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1	2	3	4	5	6	7	8
	Stomme, ramverk/ Functional equipotential bonding		Slutkontakt/ Make contact, general.		Strömtransformator/ Current transformer.		Column coordinate number on the drawing
	Stomme, ramverk/ Functional equipotential bonding		Handmanövrerad brytare, allmän/ Switch manually operated, general.		Likström, DC / Direct current, DC.		Wire/connector one colour code. BK = Black, BN = Brown, RD = Red, OG = Orange YE = Yellow, GN = Green, BU = Blue, VT = Violet GY = Grey, WH = White, PK = Pink, TQ = Turquoise . . .
	Jord, allmän symbol/ Earth , general symbol.		Styrning med spak/ Actuator (operated by lever).		Växelström, AC / Alternating current, AC.		Wire/connector two colour code.  Example 1 : WH/RD = White and Red. Example 2 : GNYE = Green and Yellow.  Example: Cable with four colour coded wire, square area AWG24 and cable number 709.
	Störningsfri jord/ Functional earthing.		Styrning genom vridning/ Actuator(operated by turning).		Styrning, elektromagnetisk styrdon/ Actuator, by electromagnetic.		
	Skyddsjord/ Protective earthing.		Styrning genom tryckning/ Actuator(operated by pushing).	Ethernet signal: 1. Transmit TX+ or TX- and receive RX+ or RX- 2. Unit possible to transmit or recieve TX+/RX+ or TX-/RX- 3. Ethernet Gigabit signal, transmit pair one MX1+ , MX1- and receive the MX2+ , MX2- If Gigabit transmit pair MX3+ , MX3- and receive pair MX4+ , MX4-			
	Tvinnade ledare/ Twisted conductors.		Skarvhylsa Through joint	Translation table square area from AWG to mm2.			
	Trippel tvinnade ledare/ Triple twisted conductors.		Filter/ Filter.				
	Fyrdubbelt tvinnade ledare/ Quadruple twisted conductors.		Lampa/ Lamp.	Run chain presentation starts at sheet 26. The Run chain marked as a wider wire.  <u>Example: Run chain marked with a wider wire.</u>  <u>Example: Not Run chain marked with a thin wire.</u>			
	Tvinnade ledare part A med part B Twisted conductors part A with part B		Kontakthylsa hona/ Socket outlet female.	Example, showing how to read the information before and after a signal.			
	Skärm/ Shield.		Kontaktstift hane/ Pin male.				
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Valid for:  
This circuit diagram is valid for the following cable harness assemblies:

- Harness for Controller:
- 3HAC050414-001 Harness XP0 - Q1
  - 3HAC047354-001 Harness Q1 - G1
  - 3HAC047355-001 Harness G1 - G2
  - 3HAC050886-001 Harness PS\_AC\_OK
  - 3HAC047356-001 Harn-24V distribution
  - 3HAC035979-001 Harn-Measure link
  - 3HAC038361-001 Harn-Brake release
  - 3HAC047611-001 Harness DeviceNet
  - 3HAC036724-001 Harn-GTPU conn.
  - 3HAC047612-001 Harness digital IO
  - 3HAC047971-001 Harn-ProfiBUS. panel link
  - 3HAC039244-001 Harn-Eth. panel link
  - 3HAC050513-001 Harn-EtherNet to IO
  - 3HAC051176-001 Harn-Emergency stop
  - 3HAC051991-001 Earth cable
  - 3HAC039336-001 Harn-USB panel adapter
  - 3HAC026525-001 Fan with receptacle
  - 3HAC021975-001 Harness-DSQC604/Computer unit USB
  - 3HAC024254-00\* Ethernet cable straight con
  - 3HAC052545-001 Basic Wire Markiing Set\_IRB14000
  - 3HAC050887-001 Hall Sensor Interface Board

- Harness for Arm:
- 3HAC047242-001 Cable harness\_IRB14000
  - 3HAC048879-001 Hall Sensor Signal Cable(3Pin)

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2015-02-09 First version Ver00

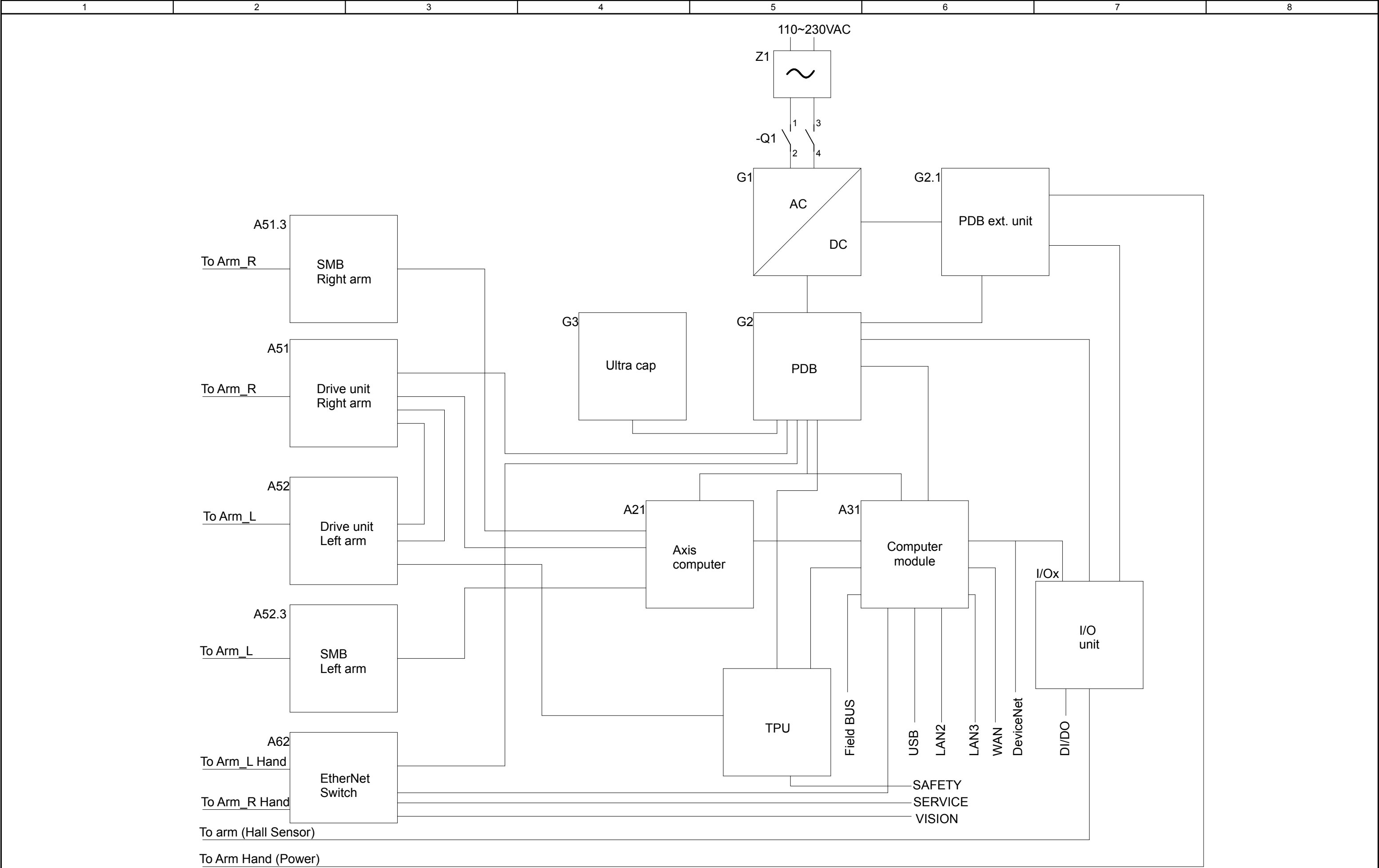
2015-03-25 Ver01  
"UL Lamp" changed to "Singnal Lamp".  
Controller side view updated.


2015-10-15 Ver02  
Page38,45 add PE5, PE6

2016-01-28 Ver03  
Page26,27 change description about hand IO  
Page18, 19, 25, 26, 30, 31, 32, 34 add cable number labels.

2016-06-06 Ver04  
Page26.1 added. (For option of safety relay)

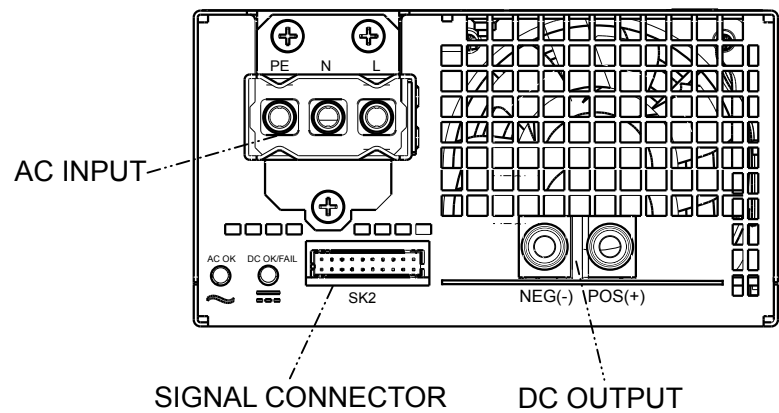
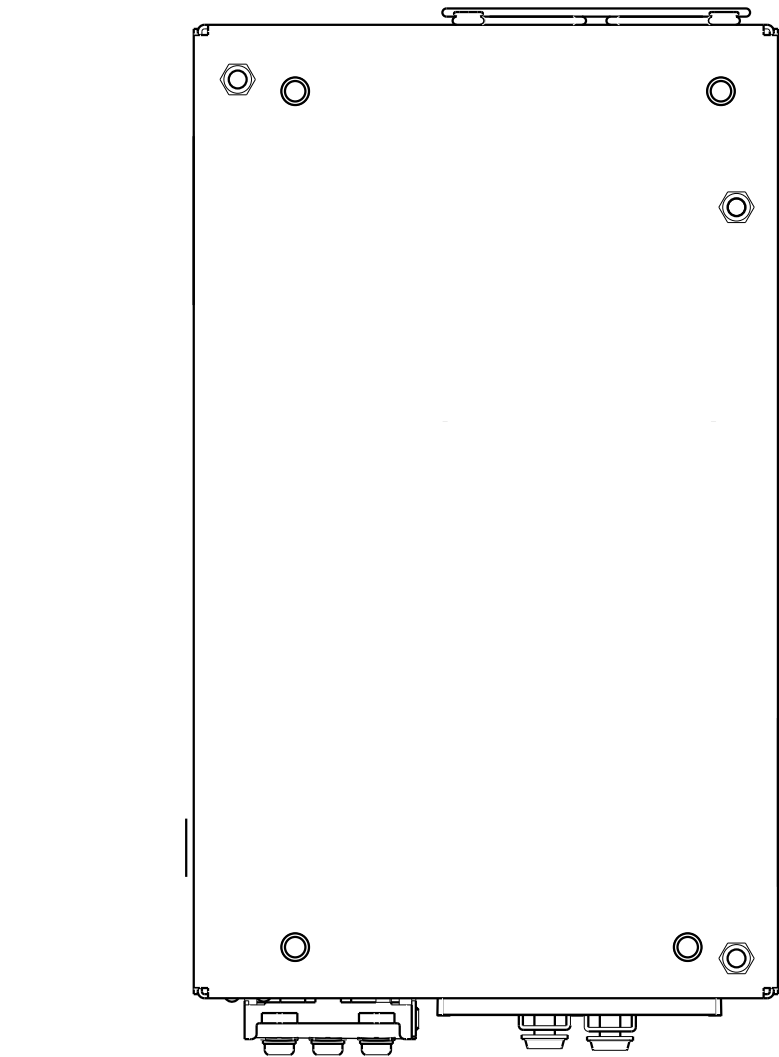
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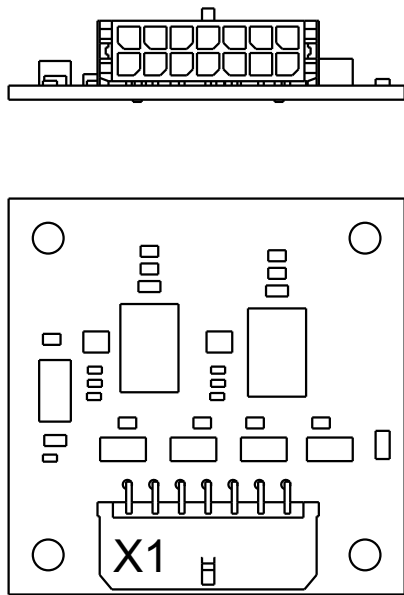
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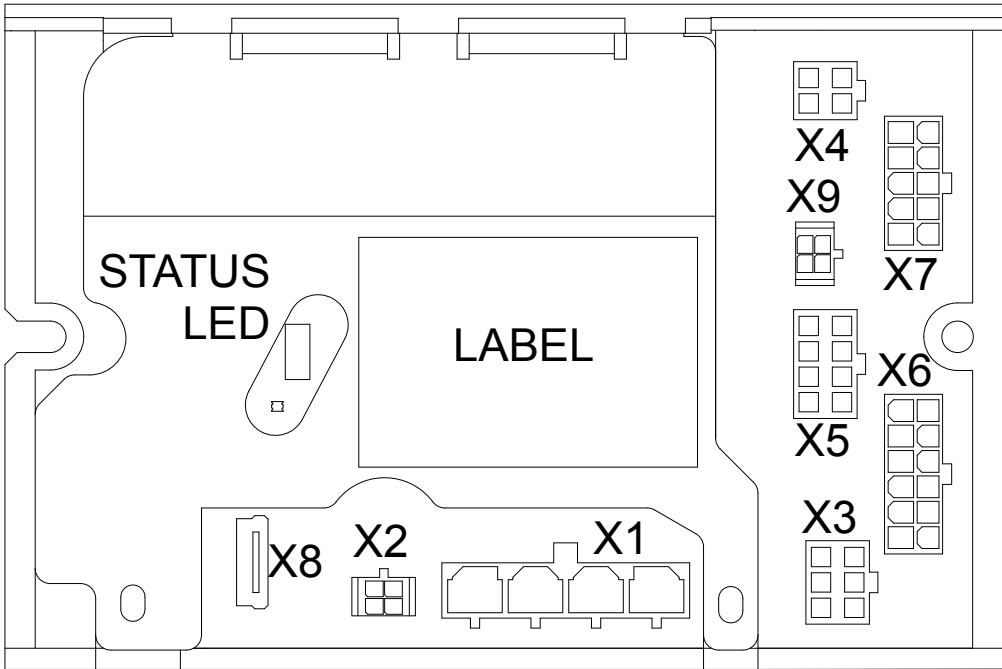
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G1 POWER SUPPLY



G2.1 PDB EXTENSION BOARD



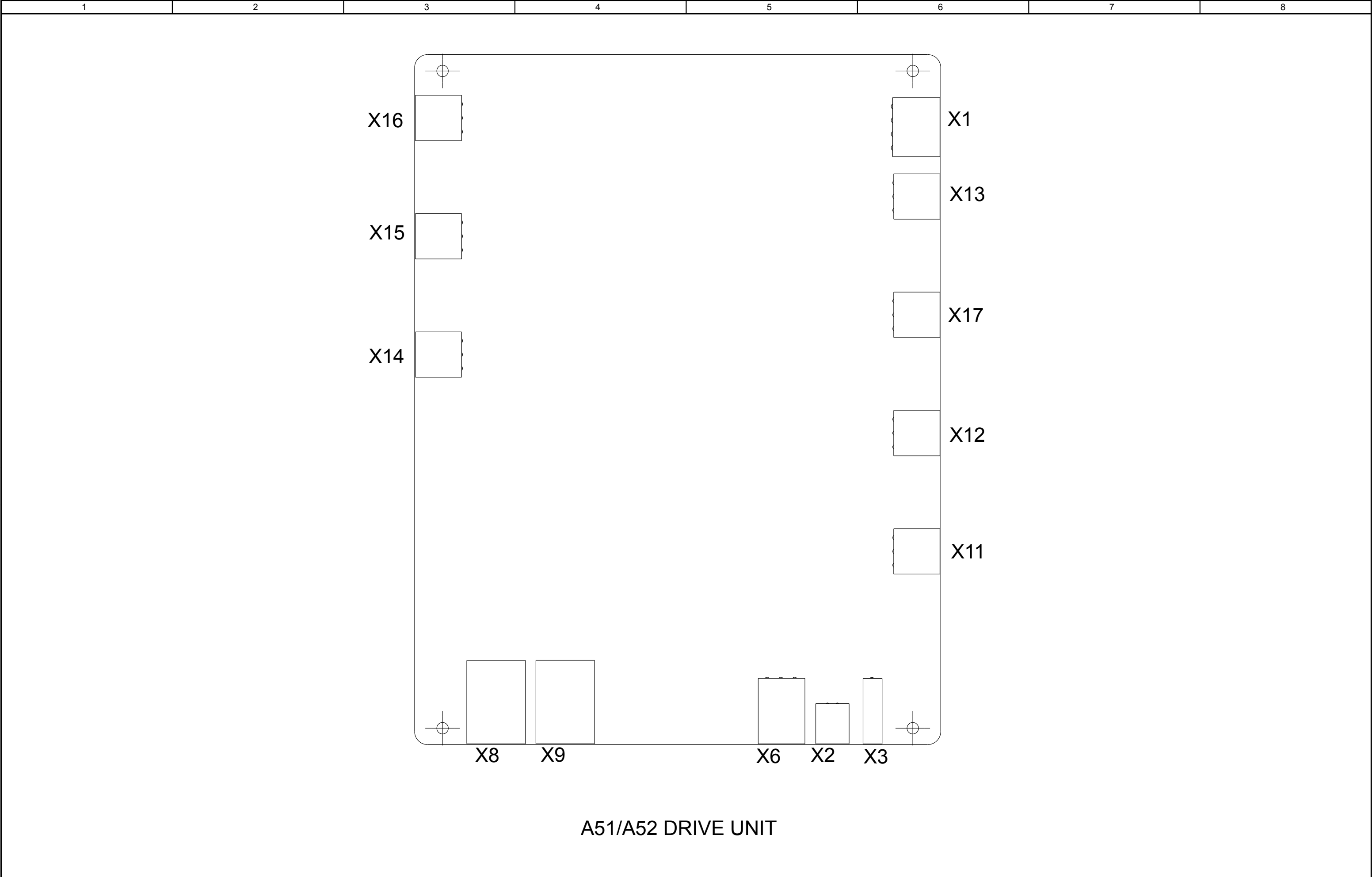
G2 POWER DISTRIBUTION BOARD

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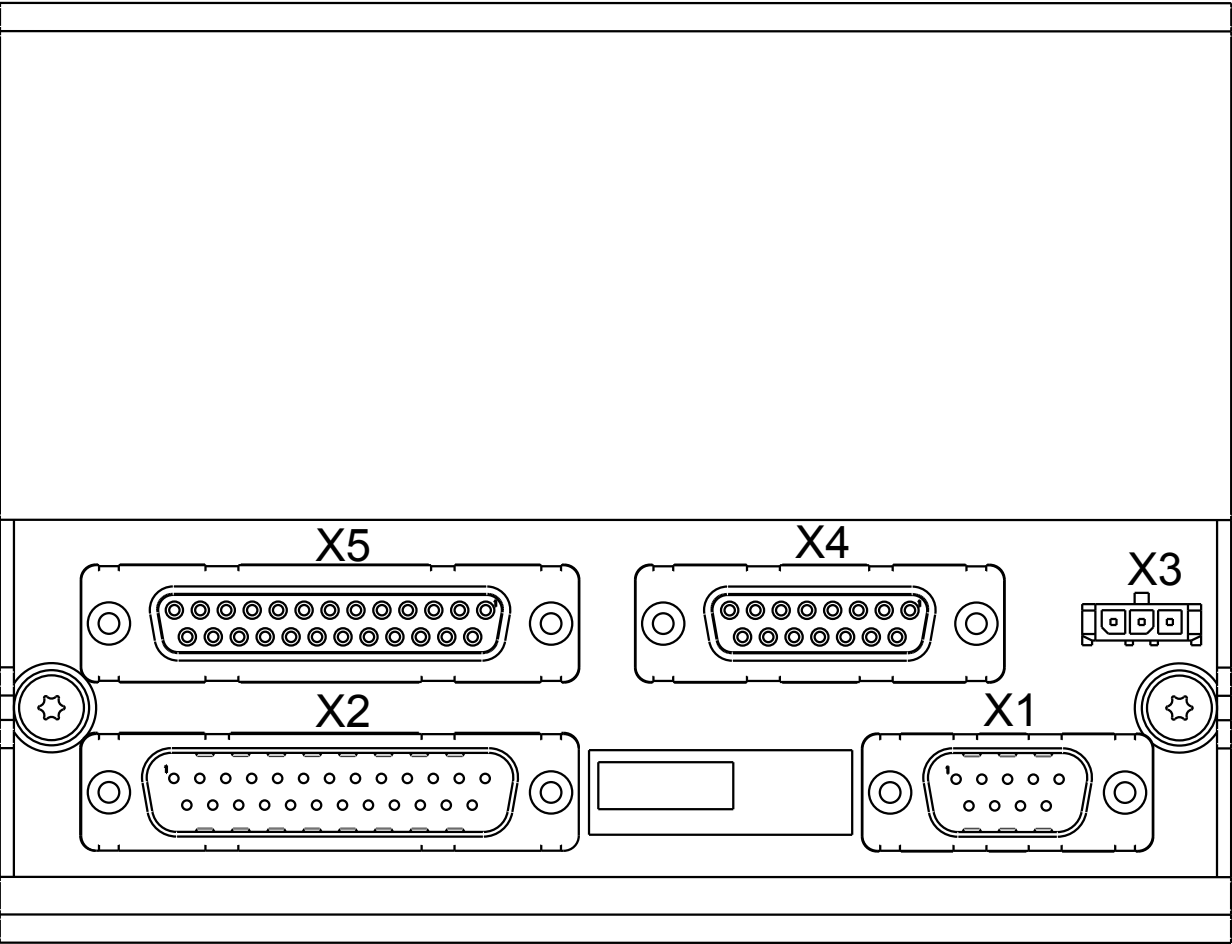
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A51/A52 DRIVE UNIT

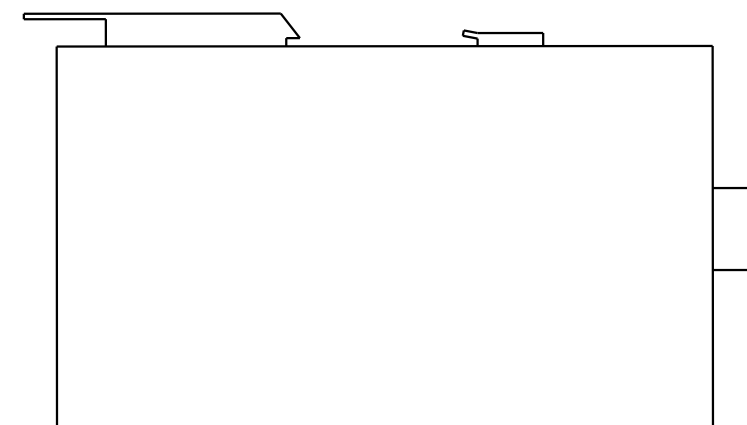
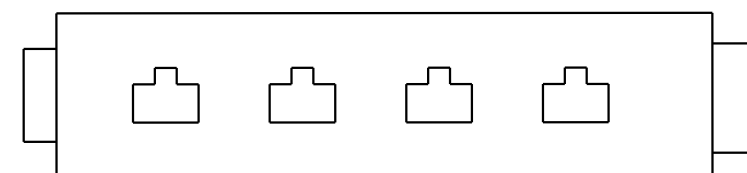
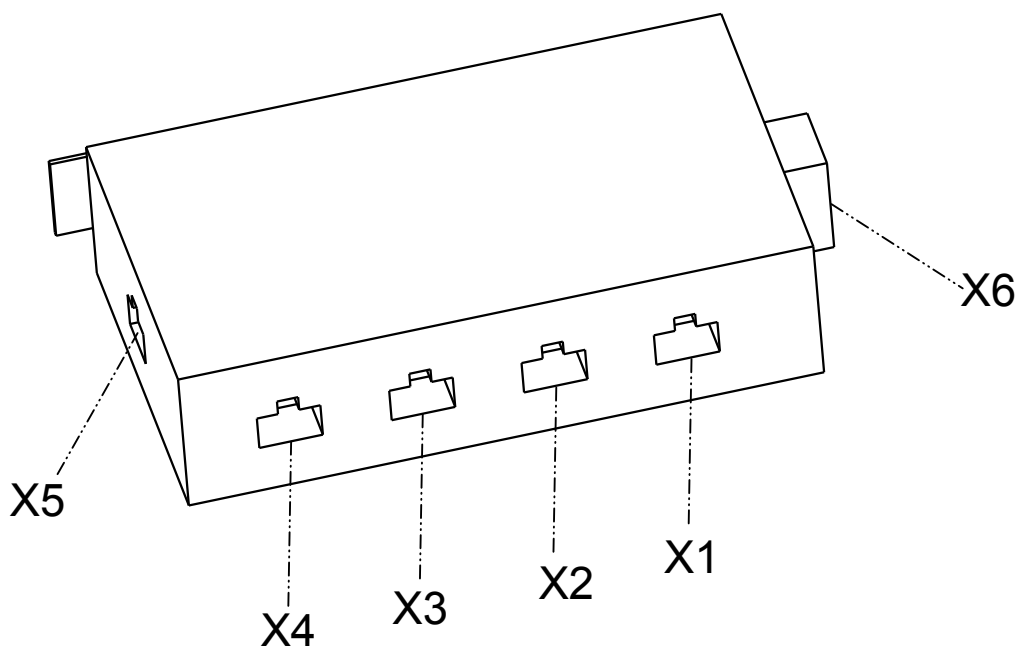
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A51.3/A52.3 SMB UNIT

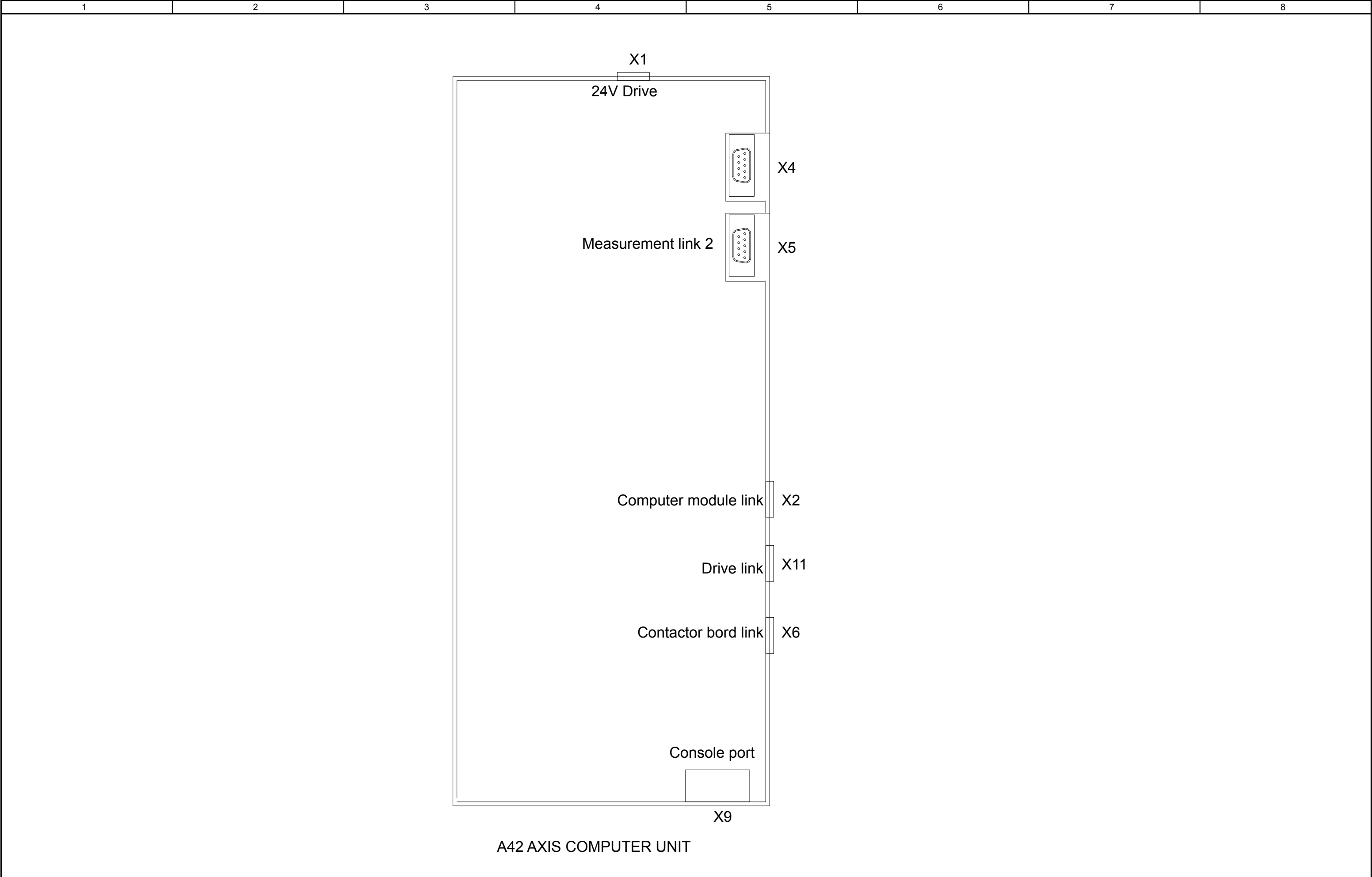
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A33 ETHERNET SWITCH UNIT

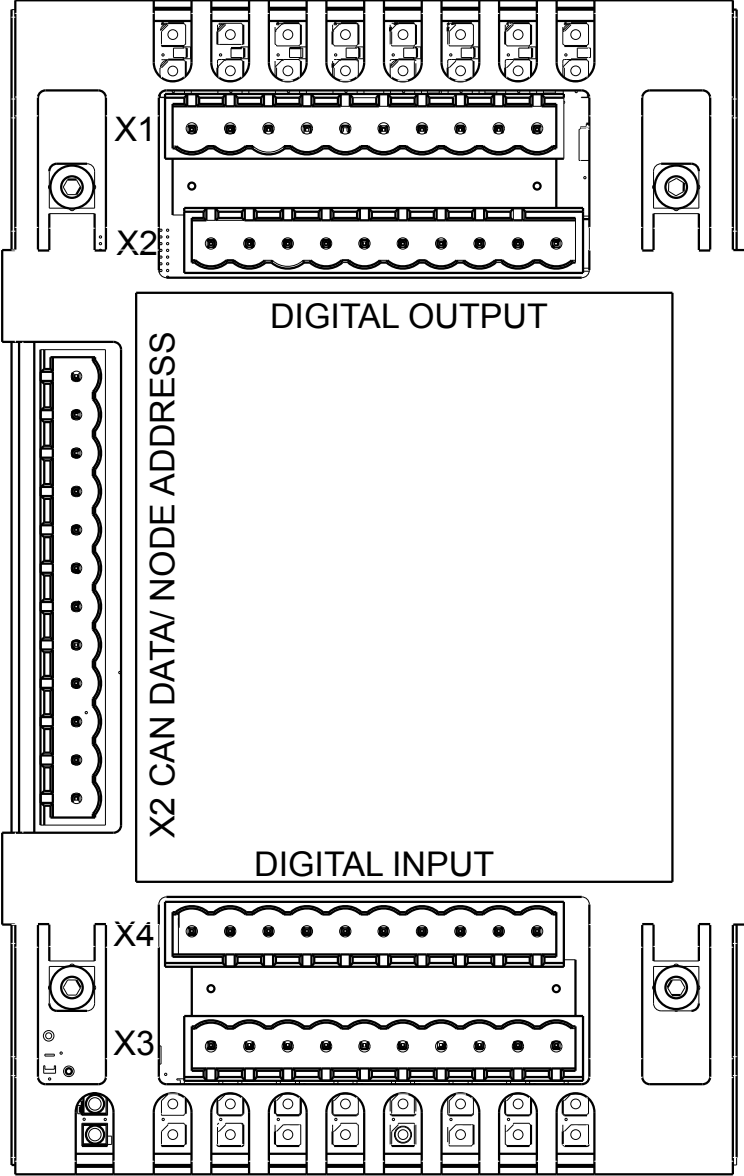
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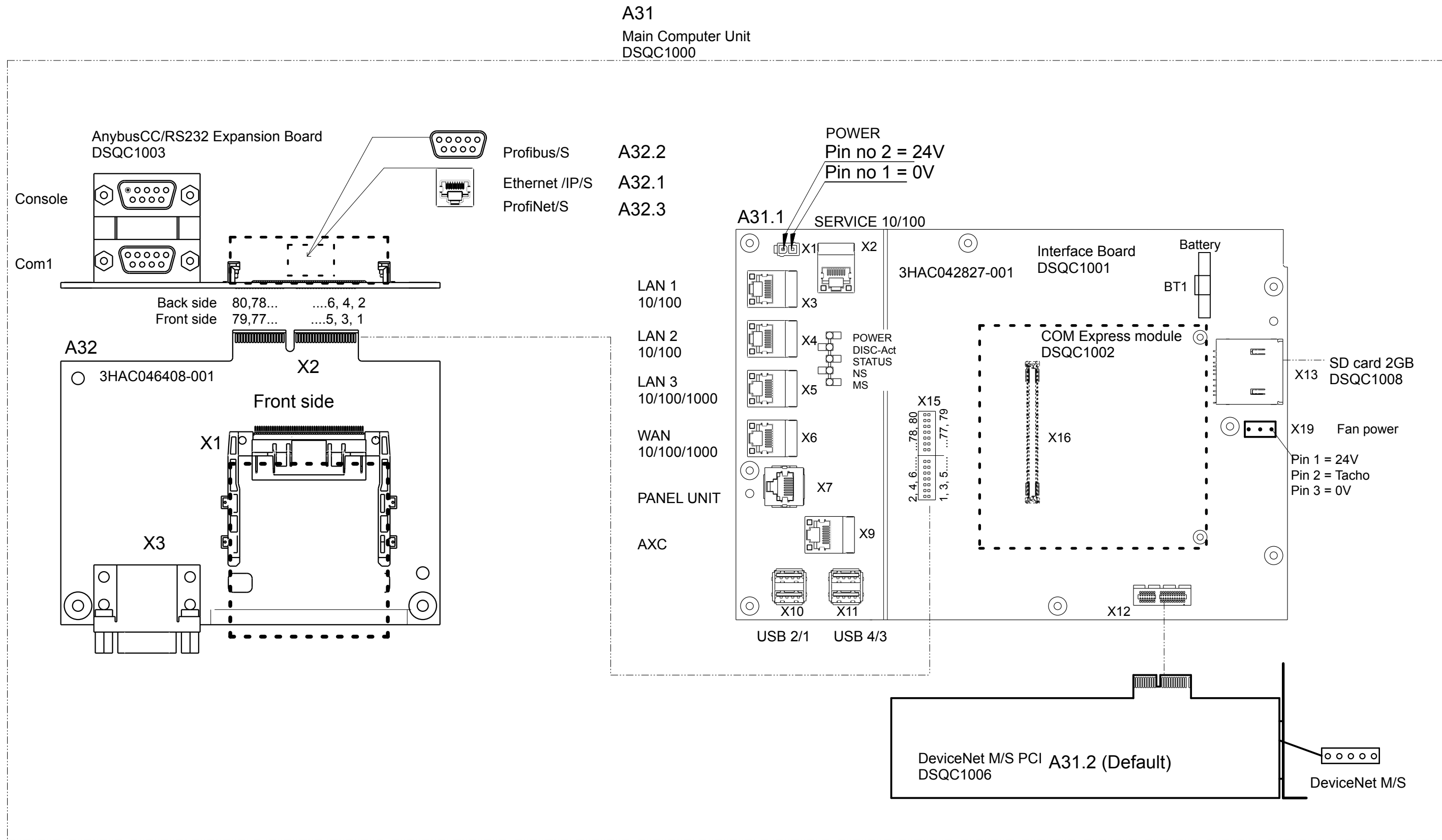
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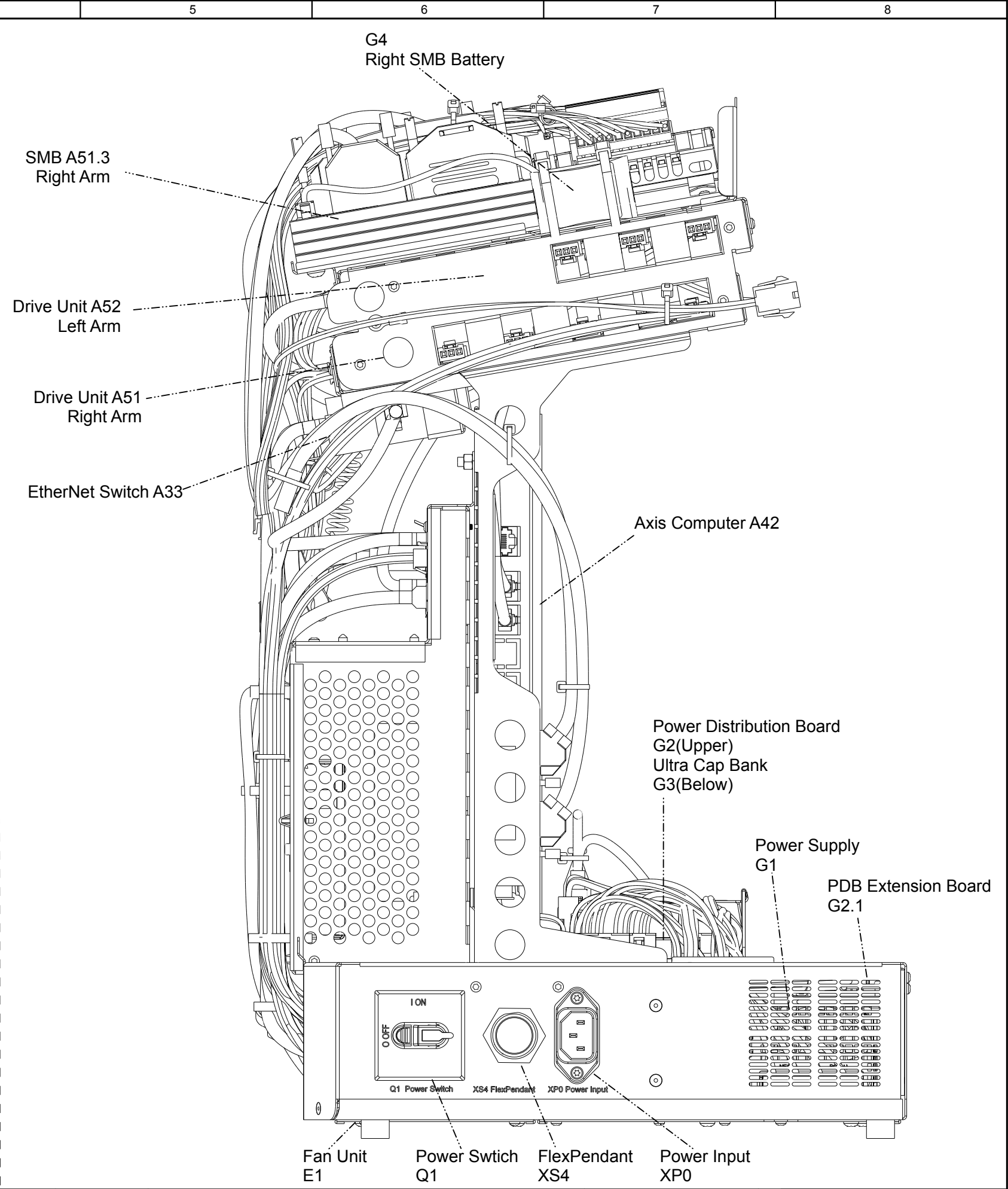
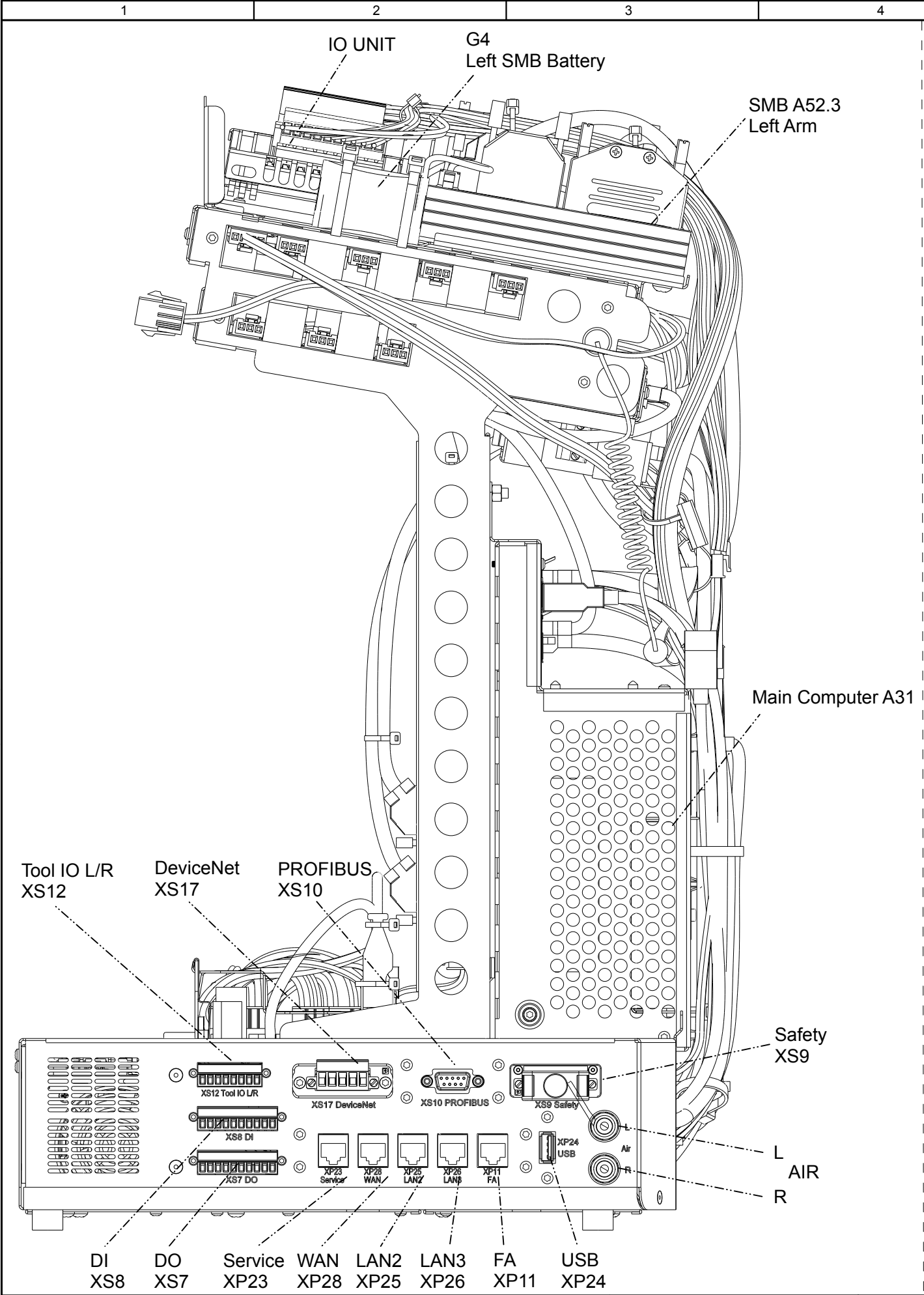
DSQC652 IO UNIT

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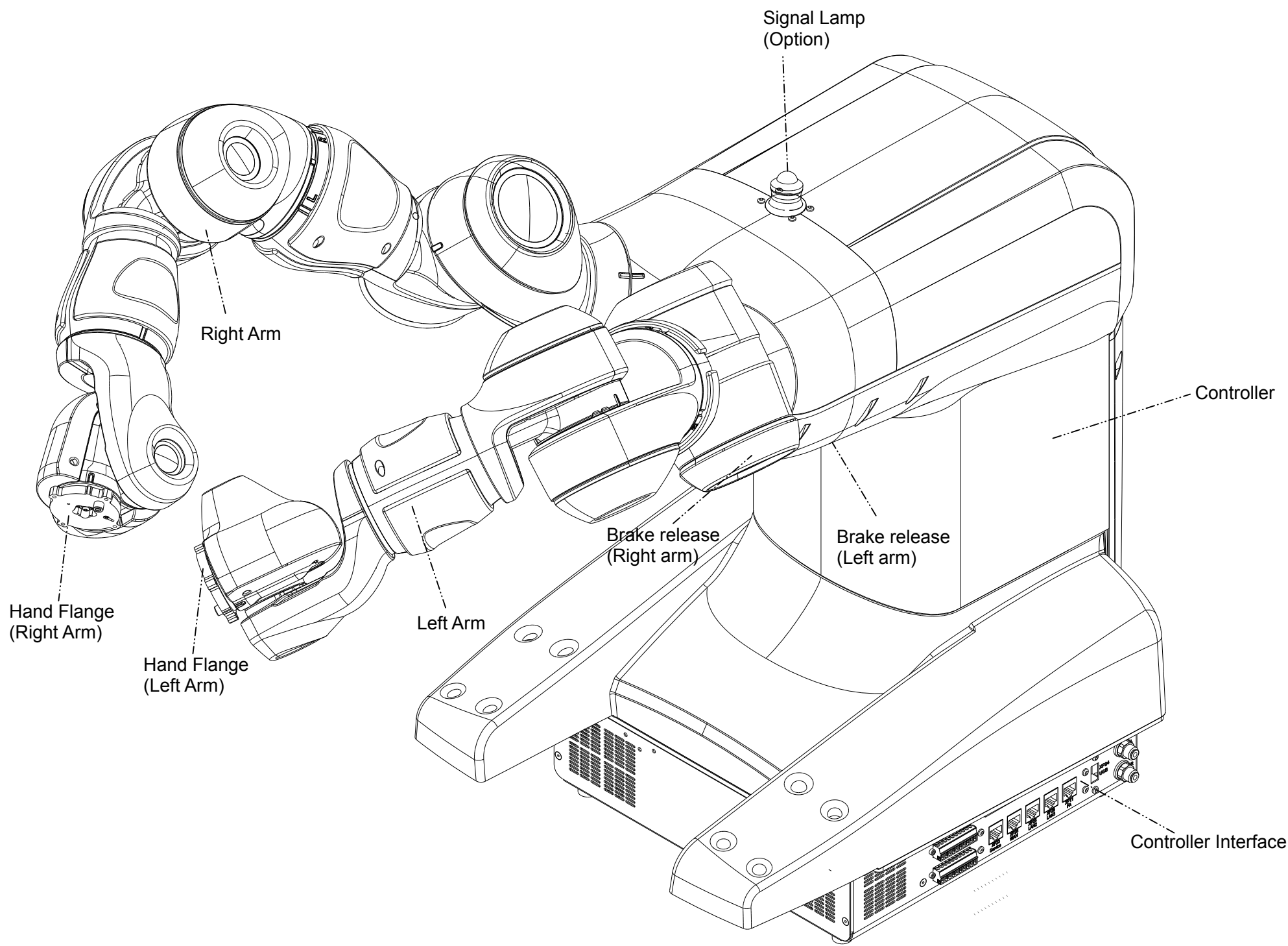
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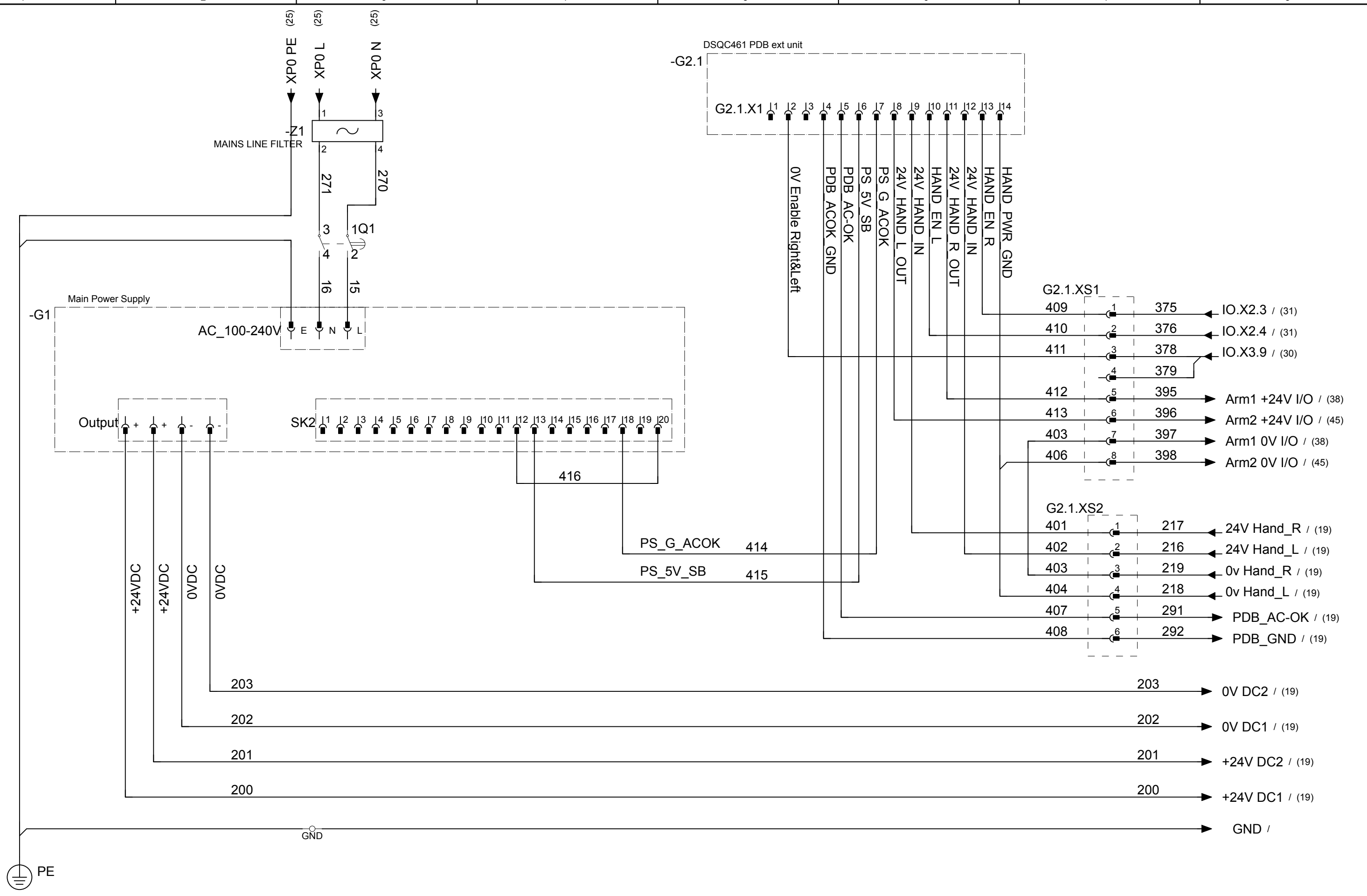
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SYSTEM OVERVIEW

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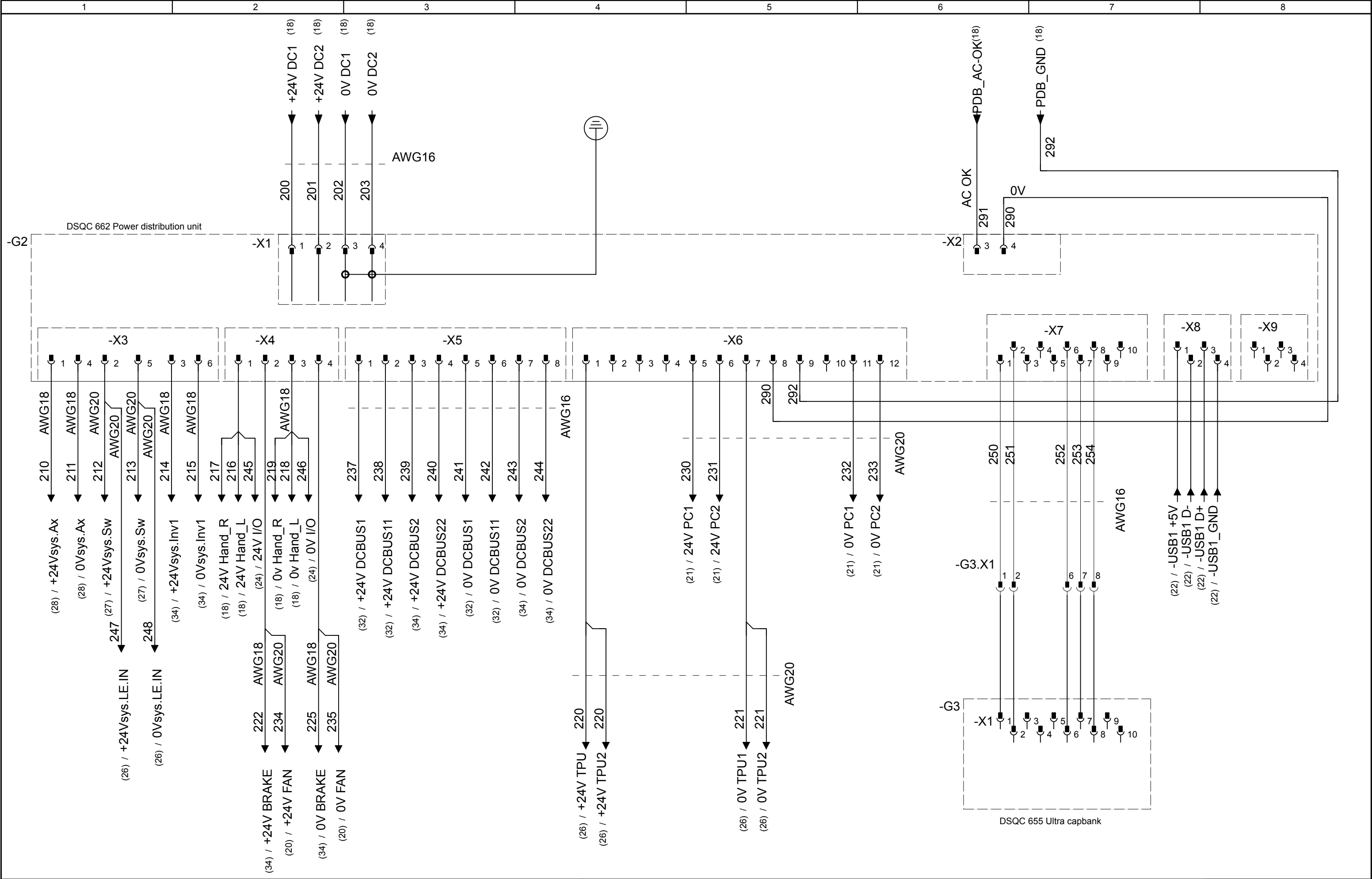
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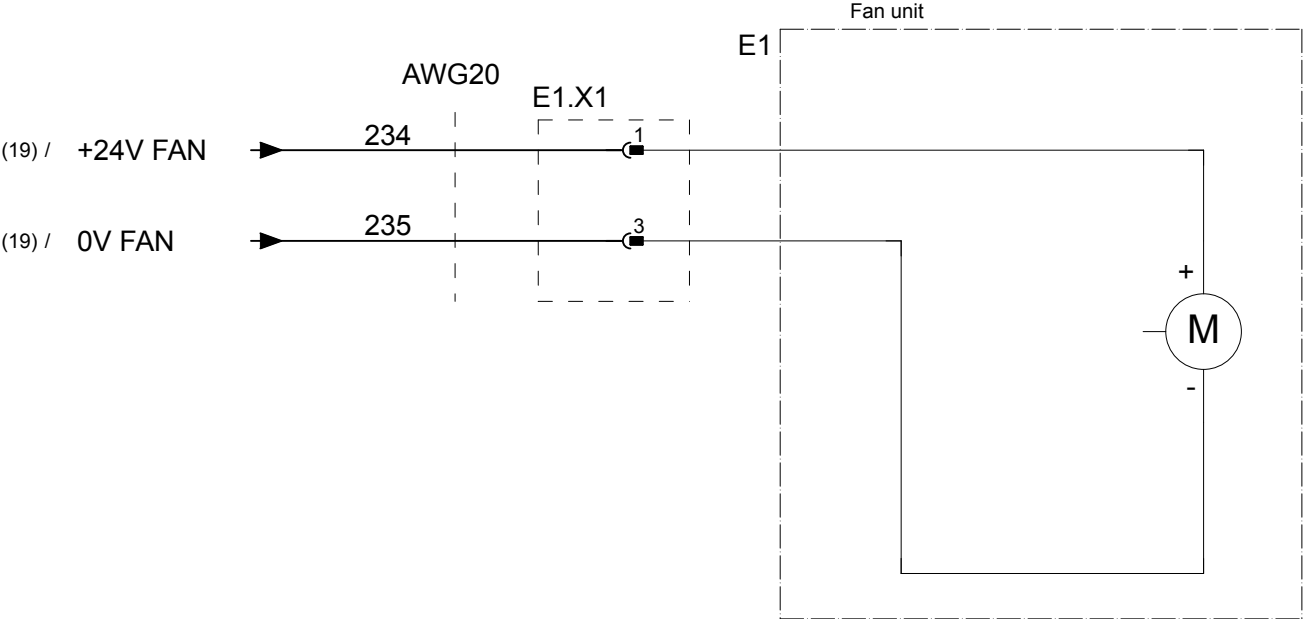


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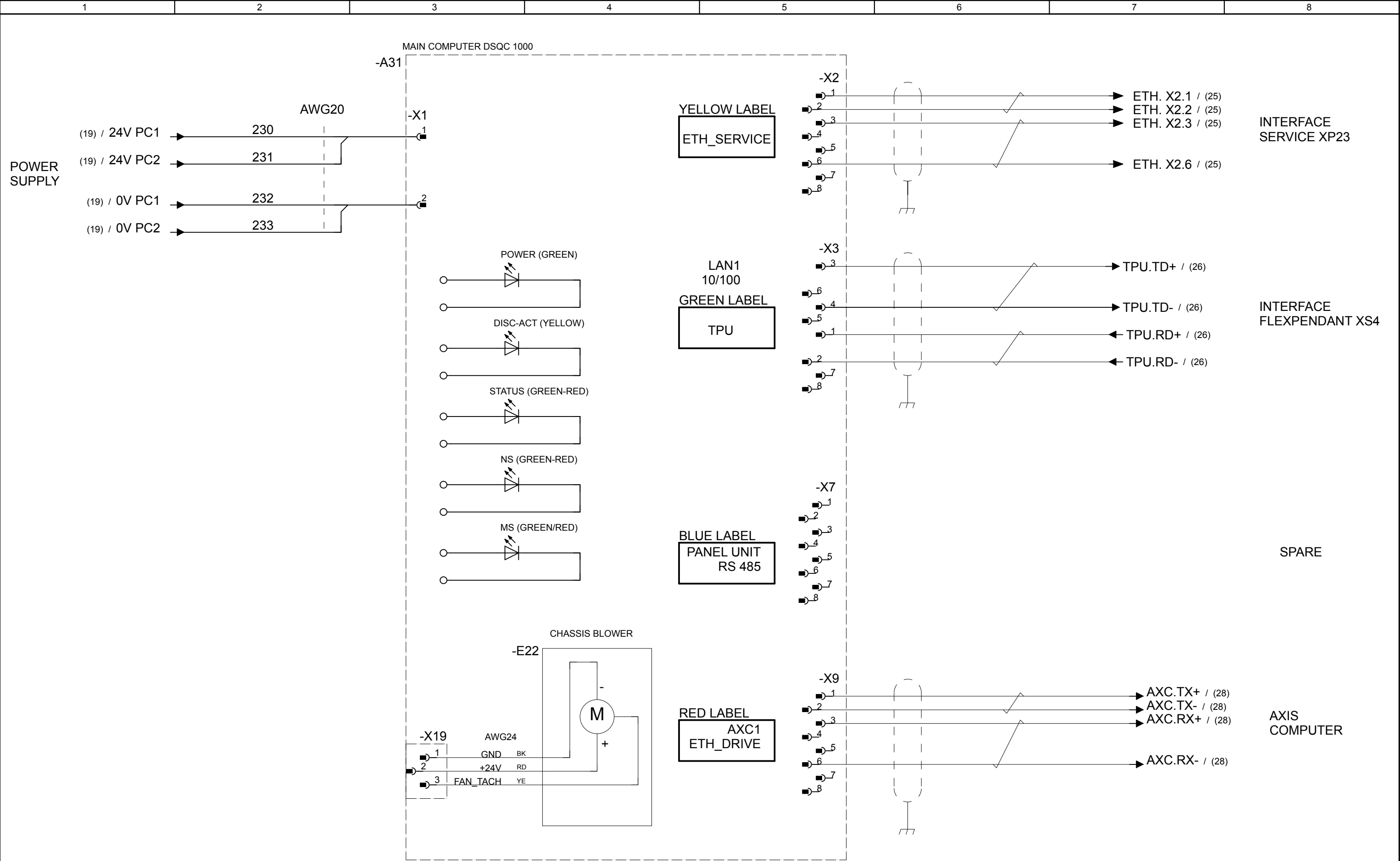


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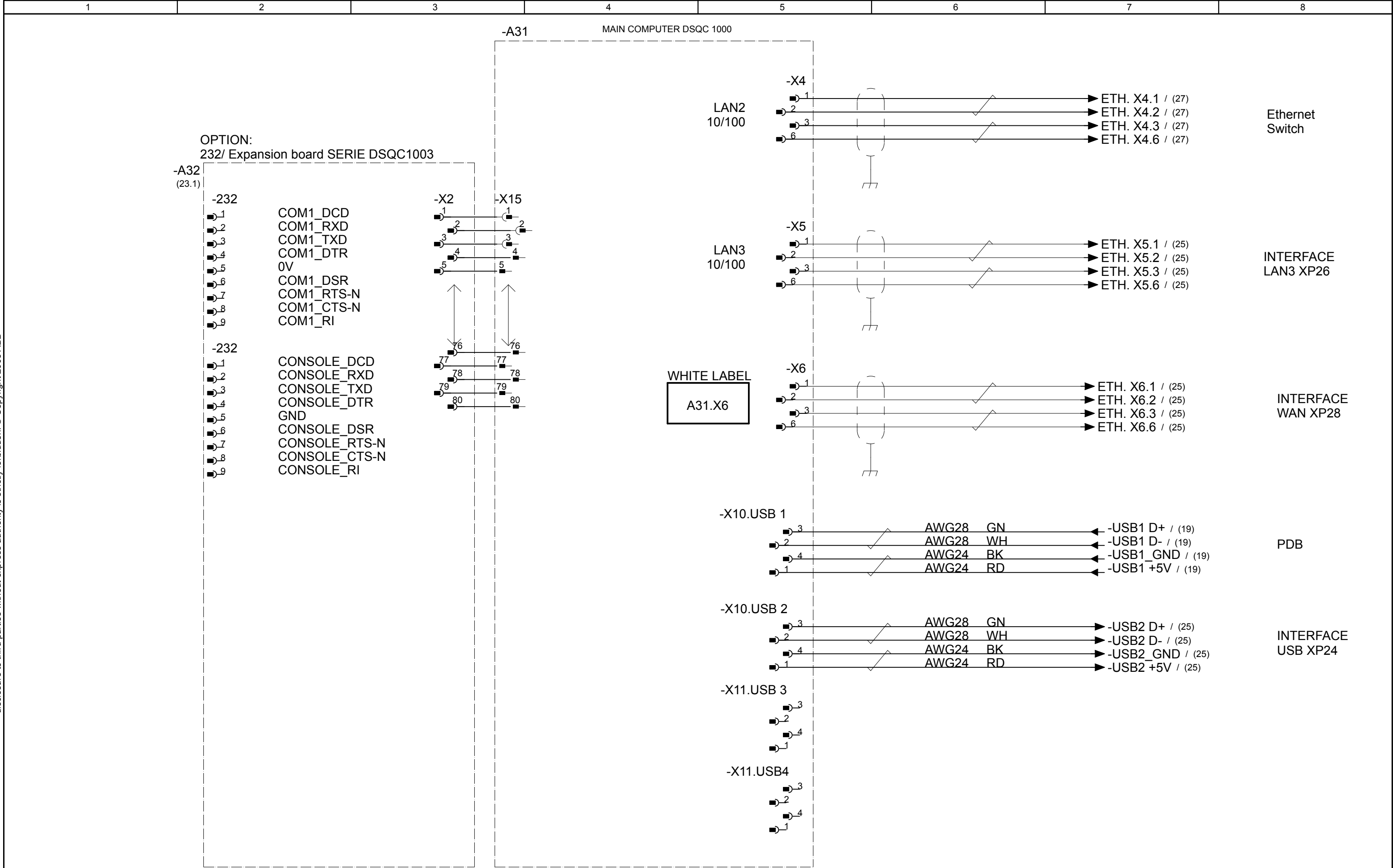


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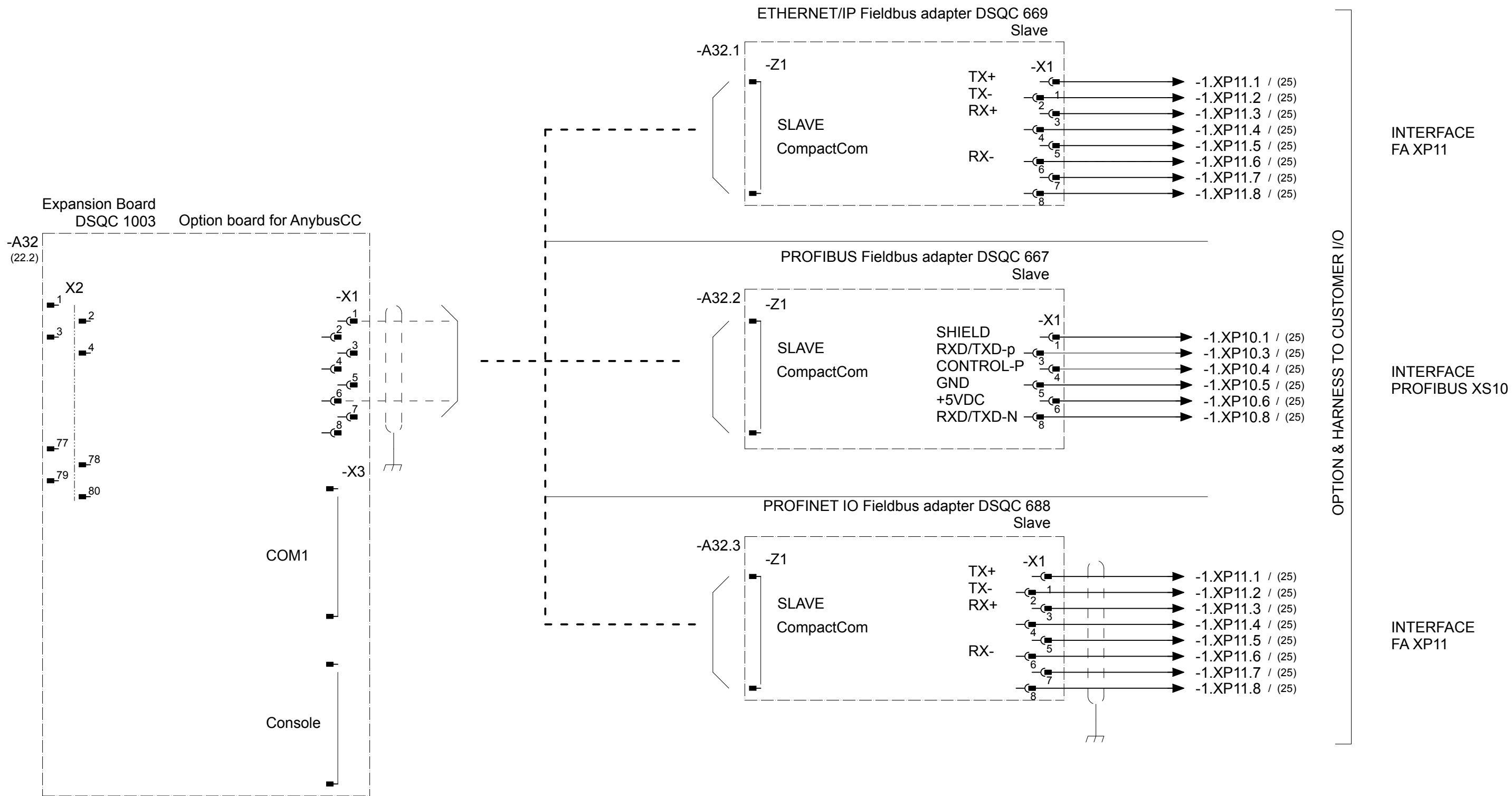
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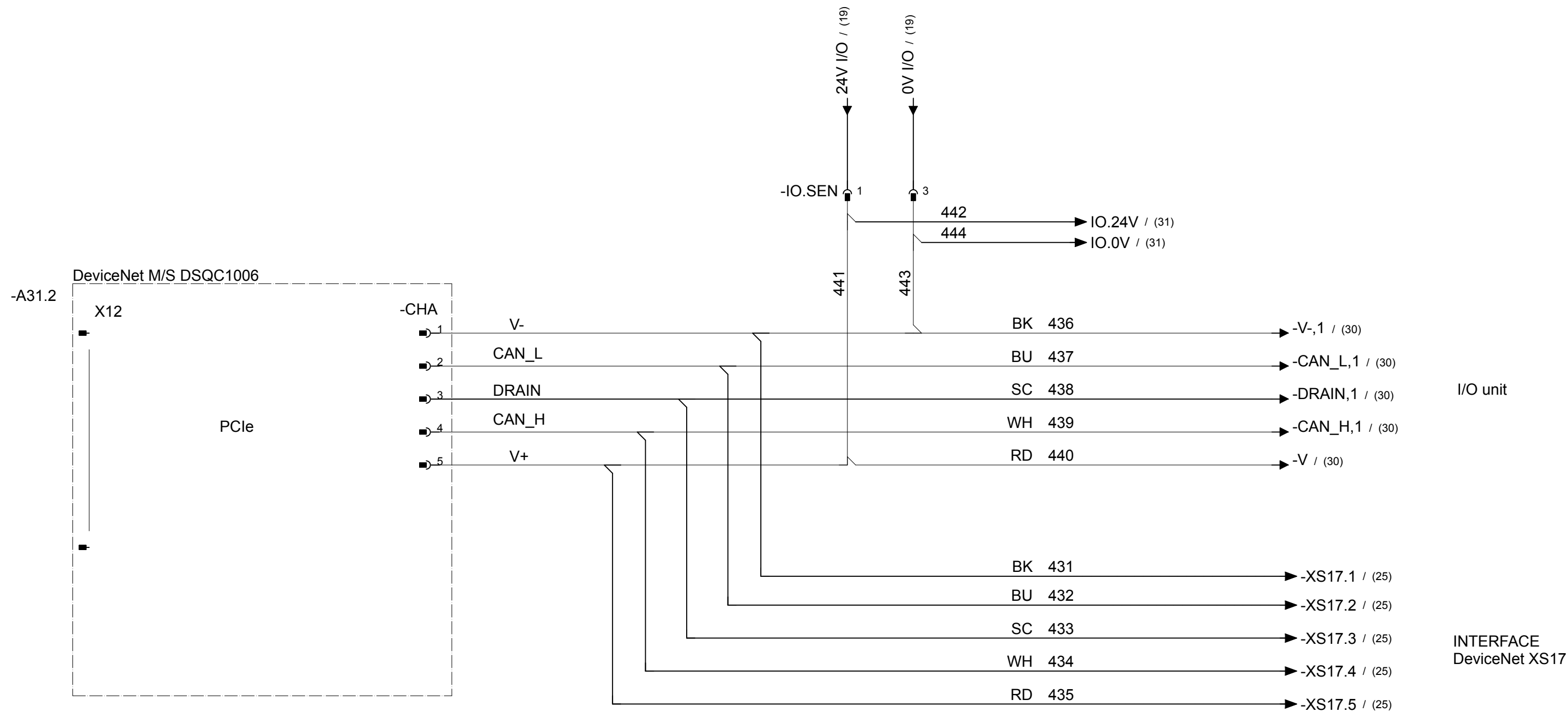
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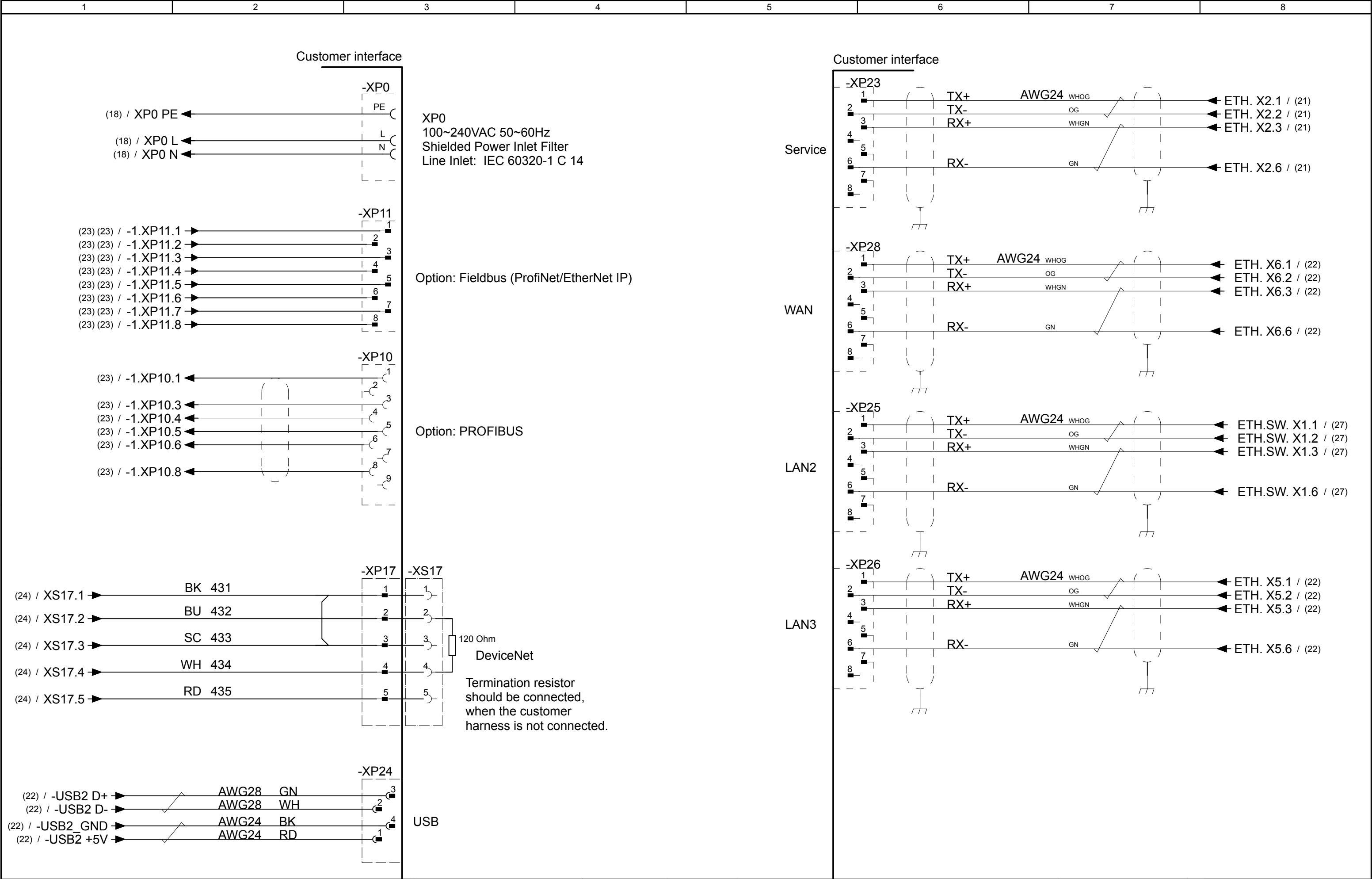


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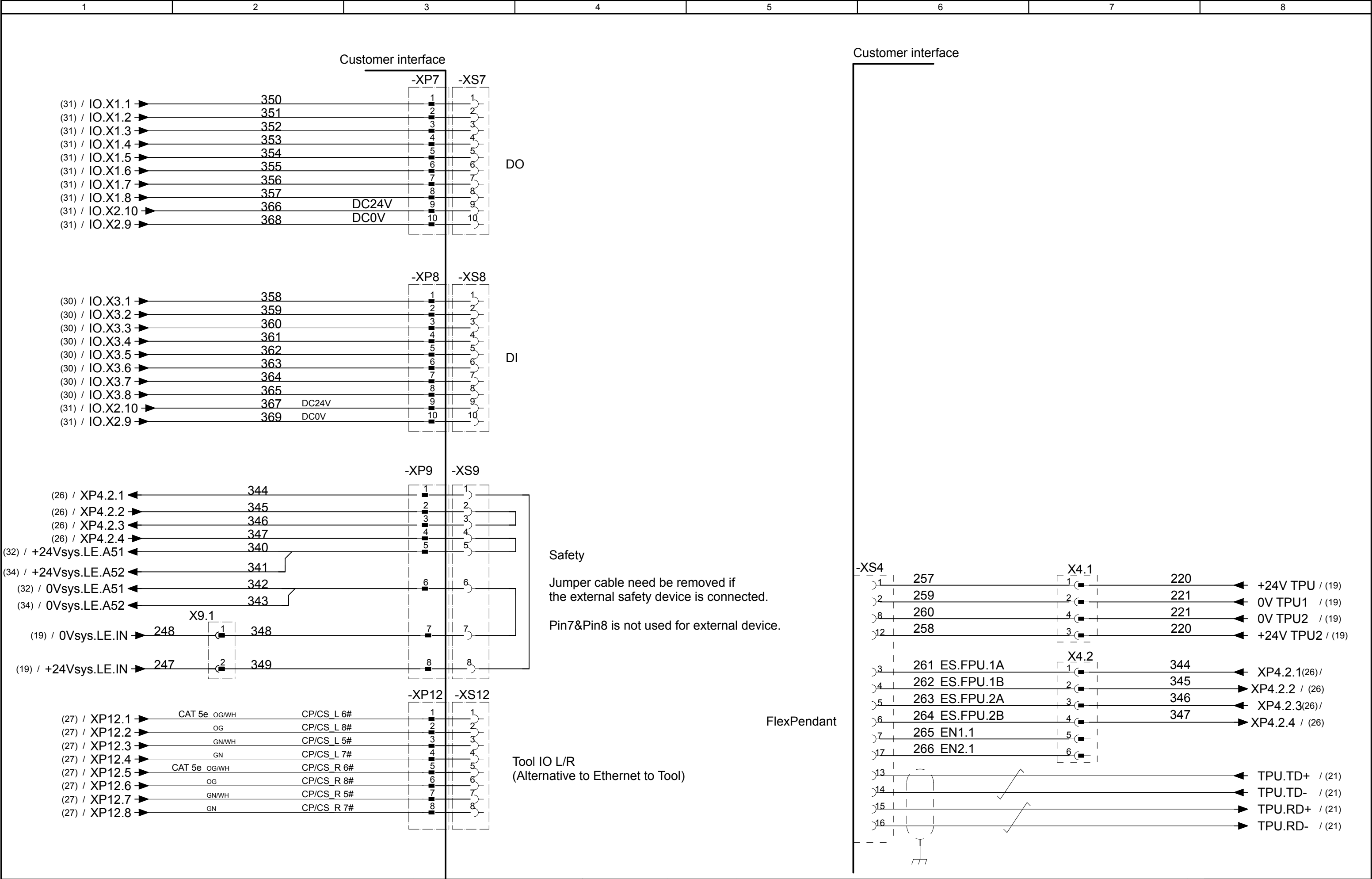




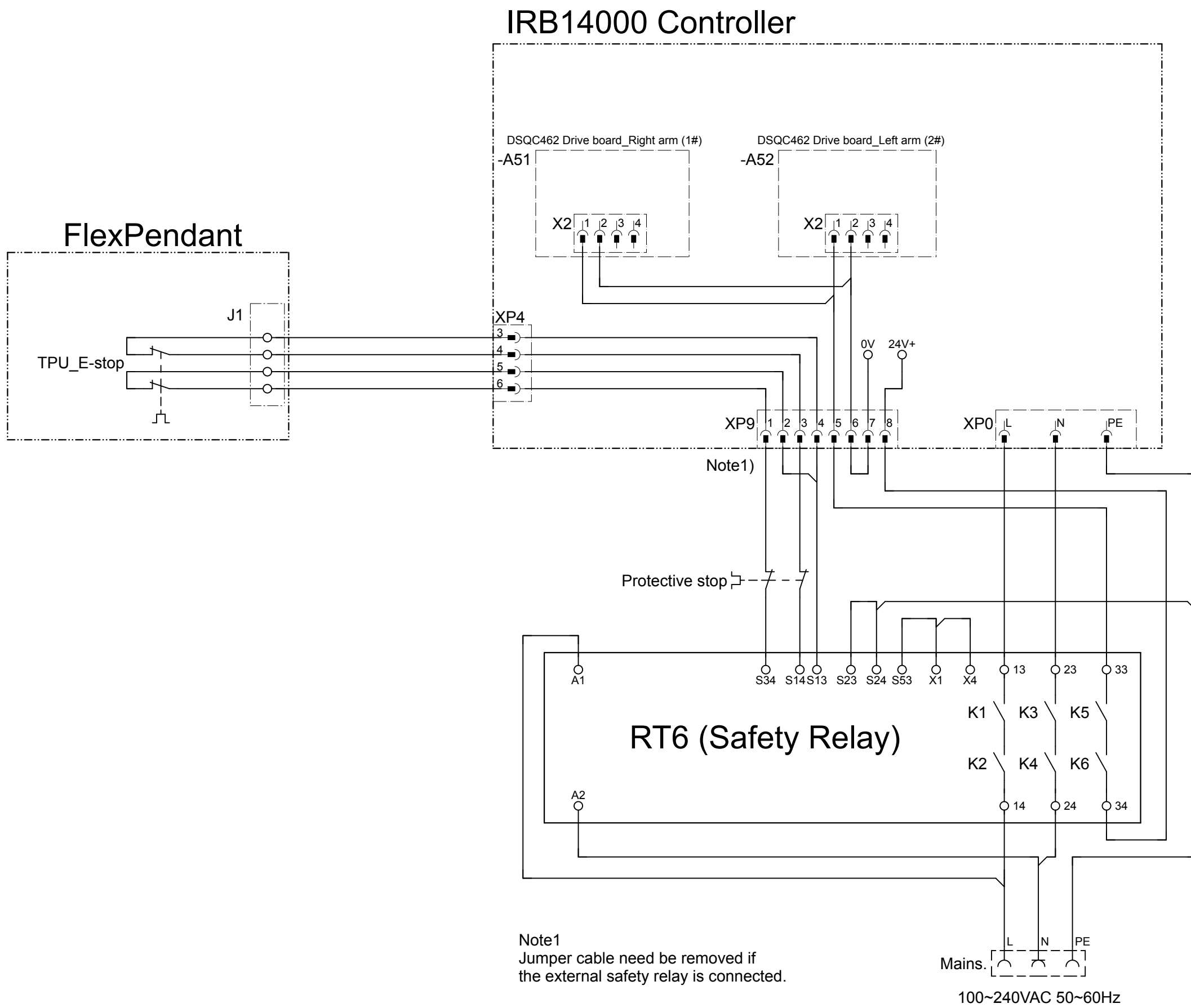
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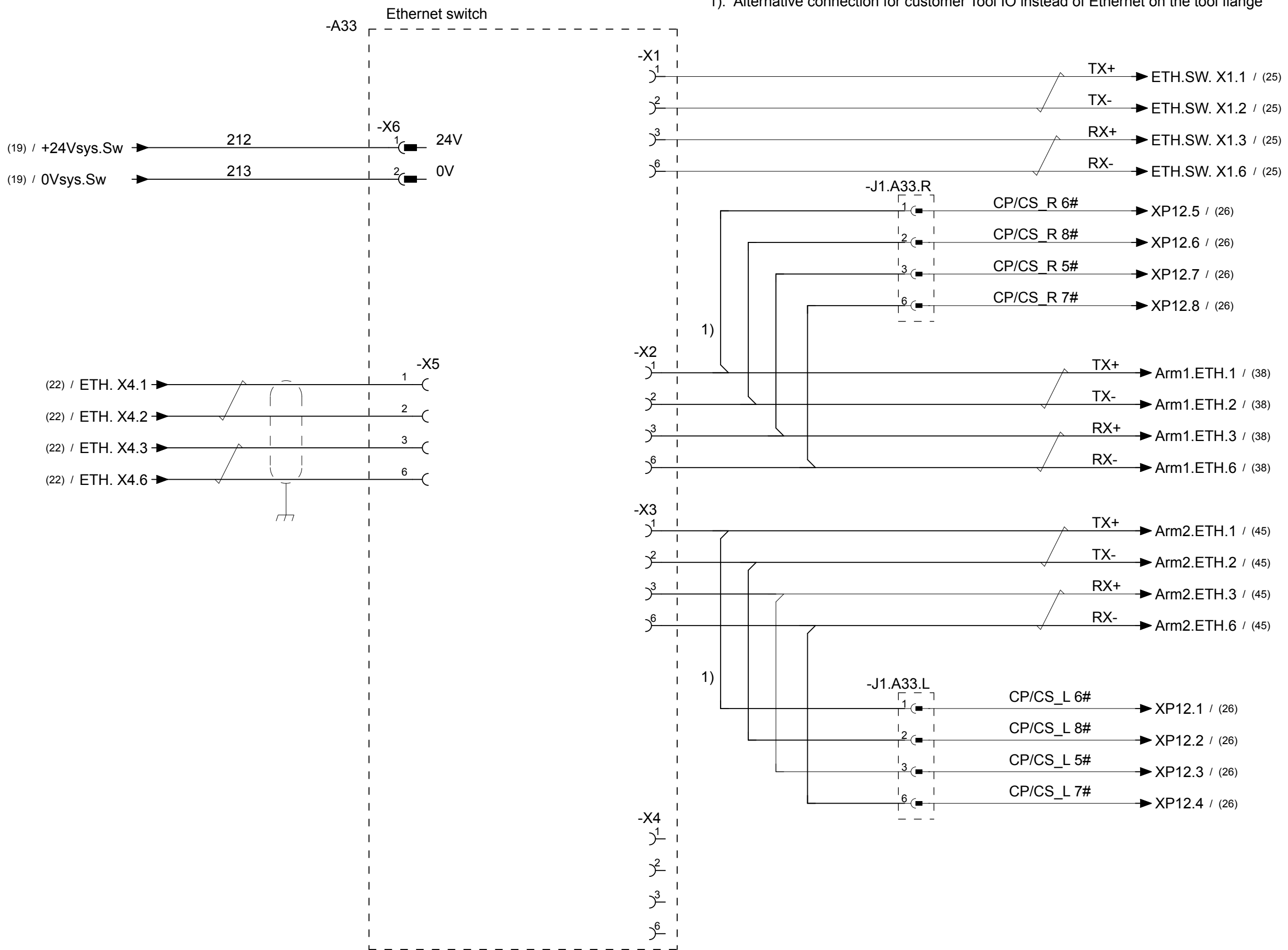
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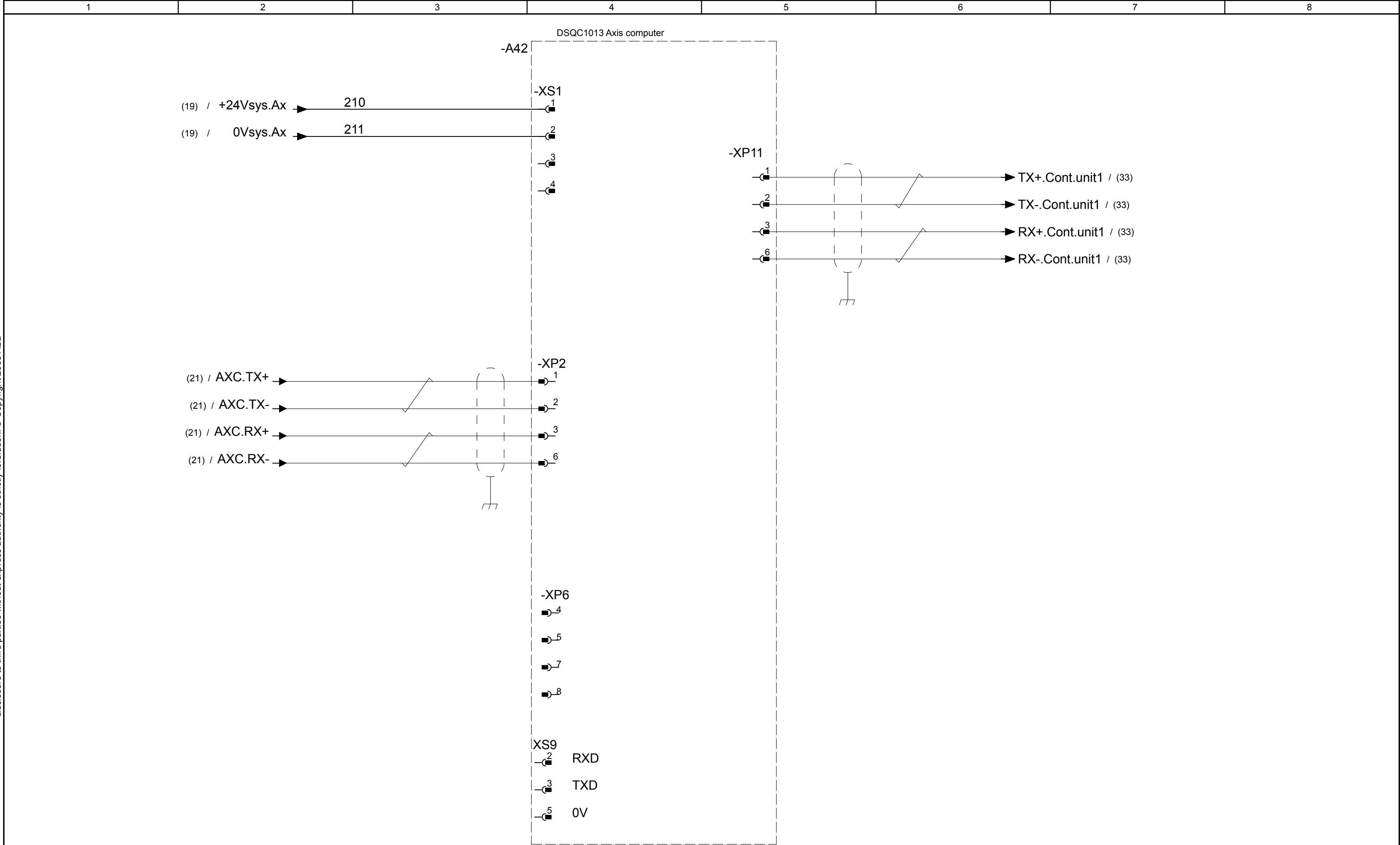
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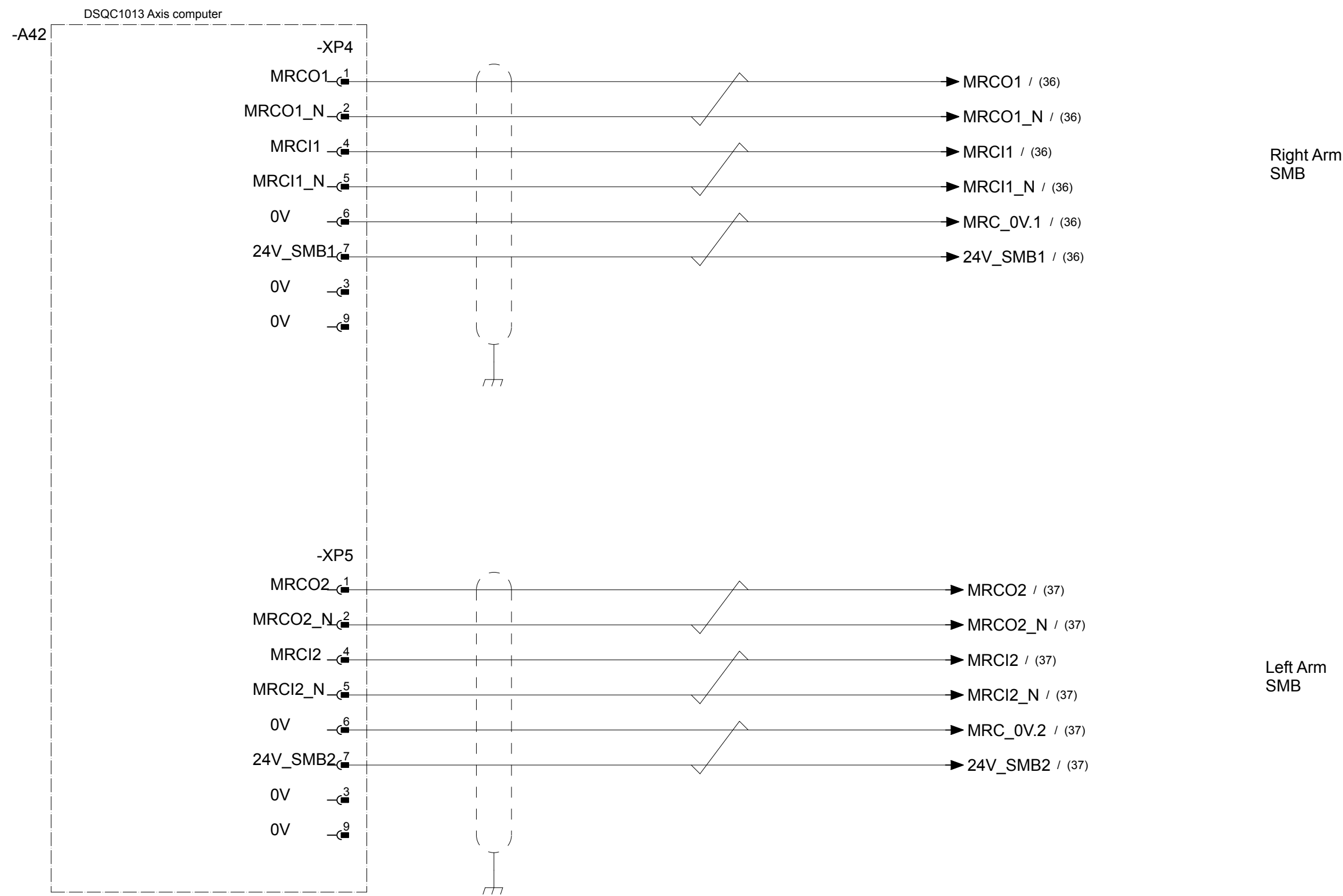
Main Computer  
LAN2



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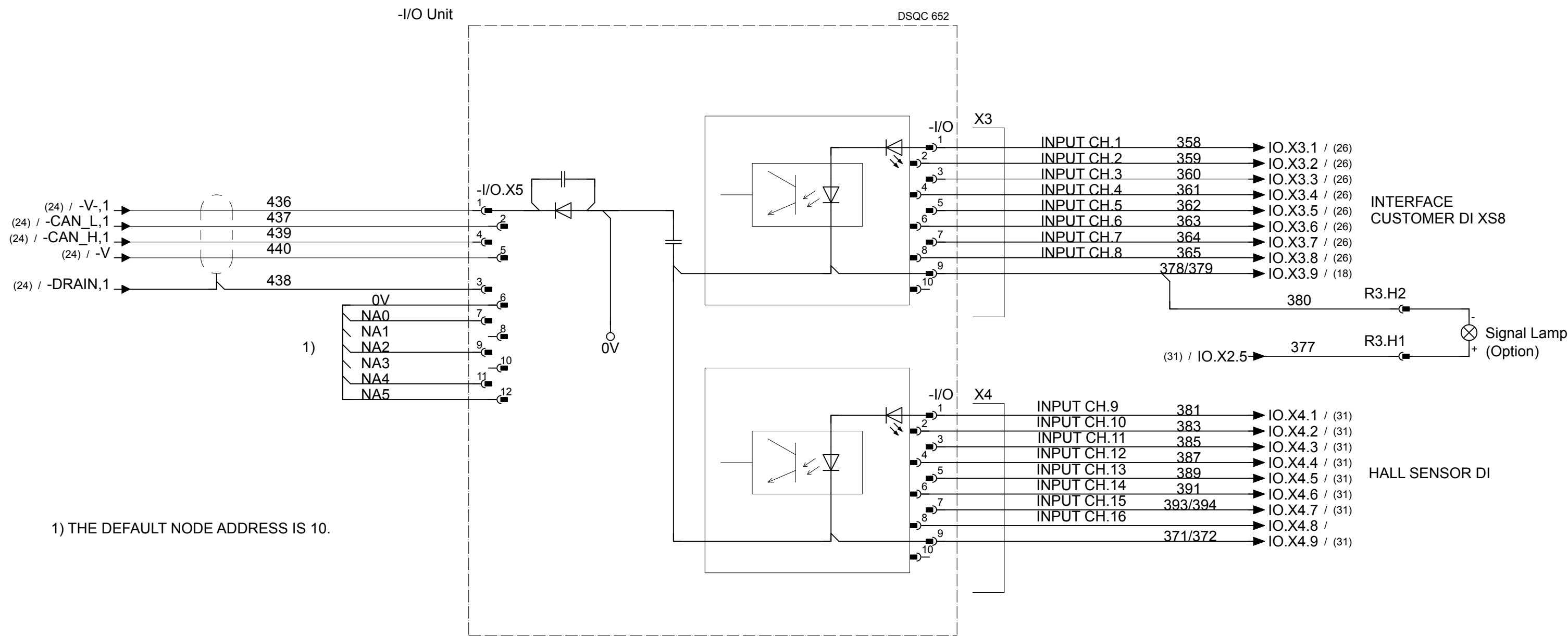


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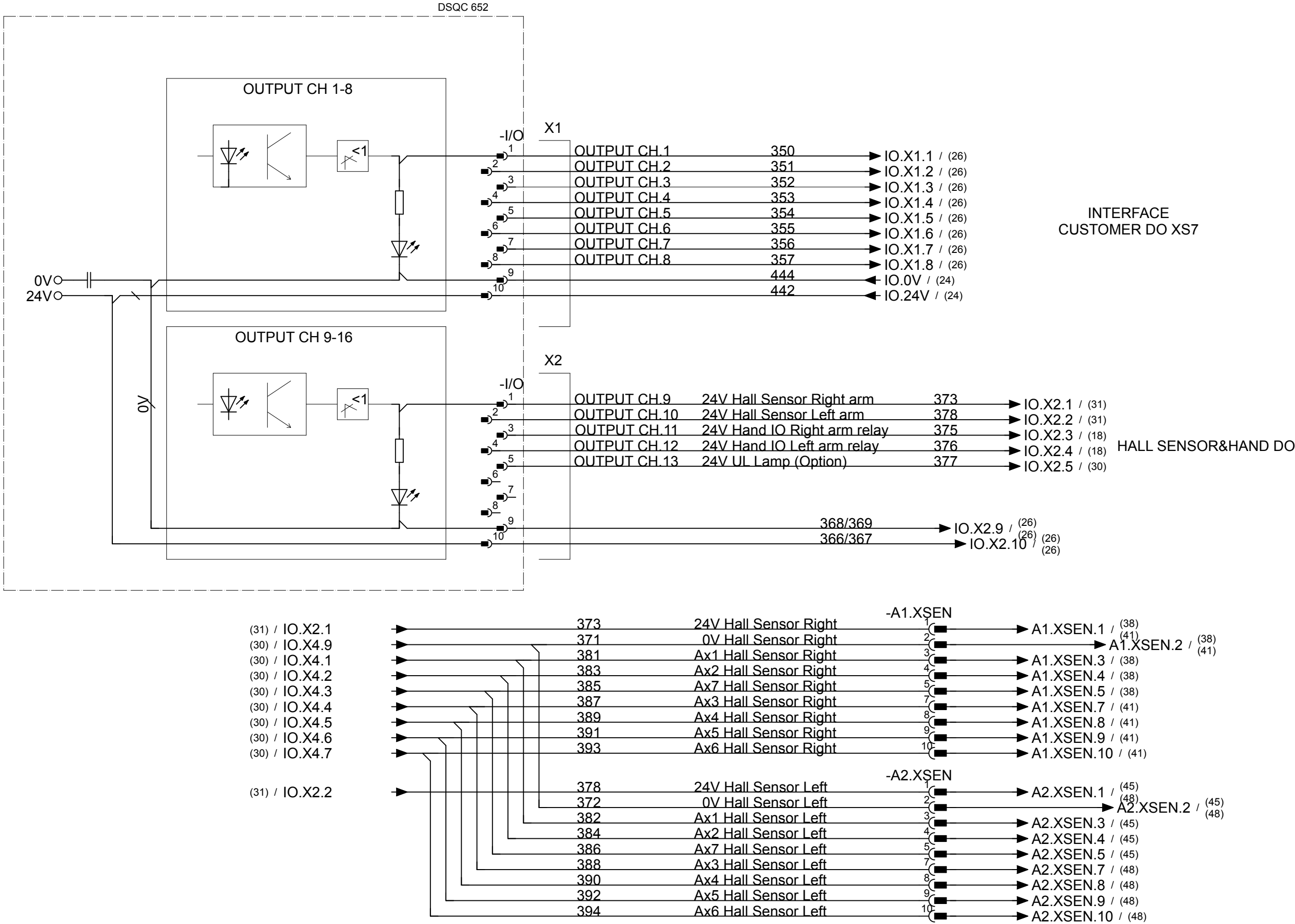
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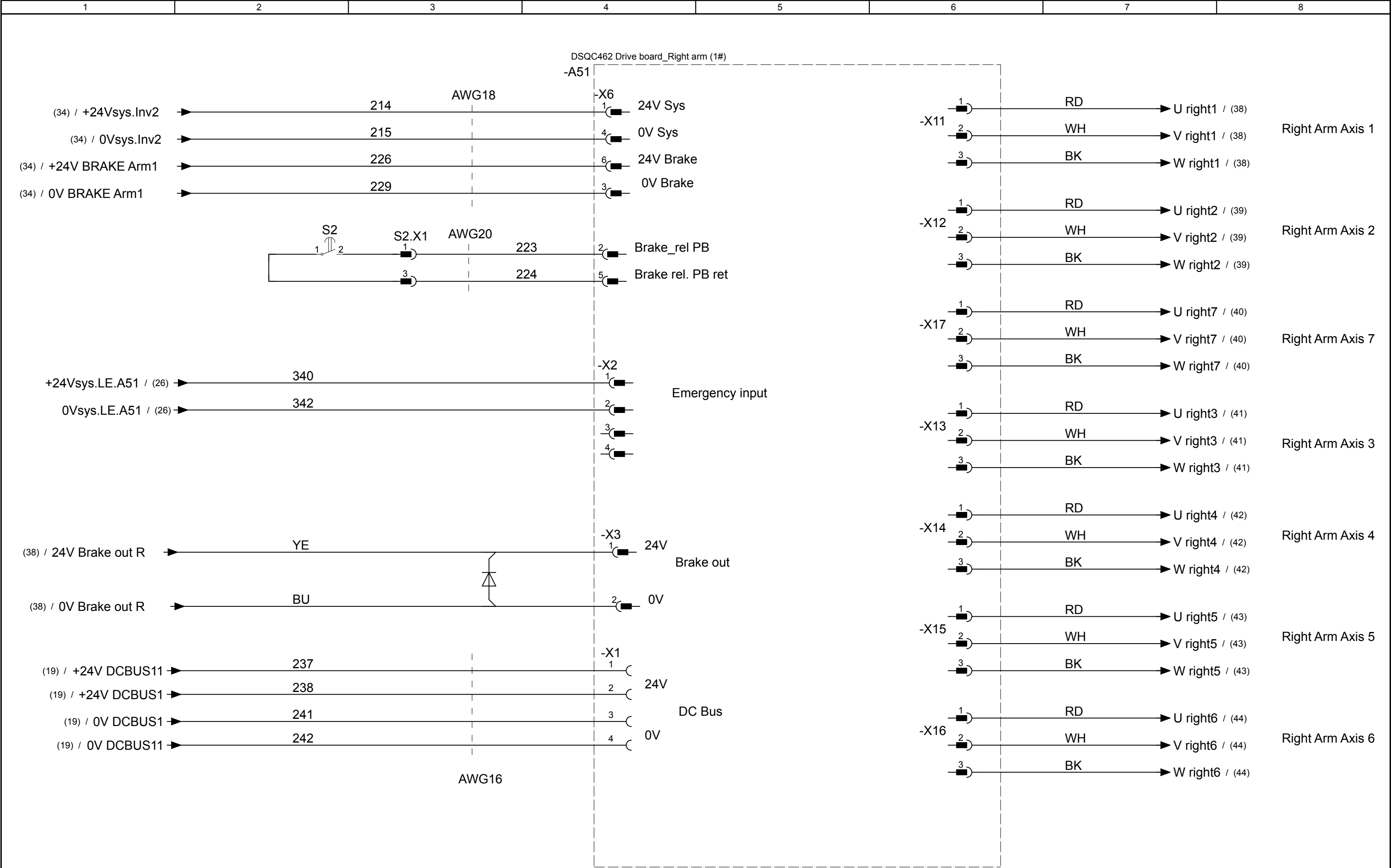
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-I/O Unit

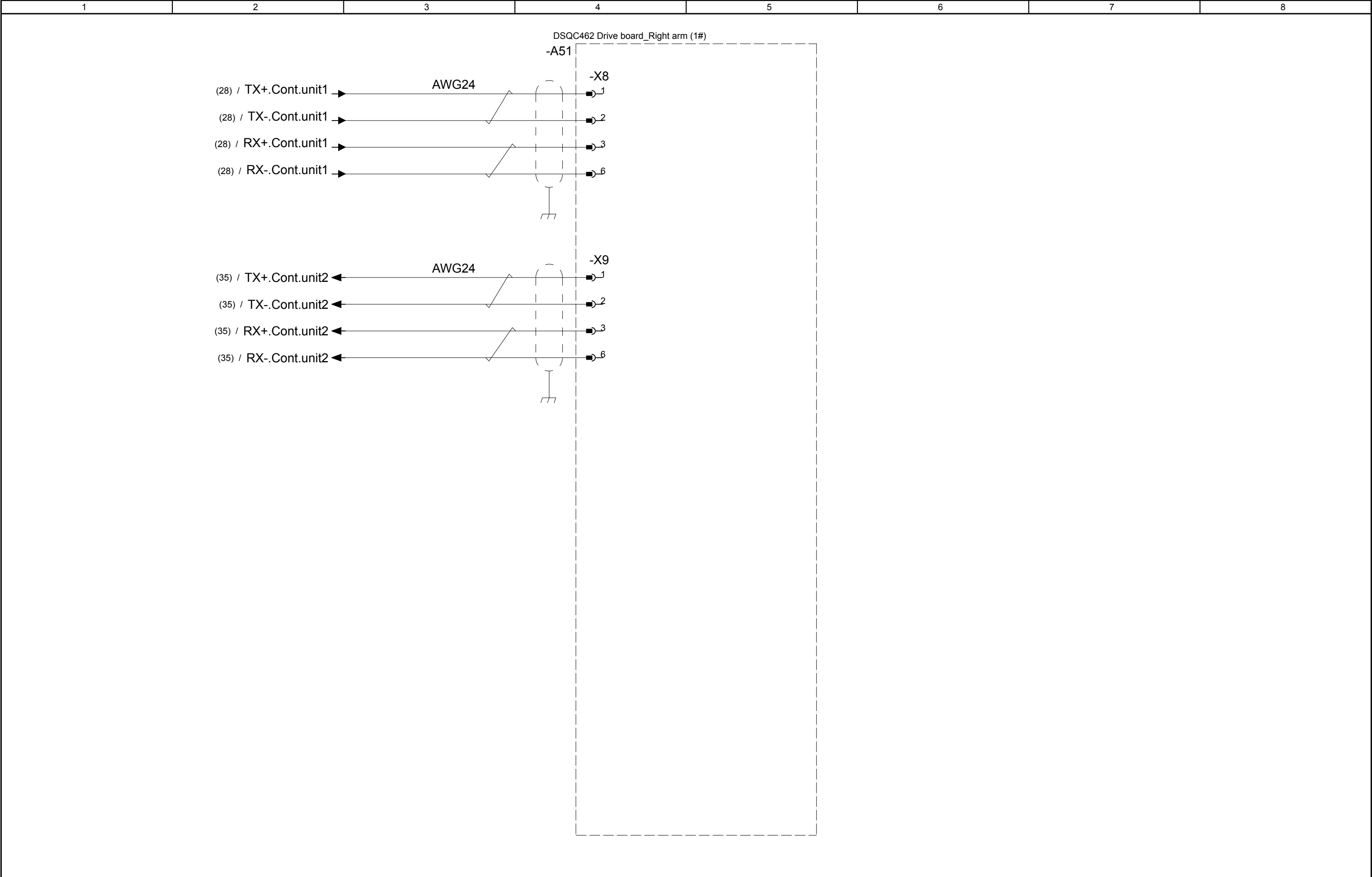





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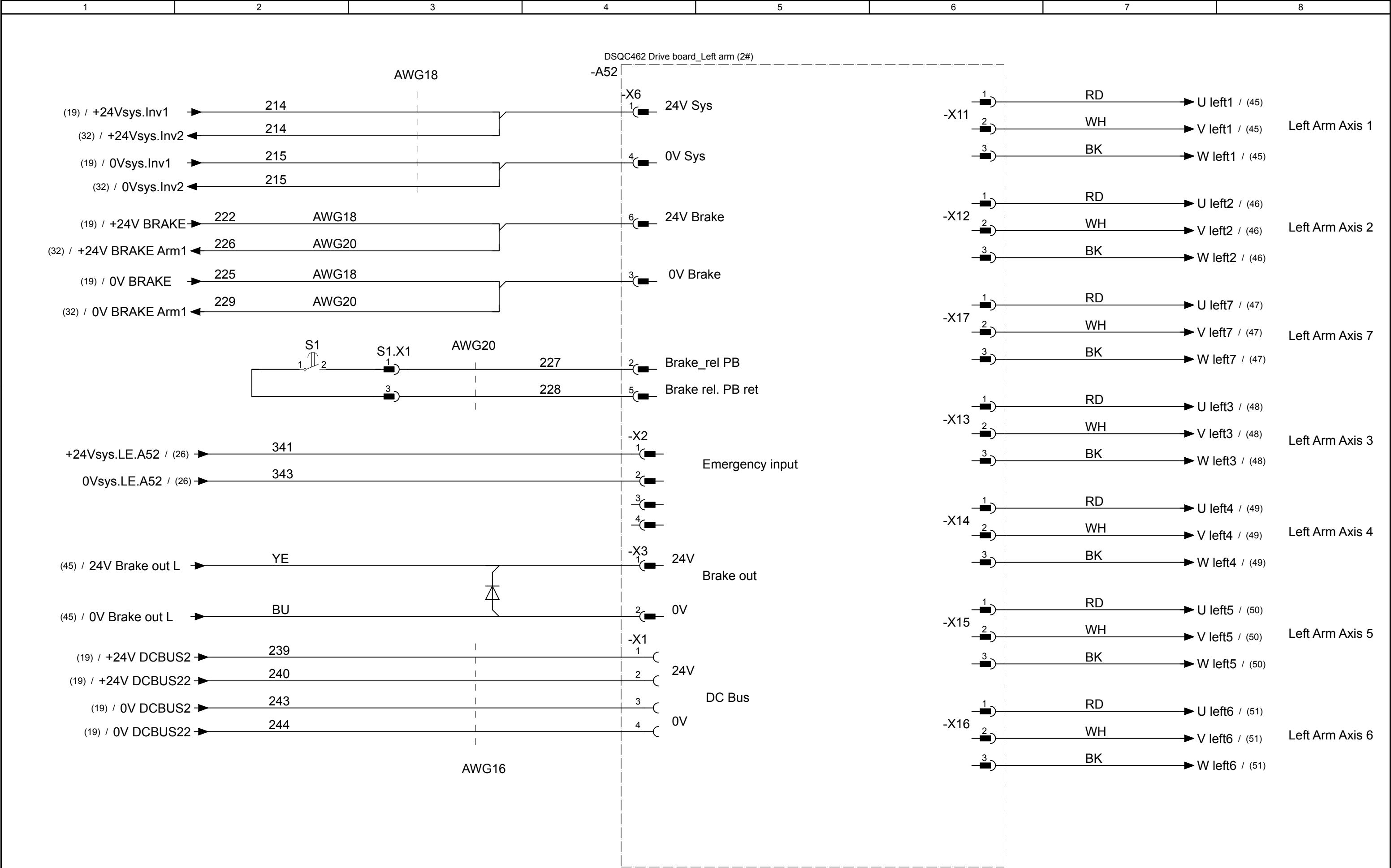



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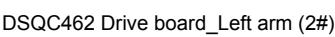


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(29) / MRCO1  
(29) / MRCO1\_N  
(29) / MRCI1  
(29) / MRCI1\_N  
(29) / MRC\_0V.1  
  
(29) / 24V\_SMB1

A51.3 DSQC633D SMB\_Right arm(1#)

-XP1

9 SDI  
5 SDI-N  
8 SDO  
4 SDO-N  
3 0V  
7 24V

-XP2

2 BK → X1R / (38)  
14 GN → 0V\_X1R / (38)  
3 RD → Y1R / (38)  
15 WH → 0V\_Y1R / (38)  
6 YE → 0V\_EXC1R / (36)  
18 VT → EXC1R / (36)

Axis 1

4 BK → X2R (39)  
16 GN → 0V\_X2R (39)  
5 RD → Y2R (39)  
17 WH → 0V\_Y2R (39)  
7 YE → 0V\_EXC1R (36)  
19 VT → EXC1R (36)

Axis 2

9 BK → X3R (41)  
21 GN → 0V\_X3R (41)  
10 RD → Y3R (41)  
22 WH → 0V\_Y3R (41)  
8 YE → 0V\_EXC1R (38)  
20 VT → EXC1R (38)

Axis 3

-XP5

2 BK → X4R (42)  
14 GN → 0V\_X4R (42)  
3 RD → Y4R (42)  
15 WH → 0V\_Y4R (42)  
6 YE → 0V\_EXC2R (36)  
18 VT → EXC2R (36)

Axis 4

4 BK → X5R (43)  
16 GN → 0V\_X5R (43)  
5 RD → Y5R (43)  
17 WH → 0V\_Y5R (43)  
7 YE → 0V\_EXC2R (36)  
19 VT → EXC2R (36)

Axis 5

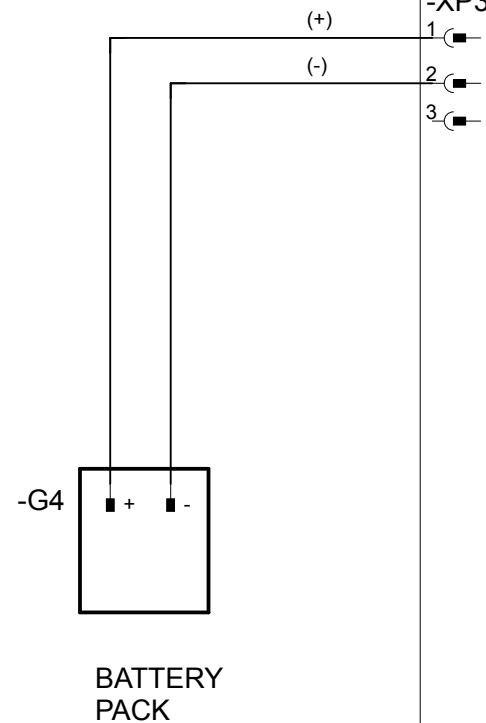
9 BK → X6R (44)  
21 GN → 0V\_X6R (44)  
10 RD → Y6R (44)  
22 WH → 0V\_Y6R (44)  
8 YE → 0V\_EXC2R (36)  
20 VT → EXC2R (36)

Axis 6

-XP4

5 BK → X7R (40)  
12 GN → 0V\_X7R (40)  
4 RD → Y7R (40)  
11 WH → 0V\_Y7R (40)  
2 YE → 0V\_EXC2R (36)  
9 VT → EXC2R (36)

Axis 7



GN

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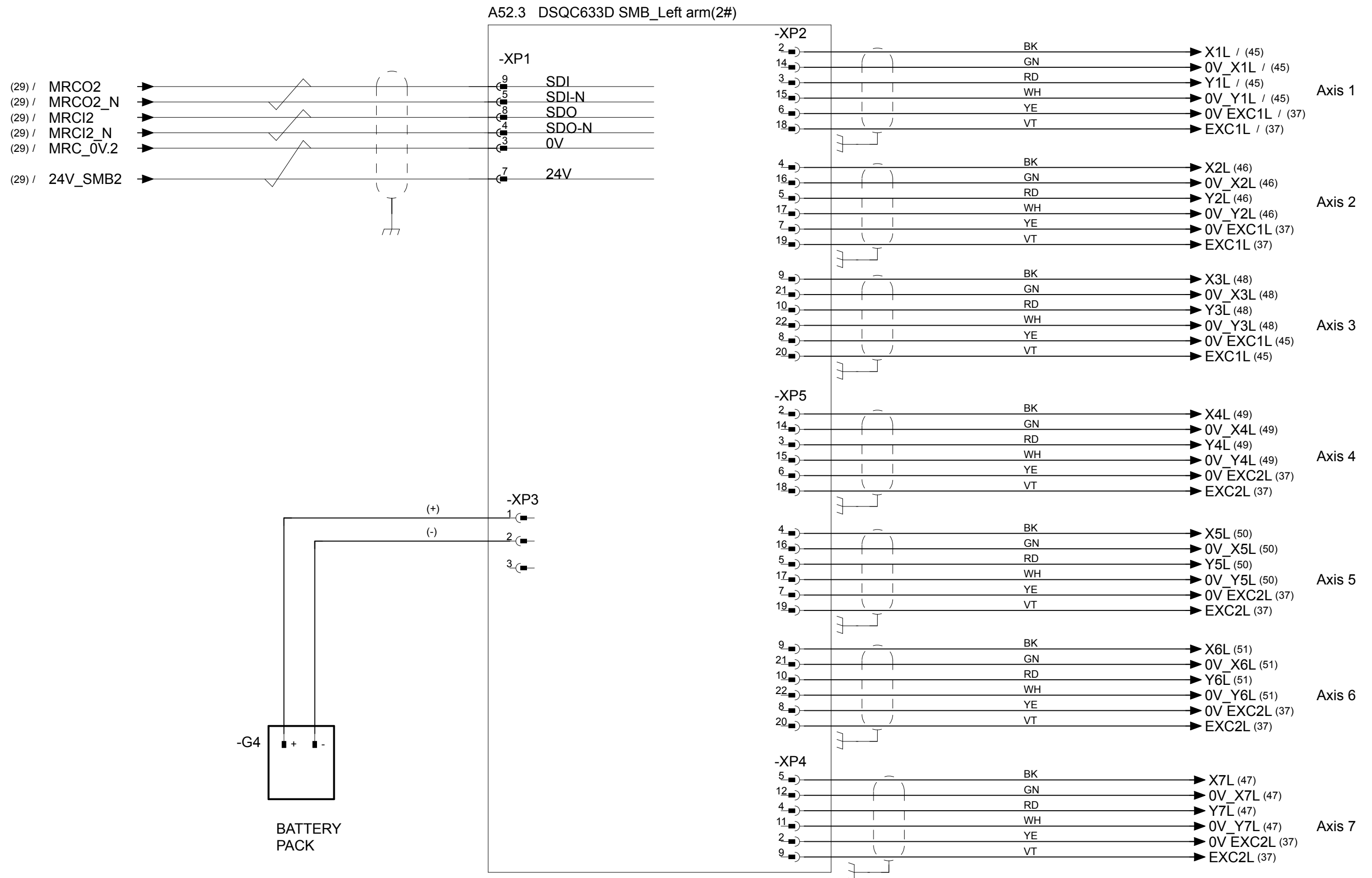



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DSQC633D SMB right arm

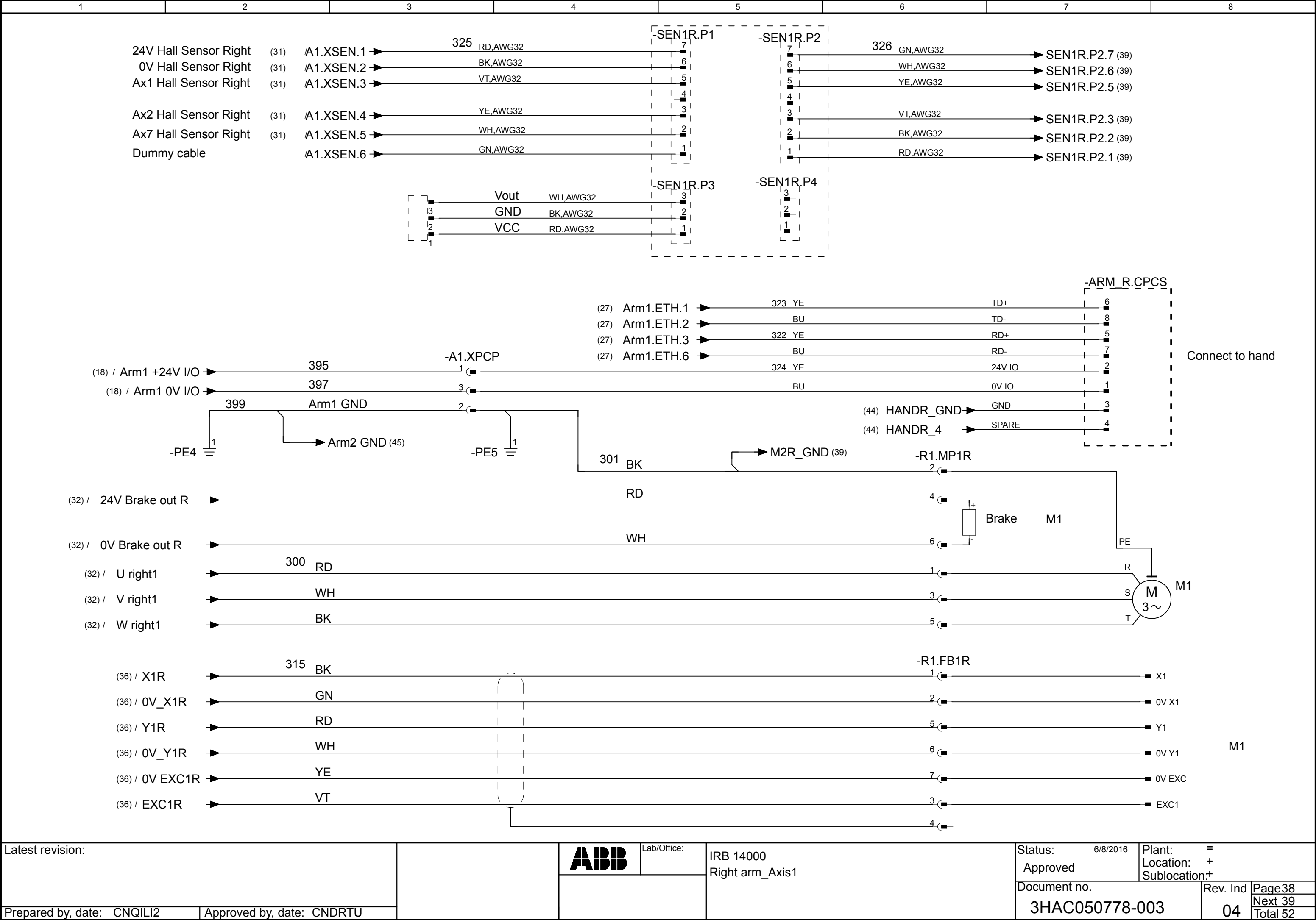
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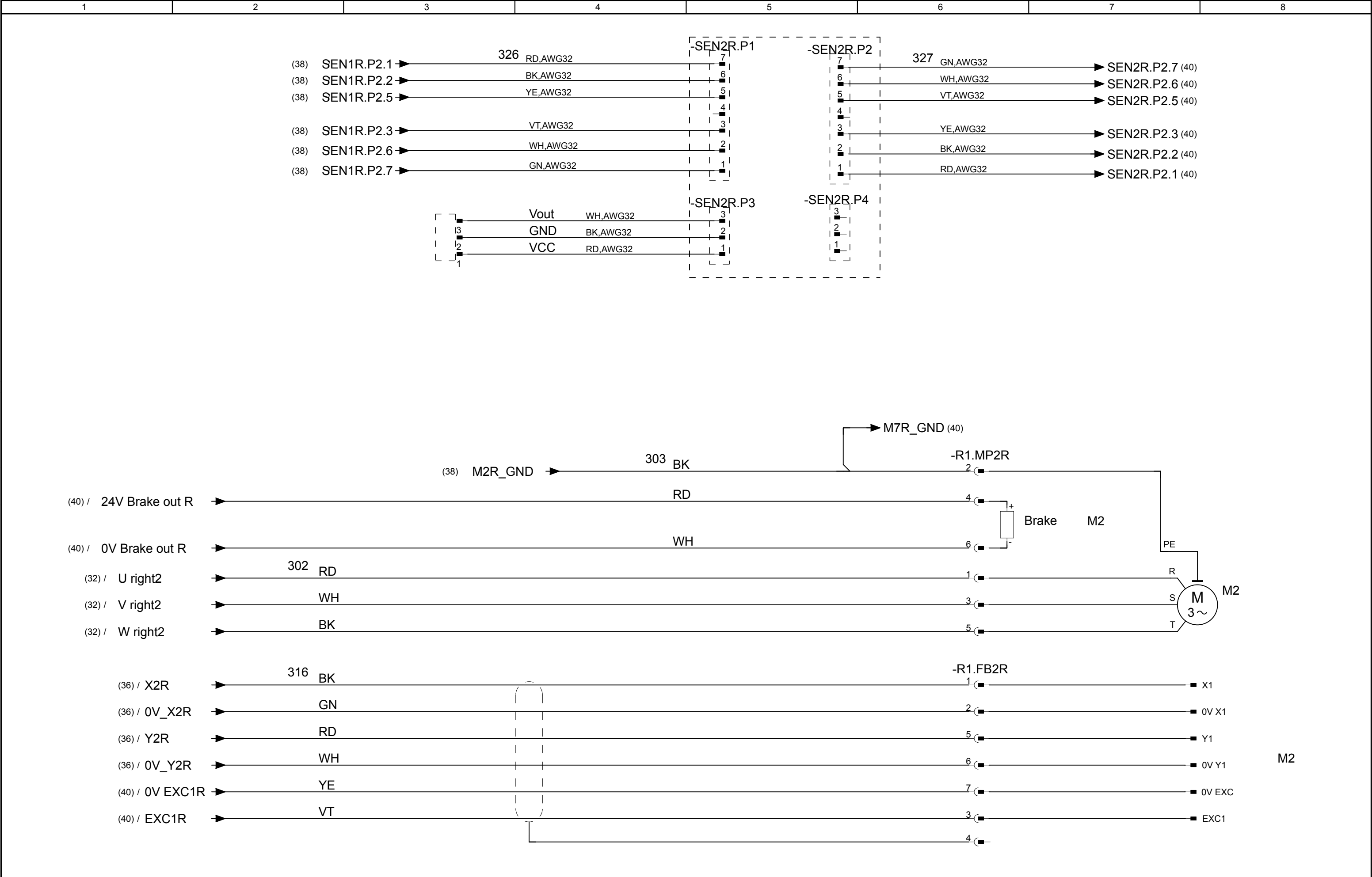
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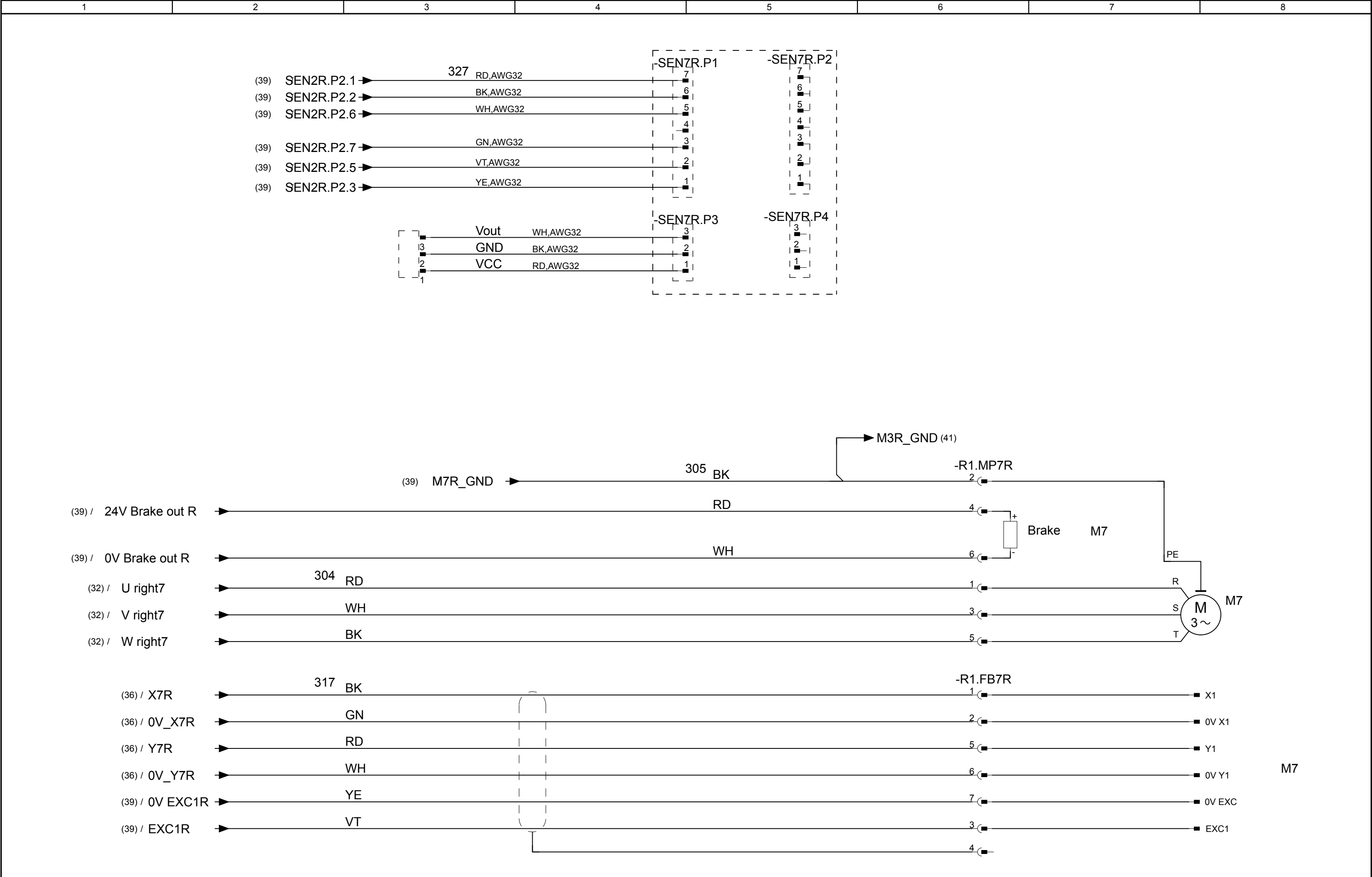
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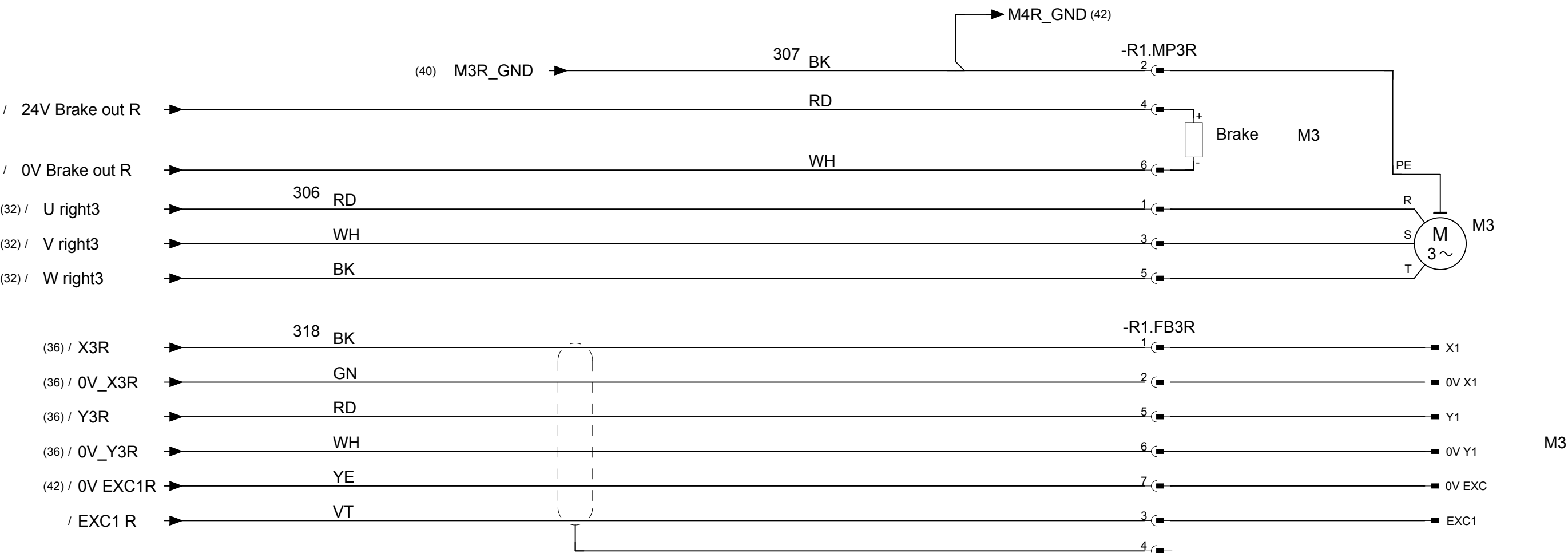
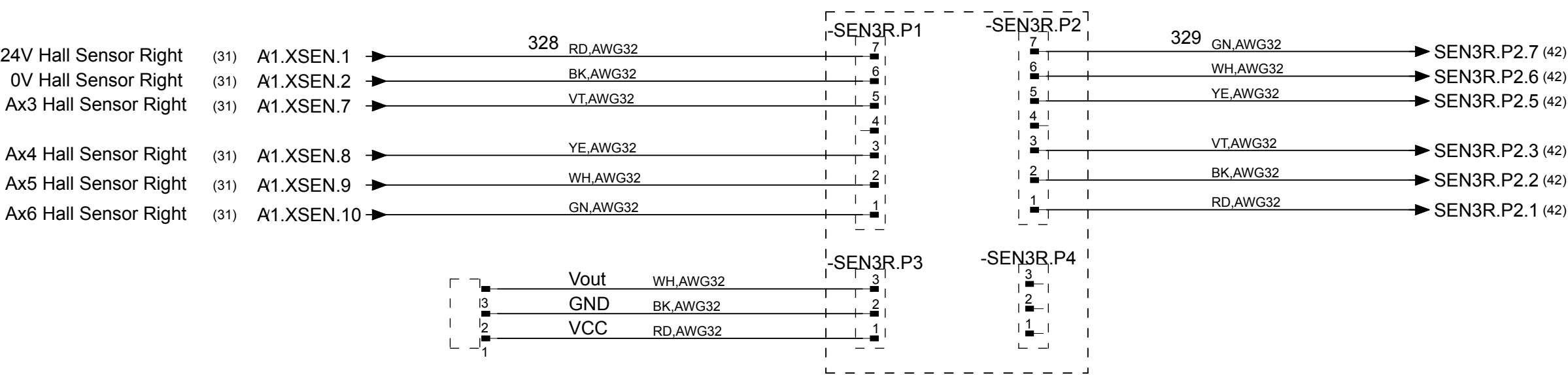


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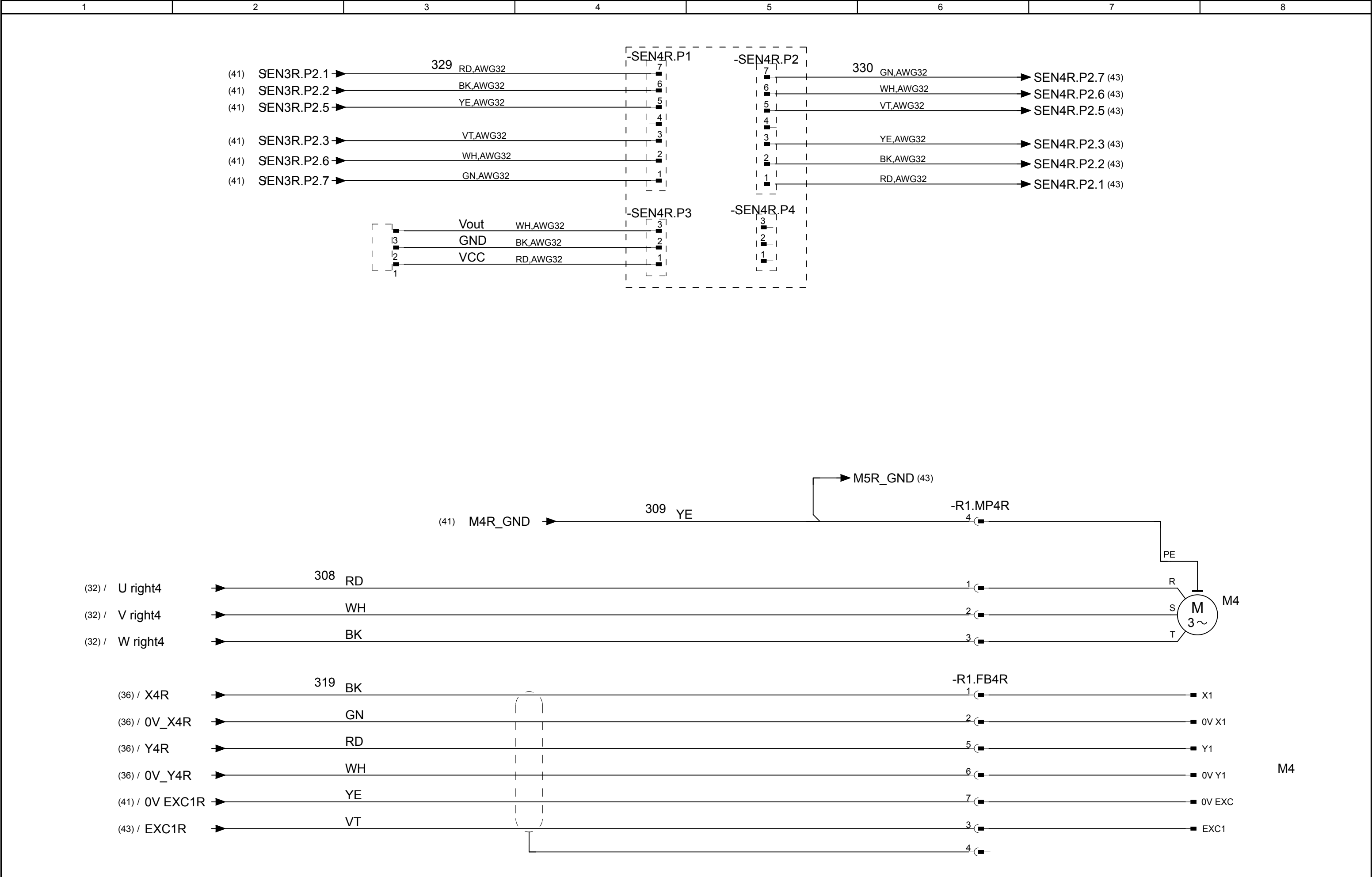


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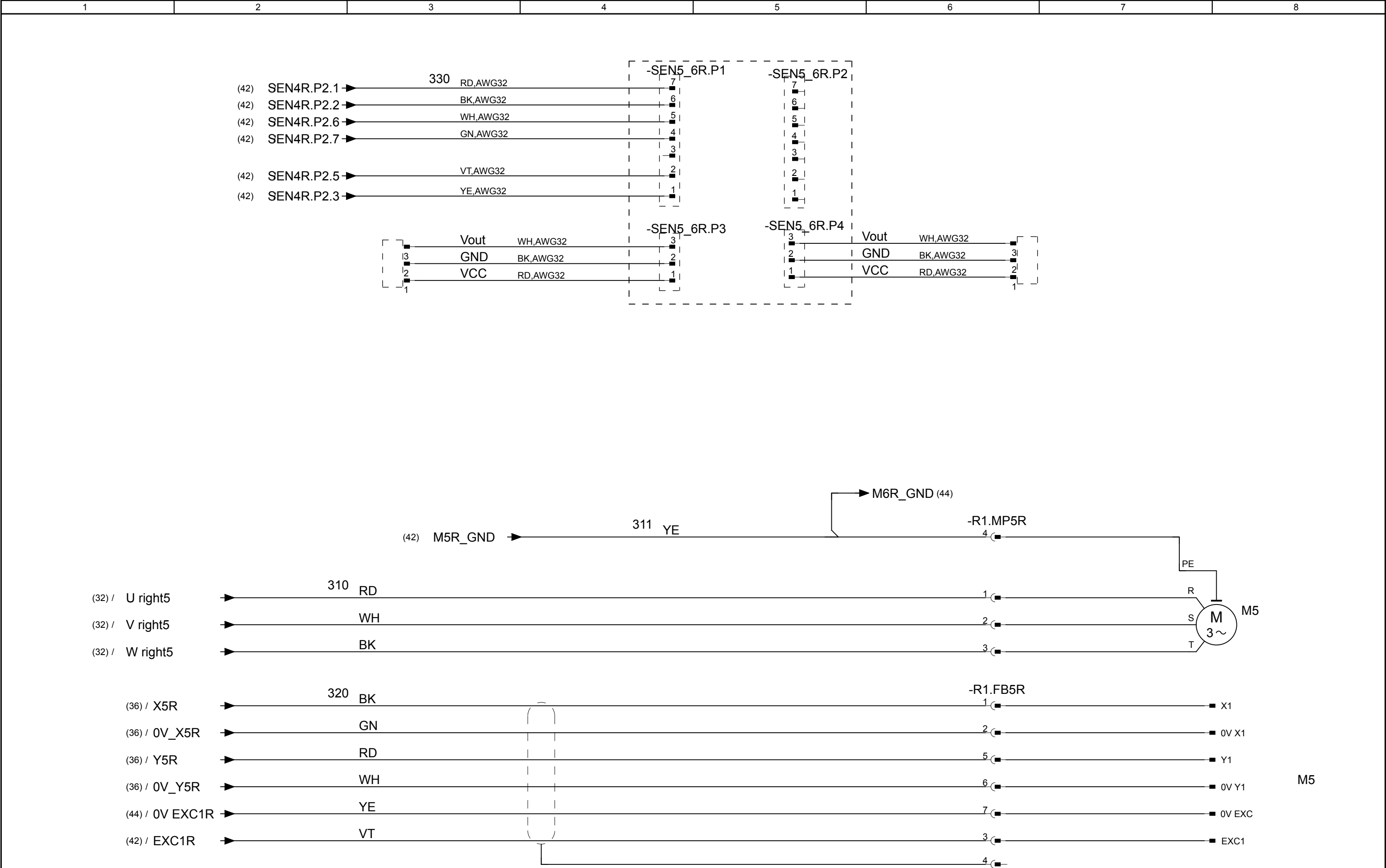
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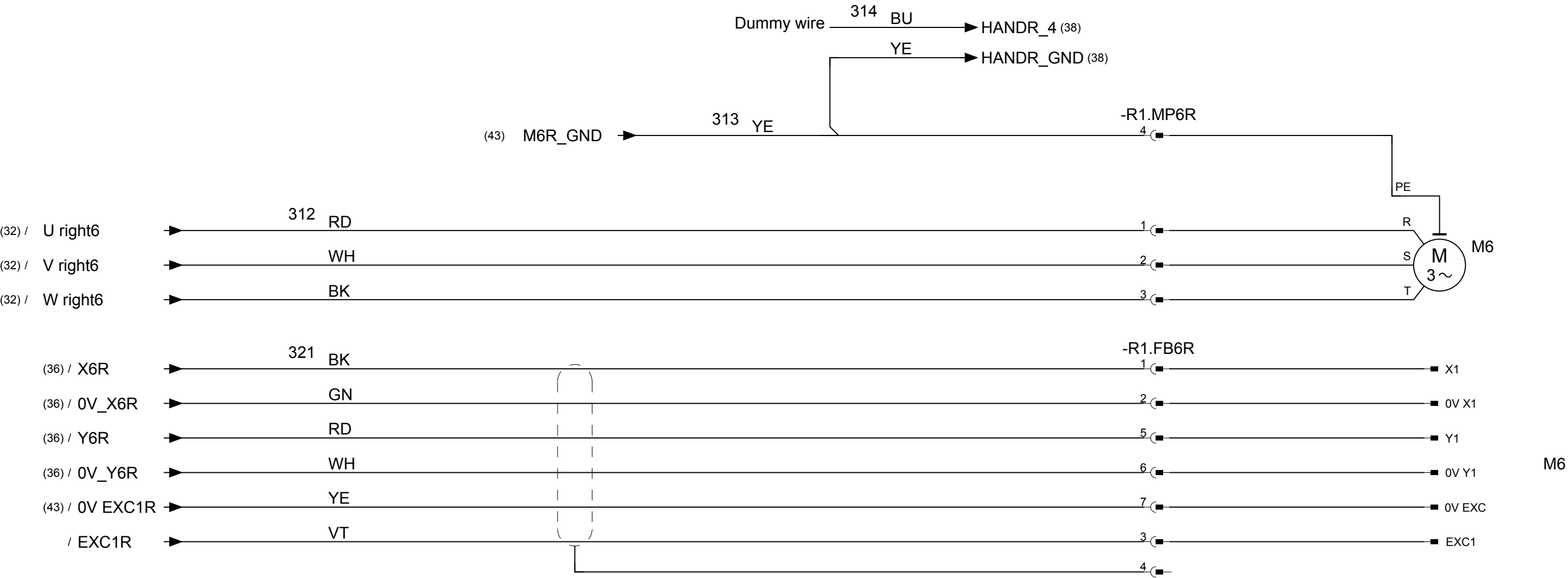


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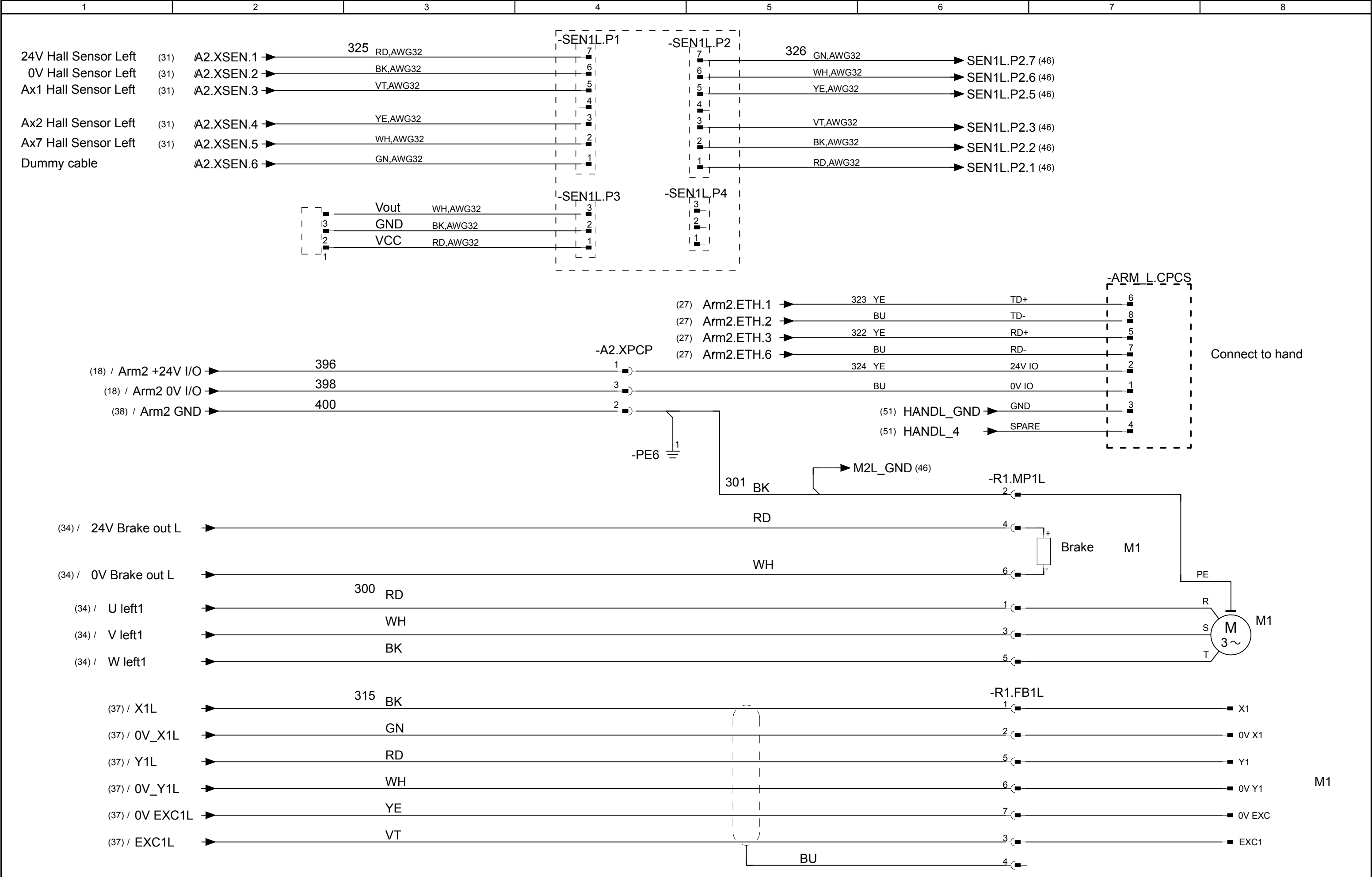


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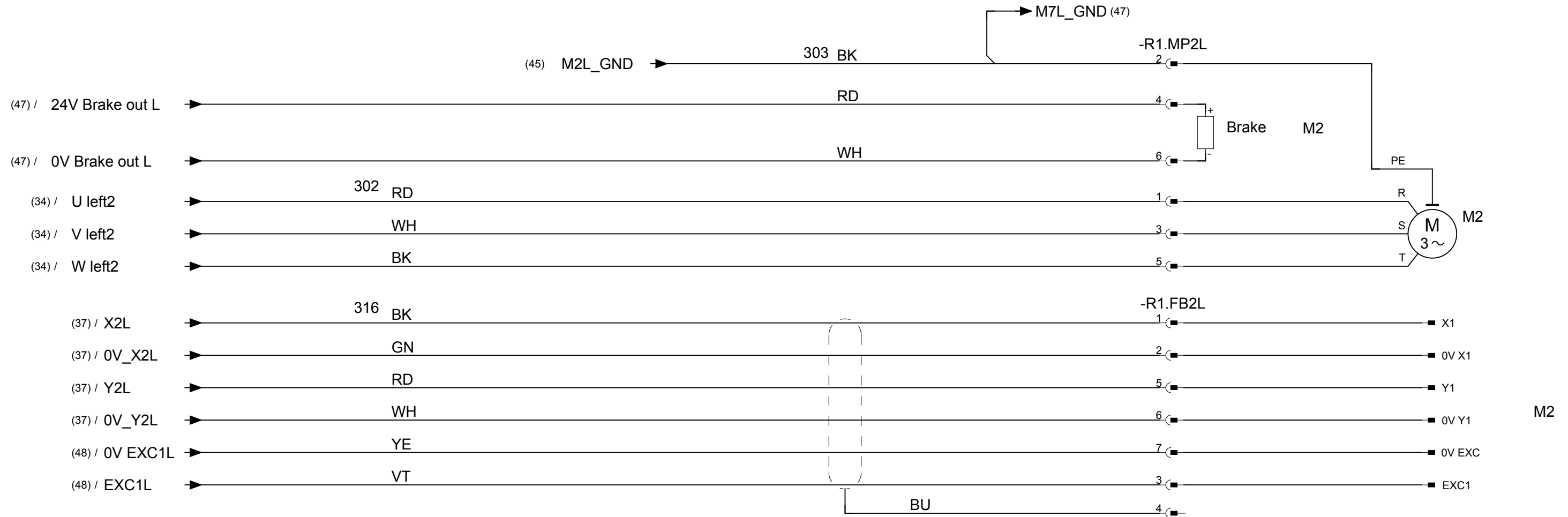
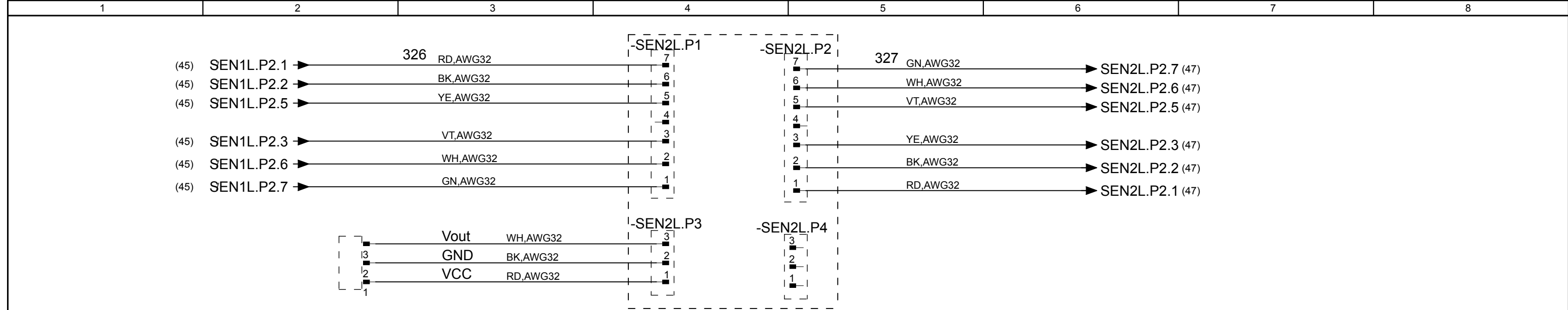
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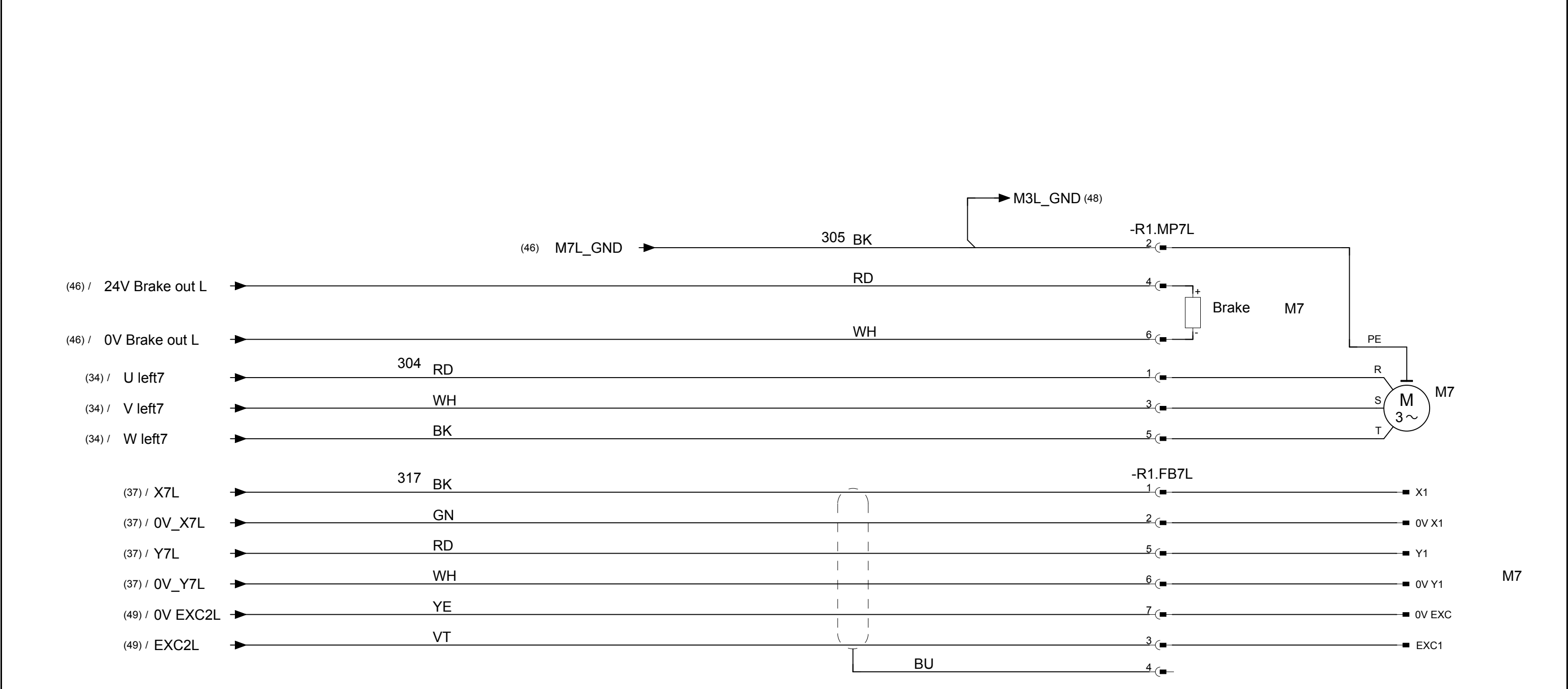
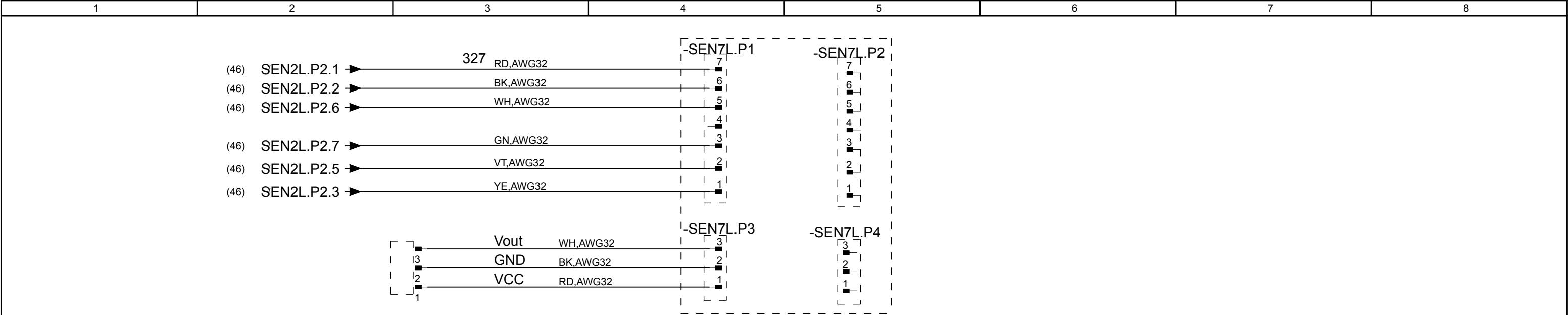



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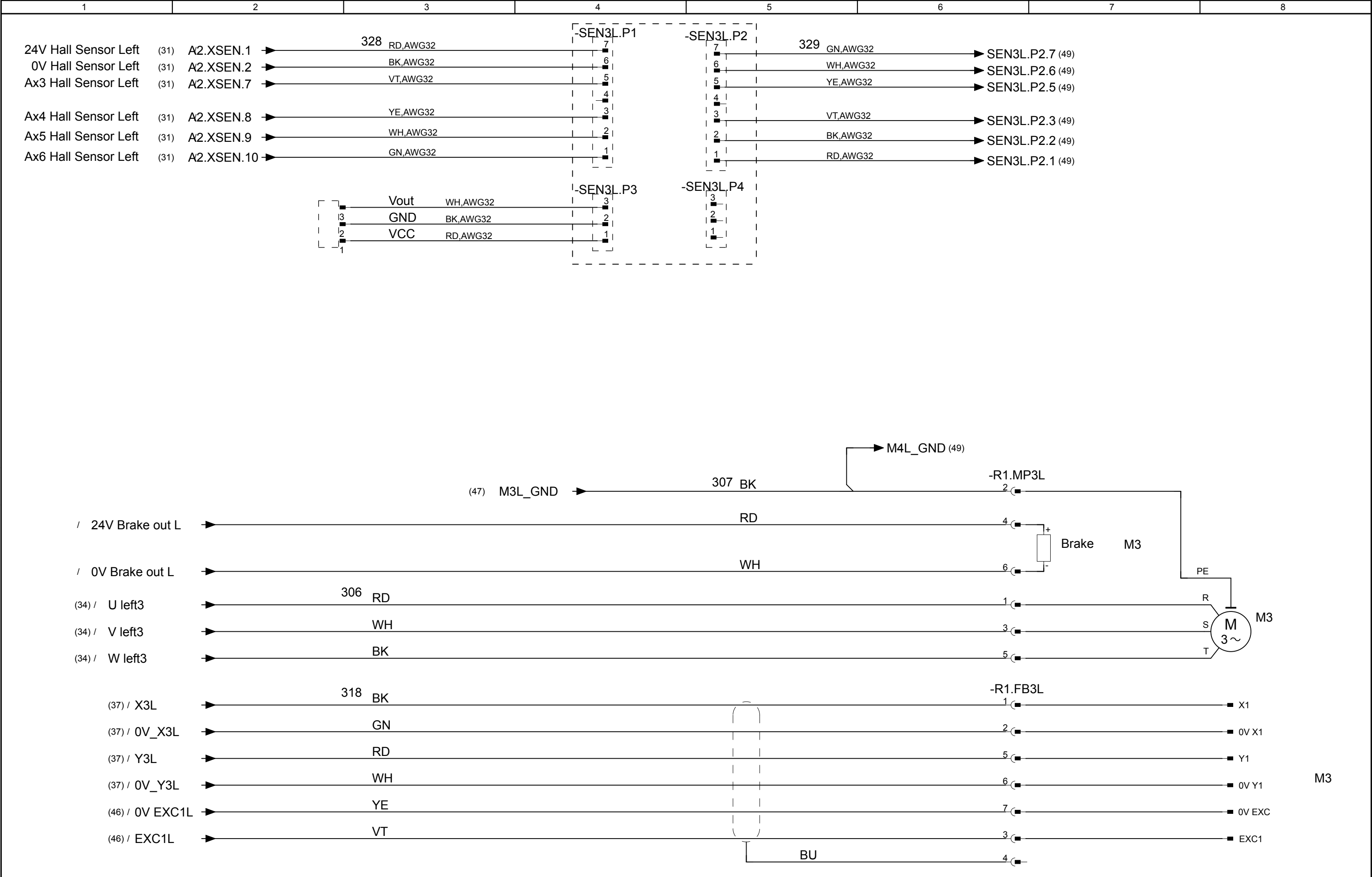
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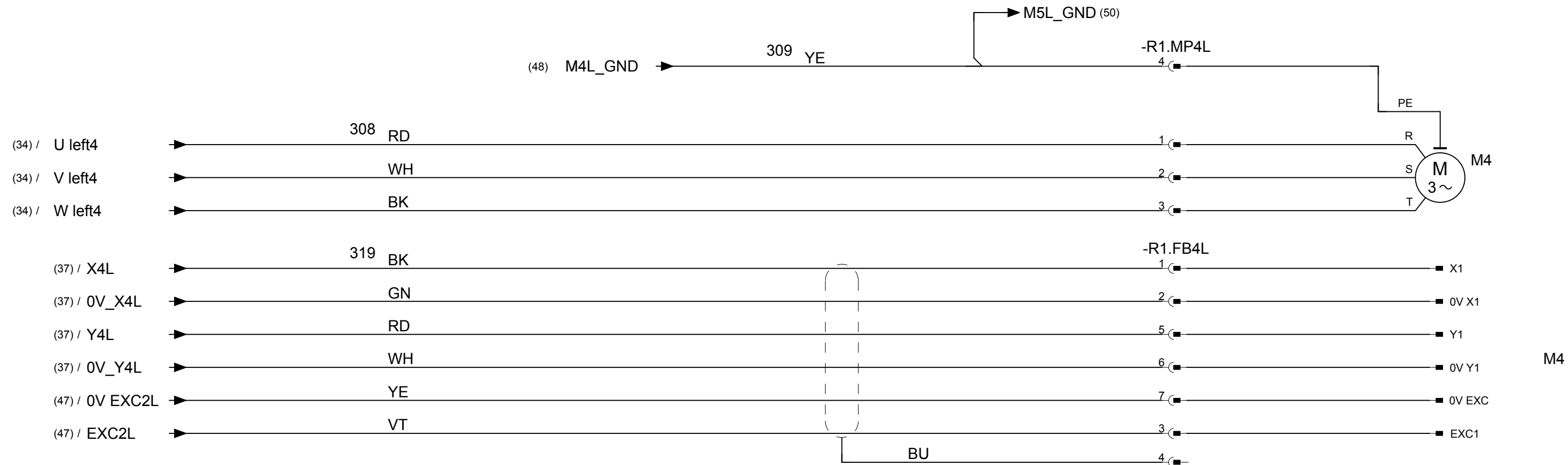
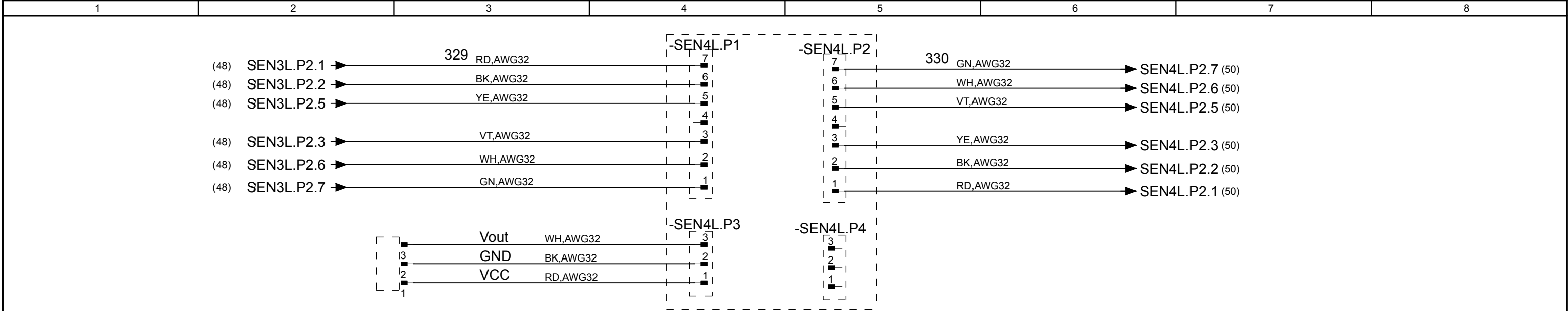



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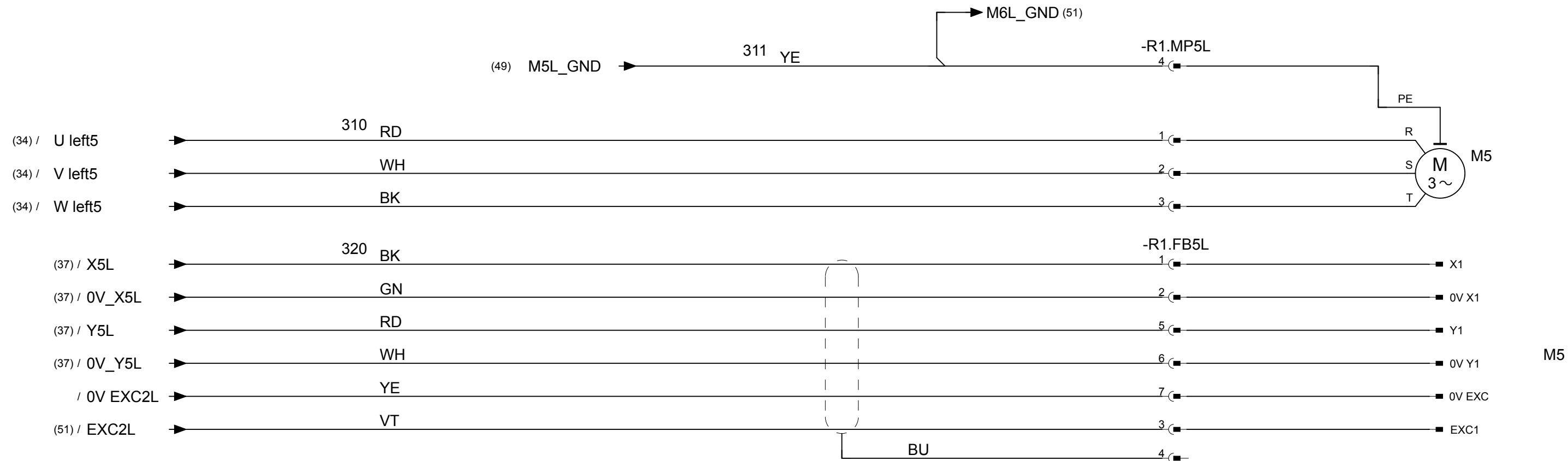
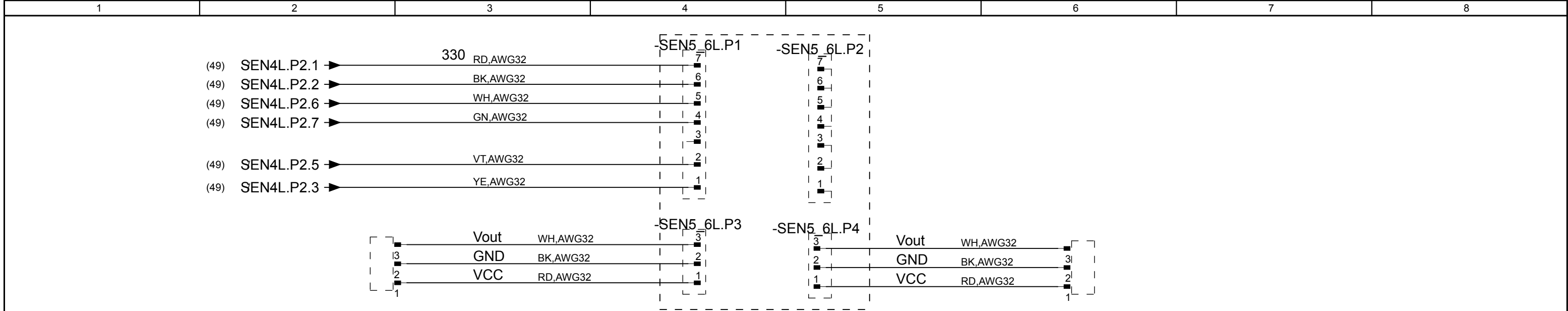
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