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Pudong New District, Shanghai, 201319  
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Document no.  
3HAC050778-003

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Description : IRB 14000  
 Drawing number : 3HAC050778-003  
 Drawing version : 06  
 Date :

Customer :  
 Year of construction :

Drawn by : CNHACHE26  
 Number of pages : 54

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	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.																					
	Störningsfri jord/ Functional earthing.		Styrning genom vridning/ Actuator(operated by turning).		Styrning, elektromagnetisk styrdon/ Actuator, by electromagnetic.	Example: Cable with four colour coded wire, square area AWG24 and cable number 709.																					
	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 receive 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-		709 AWG24   BK   BN   RD/OG   BK/OG																					
	Tvinnade ledare/ Twisted conductors.		Skarvhylsa Through joint			Translation table square area from AWG to mm2.		<table border="1"> <tr> <td>AWG28</td><td>0,093</td><td>AWG18</td><td>0,93</td> </tr> <tr> <td>AWG26</td><td>0,15</td><td>AWG16</td><td>1,25</td> </tr> <tr> <td>AWG24</td><td>0,25</td><td>AWG14</td><td>2,44</td> </tr> <tr> <td>AWG22</td><td>0,34</td><td>AWG12</td><td>3,02</td> </tr> <tr> <td>AWG20</td><td>0,56</td><td>AWG10</td><td>4,65</td> </tr> </table>		AWG28	0,093	AWG18	0,93	AWG26	0,15	AWG16	1,25	AWG24	0,25	AWG14	2,44	AWG22	0,34	AWG12	3,02	AWG20	0,56
AWG28	0,093	AWG18	0,93																								
AWG26	0,15	AWG16	1,25																								
AWG24	0,25	AWG14	2,44																								
AWG22	0,34	AWG12	3,02																								
AWG20	0,56	AWG10	4,65																								
	Trippel tvinnade ledare/ Triple twisted conductors.		Filter/ Filter.	Example, showing how to read the information before and after a signal.																							
	Fyrdubbelt tvinnade ledare/ Quadruple twisted conductors.		Lampa/ Lamp.																								
	Part A Tvinnade ledare part A med part B Twisted conductors part A with part B Part B		Kontakthylsa hona/ Socket outlet female.	<p>Extra sheet number .1. Signal name</p> <p>Wire number      Wire data</p> <p>(92) (92.1) +24V DRIVE;2      -W725 AWG20 BK</p> <p>Target sheet 92      Target sheet 92.1</p> <p>Signal counter      XS1 =Socket</p> <p>AXIS COMP: BOARD A42 XP1 = Pin 1 X1 = PIN or Socket</p>																							
	Skärm/ Shield.		Kontaktstift hane/ Pin male.																								



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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)

2020-04-10 Ver05  
Page 26.2 Added safety relay SSR10M auto-rest  
Page 26.3 Added safety relay SSR10M manual-reset

2020-10-14 Ver06  
Page16 Change the direction of connectors  
Page17 Change the direction of connectors

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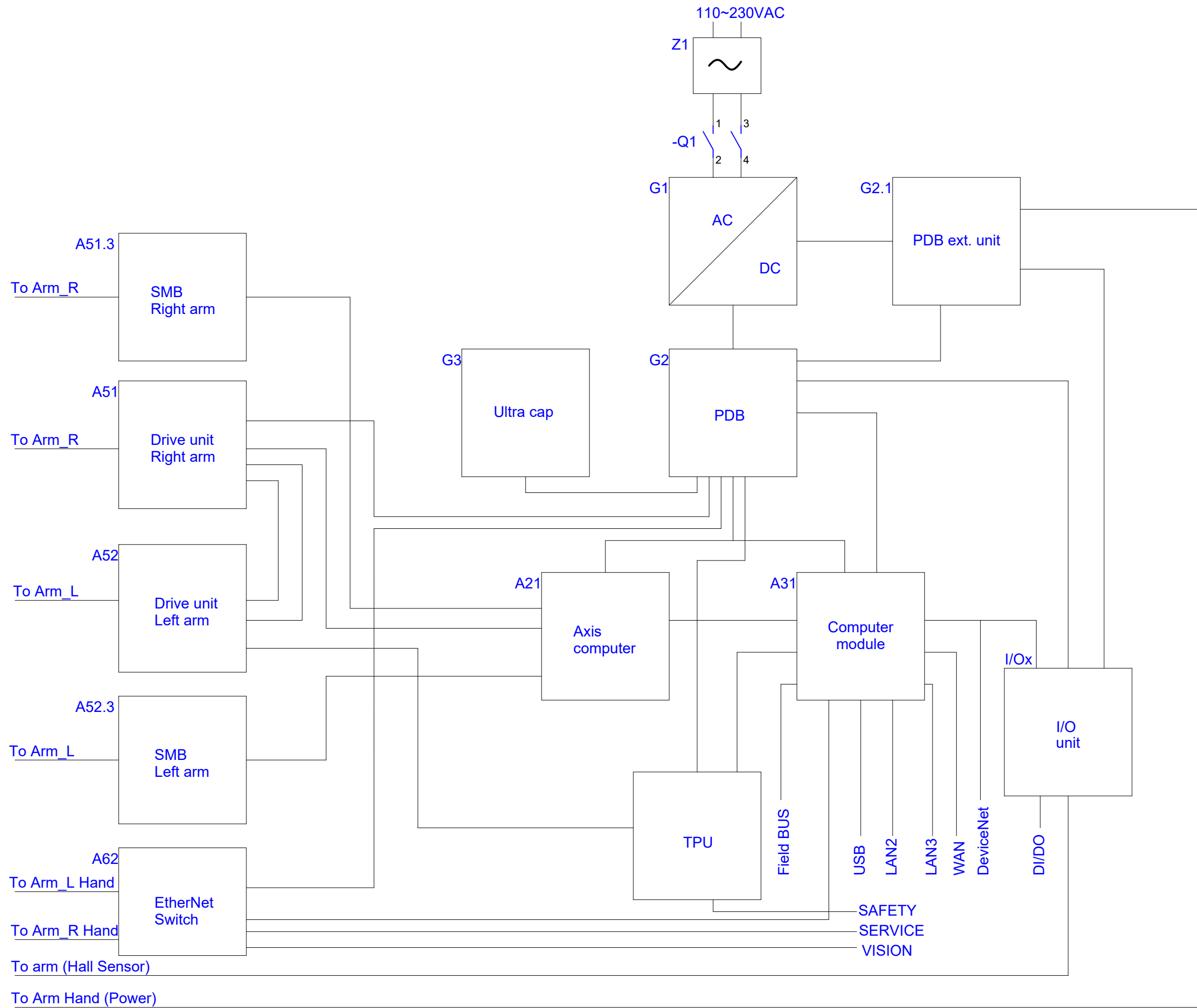


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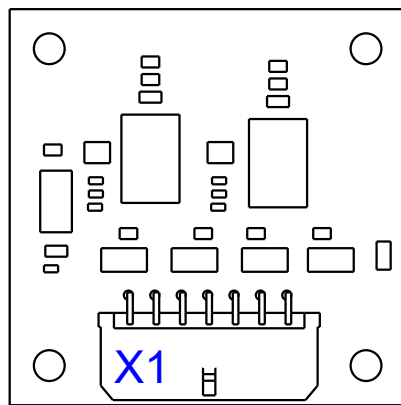
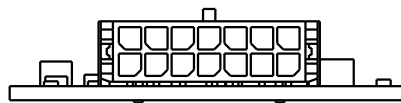
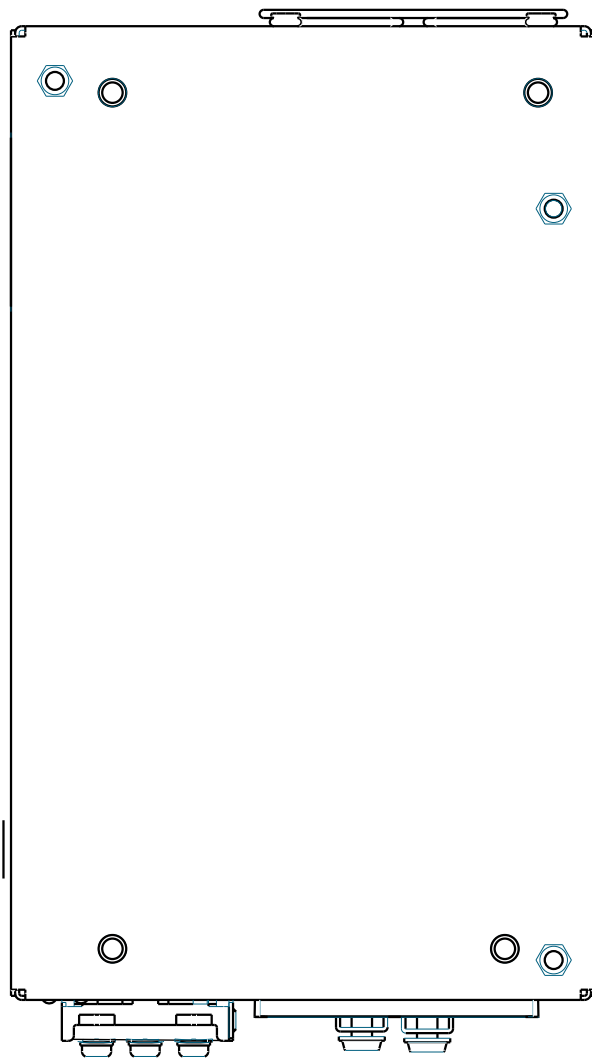
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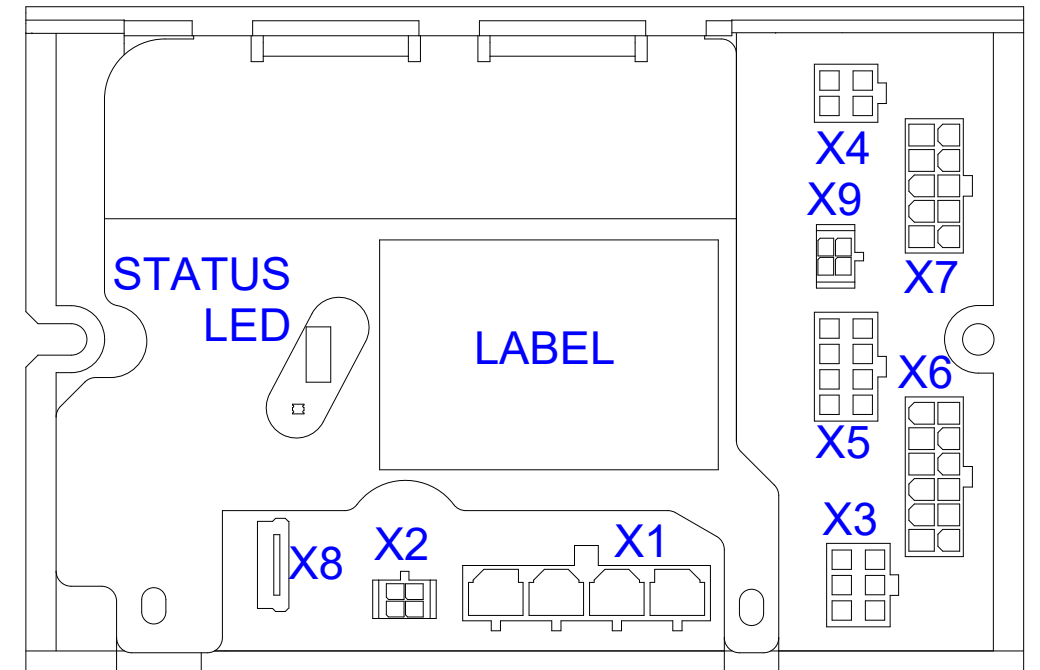
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 BLOCK DIAGRAM

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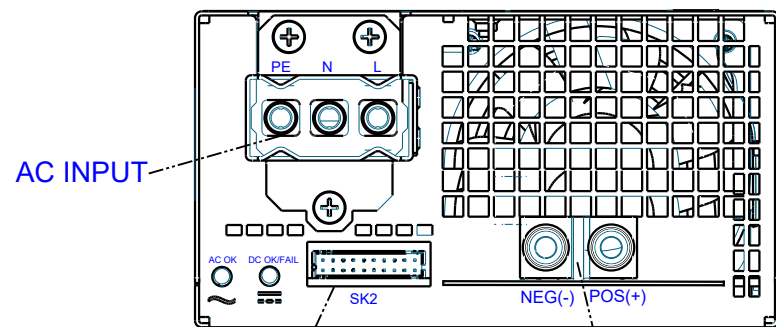




G2.1 PDB EXTENSION BOARD



G2 POWER DISTRIBUTION BOARD



AC INPUT

SIGNAL CONNECTOR

DC OUTPUT

G1 POWER SUPPLY

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VIEW OF POWER UNIT

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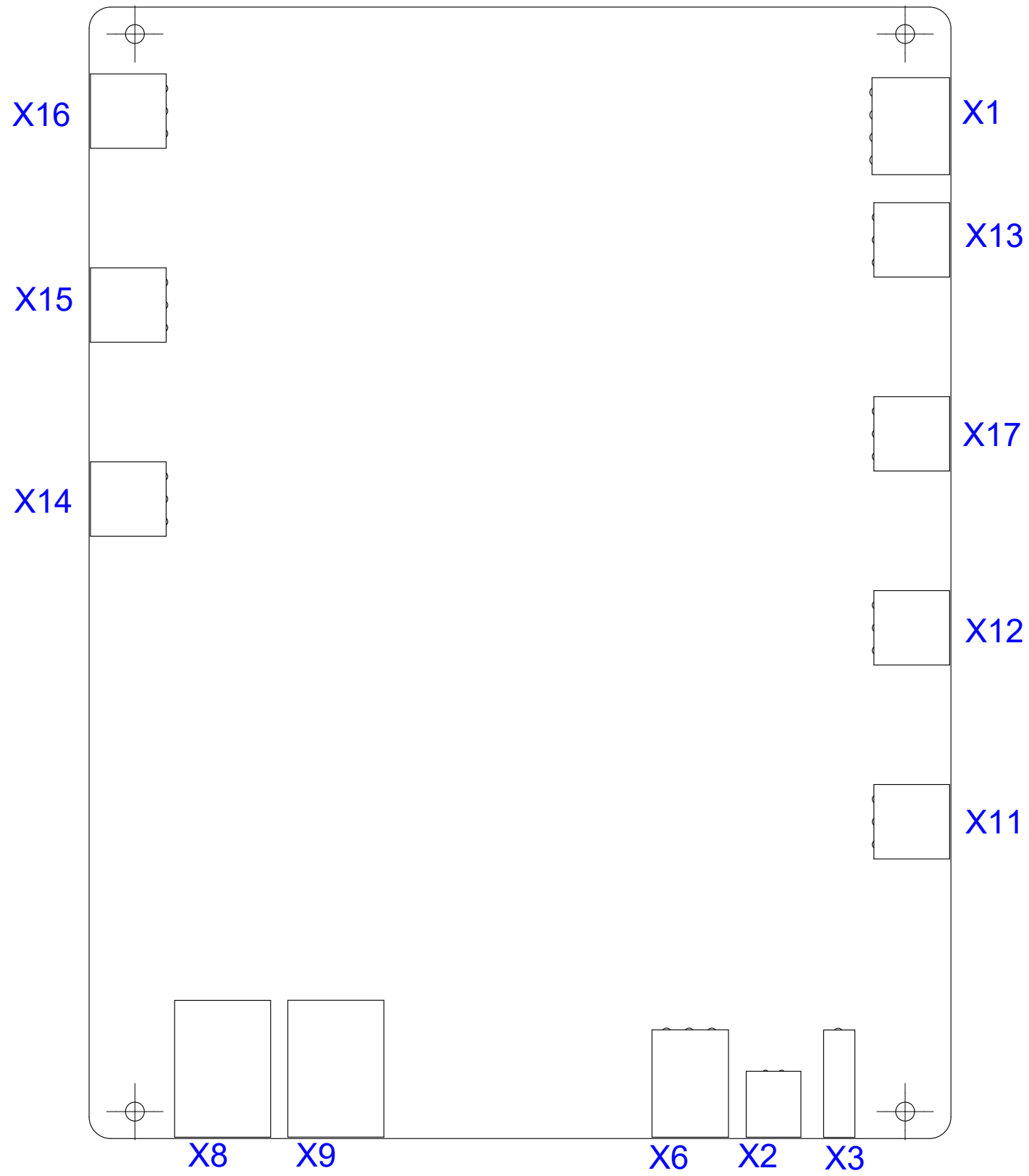
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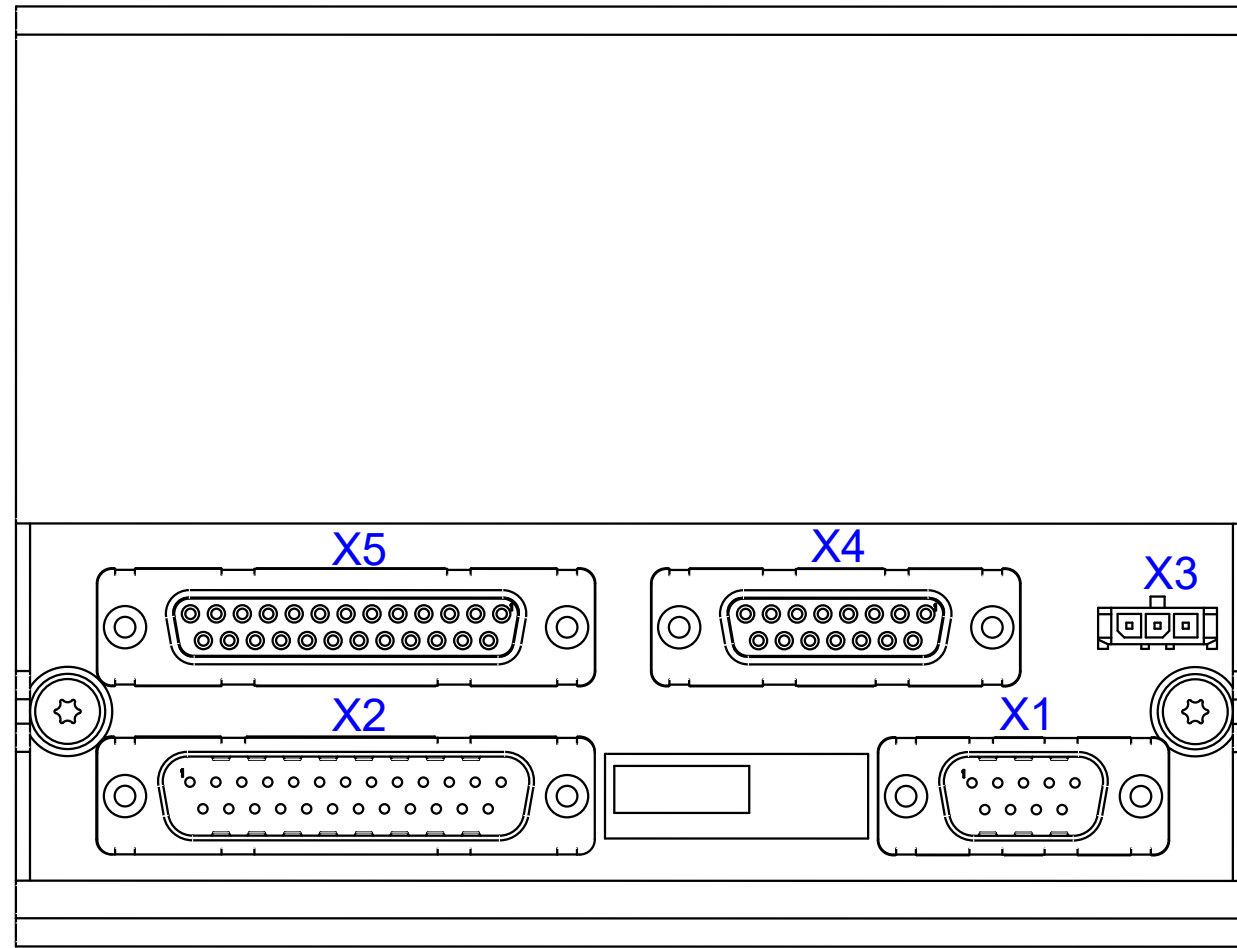
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### A51/A52 DRIVE UNIT

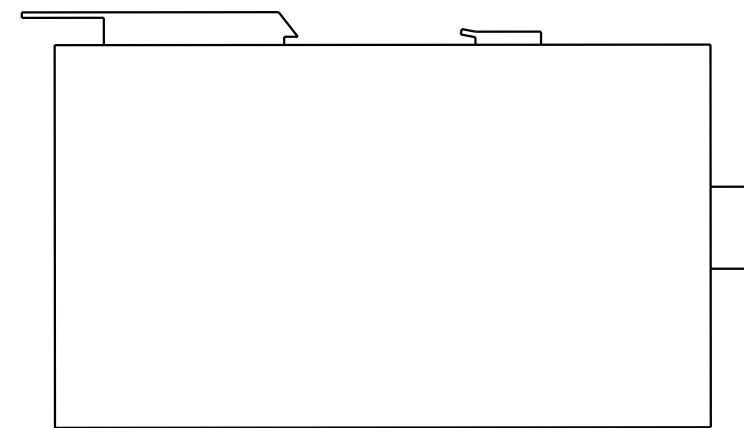
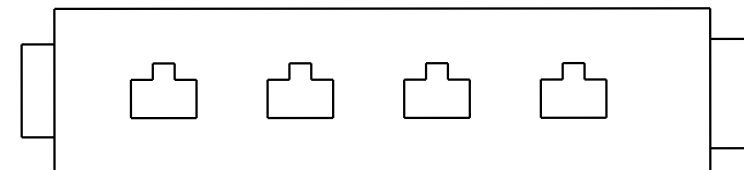
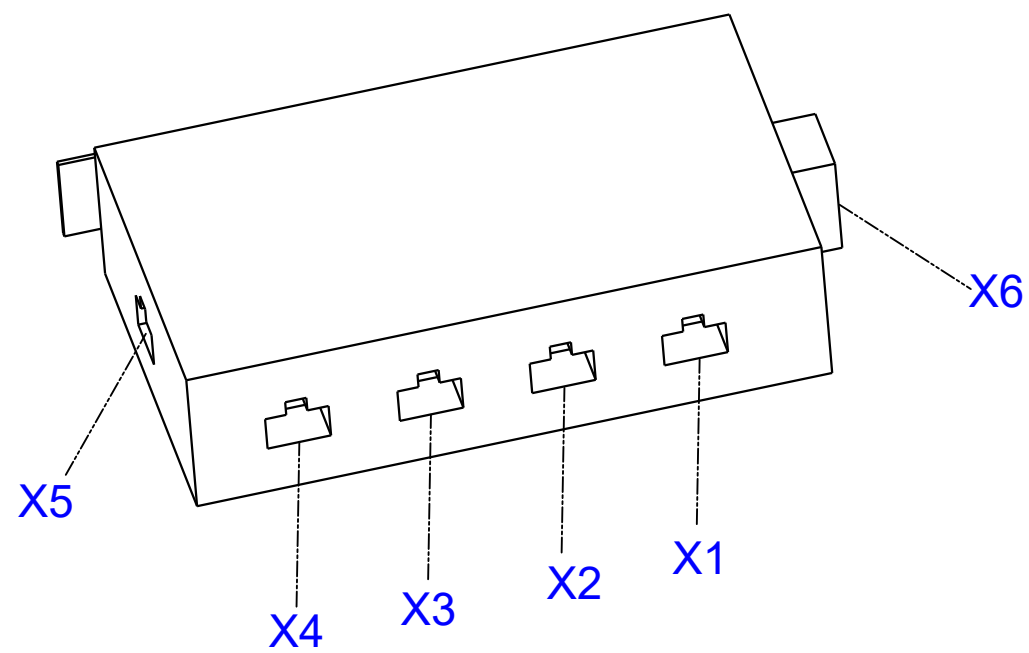
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A51.3/A52.3 SMB UNIT

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A33 ETHERNET SWITCH UNIT

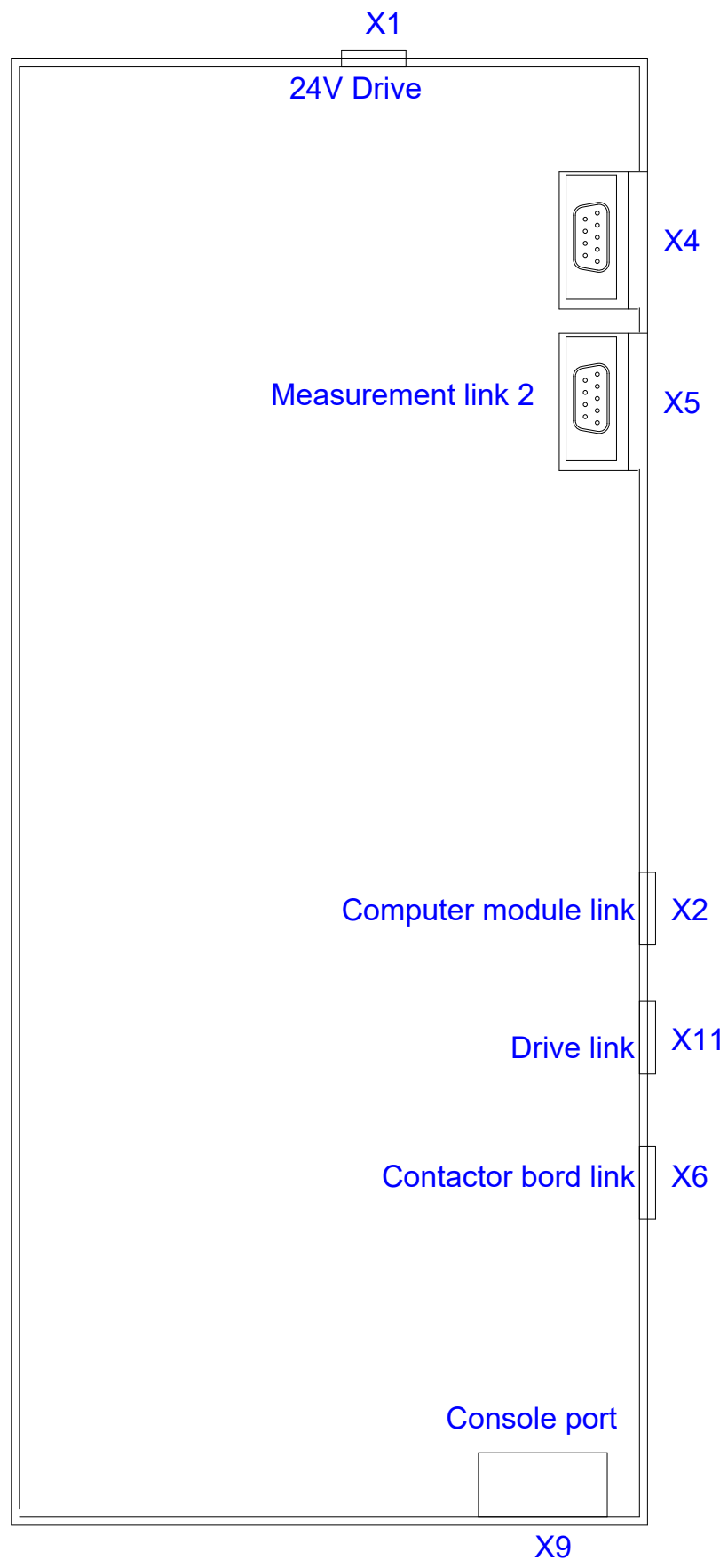
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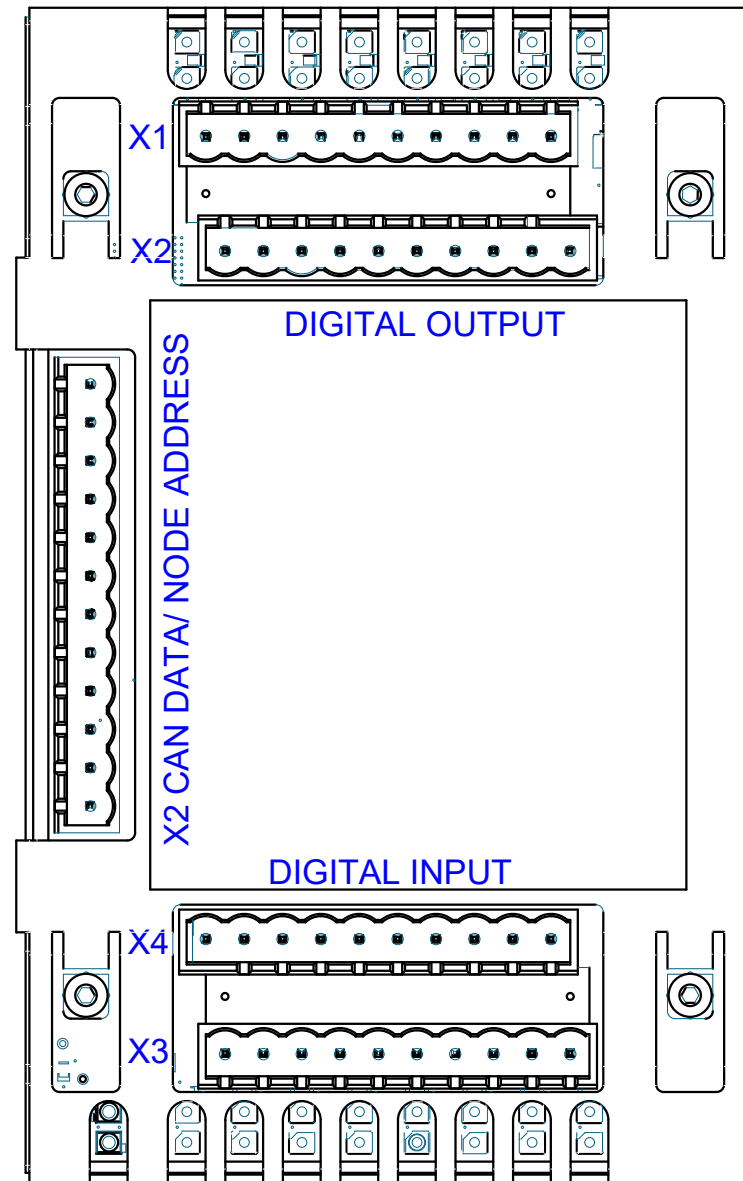
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A42 AXIS COMPUTER UNIT


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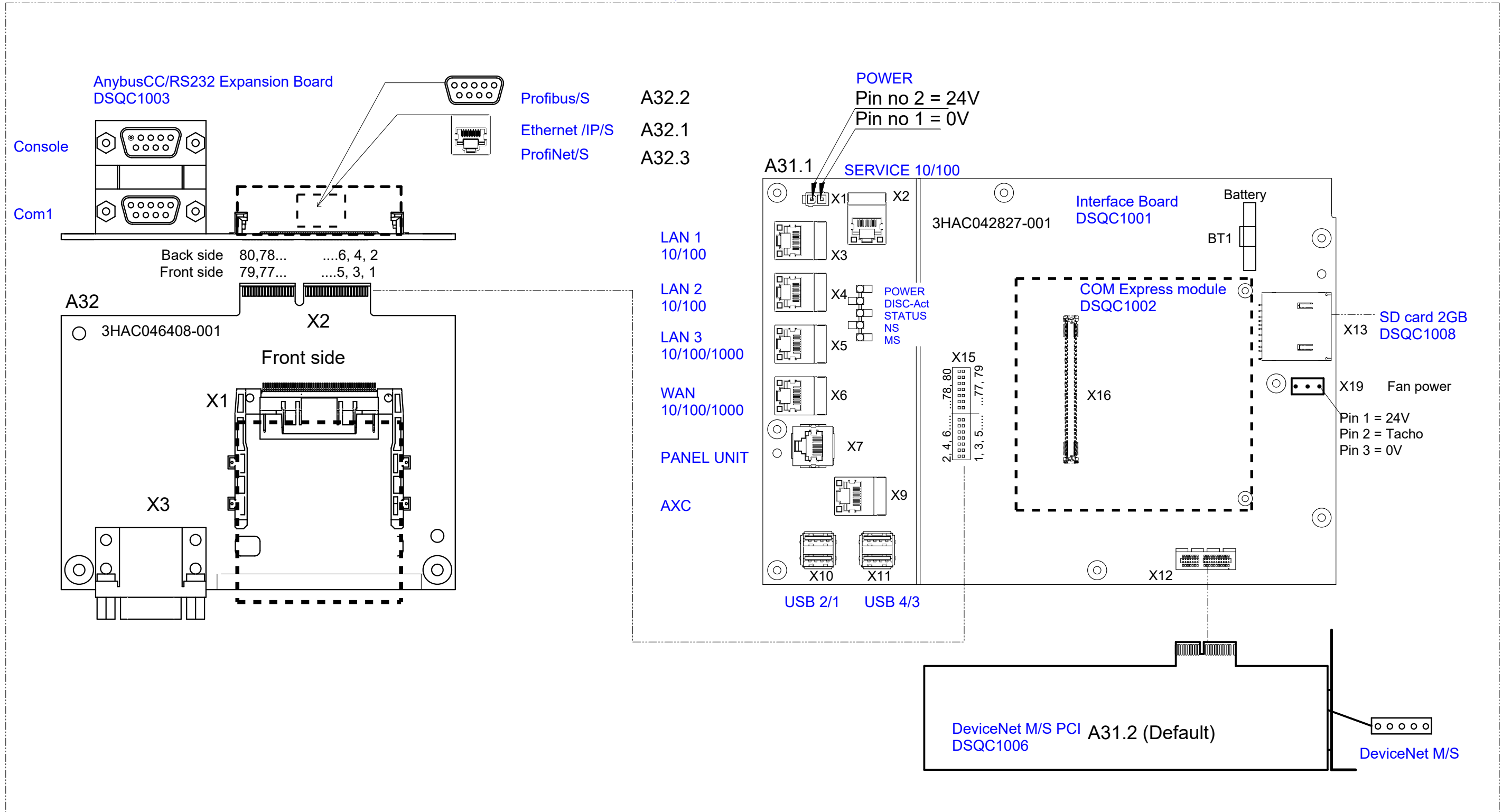


DSQC652 IO UNIT

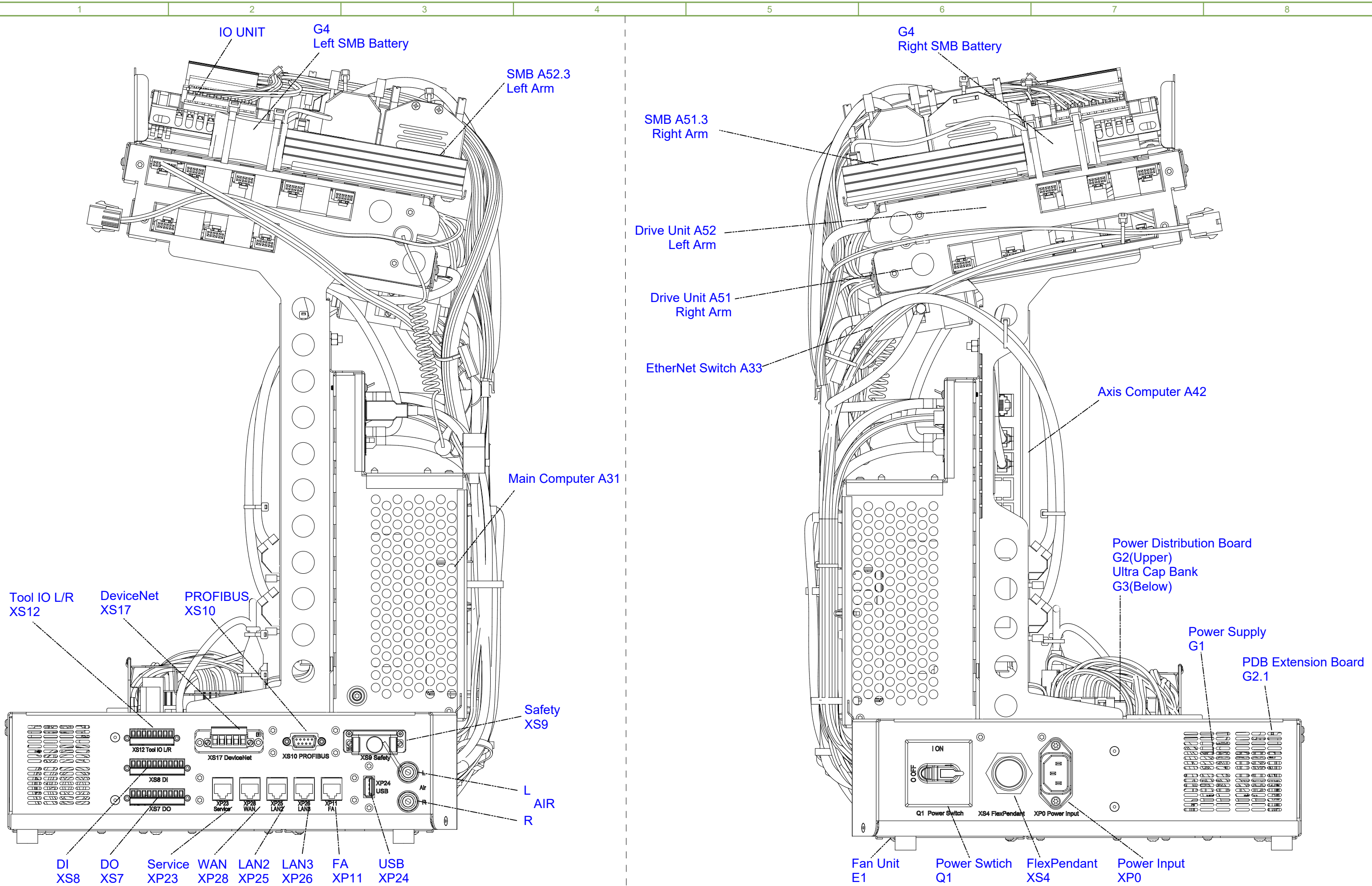
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**A31**  
Main Computer Unit  
DSQC1000



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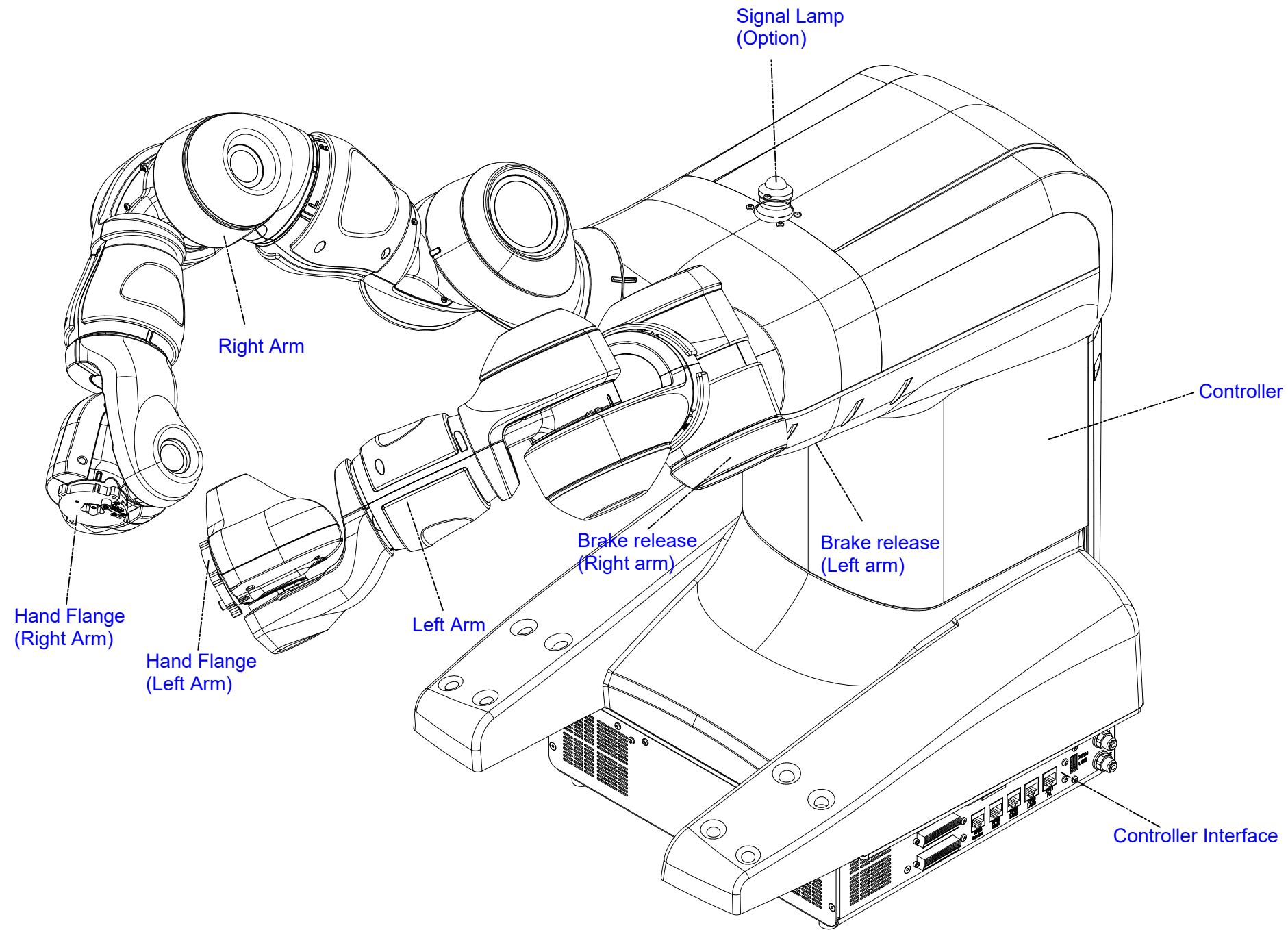
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 SIDE VIEW OF CONTROLLER

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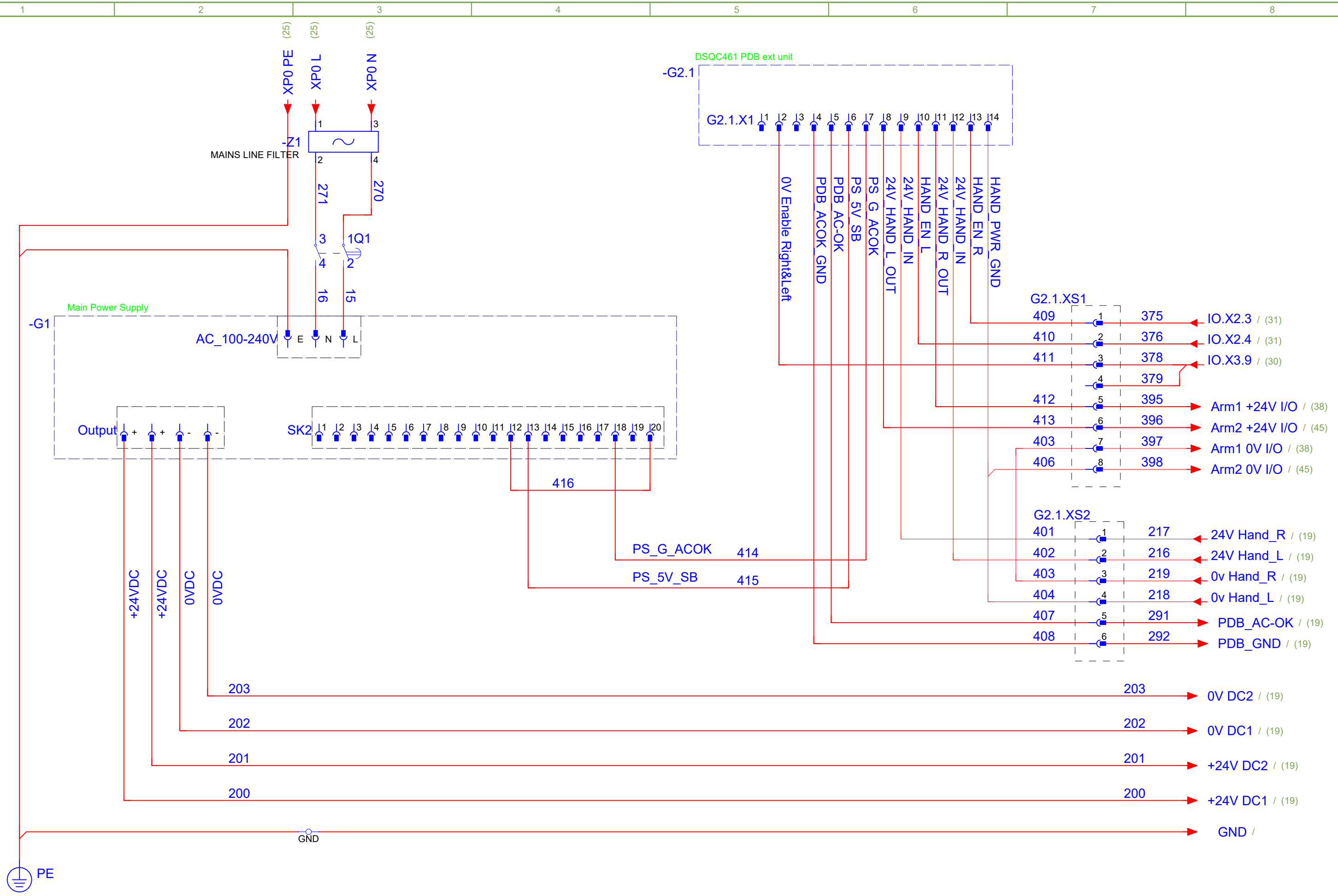




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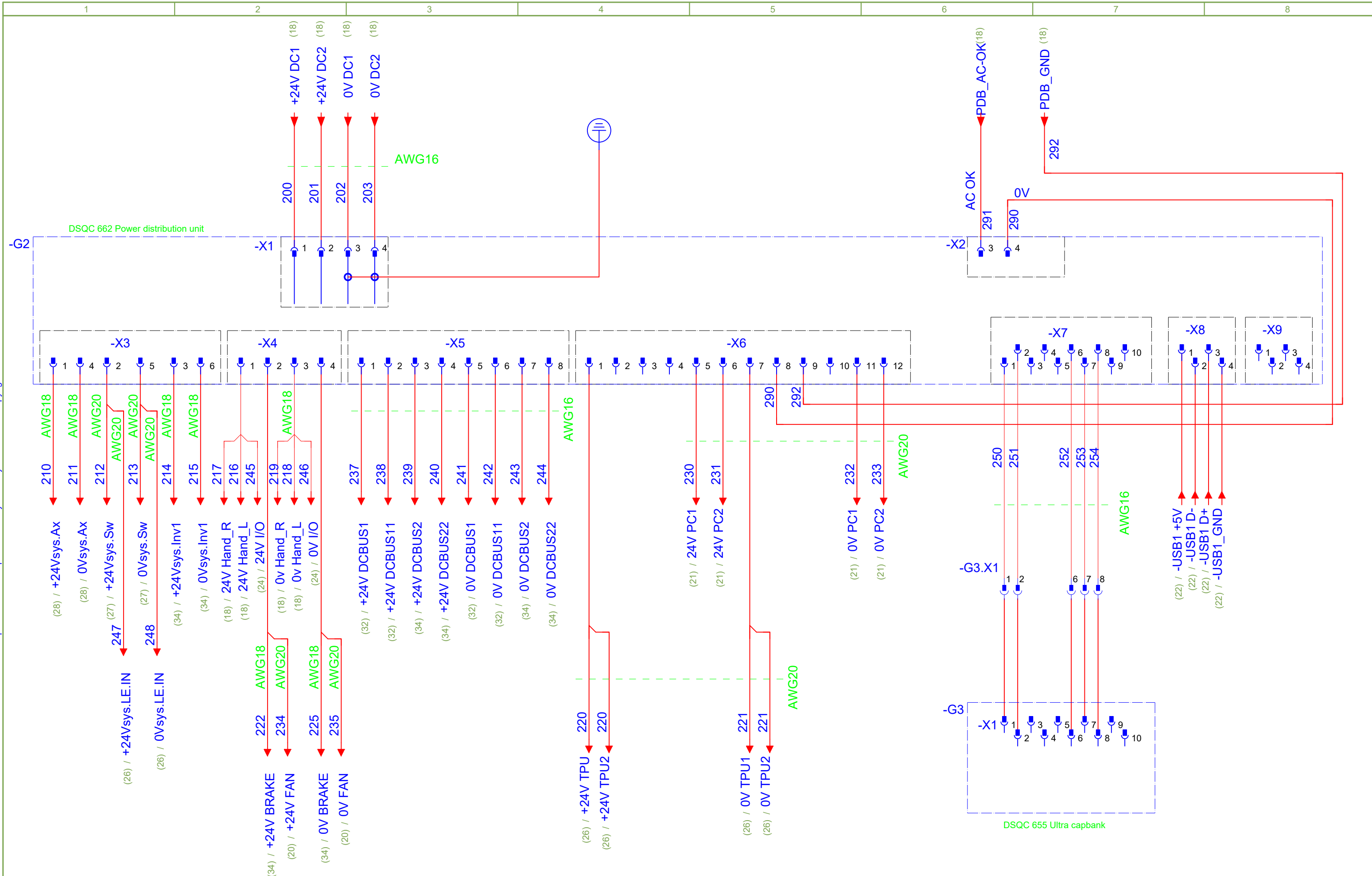
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 Main Power Supply

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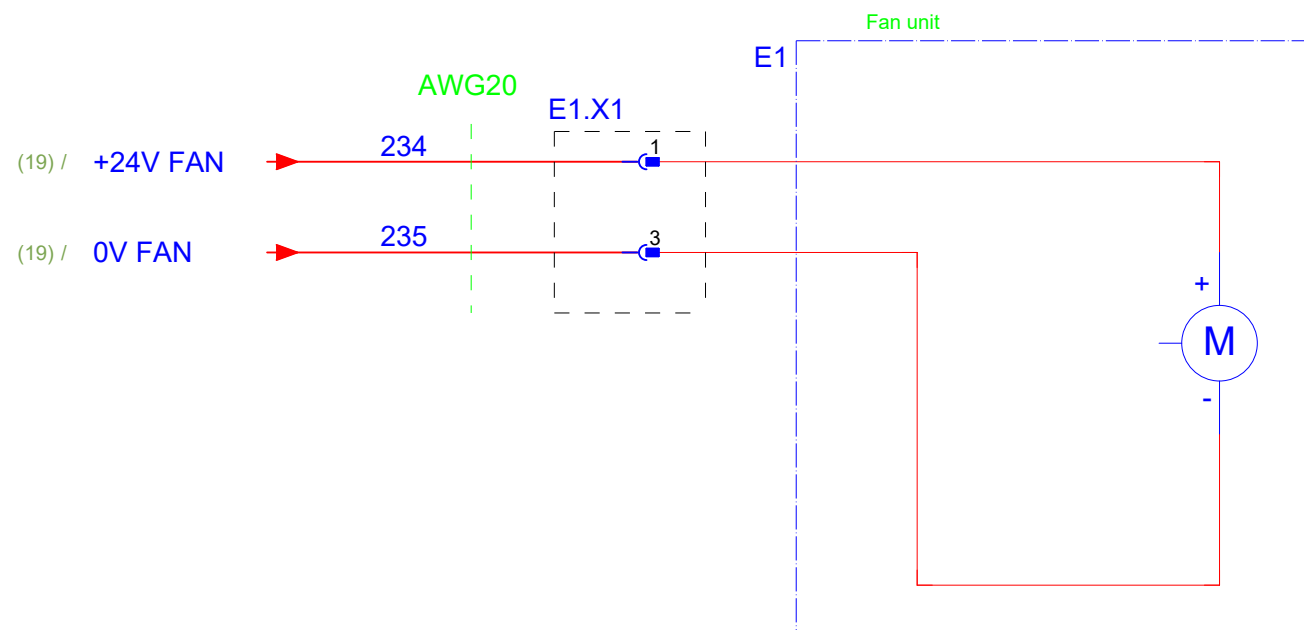
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DSQC 662 Power distribution unit

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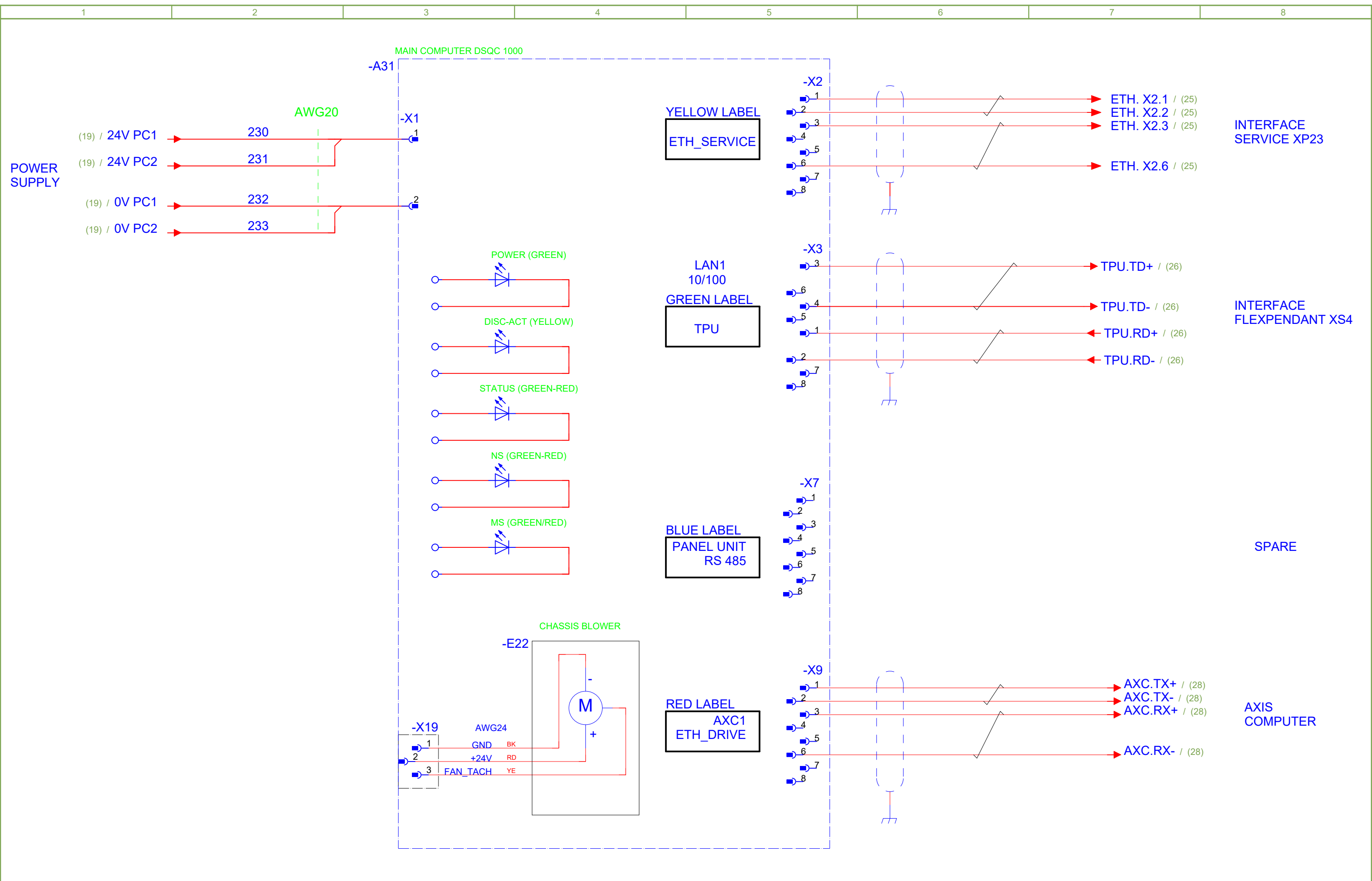
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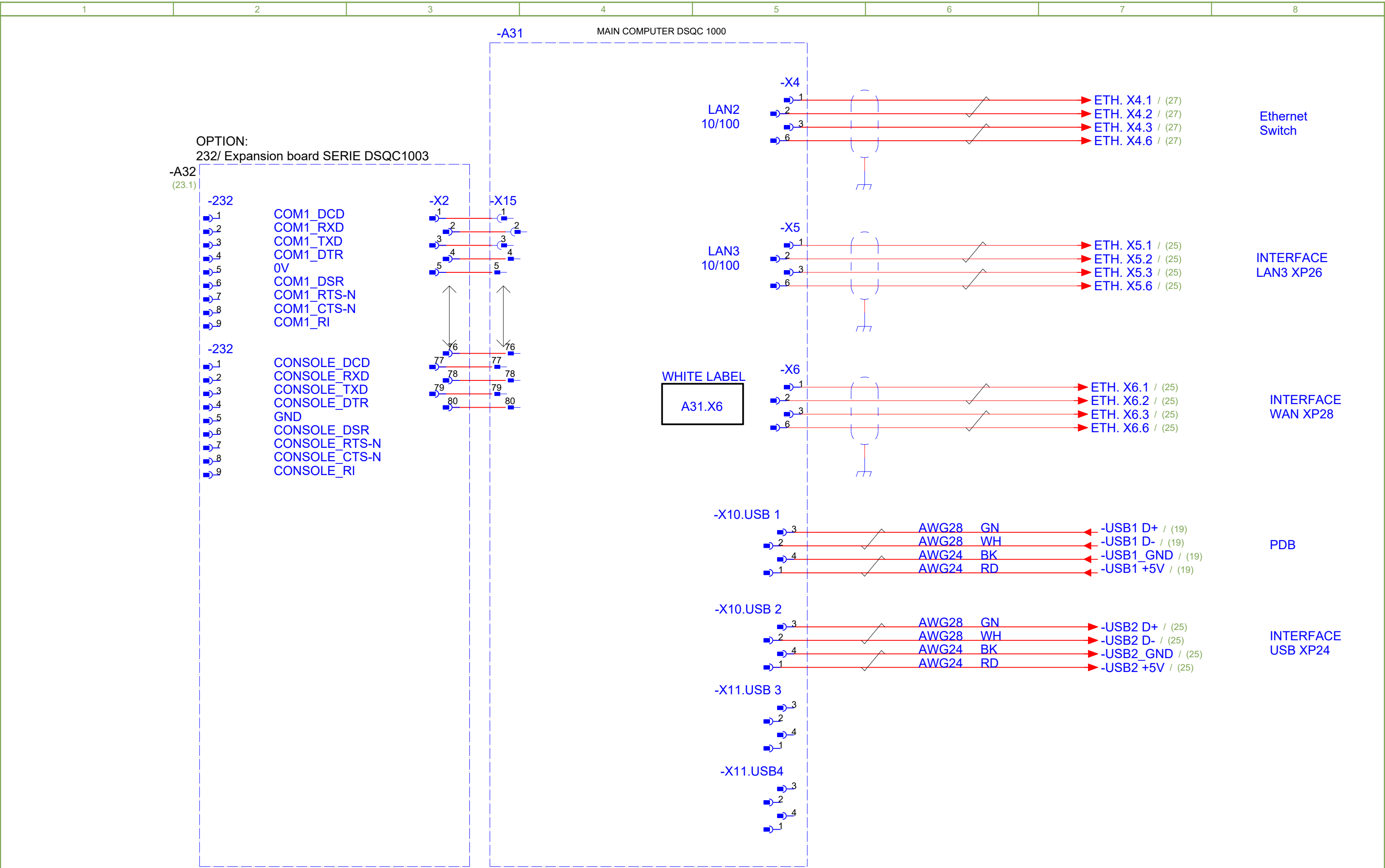
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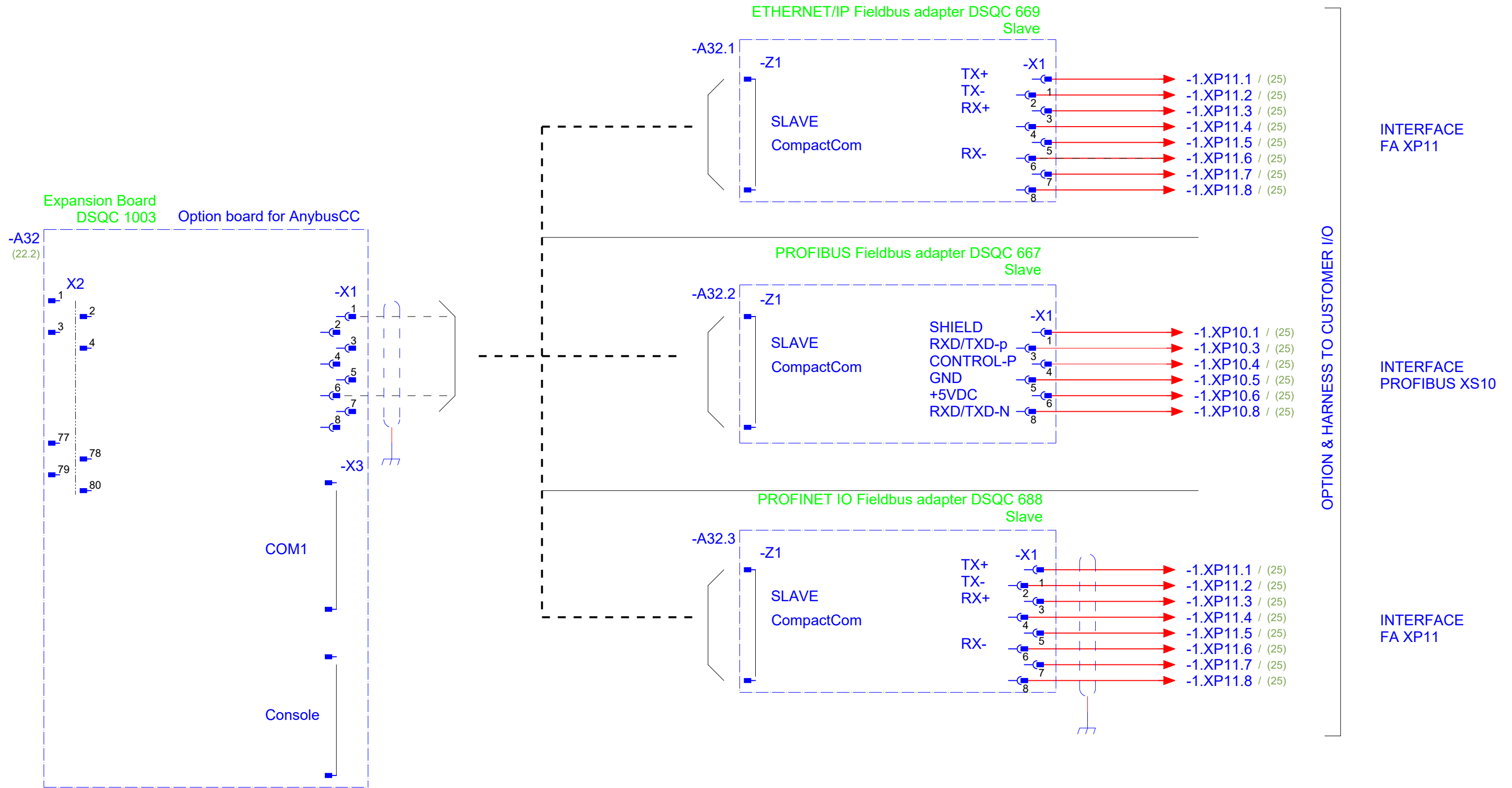


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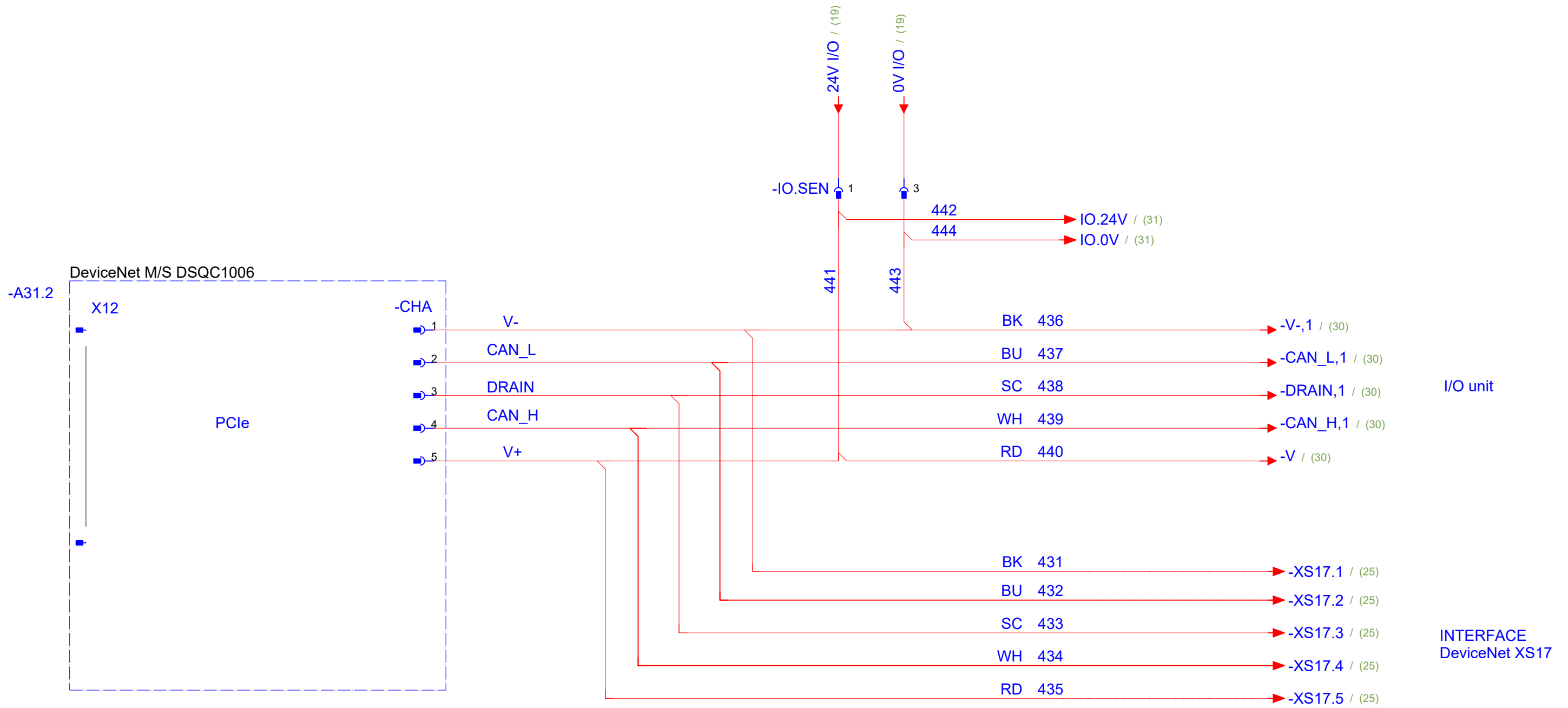
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 FIELDBUS ADAPTER A32:  
 ETHERNET/IP, PROFIBUS and PROFINET

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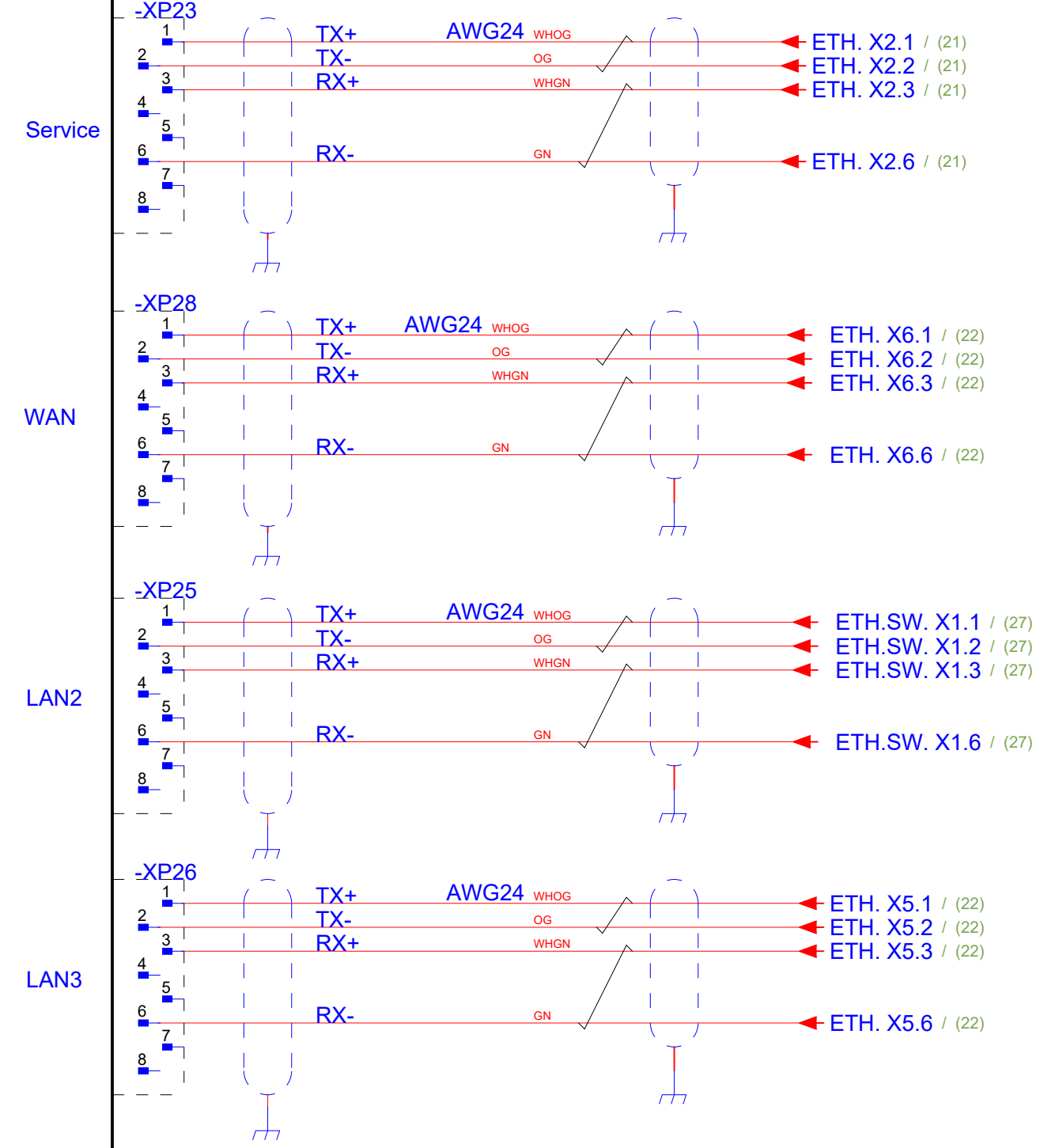
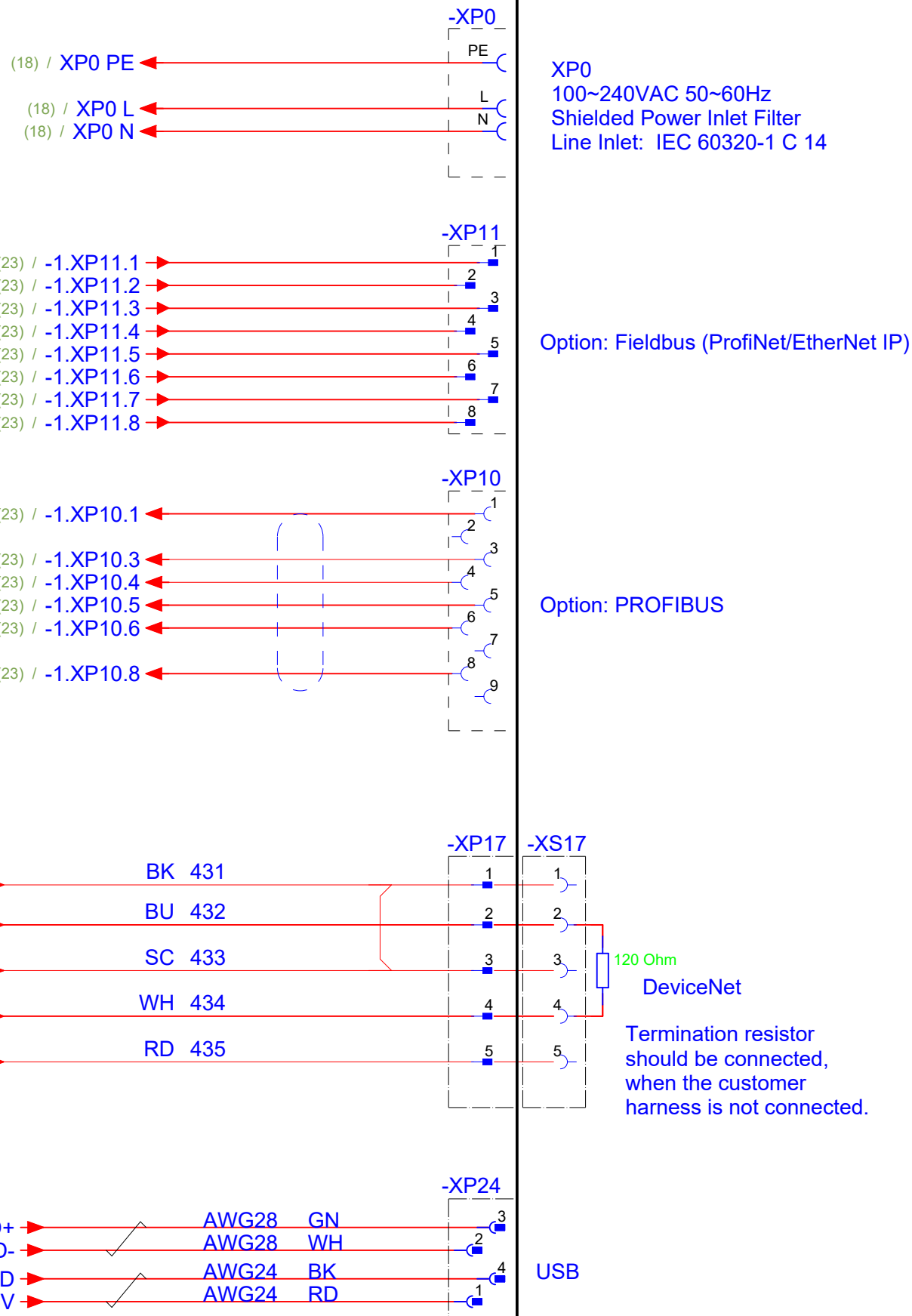
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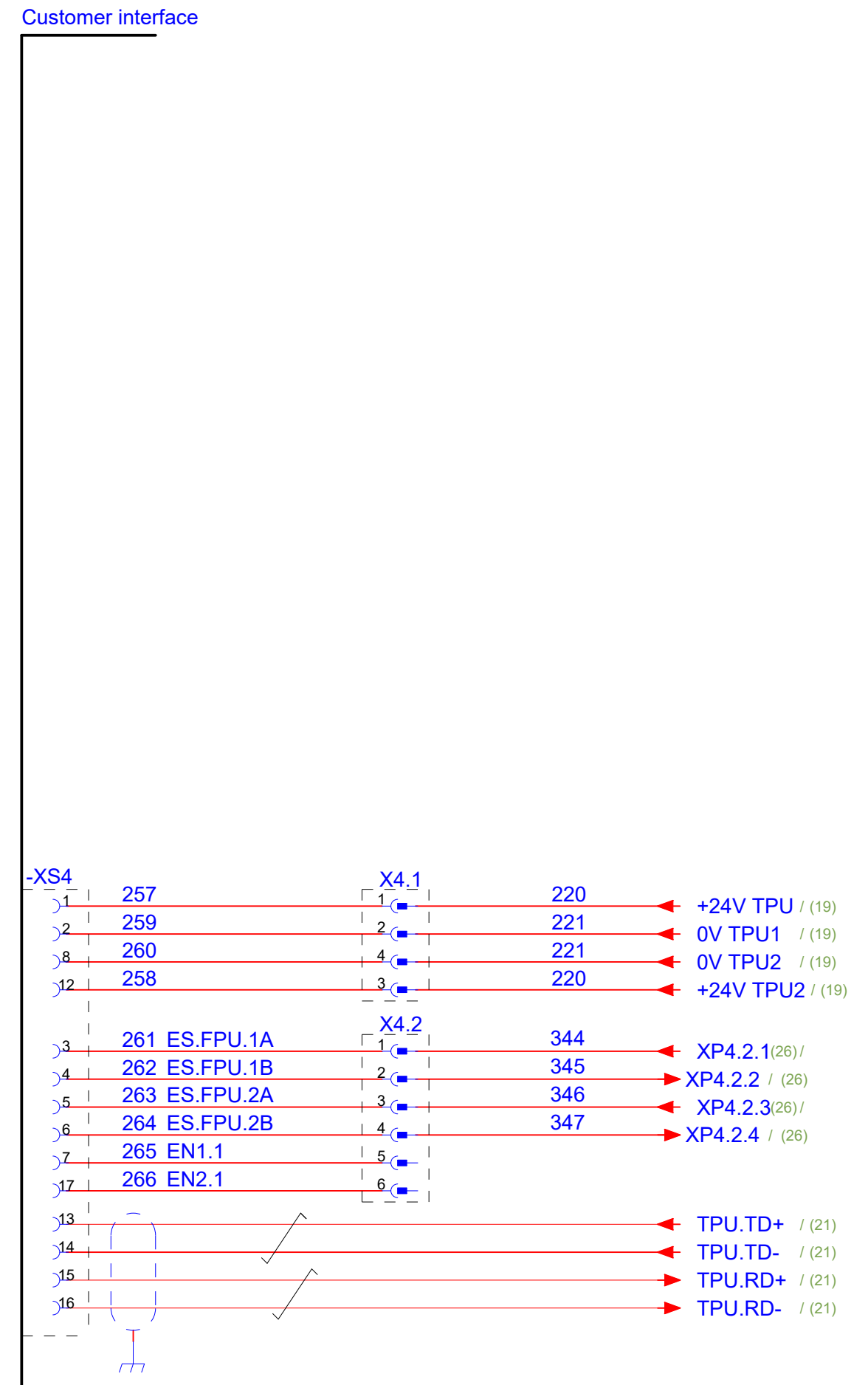
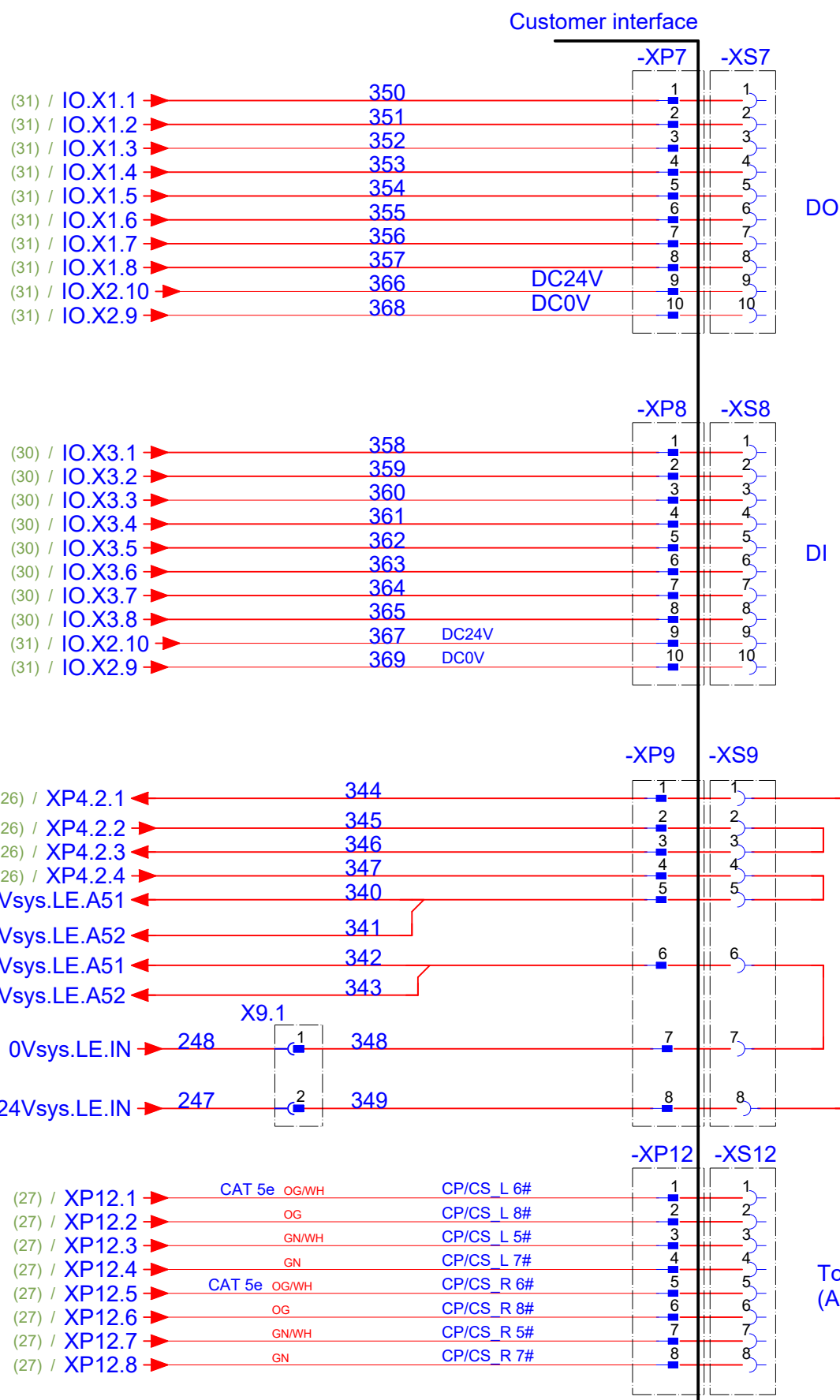
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Customer interface

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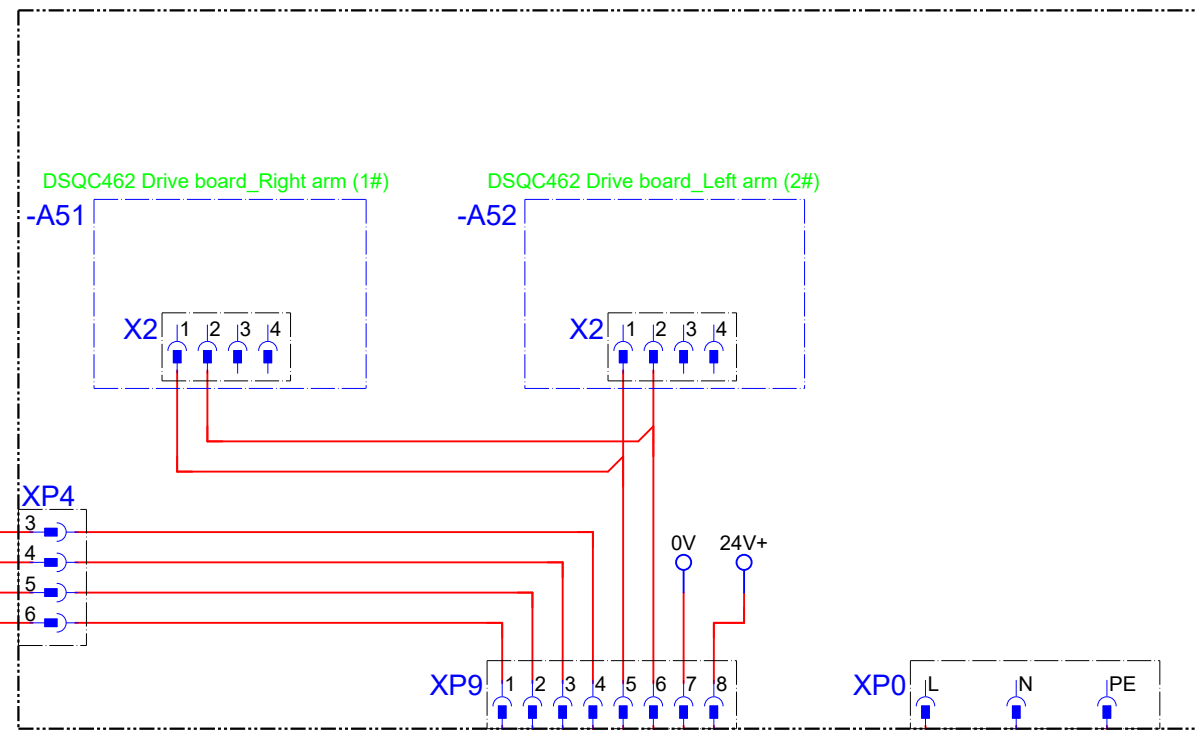
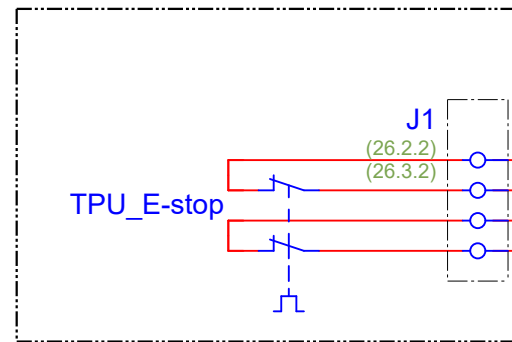
**ABB** Lab/Office: IRB 14000 Customer interface

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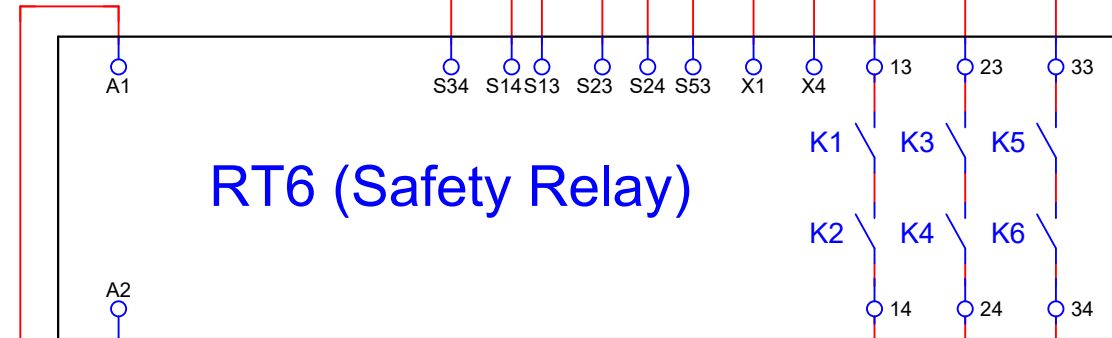
# IRB14000 Controller

## FlexPendant

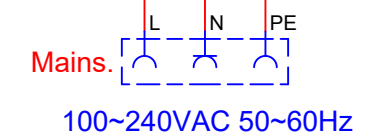


Note1)

Protective stop

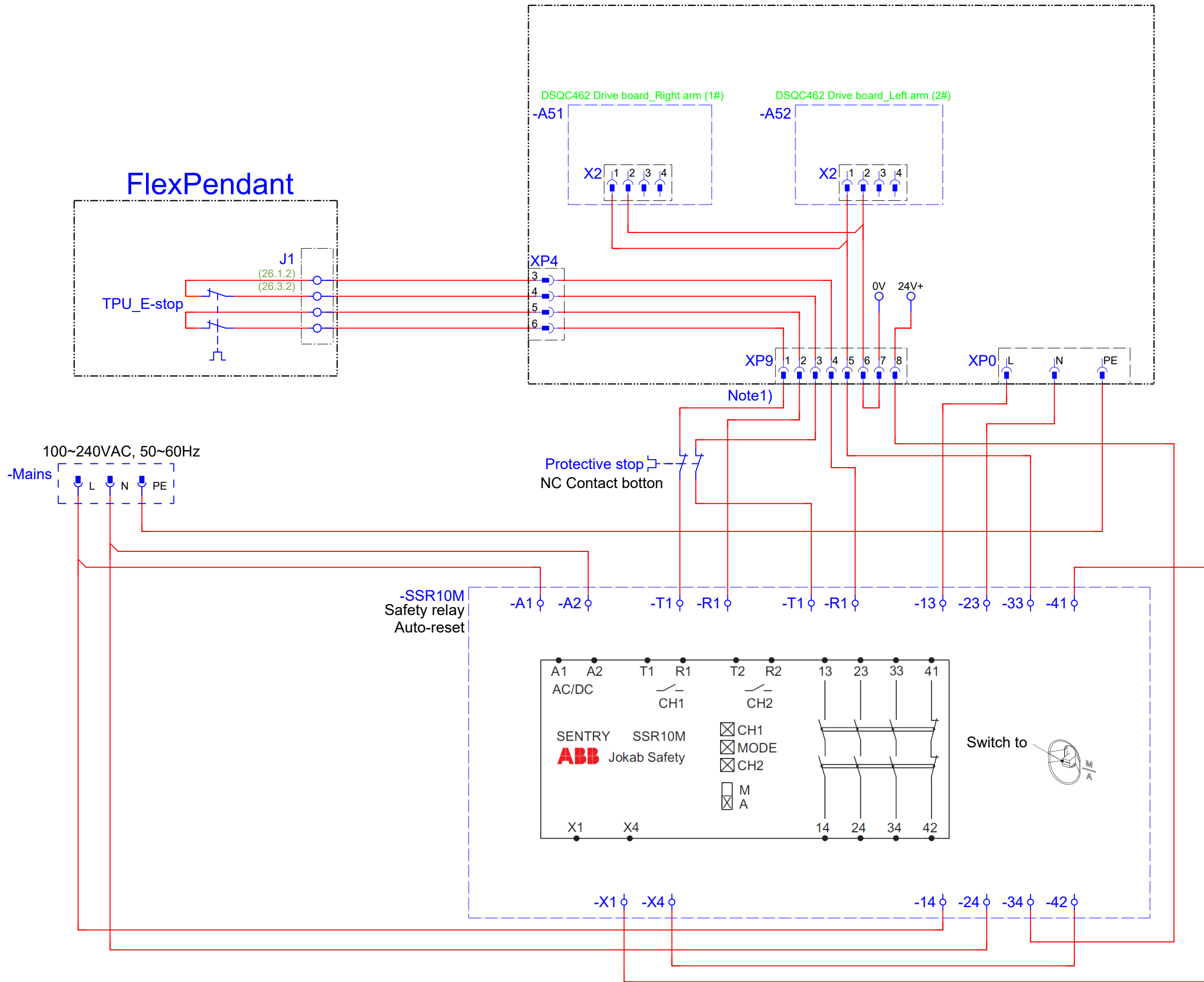


Note1  
Jumper cable need be removed if the external safety relay is connected.



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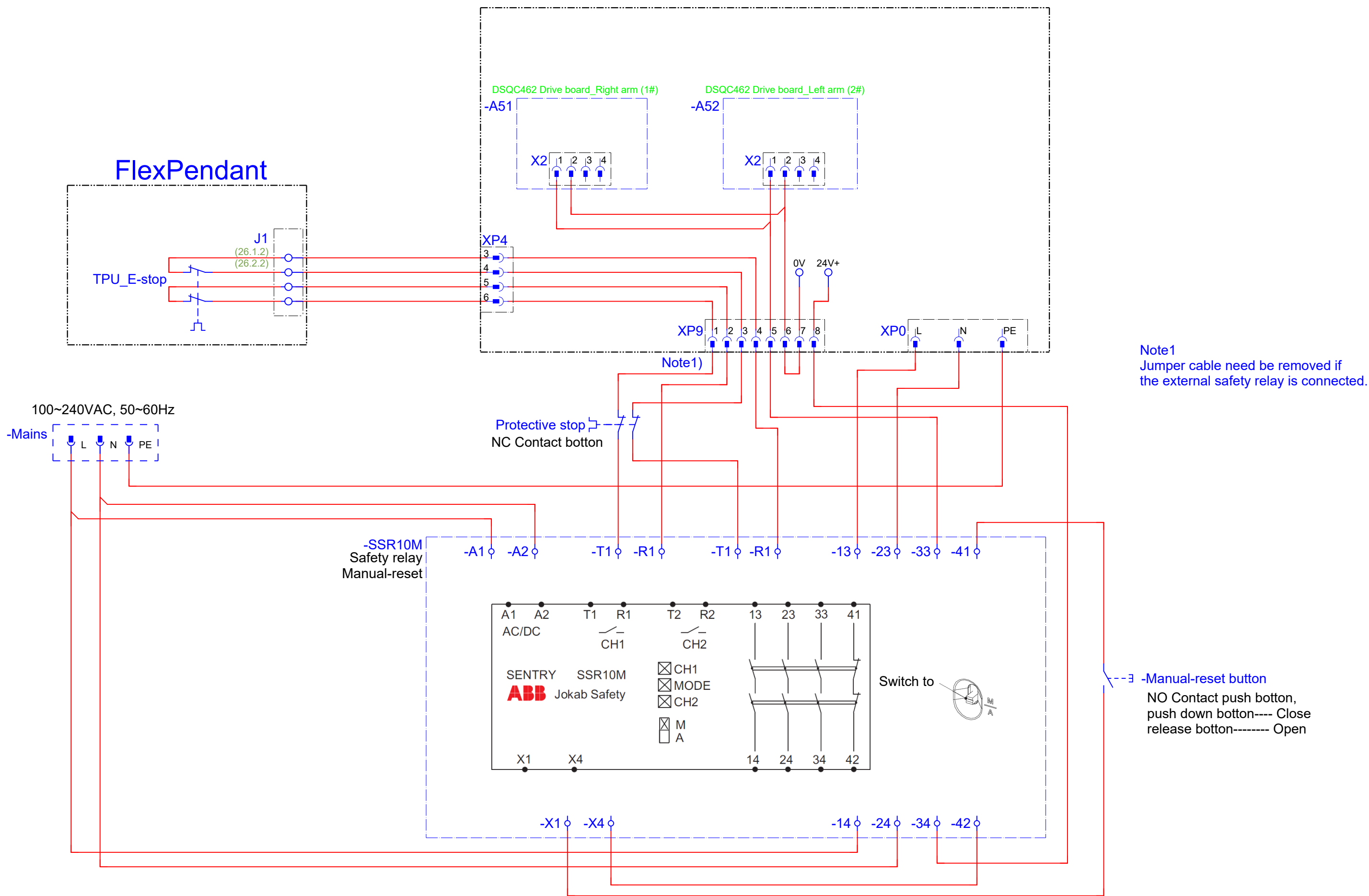
# IRB14000 Controller



Note1  
Jumper cable need be removed if the external safety relay is connected.

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# IRB14000 Controller

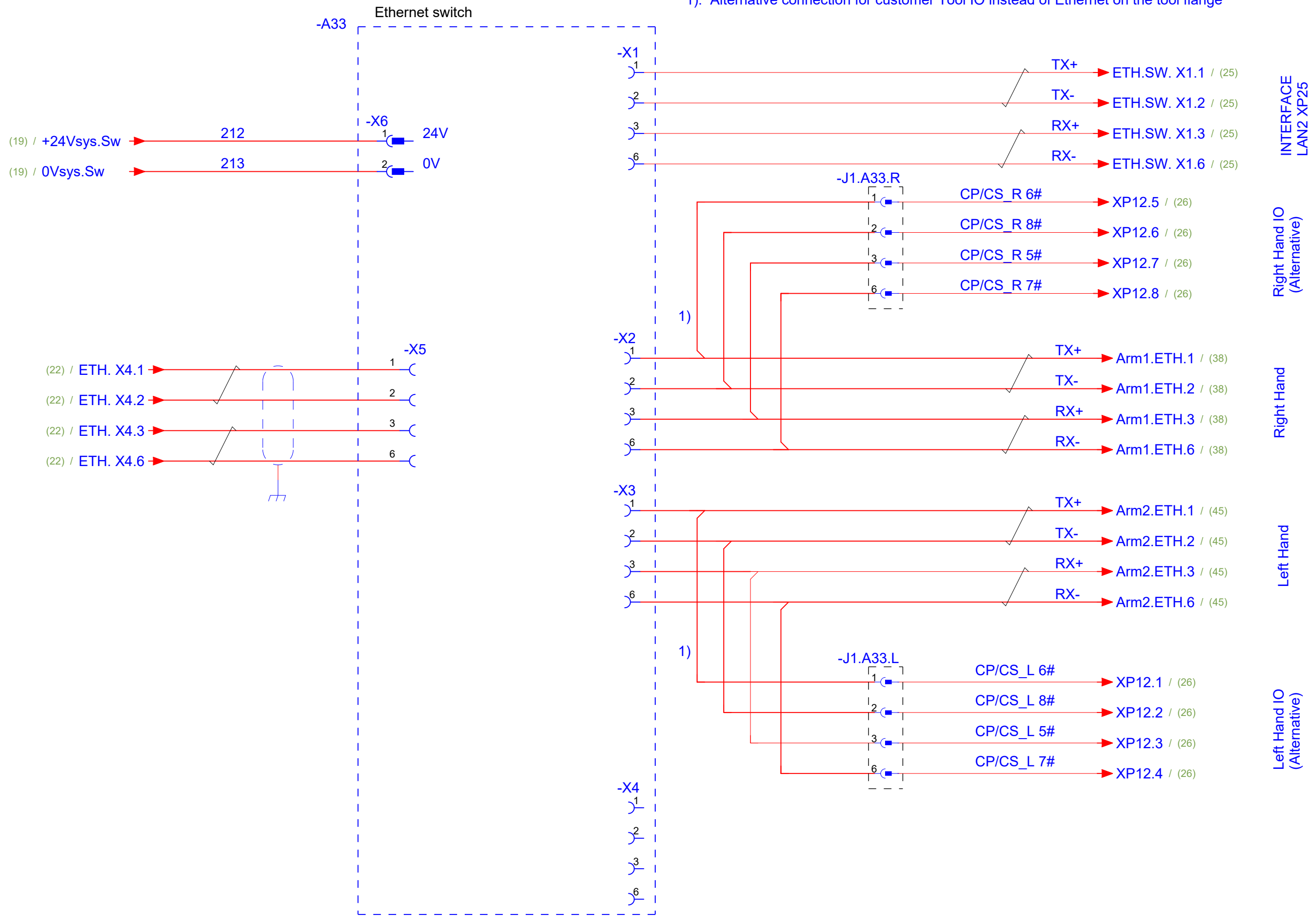


Note1  
Jumper cable need be removed if the external safety relay is connected.

---3 -Manual-reset button  
NO Contact push button, push down button---- Close  
release button----- Open

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Main Computer  
LAN2



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IRB 14000  
Ethernet switch

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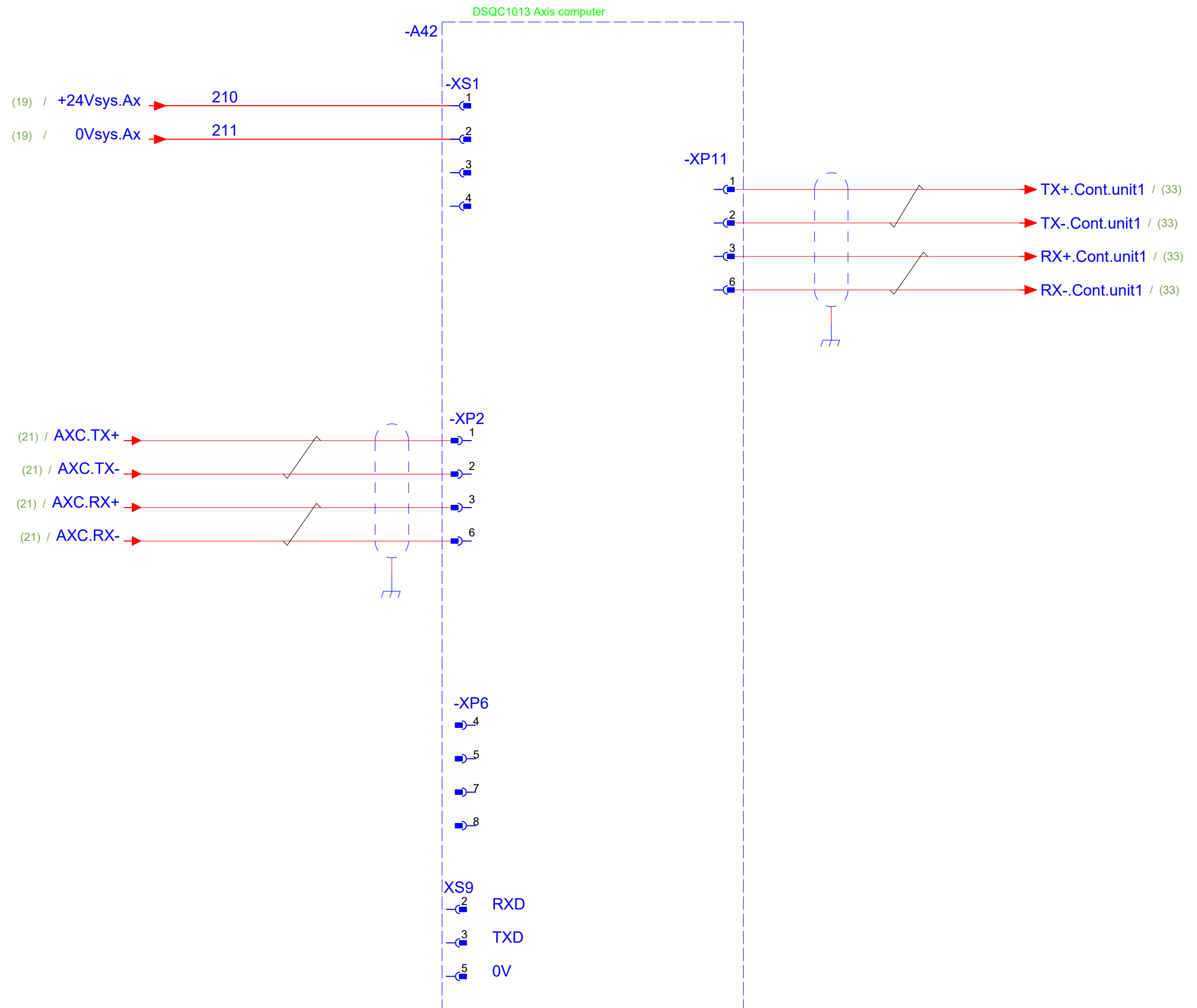
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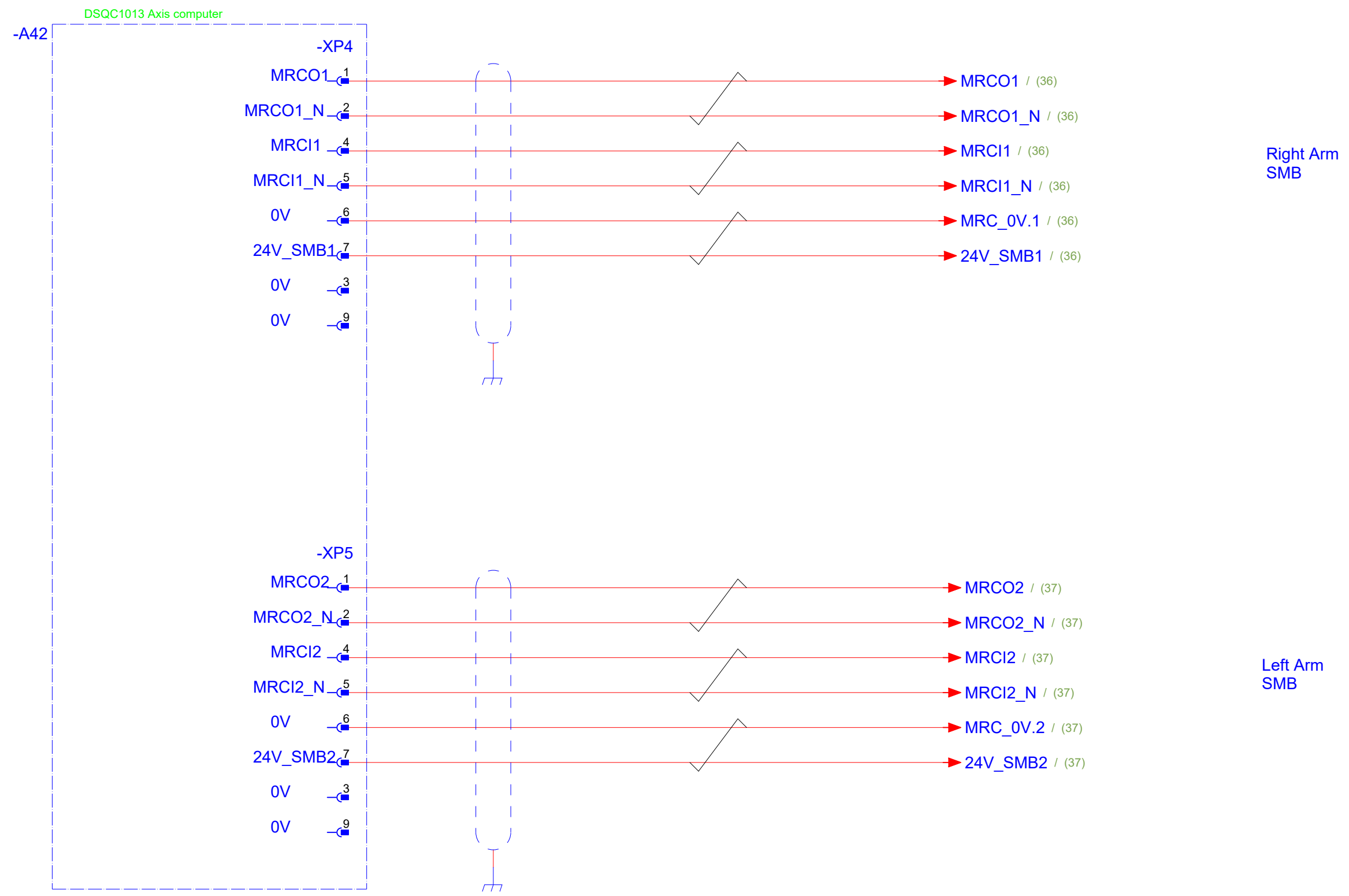
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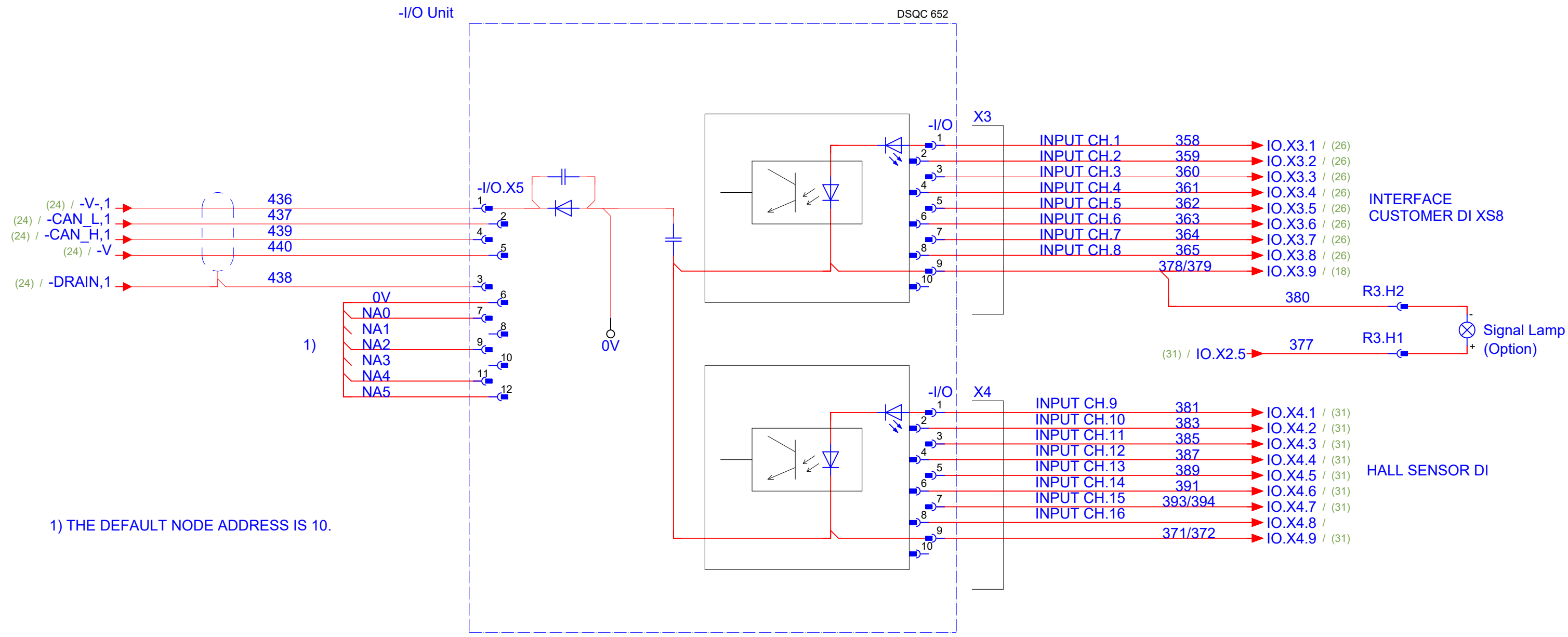
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**ABB** Lab/Office: IRB 14000  
DSQC1013 Axis computer

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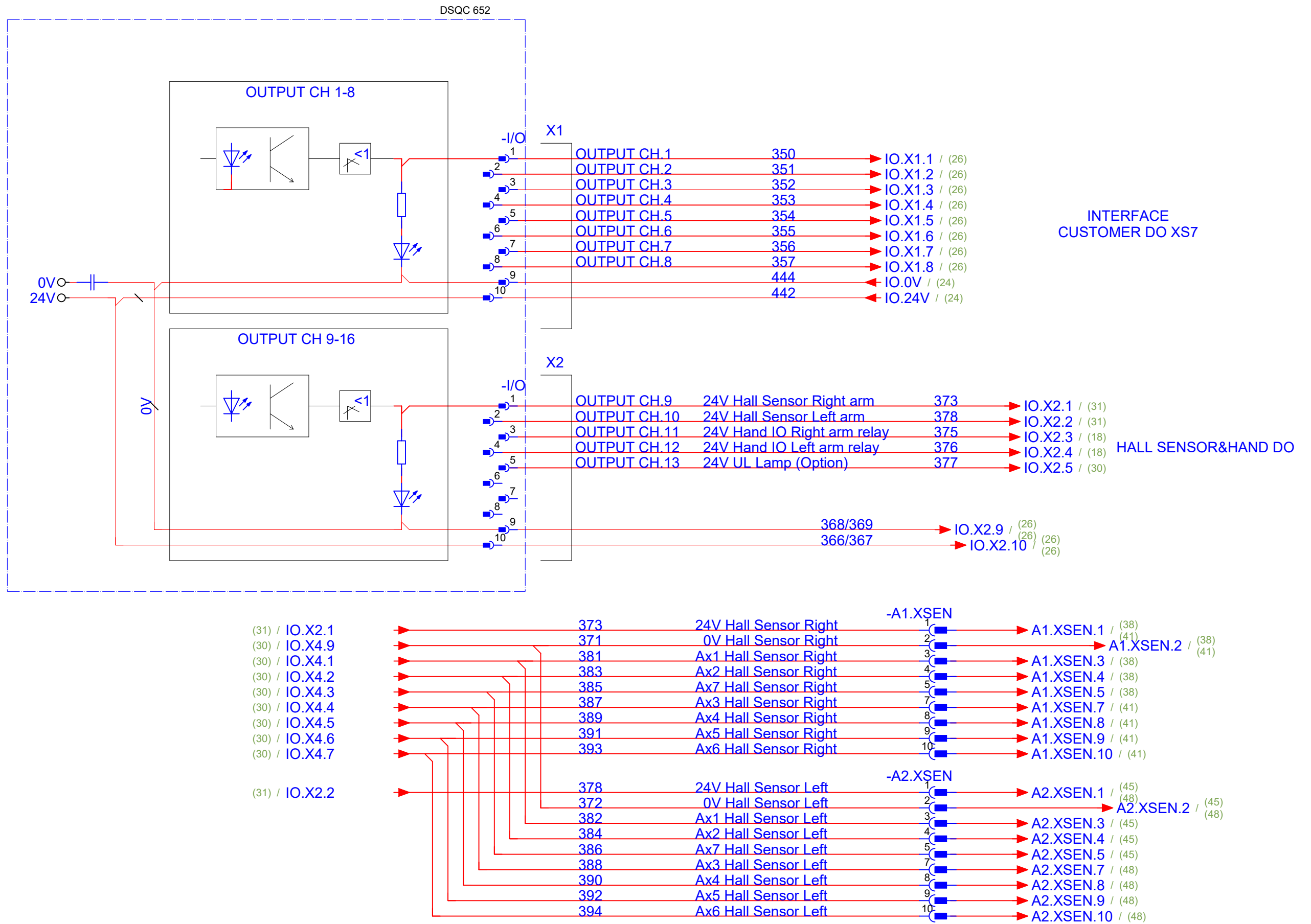


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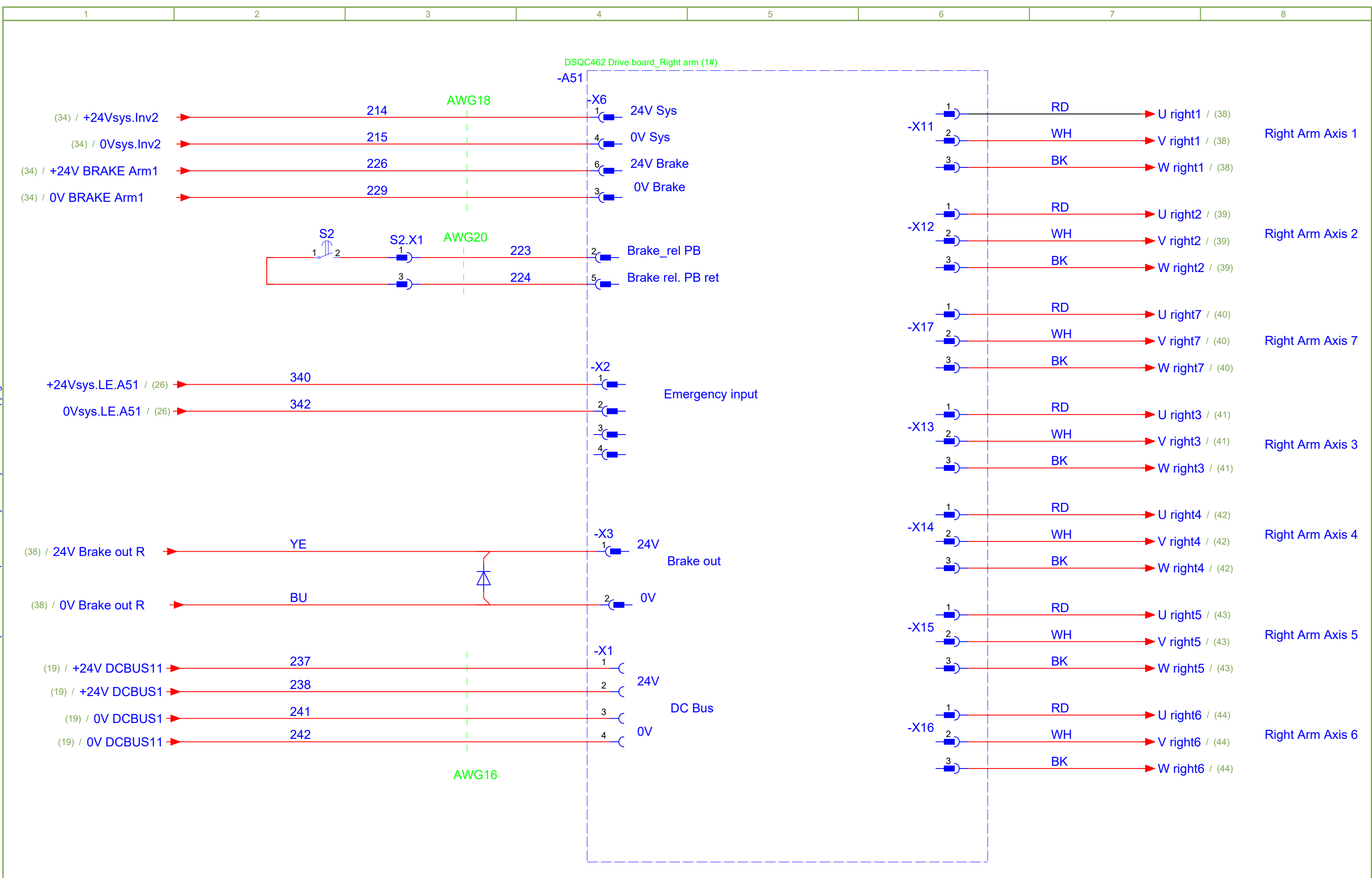
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-I/O Unit

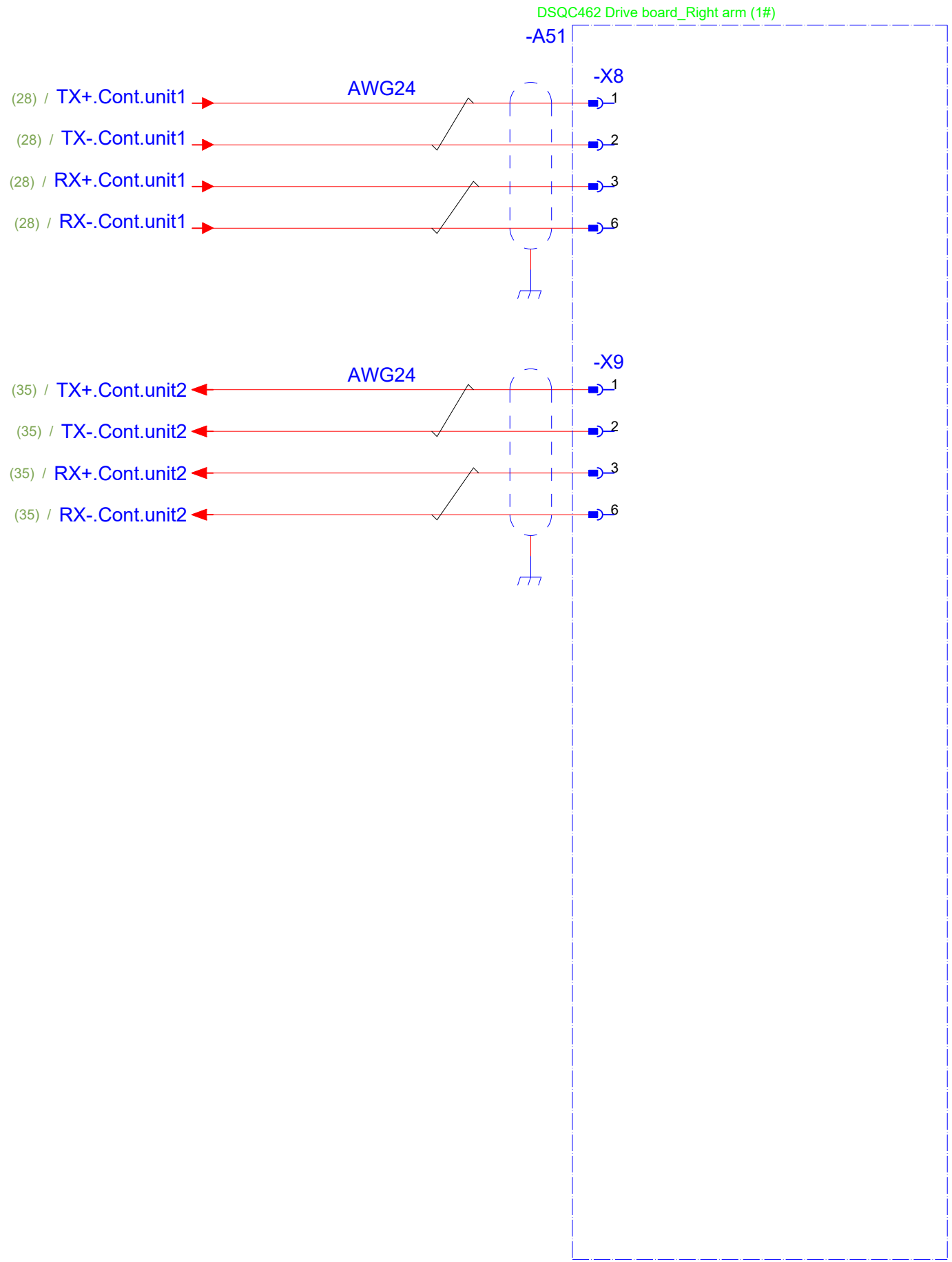


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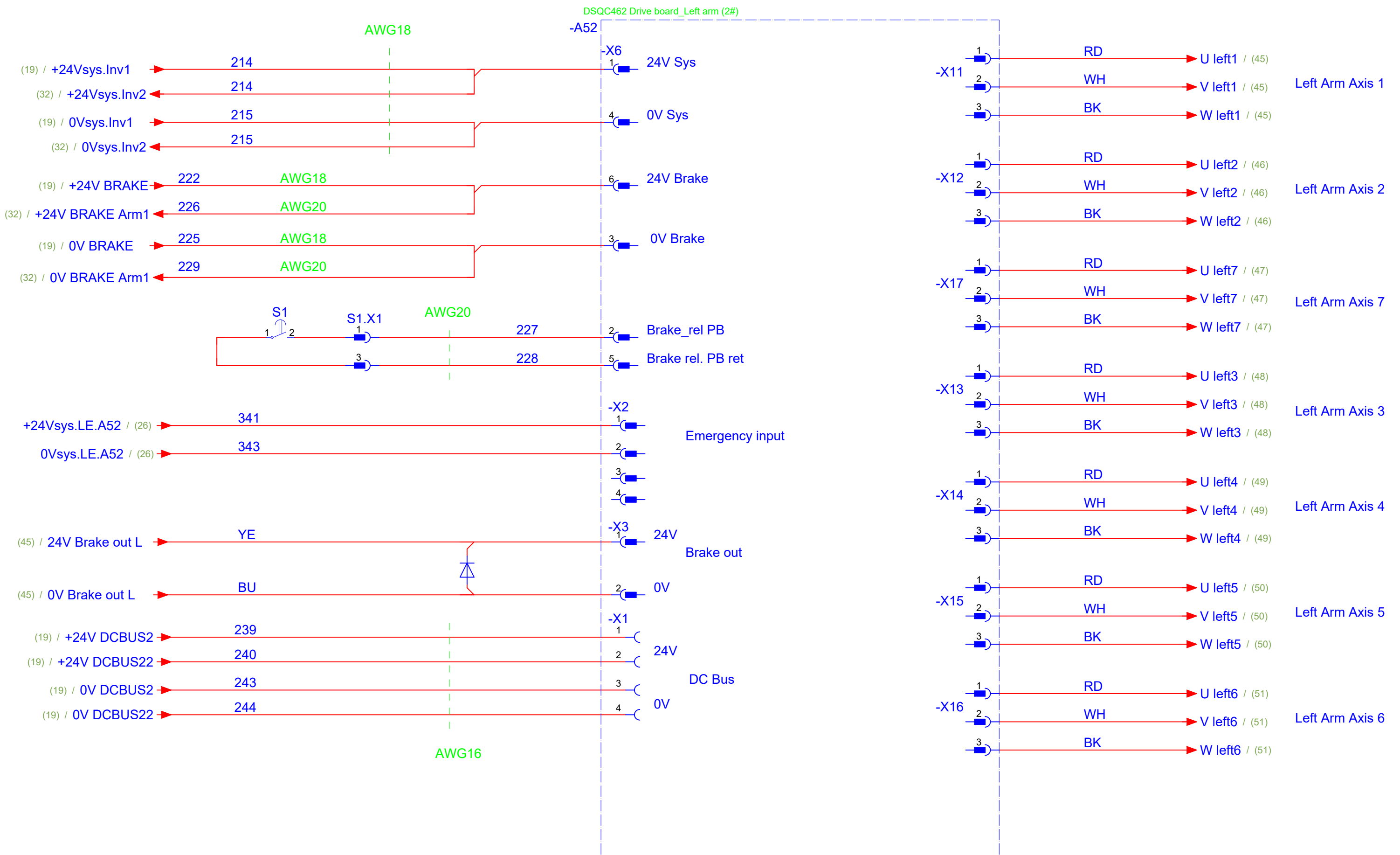
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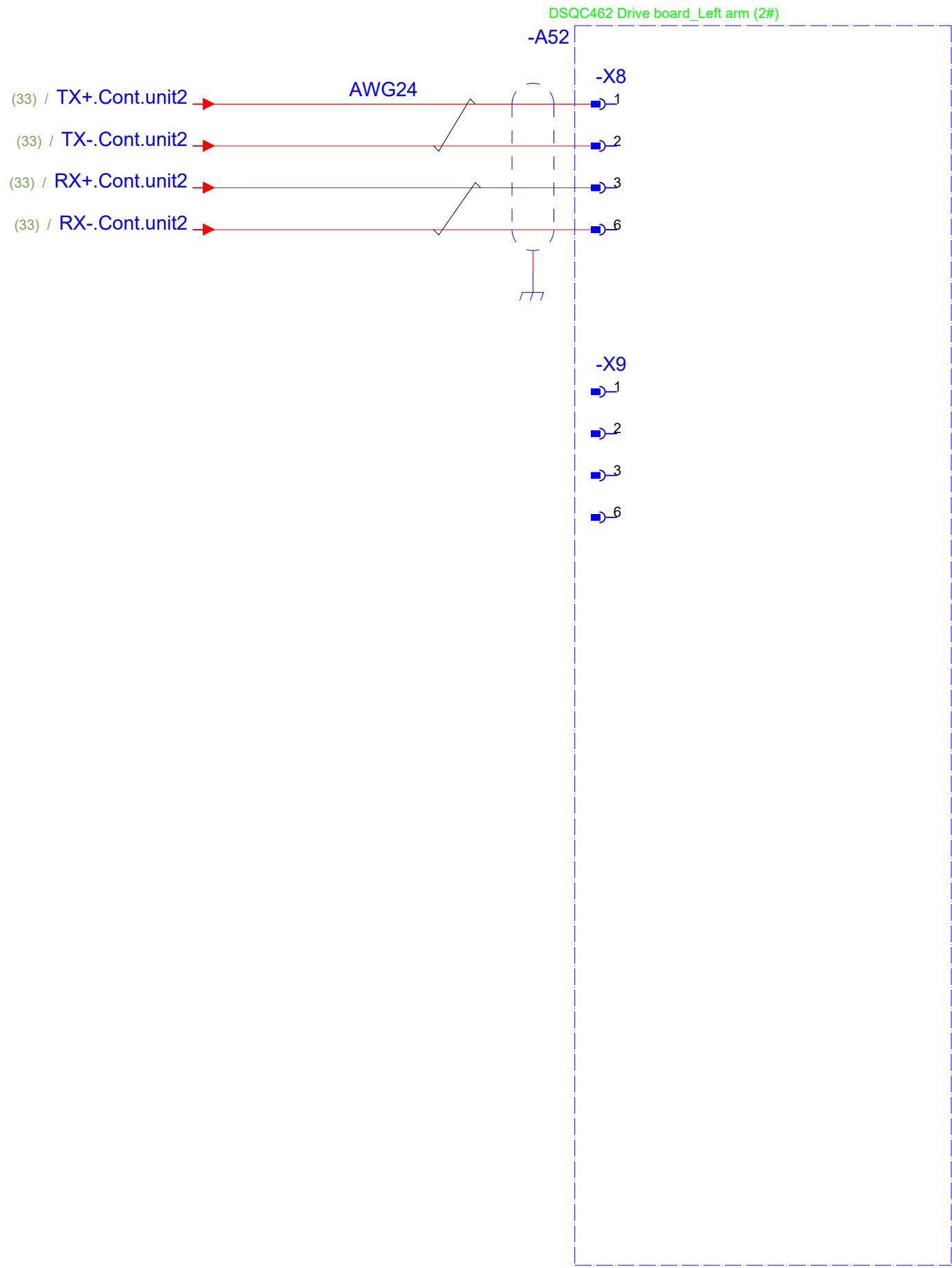
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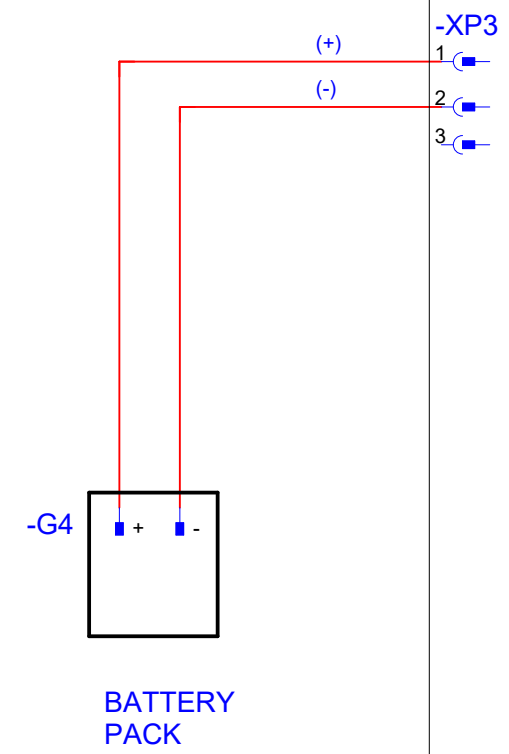
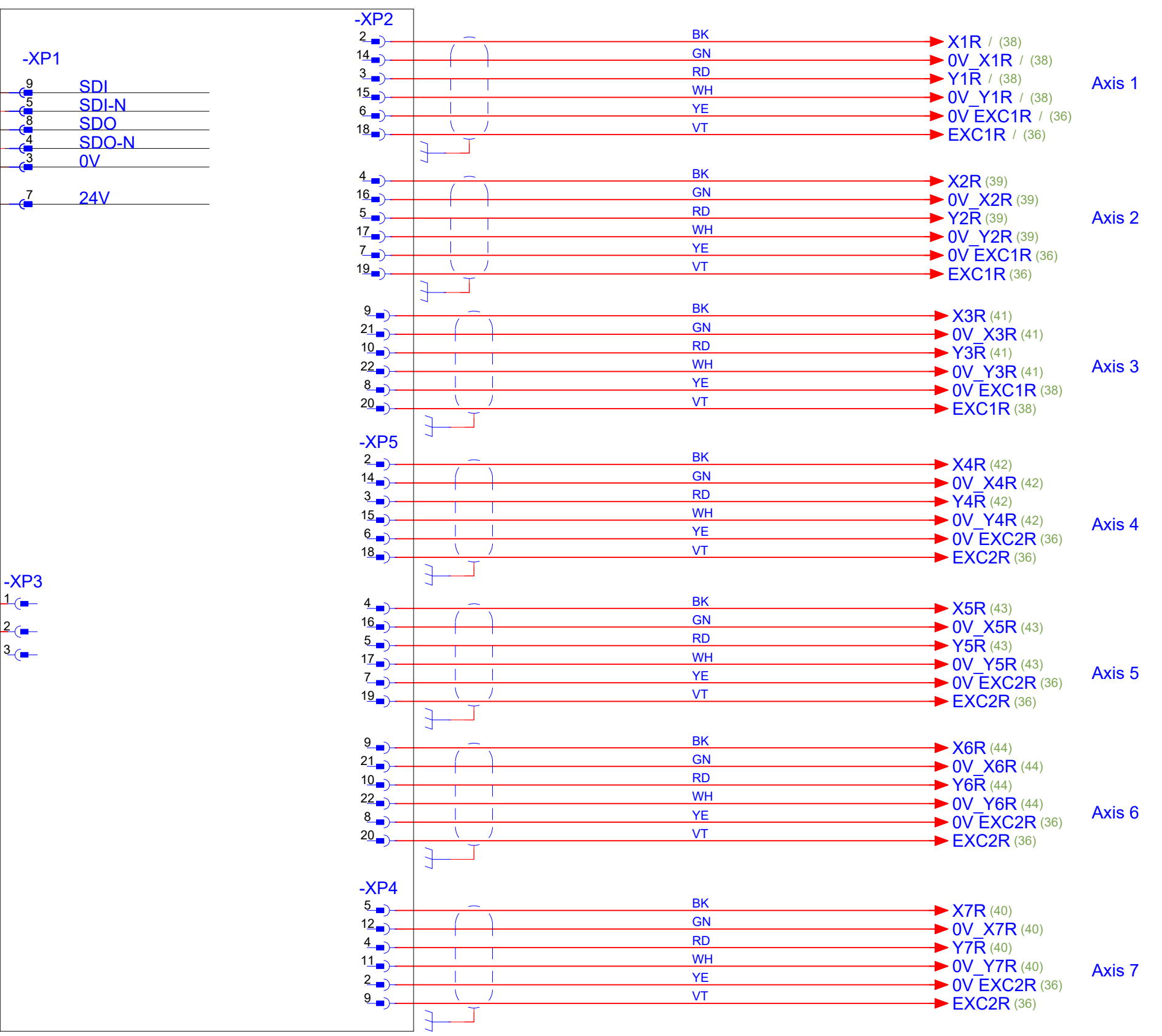


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DSQC462 Drive board left arm

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

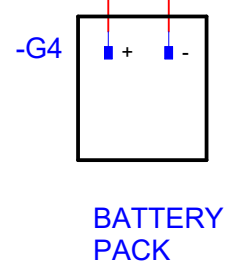
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GN

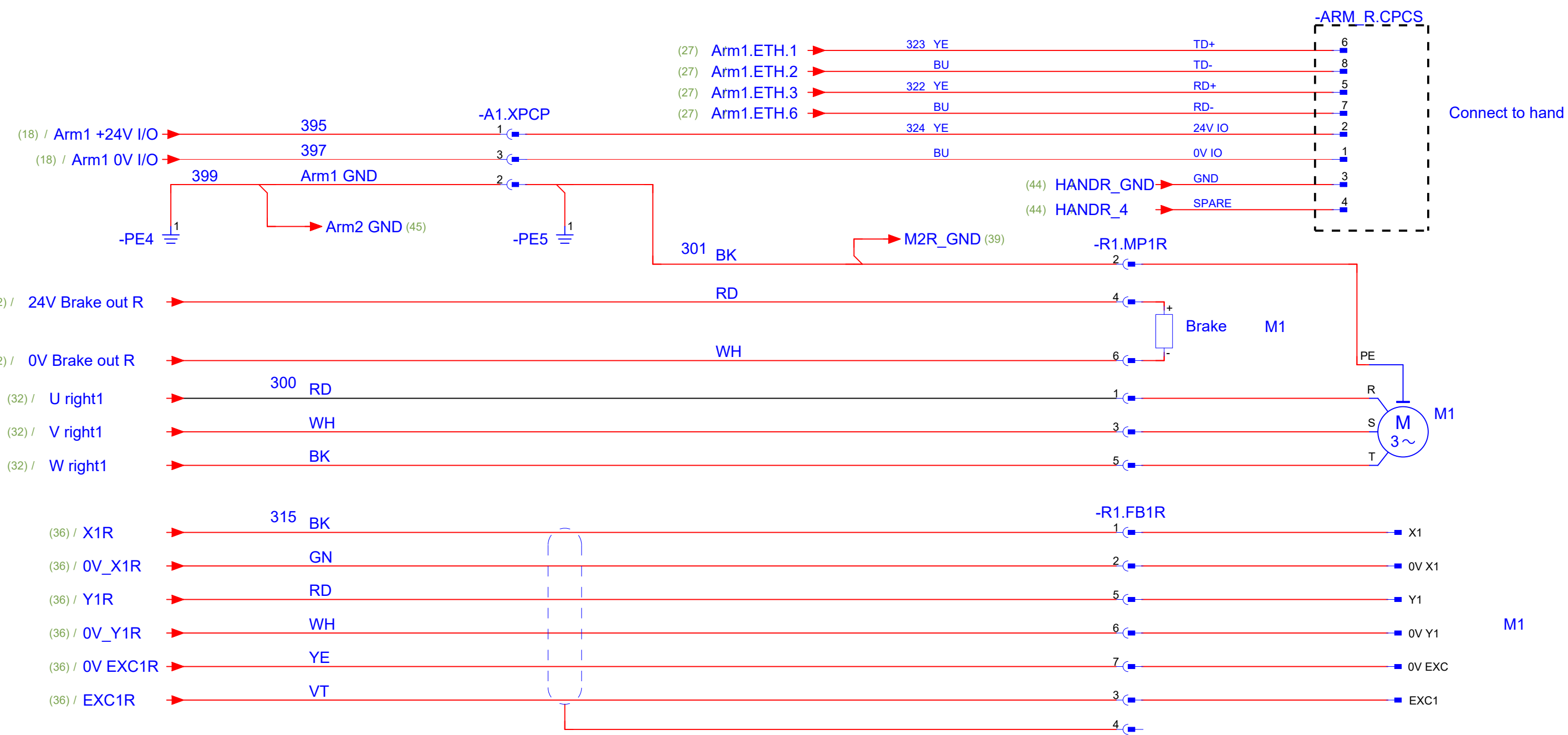
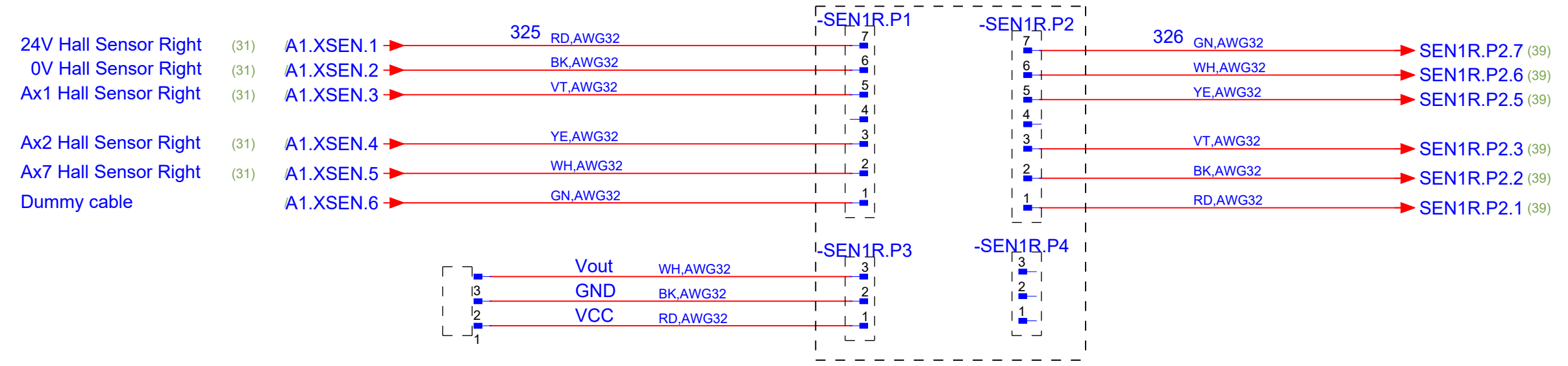
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 (29) / MRCI2  
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 (29) / 24V\_SMB2

A52.3 DSQC633D SMB\_Left arm(2#)

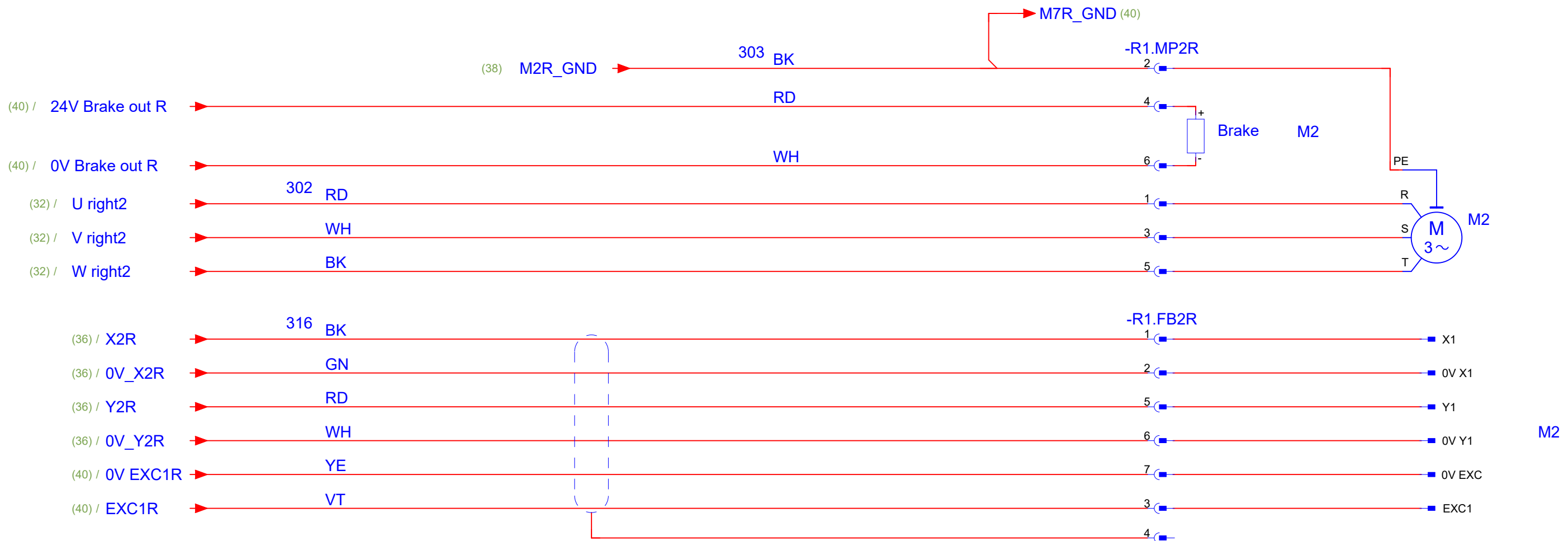
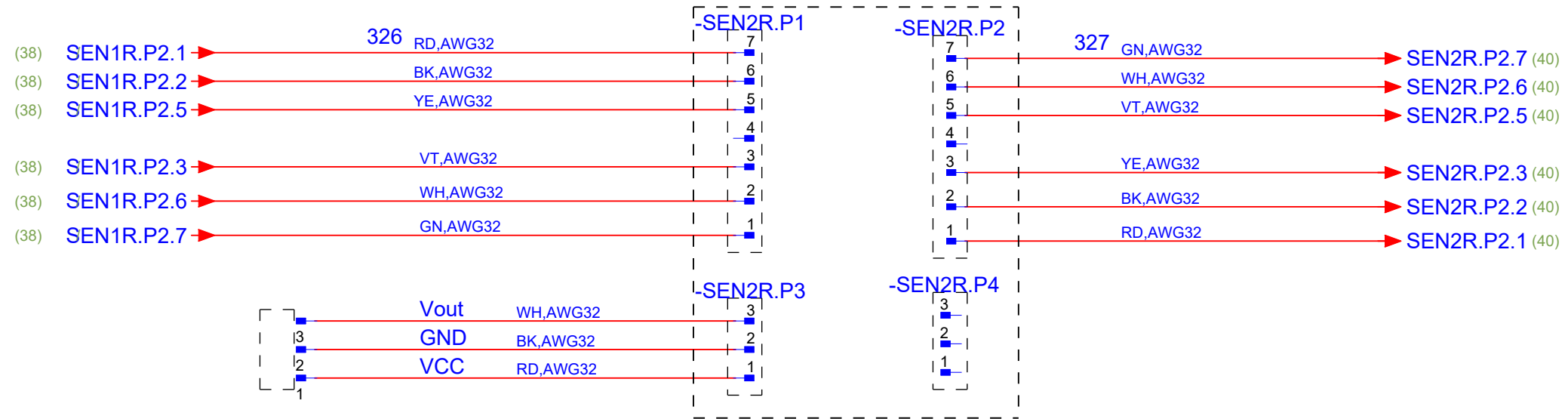


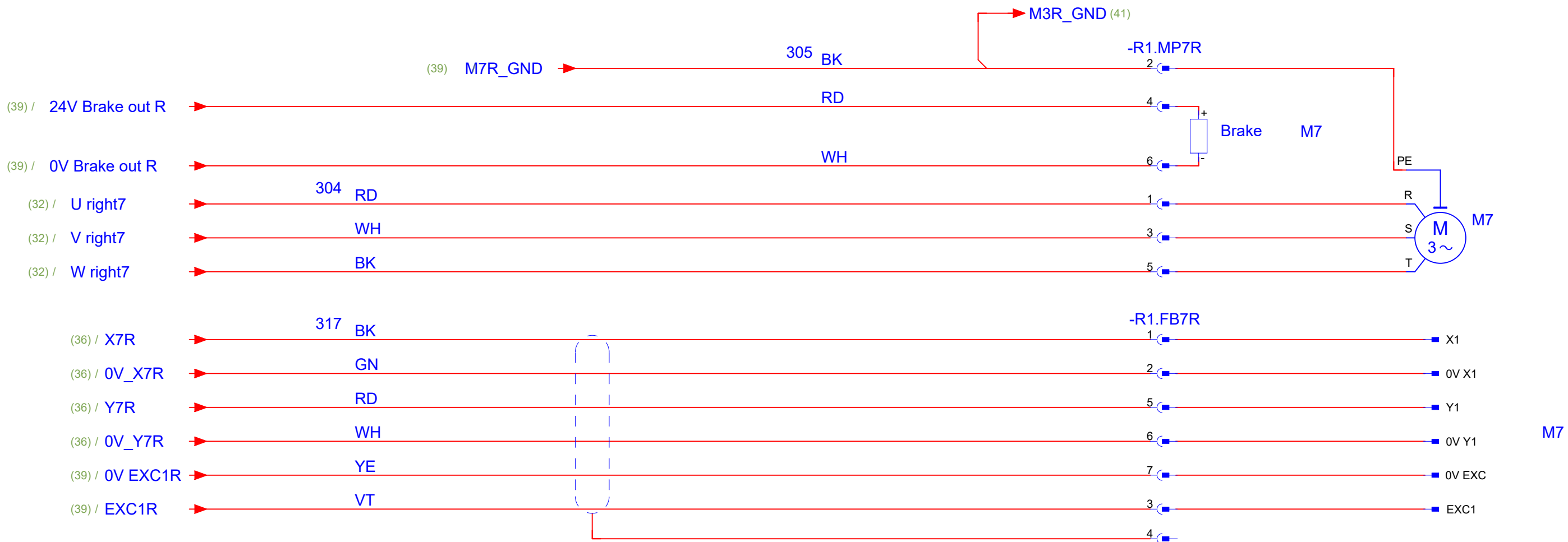
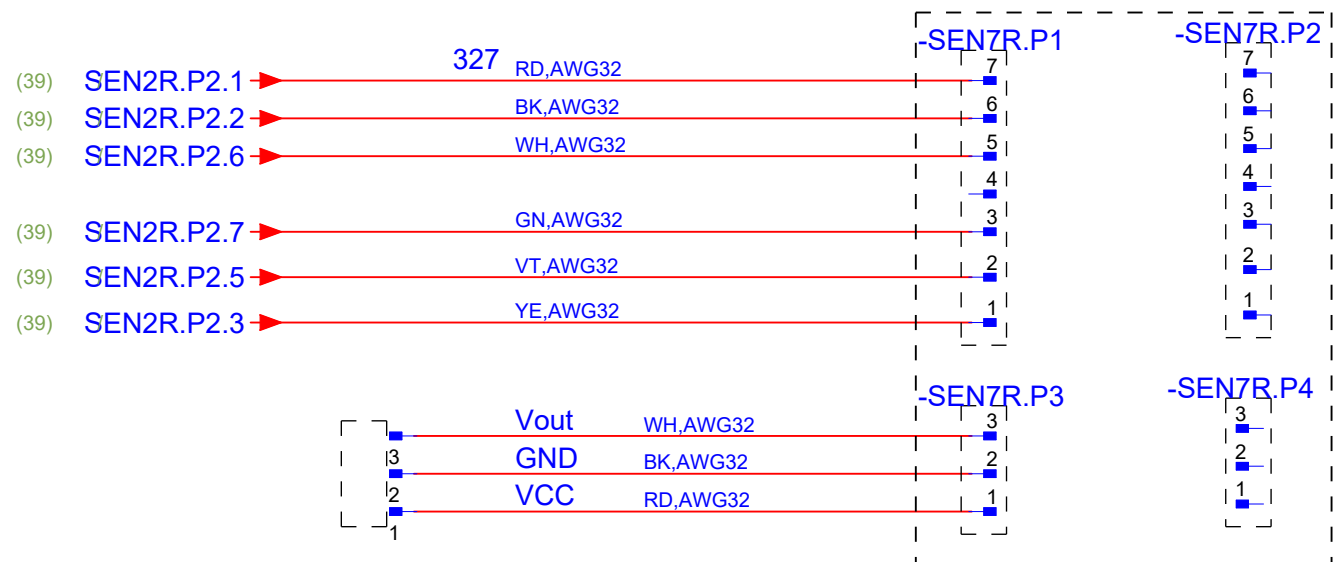
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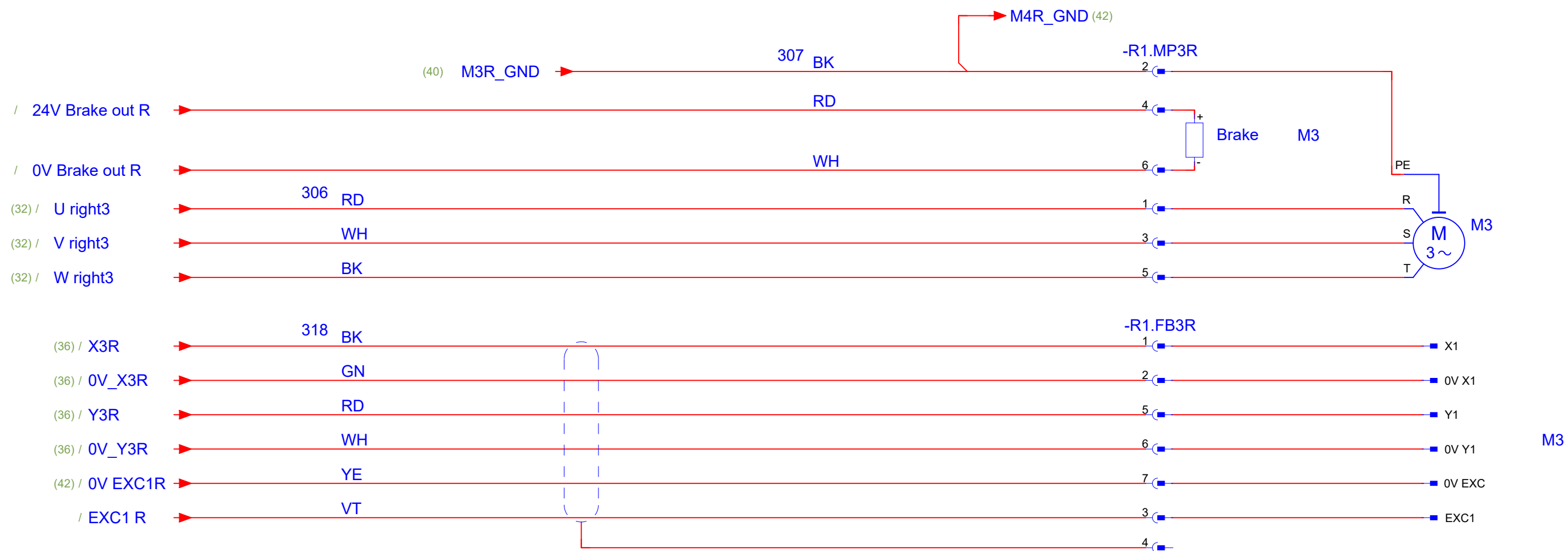
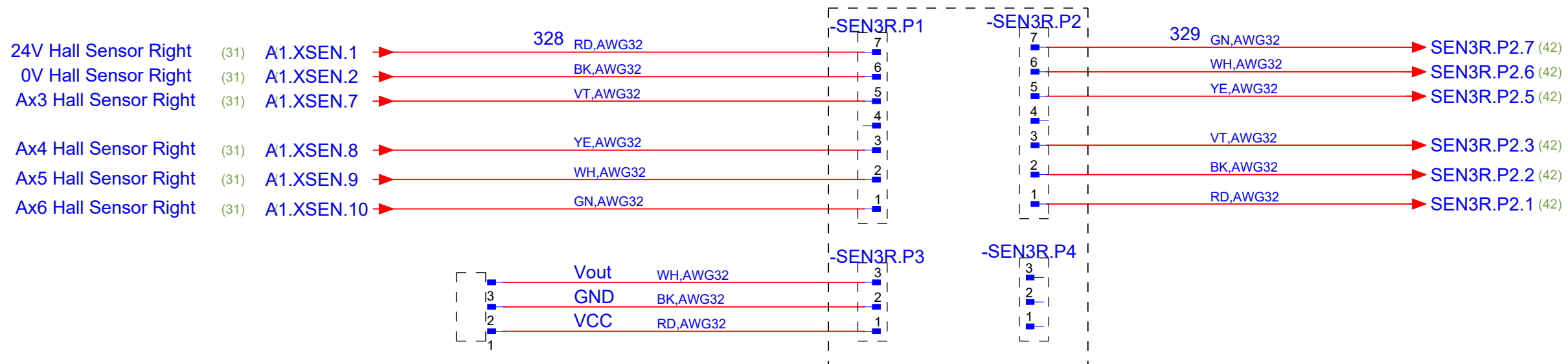


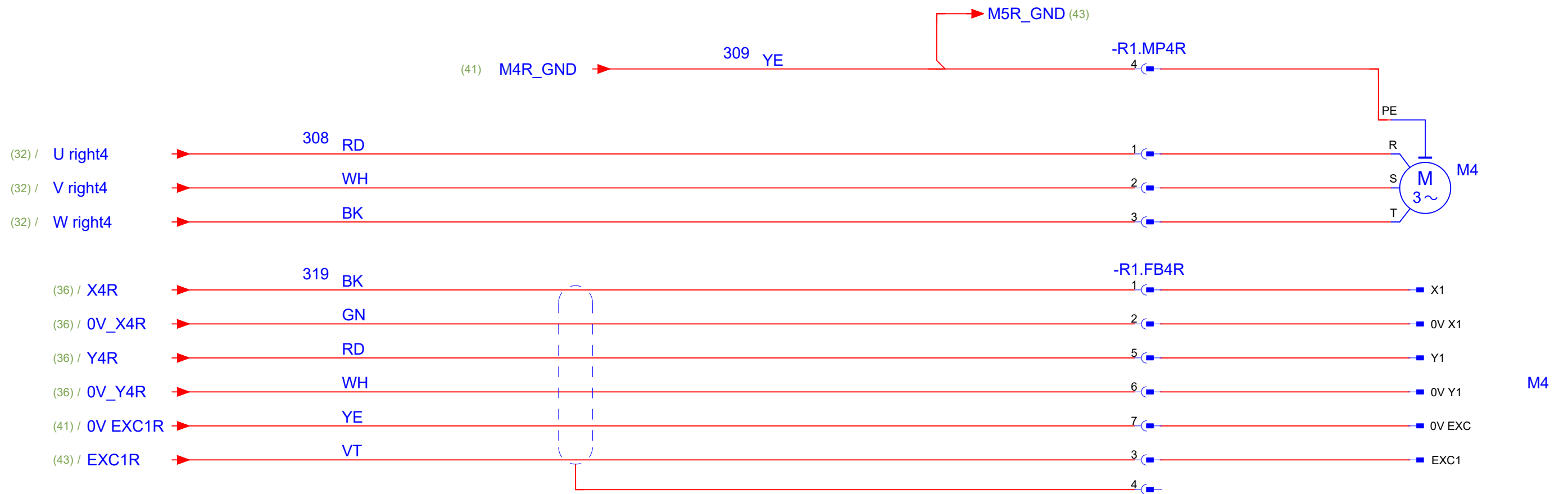
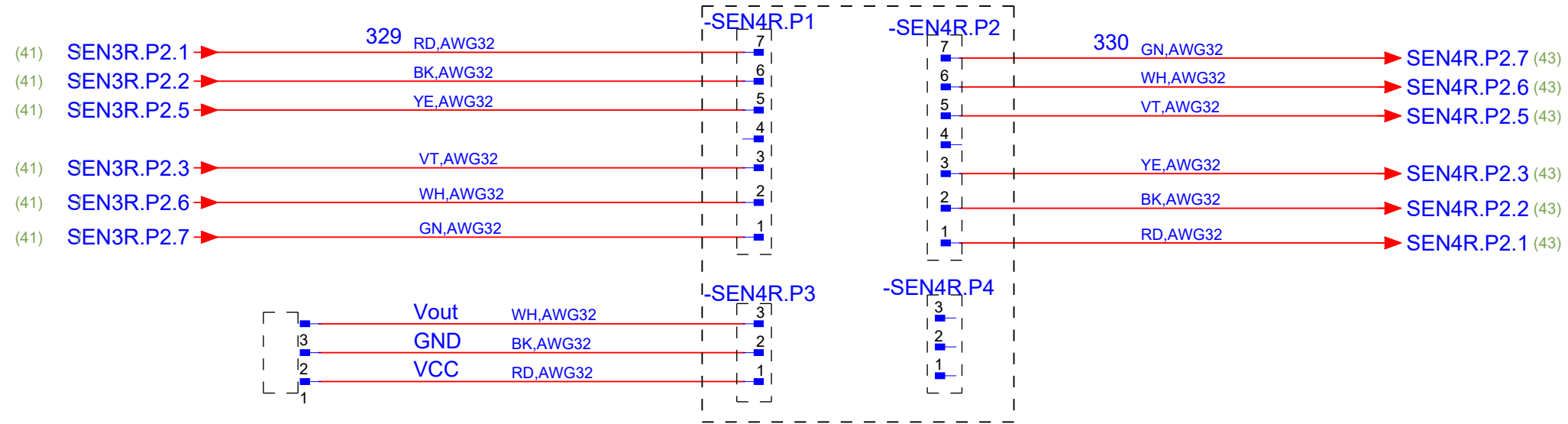
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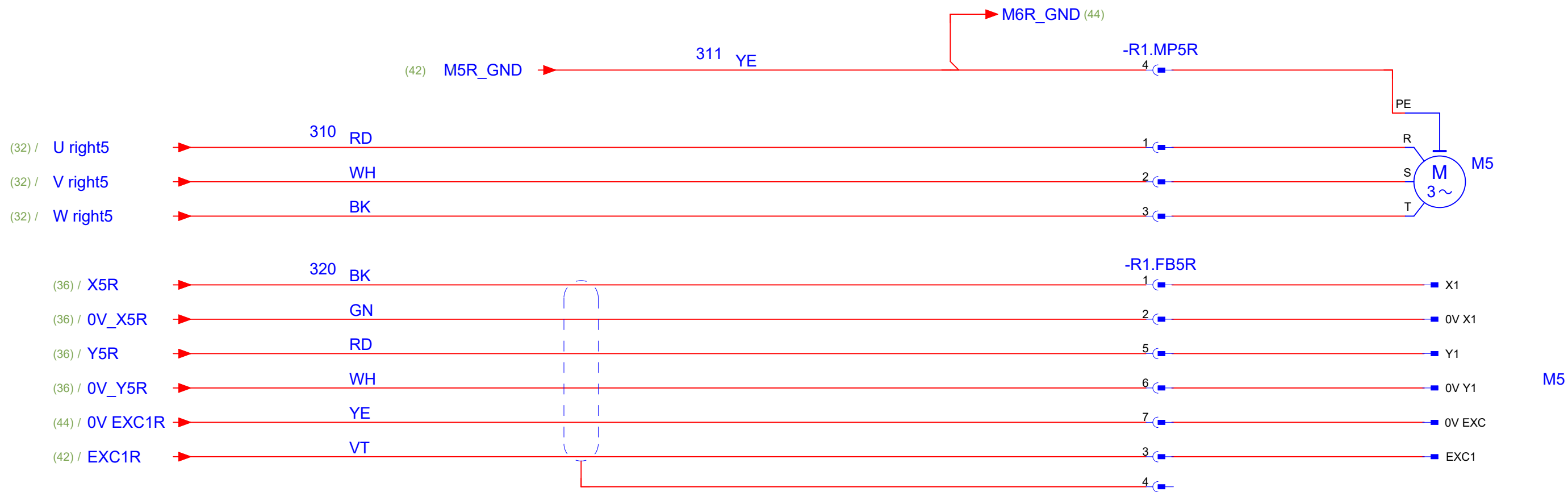
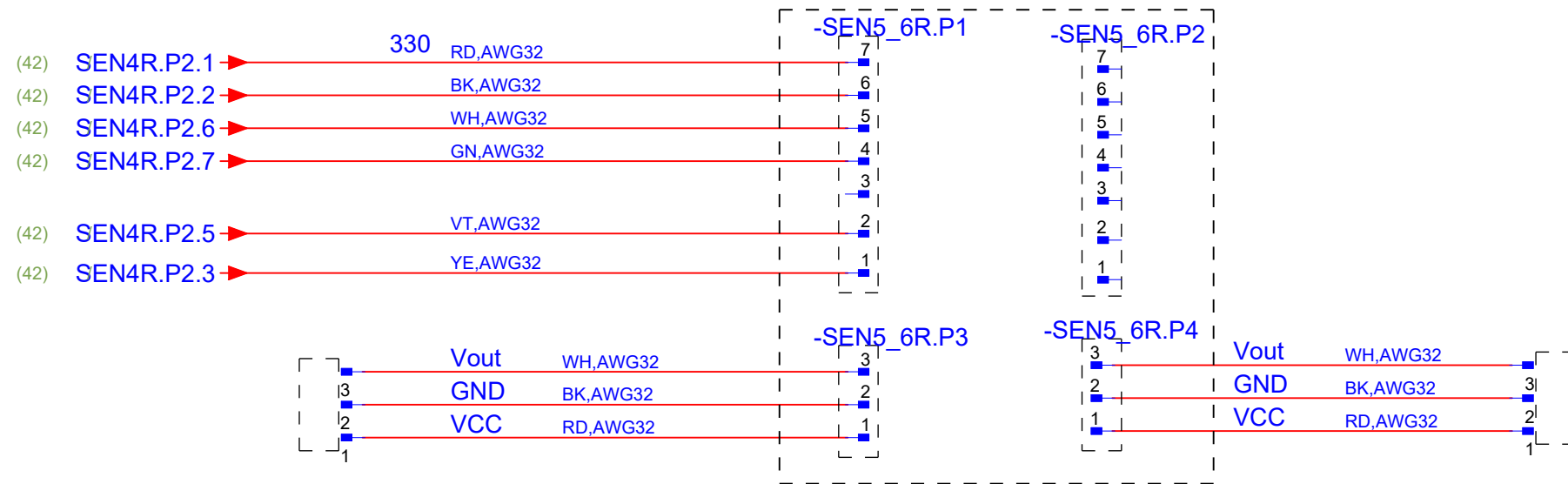


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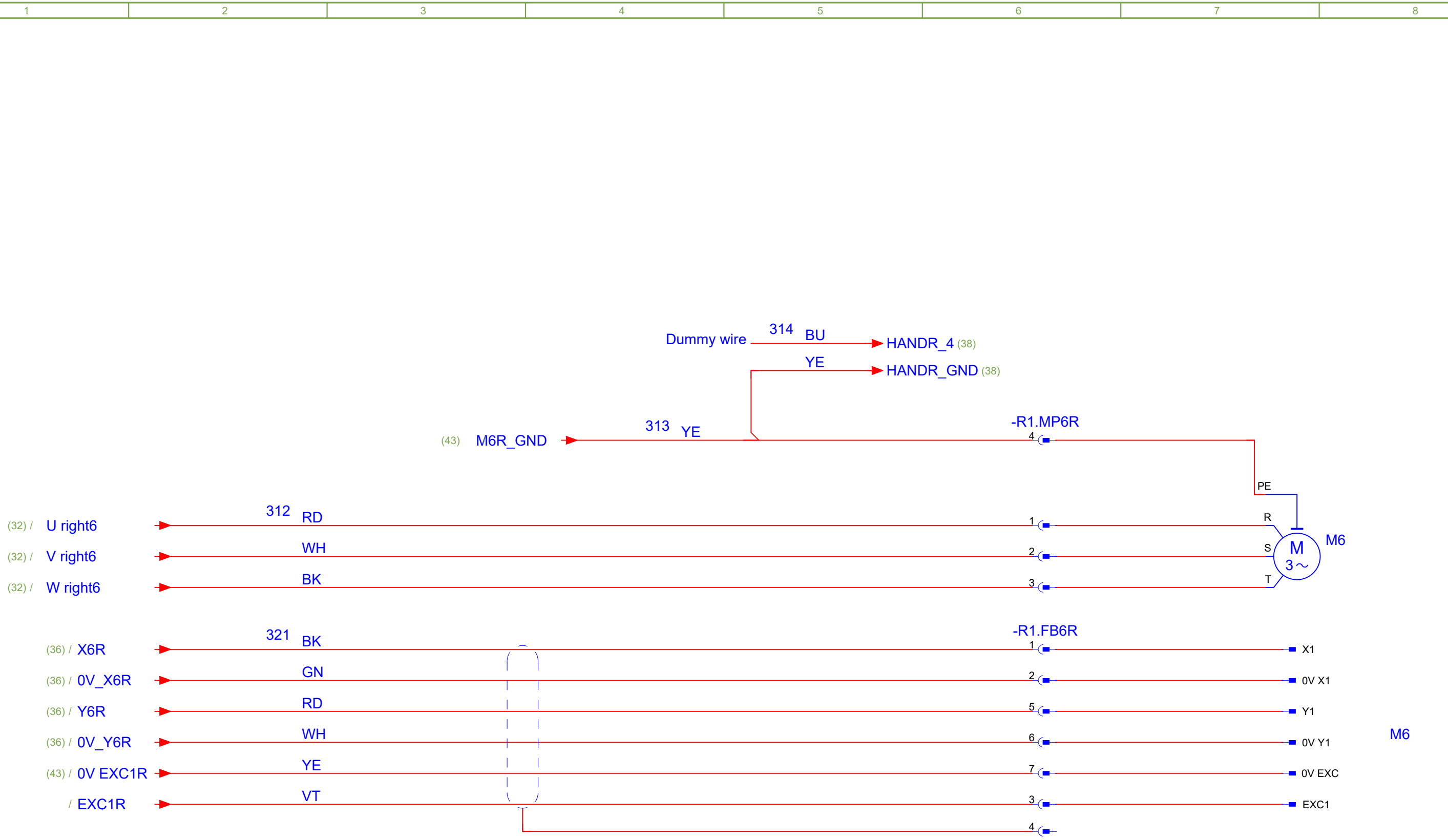
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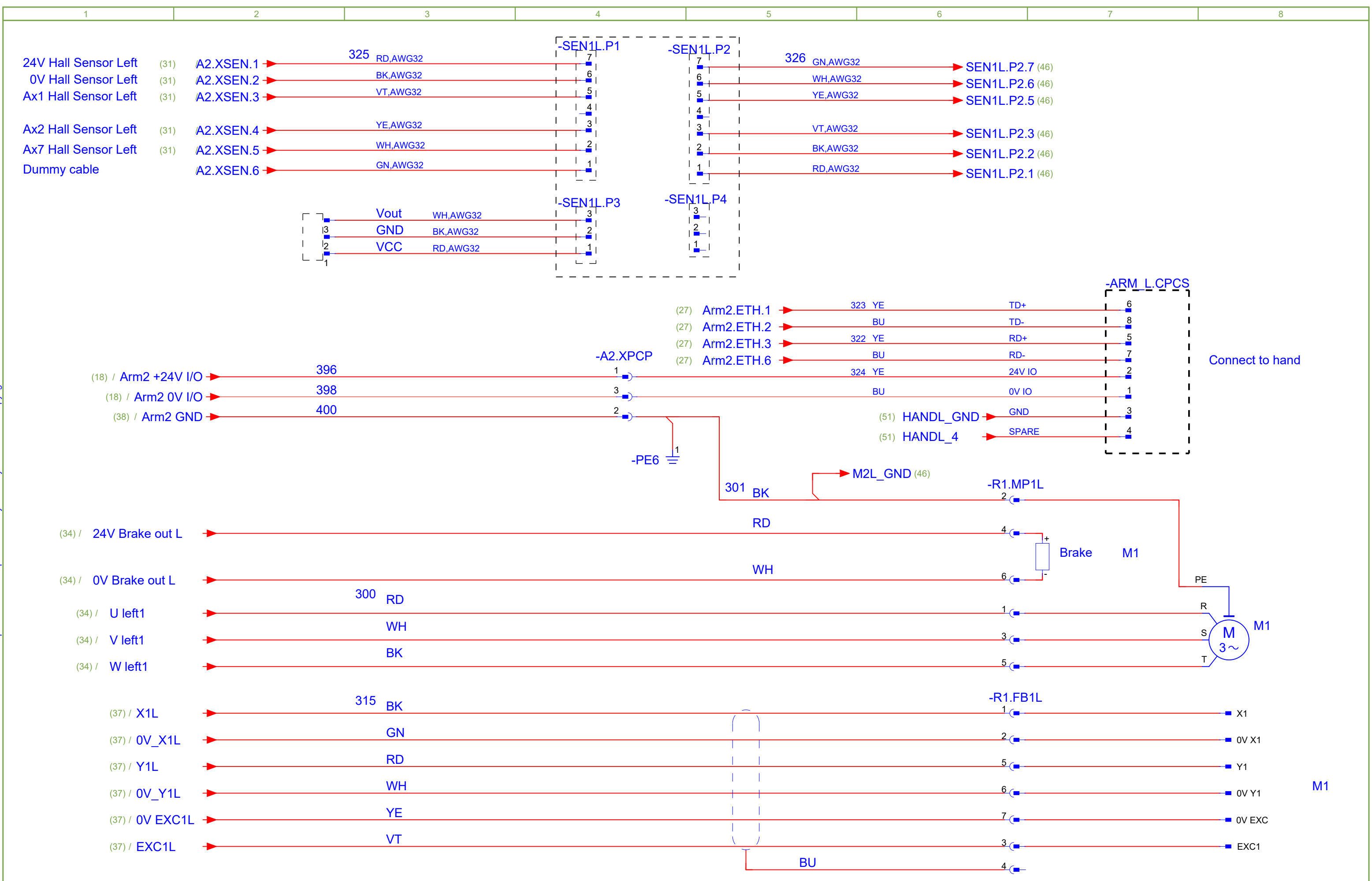
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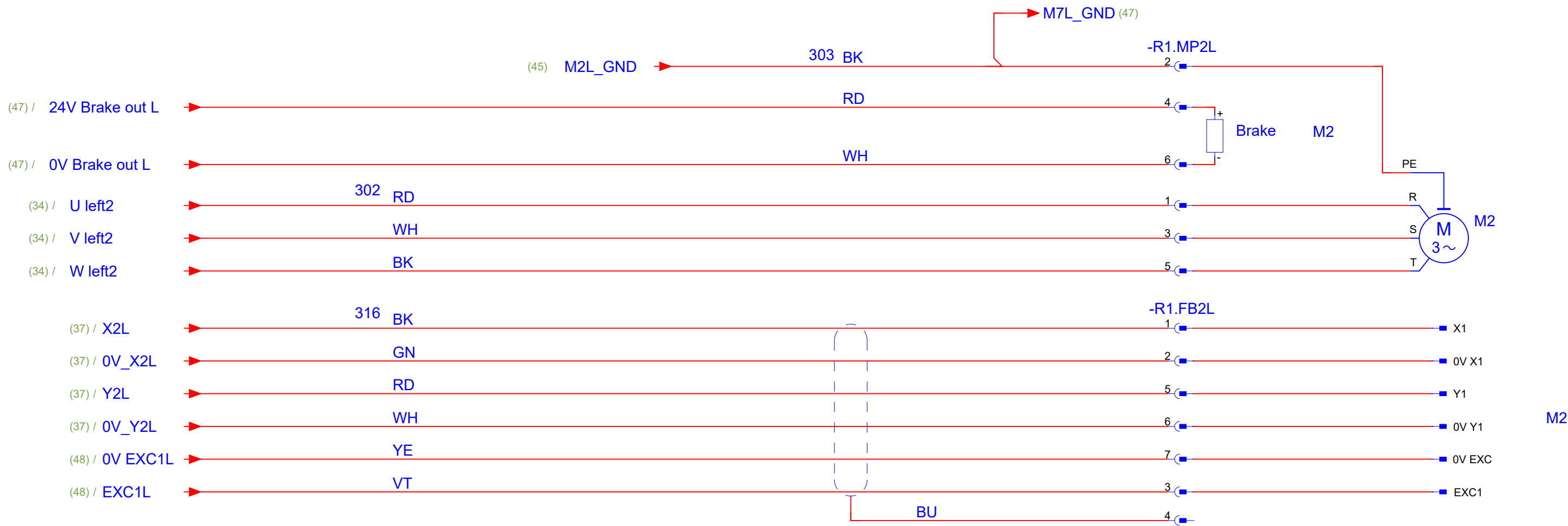
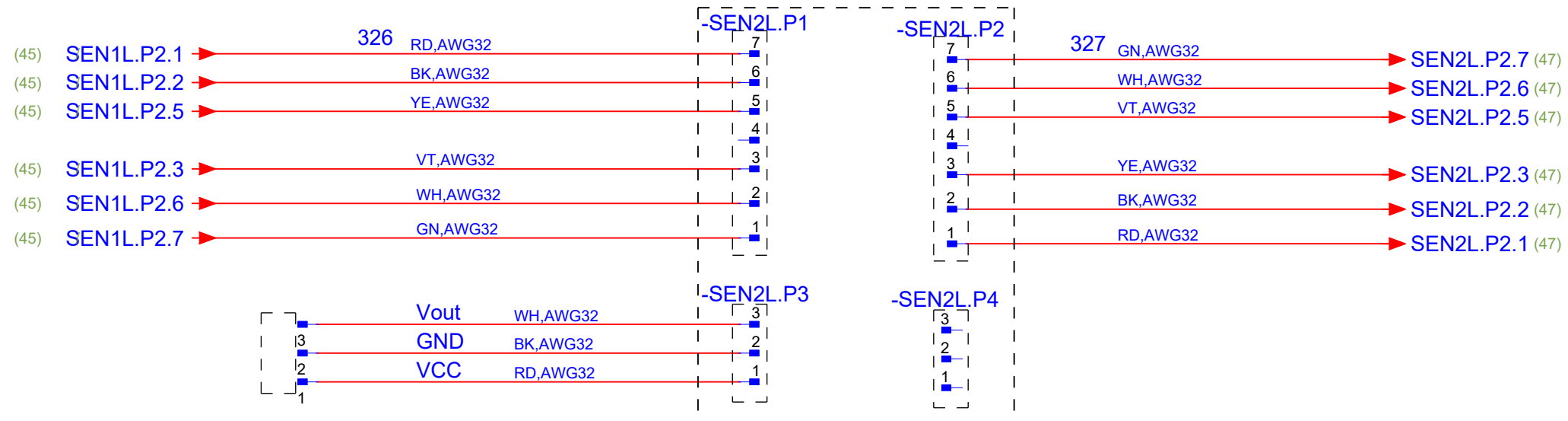
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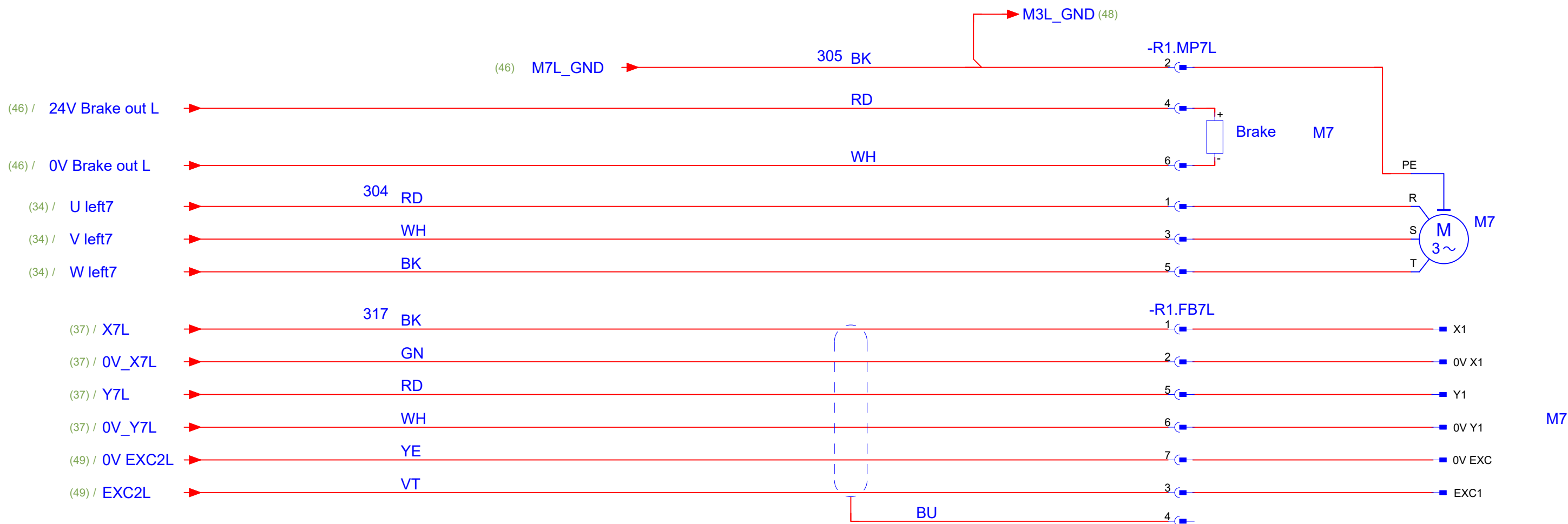
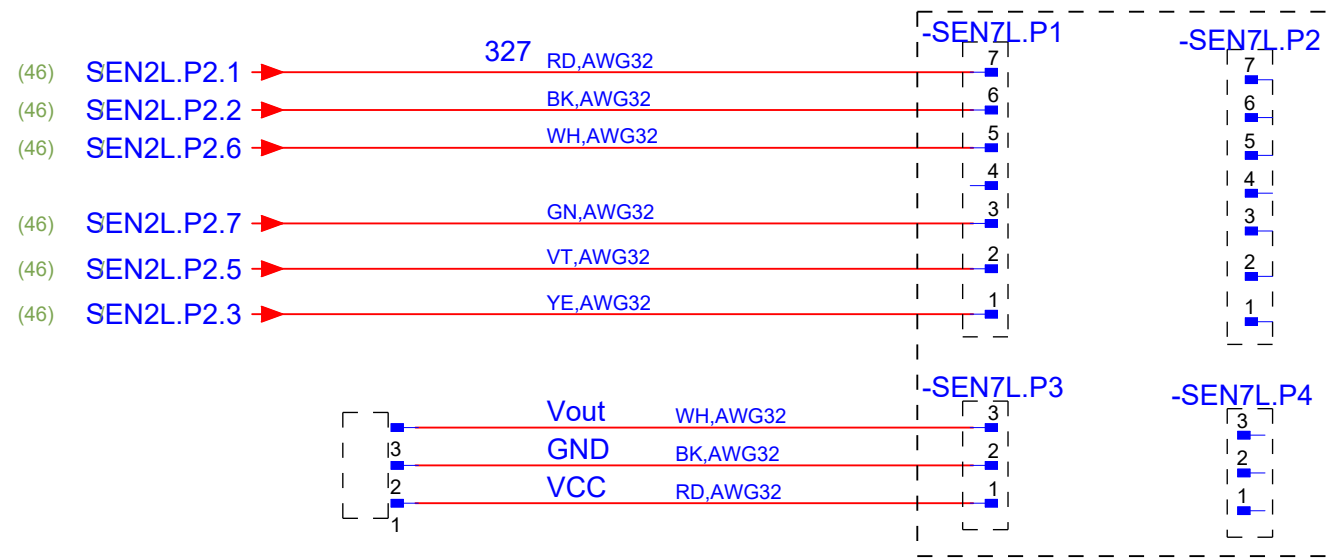
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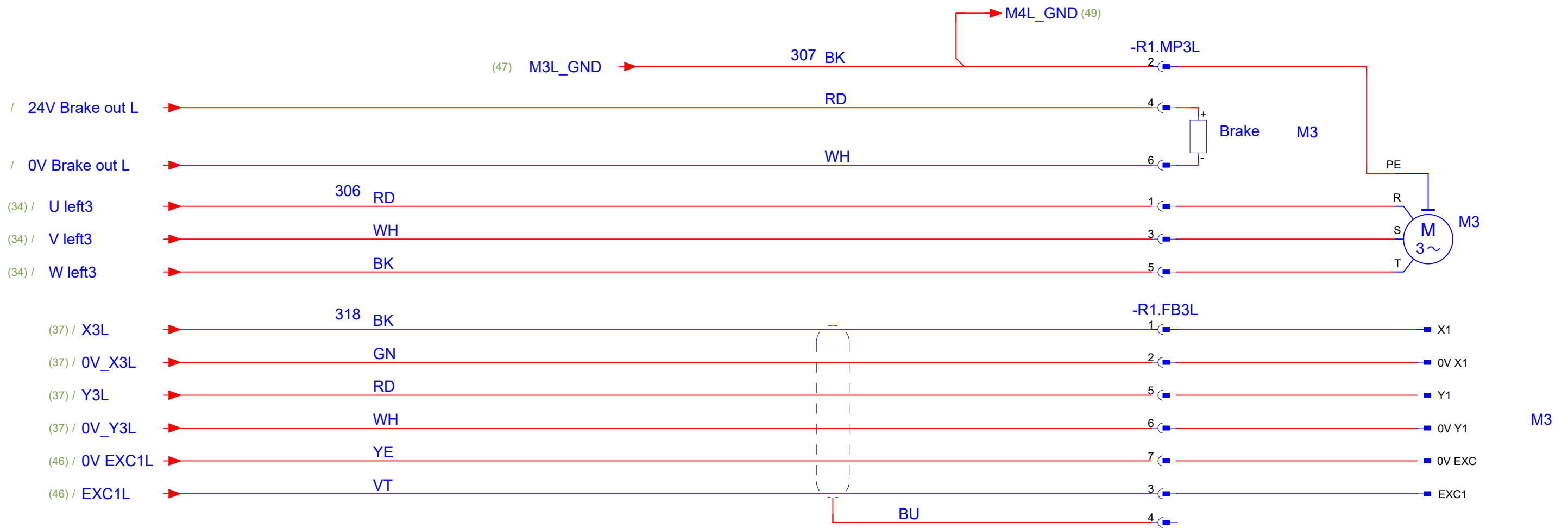
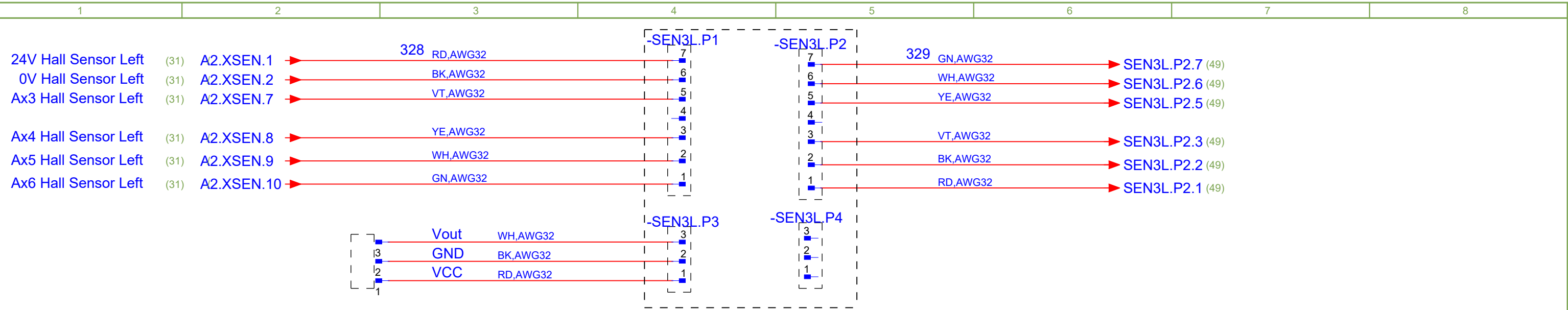


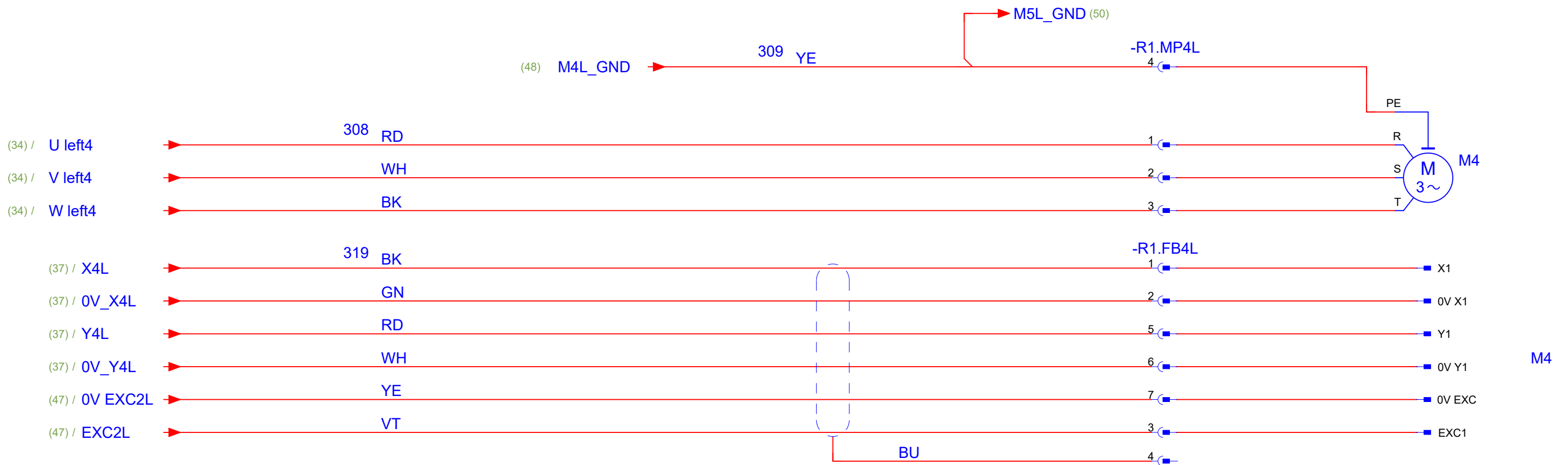
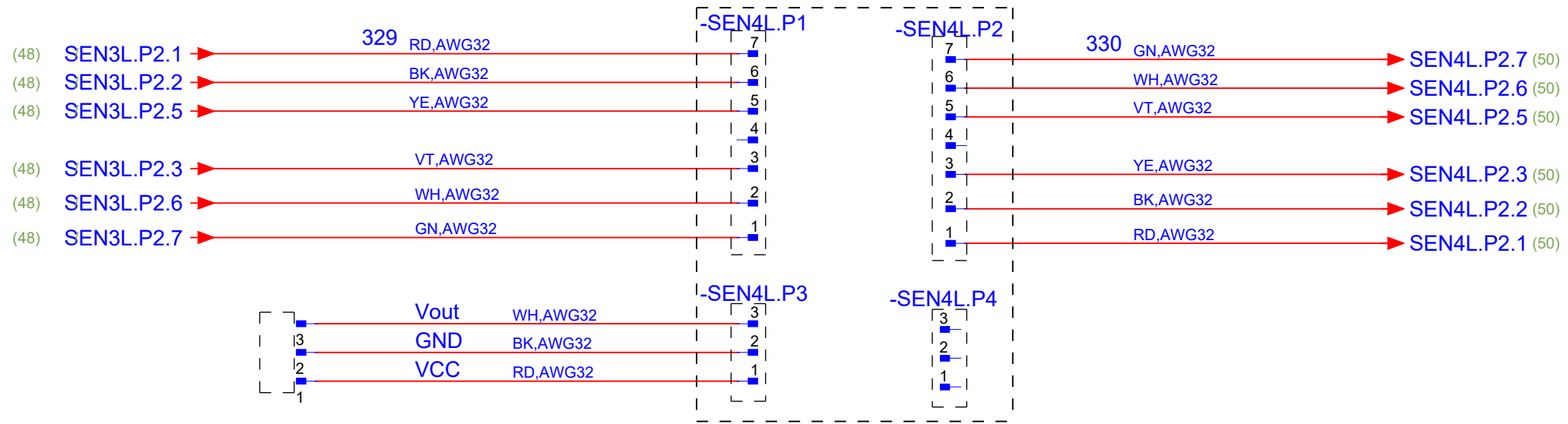
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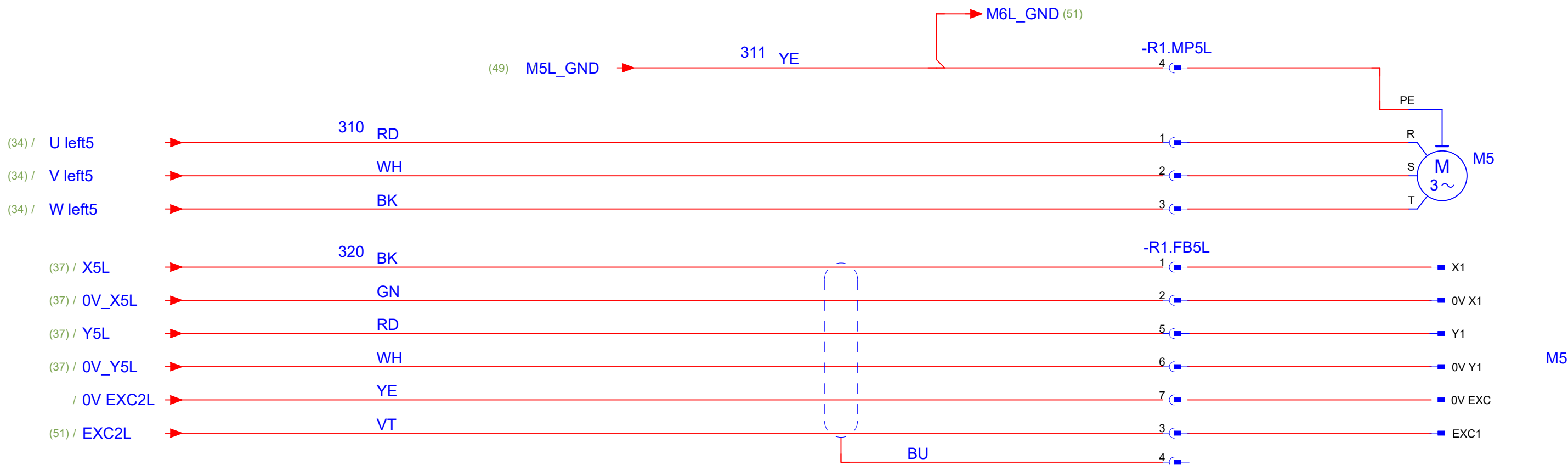
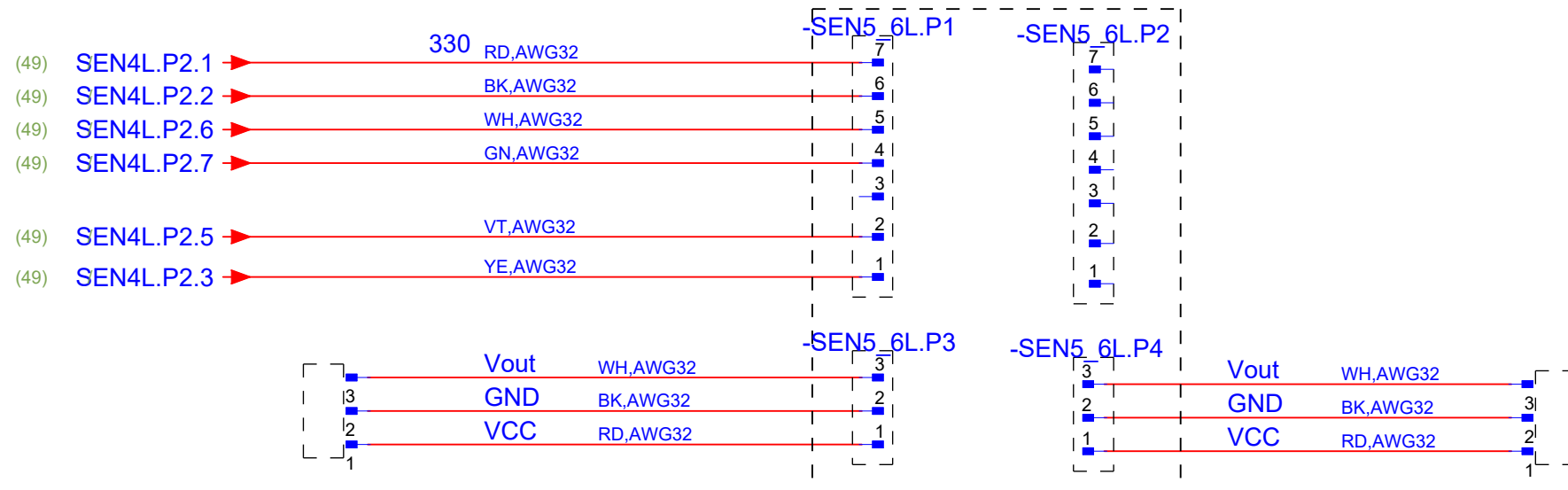
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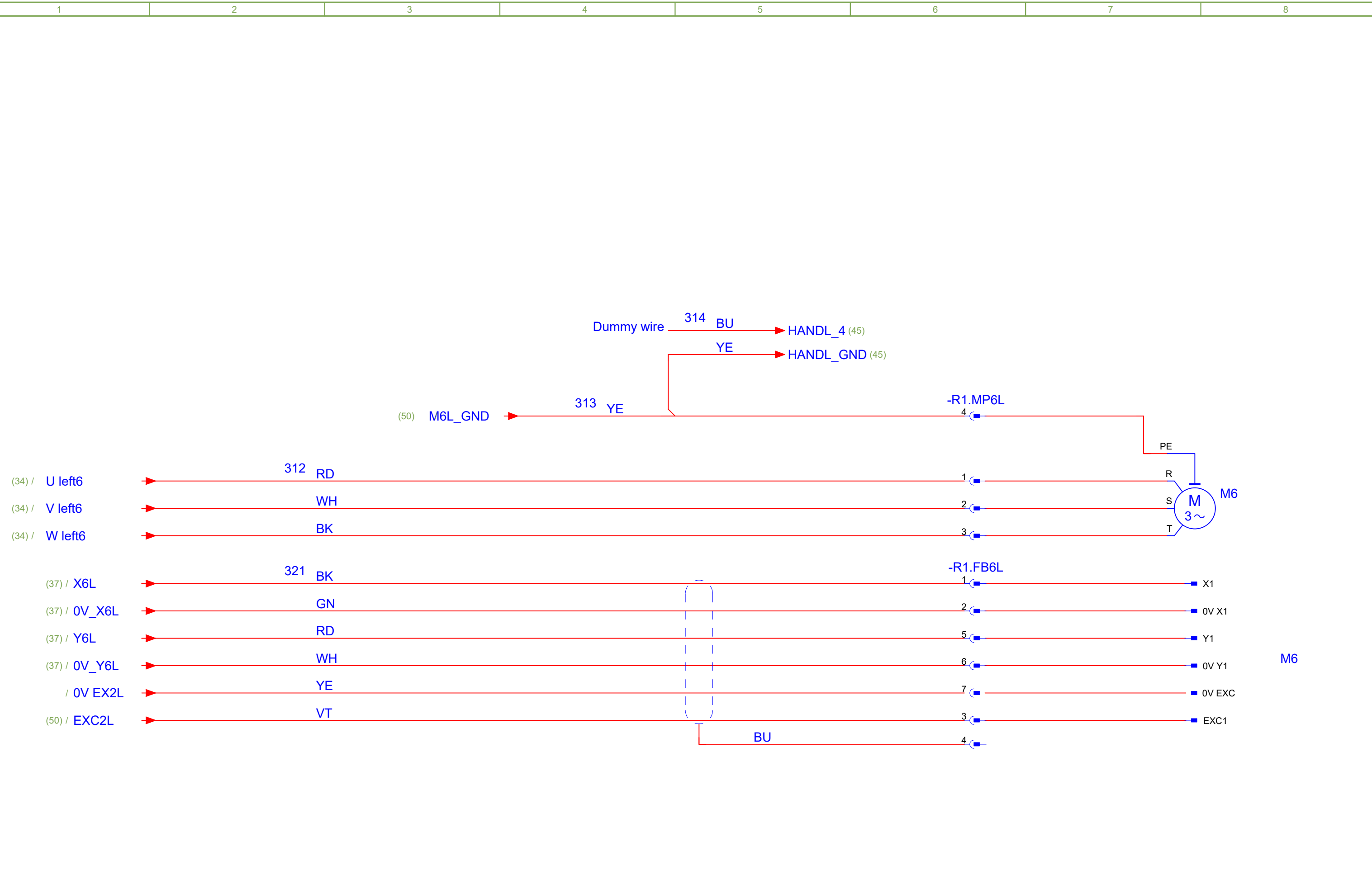
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