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ABB Engineering (Shanghai)
No.4528, Kangxin Highway, Kangqiao Town
Nanhui District, Shanghai, 201319
P.R.China

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Customer :

Drawing number :

Drawing version :

Manufacture :

Type :

Type of installation :

Control cabinet :

Mains voltage :

Supply :

Control voltage :

Year of construction :

Project start :

Project manager :

Last revision :

Designed by :

Designed date :

Number of pages :

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TITLE PAGE

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		4	Table of contents:		3/8/2021	CNCLCHE3
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- Rev 00 2014 10
- Initial Revision
- Rev 01 2016 02
- Update for NGAC SafeMove
- Rev 02 2016 09
- XS16 updated to 4pin
- S21.1 pin number updated
- Rev 03 2017 01
- Update CP/CS for IRB120 IRB1200 IRB1600
- Remove output terminals of DSQC652 and mark two wires : input 24VDC and 0V
- Update Main computer from DSQC1018 to DSQC1024
- Rev 04 2017 03
- Add CP/CS for IRB910 IRB1410
- Add floor cable for IRB910
- Rev 05 2017 10
- Add page 24.a COMBI I/O UNIT INPUT (DSQC651)
- Add page 24.b COMBI I/O UNIT OUTPUT (DSQC651)
- Rev 06 2018 06 12
- Add wire number 371 - K42.4NC , 372 - K42.3NC , 373 - K43.4NC , and 374 - K43.3NC (page 15.b)
- Rev 07 2019 08 14
- Correct the A21 inner connection for X9, X10, X1 and X2.
- Rev 08 2021 03 08
- Removed page 13.b RUN CHAIN OPERATING SW MODE SELECTOR, 2 MODES
- Rev 09 2021 04 30
- Change the interface of remote service box(A61) in Page 40.
- Add the adapter X103 in Page 40.
- Rev 10 2022 05 26
- Change the code of Device net and Profinet in Page 18.

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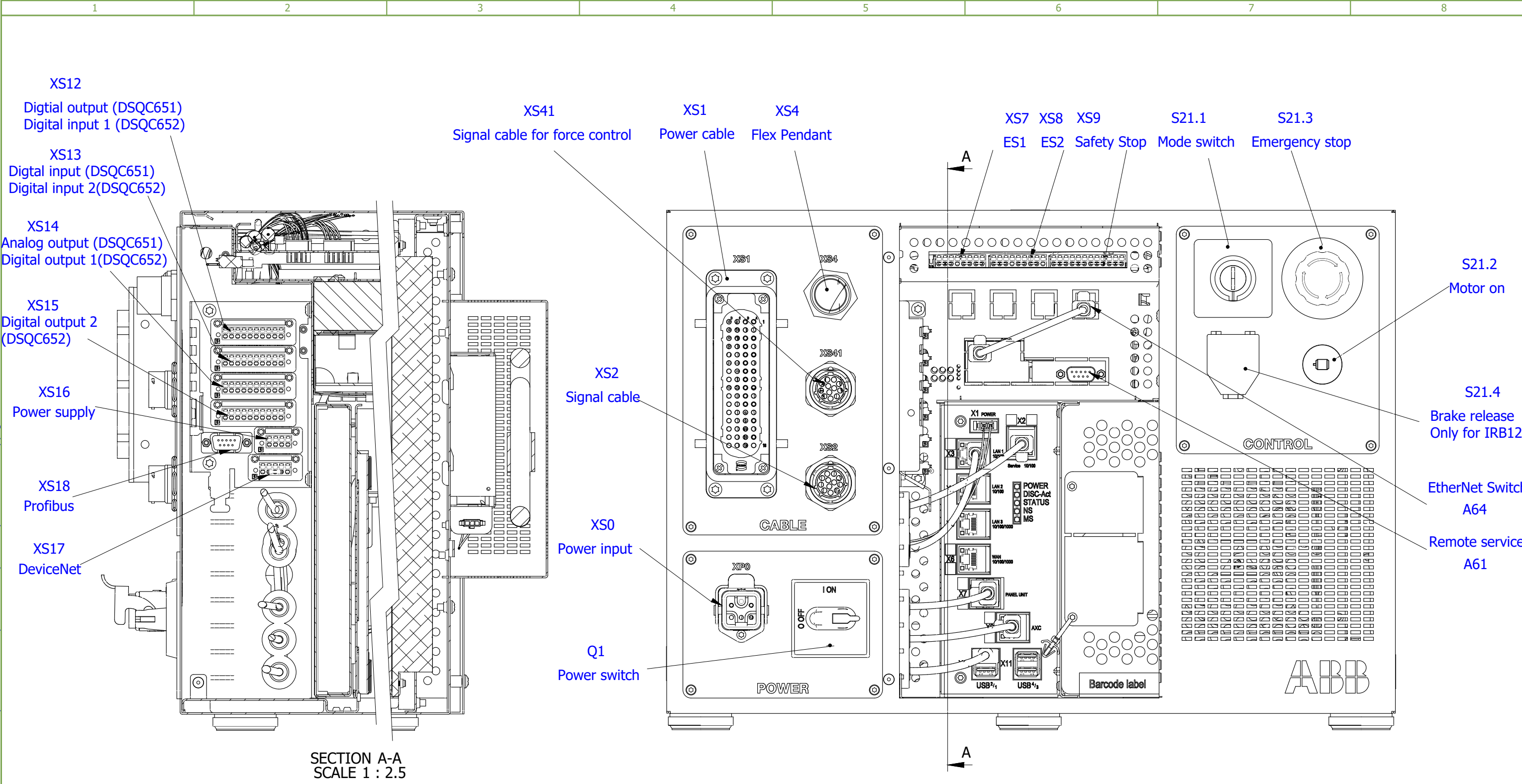


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REVISION INFORMATION

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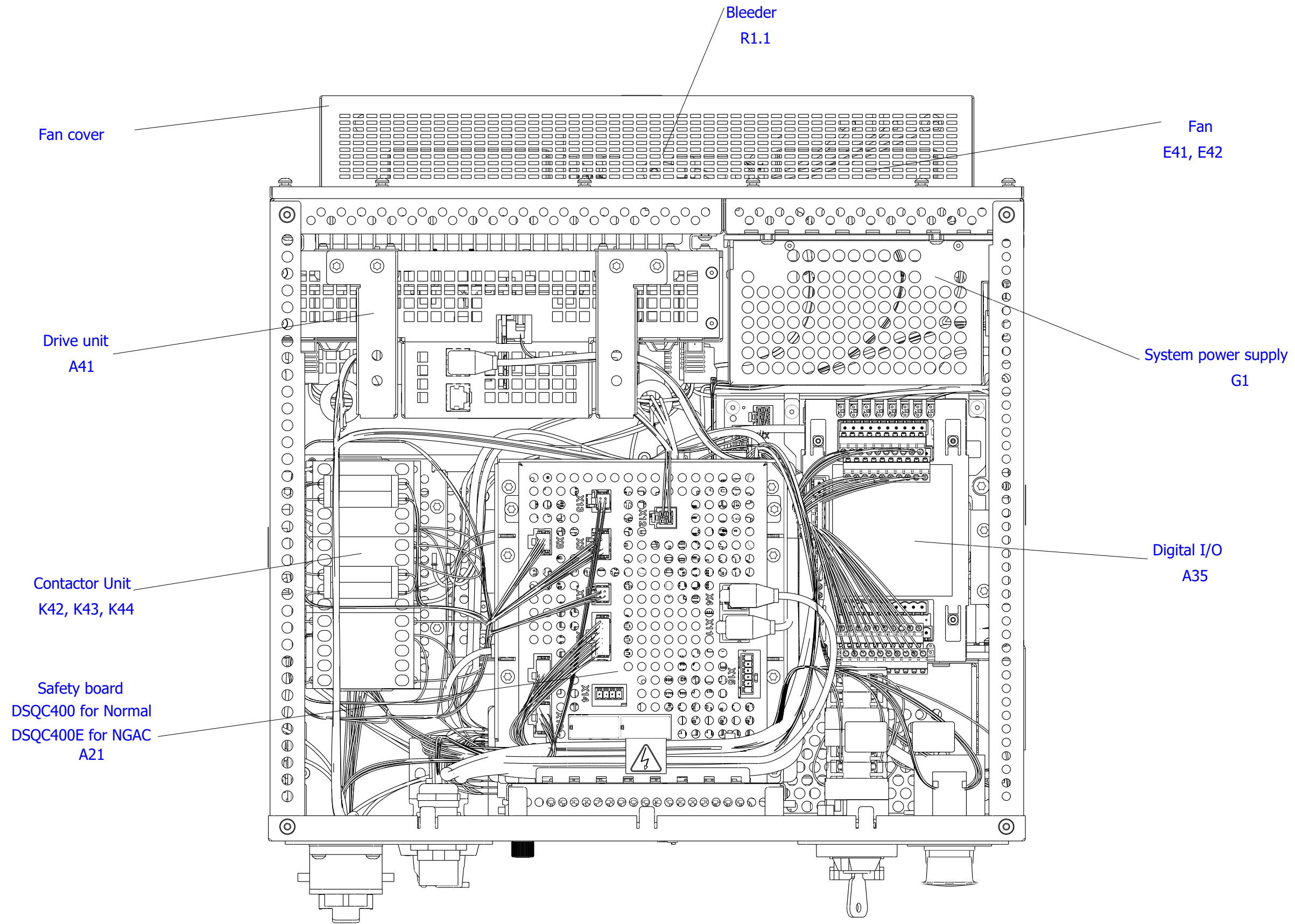
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Front View

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Top View

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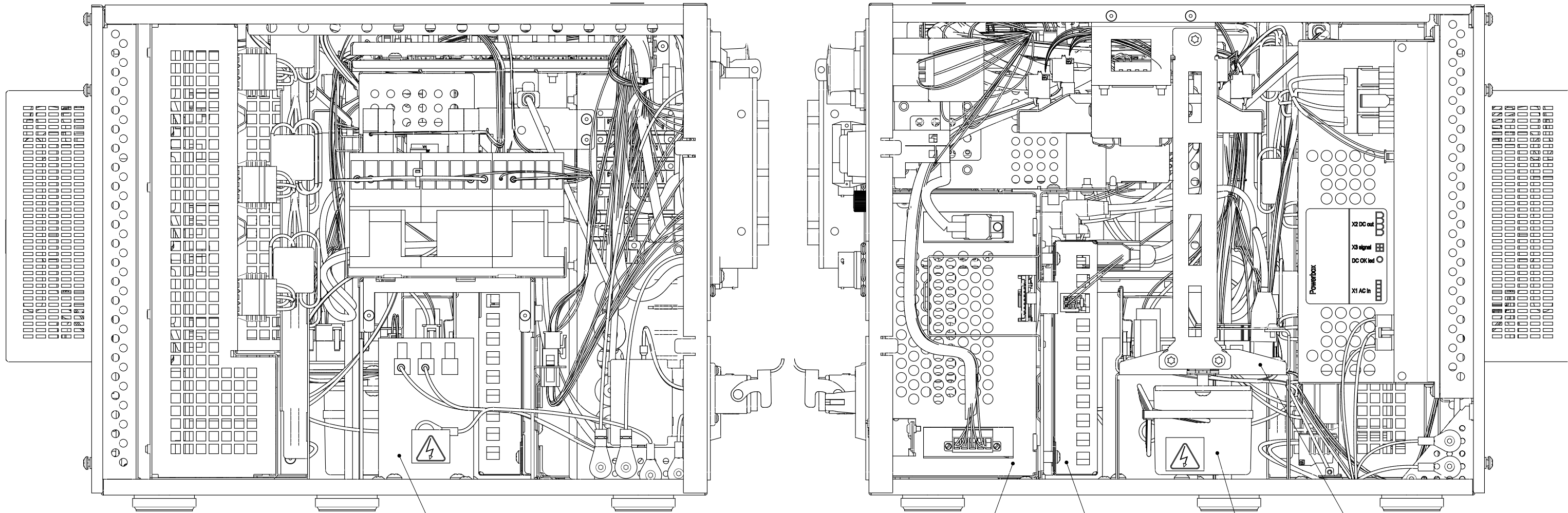
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Leftside View

Rightside View



Filter
Z1

Main computer Axis computer Ultra cap bank Power distribution
A31 A42 G3 G2

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Side View

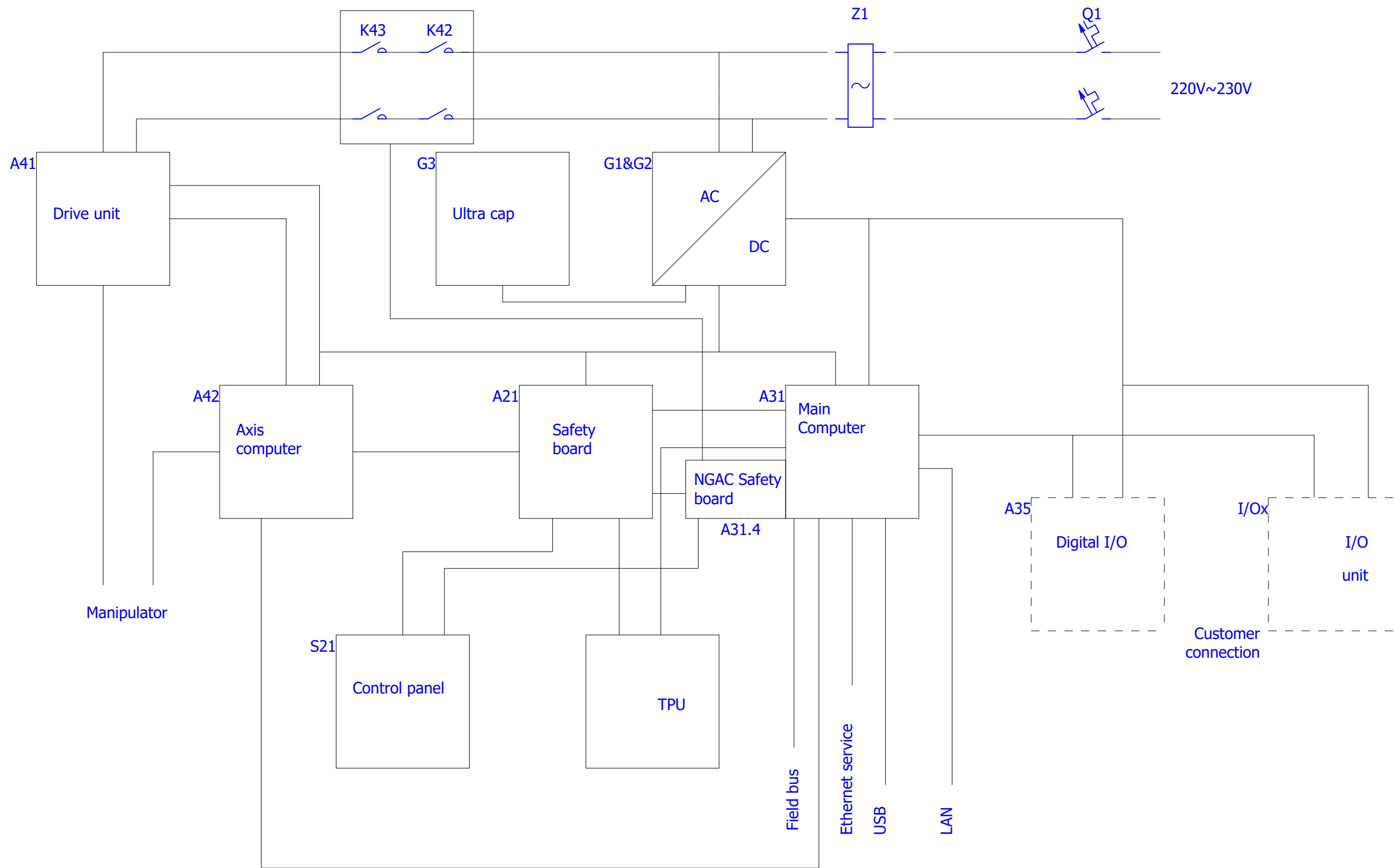
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BLOCK DIAGRAM

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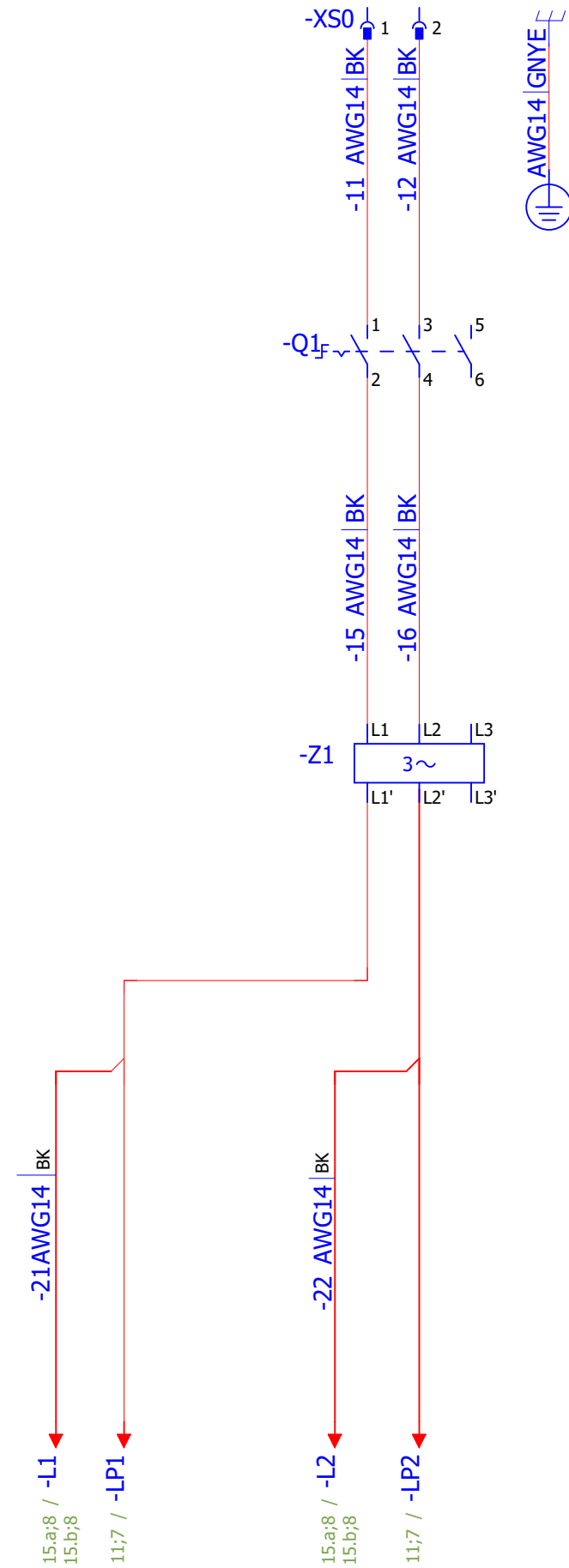
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Wire No.	Single phase
11	P
12	N
15	P
16	N
21	P
22	N



Lab/Office:

MAIN POWER INPUT

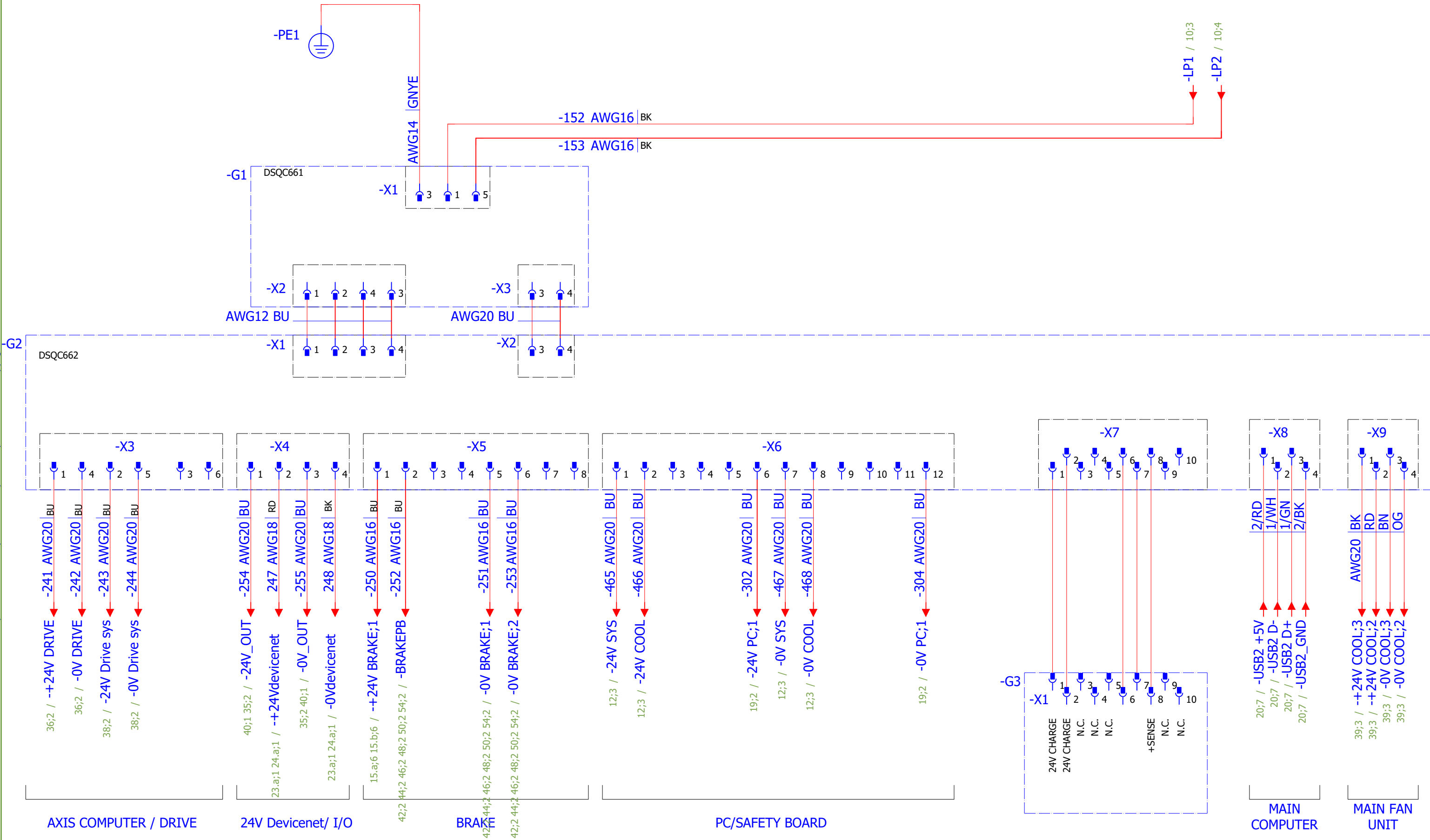
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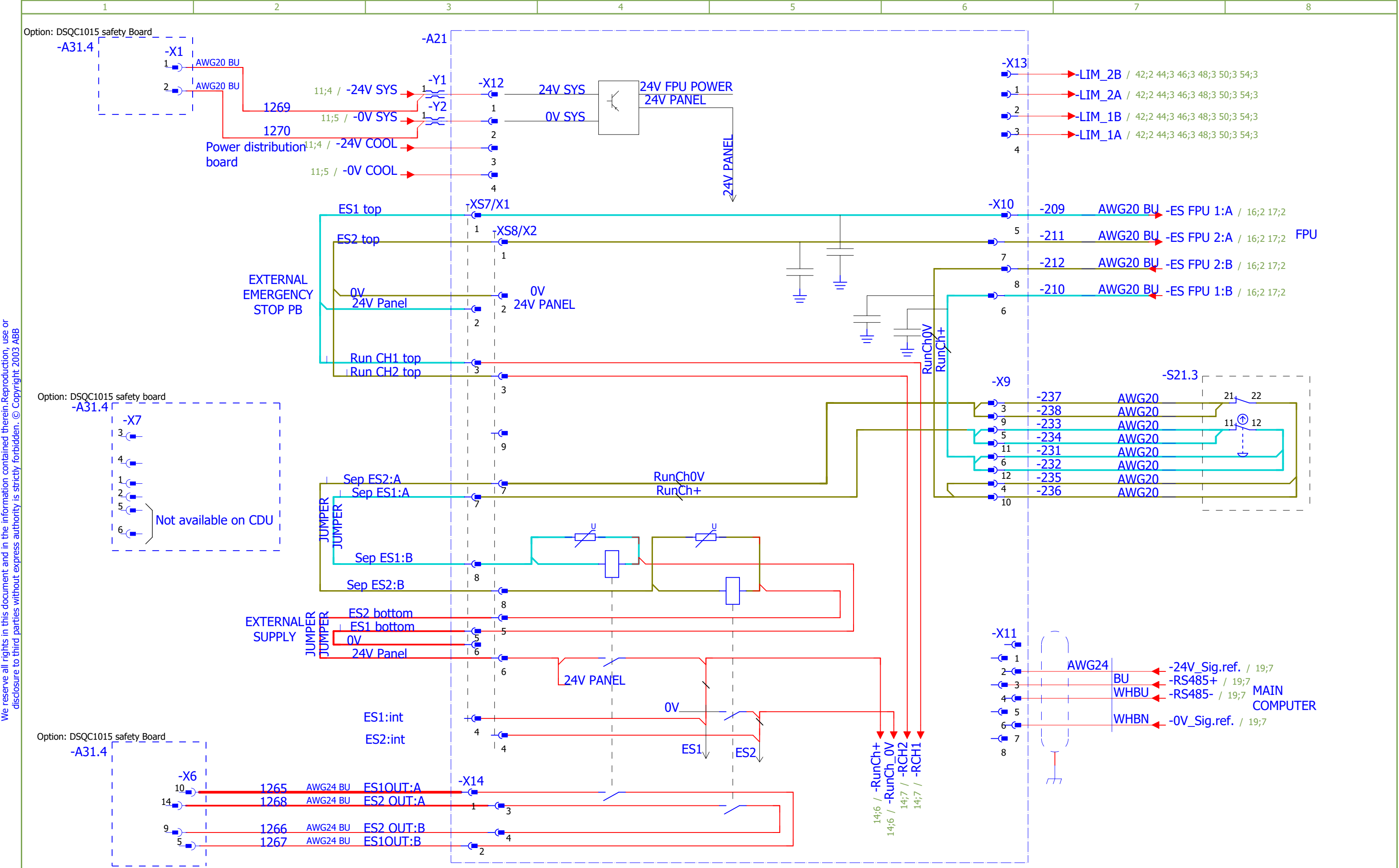
POWER SUPPLY DSQC 661 AND 662

Status:
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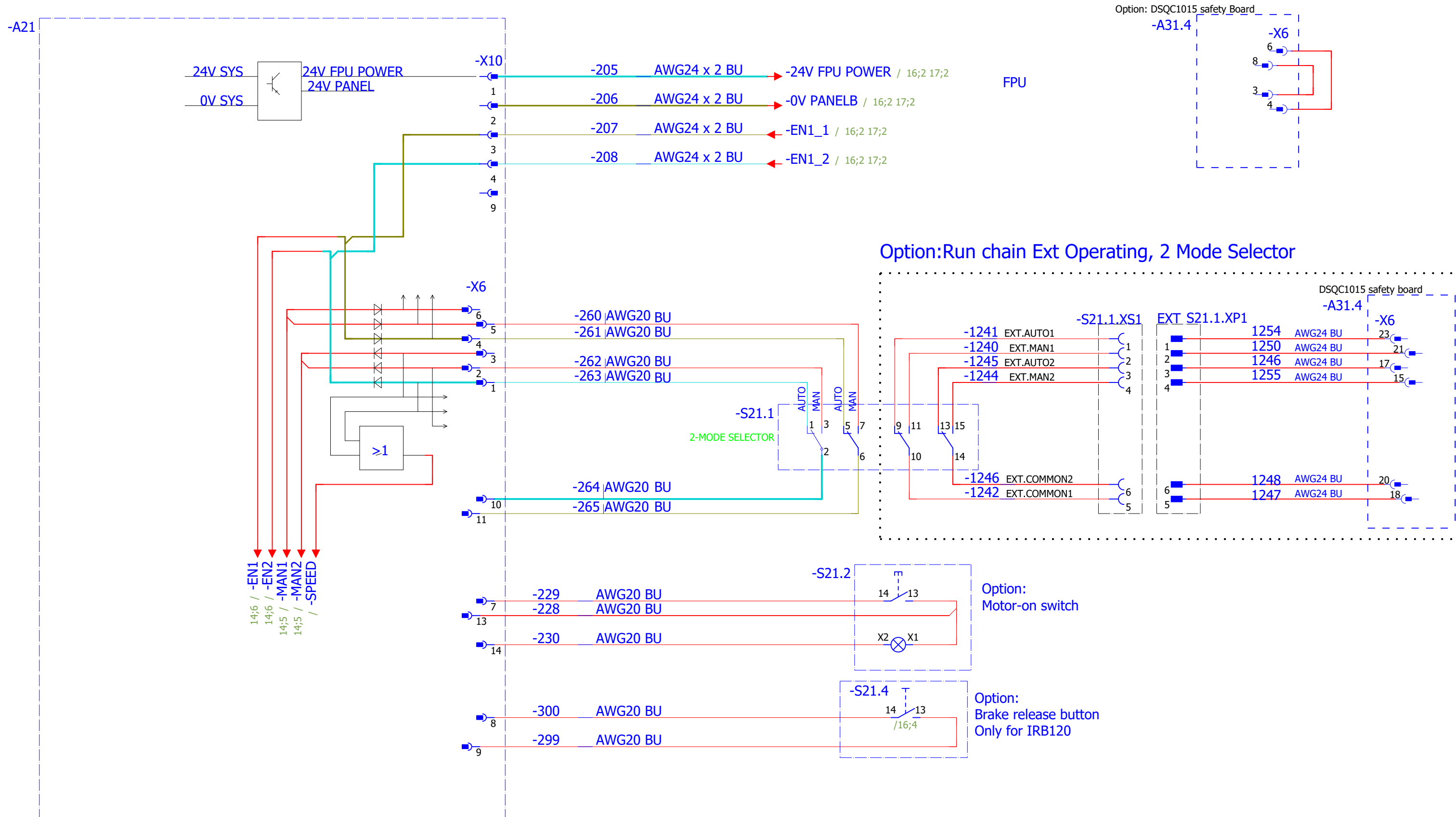
SAFETY INPUT & OUTPUT

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Prepared by, date: CNALWAN22 Approved by, date:

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RUN CHAIN OPERATING HW MODE SELECTOR, 2 MODES

Status:
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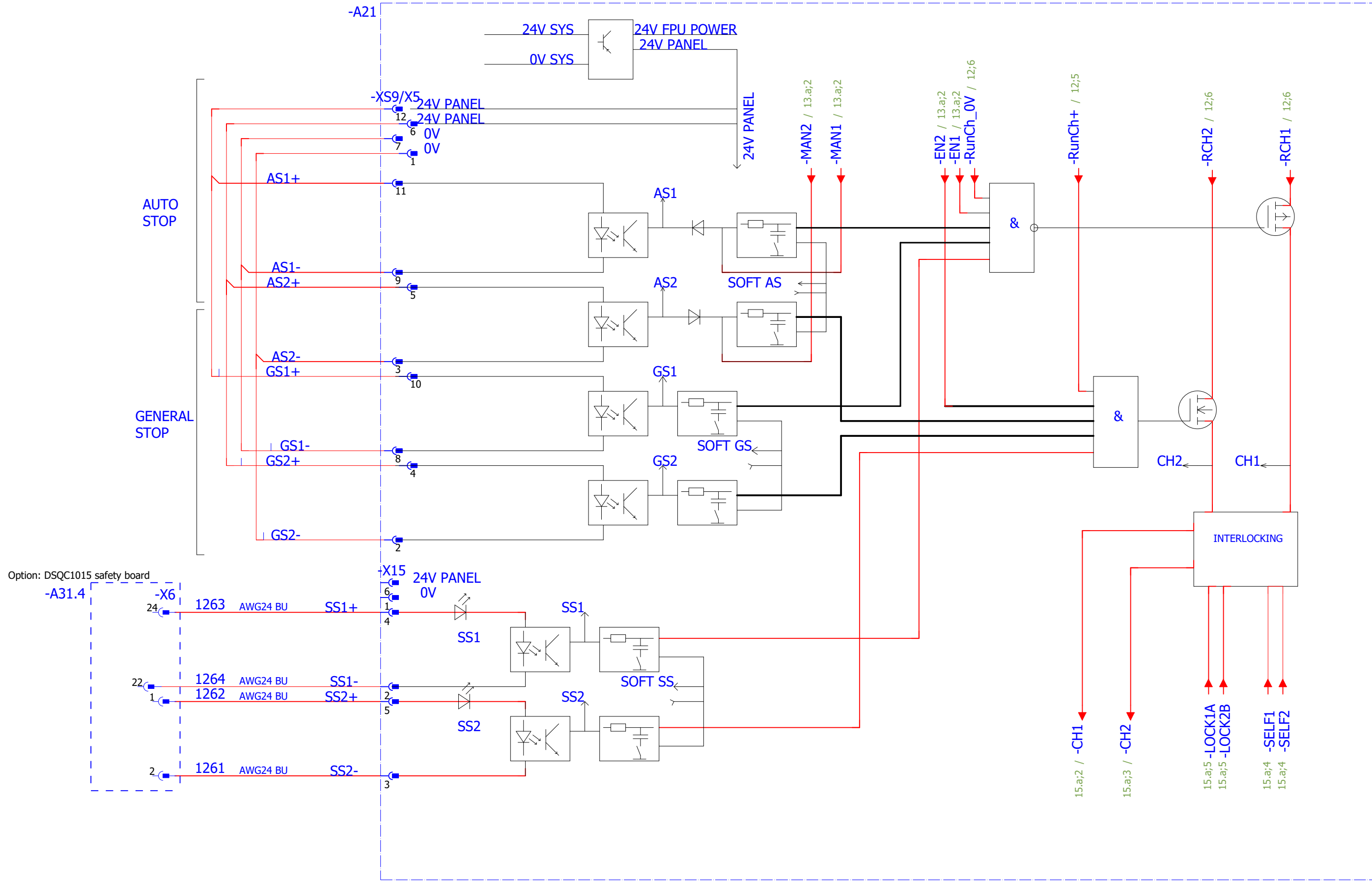
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PROTECTIVE STOP

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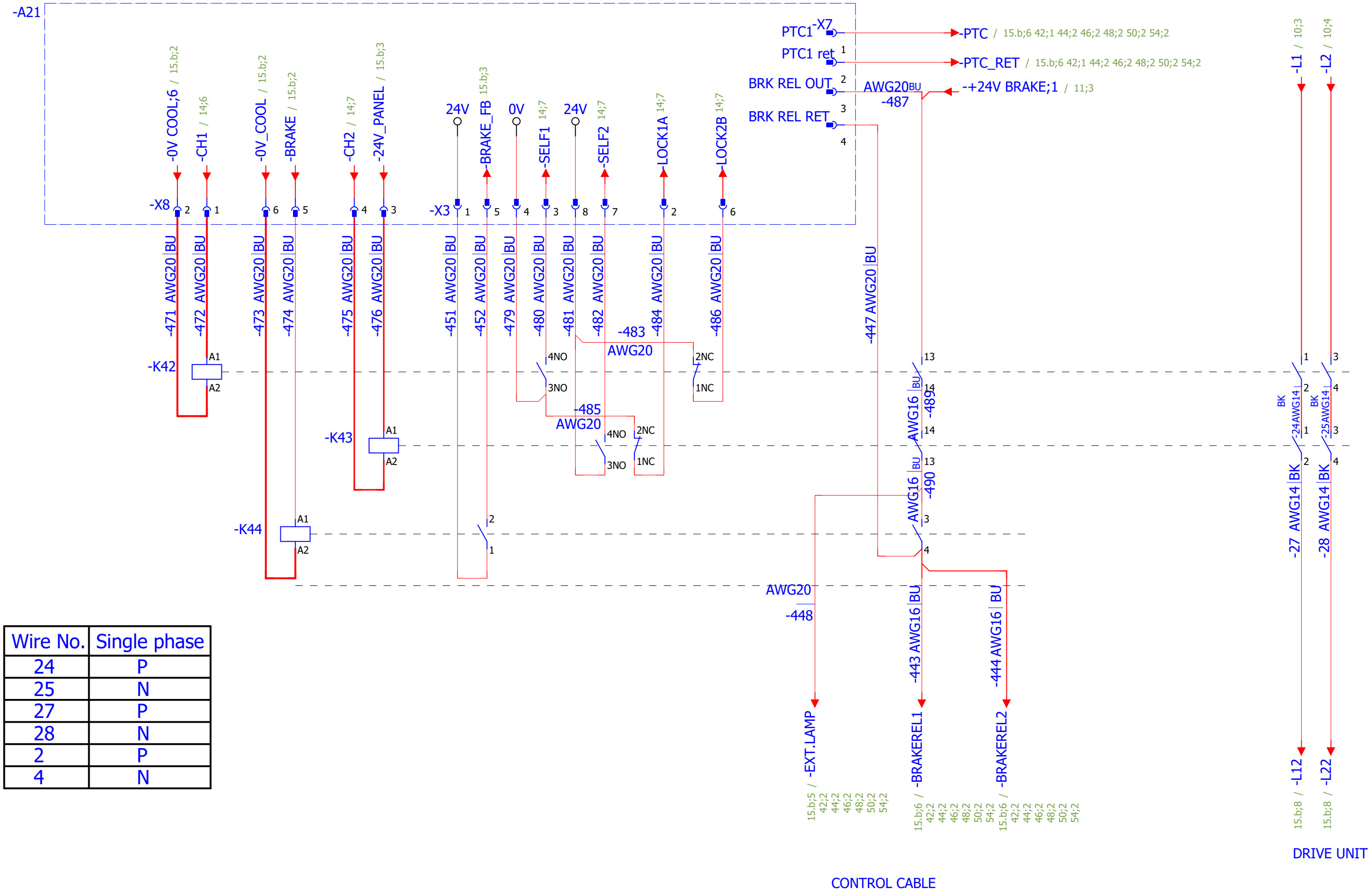
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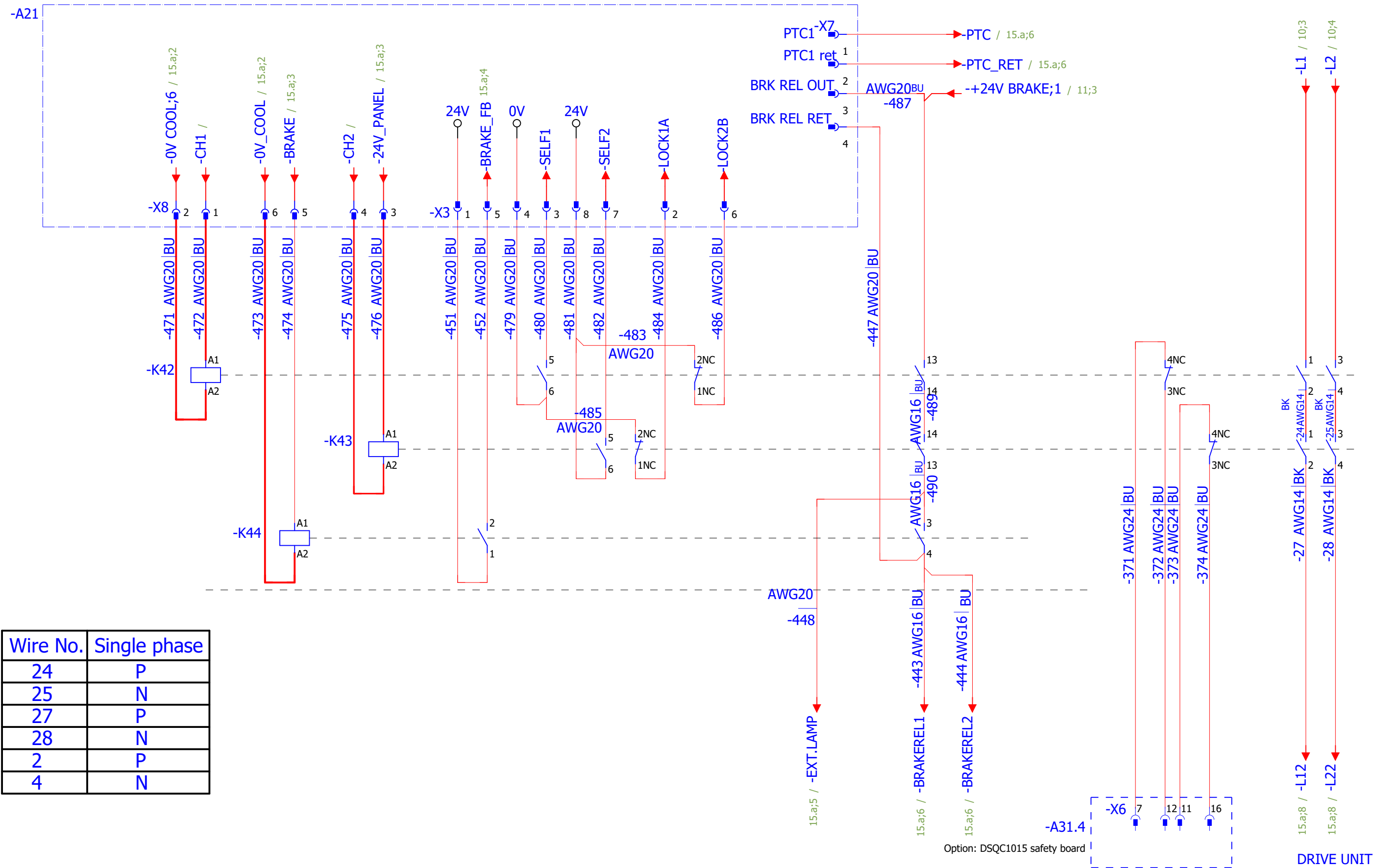
Wire No.	Single phase
24	P
25	N
27	P
28	N
2	P
4	N

Latest revision:
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ABB Lab/Office:
 POWER UNIT
 SERVO DISCONNECTOR

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 Plant: =
 Location: +
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Wire No.	Single phase
24	P
25	N
27	P
28	N
2	P
4	N

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POWER UNIT SERVO DISCONNECTOR, Option-Safemove

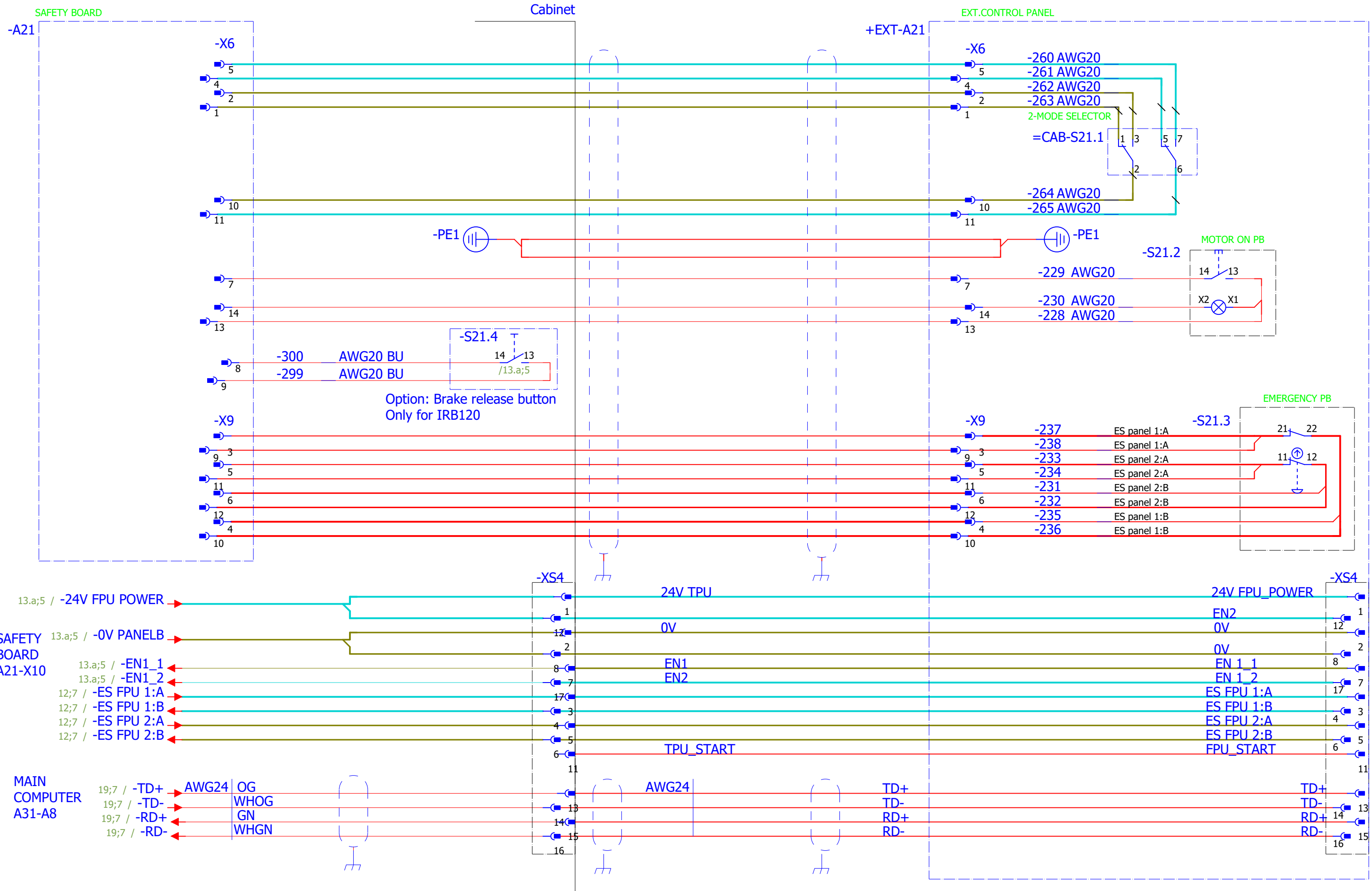
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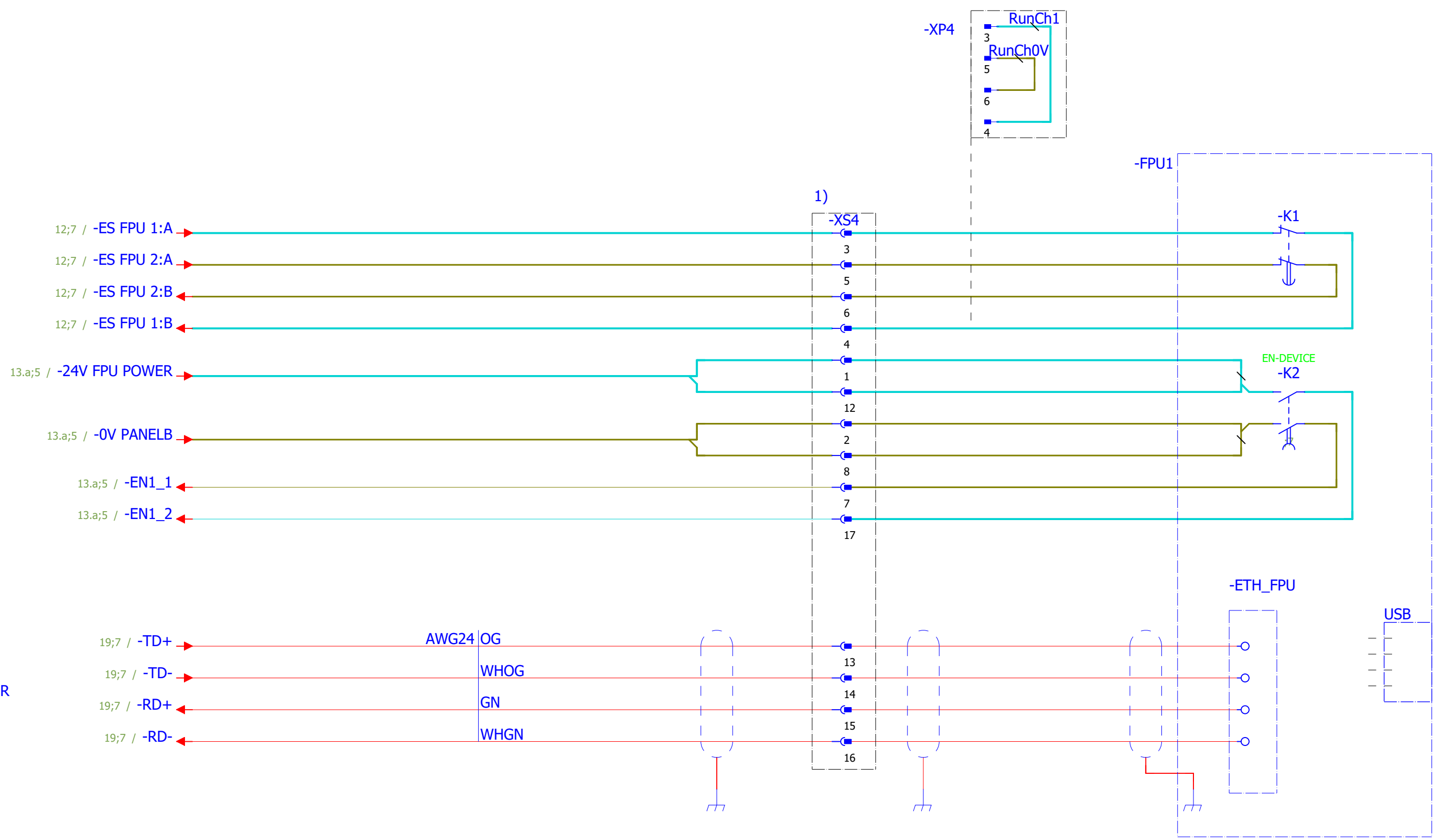
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SAFETY BOARD
A21-X10

MAIN COMPUTER
A31-A8



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FPU, FLEXPENDANT

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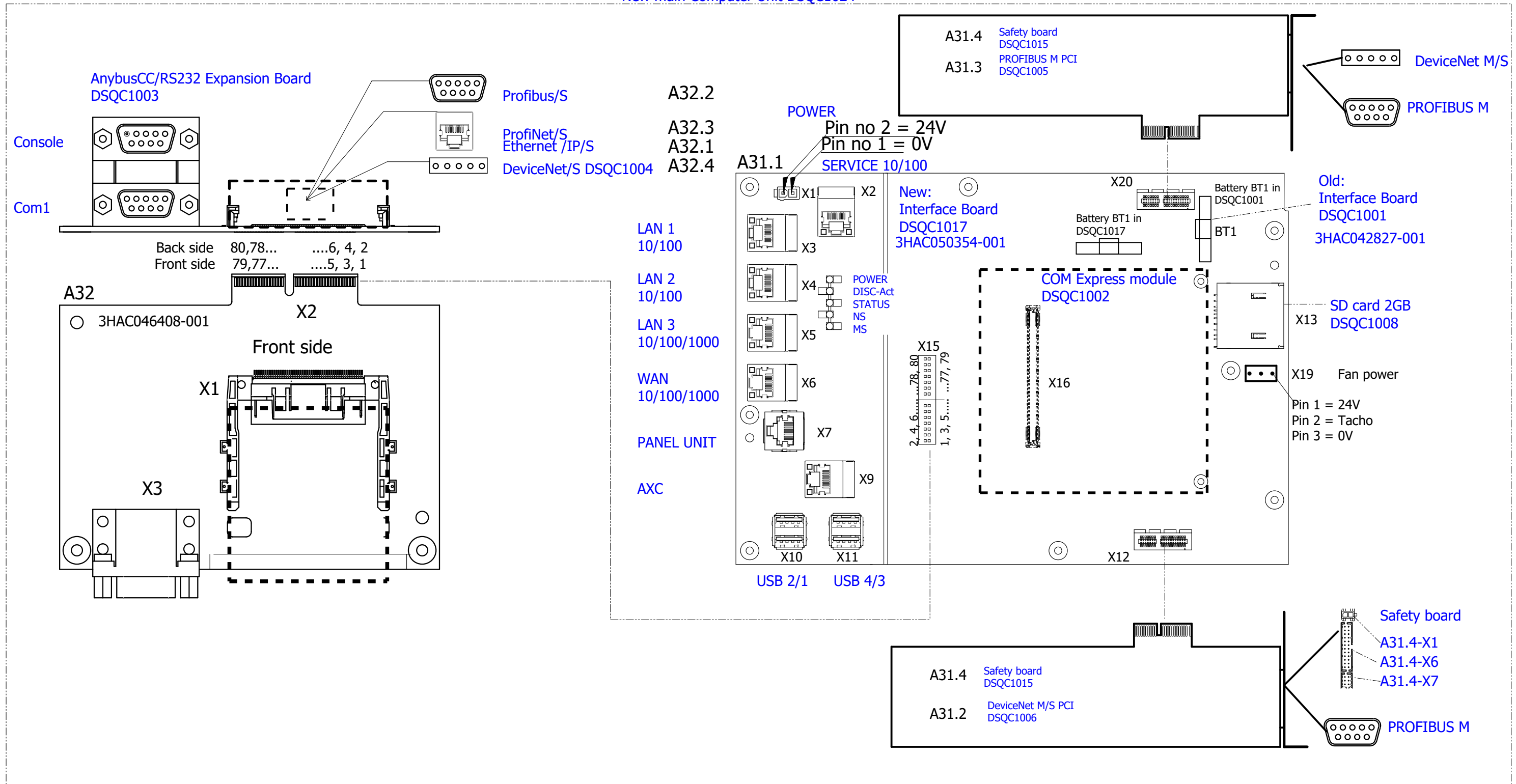
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A31
 Old Main Computer Unit DSQC1018
 New main Computer Unit DSQC1024



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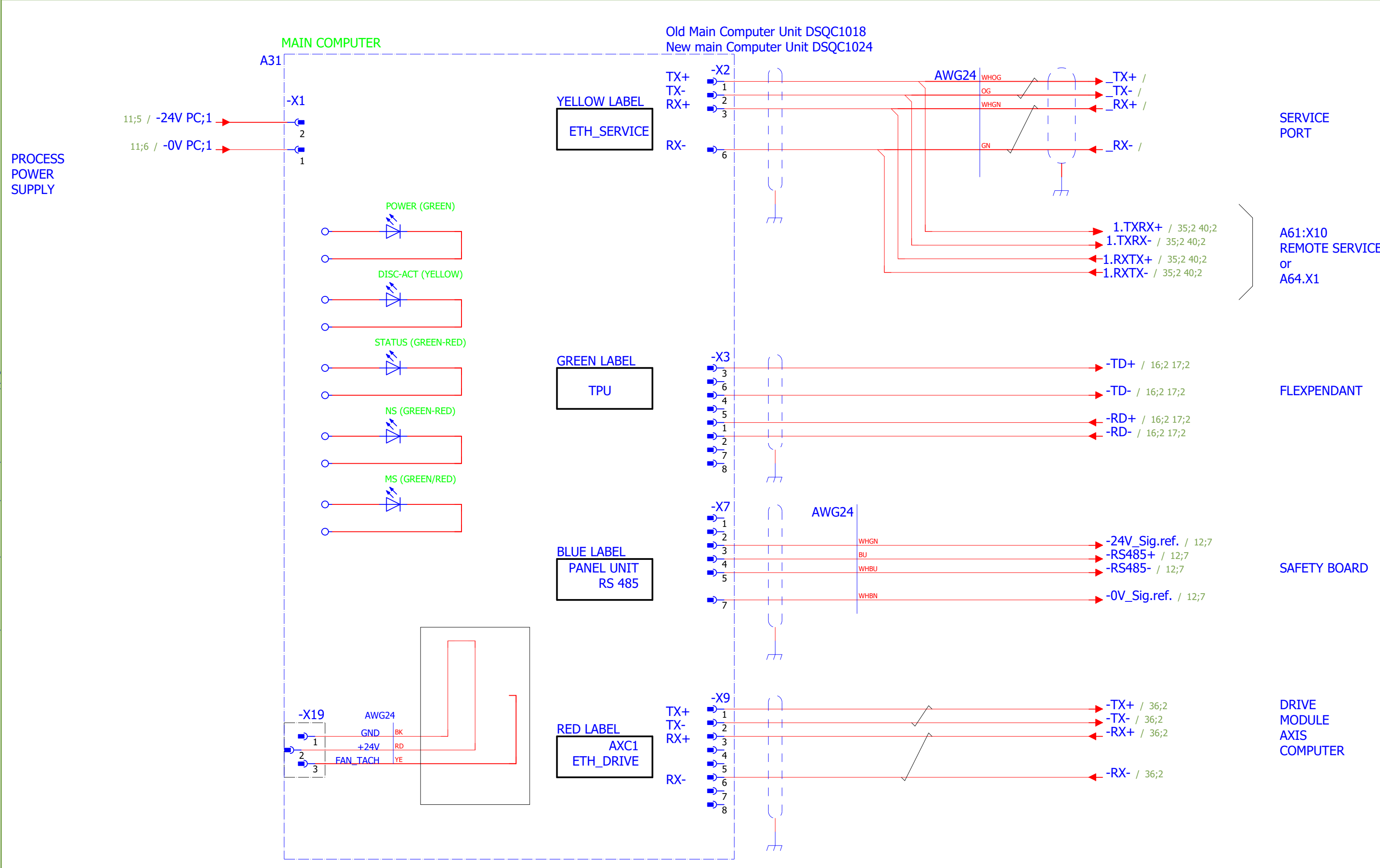
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Main Computer/AnybusCC/RS232 Exp./Interface Board/

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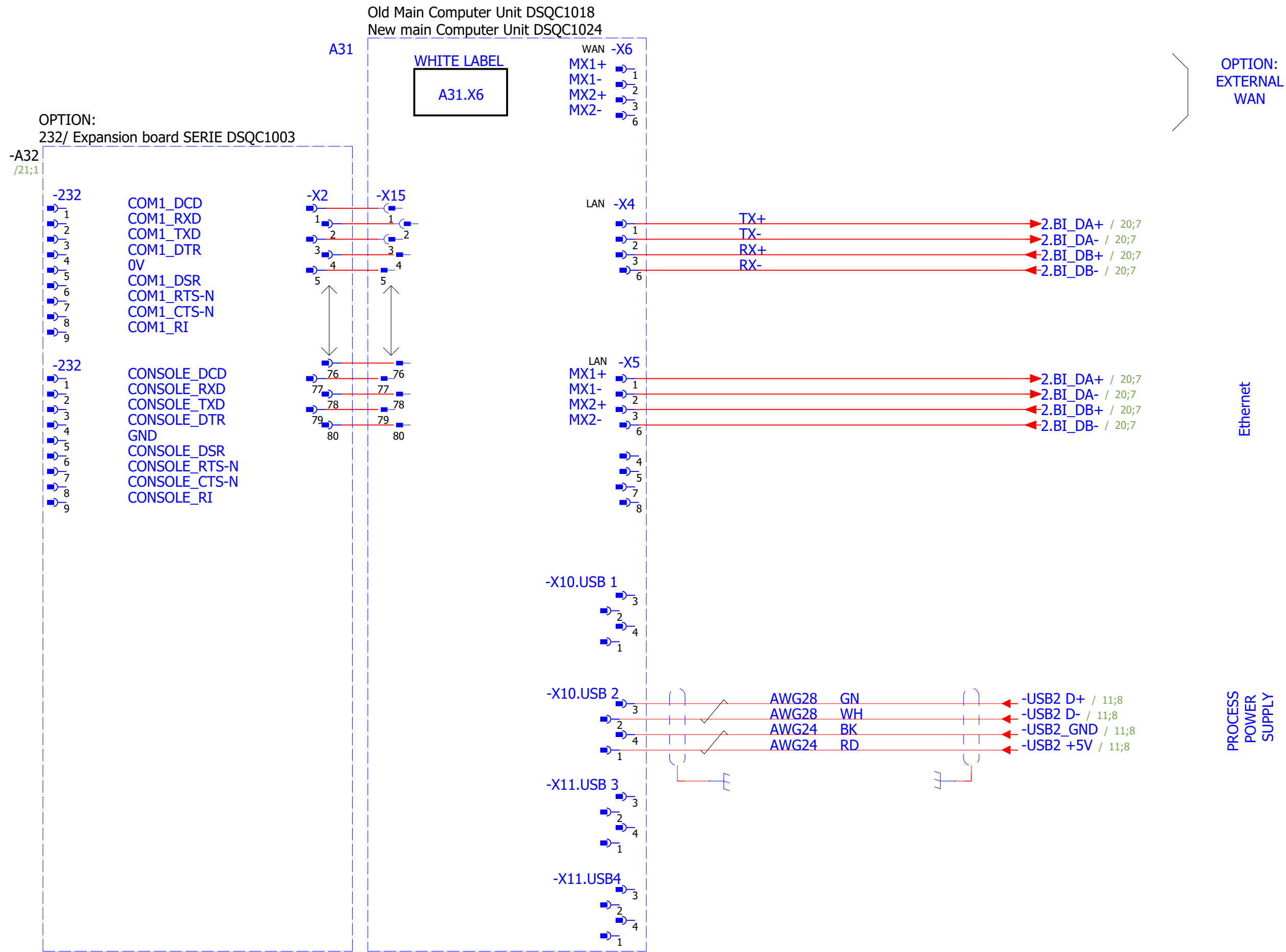


Lab/Office:
 MAIN COMPUTER A31 DSQC1018 / DSQC1024

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MAIN COMPUTER A31 DSQC1018 / DSQC1024; A32 DSQC1003

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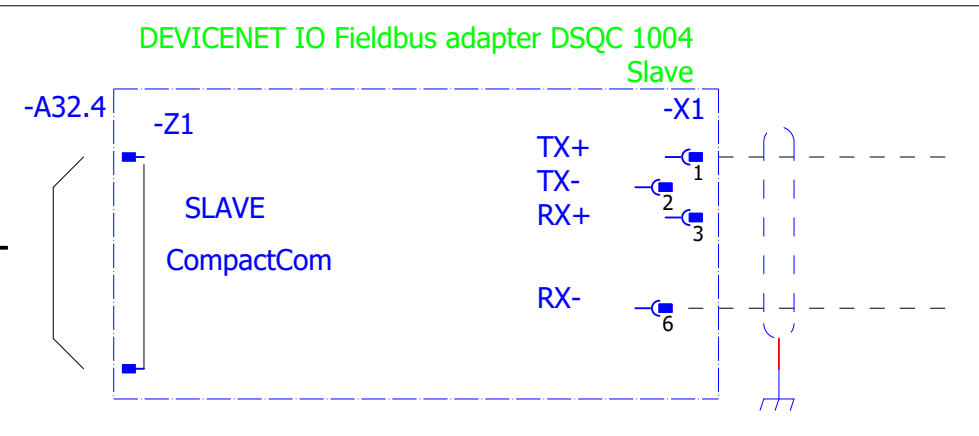
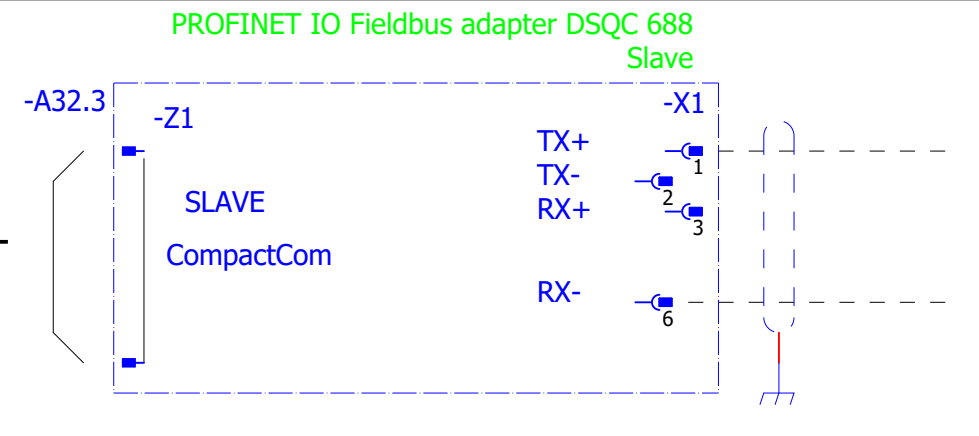
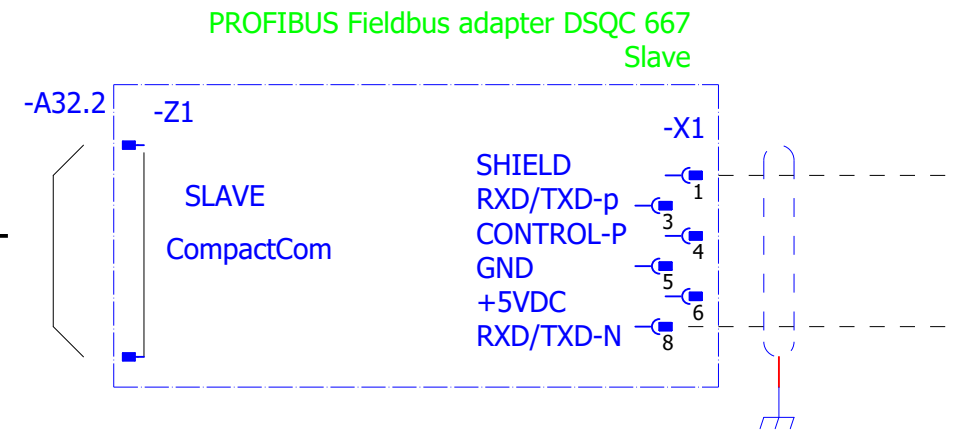
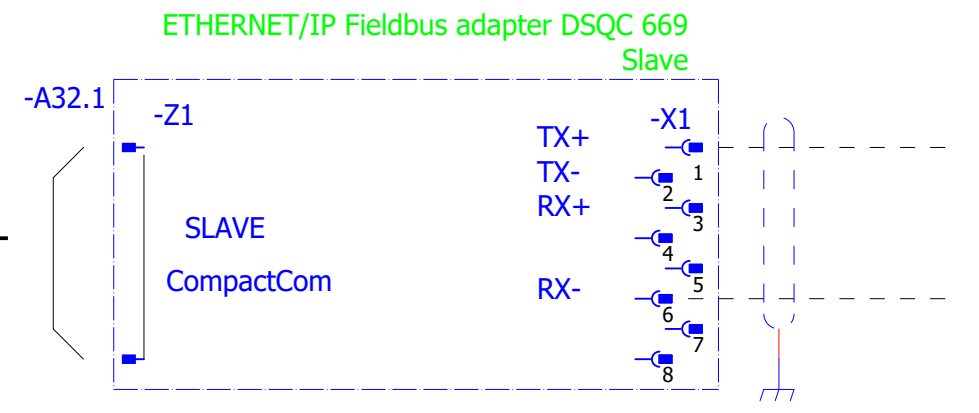
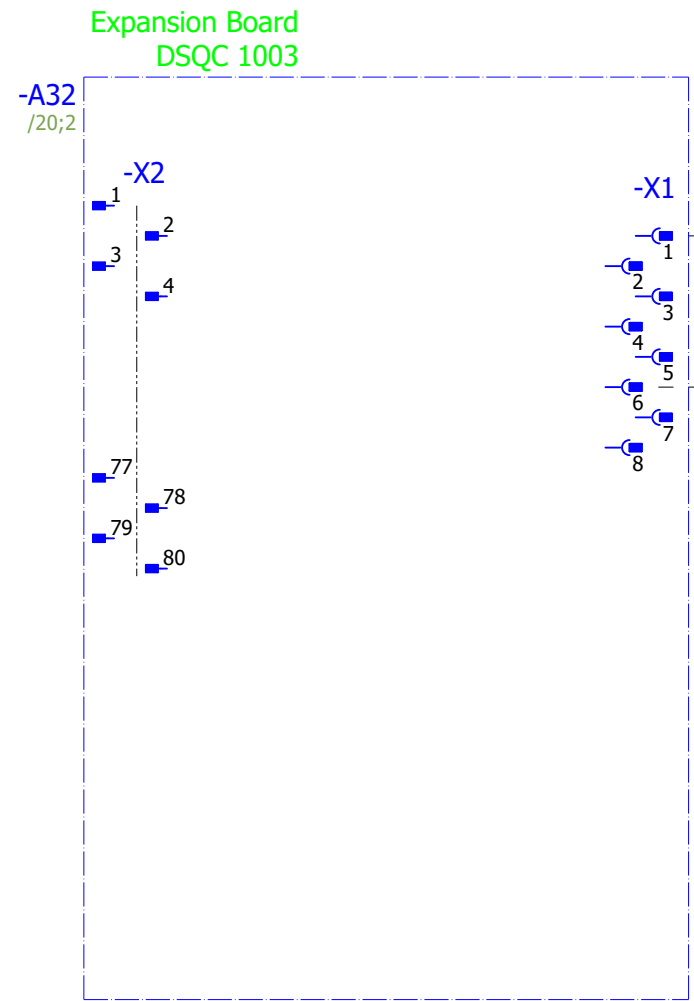
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OPTION & HARNESS TO CUSTOMER I/O

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FIELD BUS ADAPTER A32:
ETHERNET/IP, PROFIBUS and
PROFINET IO

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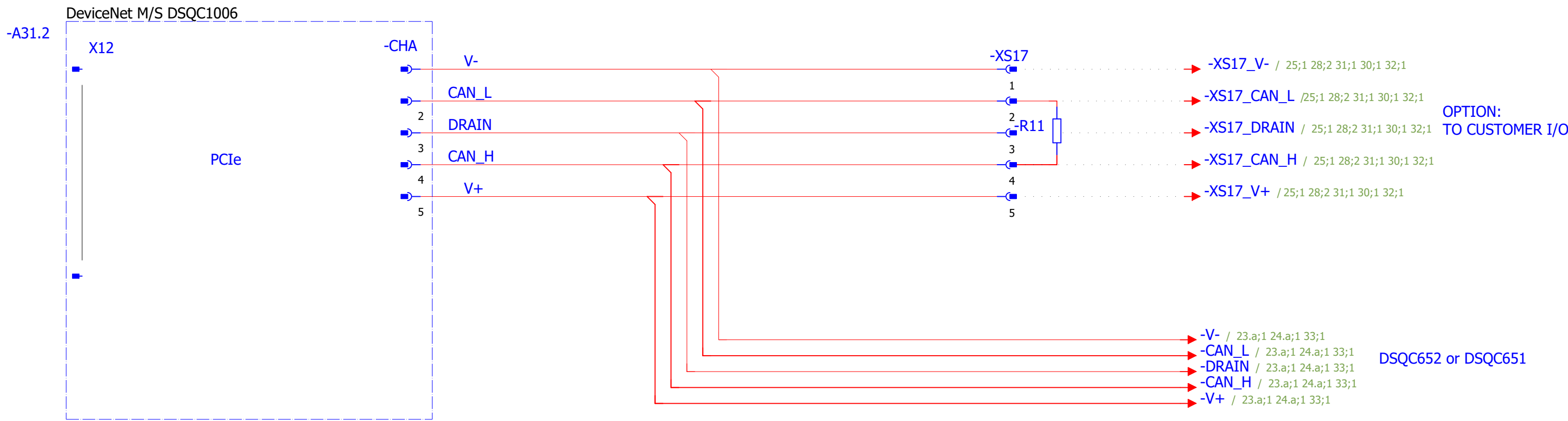
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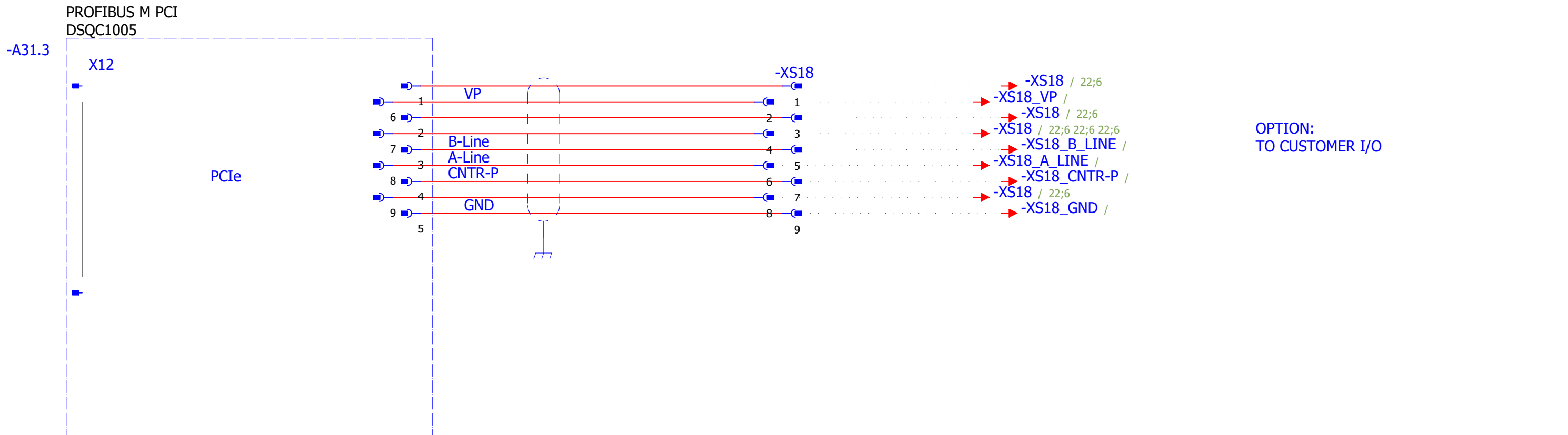
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OPTION:
TO CUSTOMER I/O

DSQC652 or DSQC651



OPTION:
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DEVICENET A31.2 DSQC1006 / PROFIBUS A31.3 DSQC1005

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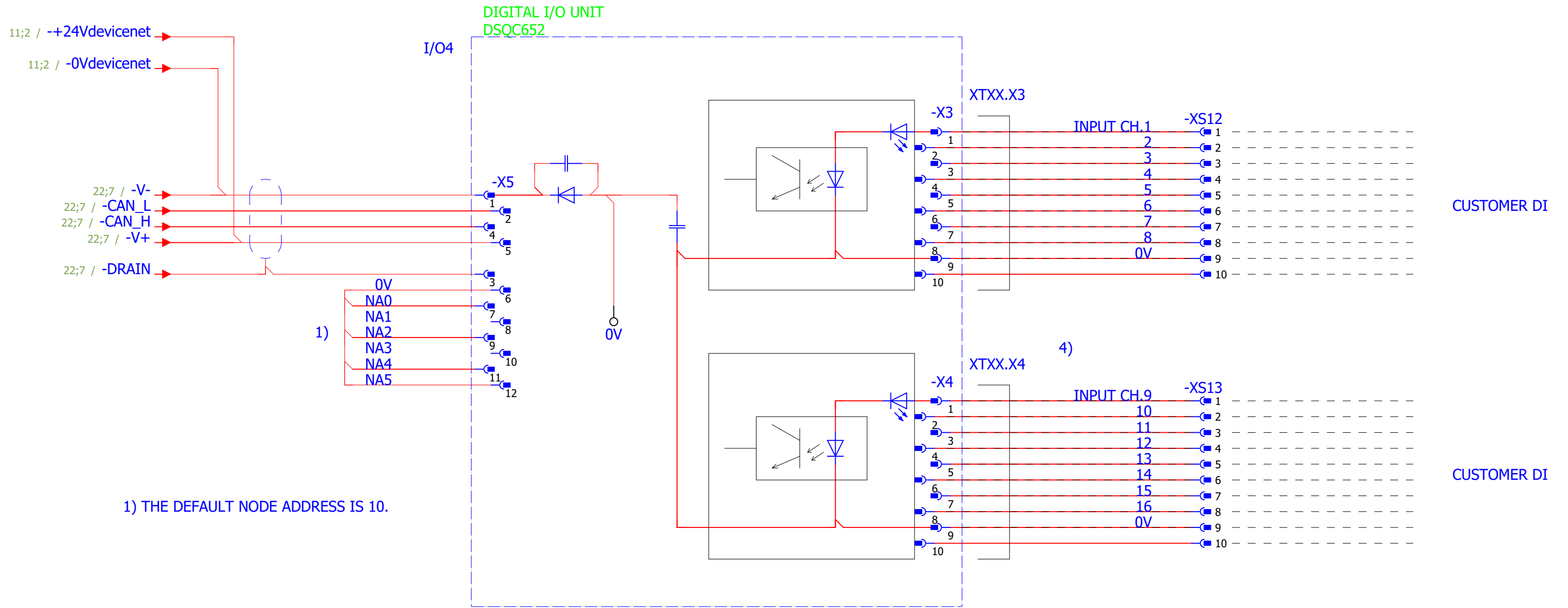
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DIGITAL I/O UNIT INPUT

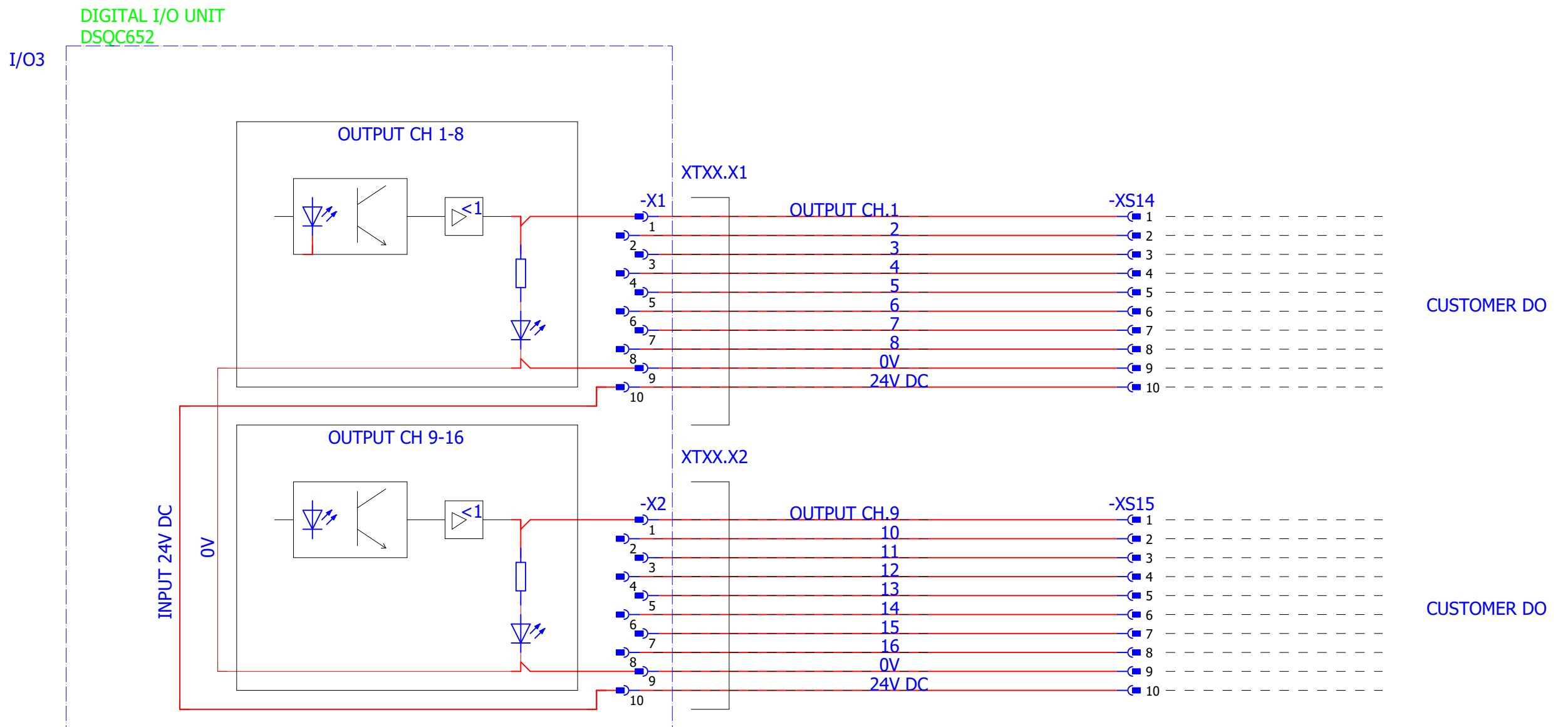
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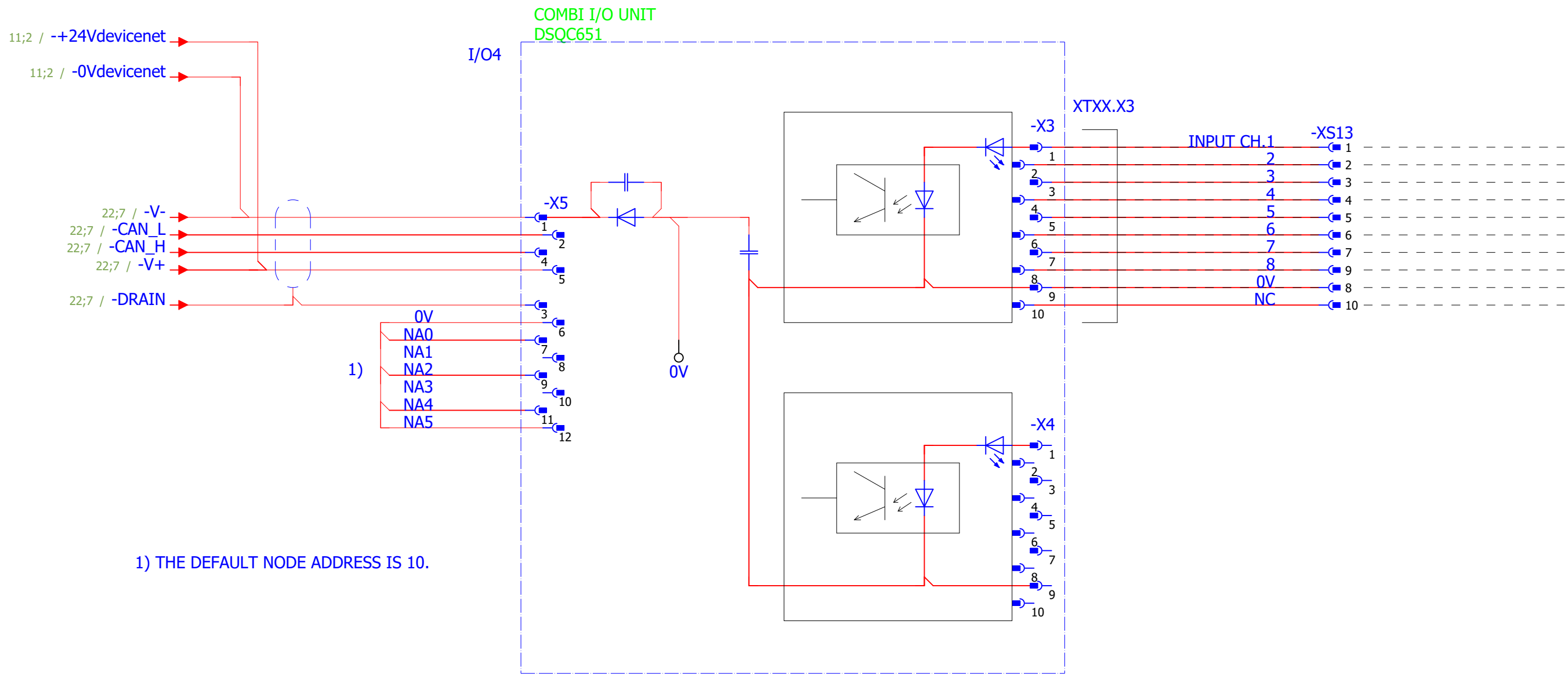
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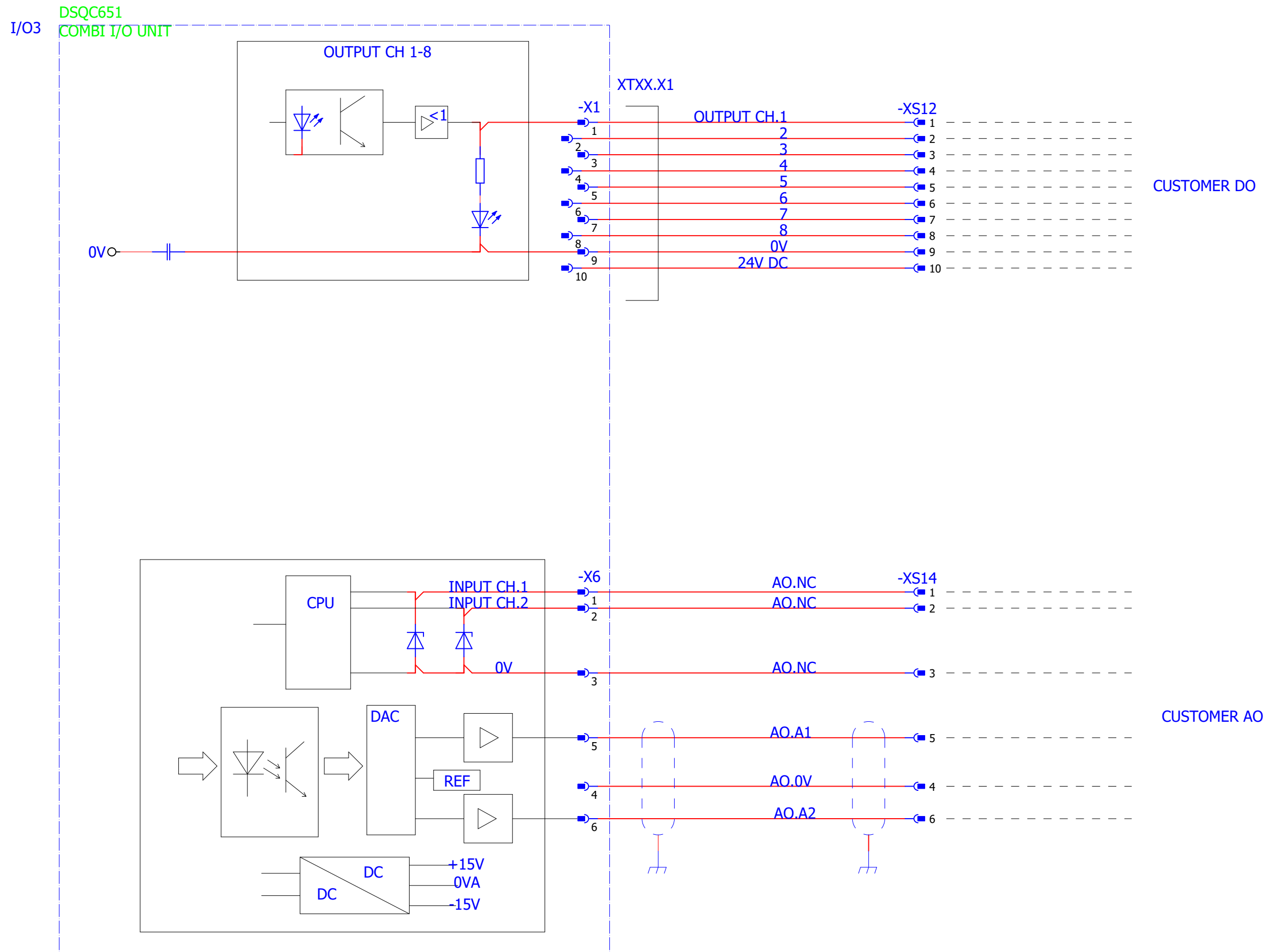
1) THE DEFAULT NODE ADDRESS IS 10.

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 COMBI I/O UNIT INPUT

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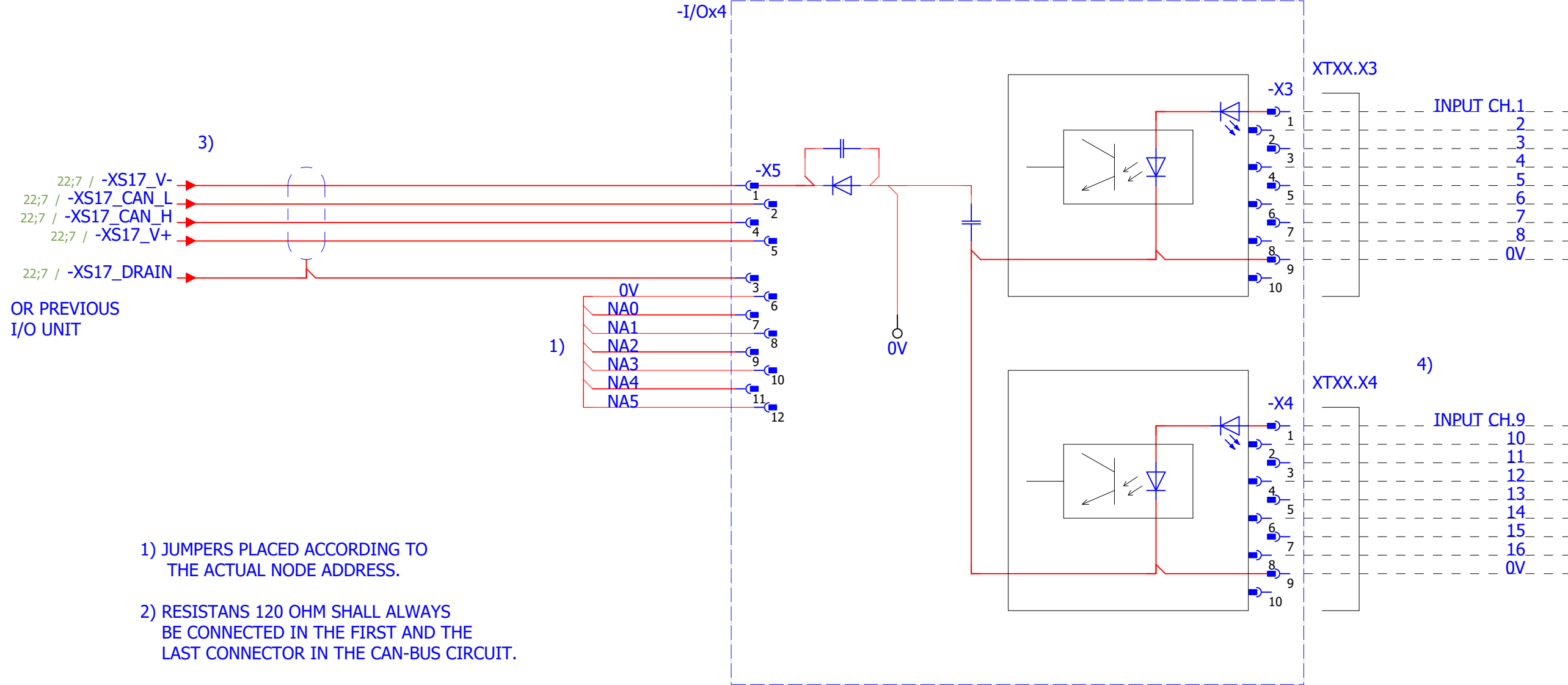
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opt. 816
opt. 817
DSQC 651& 652

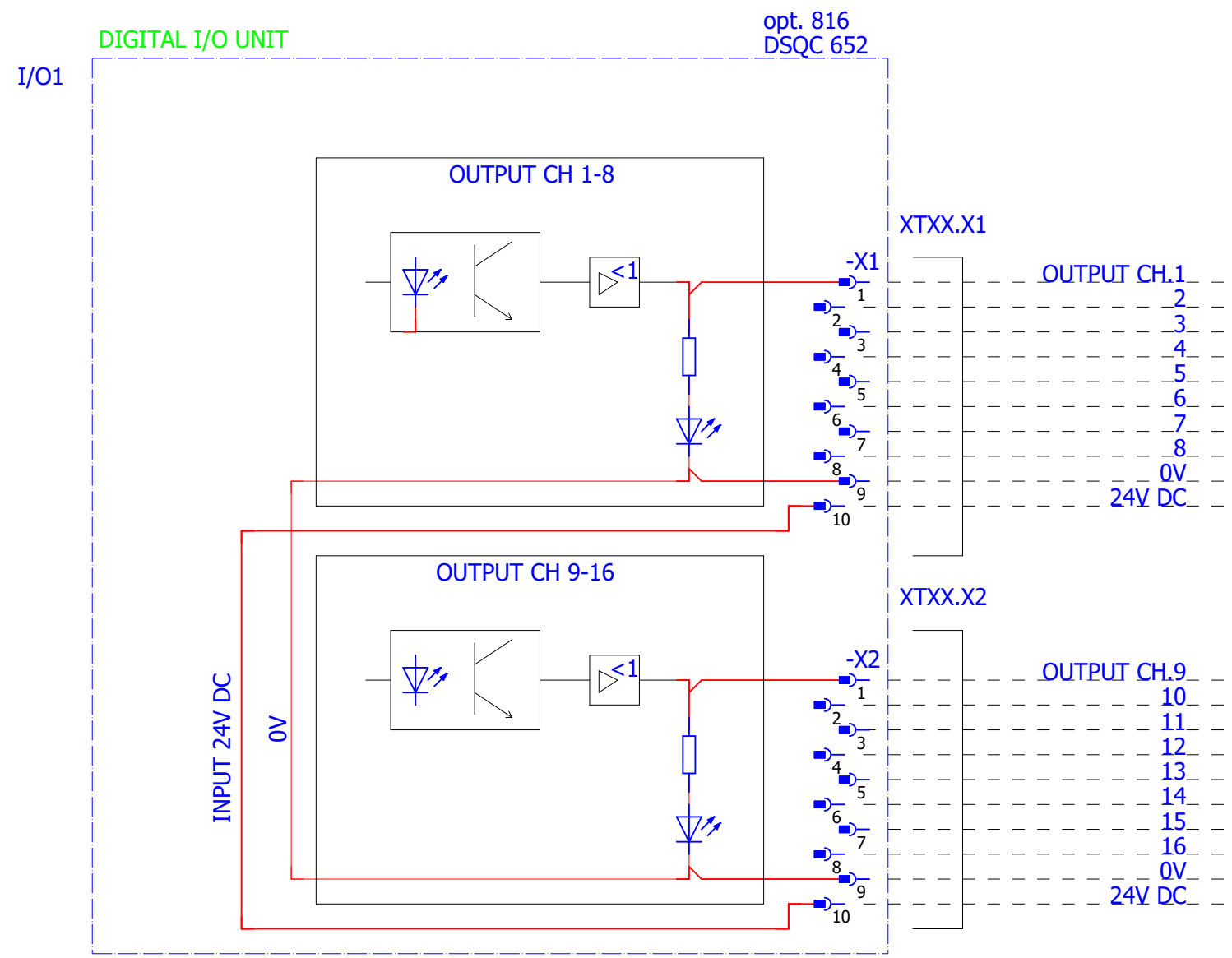


3)
22;7 / -XS17_V-
22;7 / -XS17_CAN_L
22;7 / -XS17_CAN_H
22;7 / -XS17_V+
22;7 / -XS17_DRAIN
OR PREVIOUS
I/O UNIT

1)
0V
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NA5

- 1) JUMPERS PLACED ACCORDING TO THE ACTUAL NODE ADDRESS.
- 2) RESISTANS 120 OHM SHALL ALWAYS BE CONNECTED IN THE FIRST AND THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.
- 3) CONNECTED IN THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.
- 4) ONLY FOR DIGITAL I/O DSQC 652.

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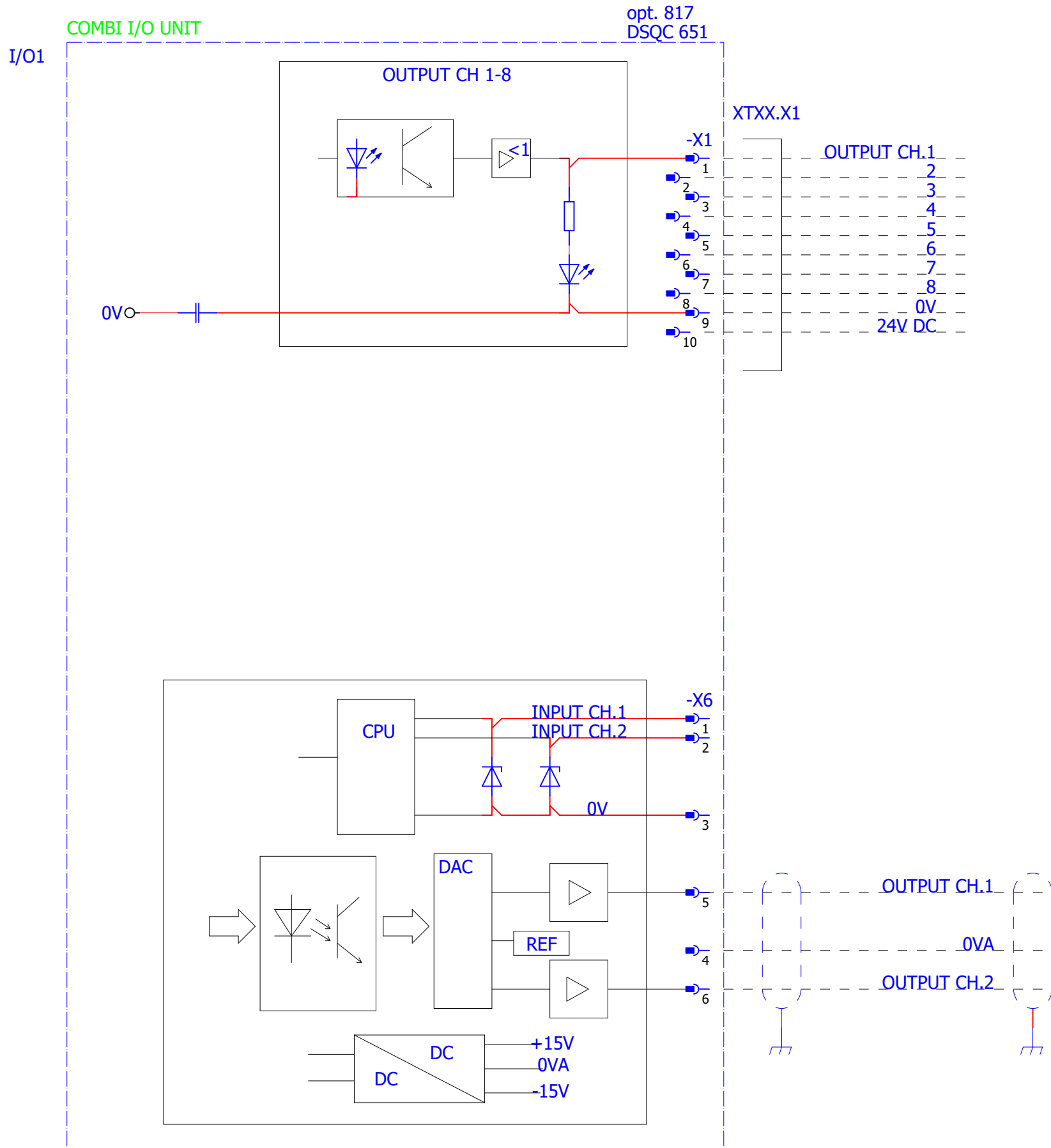
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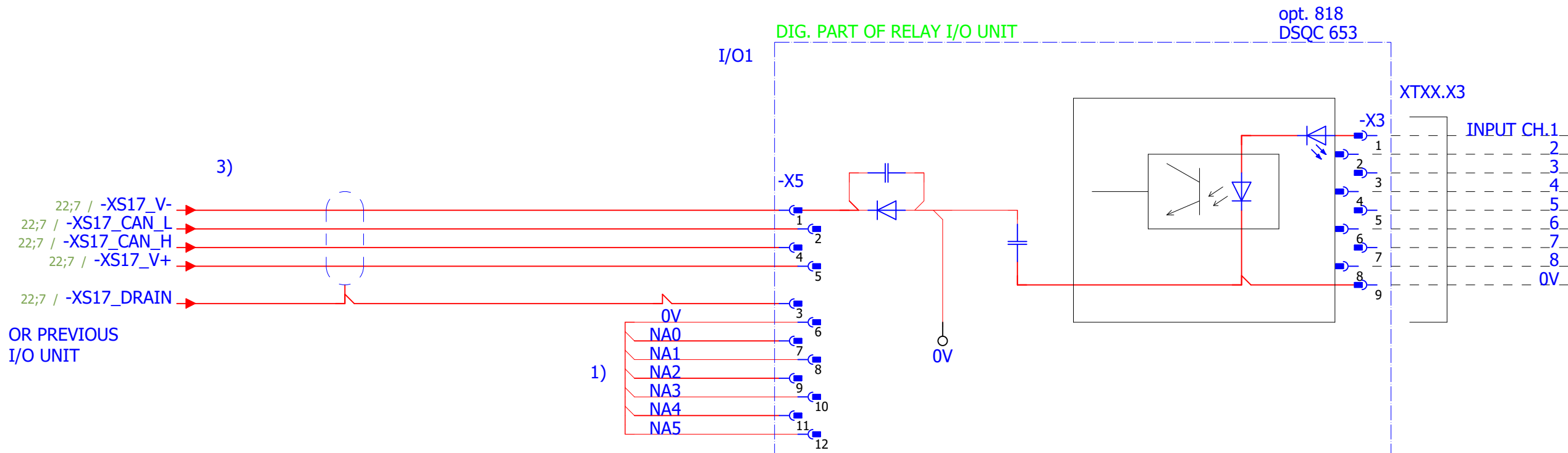
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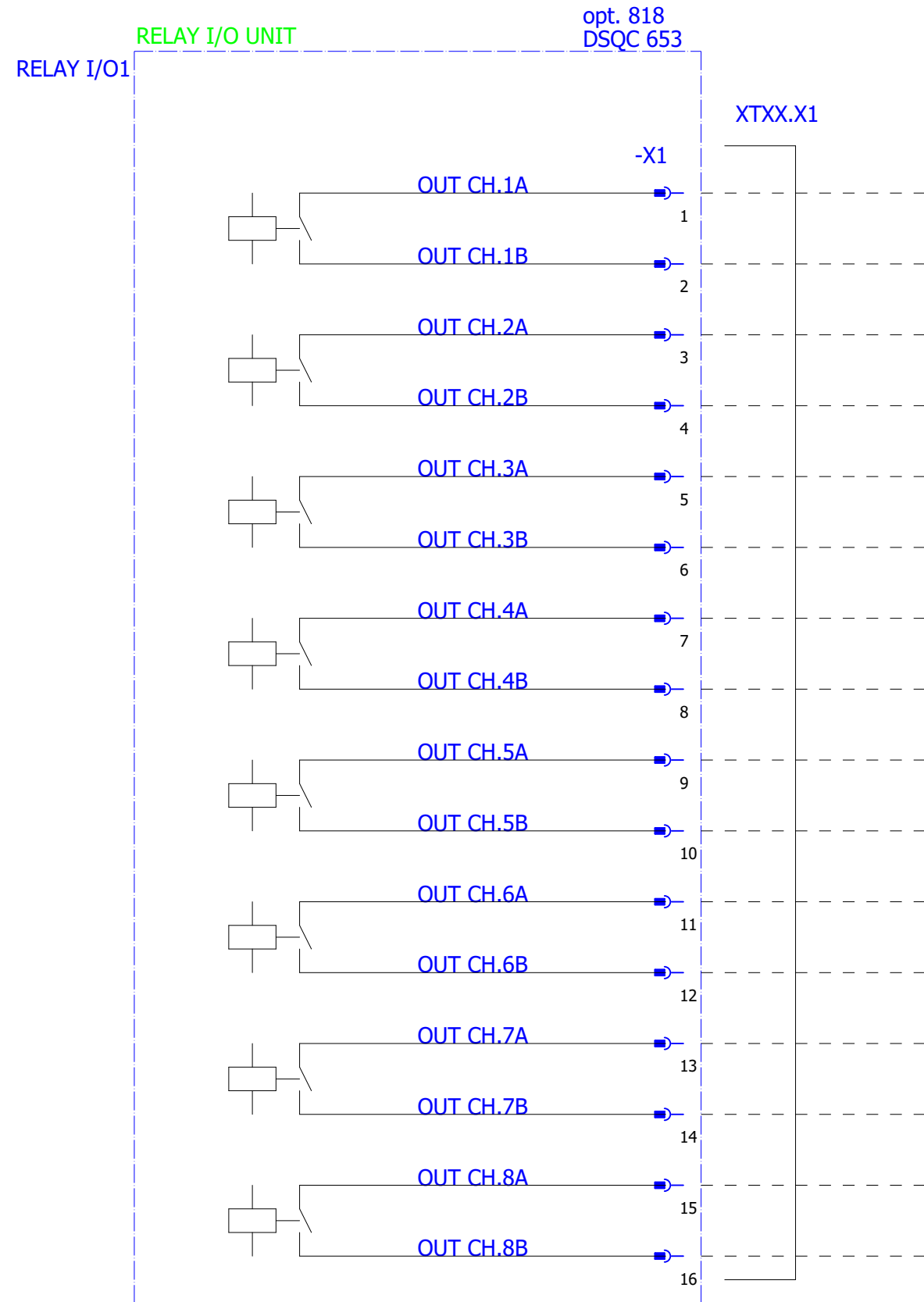
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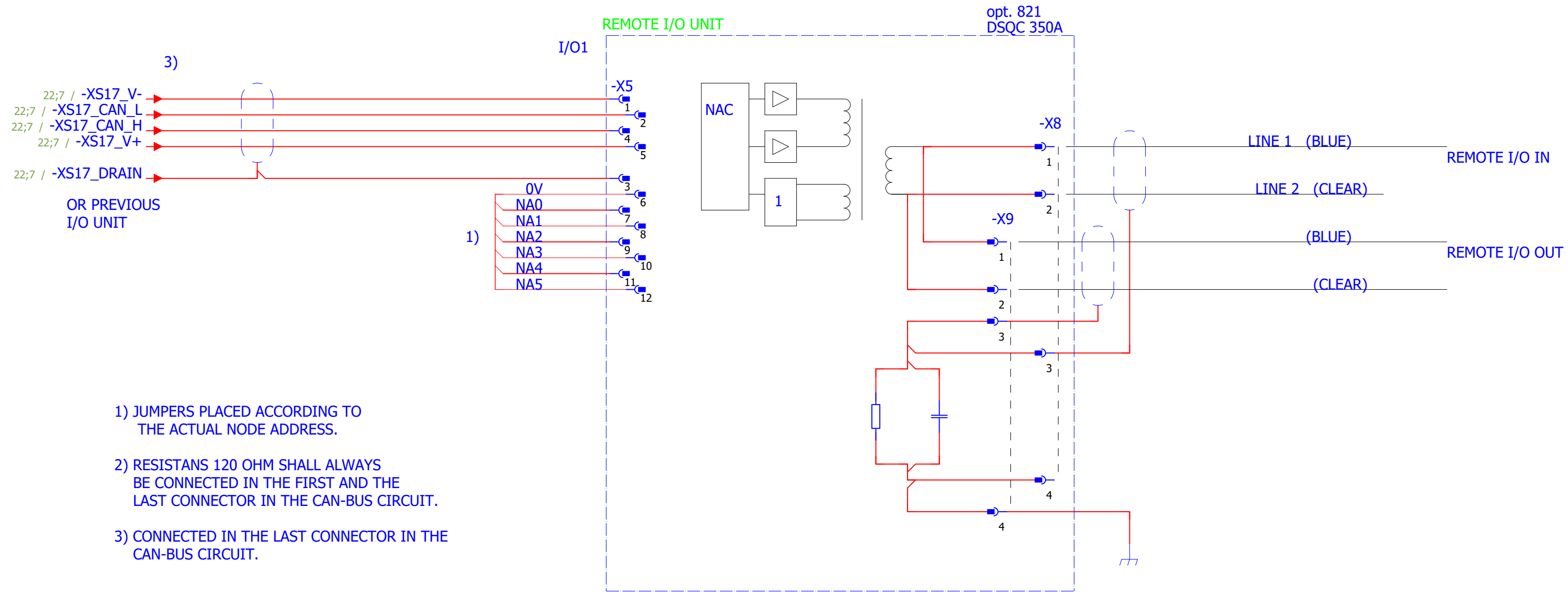
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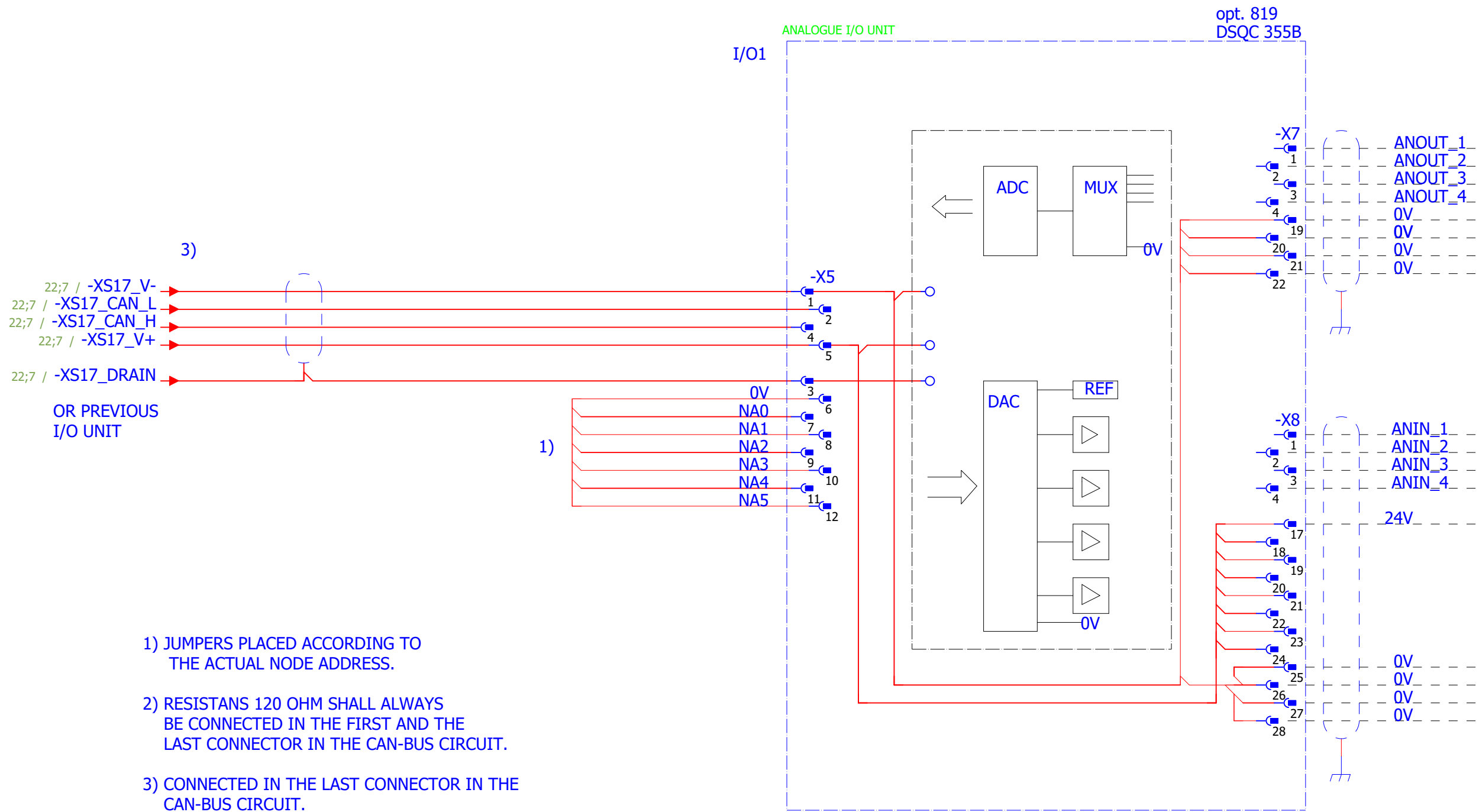
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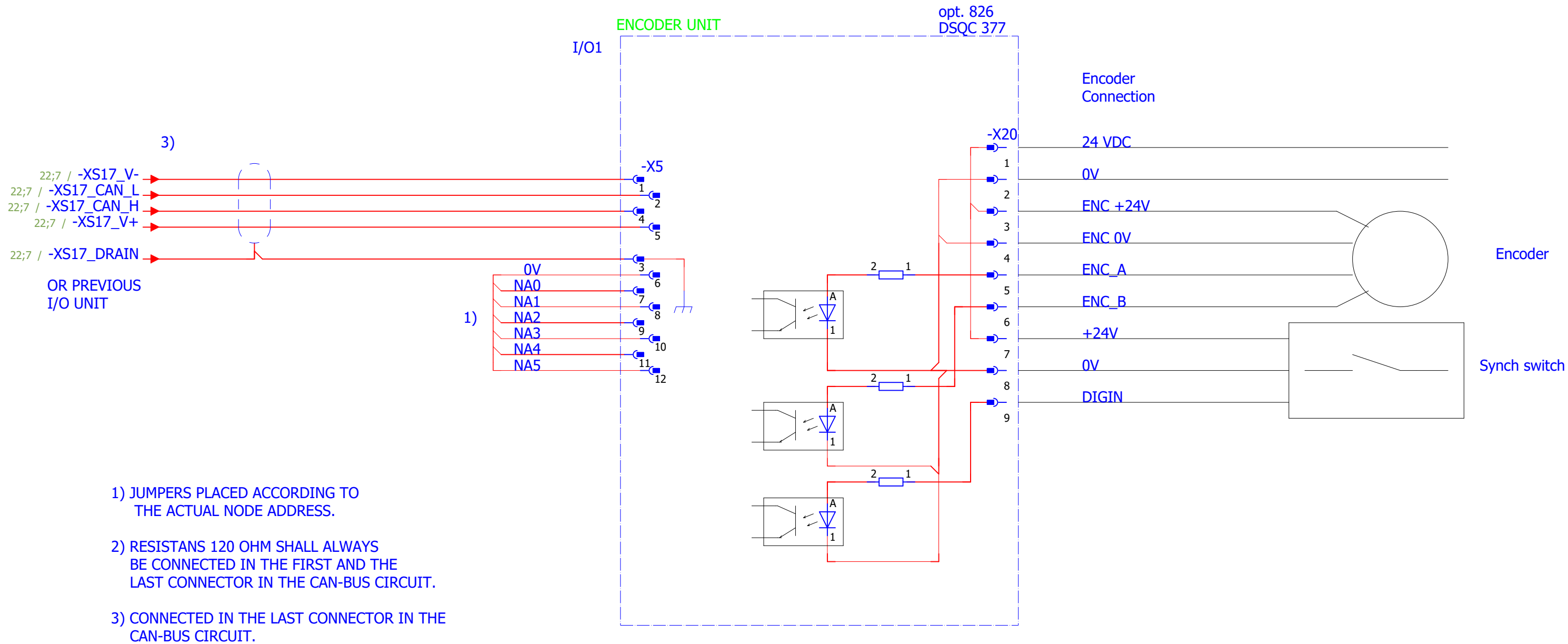
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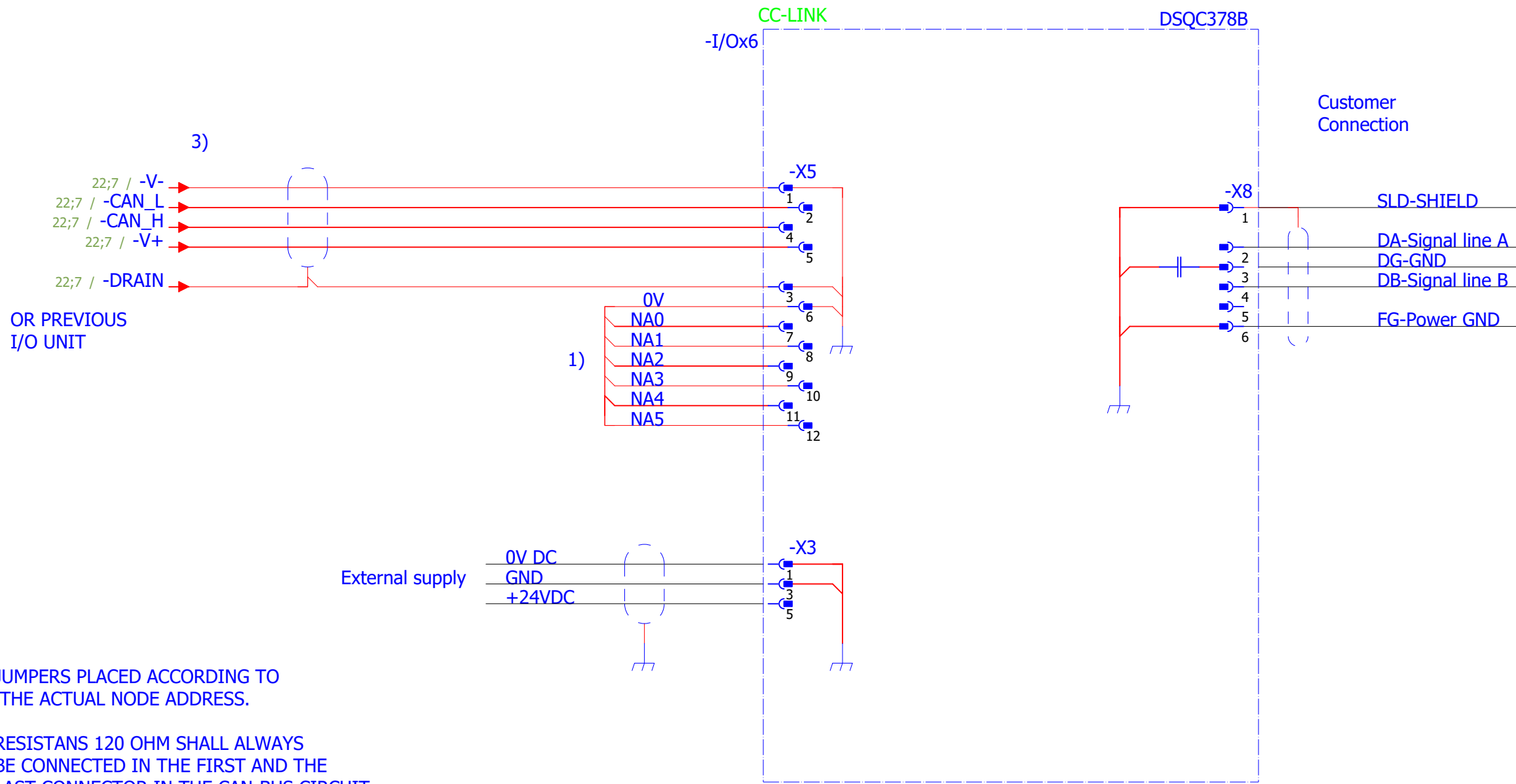
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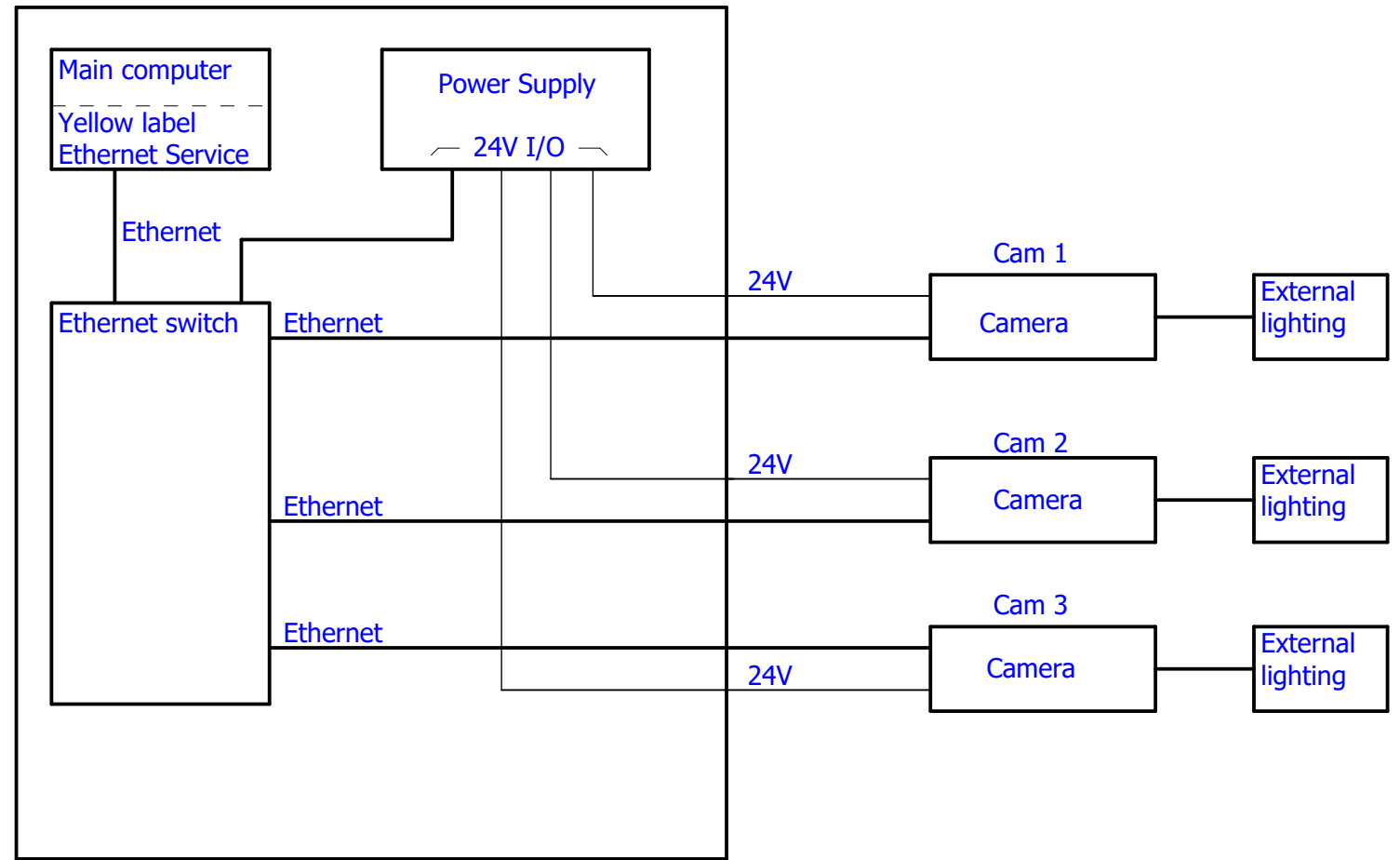
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Robot controller



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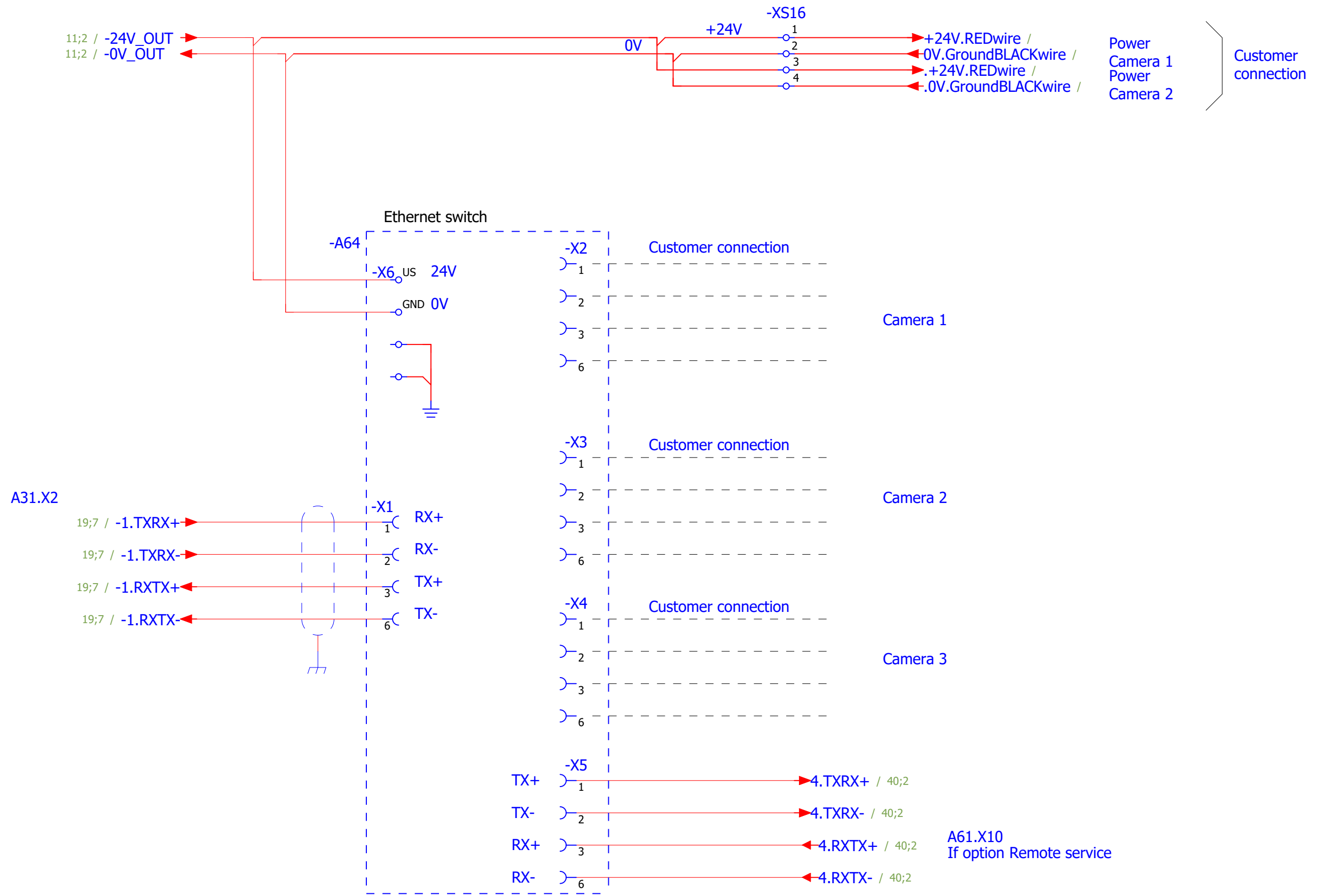


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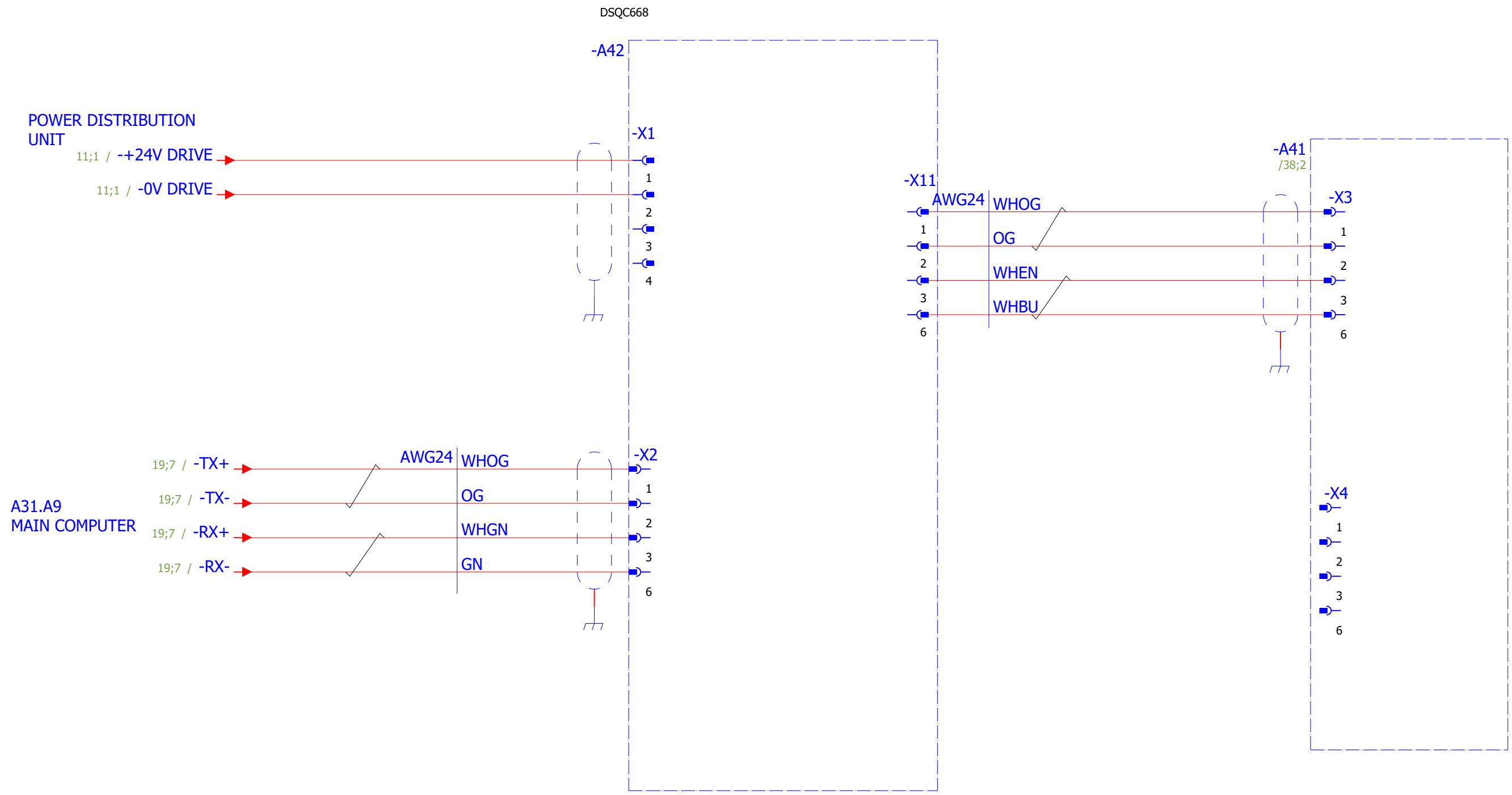
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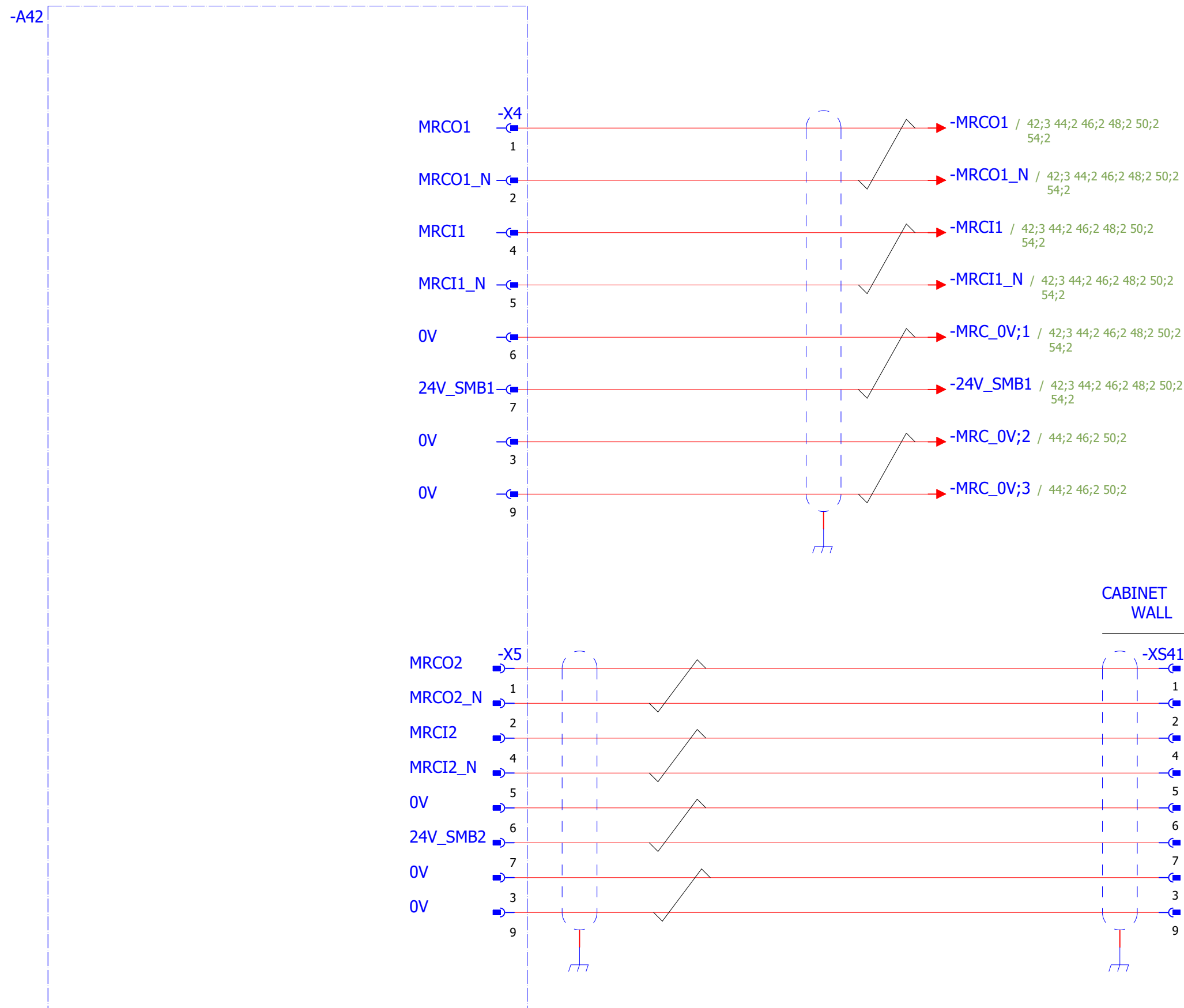
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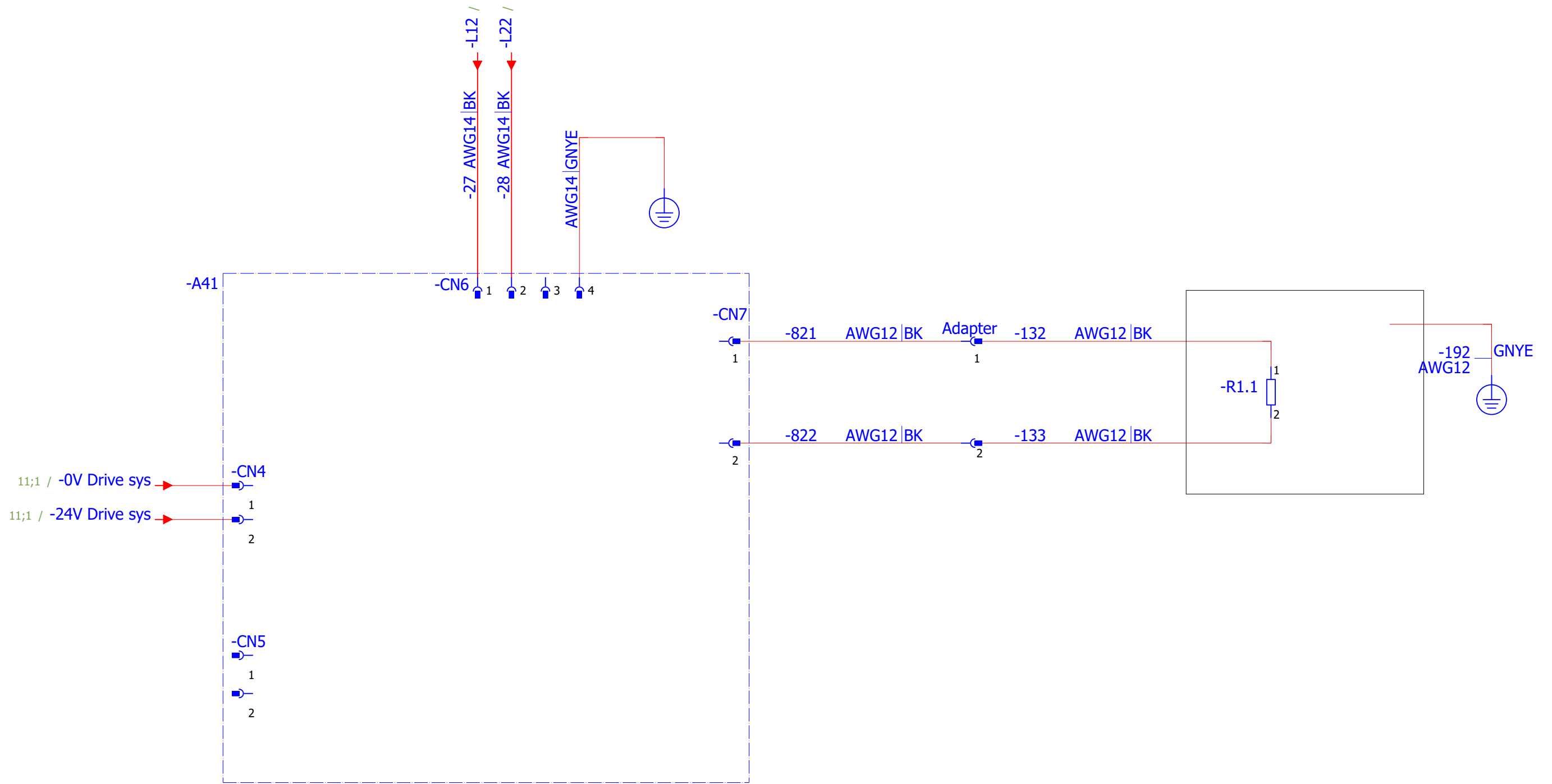
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29	

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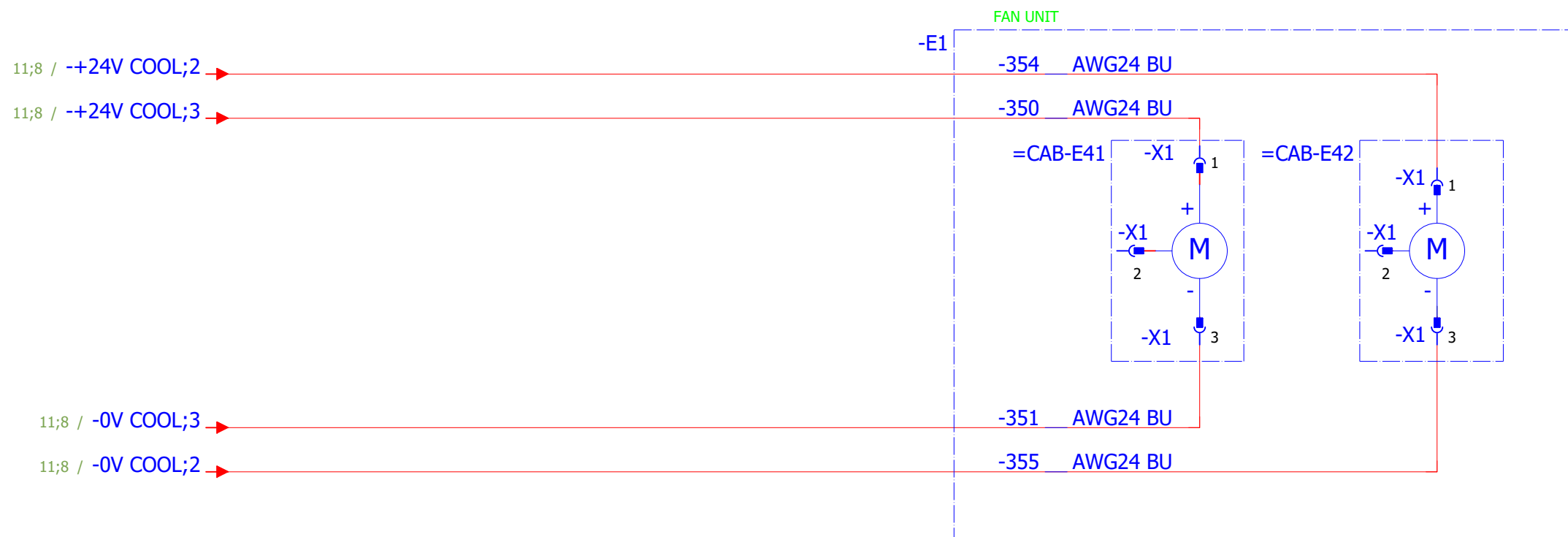
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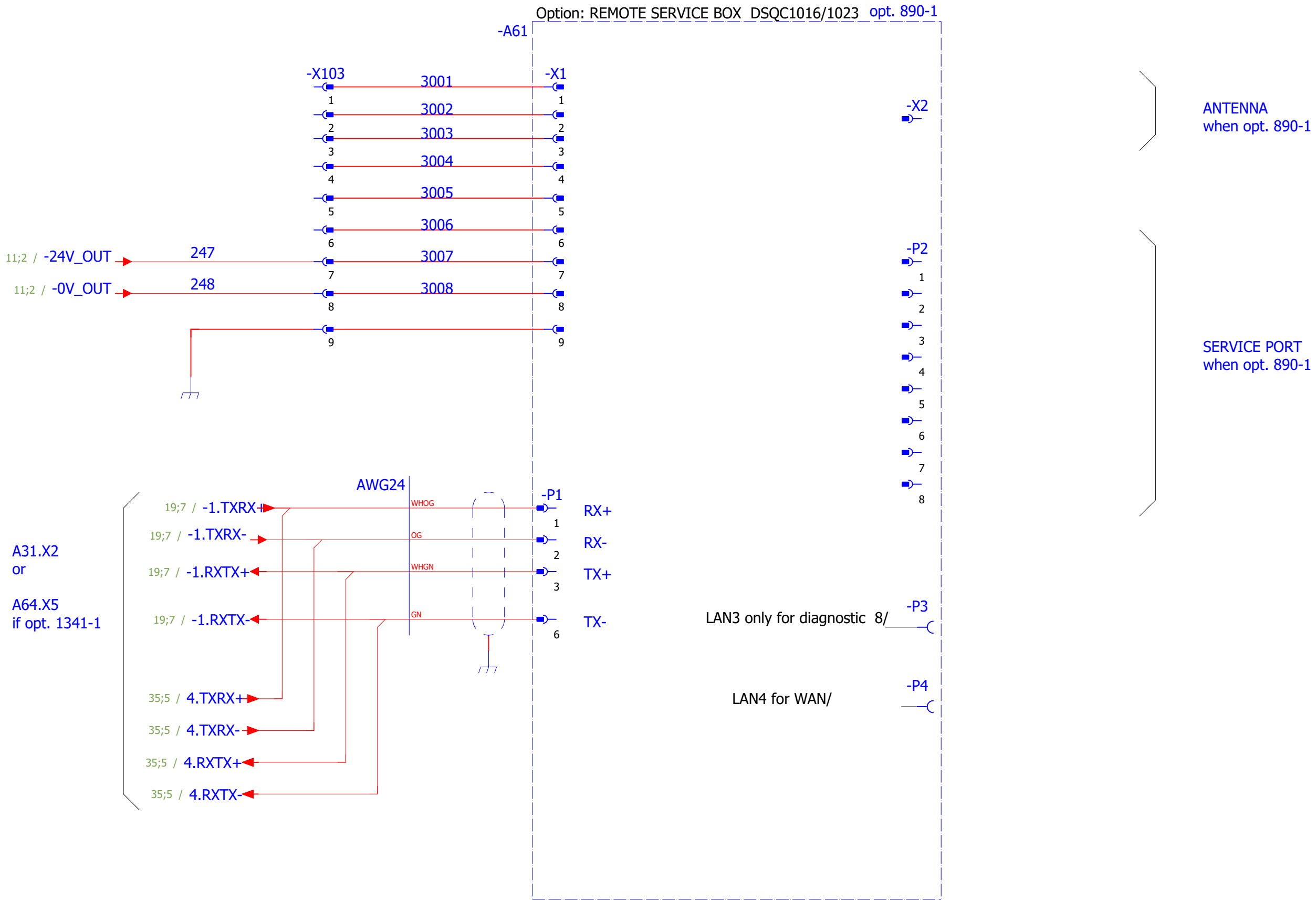
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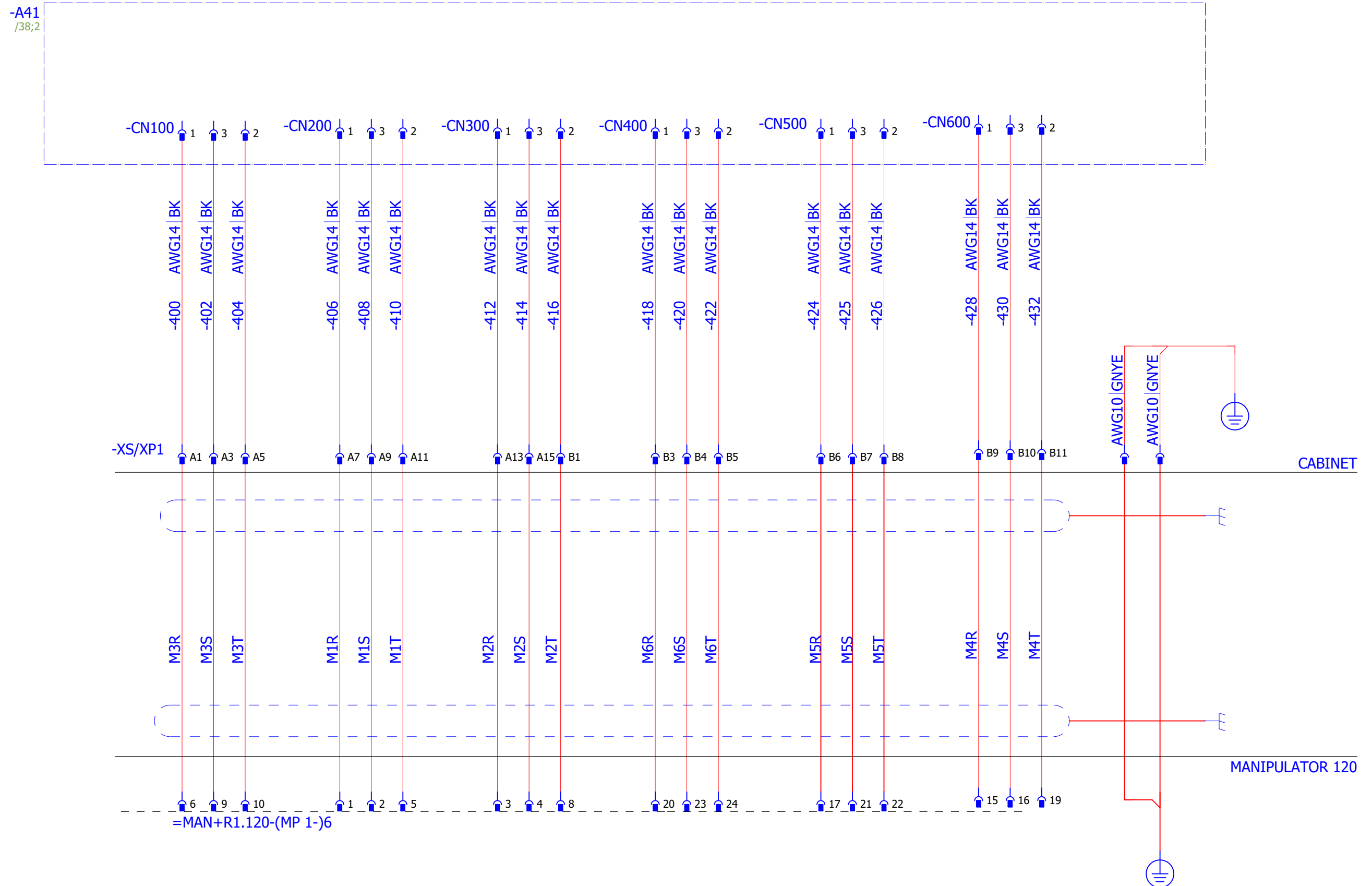
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IRB 120 cabinet module



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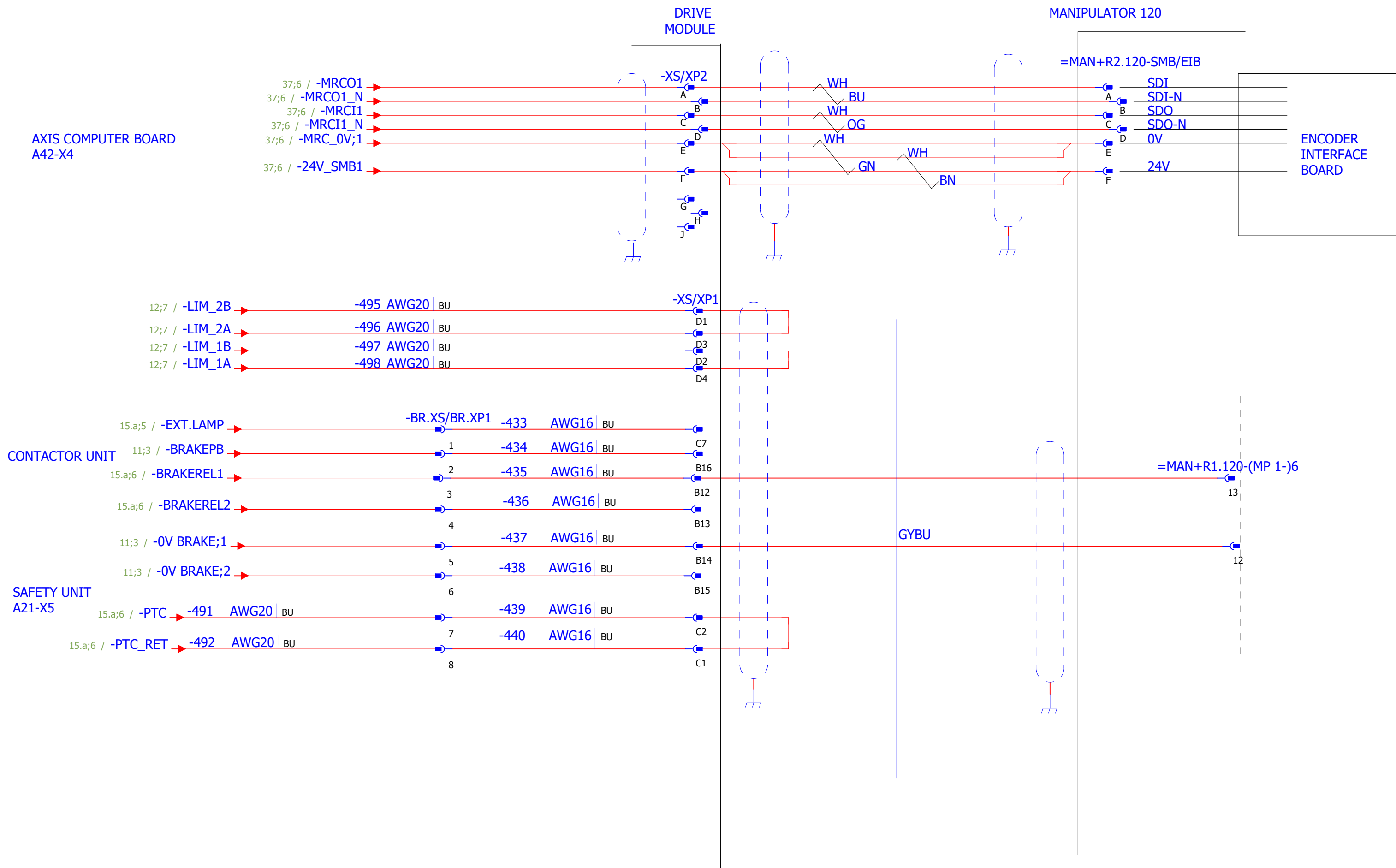
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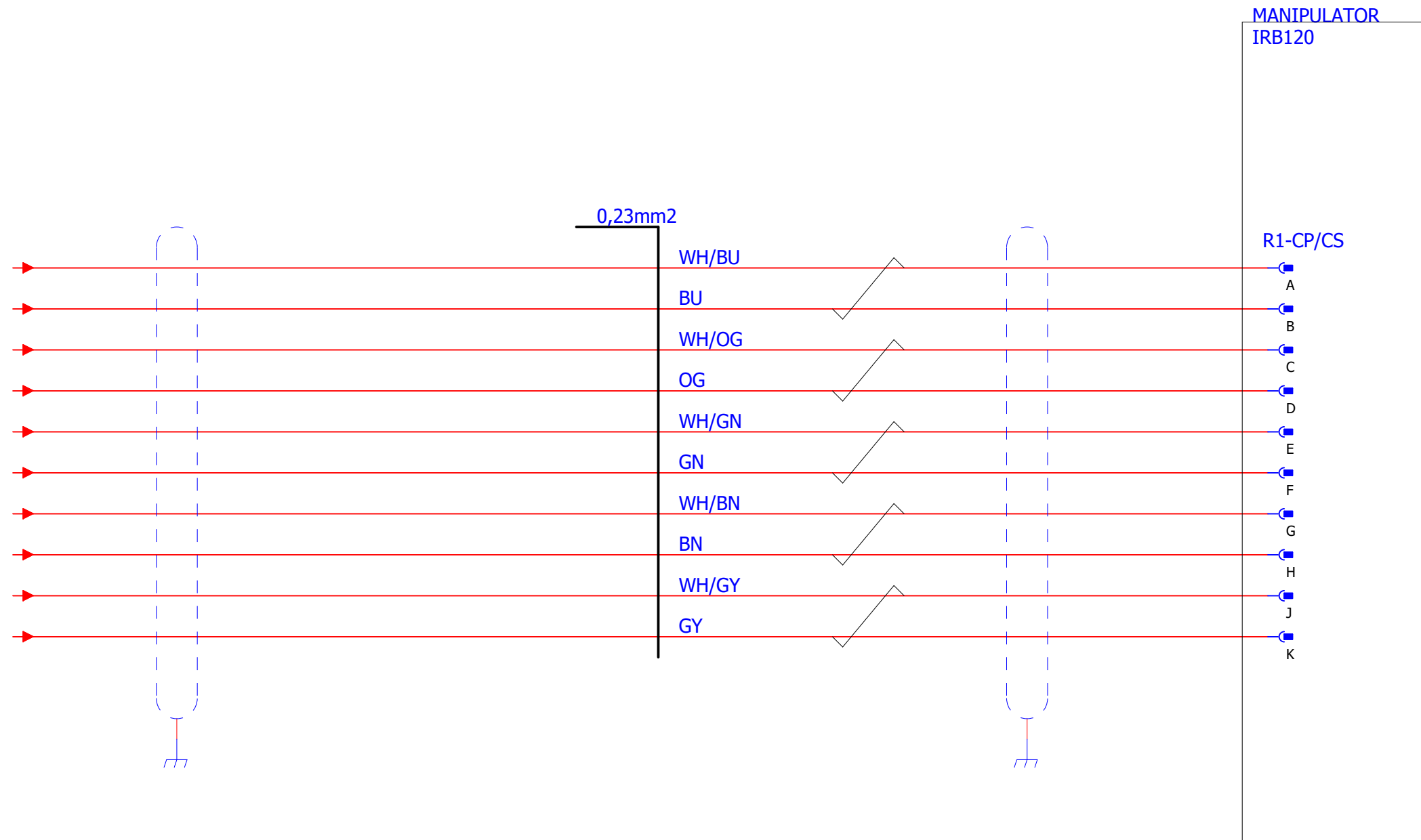
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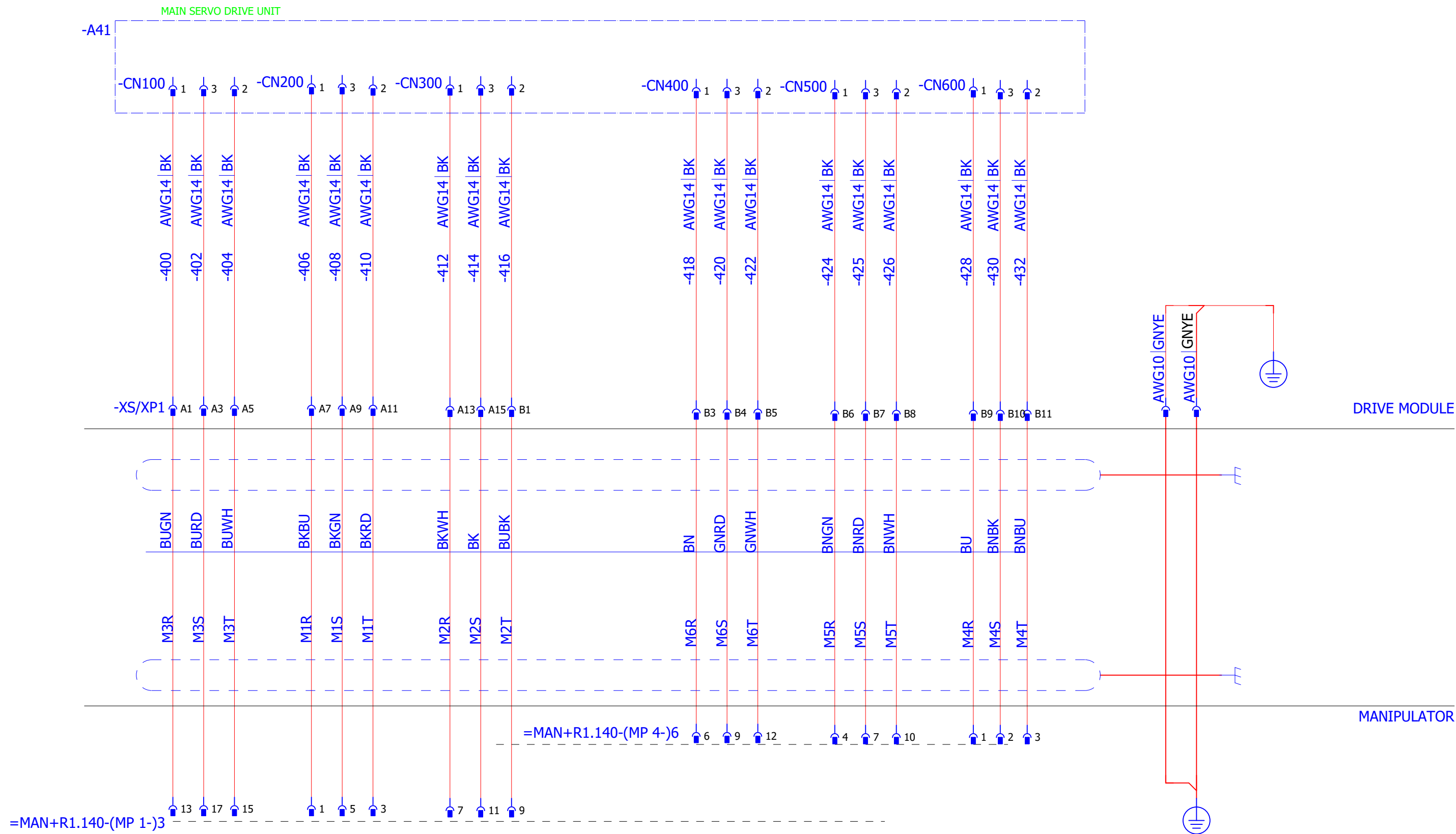
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IRB 140 cabinet module



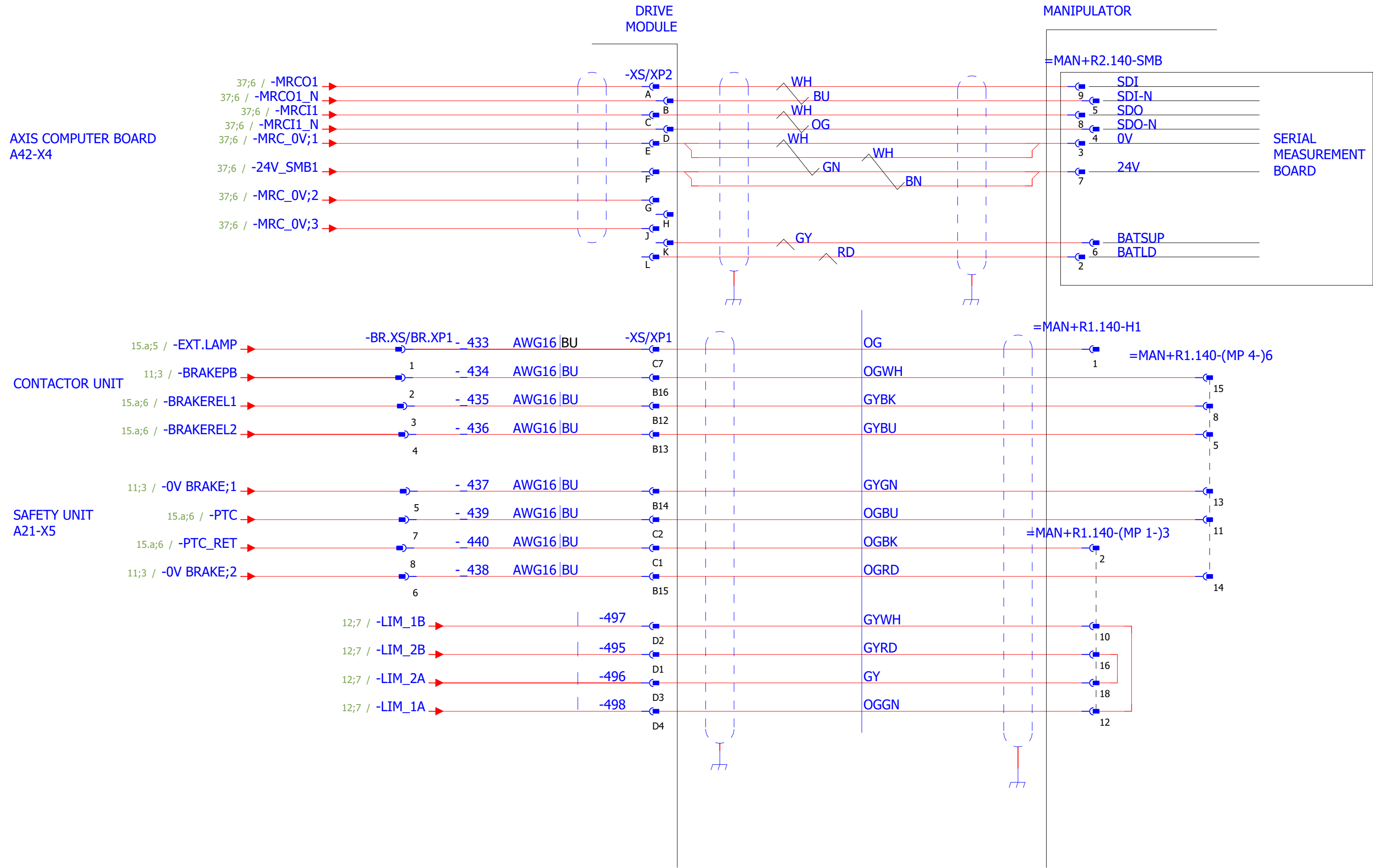
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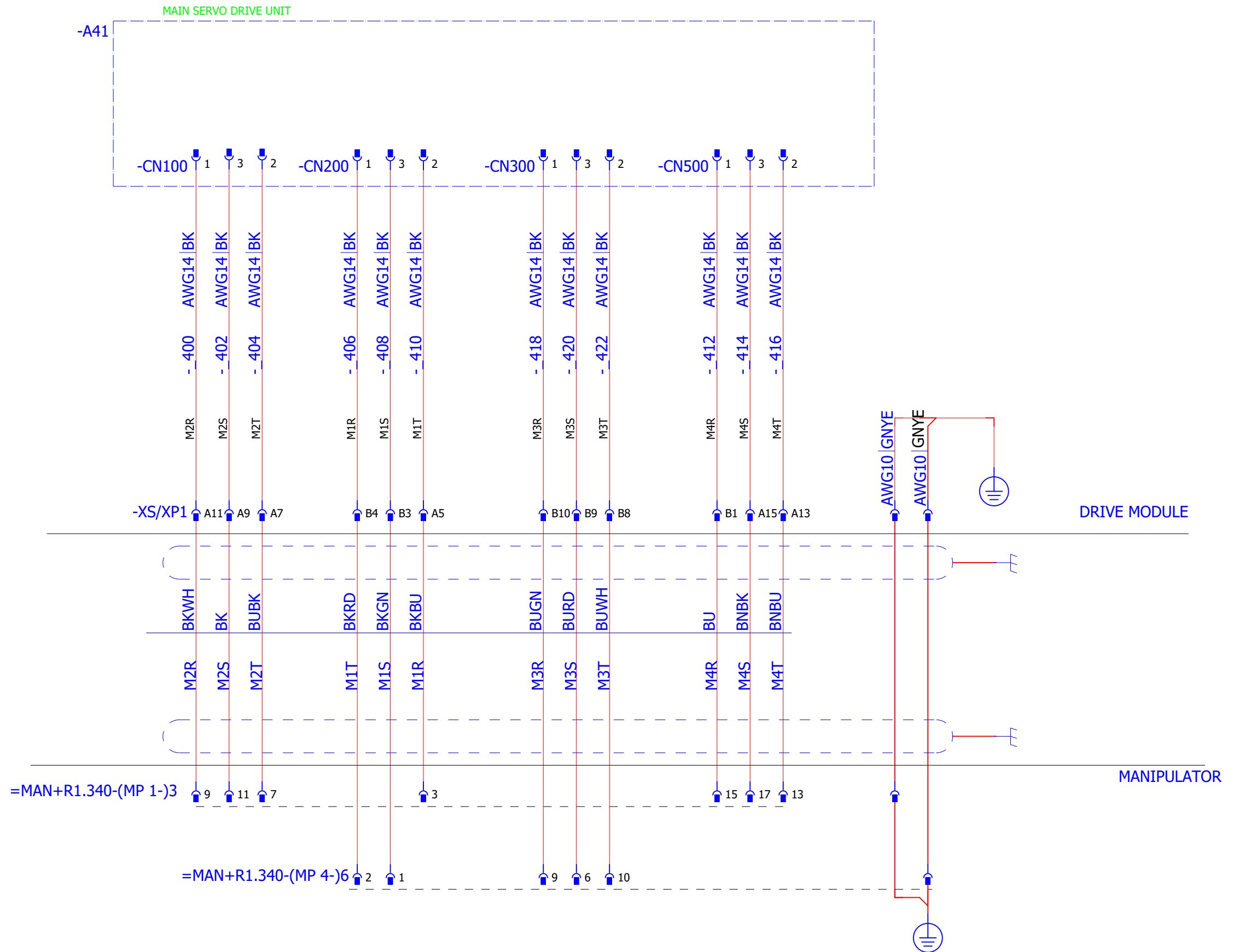
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IRB 360 cabinet module



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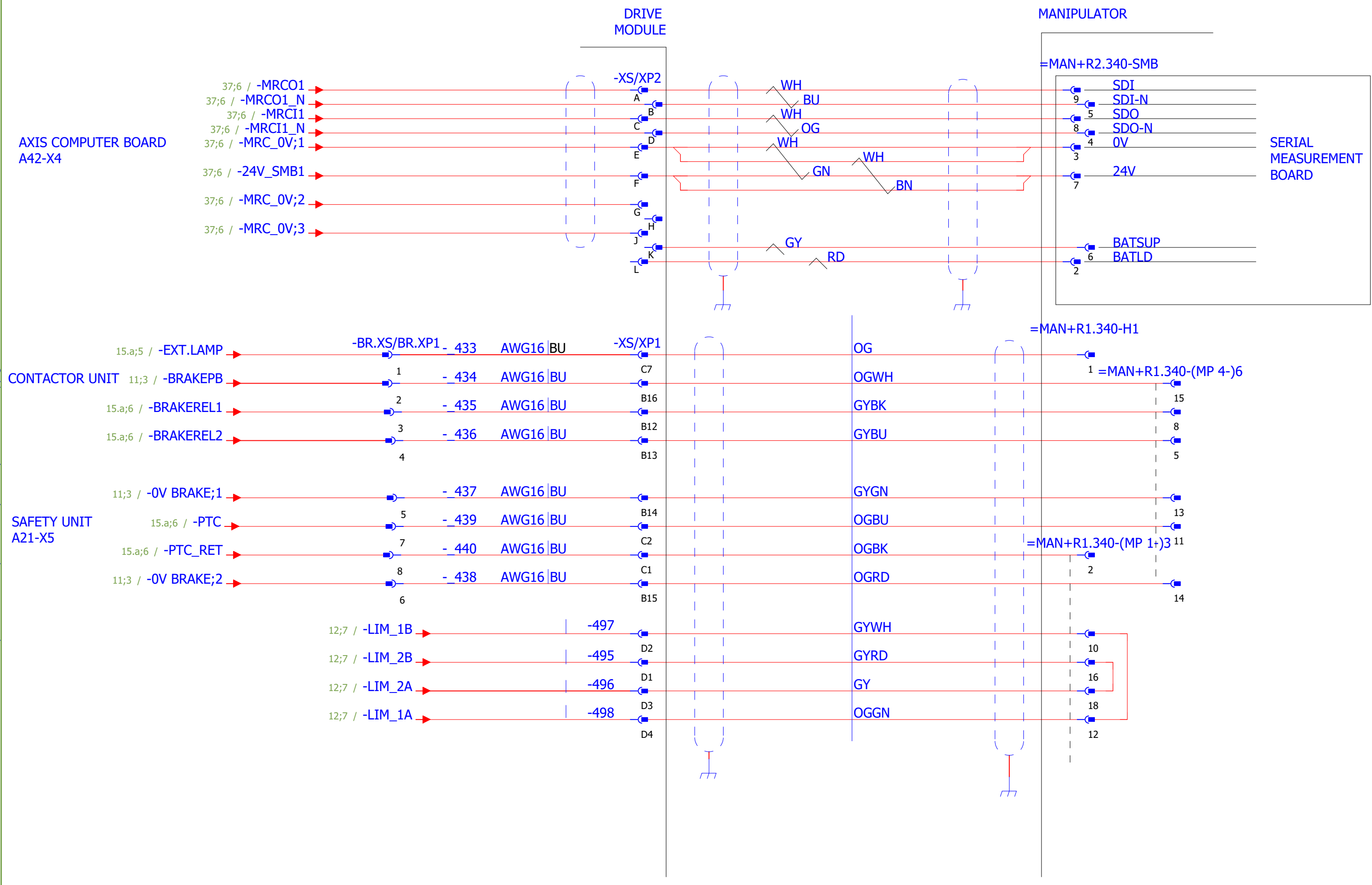
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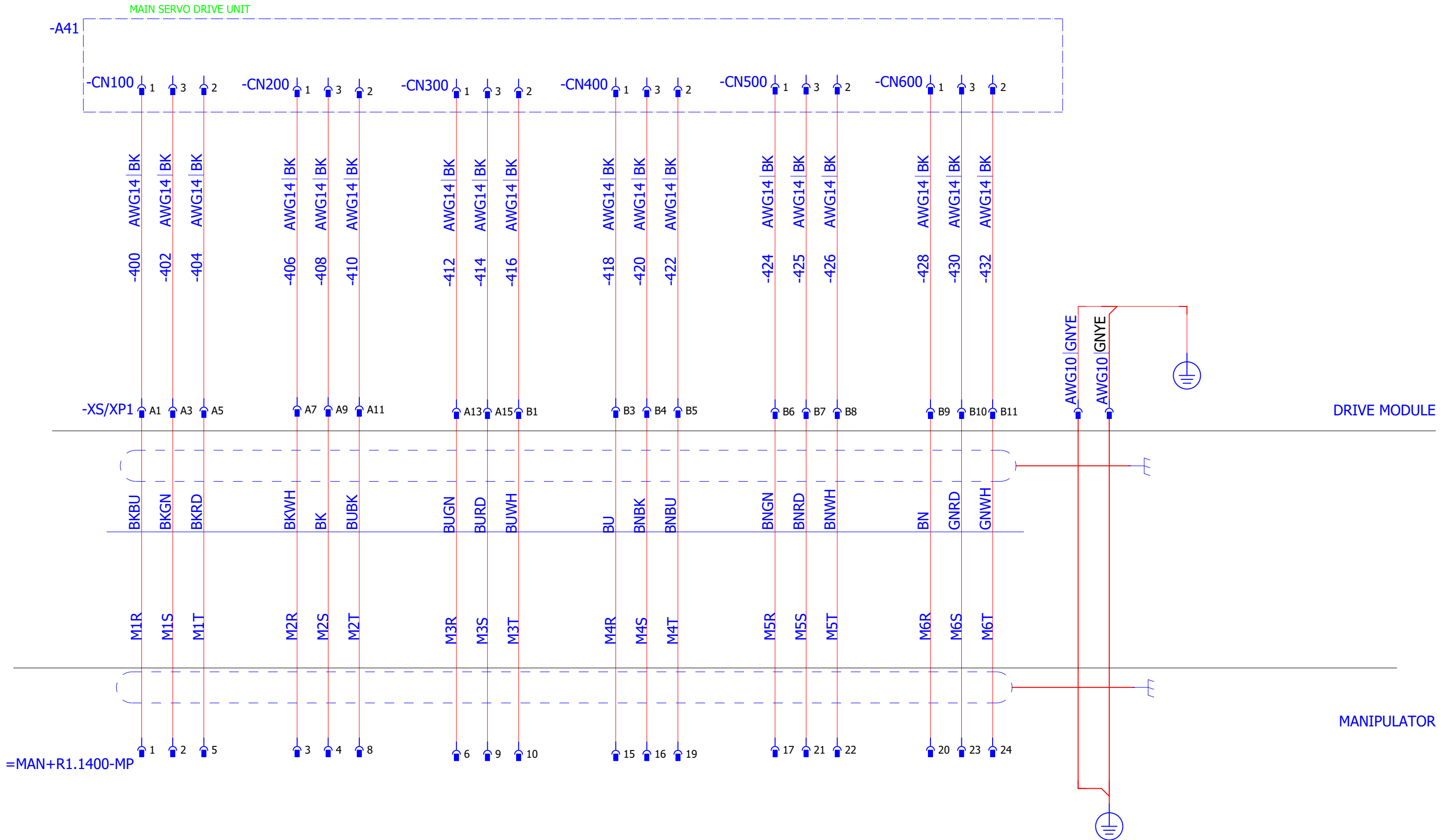
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IRB 1200 cabinet module



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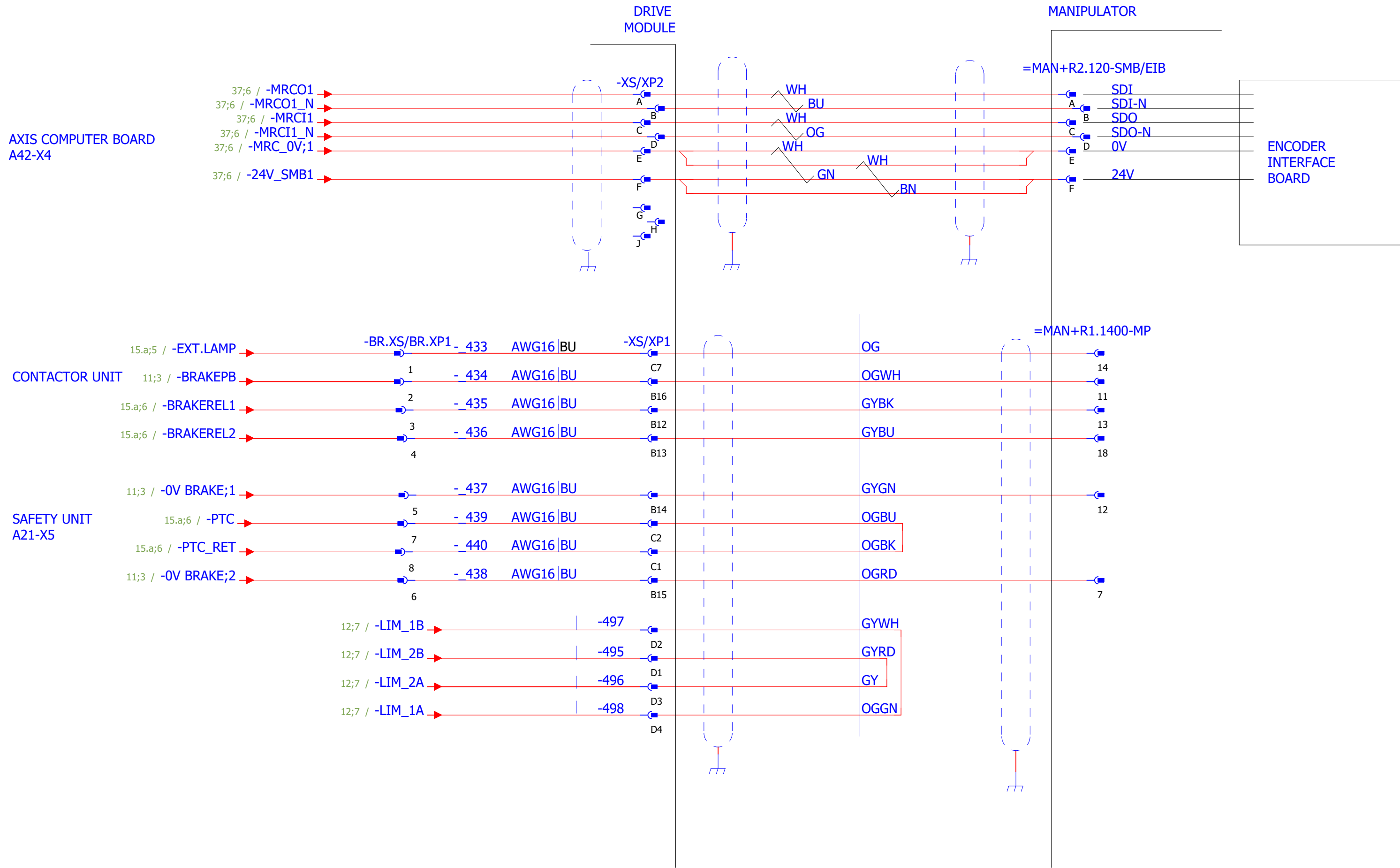


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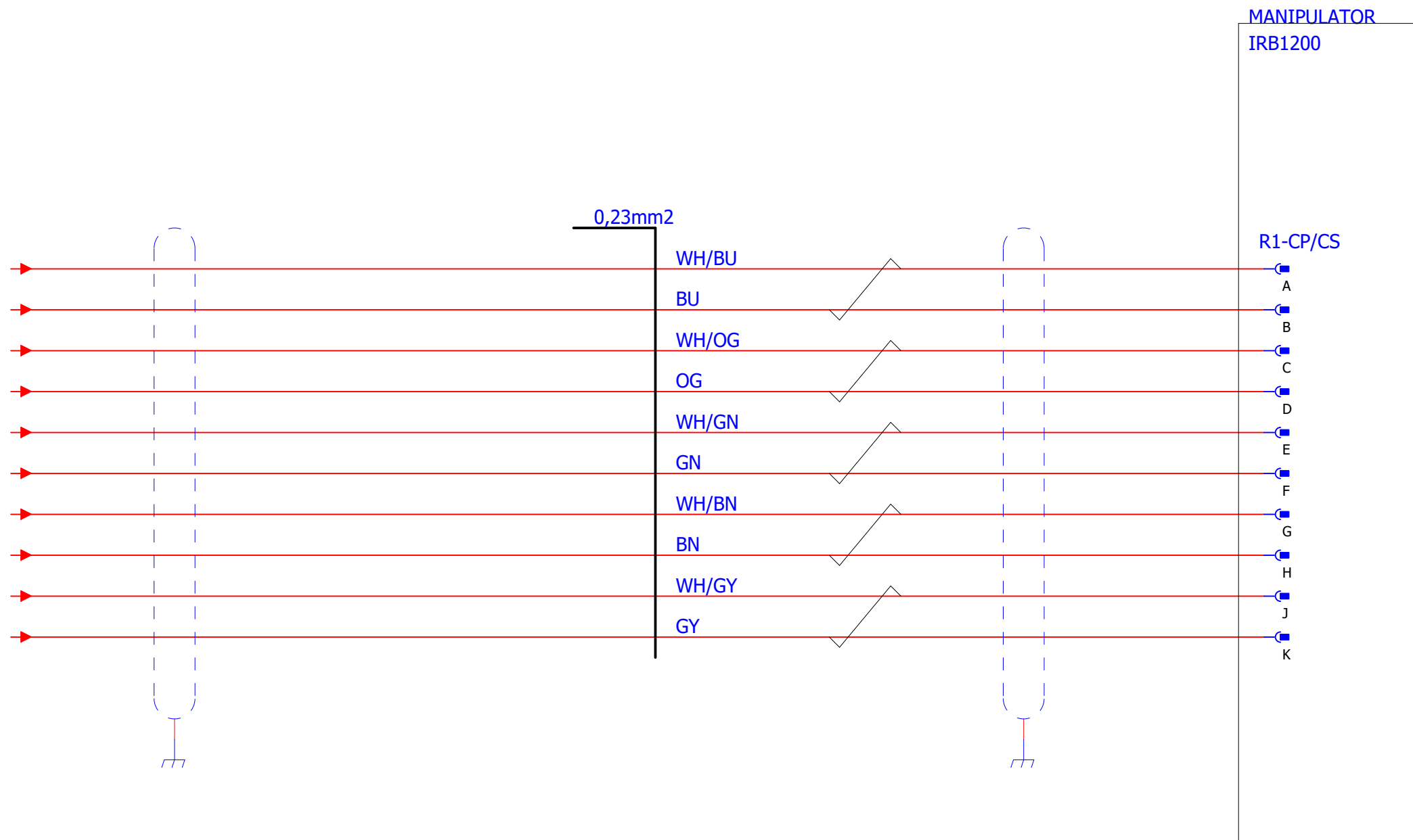
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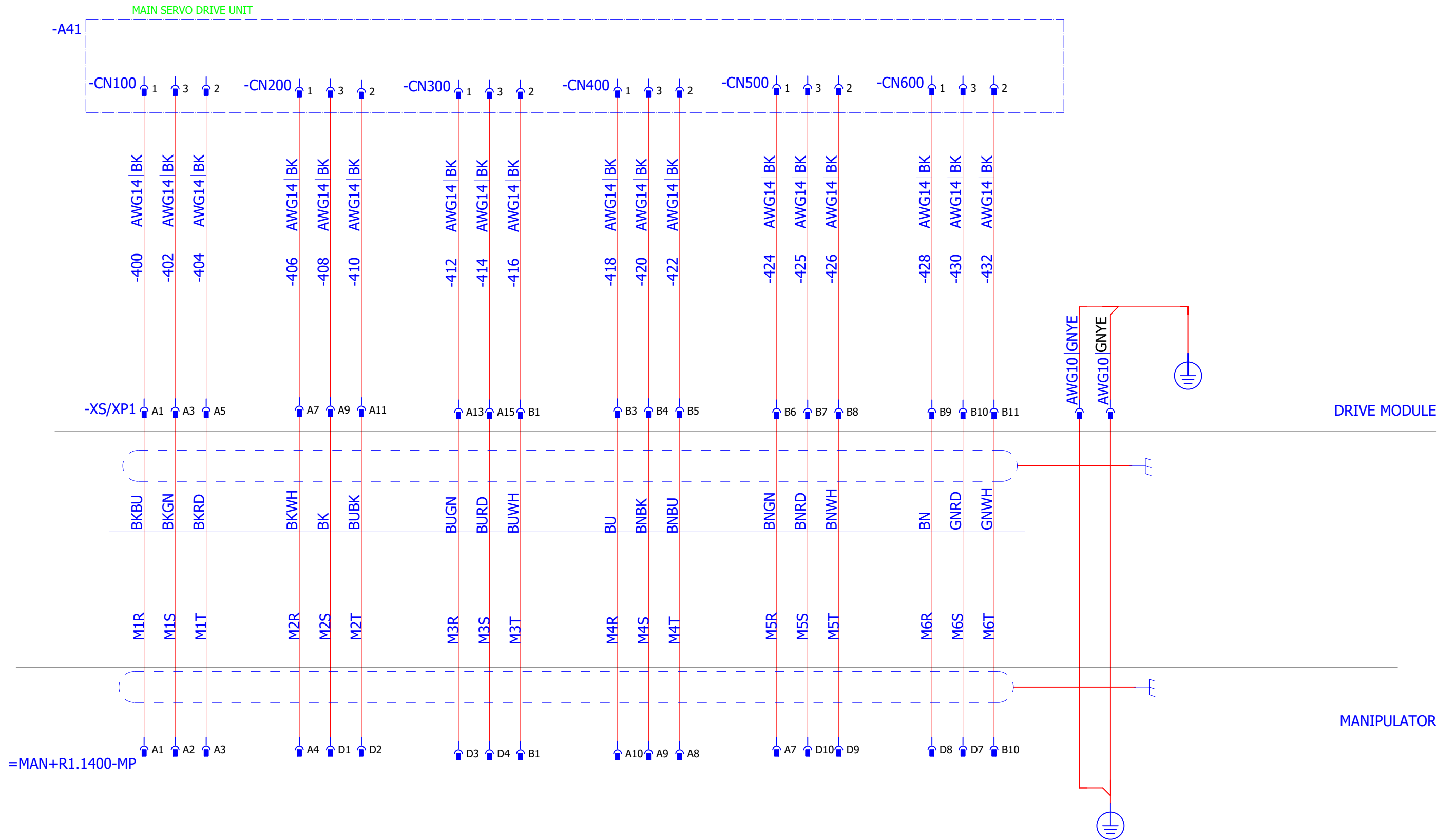
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IRB 1410, 1600, 260 cabinet module



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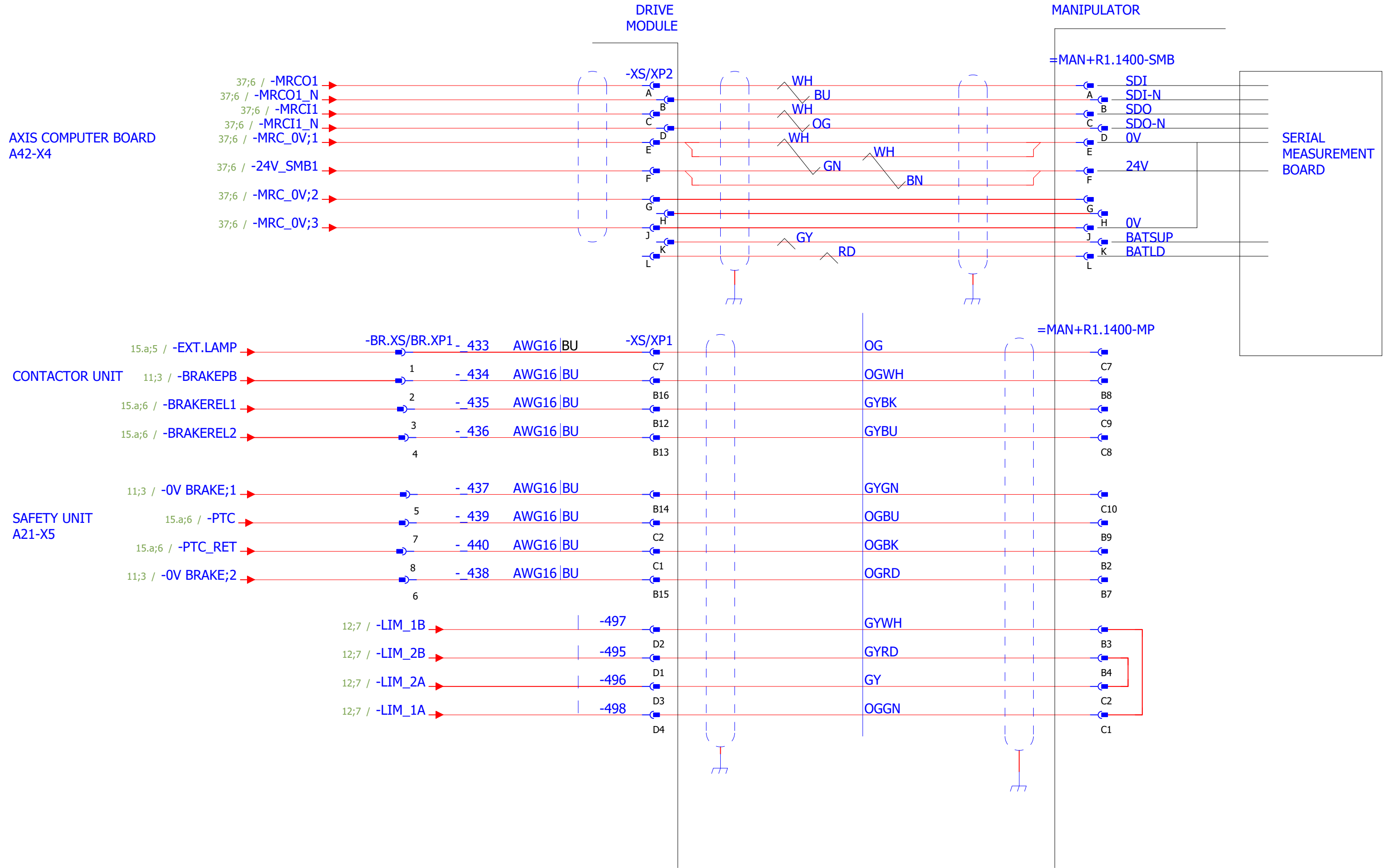
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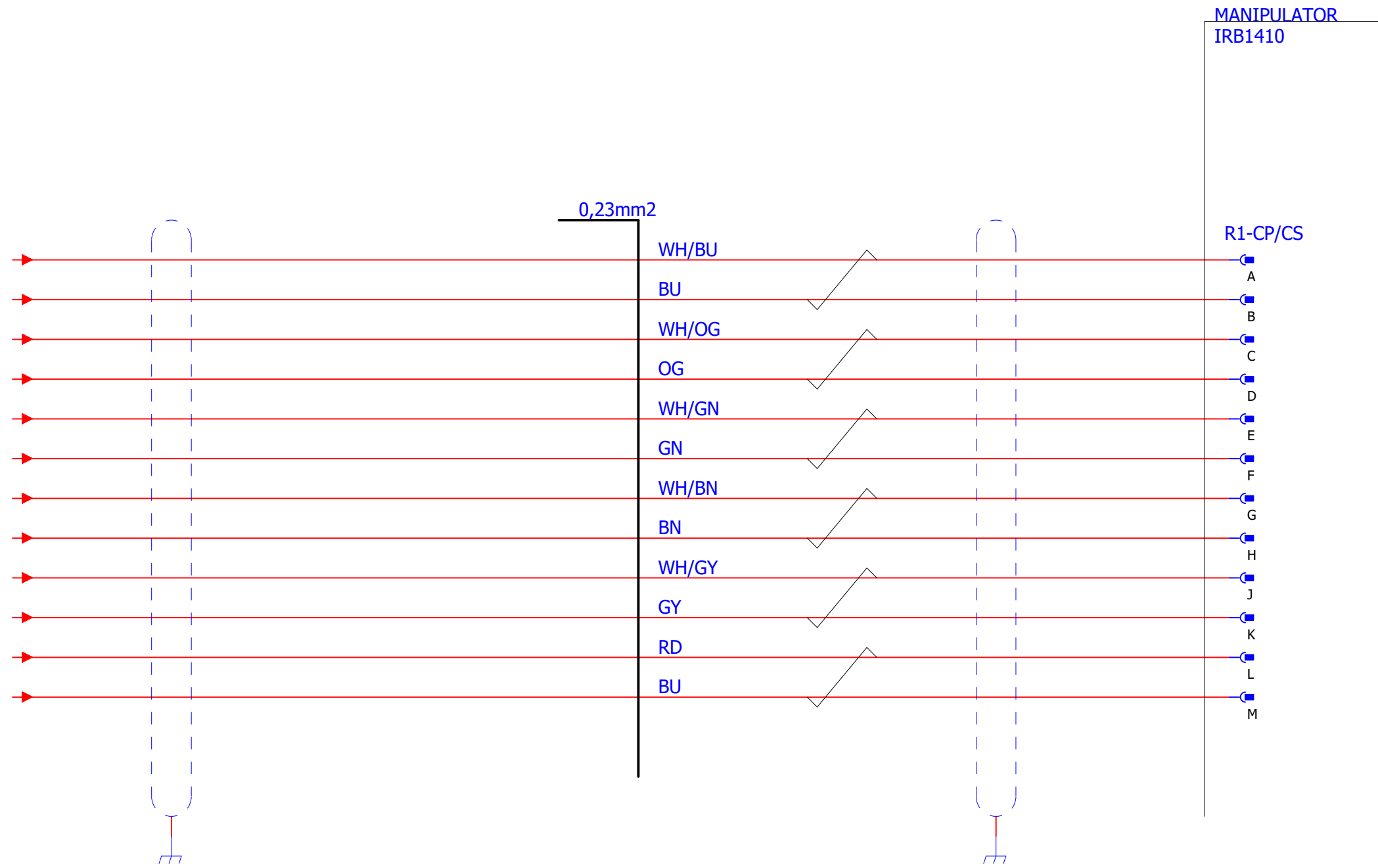
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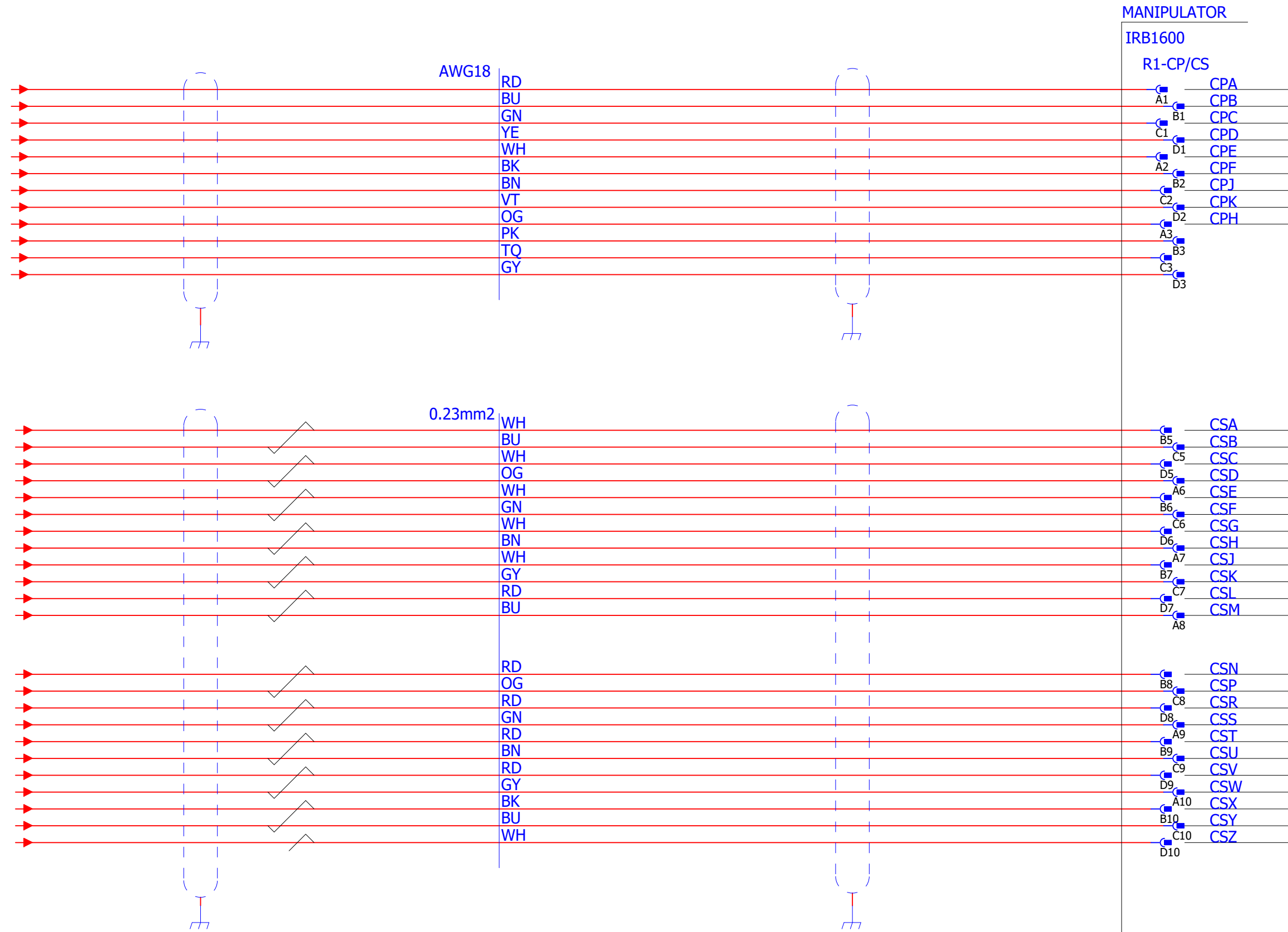
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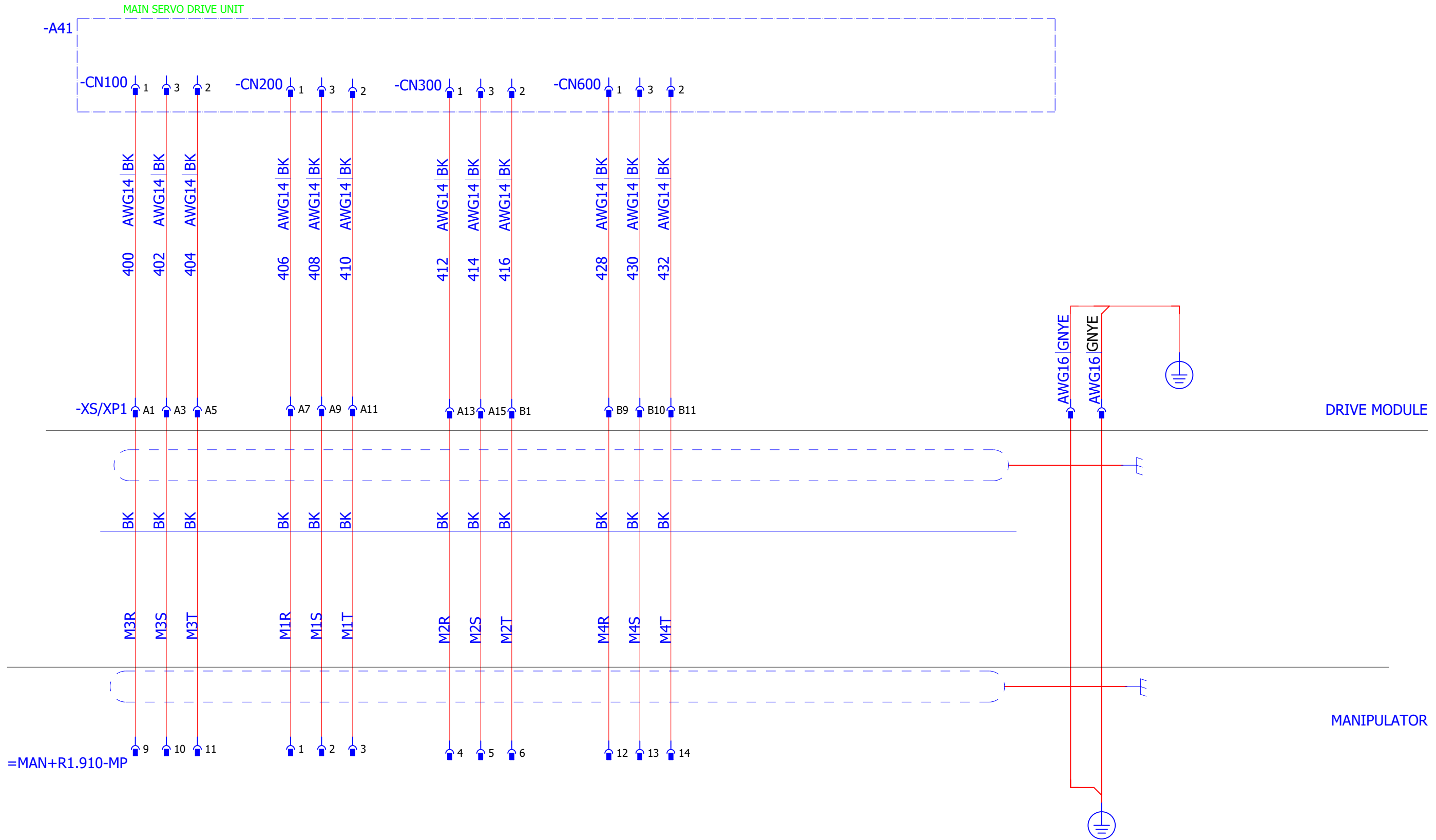
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IRB 910 cabinet module



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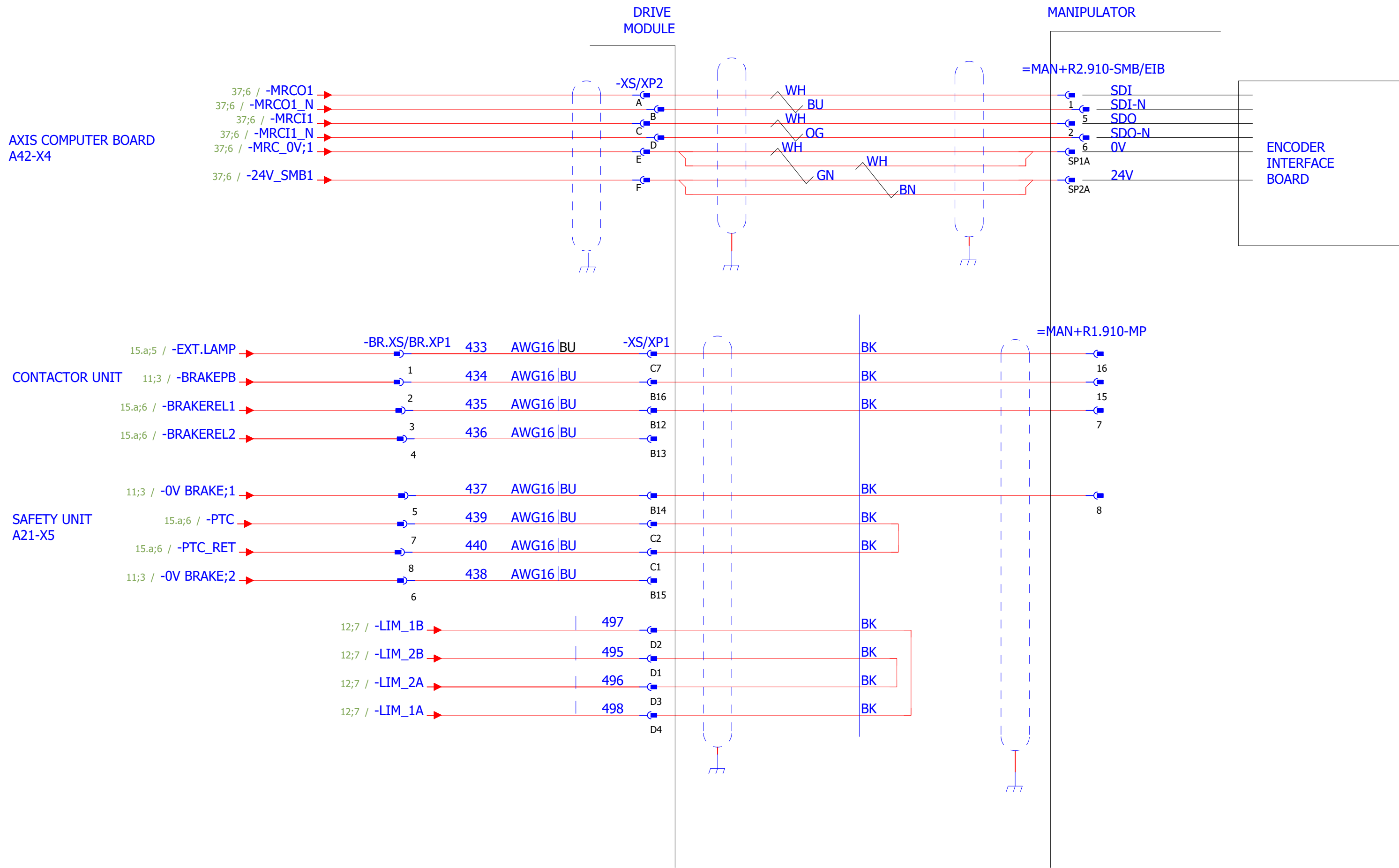
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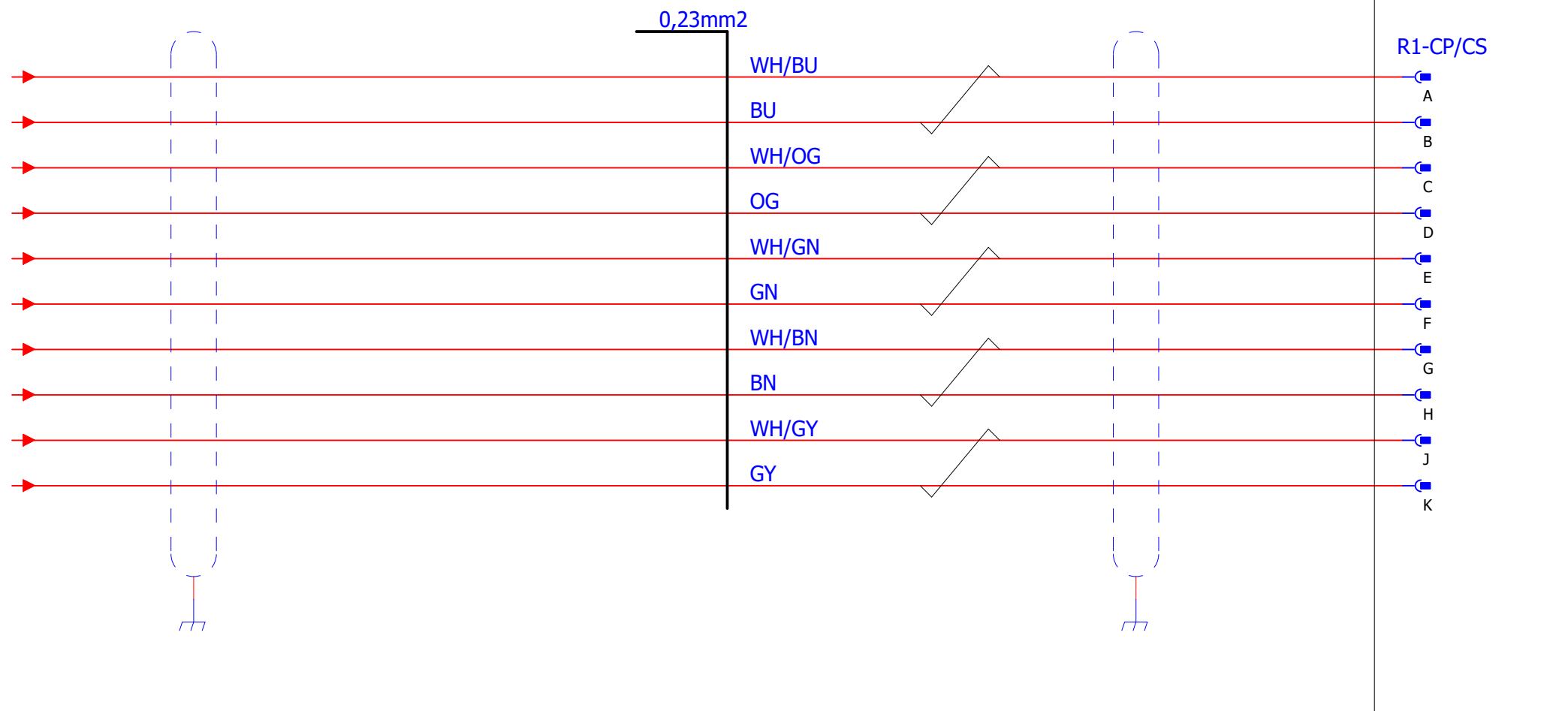
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