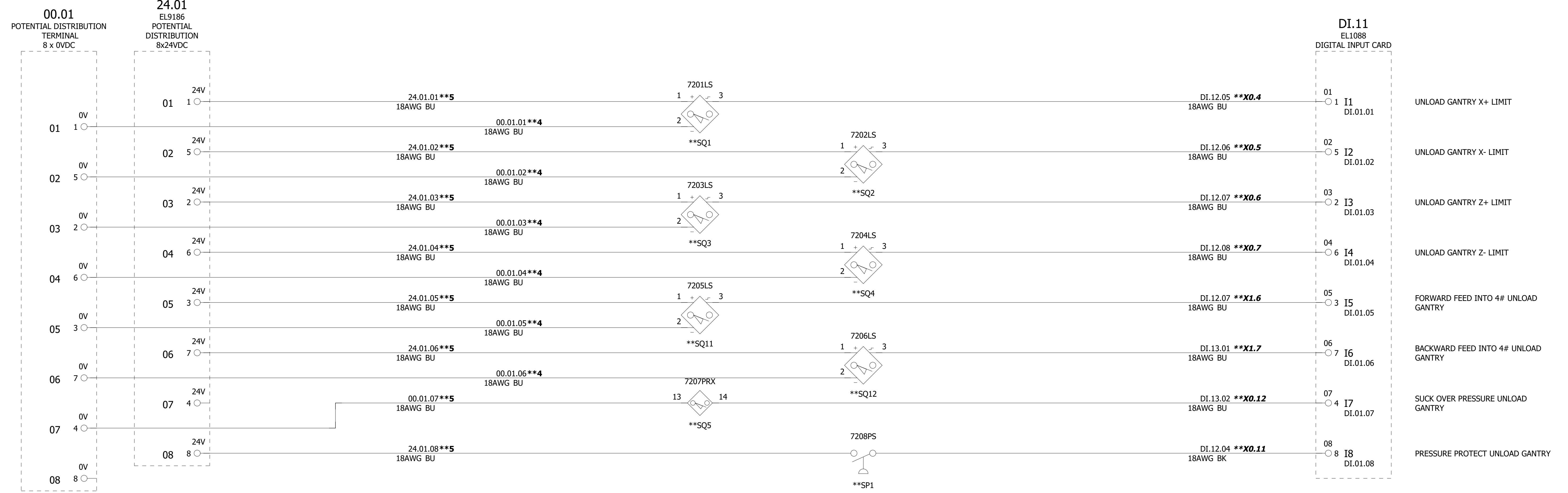
DI.	01.	01
FUNCTION OF SLICE	SLICE NUMBER	I/O NUMBER
DI: DIGITAL INPUT DO: DIGITAL OUTPUT RO: DIGITAL RELAY OUTPUT AI: ANALOG INPUT AO: ANALOG OUTPUT 24: 24VDC 00: 0VDC		

- 271 00
- 271 01
- 271 02
- 271 03
- 271 04
- 271 05
- 271 06
- 271 07
- 271 08
- 271 09
- 271 10
- 271 11
- 271 12
- 271 13
- 271 14
- 271 15
- 271 16
- 271 17
- 271 18
- 271 19
- 271 20



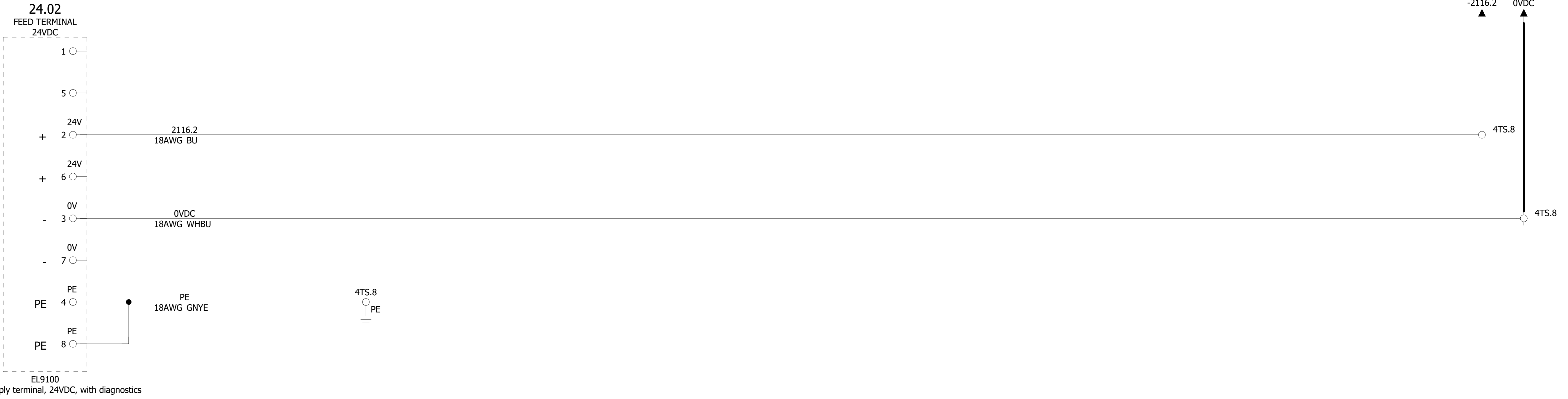
COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	PREV PAGE: <<--- PAGE: 270
							NEXT PAGE: --->> PAGE: 272
							#

272 00
272 01
272 02
272 03
272 04
272 05
272 06
272 07
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272 13
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272 17
272 18
272 19
272 20

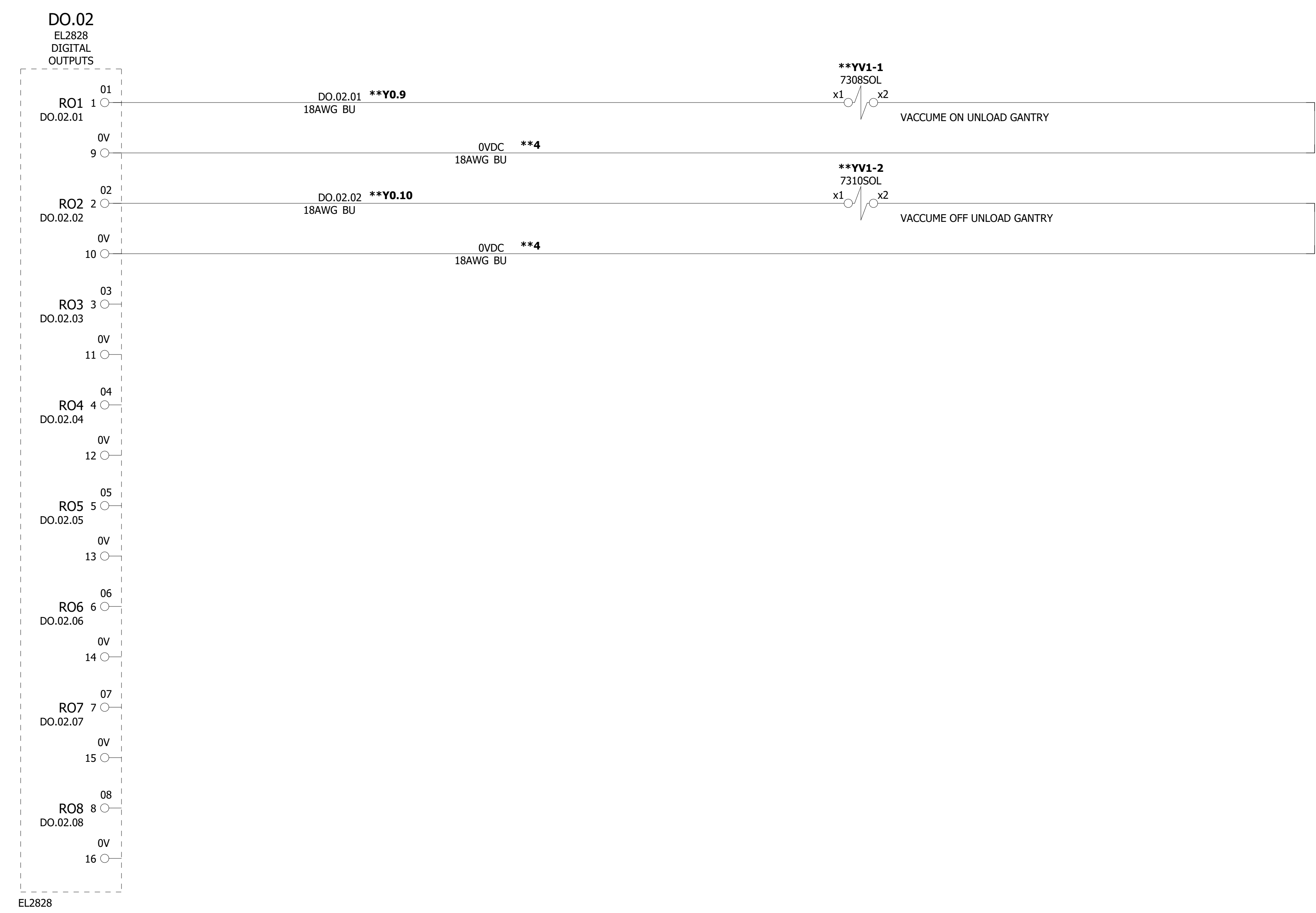


COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	APPROVER: -	LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	PREV PAGE: <<--- 271
							NEXT PAGE: --->>> 273
							#

273 00
273 01
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273 19
273 20

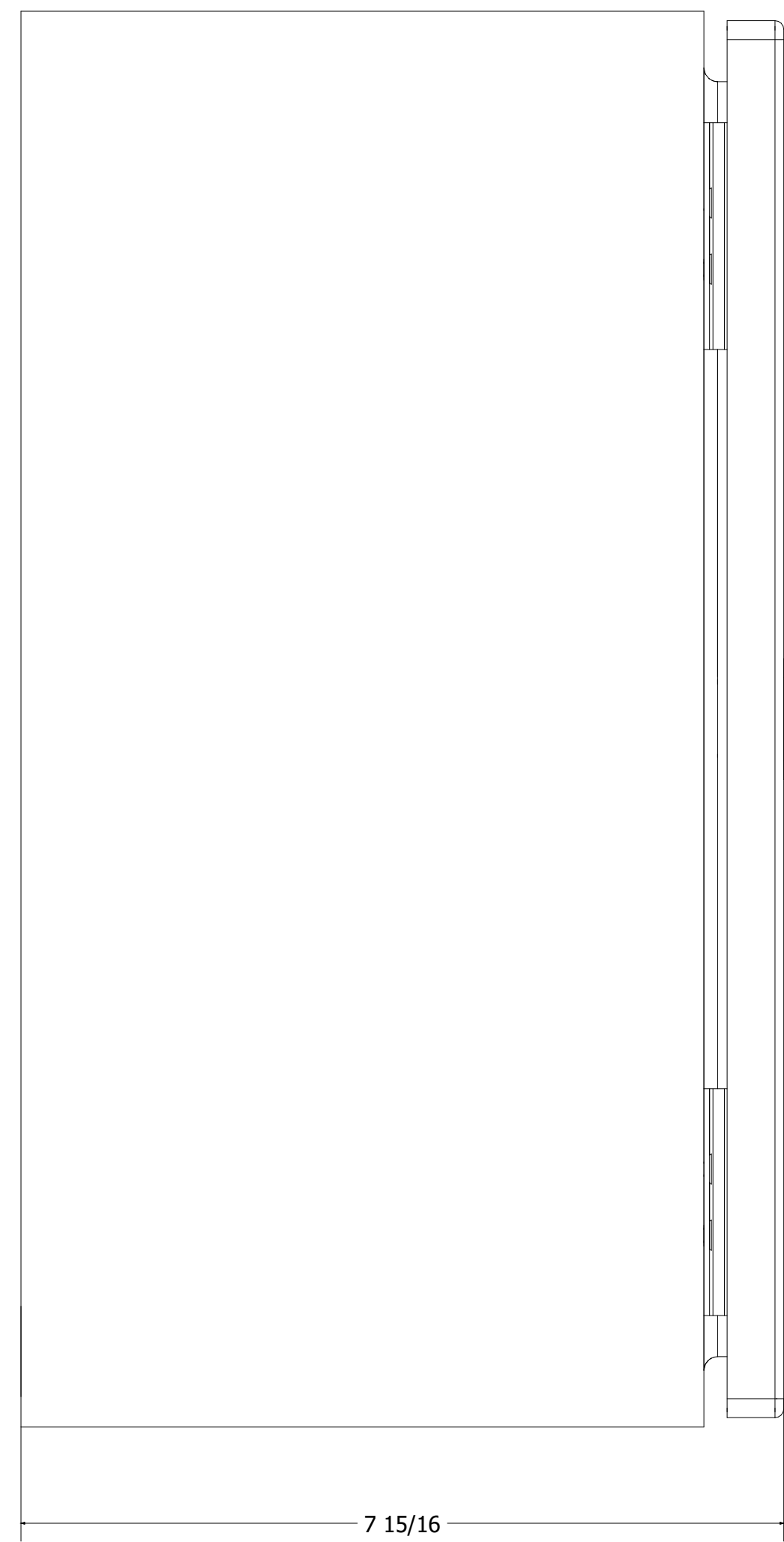


24VDC
BELOW
SAFETY
173.00
-2116.2
21.18
0VDC

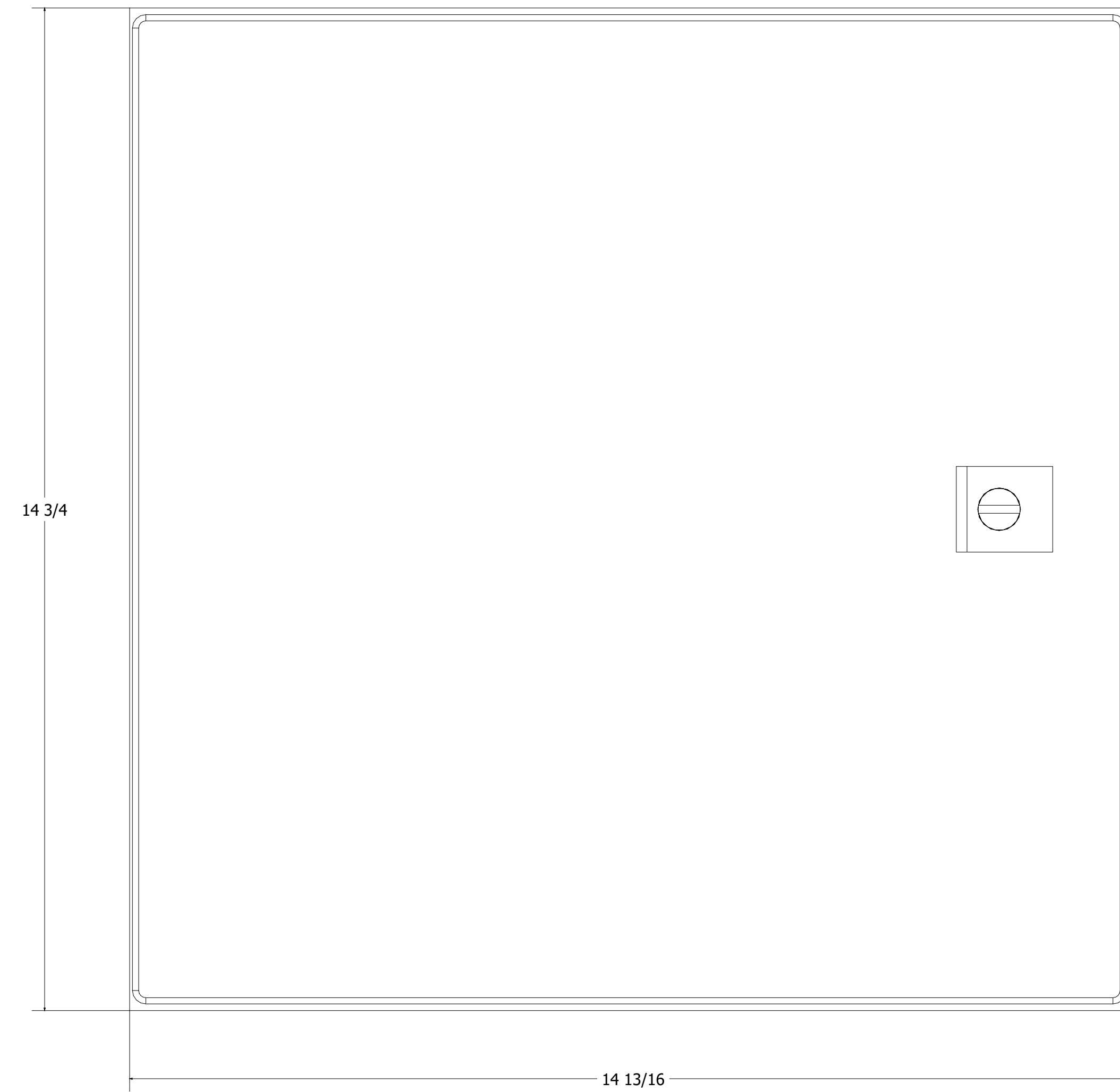


COMPANY: MACHMOTION NEWBURG, MISSOURI, USA	DATE: 05.10.2022	ABH MANUFACTURING	ALL RIGHTS RESERVED	DRAWING NO: S30006	NAME: ROUTER	=	+
DESIGNER: PREM C	REVISION:	LOC:	FACTORY:	SUPPLIER NO: XXXXXX	ETHERCAT I/O DIGITAL OUTPUTS	&	PREV PAGE: <<--- PAGE: 272
APPROVER:	-	DEPT:	OP. NO:	MACH. NAME: ROUTER	DRAWING NO:	#	NEXT PAGE: --->> 274

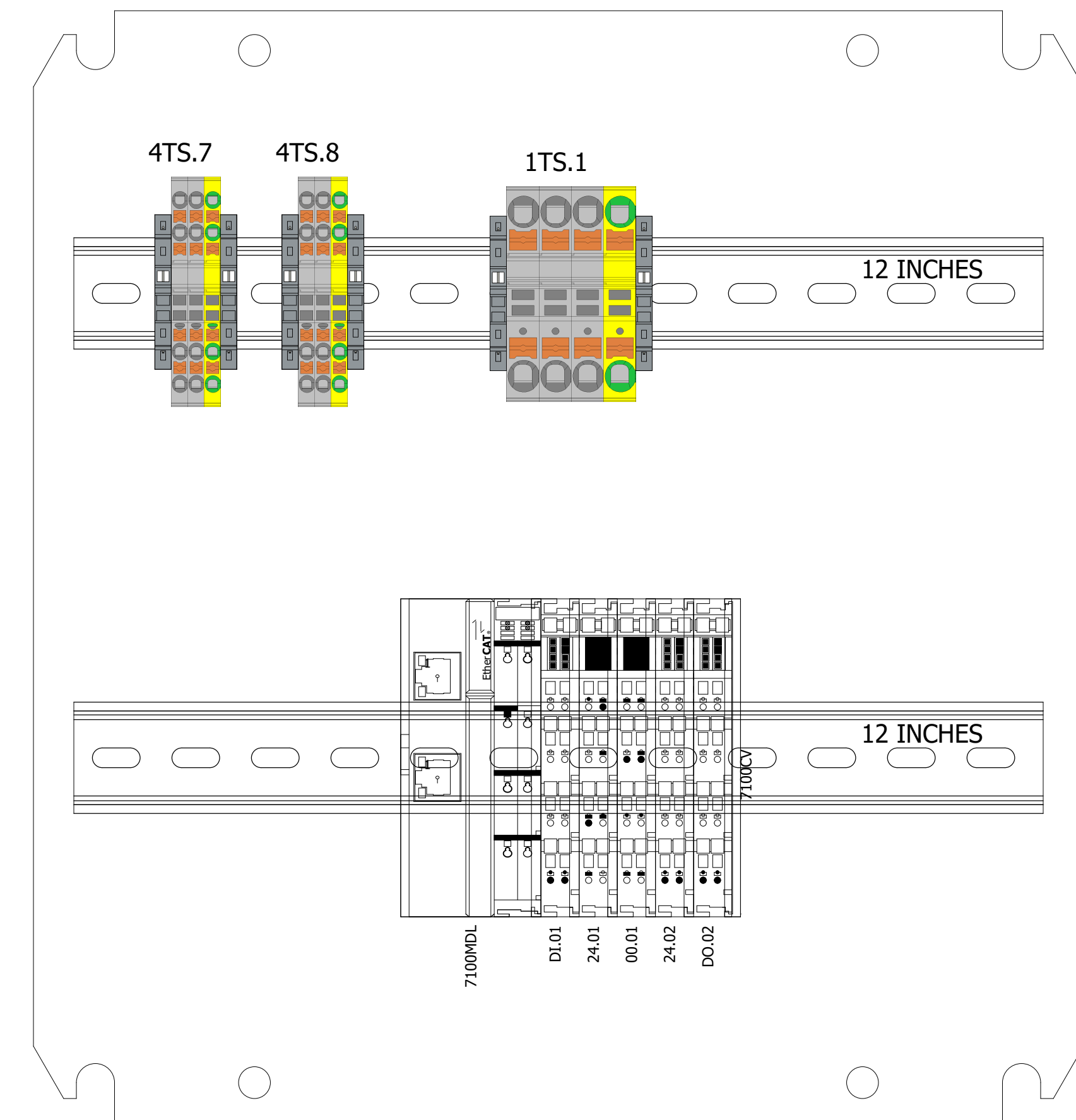
+UNLOADER JB



LEFT SIDE VIEW



FRONT VIEW



MOUNTING PLATE

COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXXX		ENCLOSURE & BACKPLATE		PREV PAGE: <<--->		PAGE: 273	
								MACH. NAME: ROUTER		DRAWING NO:		NEXT PAGE: --->>>		371		

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 1005GNDBAR		
Terminal	Jumper	Remark
2	'	
3	'	
PE	'	
PE	'	
PE	'	
PE	'	
PE	'	
PE	'	
PE	'	
PE	'	
PE	'	

COMPANY: MACHMOTION NEWBURG, MISSOURI, USA		DATE: 05.10.2022		ABH MANUFACTURING		ALL RIGHTS RESERVED		DRAWING NO: S30006		NAME: ROUTER		=		+		
DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-1005GNDBAR		PREV PAGE: <<--->		PAGE: 274	
									MACH. NAME: ROUTER		DRAWING NO:		NEXT PAGE: --->>		371	
													#		372	

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 1006GNDBAR		
Terminal	Jumper	Remark
PE	,	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-1006GNDBAR		PREV PAGE: <<--- 371		PAGE: 372	
									DRAWING NO:		#		NEXT PAGE: --->> 373			

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 1TS.1		
Terminal	Jumper	Remark
1100L1.2	'	
1100L2.2	'	
1100L3.2	'	
1105L1	'	
1105L2	'	
1105L3	'	
1110L1	'	
1110L2	'	
1110L3	'	
1115L1	'	
1115L2	'	
1115L3	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-1TS.1		PREV PAGE: <<--->		PAGE: 372	
								DRAWING NO:				NEXT PAGE: --->>		374		
												#		373		

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 2TS.2		
Terminal	Jumper	Remark
1302L	'	
1302N	'	
2114.2	'	
2116.2	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-2TS.2		PREV PAGE: <<---		PAGE: 373	
									DRAWING NO:				NEXT PAGE: --->>		374	
									ROUTER				#			

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 2TS.3		
Terminal	Jumper	Remark
1402L1	●	
1402L1	●	
1402L2	●	
1402L2	●	
PE	,	
PE	,	

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DESIGNER: PREM C		APPROVER:		LOC:	FACTORY:	DEPT:	OP. NO:	STA. NO:	SUPPLIER NO: XXXXXX		Terminal line-up diagram =+-2TS.3		PREV PAGE: <<---		PAGE: 374	
		-		-	-	-	-	-	DRAWING NO:				NEXT PAGE: ---->>		375	
									ROUTER				#		376	

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 2TS.4		
Terminal	Jumper	Remark
1213L1.2	'	
1213L2.2	'	
PE	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-2TS.4		PREV PAGE: <<--->		PAGE: 375	
								DRAWING NO:				NEXT PAGE: --->>		376		
												#		377		

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 3TS.1		
Terminal	Jumper	Remark
1402.2	'	
0VDC	'	
PE	'	
PE	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-3TS.1		PREV PAGE: <<--->		PAGE: 376	
									DRAWING NO:				NEXT PAGE: --->>>		377	
									ROUTER				#		378	

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 4TS.2		
Terminal	Jumper	Remark
1402.2	'	
0VDC	'	
PE	'	
E10	'	
E11	'	
E20	'	
E21	'	
E31	'	
E41	'	
E51	'	
E61	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-4TS.2		PREV PAGE: <<---		PAGE: 378	
								DRAWING NO:				NEXT PAGE: ---->>		379		
												#		380		

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 4TS.7		
Terminal	Jumper	Remark
2102	'	
2102	'	
0VDC	'	
PE	'	
PE	'	
PE	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		DRAWING NO:		Terminal line-up diagram =+-4TS.7		PREV PAGE: <<--- PAGE: 379	
								MACH. NAME: ROUTER				#		NEXT PAGE: --->> 381		

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 4TS.8		
Terminal	Jumper	Remark
2116.2	'	
PE	'	
0VDC	'	
2116.2	'	
0VDC	'	
2116.2	'	
PE	'	
PE	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-4TS.8		PREV PAGE: <<---		PAGE: 380	
								DRAWING NO:				NEXT PAGE: ---->>		381		
												#		382		

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 5TS.1		
Terminal	Jumper	Remark
1414.2	●	
1414.2	●	
1414.2	●	
1414.2	●	
1414.2	●	
1414.2	●	
0VDC	●	
0VDC	●	
0VDC	●	
0VDC	●	
0VDC	●	
0VDC	●	
PE	,	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-5TS.1		PREV PAGE: <<---		PAGE: 381	
								DRAWING NO:				NEXT PAGE: ---->>		382		
												#		383		

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 5TS.8		
Terminal	Jumper	Remark
5218	'	
5219	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-5TS.8		PREV PAGE: <<---		PAGE: 382	
								DRAWING NO:				NEXT PAGE: --->>		383		
												#		384		

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 5TS.9		
Terminal	Jumper	Remark
5318	'	
5319	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-5TS.9		PREV PAGE: <<---		PAGE: 383	
								DRAWING NO: ROUTER				NEXT PAGE: --->>		384		
												#		385		

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 5TS.10		
Terminal	Jumper	Remark
5618	'	
5619	'	

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DESIGNER: PREM C		APPROVER:		LOC:	FACTORY:	DEPT:	OP. NO:	STA. NO:	SUPPLIER NO: XXXXX	Terminal line-up diagram =+-5TS.10		PREV PAGE: <<---		PAGE: 384	
		-		-	-	-	-	-	MACH. NAME: ROUTER	DRAWING NO:		NEXT PAGE: ---->>		385	
												#		386	

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 5TS.11		
Terminal	Jumper	Remark
5818.A	'	
5819.A	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-5TS.11		PREV PAGE: <<---		PAGE: 385	
									DRAWING NO:				NEXT PAGE: --->>		386	
									ROUTER				#		387	

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 5TS.12		
Terminal	Jumper	Remark
5818.B	'	
5819.B	'	

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DESIGNER: PREM C		APPROVER:		LOC:	FACTORY:	DEPT:	OP. NO:	STA. NO:	SUPPLIER NO: XXXXX		Terminal line-up diagram =+-5TS.12		PREV PAGE: <<---		PAGE: 386	
		-		-	-	-	-	-	MACH. NAME: ROUTER		DRAWING NO:		NEXT PAGE: ---->>		391	
															387	

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 1TS.1		
Terminal	Jumper	Remark
6000PE	'	
6000U	'	
6000V	'	
6000W	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX	Terminal line-up diagram =+LOADER_JB-1TS.1		PREV PAGE: <<---		PAGE: 387	
									MACH. NAME: ROUTER	DRAWING NO:		NEXT PAGE: ---->>		391	
												#		392	

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 1TS.2		
Terminal	Jumper	Remark
6016PE	'	
6016U	'	
6016V	'	
6016W	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+LOADER_JB-1TS.2		PREV PAGE: <<--- 391		PAGE: 392	
									DRAWING NO:				NEXT PAGE: --->> 401		#	

Terminal Rotation

Read Top to Bottom and Left to Right

Terminal strip 1TS.1		
Terminal	Jumper	Remark
6516PE	'	
6516U	'	
6516V	'	
6516W	'	

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DESIGNER: PREM C		APPROVER: -		LOC: -	FACTORY: -	DEPT: -	OP. NO: -	STA. NO: -	SUPPLIER NO: XXXXX		Terminal line-up diagram =+UNLOADER_JB-1TS.1		PREV PAGE: <<---		PAGE: 392	
								DRAWING NO:				NEXT PAGE: --->>				
												#		401		