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Customer :  
Robot serial number(s) :  
Drawing number : 3HAC082020-008  
Drawing version : Rev 00

Manufacture : ABB Robotics SE  
Type : Industrial robot controller  
Type of installation : Floor  
Control cabinet : OmniCore V400XT  
Mains voltage :  
Supply :  
Control voltage :  
Year of construction : 2023

Project start :  
Project manager : Caroline Lindholm  
Last revision : 00  
Designed by : Linnéa Forsgård  
Designed date : 2023-10-16  
Number of pages : 155  
:

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New release

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OmniCore V400XT  
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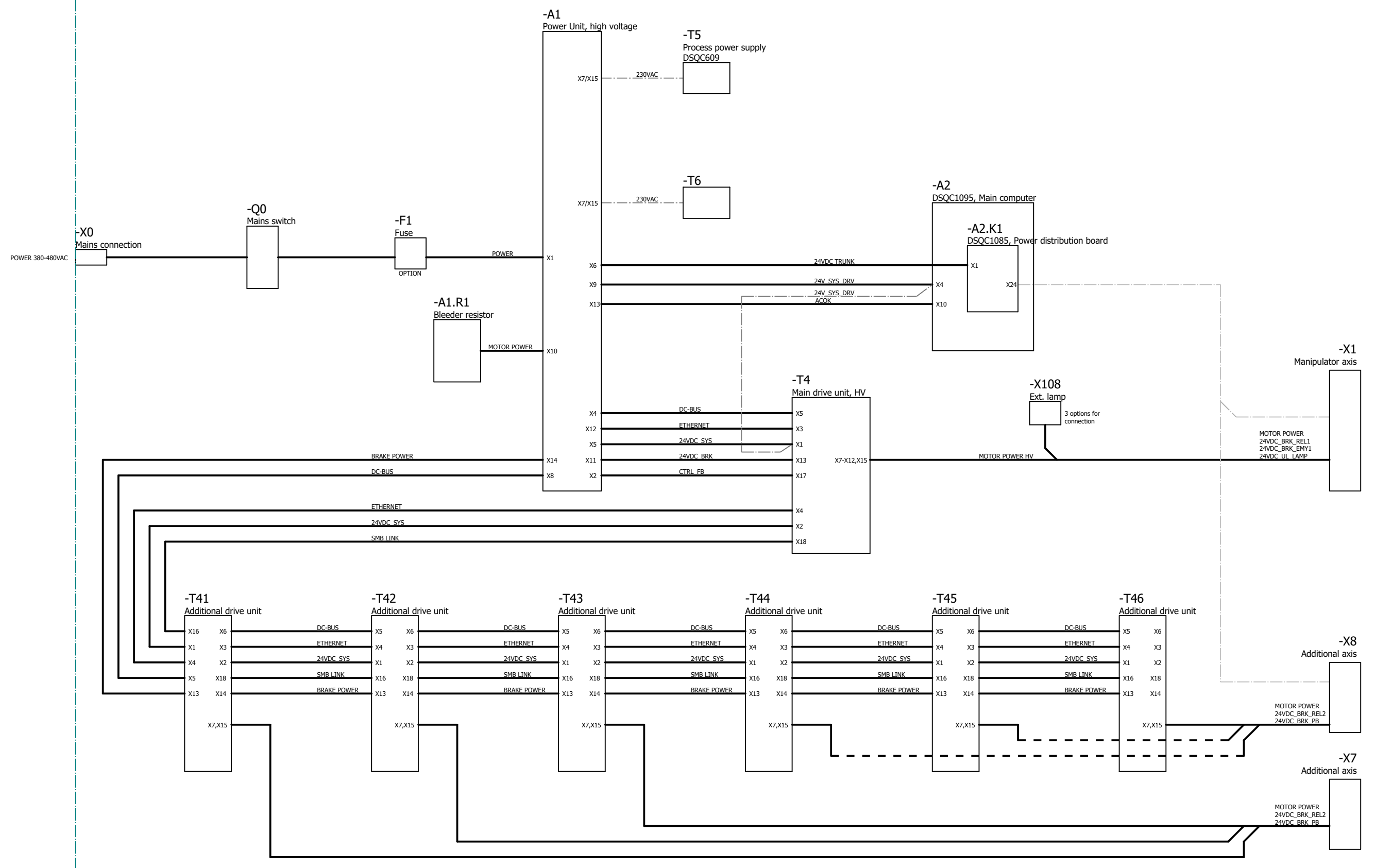
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+U1  
Cabinet



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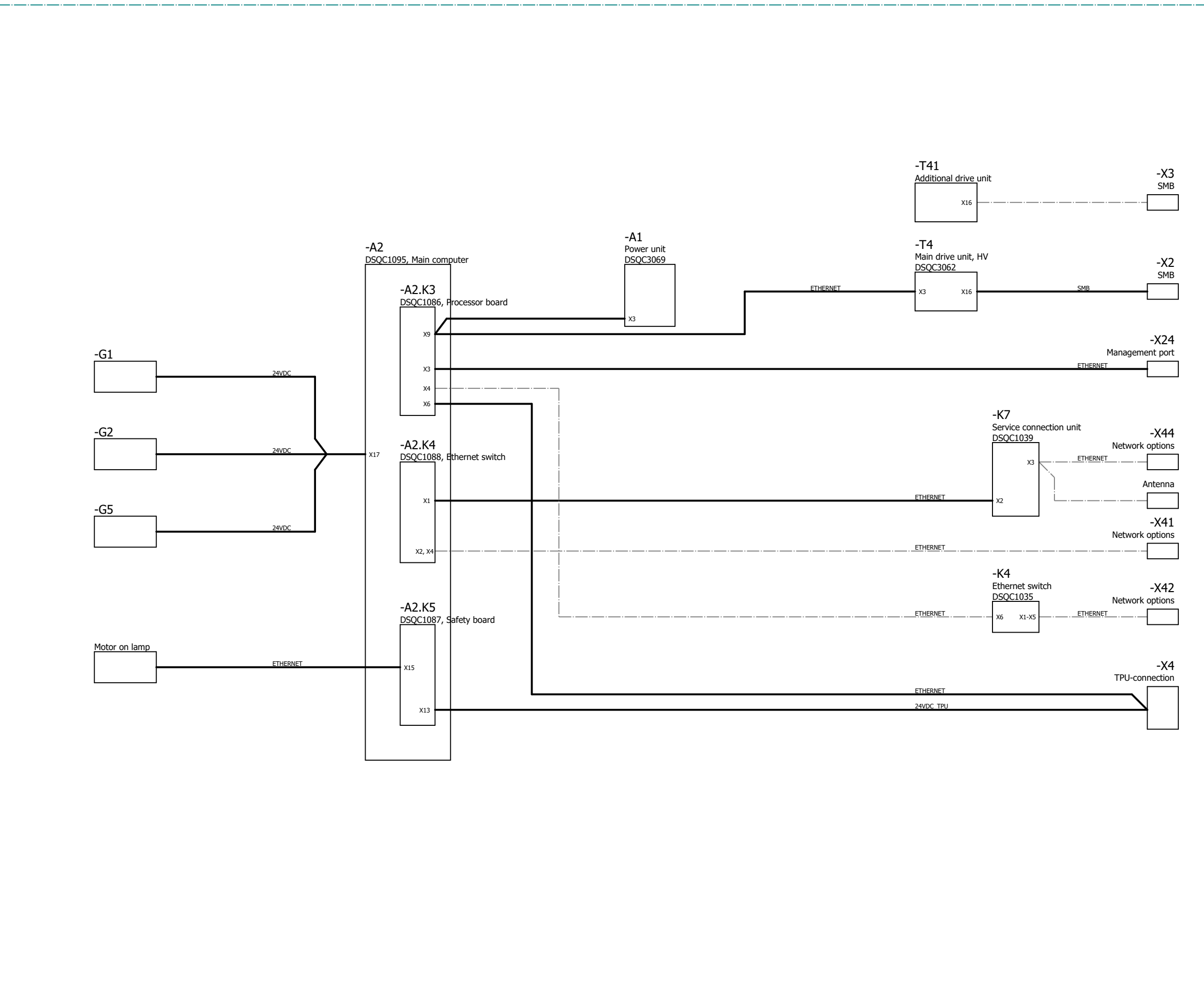


Lab/Office:  
**OmniCore V400XT**  
 Block diagram, drive level

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OmniCore V400XT  
Block diagram, control level

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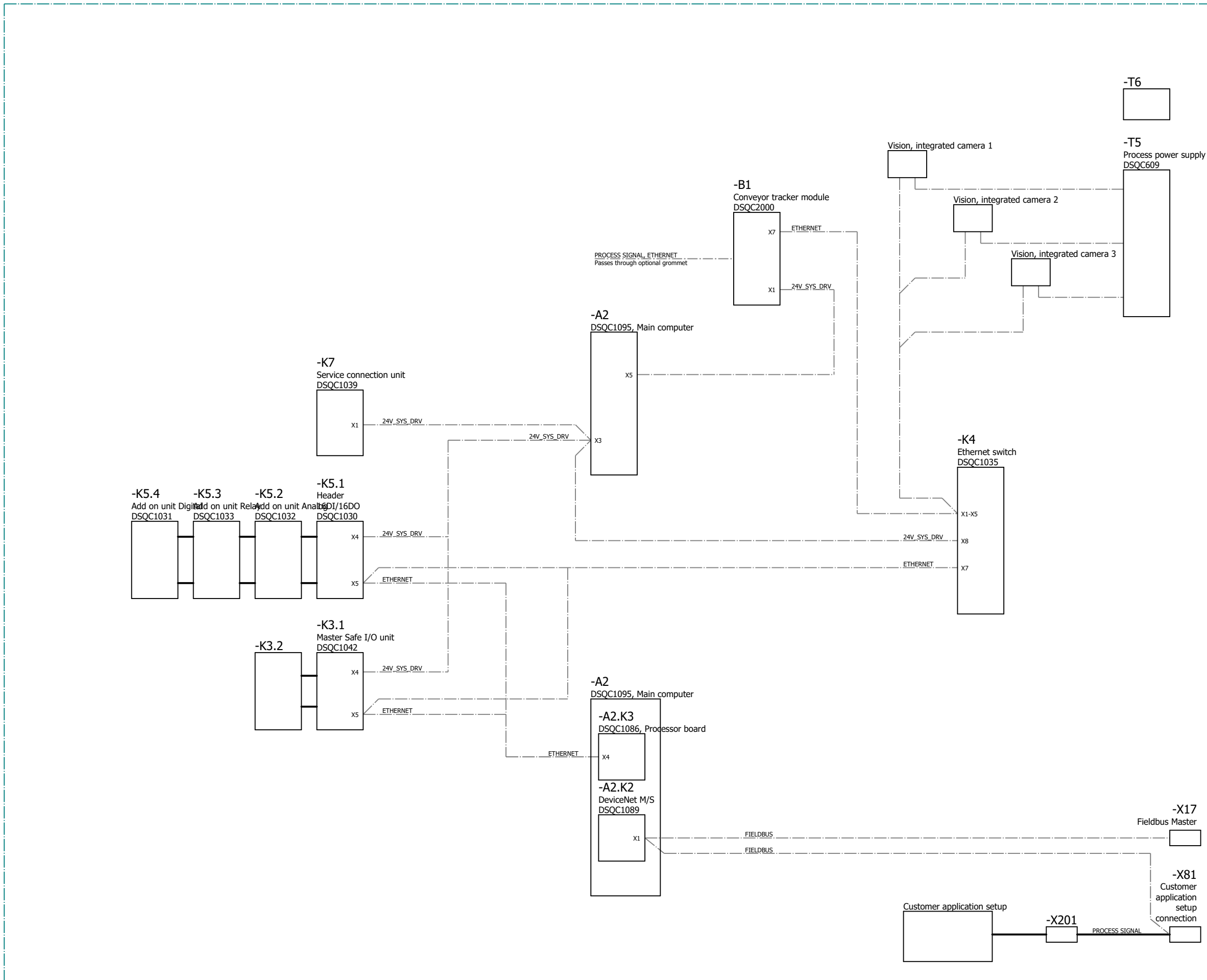
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Cabinet



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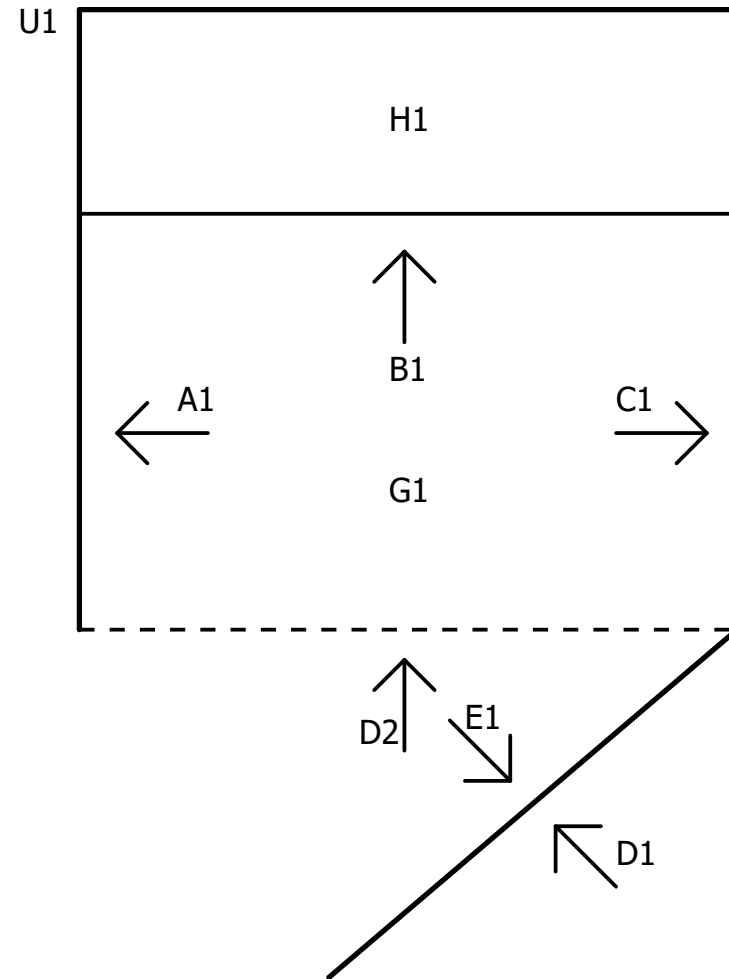
**OmniCore V400XT**  
Block diagram, process level

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# Location information



Location	Definition	Description
U1	Enclosure	Controller cabinet
A1	-	Inside left hand side
B1	Layer 1	Back plane
C1	-	Inside right hand side
D1	HMI panel, on door	Front door, outside
D2	Fixed installation panel	Front bottom plate
E1	Layer 2	Front door, inside
F1	Roof	Inside top plate
G1	Floor	Inside bottom plate
H1	Back compartment	Back compartment

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OmniCore V400XT  
General information

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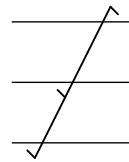
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# Graphical symbols according to IEC 60617.

## Cable/wire information

=A1-W120 | AWG8 BK

- | W = Wire/cable
- | A1 = Device
- | AWG8 = Wire size
- | BK = Wire colour



Triple-twisted conductors

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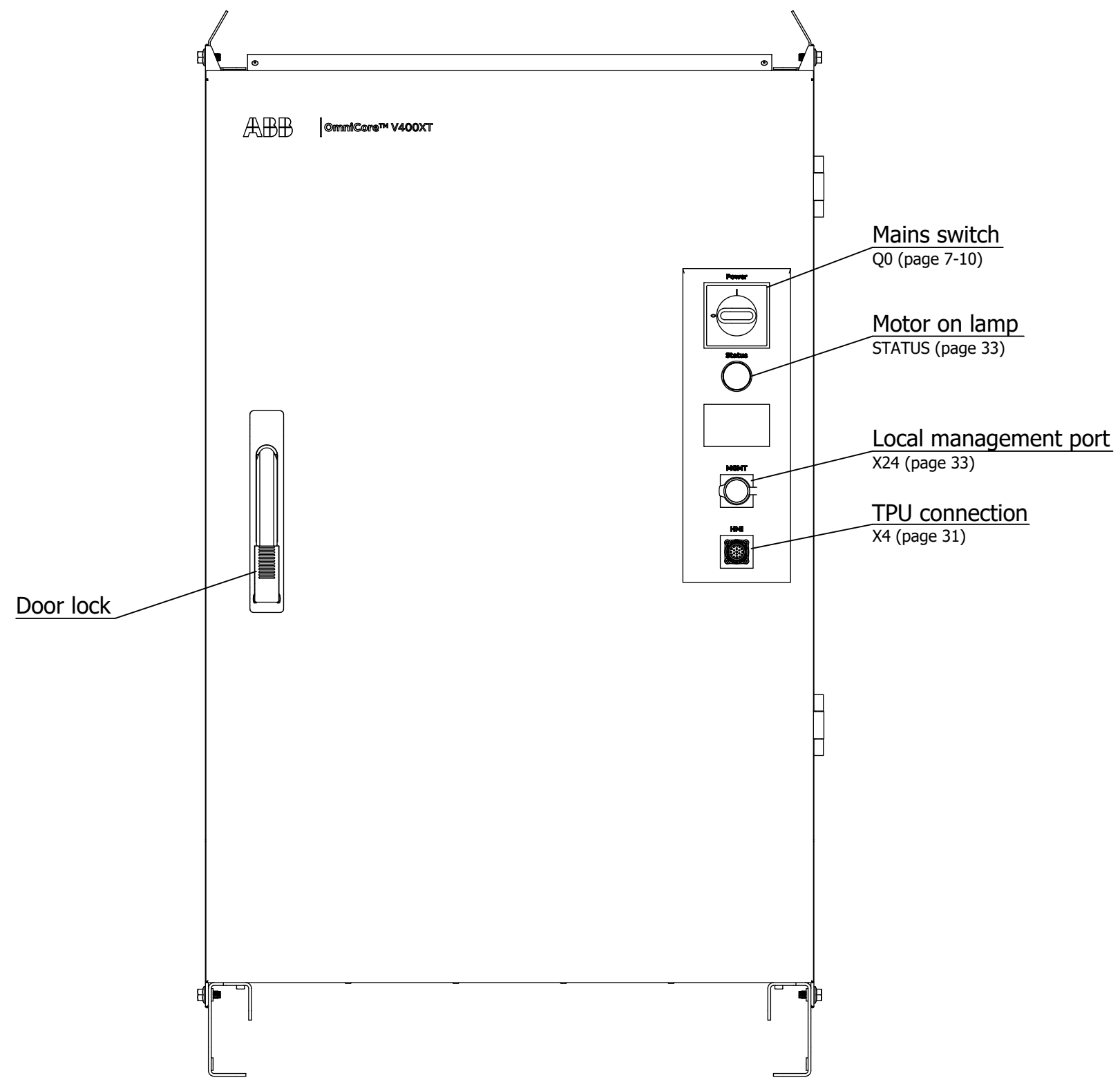
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Lab/Office:	OmniCore V400XT Symbol information
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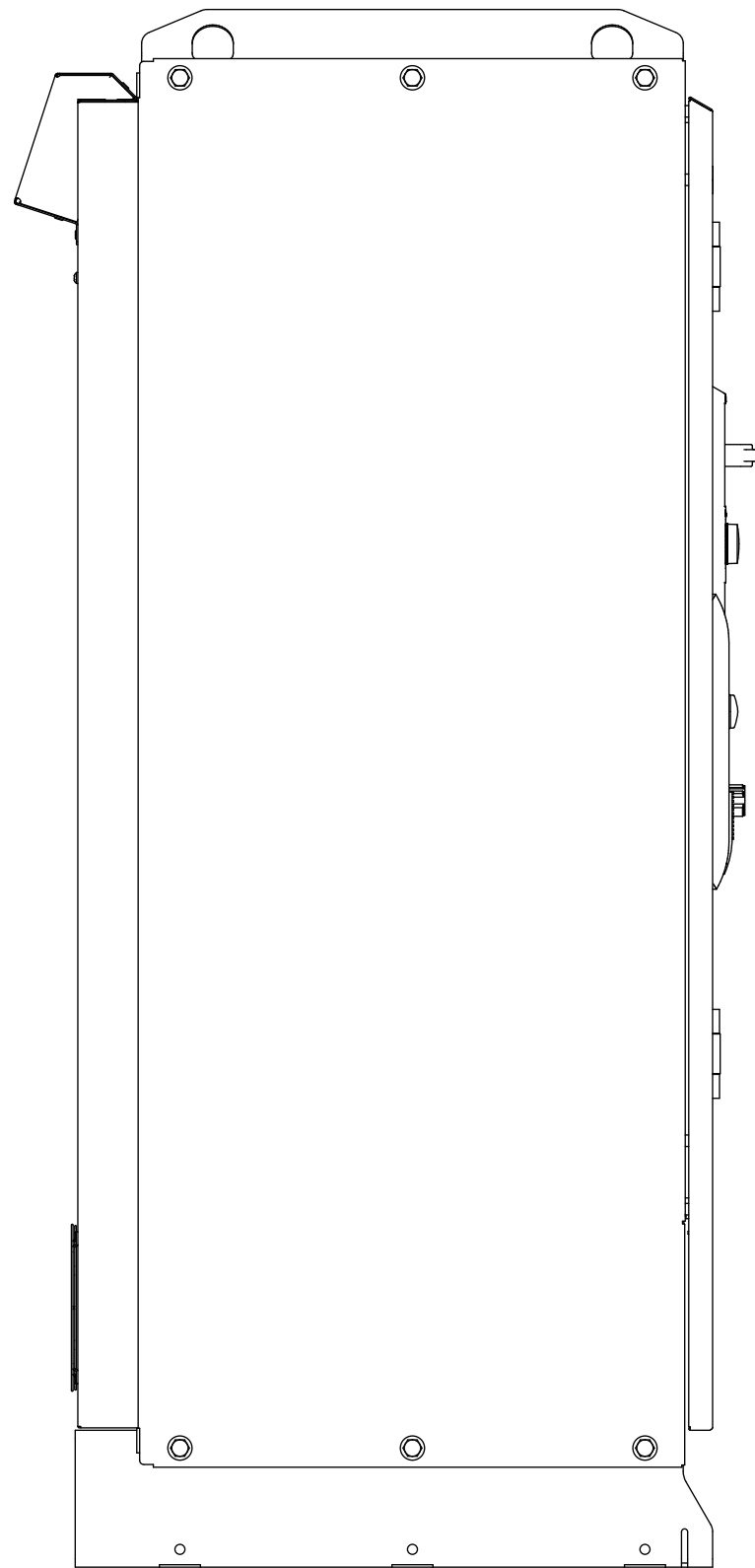




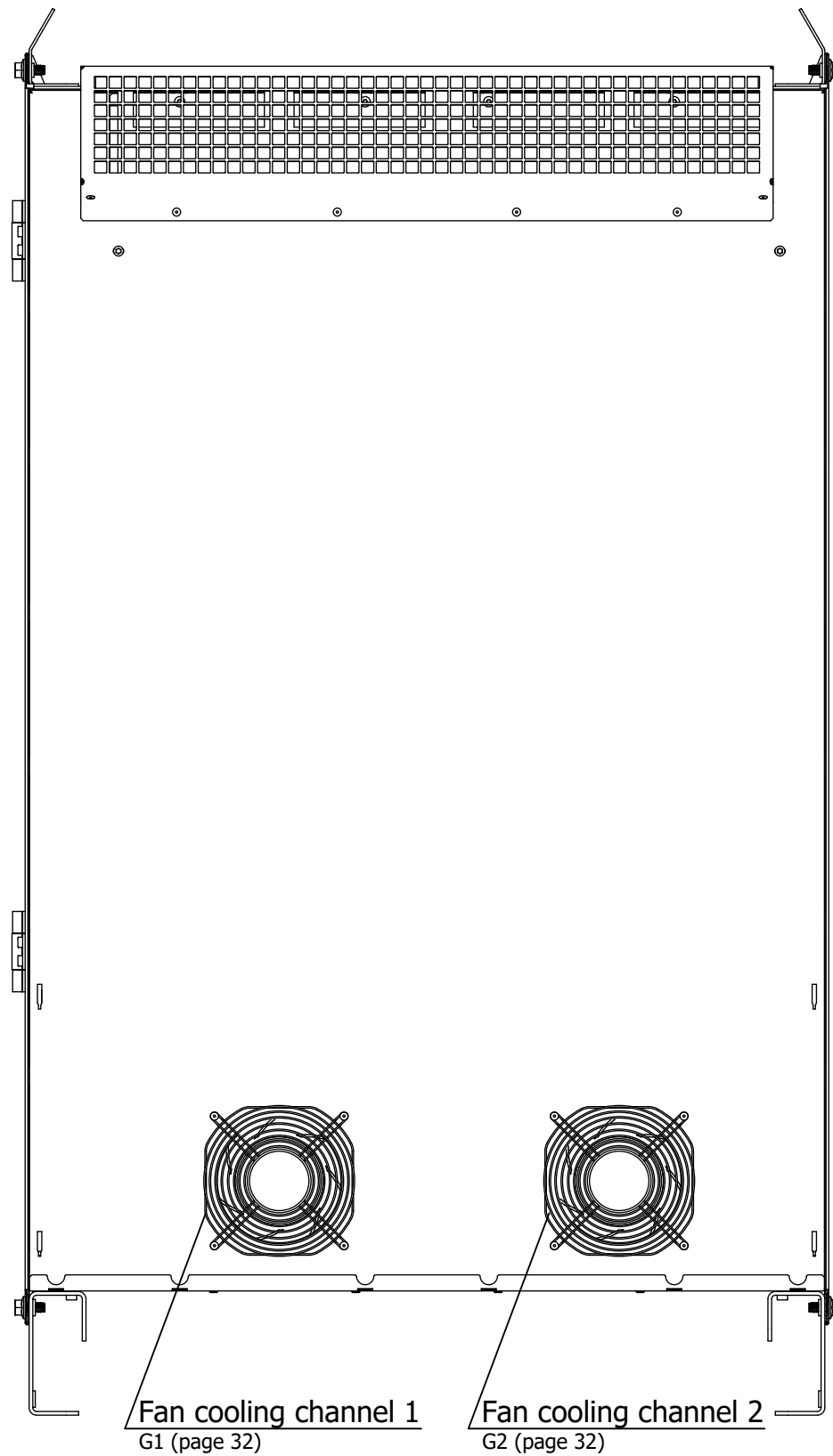
Front view

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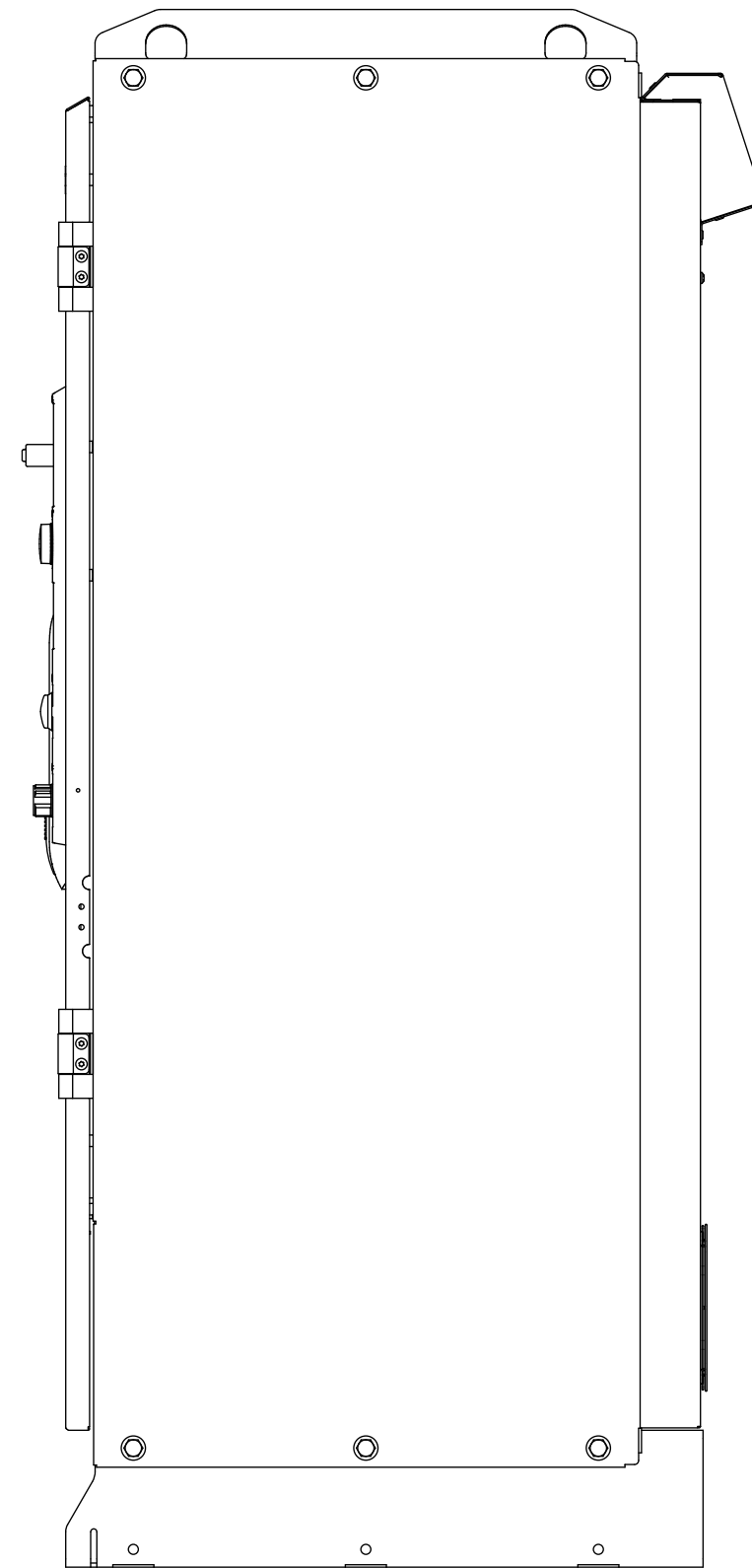
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Left view



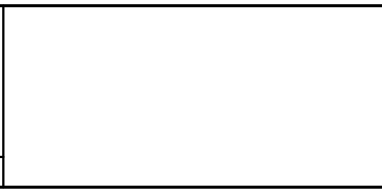
Back view



Right view

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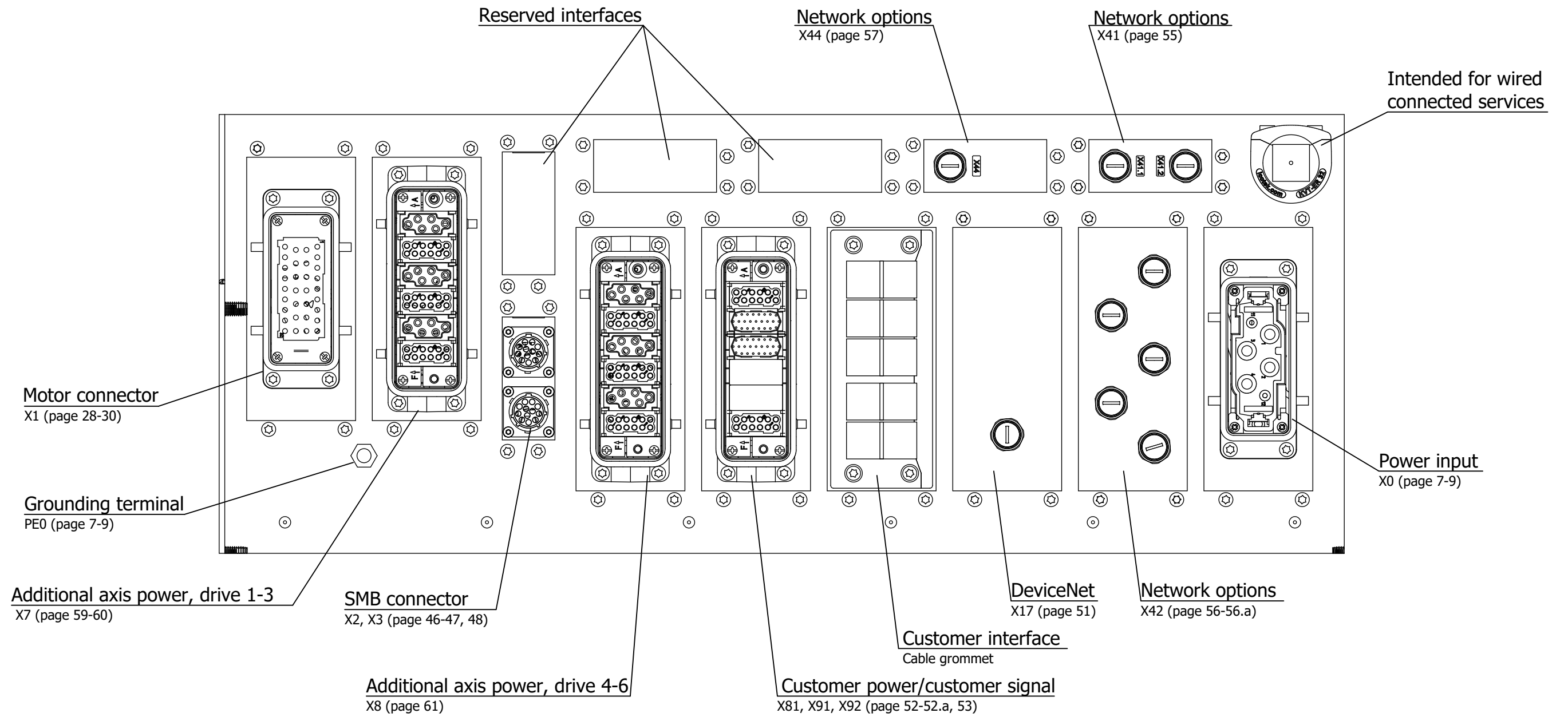
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Lab/Office:	OmniCore V400XT Back and side views of cabinet
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Note. Depending on chosen options, the graphical visualization does not always correspond to reality.



# Fixed installation panel

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# Inside view

## Main drive unit HV

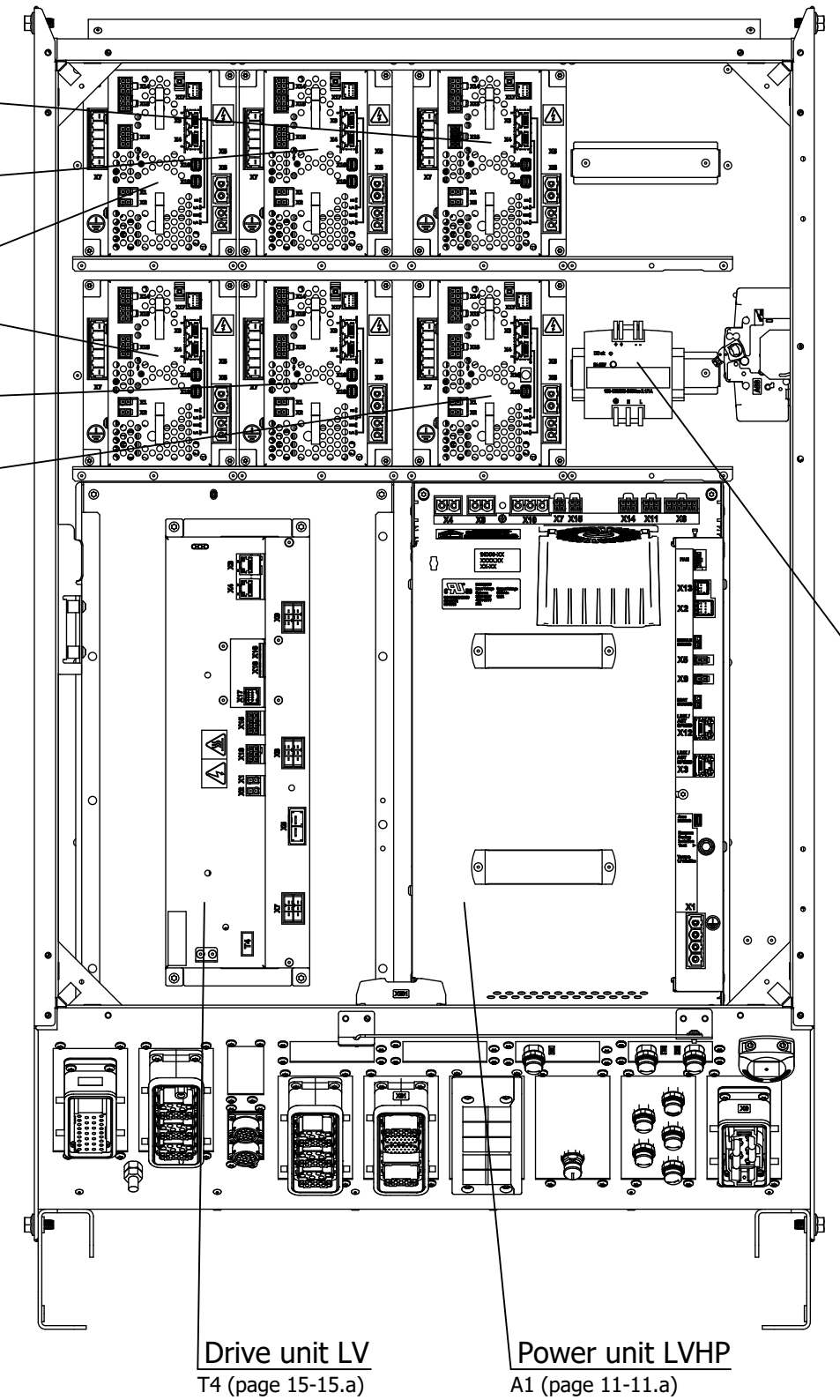
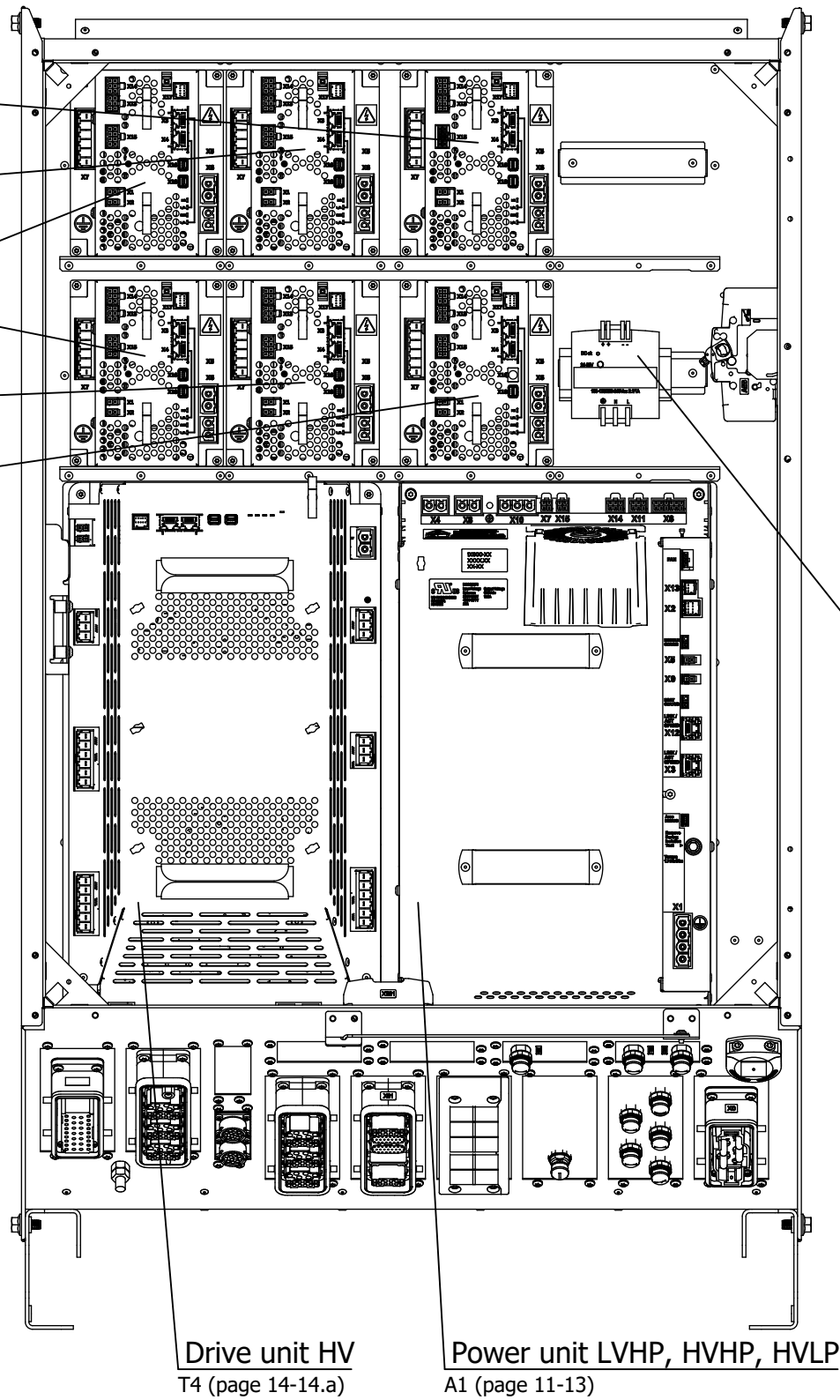
## Main drive unit LV

- Additional drive unit 6  
T46 (page 21-21.a)
- Additional drive unit 5  
T45 (page 20-20.a)
- Additional drive unit 4  
T44 (page 19-19.a)
- Additional drive unit 3  
T43 (page 18-18.a)
- Additional drive unit 2  
T42 (page 17-17.a)
- Additional drive unit 1  
T41 (page 16-16.a)

- Additional drive unit 6  
T46 (page 21-21.a)
- Additional drive unit 5  
T45 (page 20-20.a)
- Additional drive unit 4  
T44 (page 19-19.a)
- Additional drive unit 3  
T43 (page 18-18.a)
- Additional drive unit 2  
T42 (page 17-17.a)
- Additional drive unit 1  
T41 (page 16-16.a)

Power supply  
T5 (page 49) or T6  
(page 50)

Power supply  
T5 (page 49) or T6  
(page 50)



Drive unit HV  
T4 (page 14-14.a)

Power unit LVHP, HVHP, HVLP  
A1 (page 11-13)

Drive unit LV  
T4 (page 15-15.a)

Power unit LVHP  
A1 (page 11-11.a)

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Inside view of cabinet

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**Add on I/O unit**  
K5.2 (page 36), K5.3 (page 37) or K5.4 (page 38)

**Master I/O unit or Master Safe I/O unit**  
K5.1 (page 35-35.a) or K3.1 (page 39-39.a)

**24VDC terminal block**  
X103 (page 49,50)

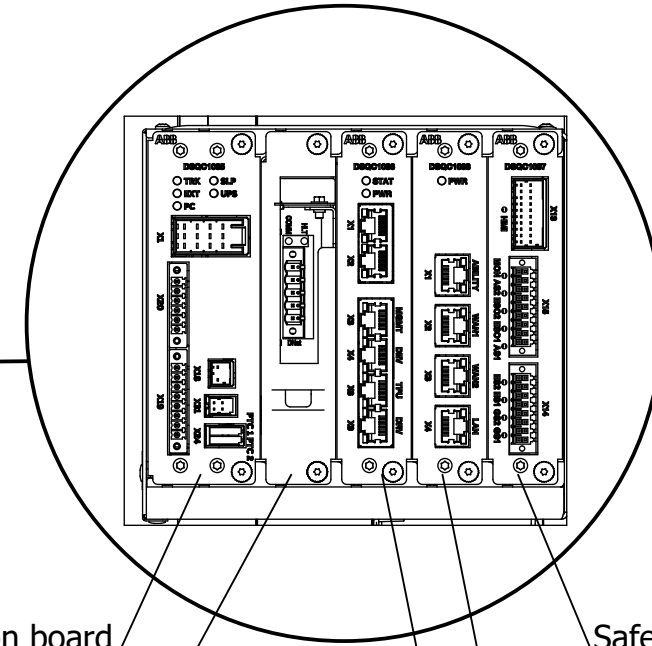
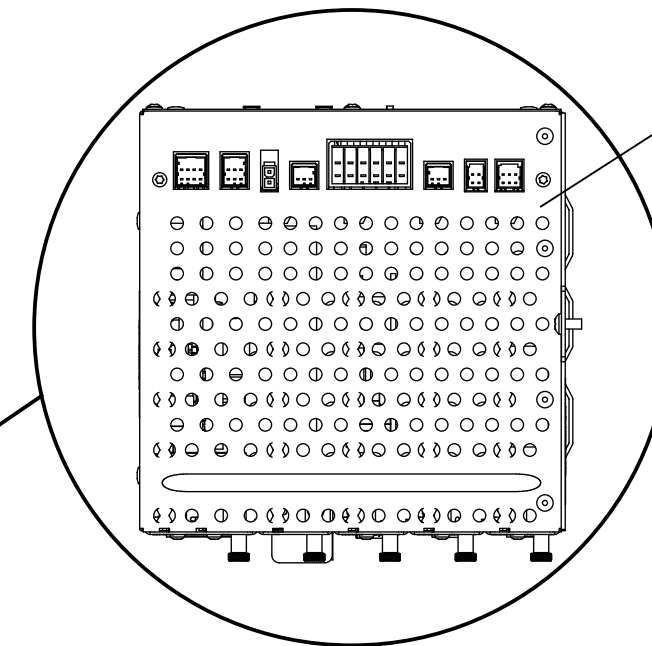
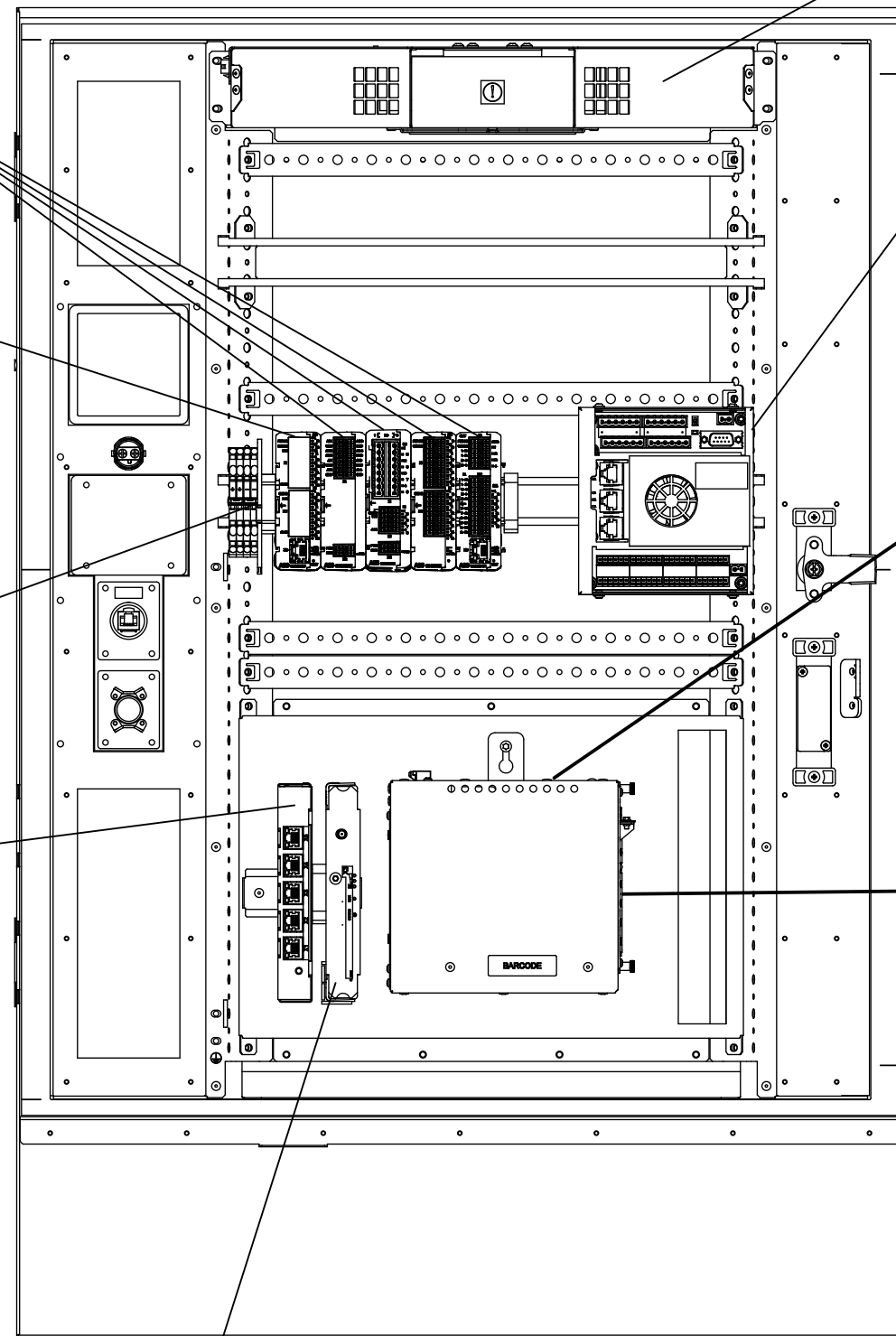
**Ethernet switch**  
K4 (page 40-40.a)

**Connected services (3G/4G/WiFi/Wired)**  
K7 (page 41-44)

**Internal fan**  
G5 (page 32)

**Conveyor tracker unit**  
B1 (page 45-45.a)

**Main computer**  
A2 (page 22)



**Power distribution board**  
A2.K1 (page 23)


**DeviceNet**  
A2.K2 (page 24)

**Processor board**  
A2.K3 (page 25)

**Switch basic**  
A2.K4 (page 26)

**Safety board**  
A2.K5 (page 27-27.a)

# Door view

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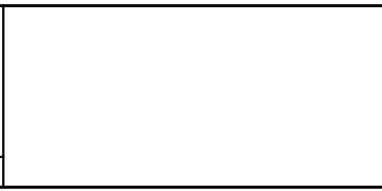
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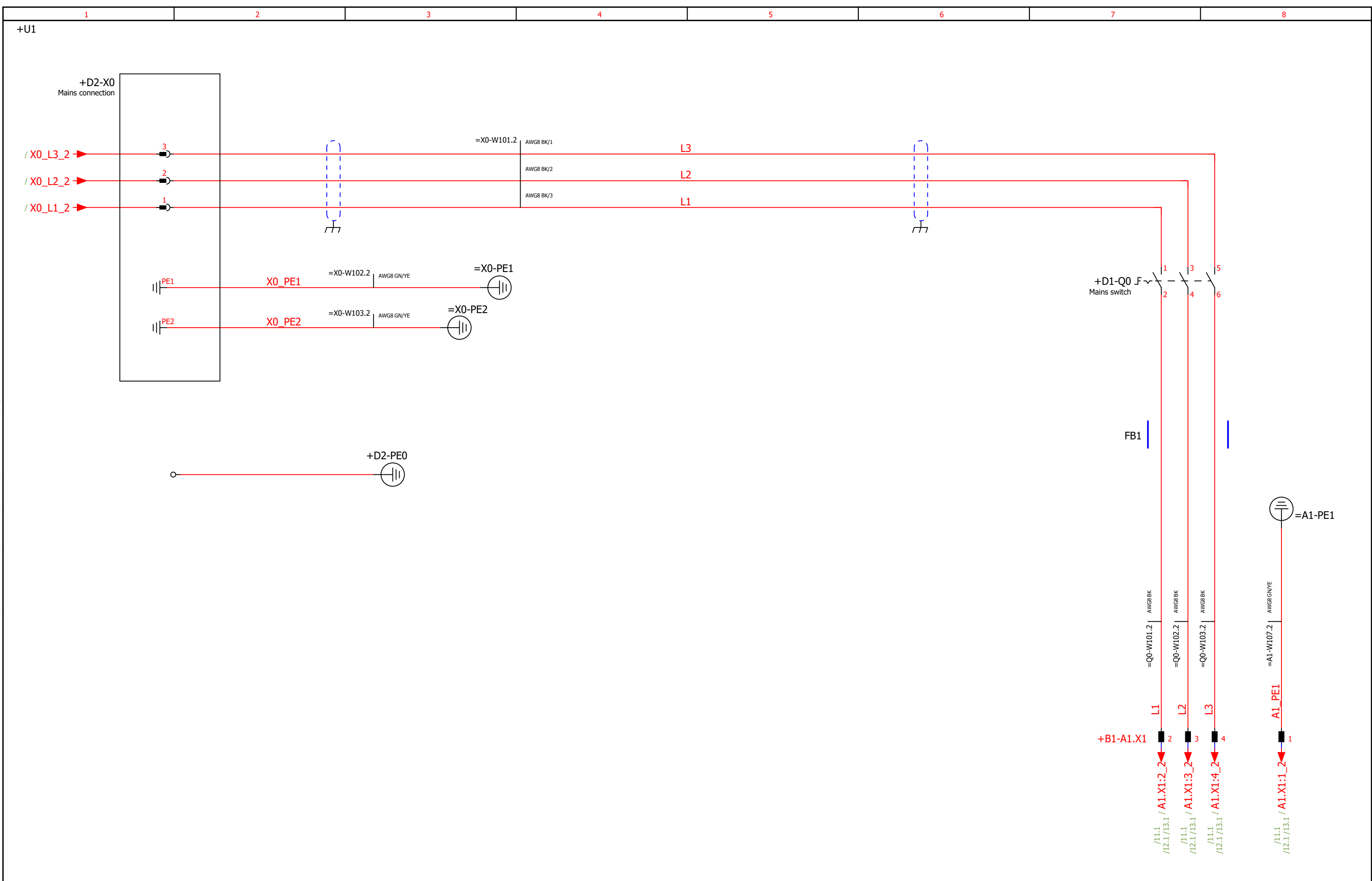
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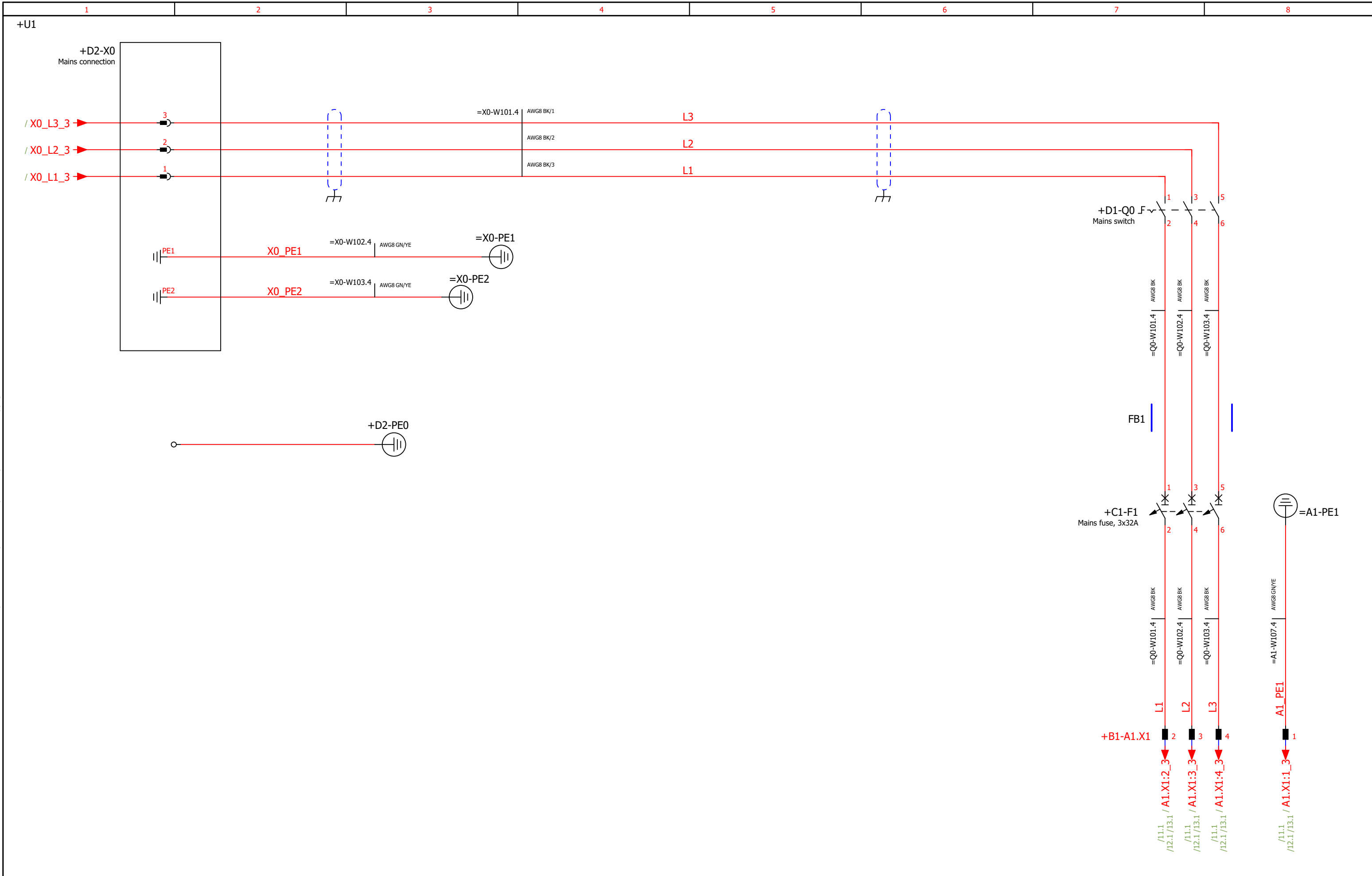
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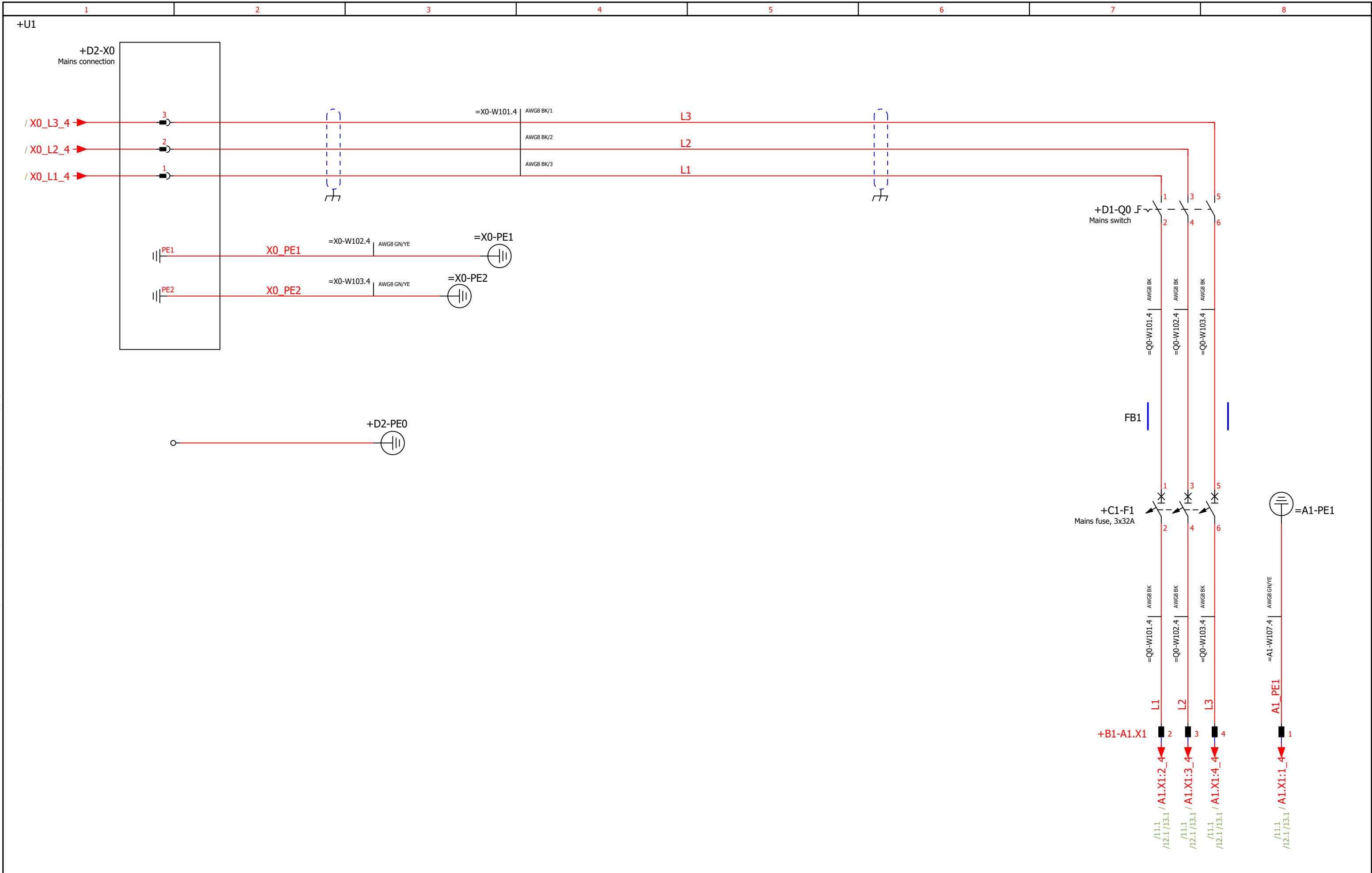
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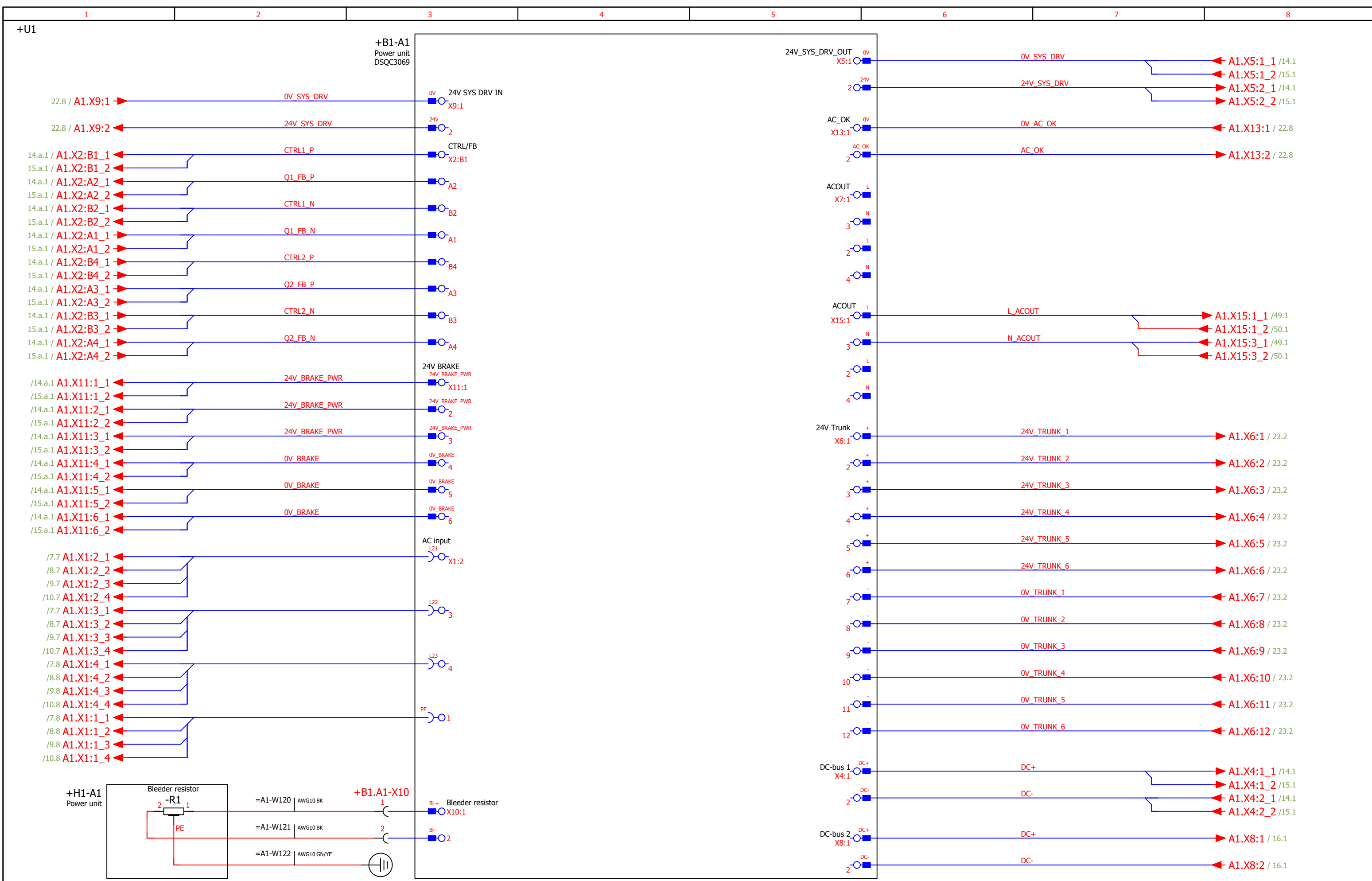
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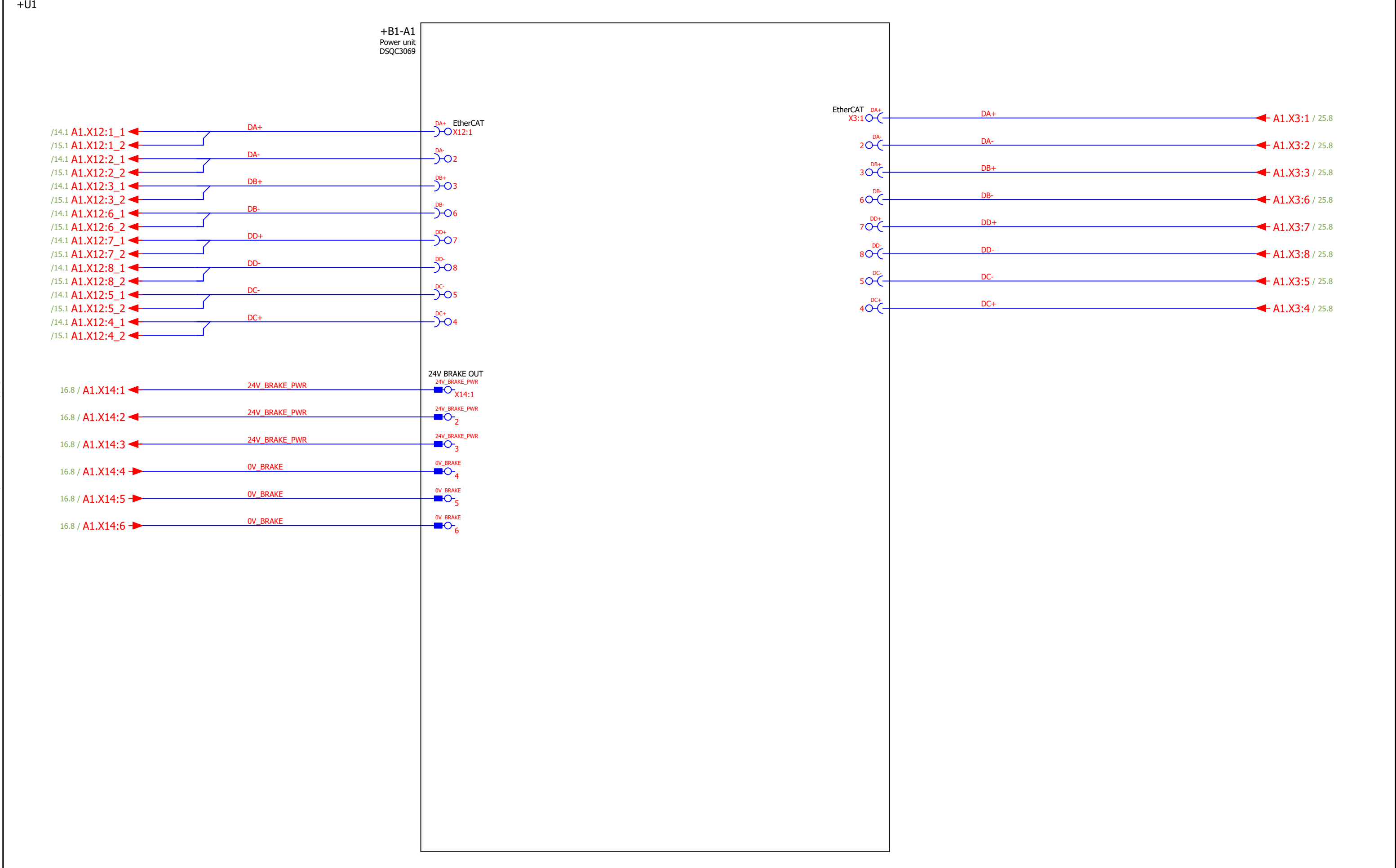
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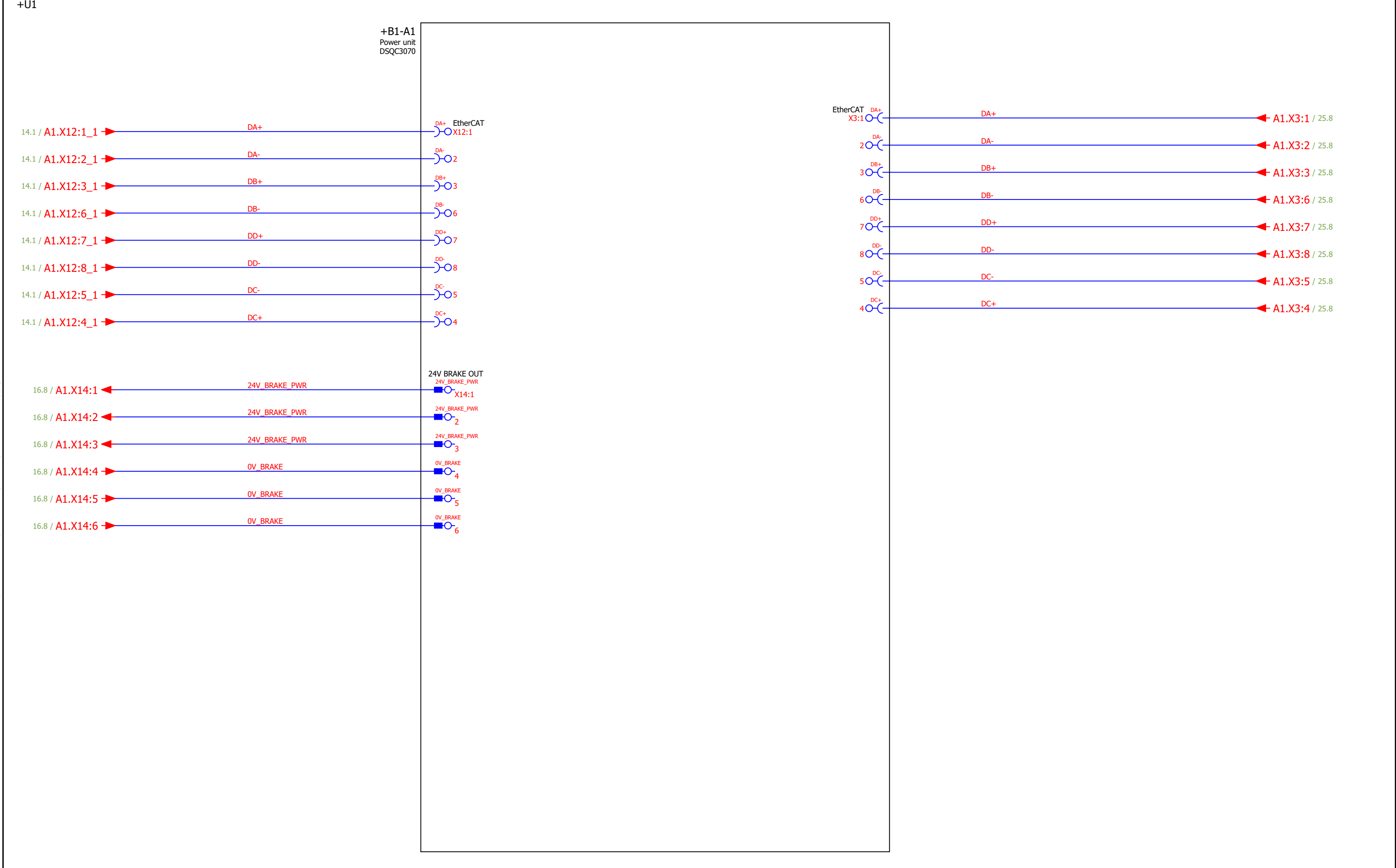
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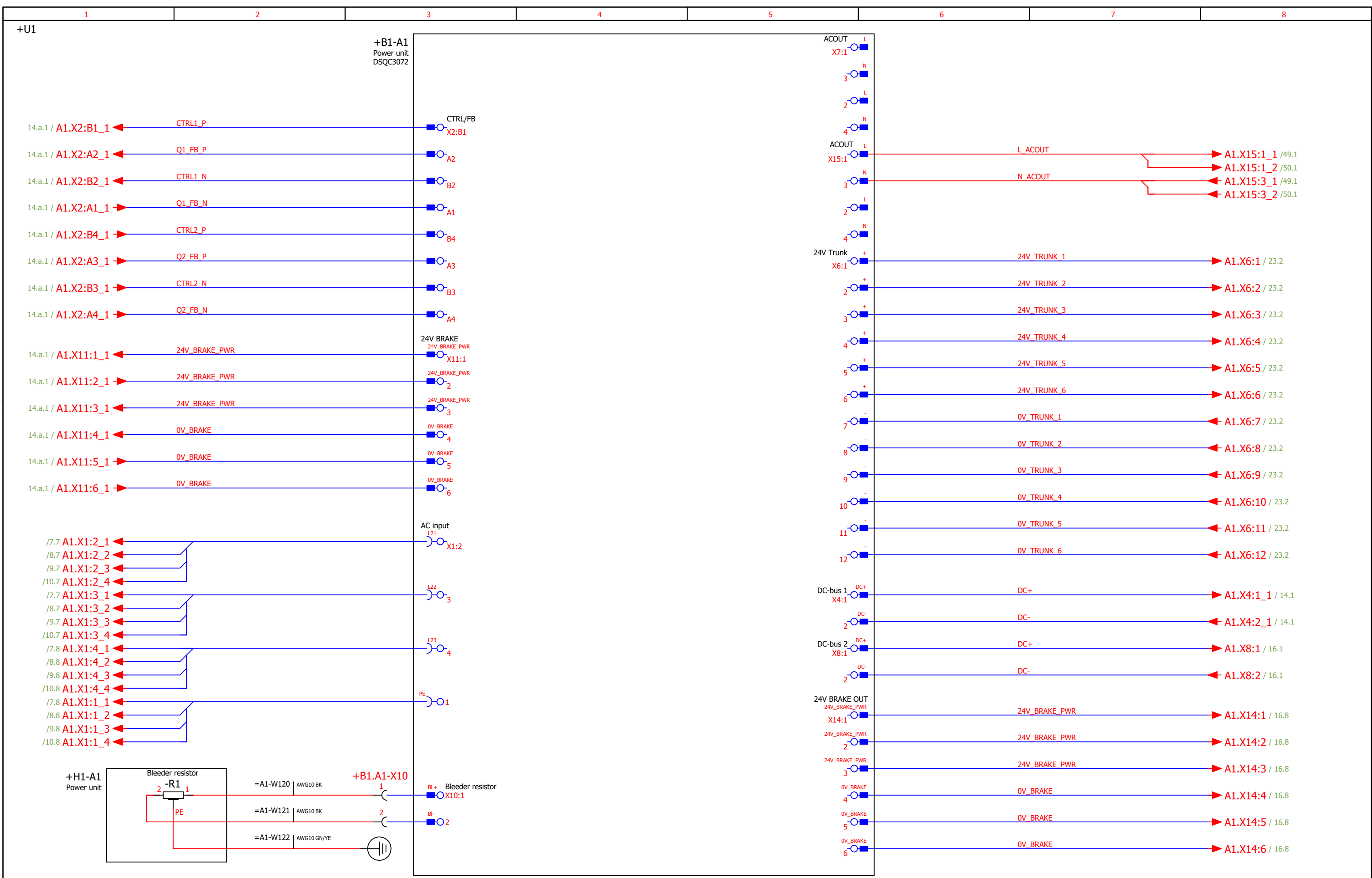
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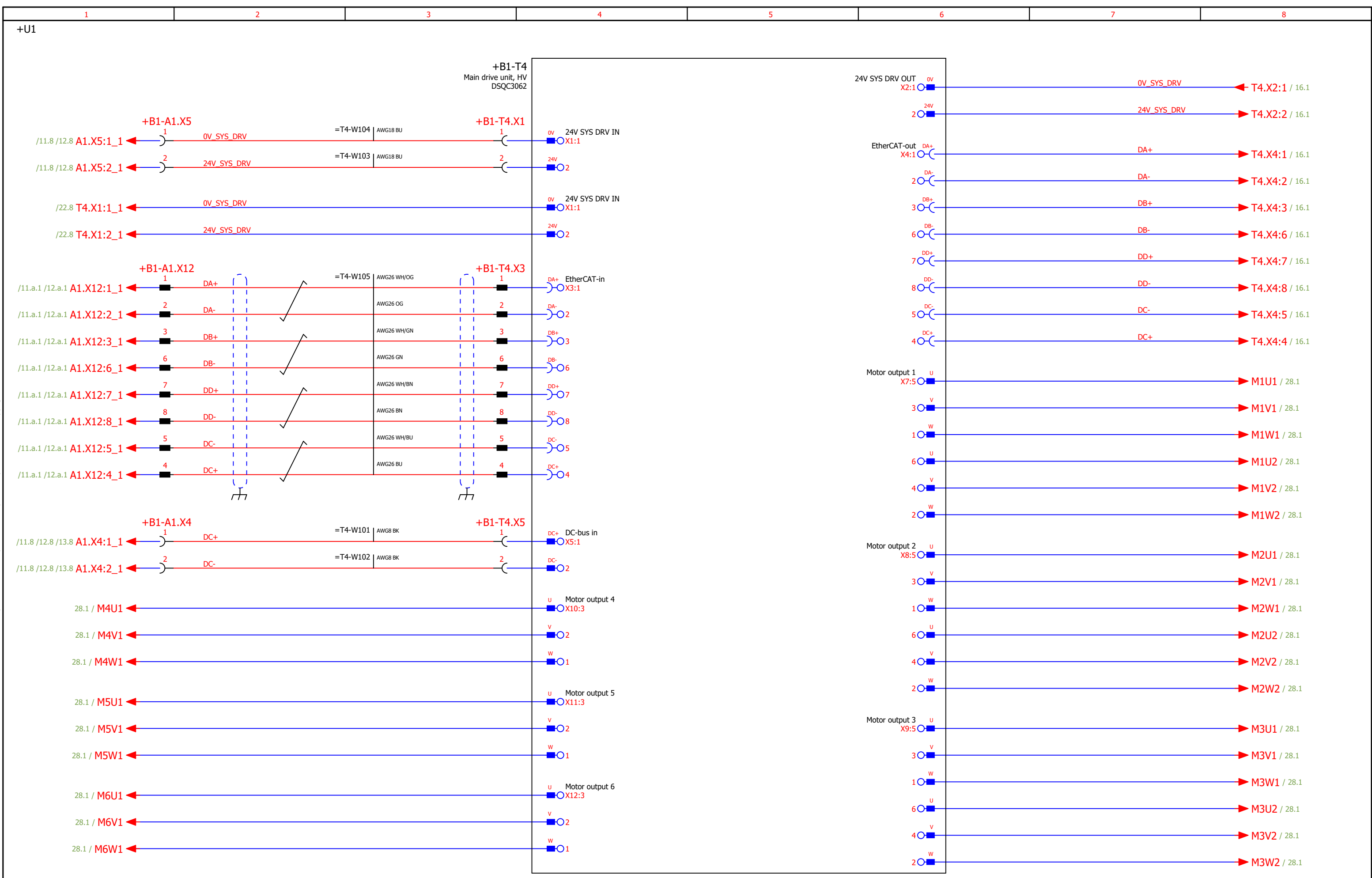
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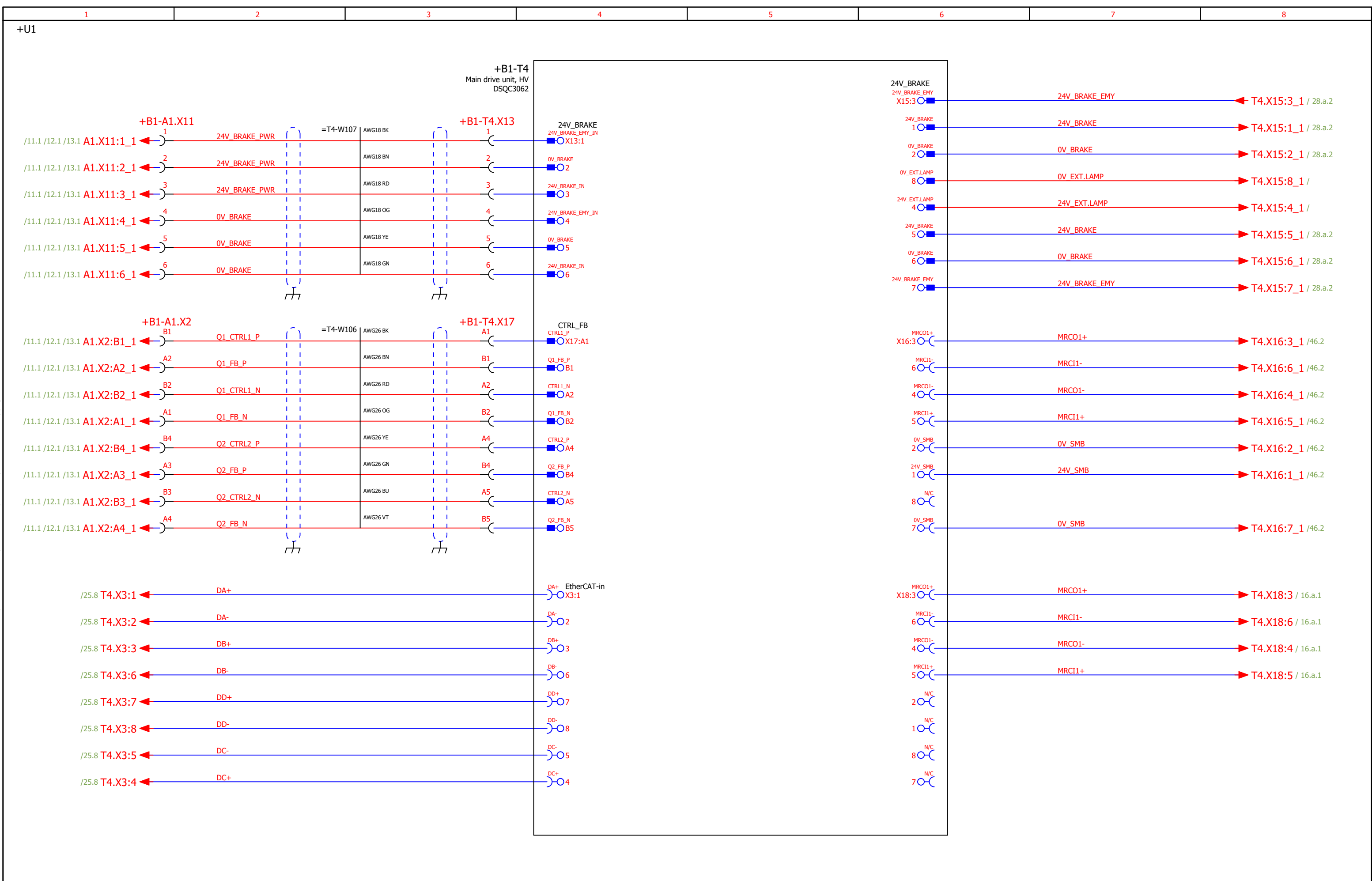
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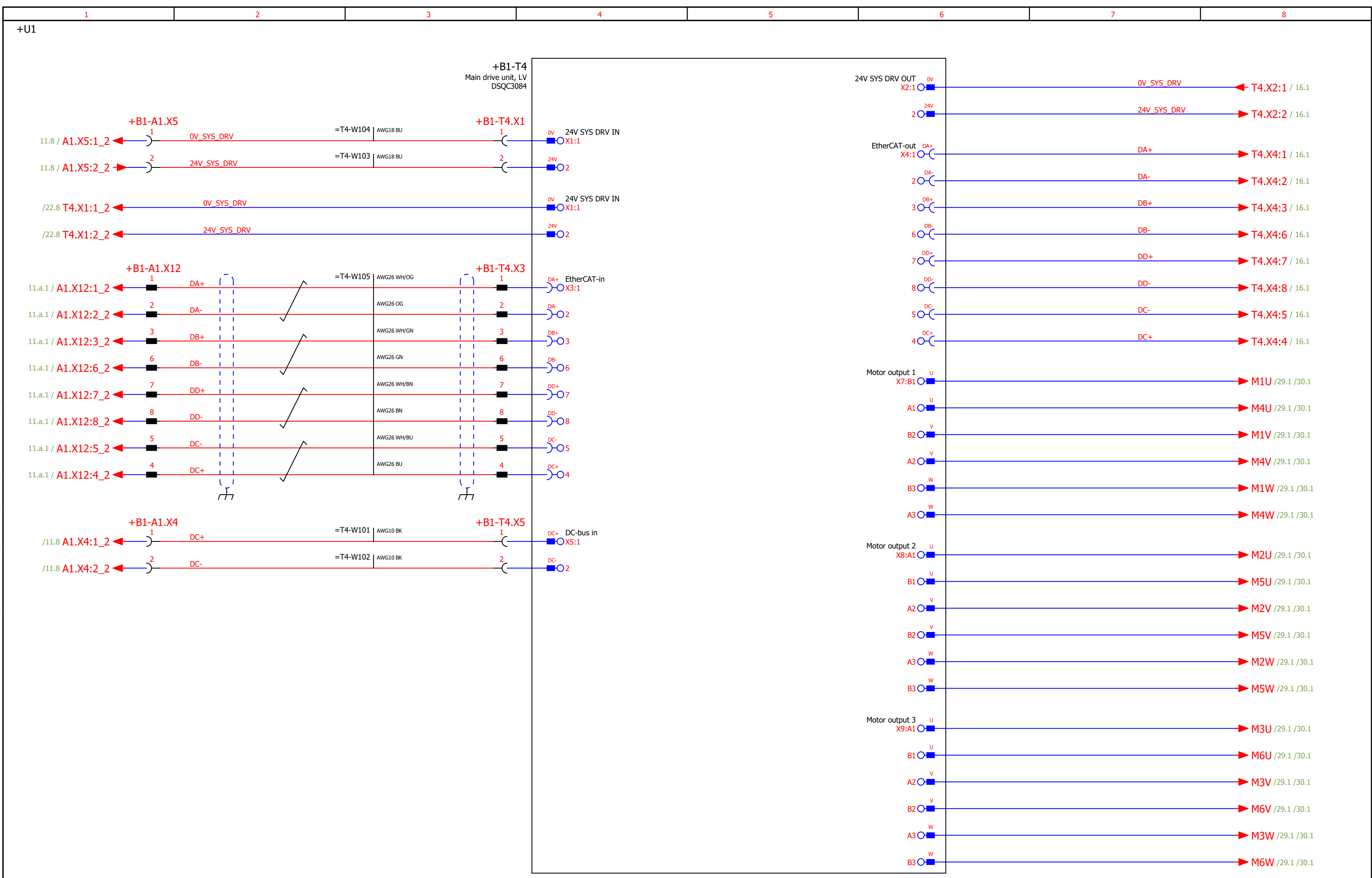
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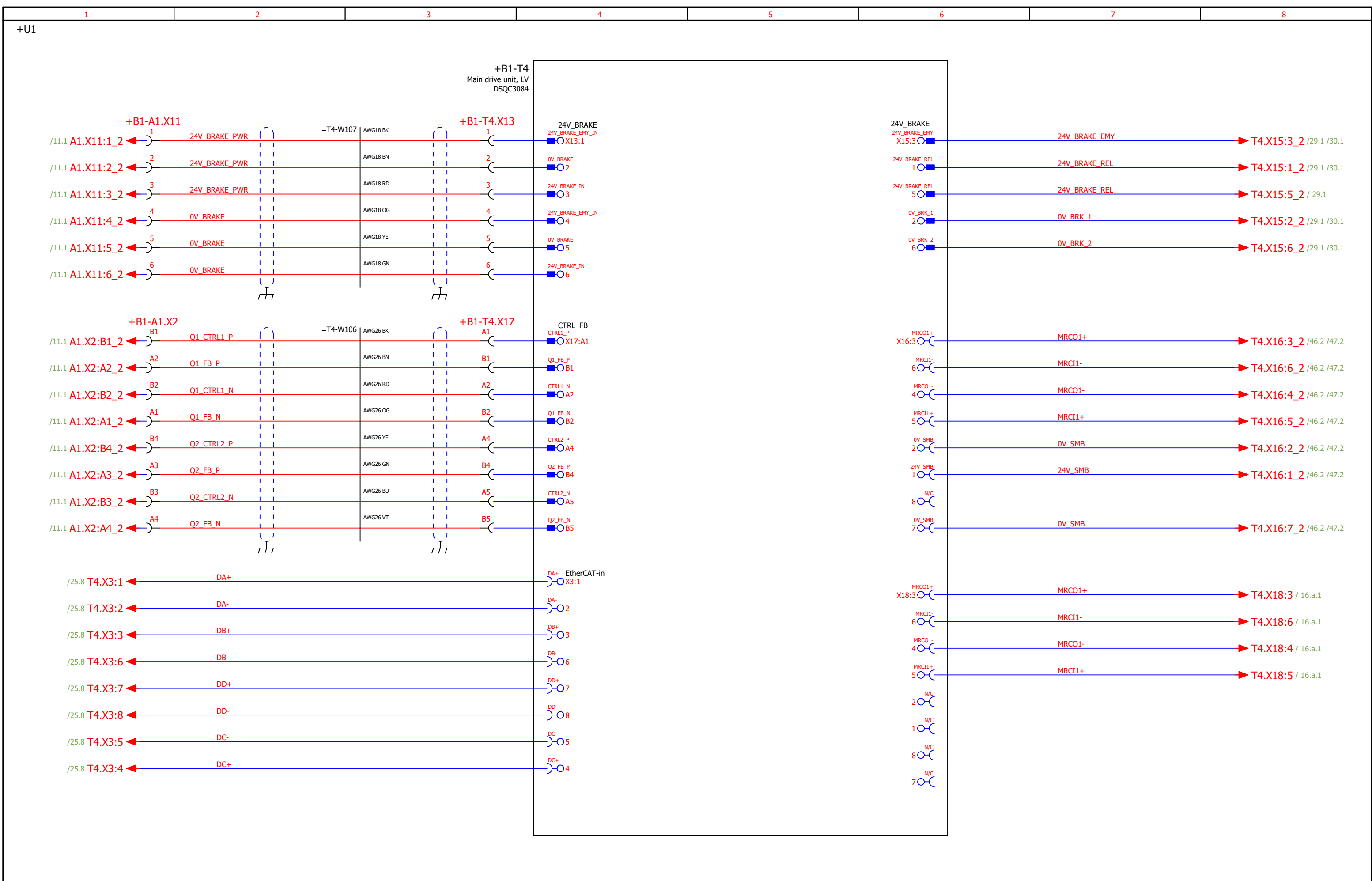
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OmniCore V400XT  
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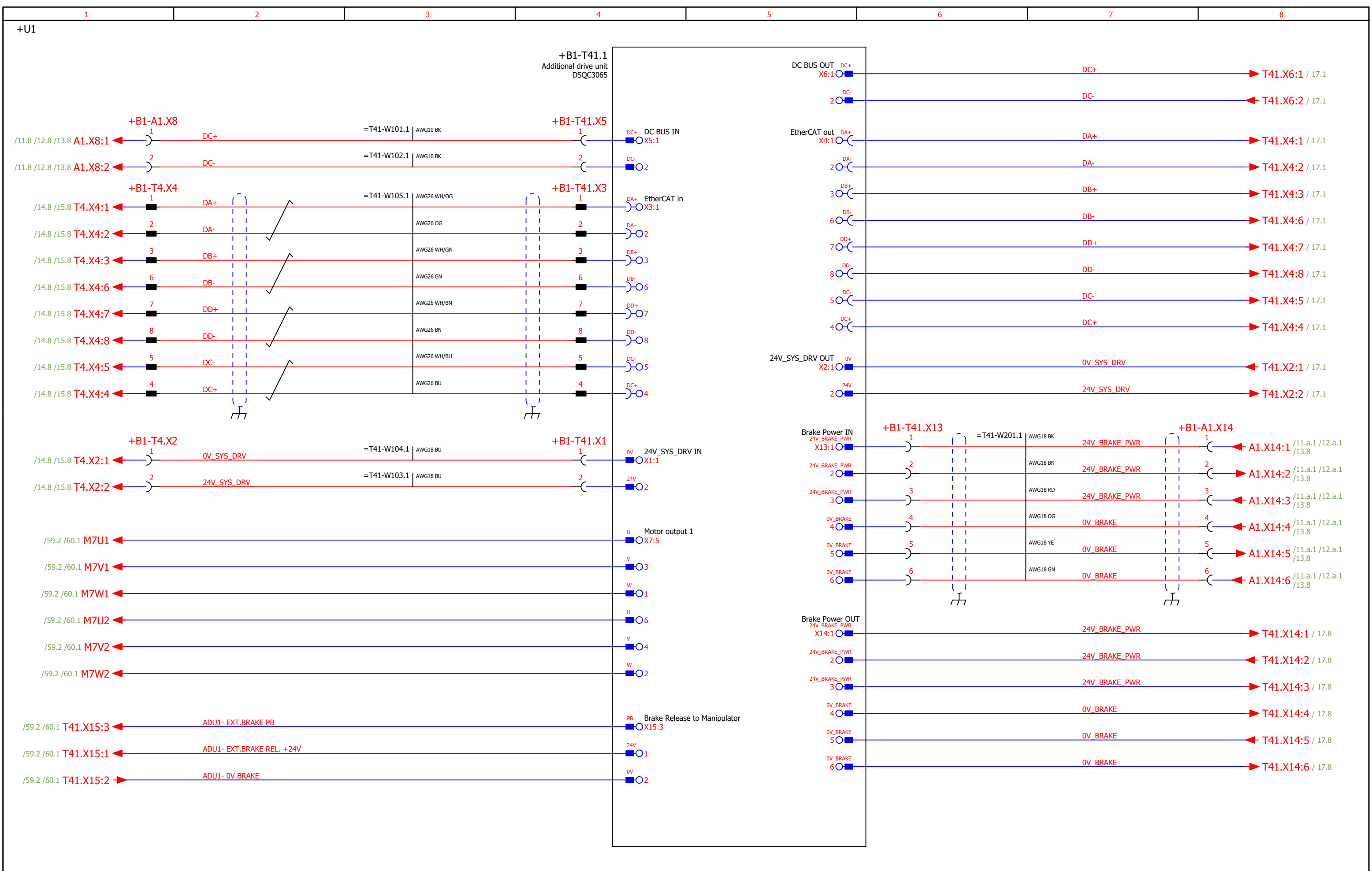
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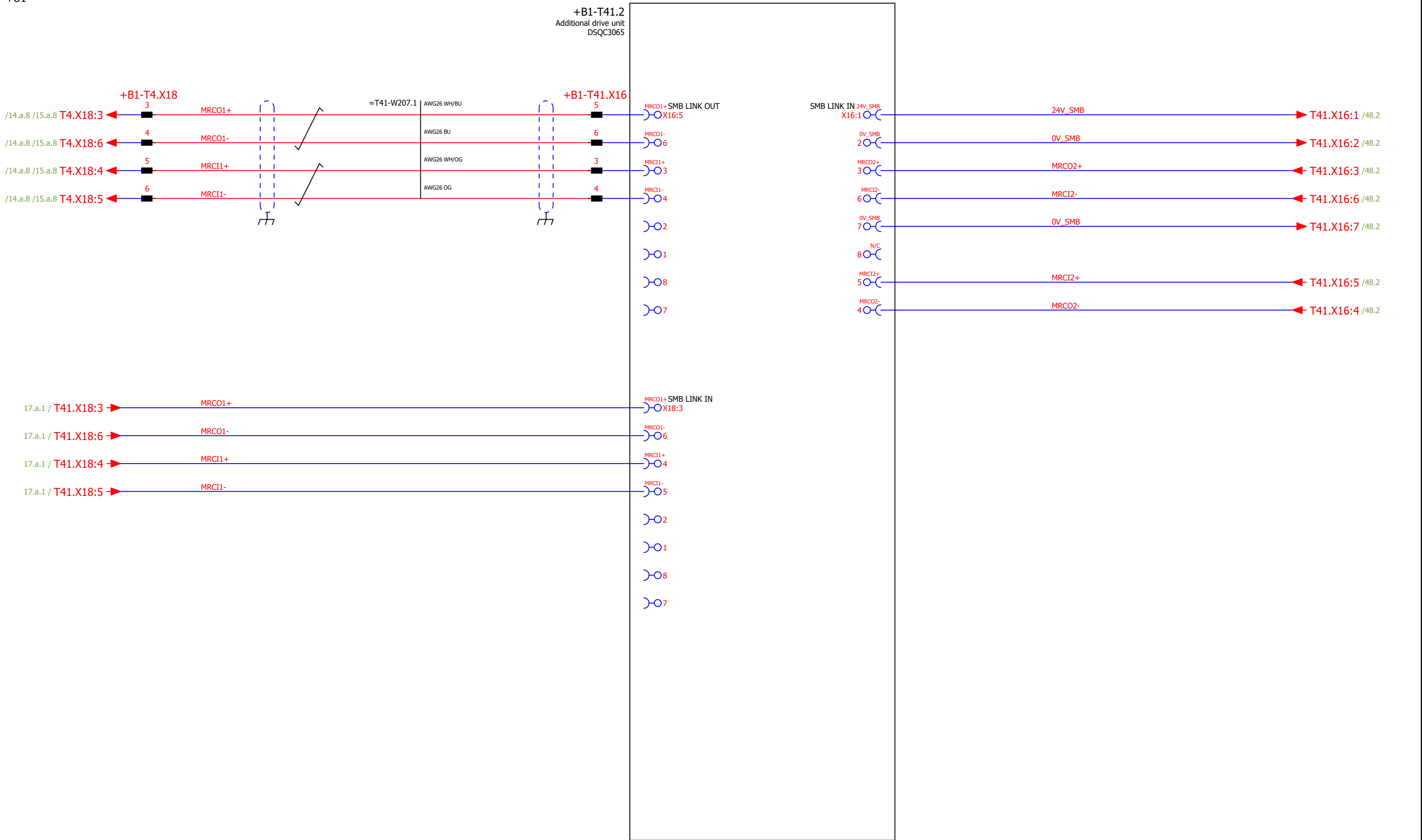
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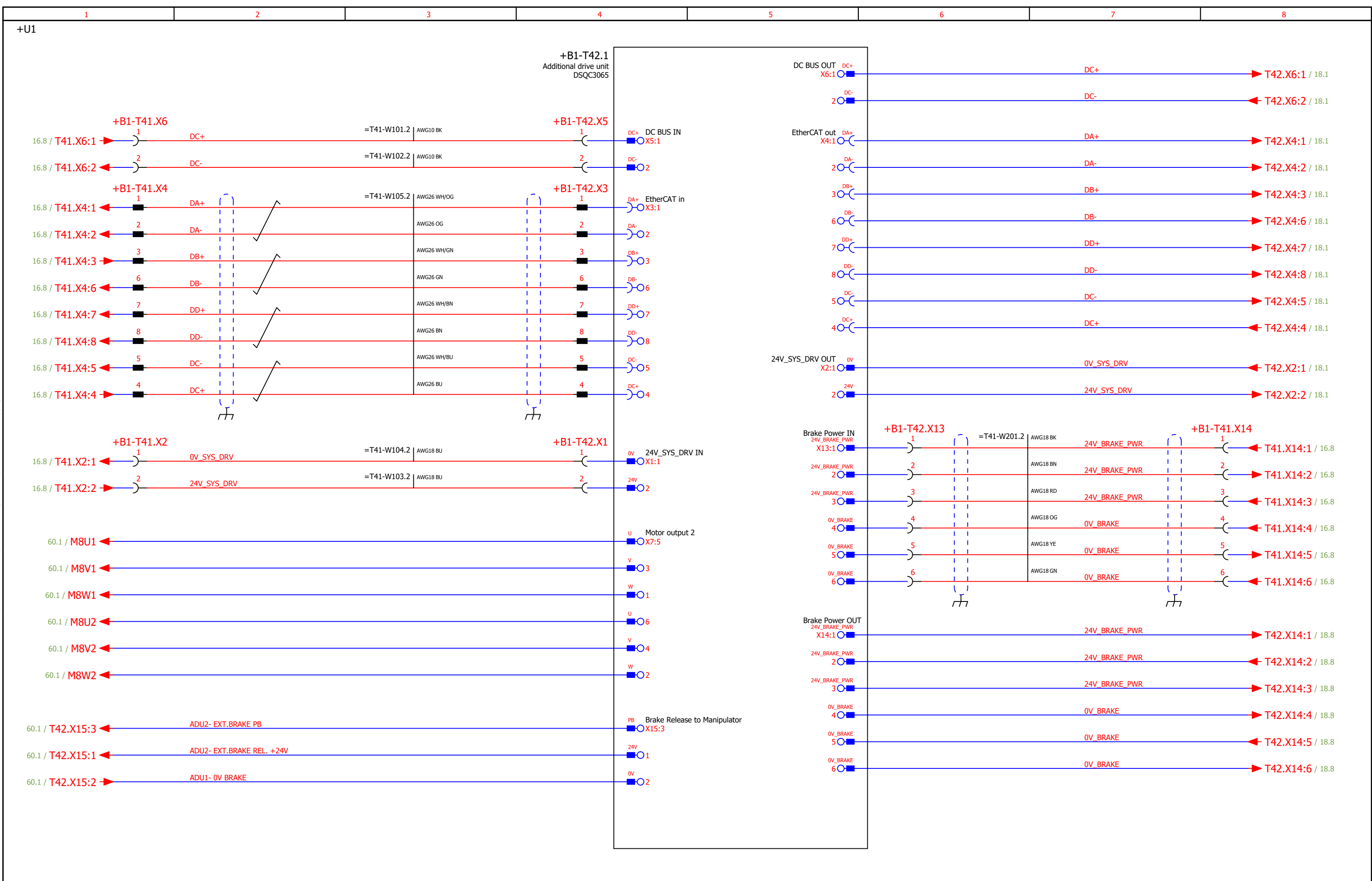
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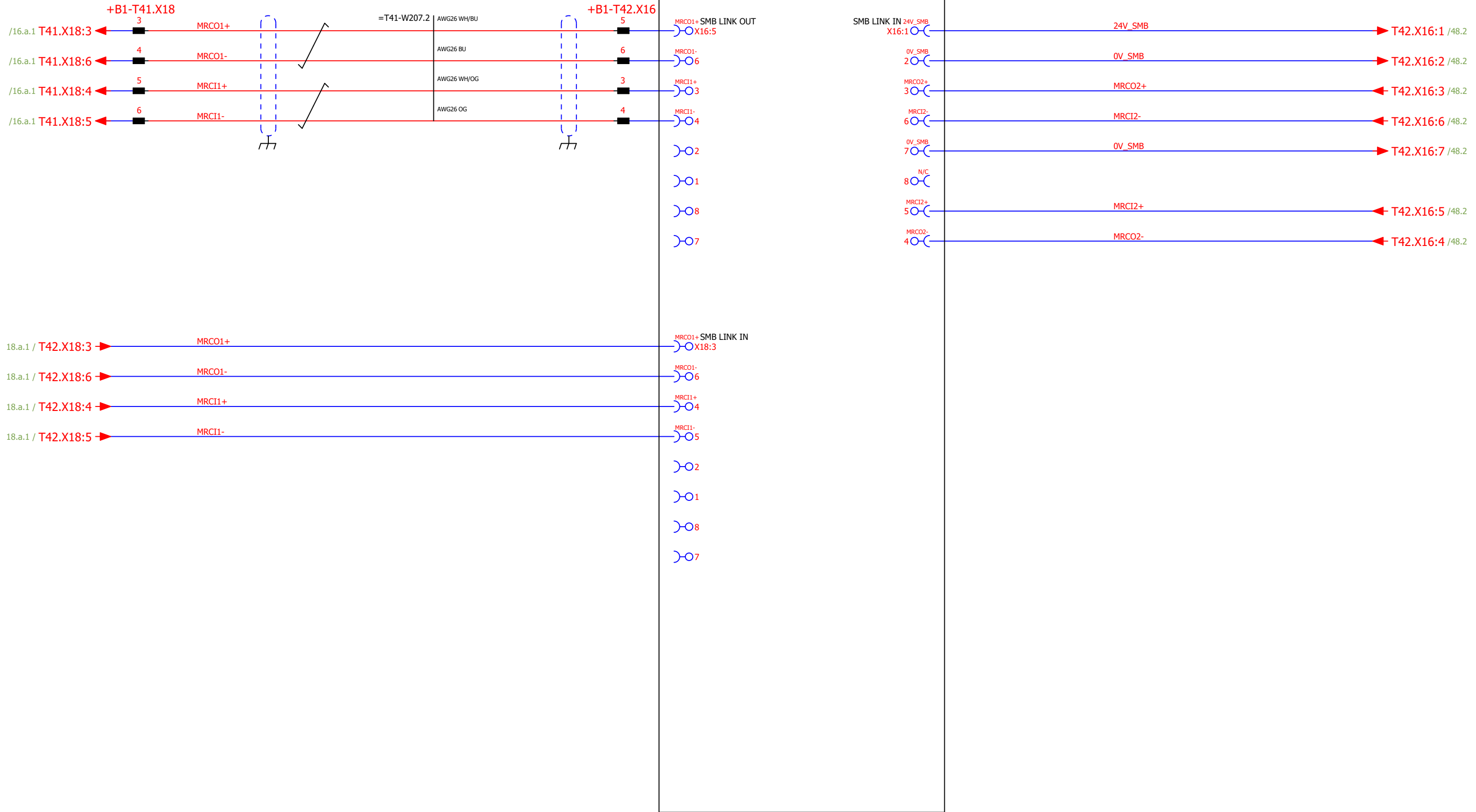
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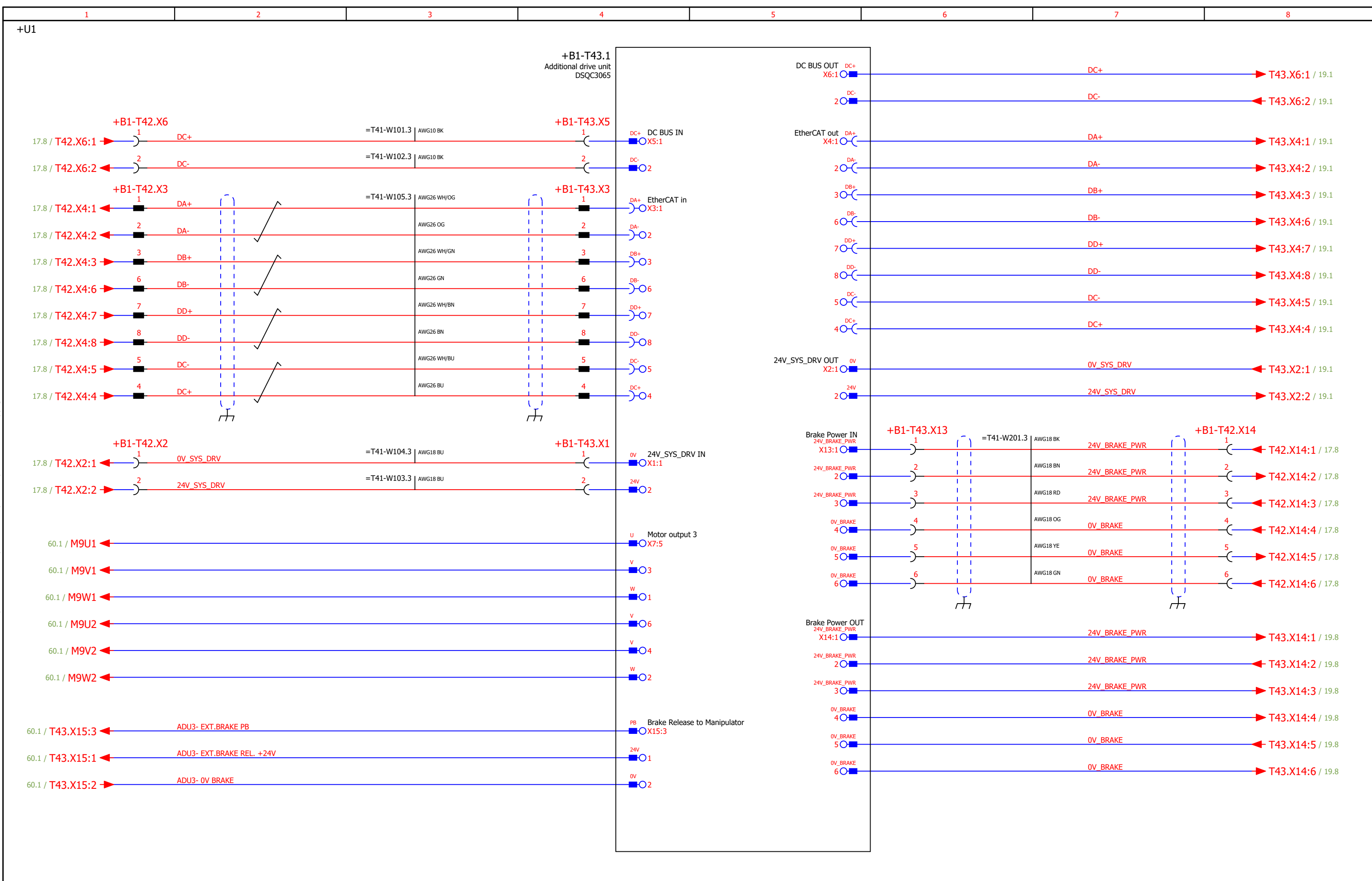
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Additional drive unit  
DSQC3065

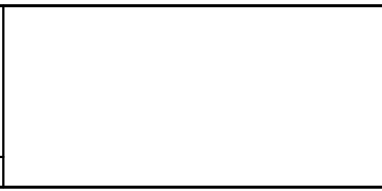


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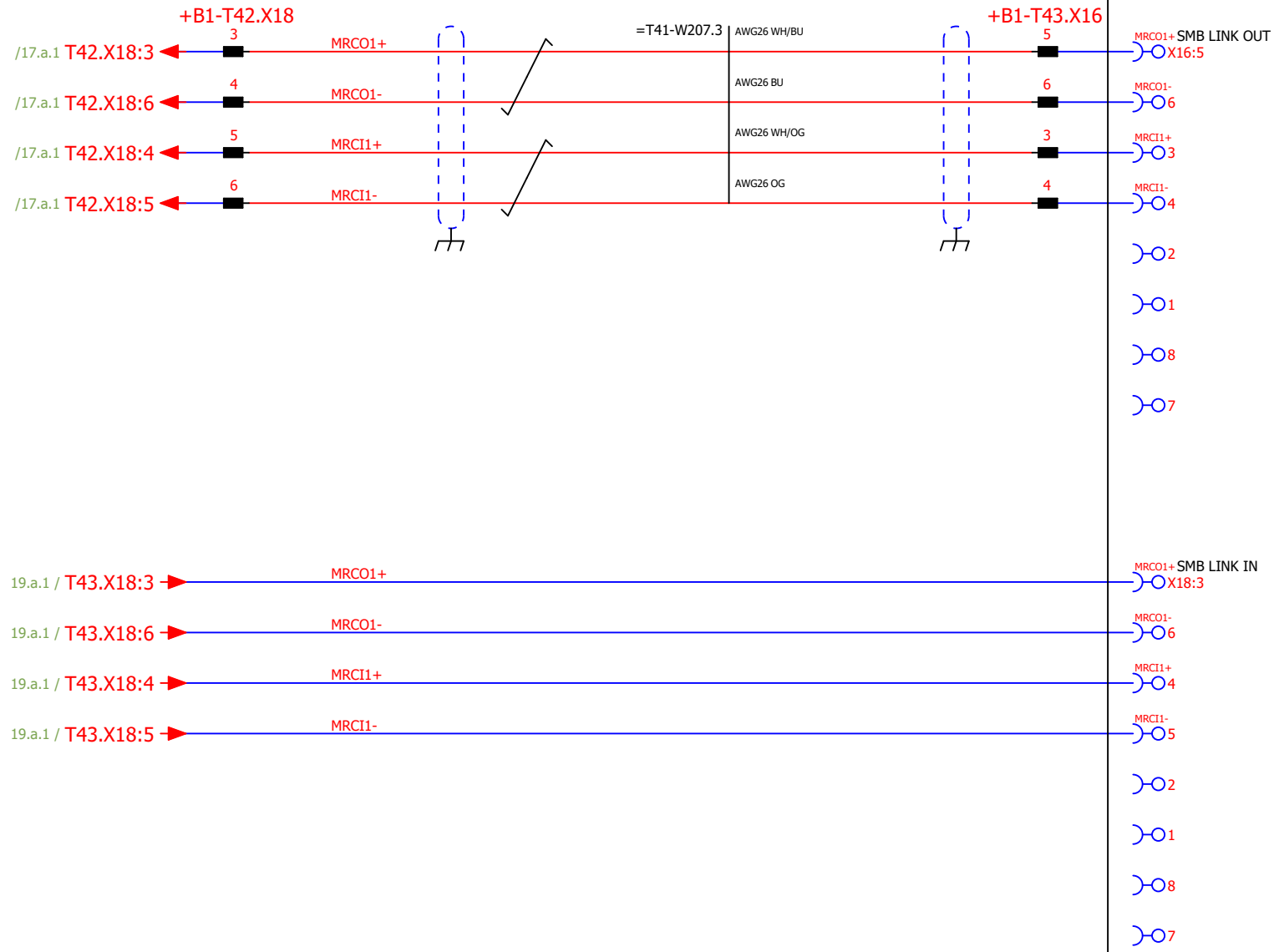
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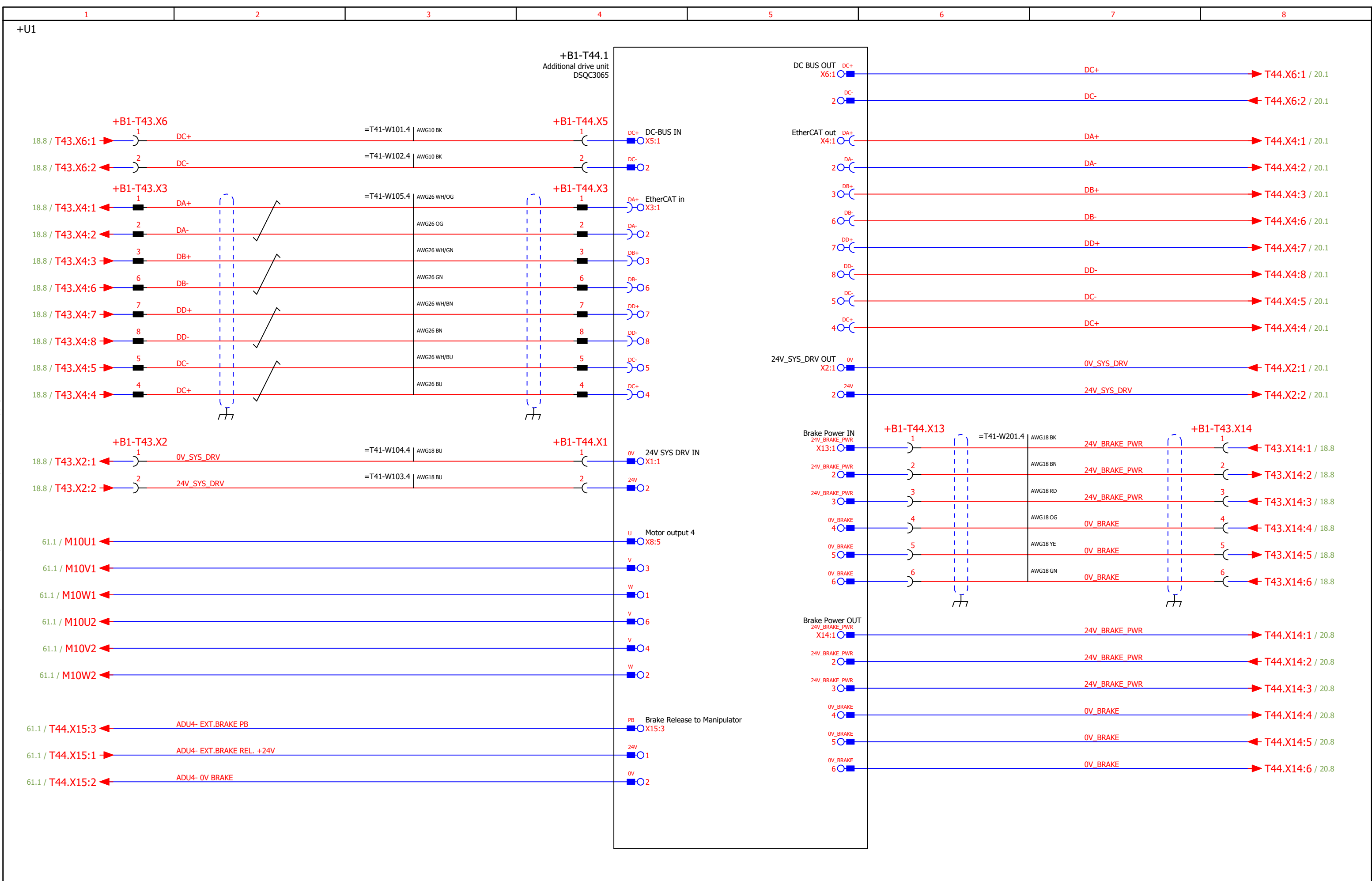
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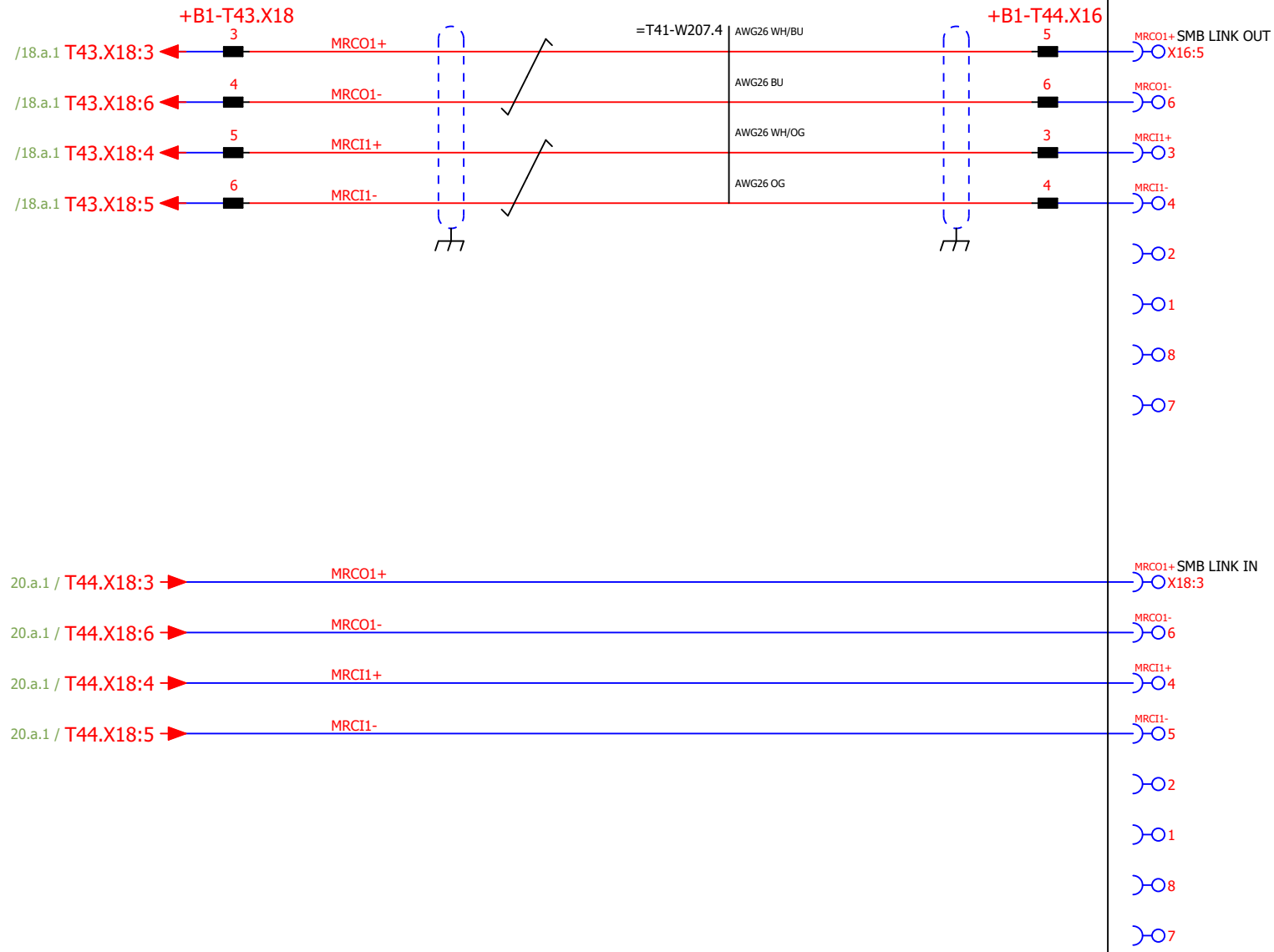


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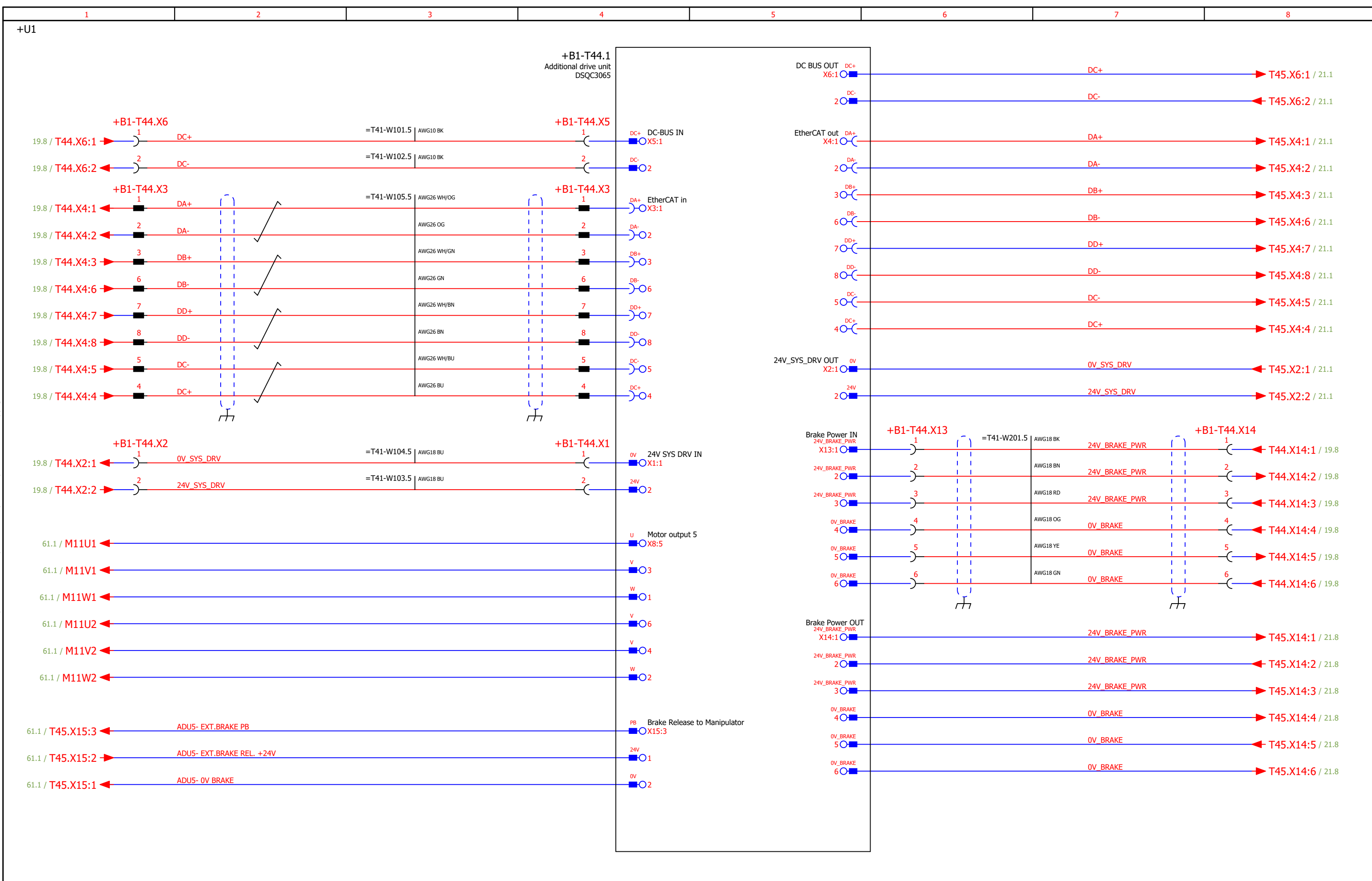
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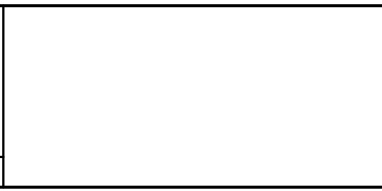
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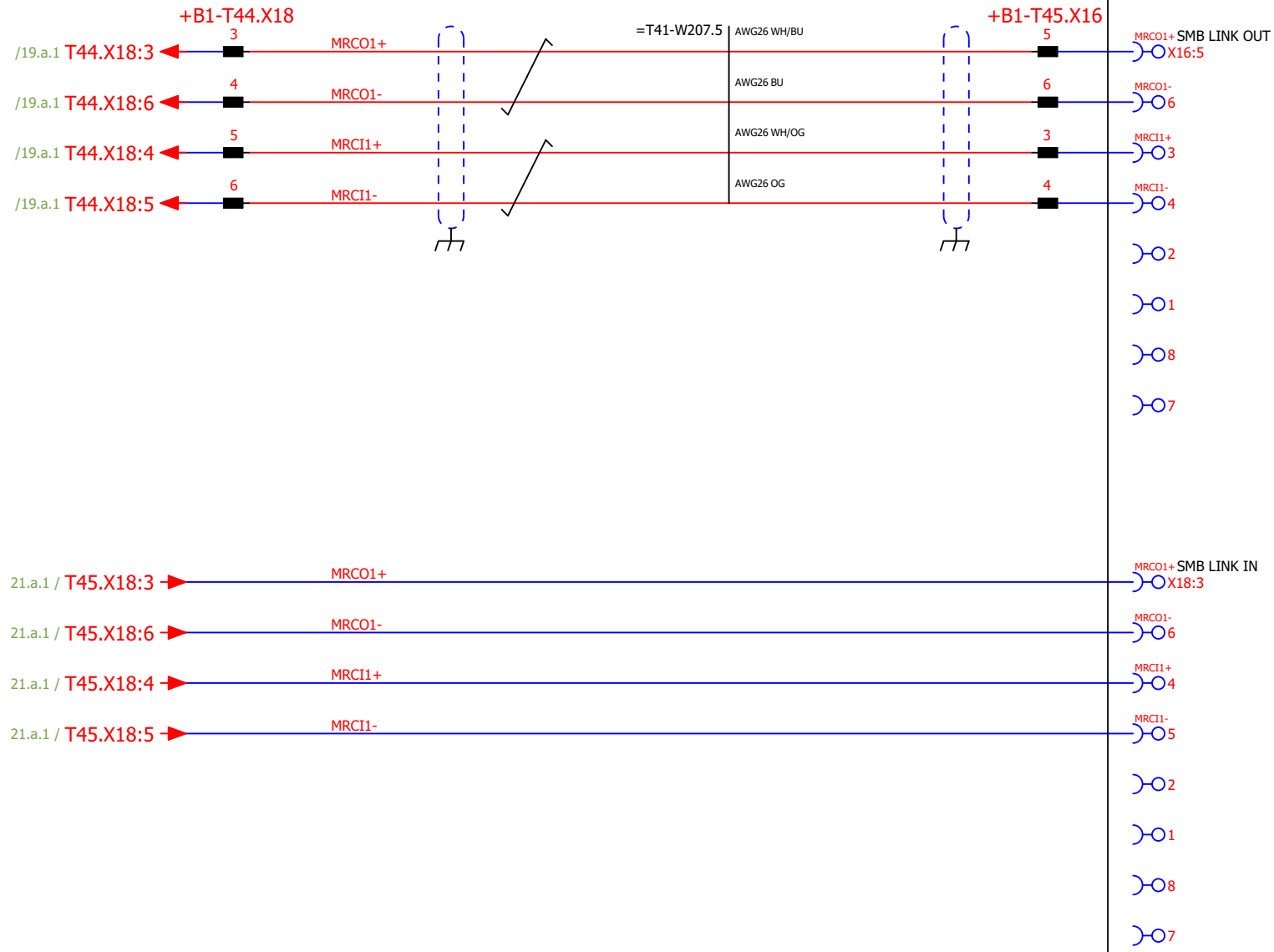
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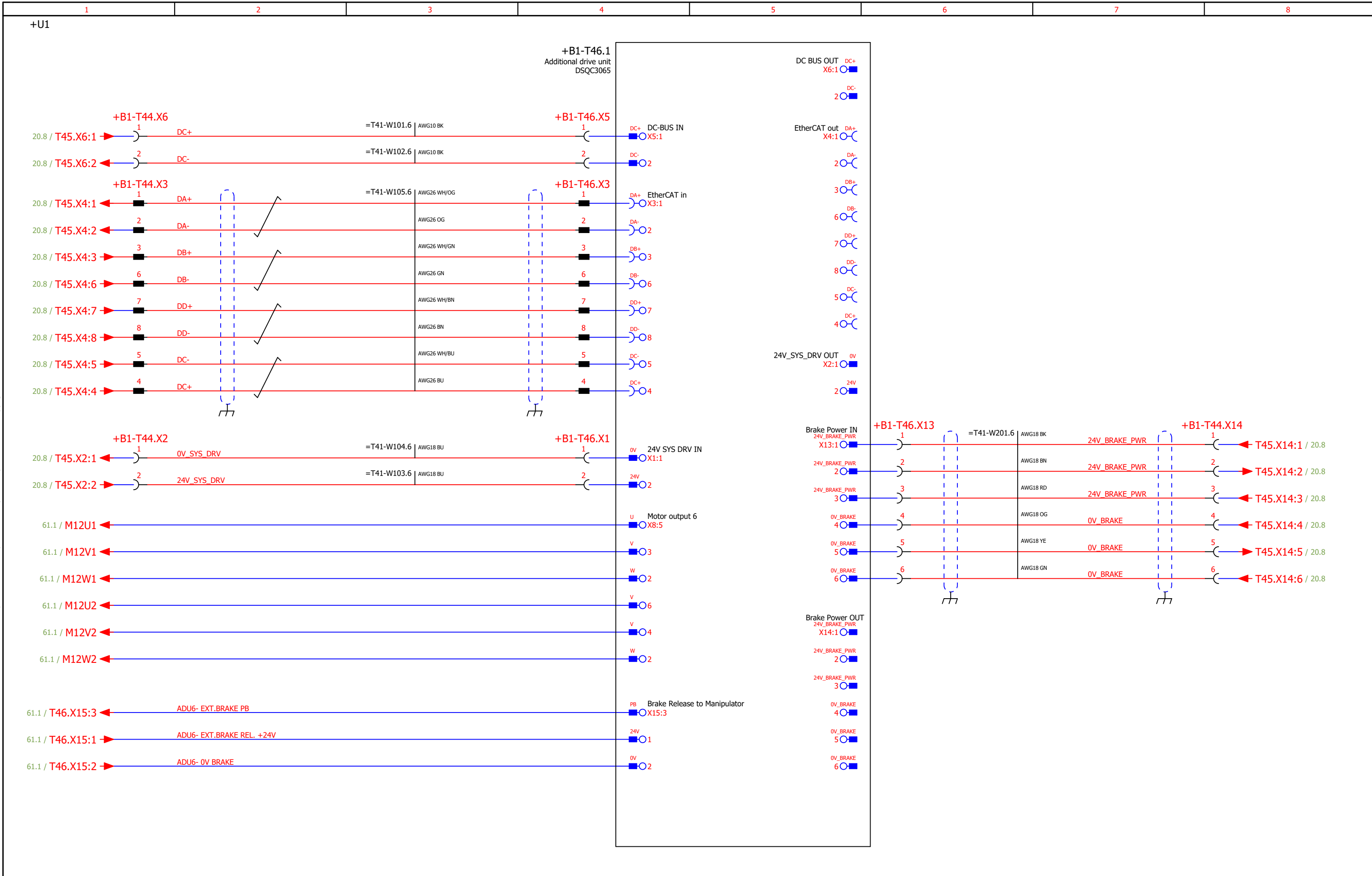
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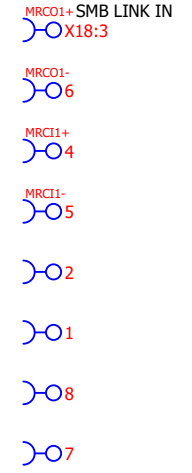
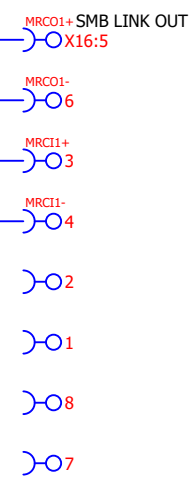
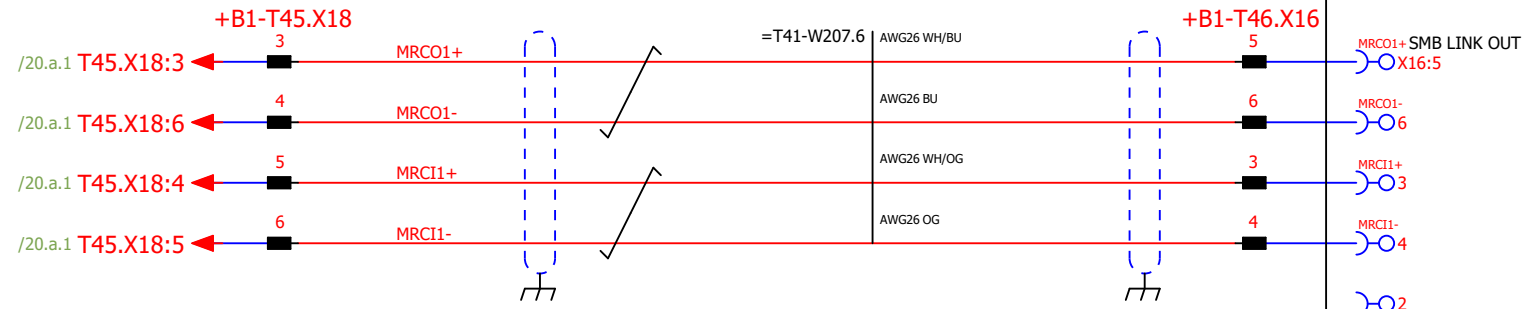
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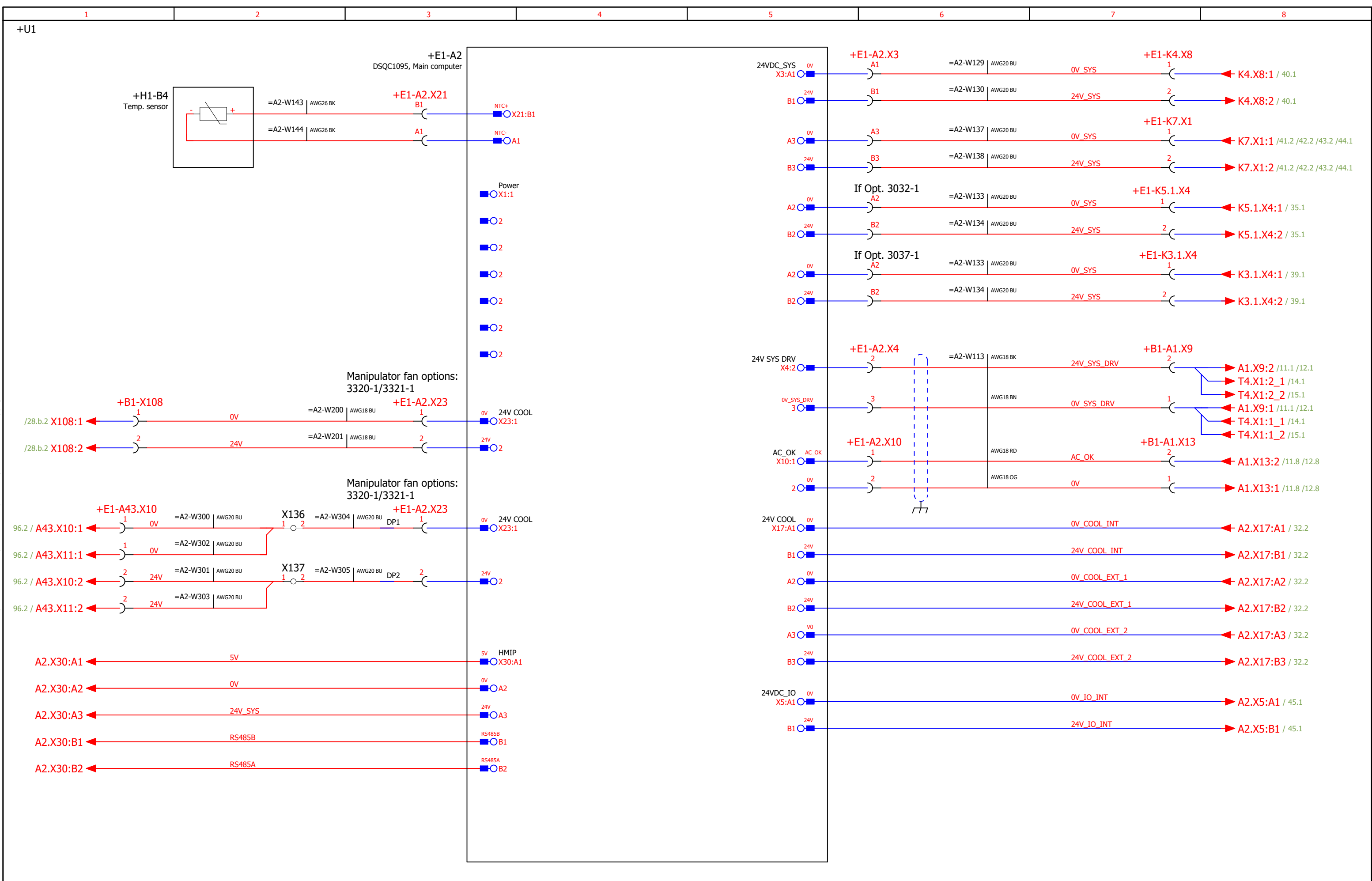
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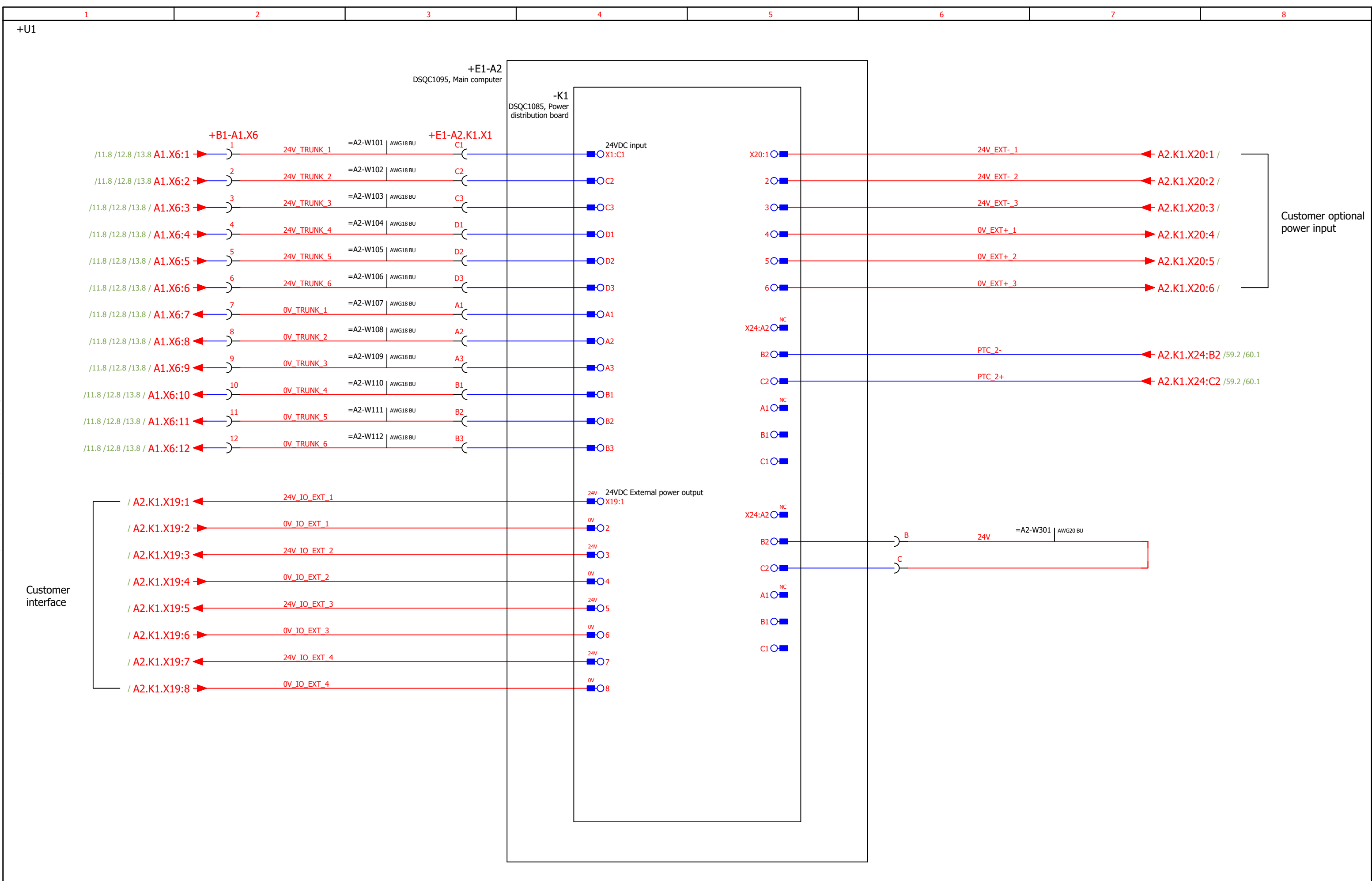
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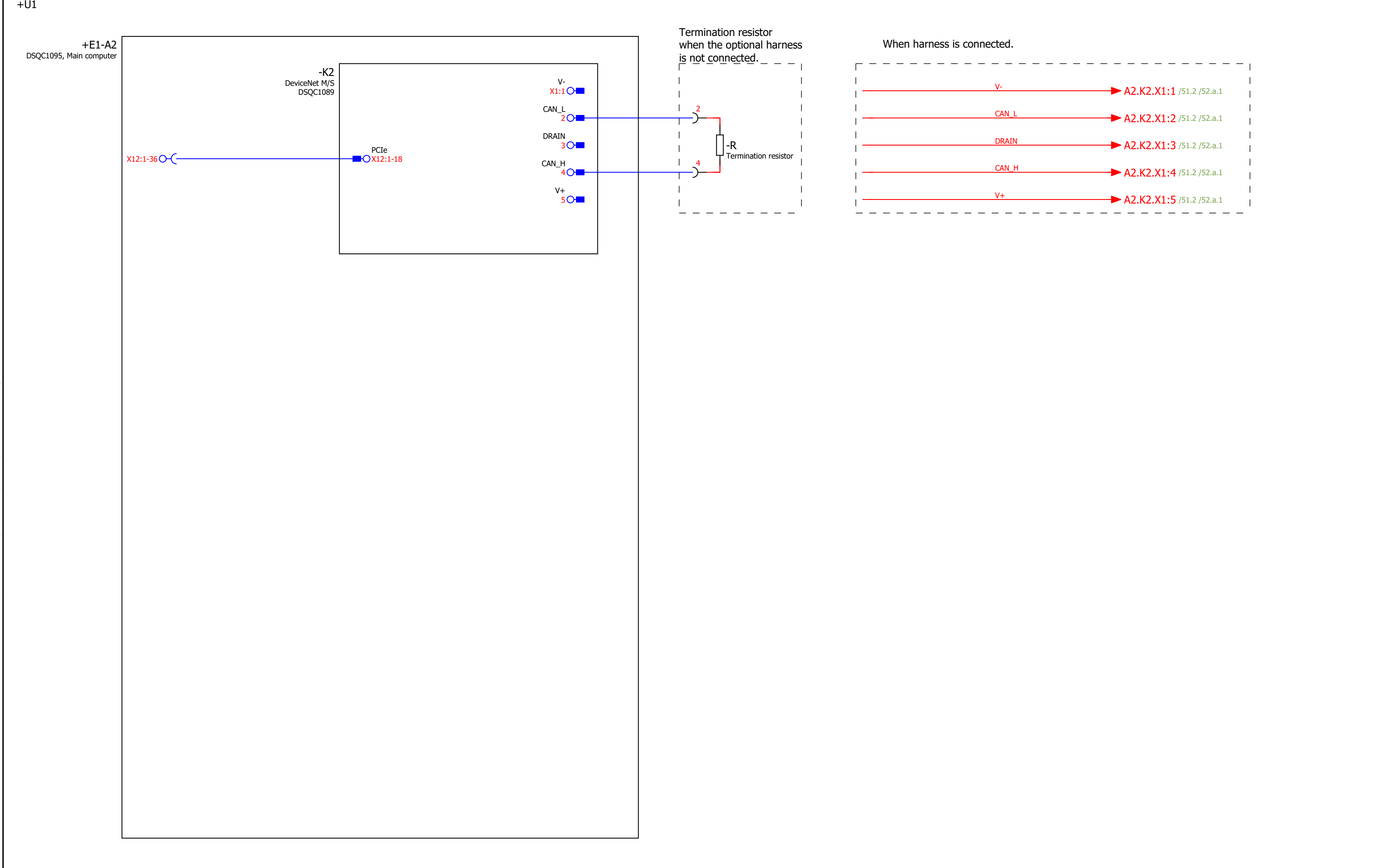
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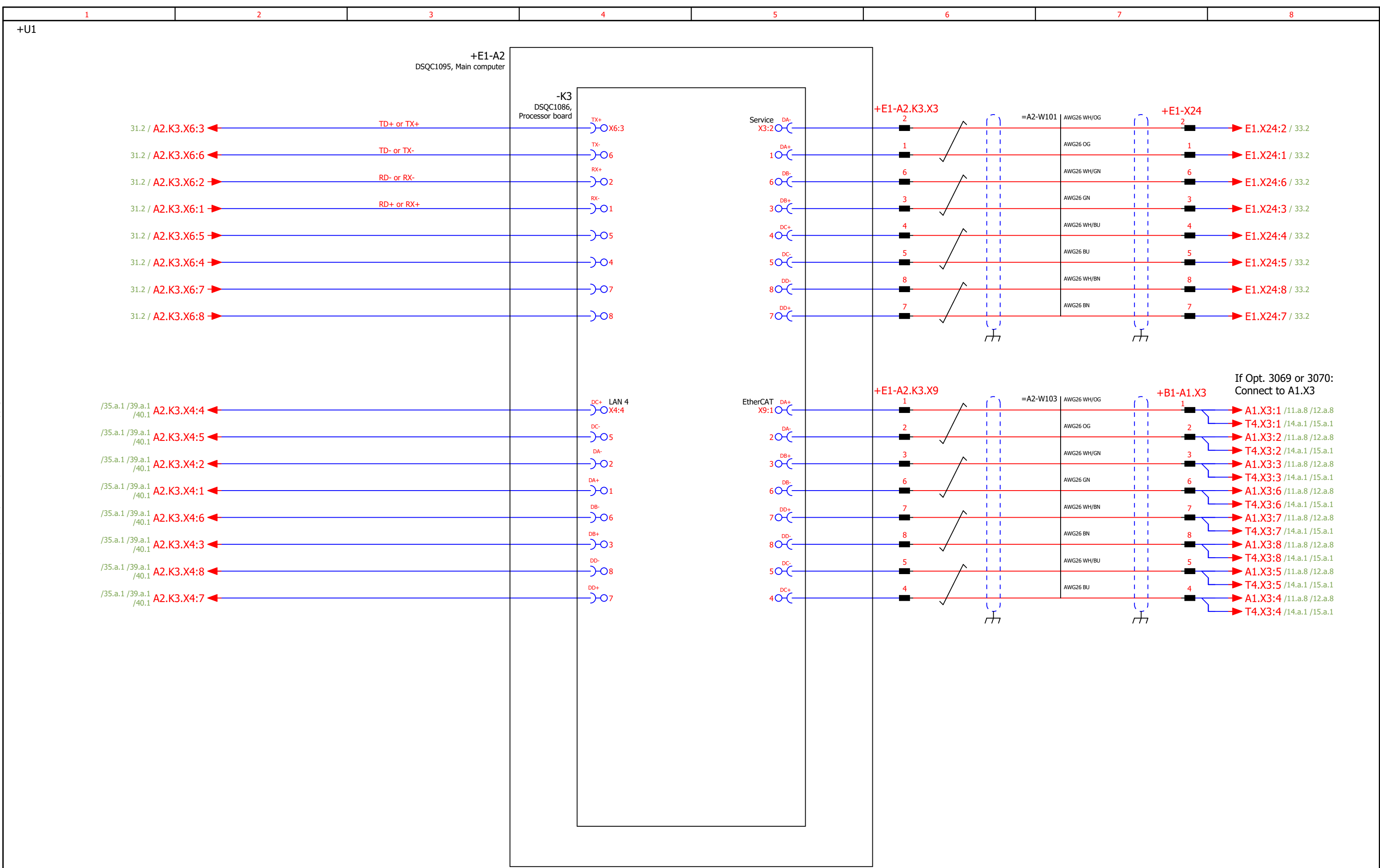
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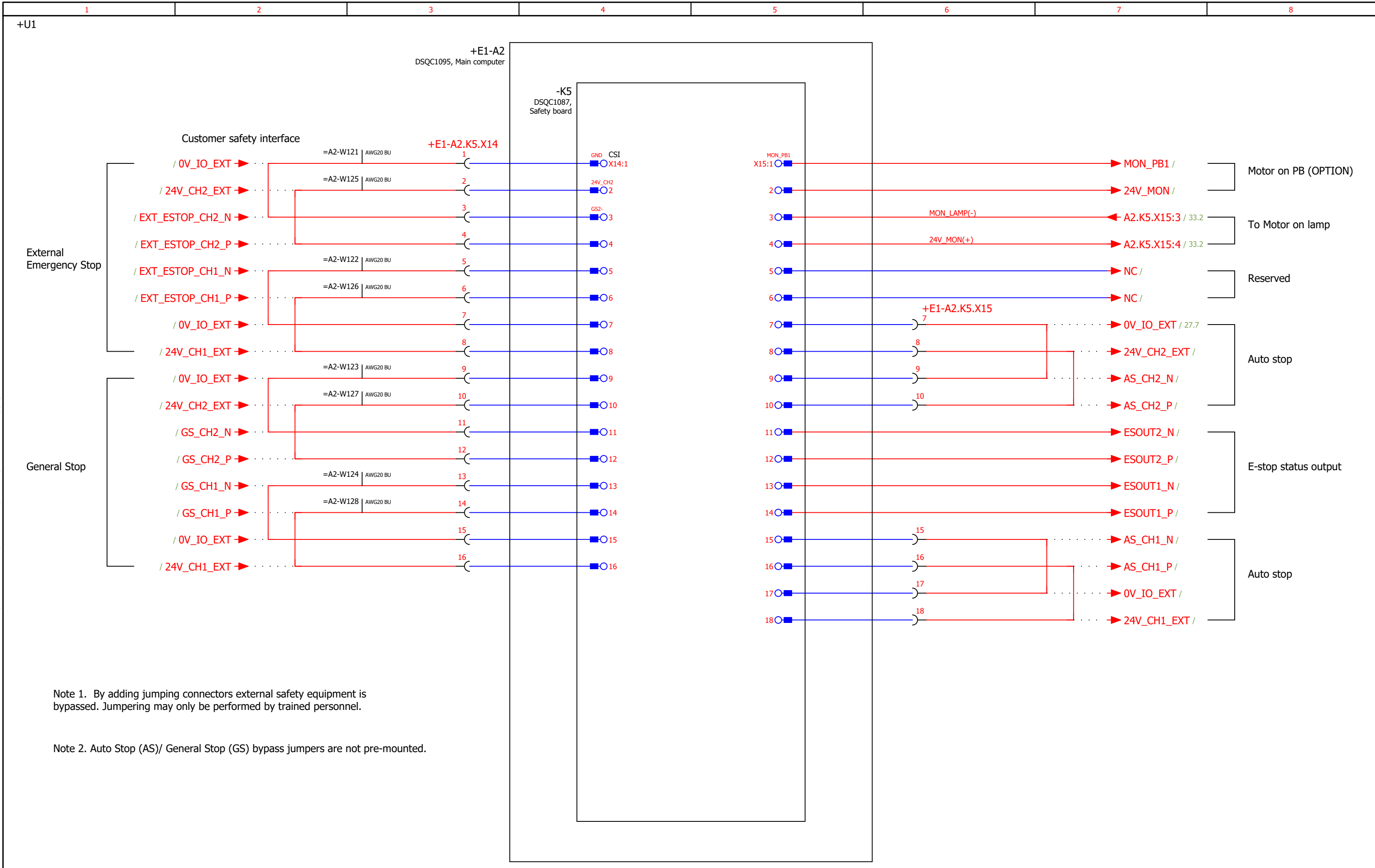
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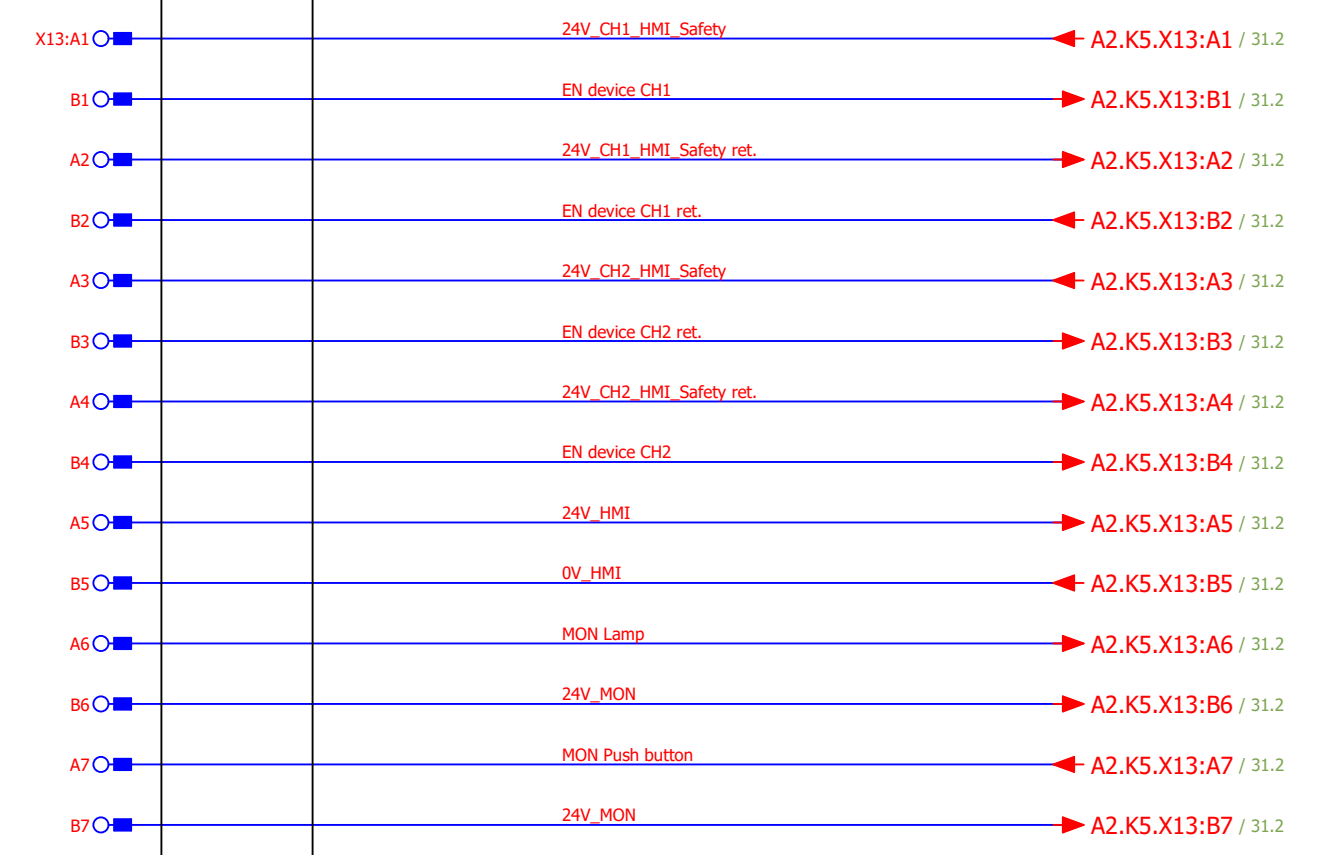
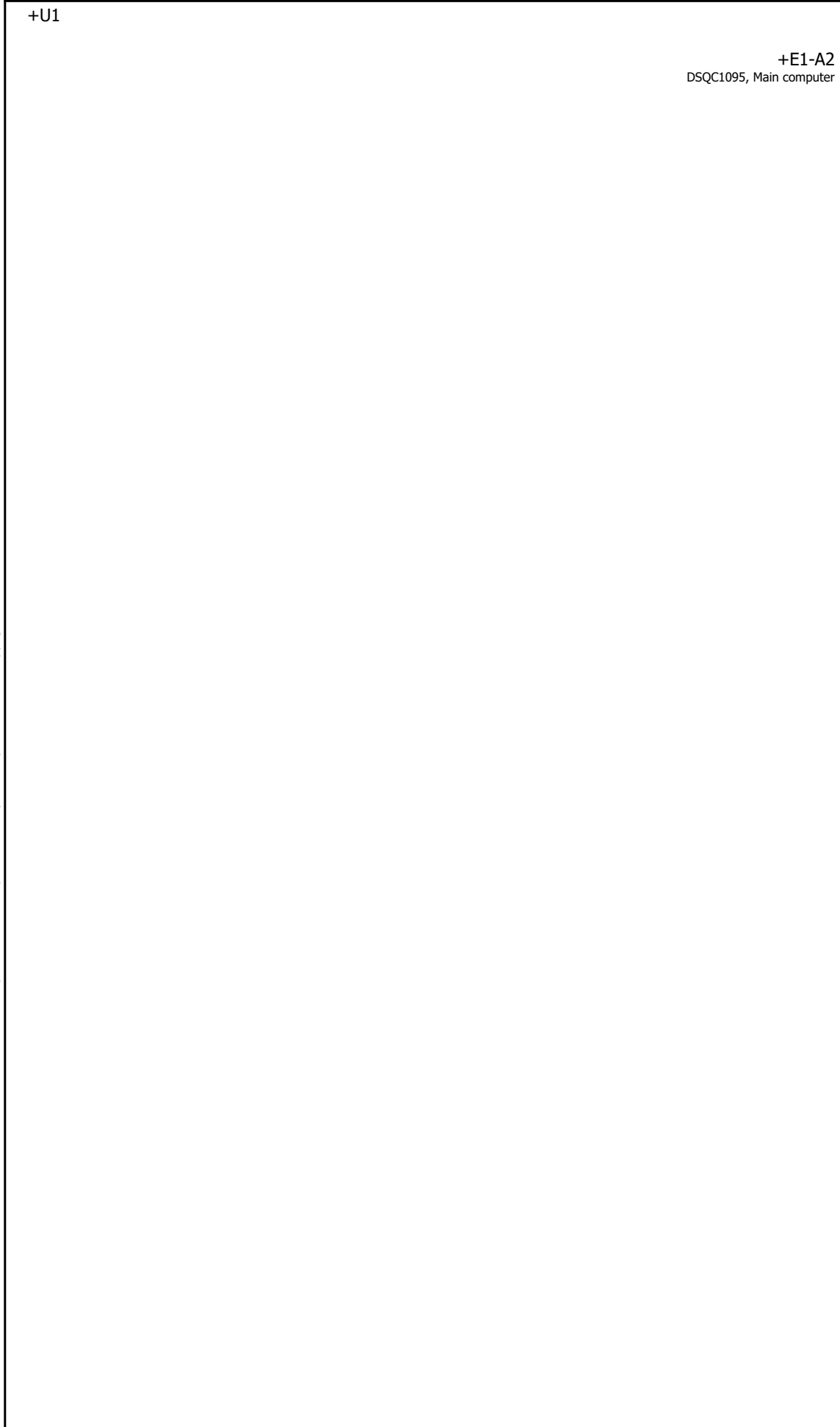


Latest revision:		<b>ABB</b>	Lab/Office:	OmniCore V400XT Switch basic	Status:	APPROVED	Plant:	=
Prepared by, date:	L. Forsgard 2023-10-16		Approved by, date:	P. Carlsson 2023-10-20		Document no.	3HAC082020-008	Location:
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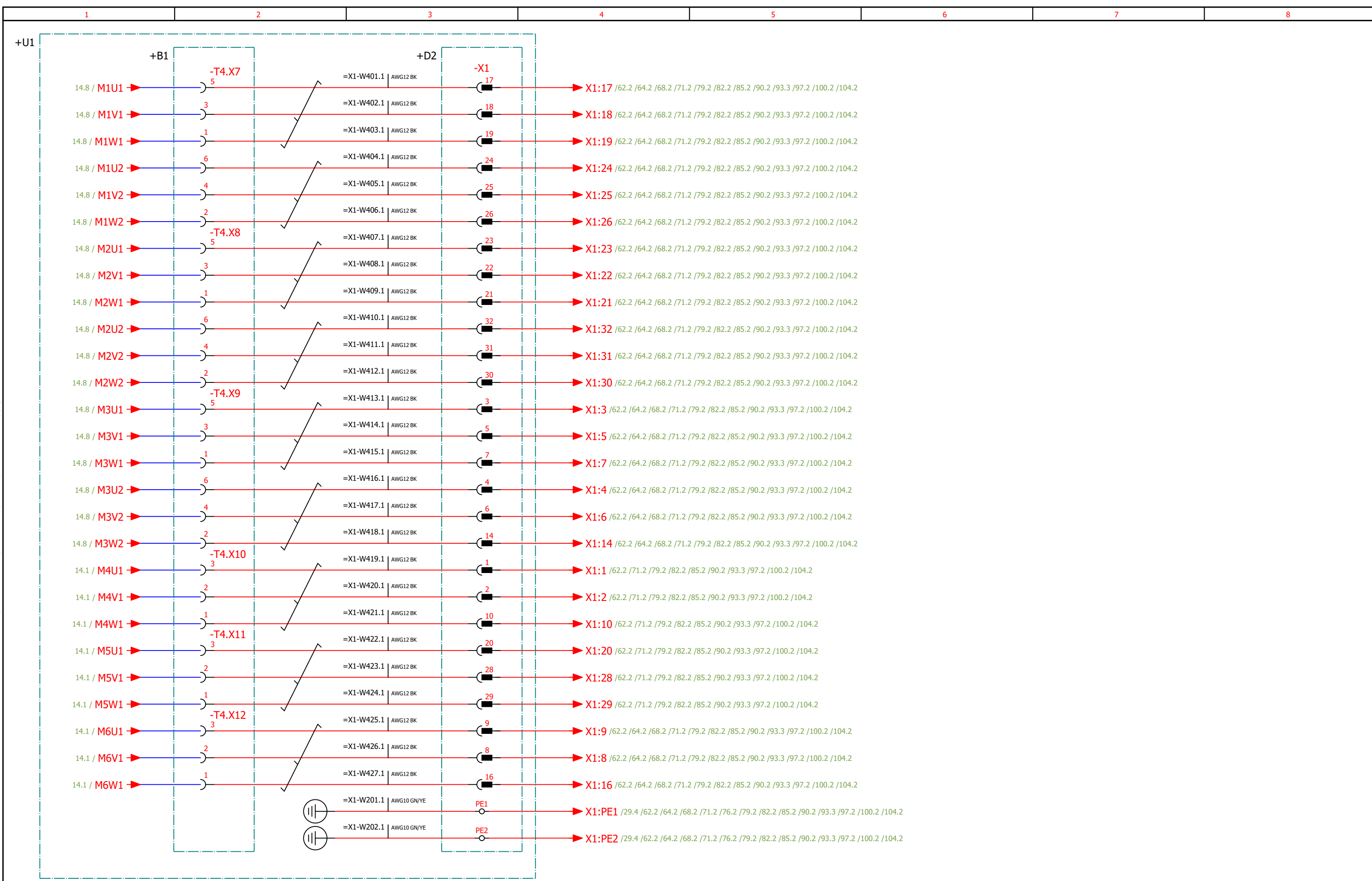


Note 1. By adding jumping connectors external safety equipment is bypassed. Jumping may only be performed by trained personnel.

Note 2. Auto Stop (AS)/ General Stop (GS) bypass jumpers are not pre-mounted.

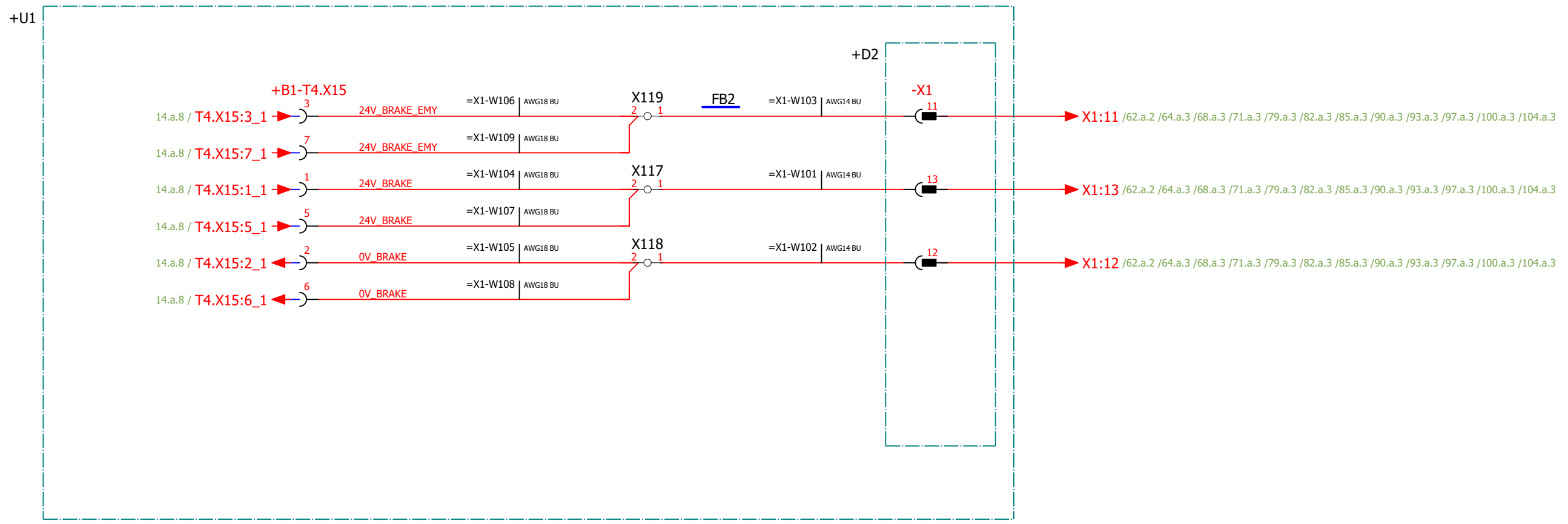


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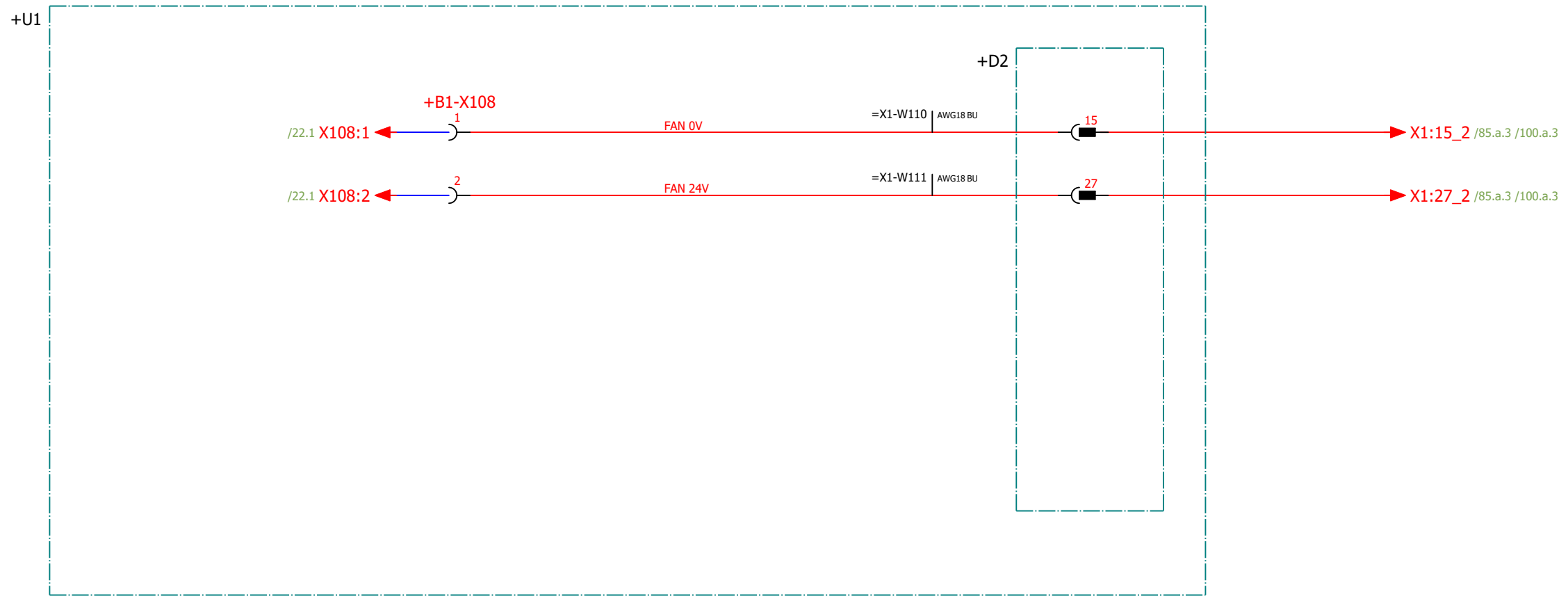
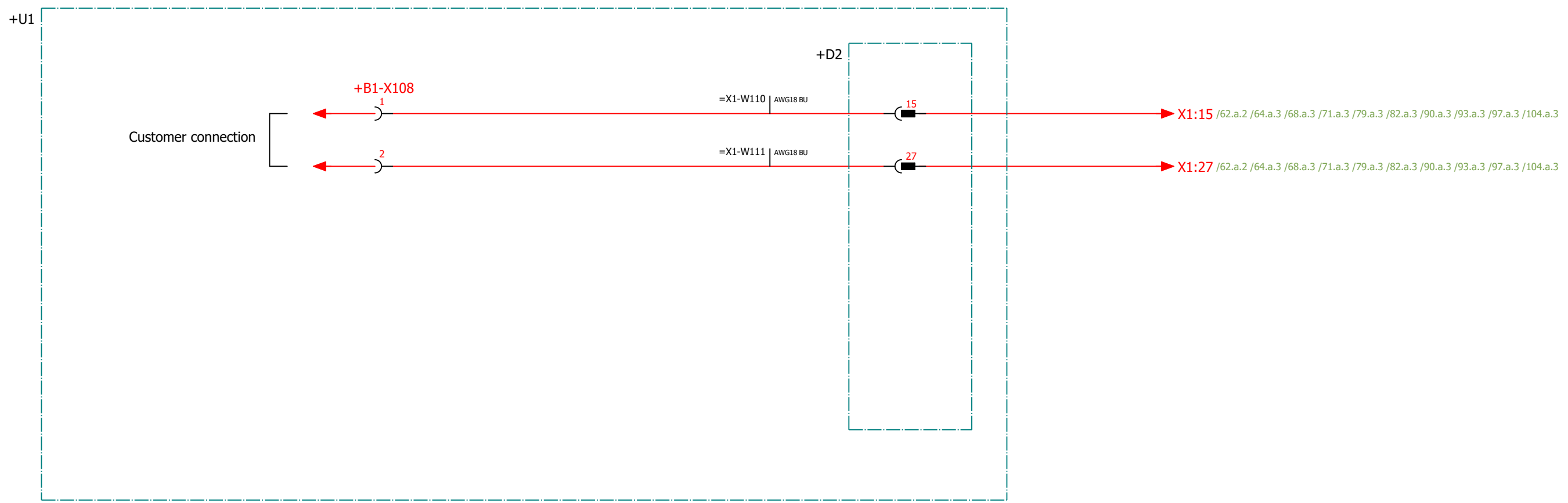
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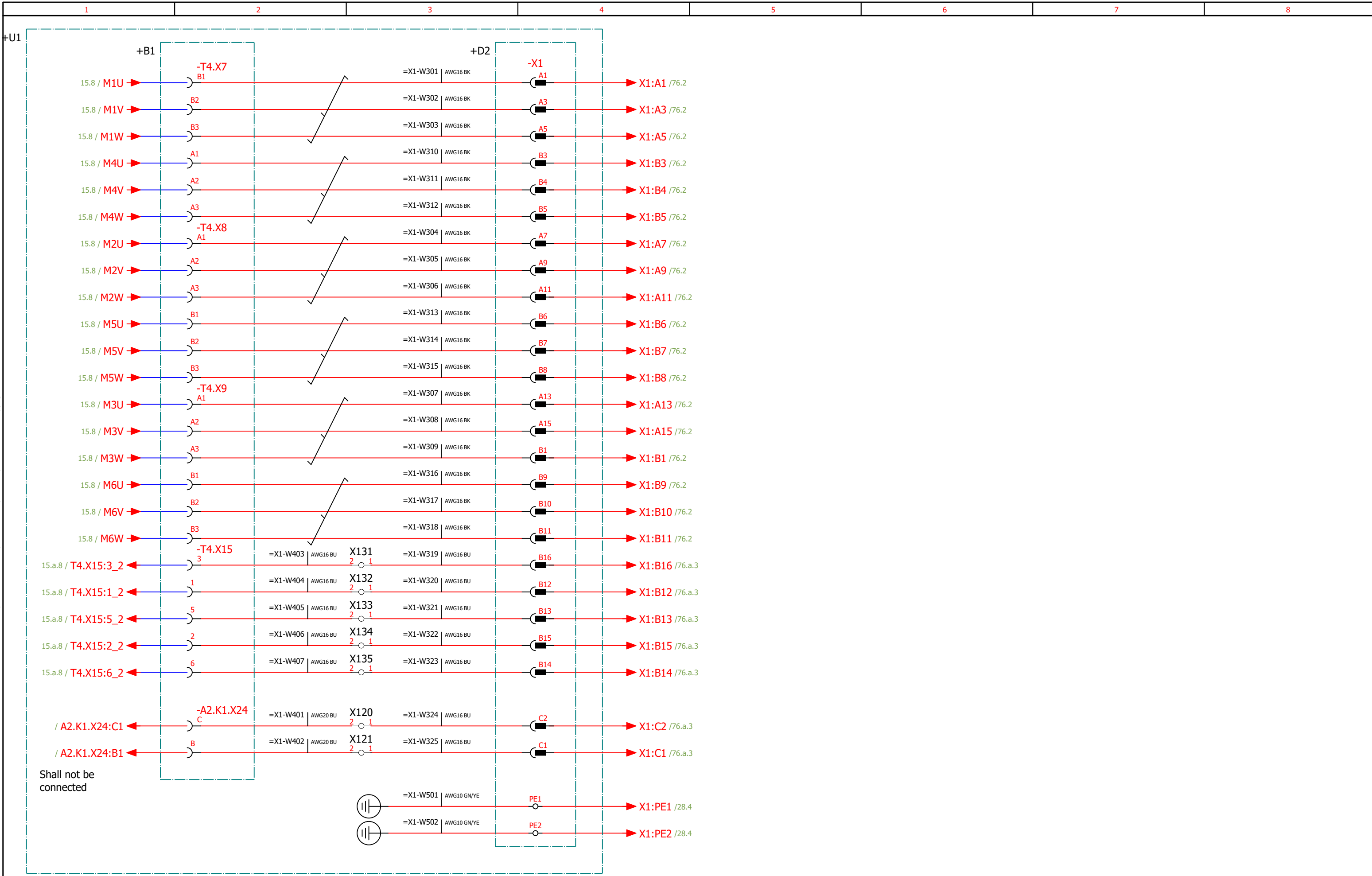
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OmniCore V400XT  
Control cable HV

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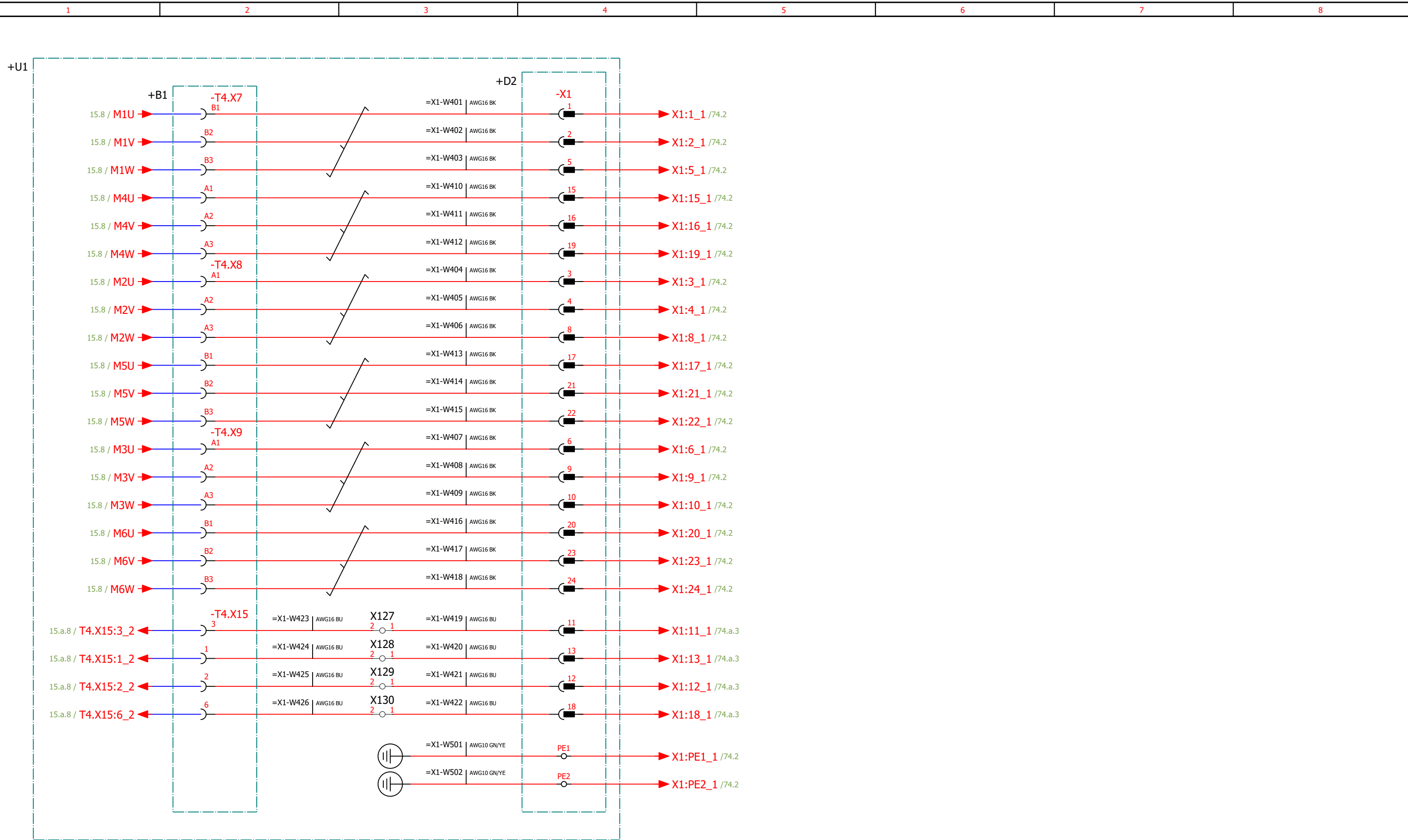
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OmniCore V400XT  
Servo drive system LV

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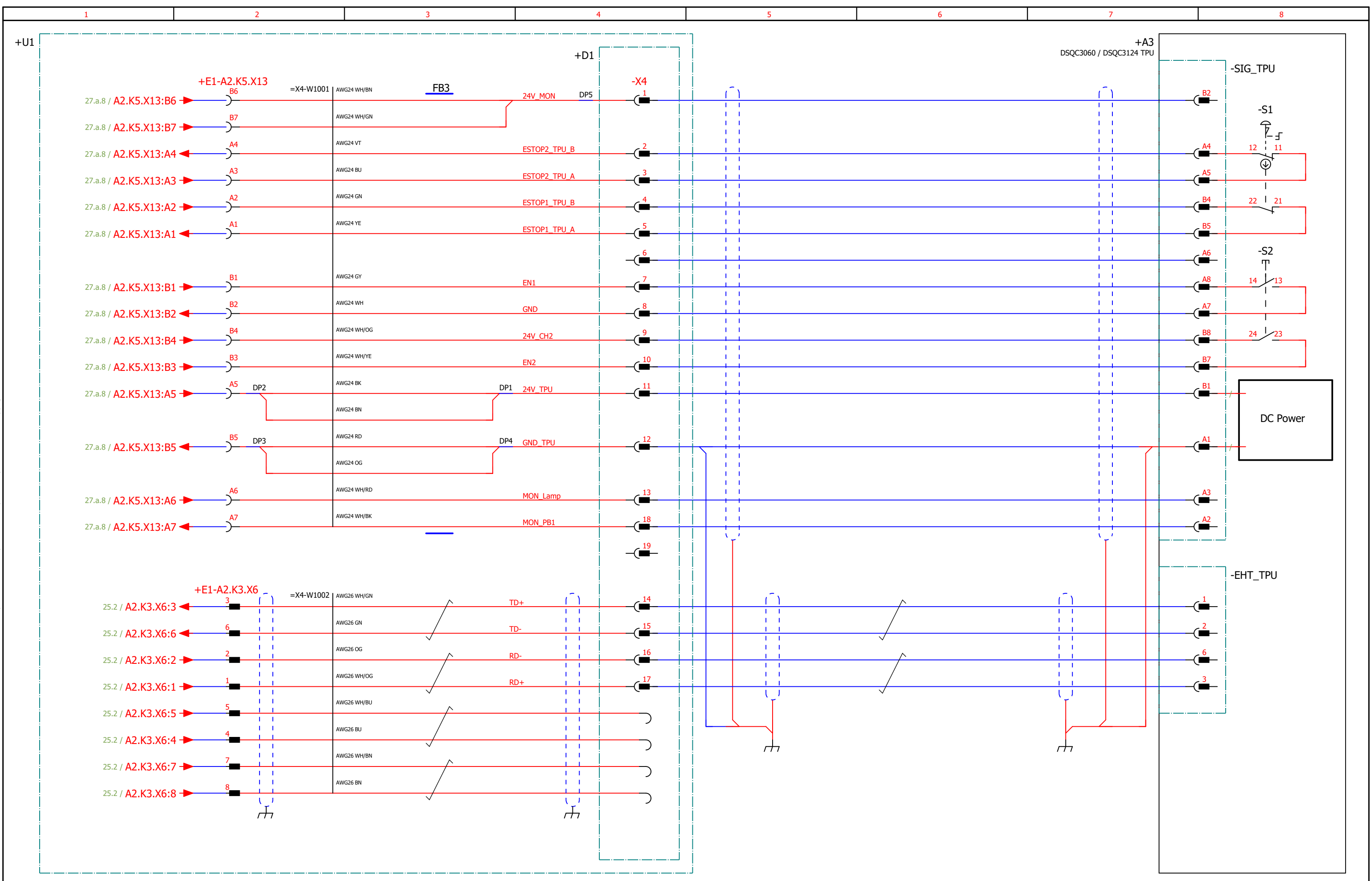
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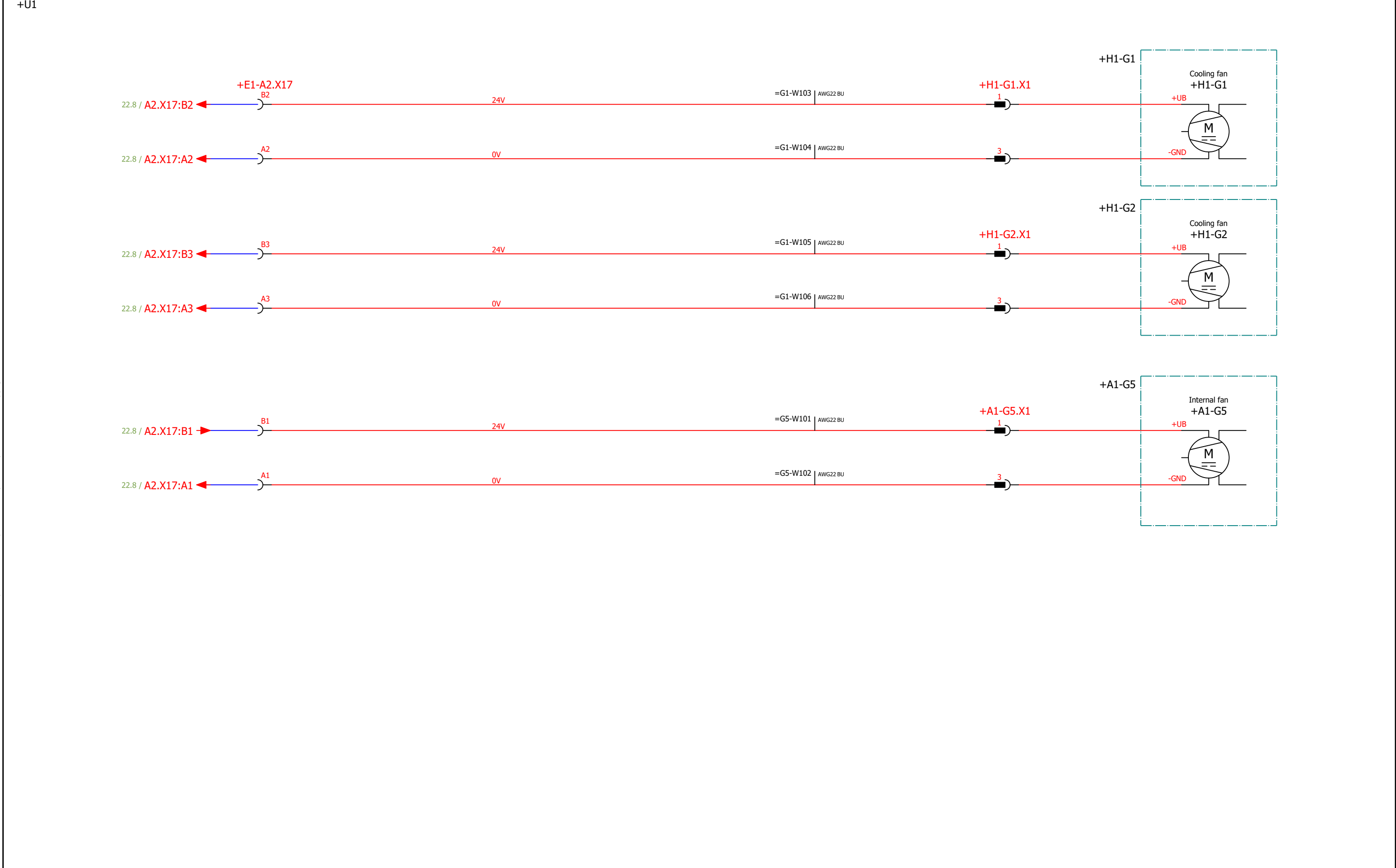
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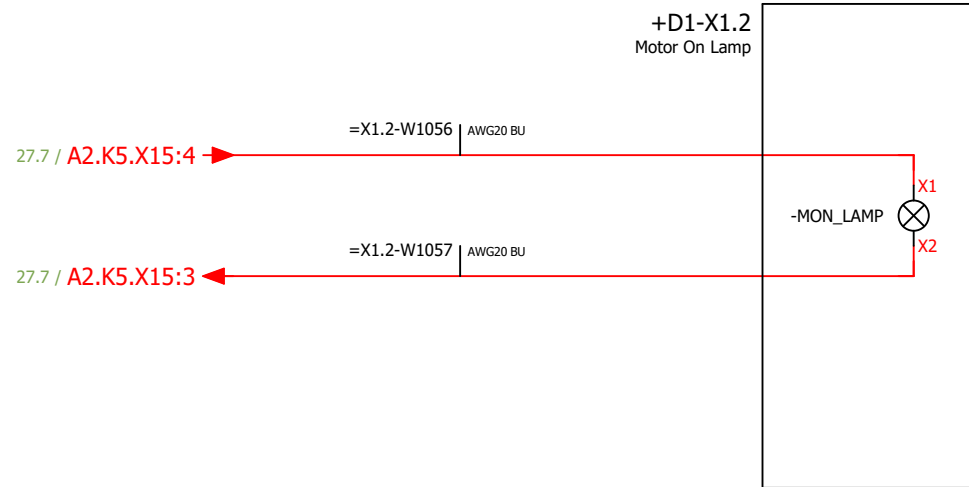
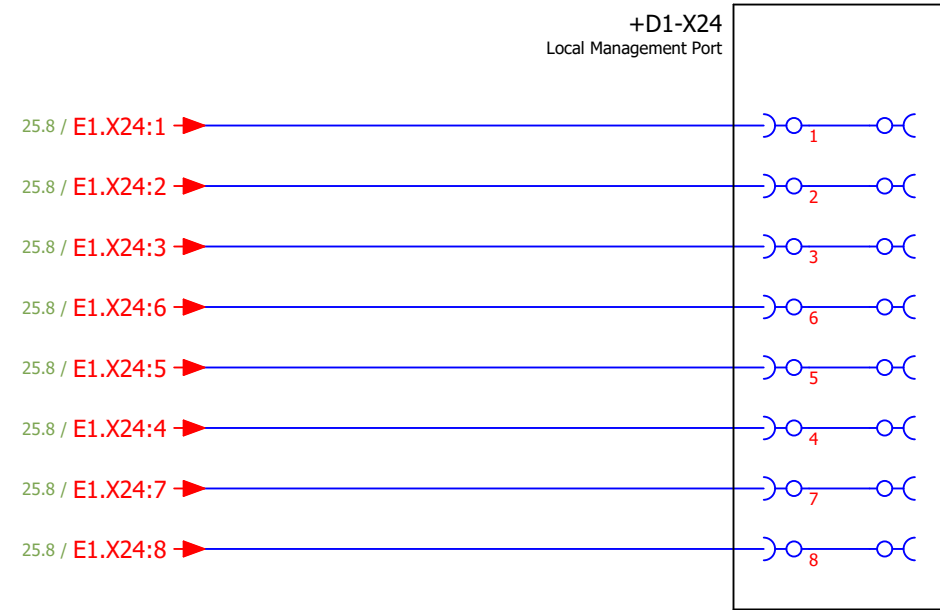
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TPU connection

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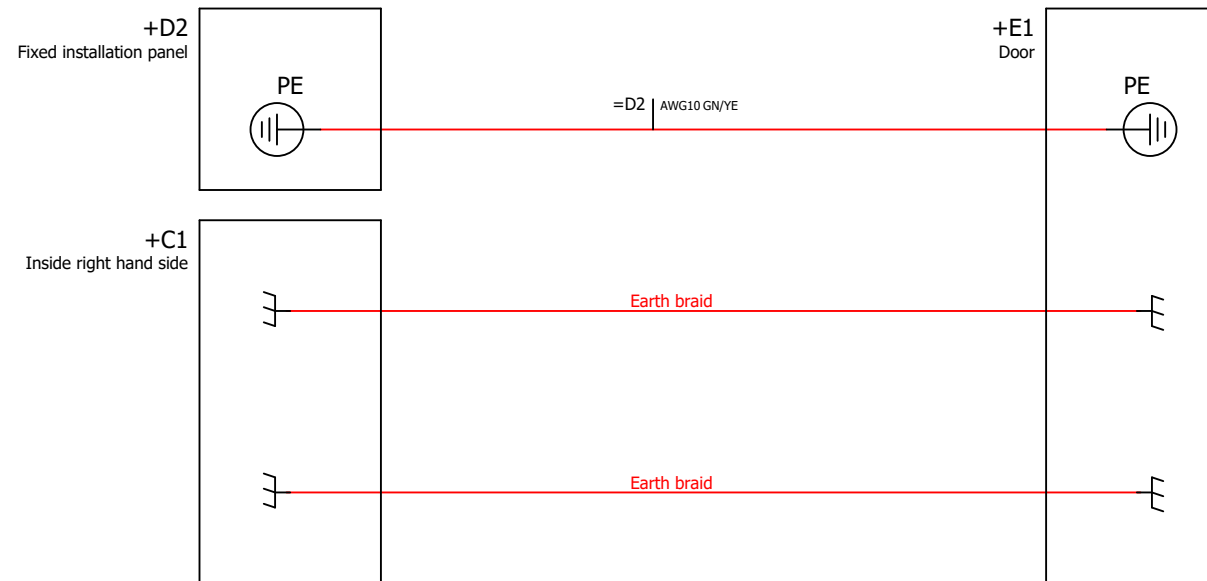
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Service port & Motors On Lamp

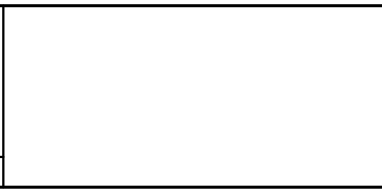
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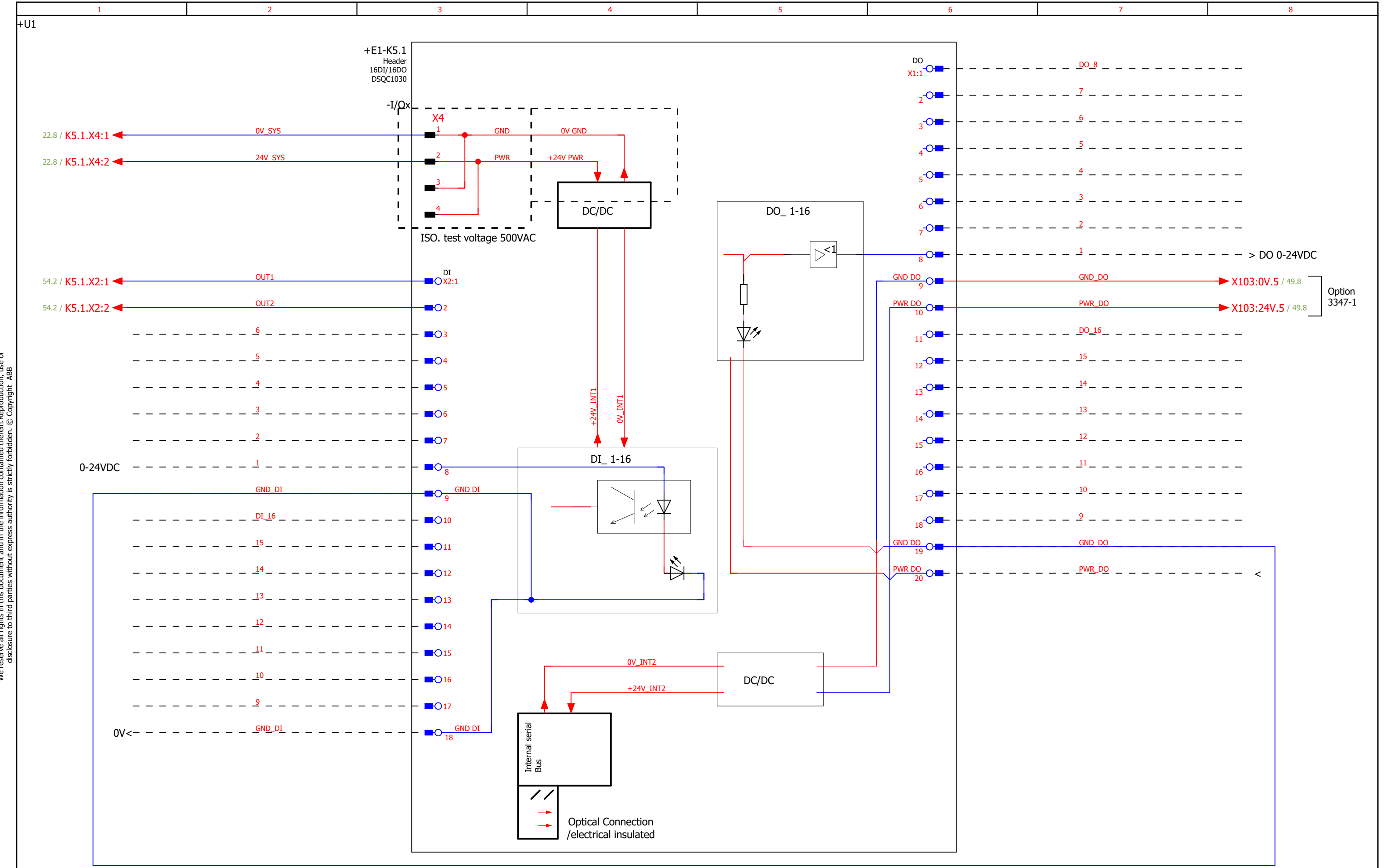
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Lab/Office:	OmniCore V400XT Protective ground
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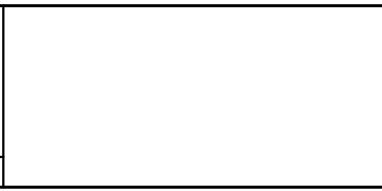
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Option 3347-1

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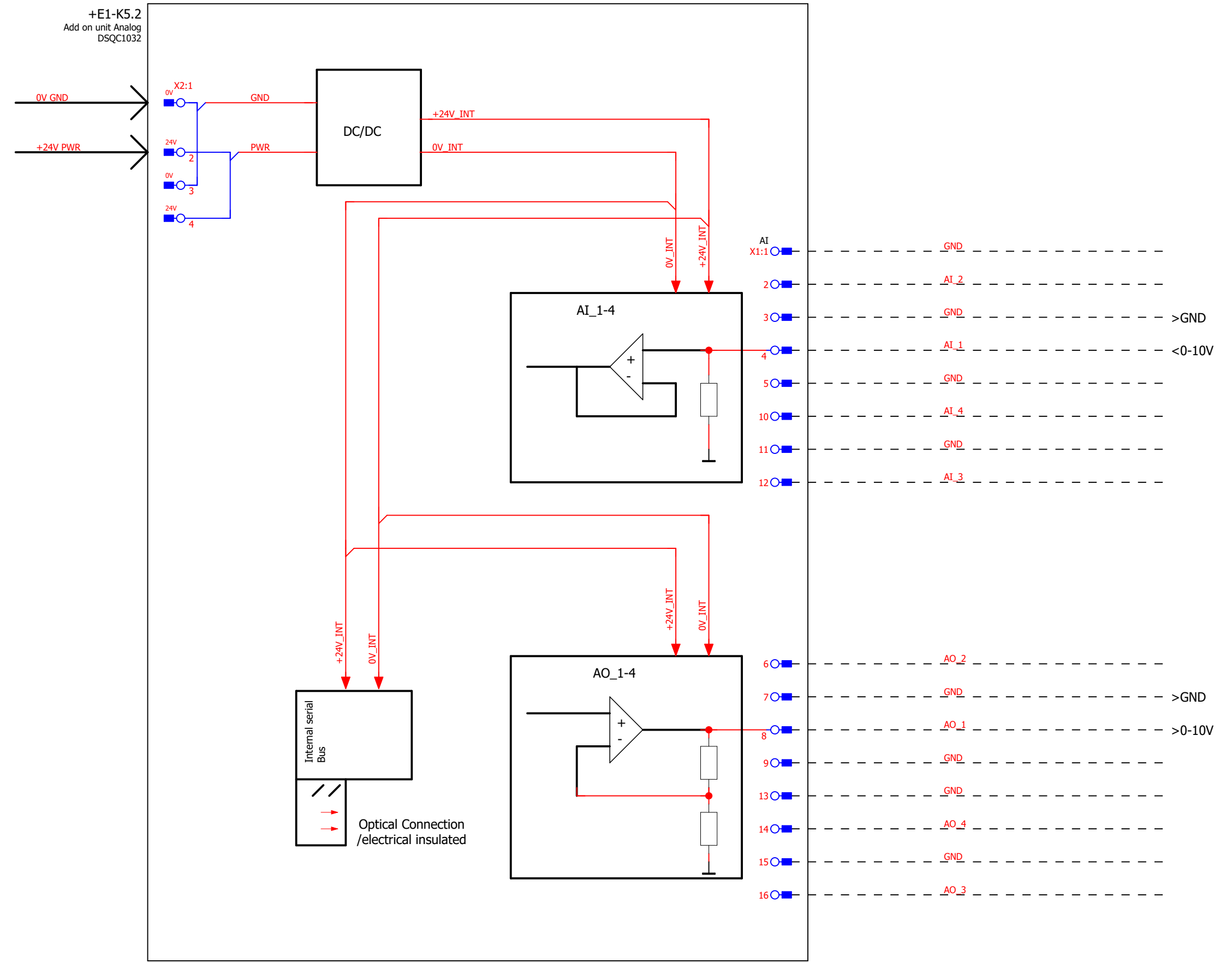


Lab/Office: OmniCore V400XT Master I/O unit

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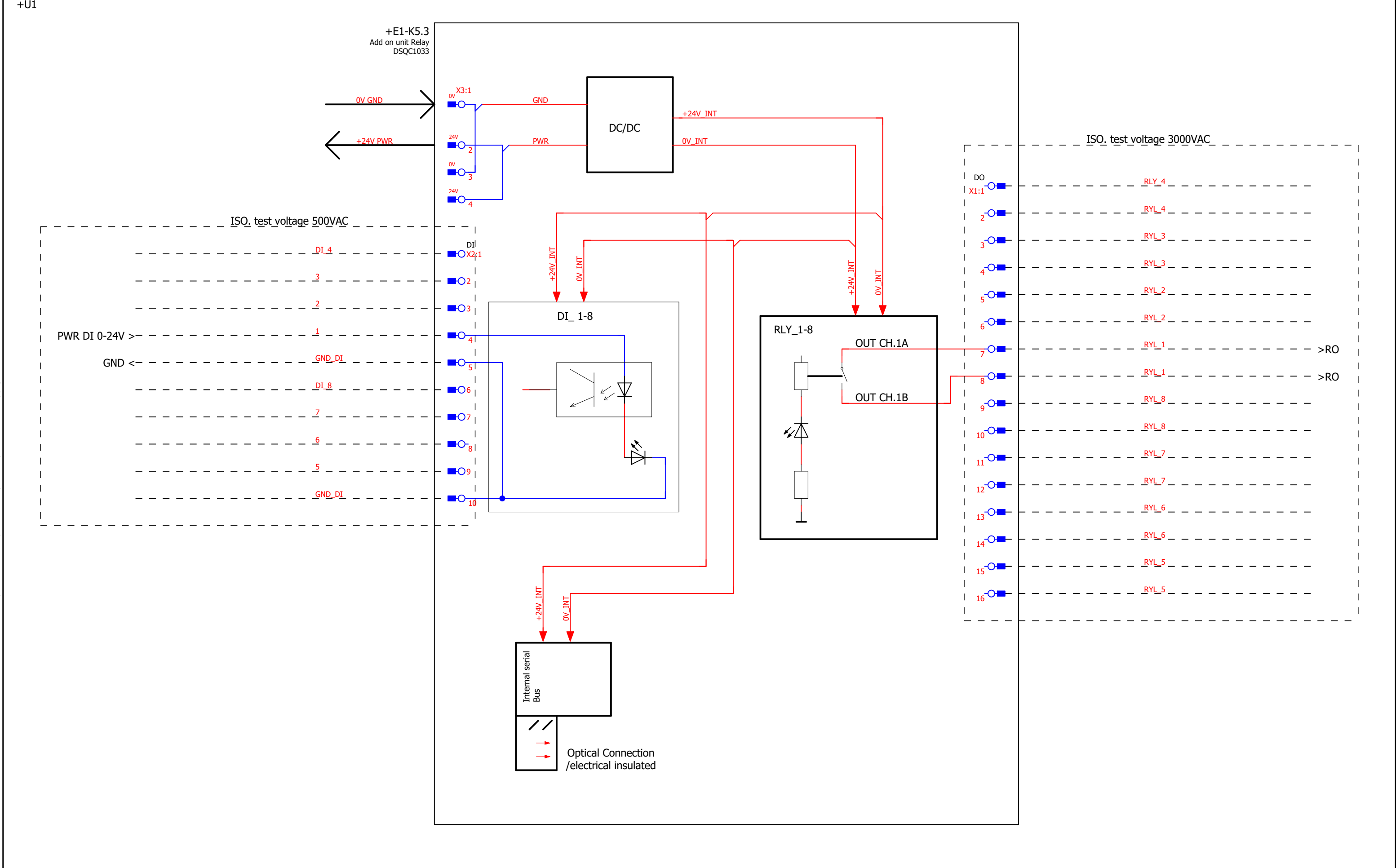


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**ABB** Lab/Office: OmniCore V400XT  
 Add on unit Analog

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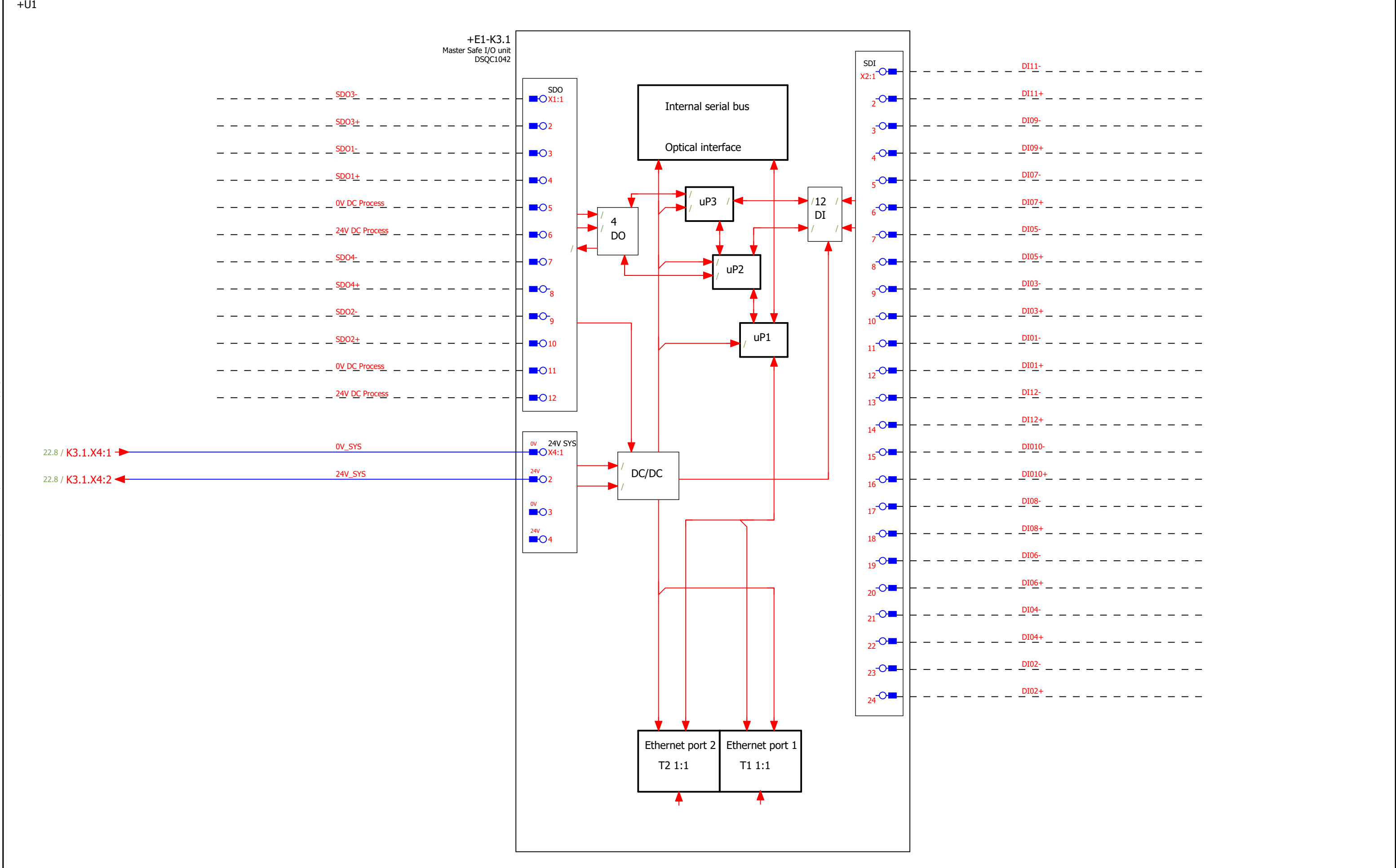
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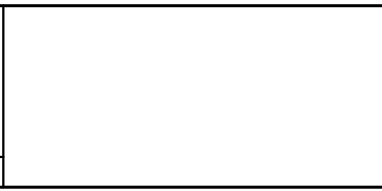






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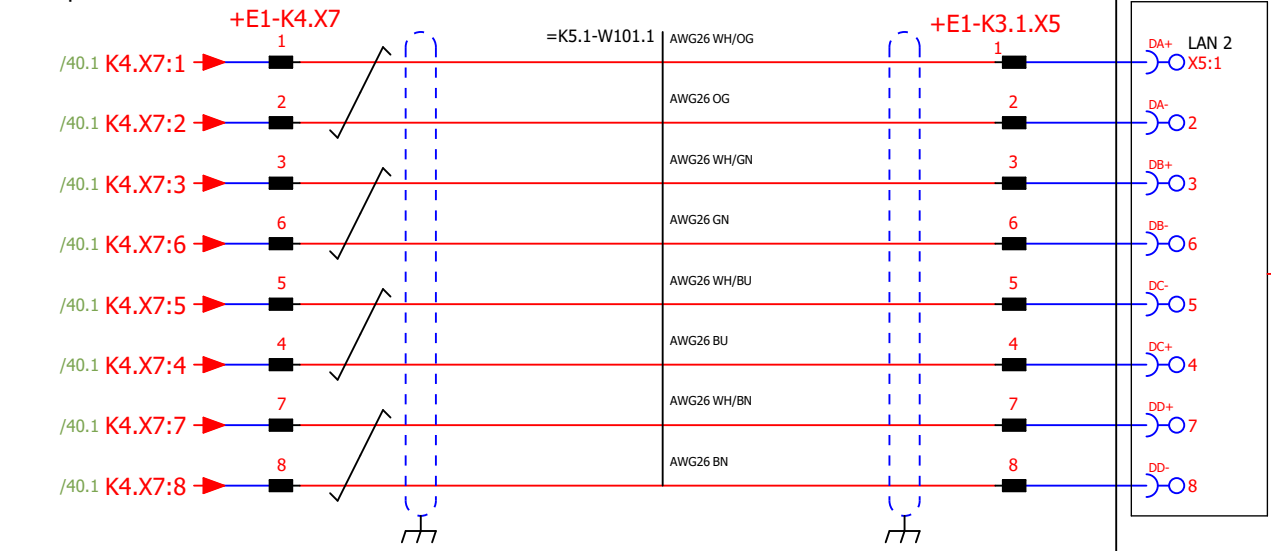
OmniCore V400XT  
Master Safe I/O unit

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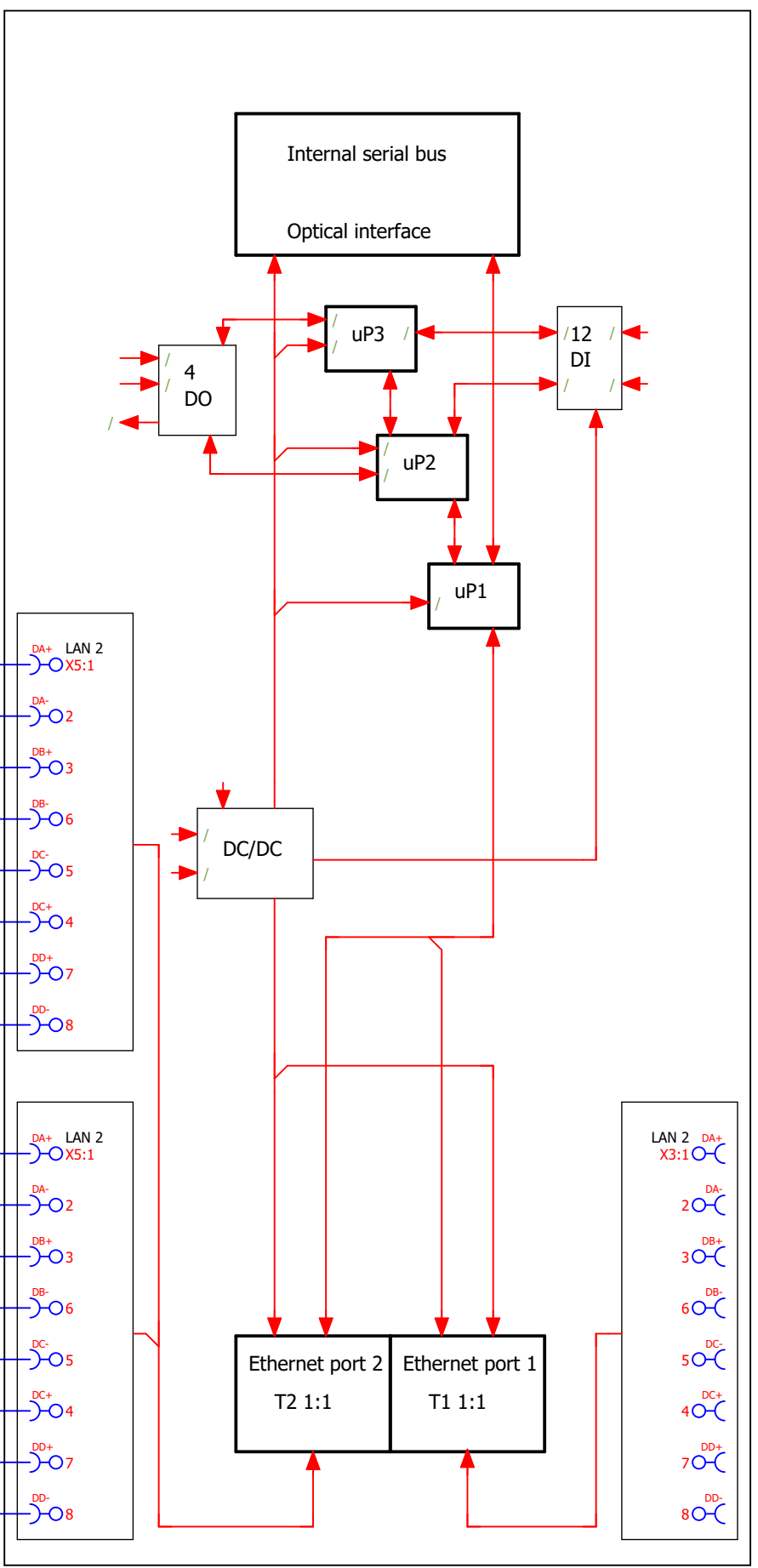
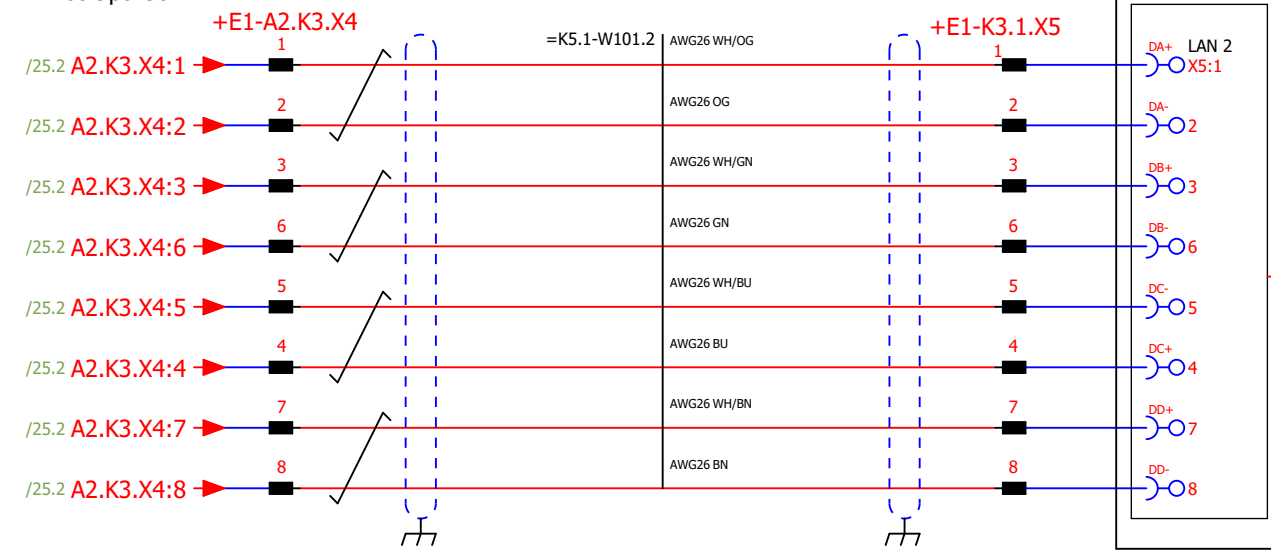
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Master Safe I/O unit  
DSQC1042

If Opt. 3014-1



If not Opt. 3014-1

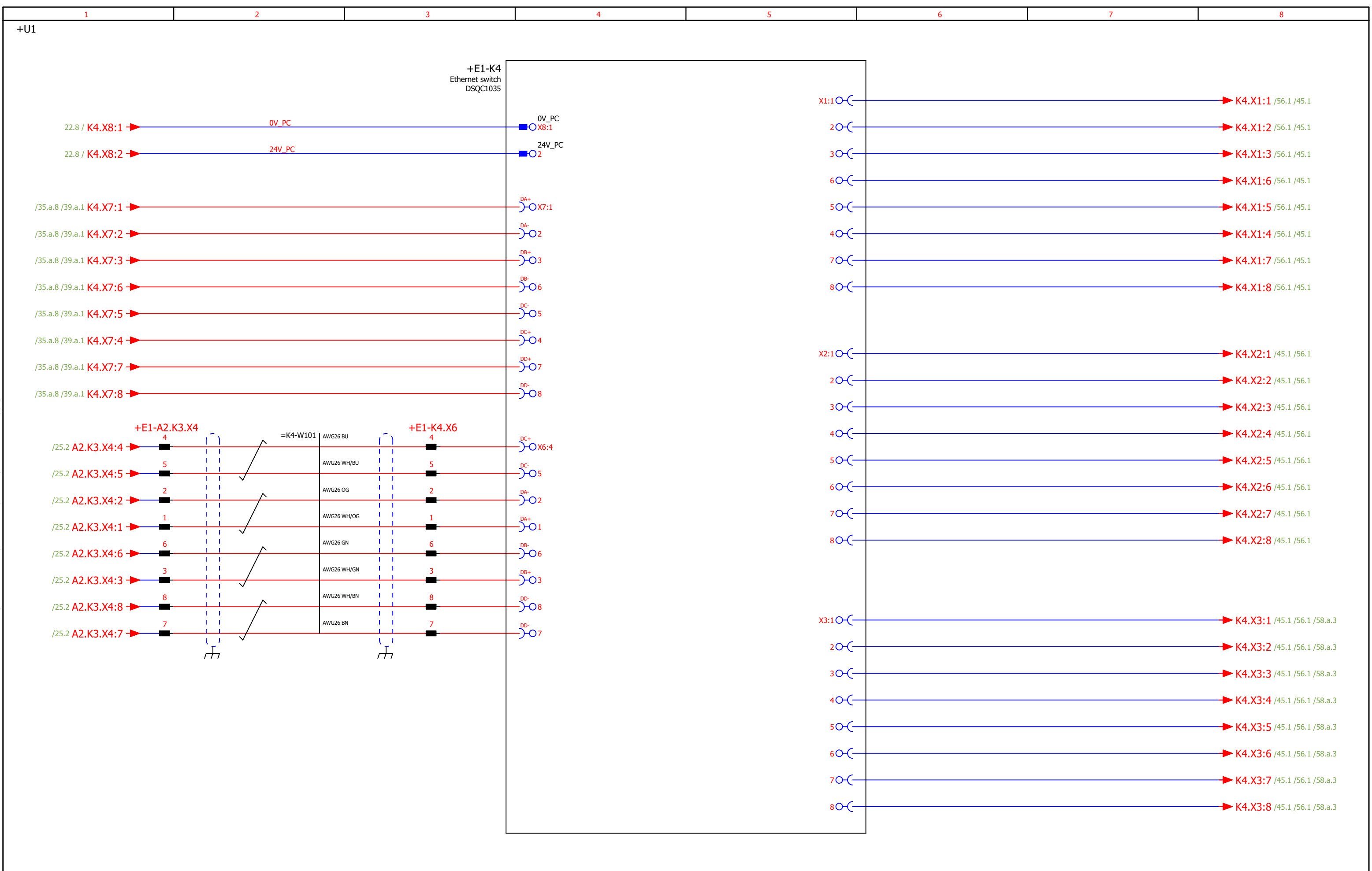


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OmniCore V400XT  
Master Safe I/O unit

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OmniCore V400XT  
Ethernet switch

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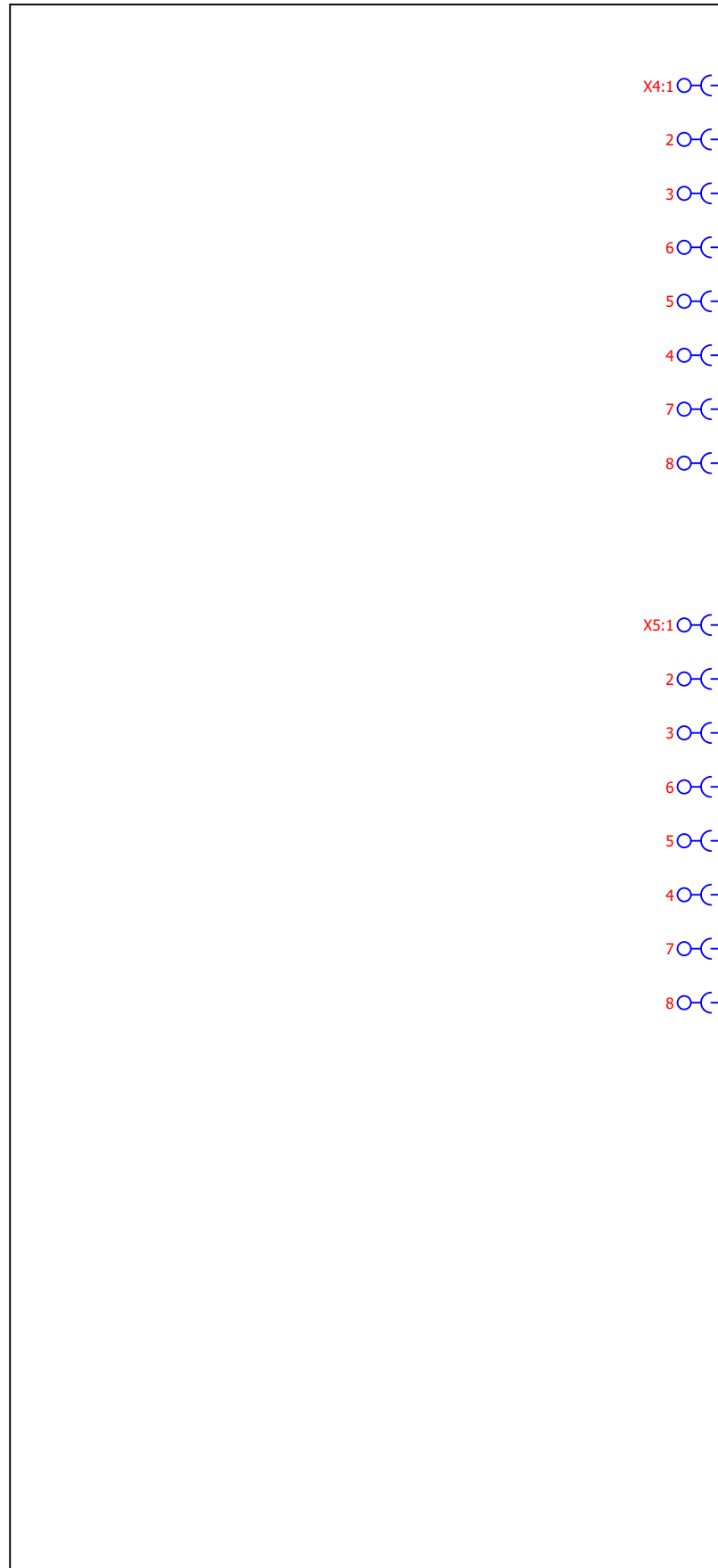
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+U1

+E1-K4  
Ethernet switch  
DSQC1035



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Ethernet switch

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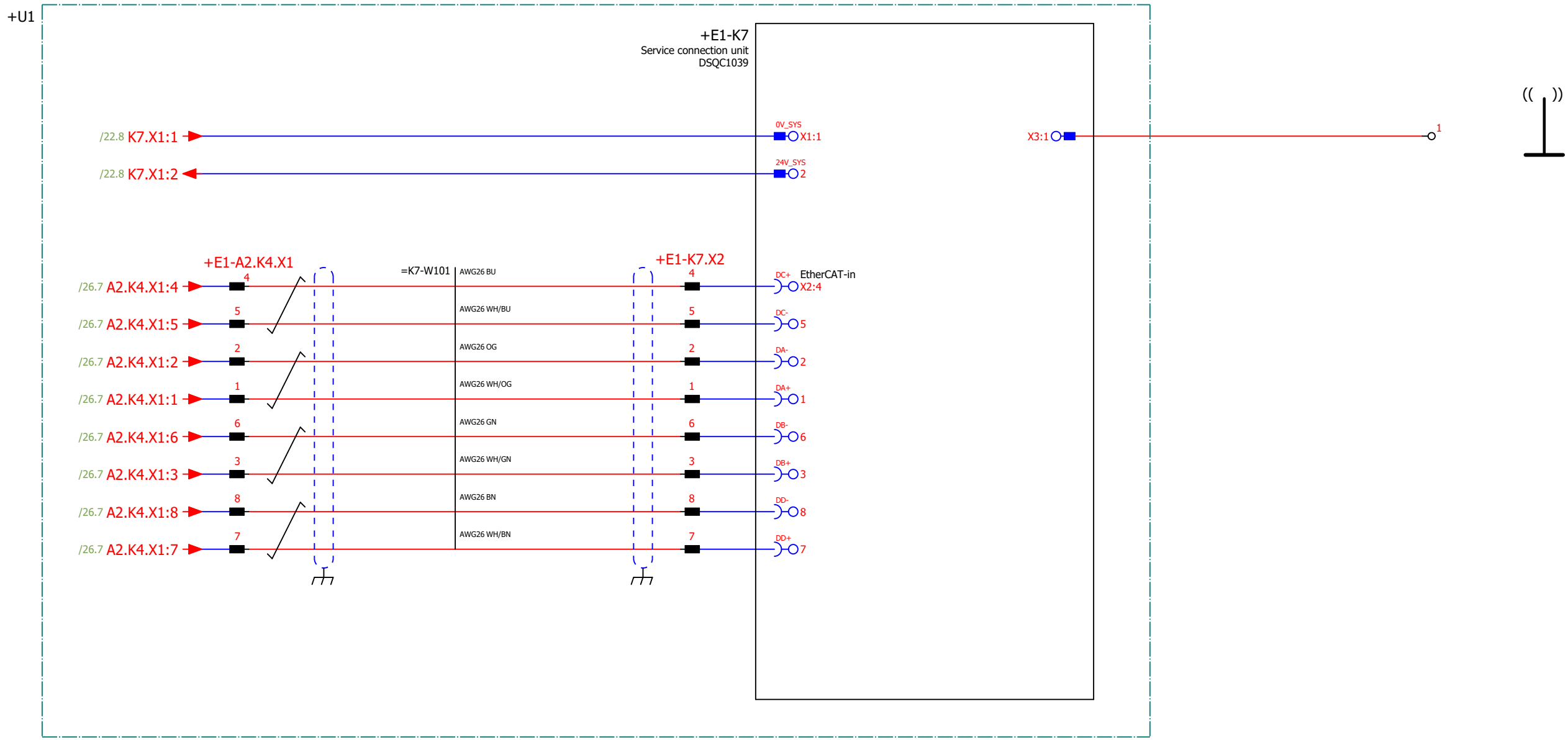
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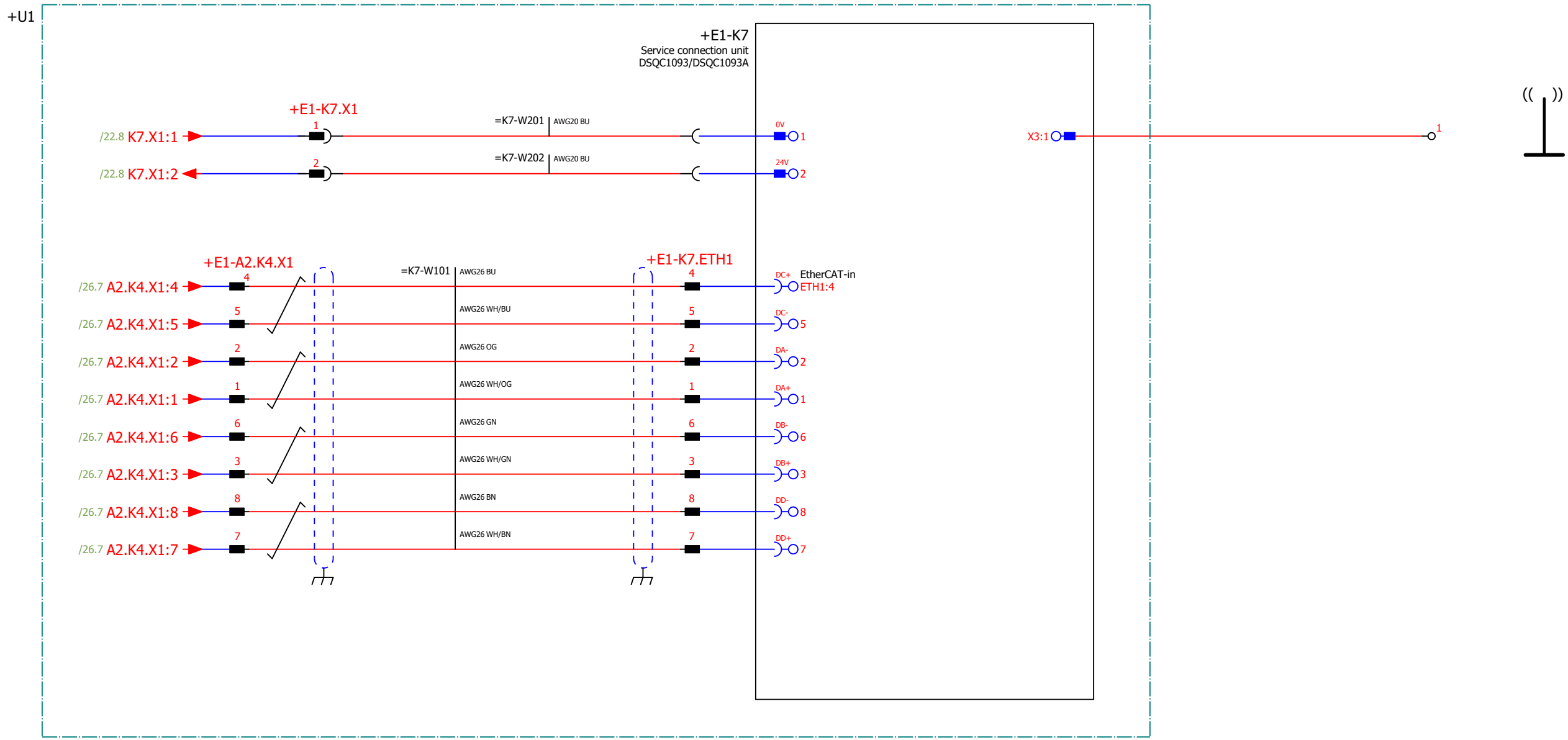
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OmniCore V400XT  
Connected service, 4G

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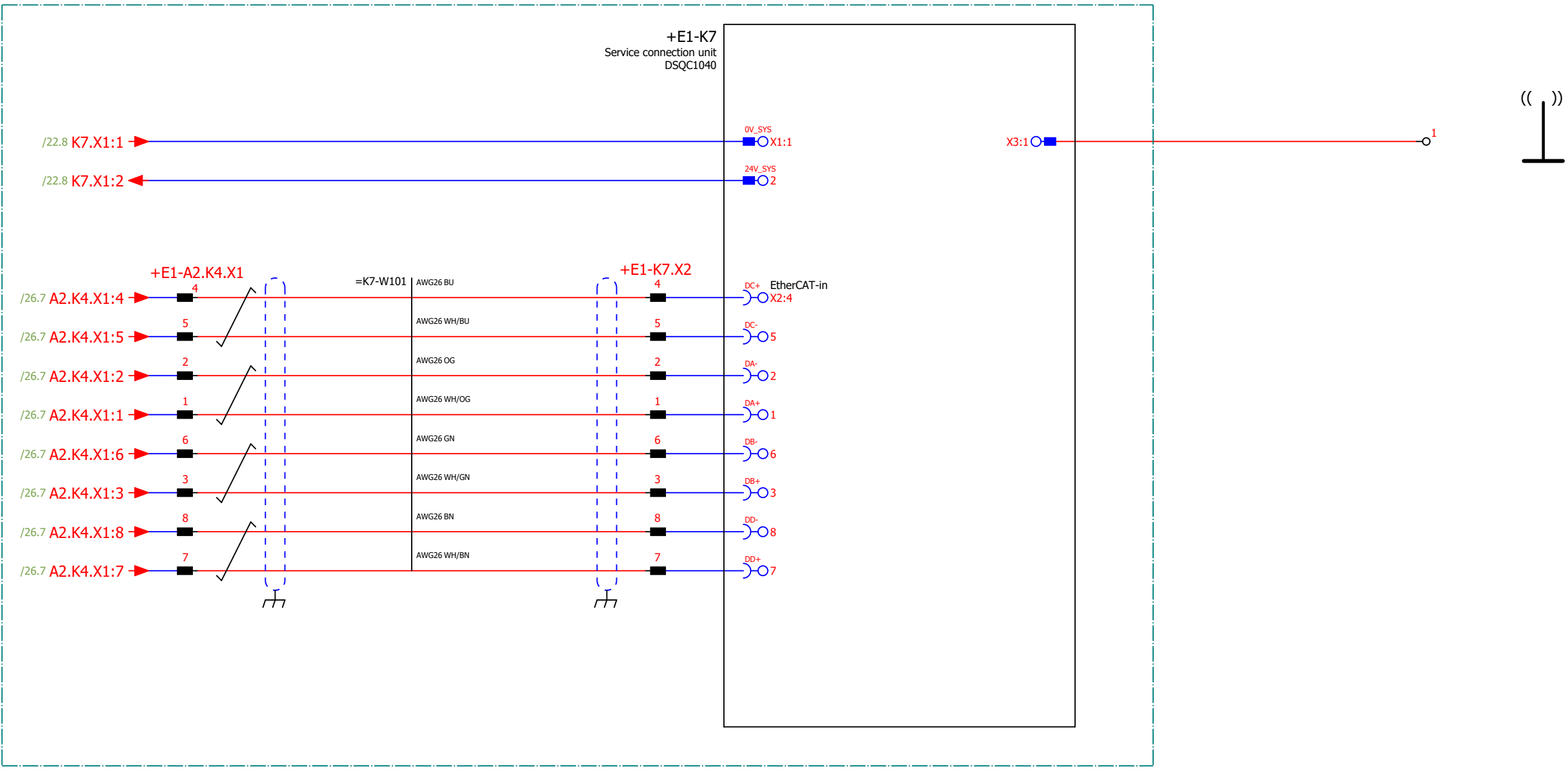
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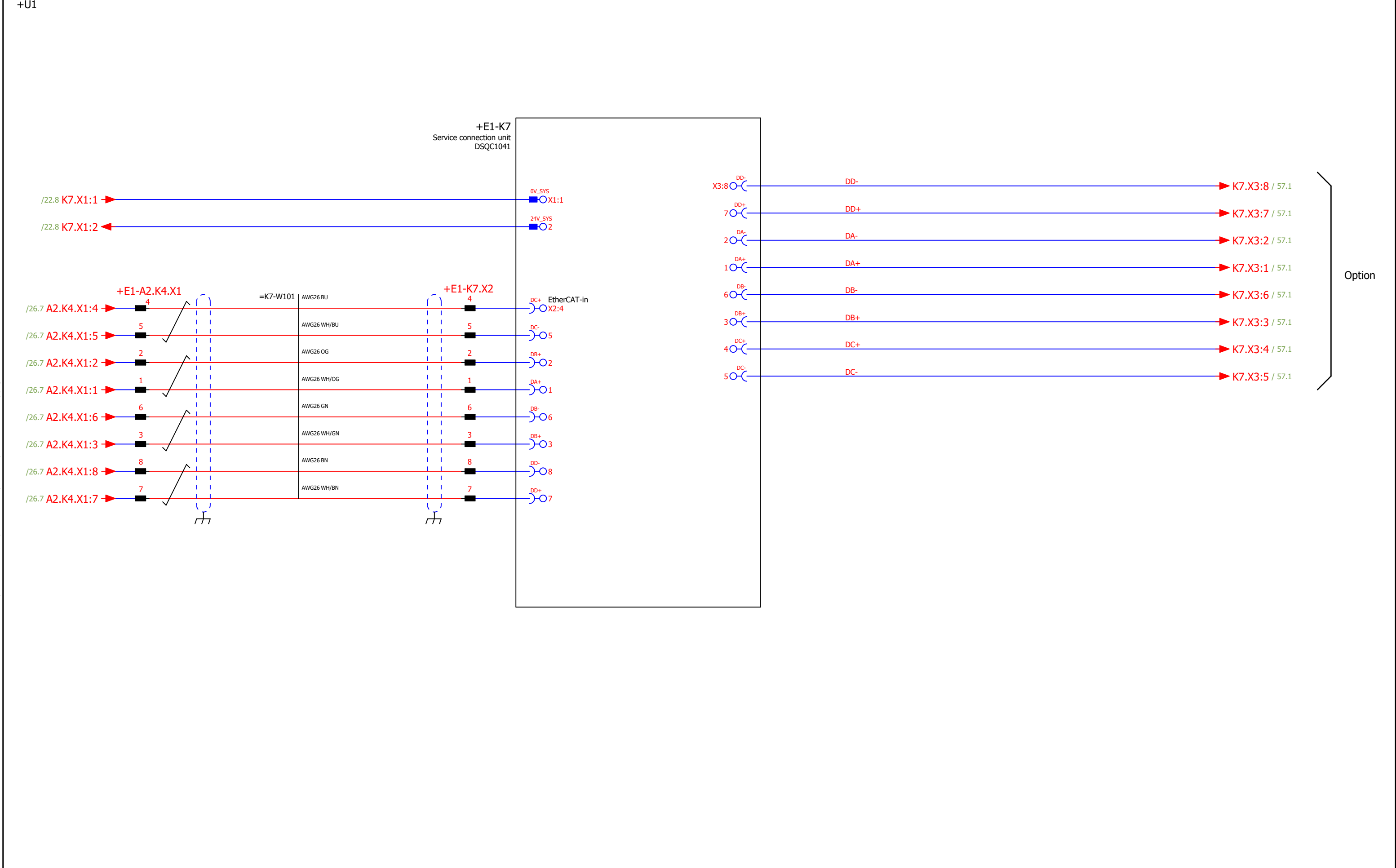
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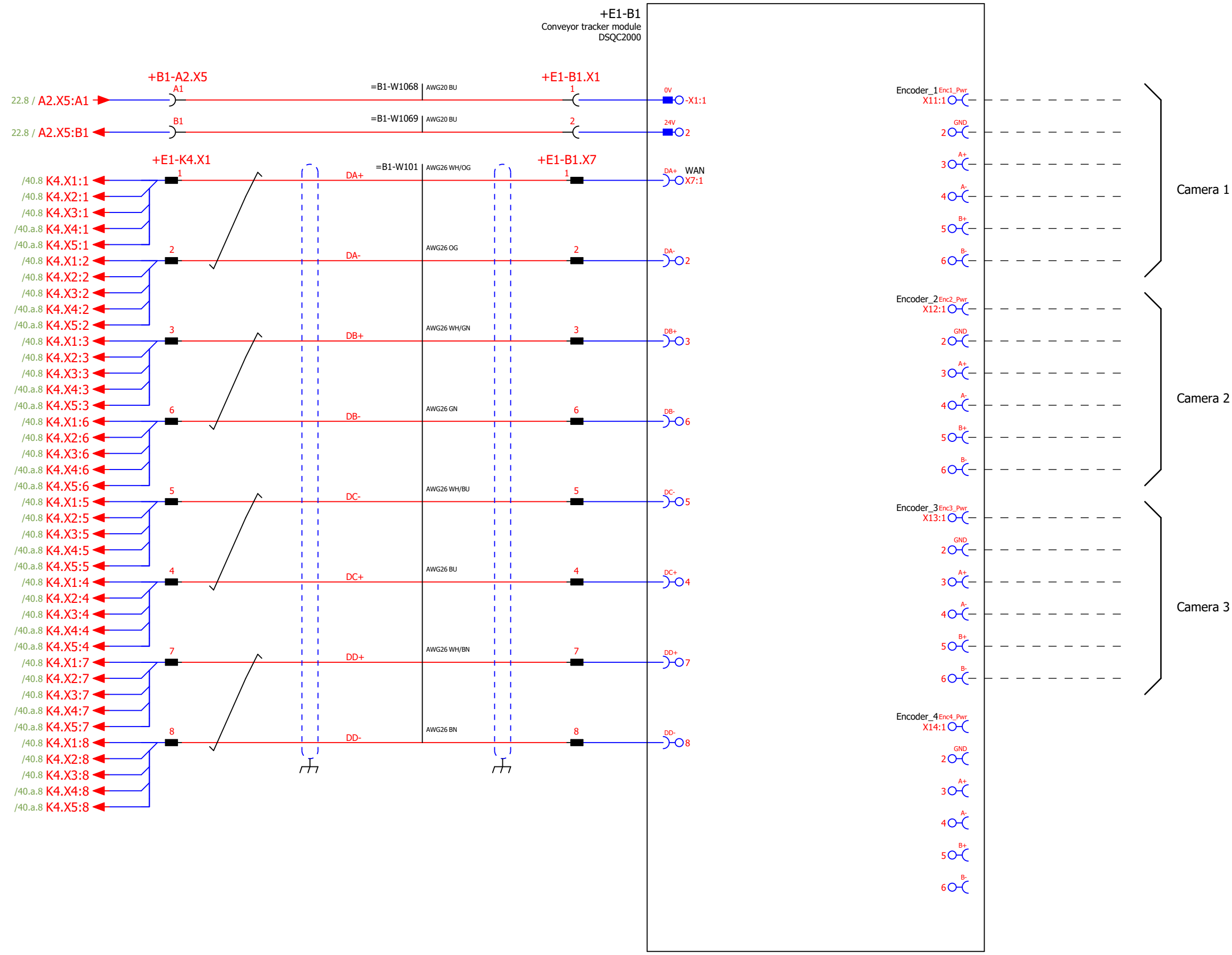
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OmniCore V400XT  
Conveyor tracker module

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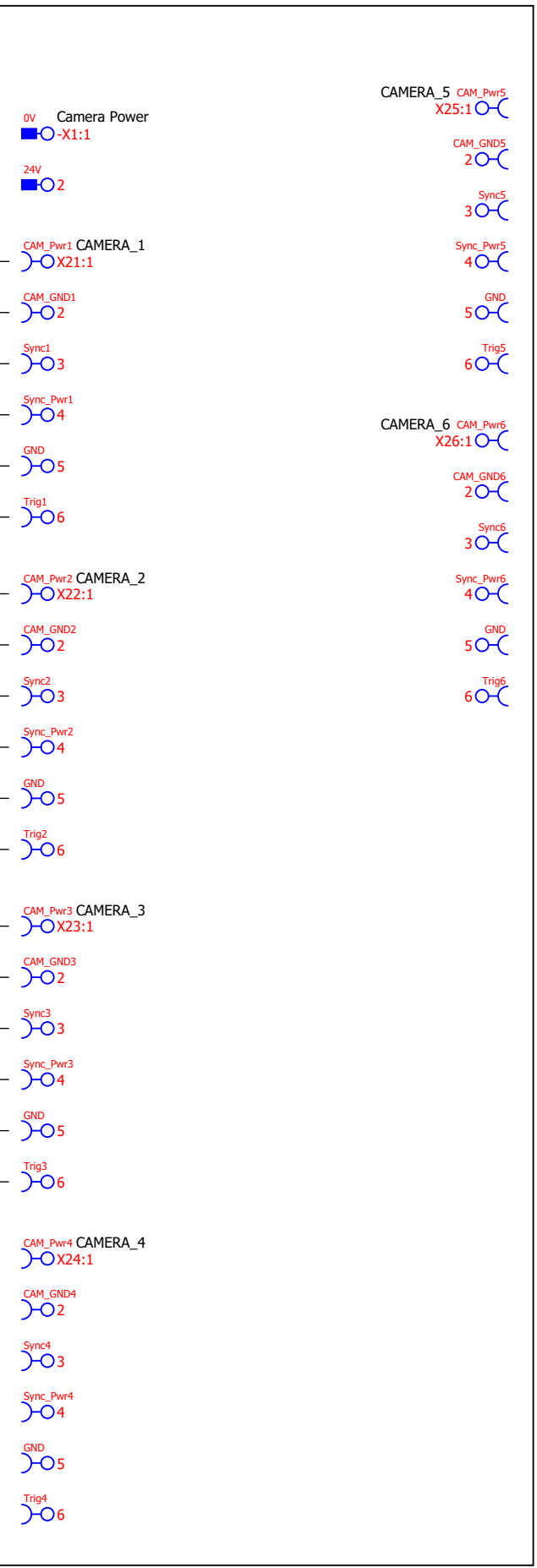
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**+E1-B1**  
Conveyor tracker module  
DSQC2000

Camera 1

Camera 2

Camera 3



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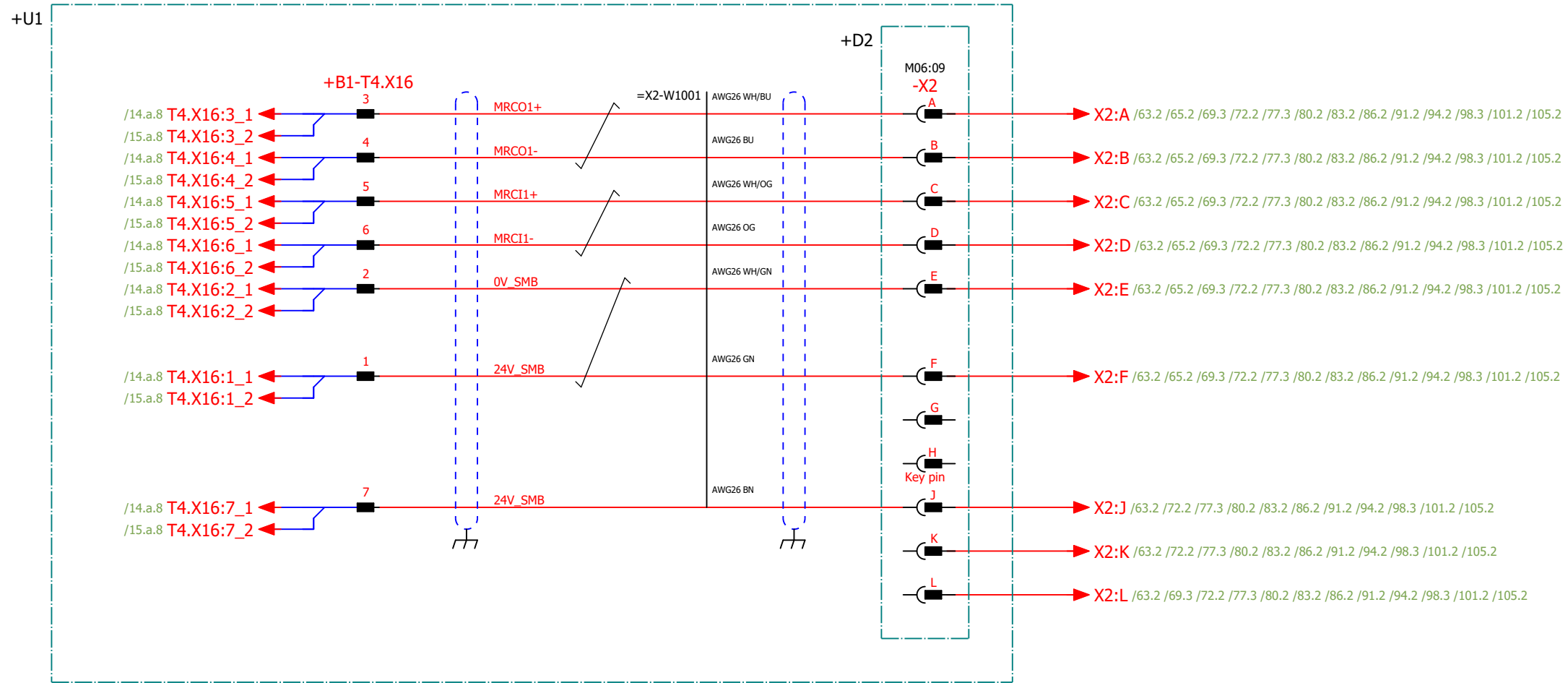


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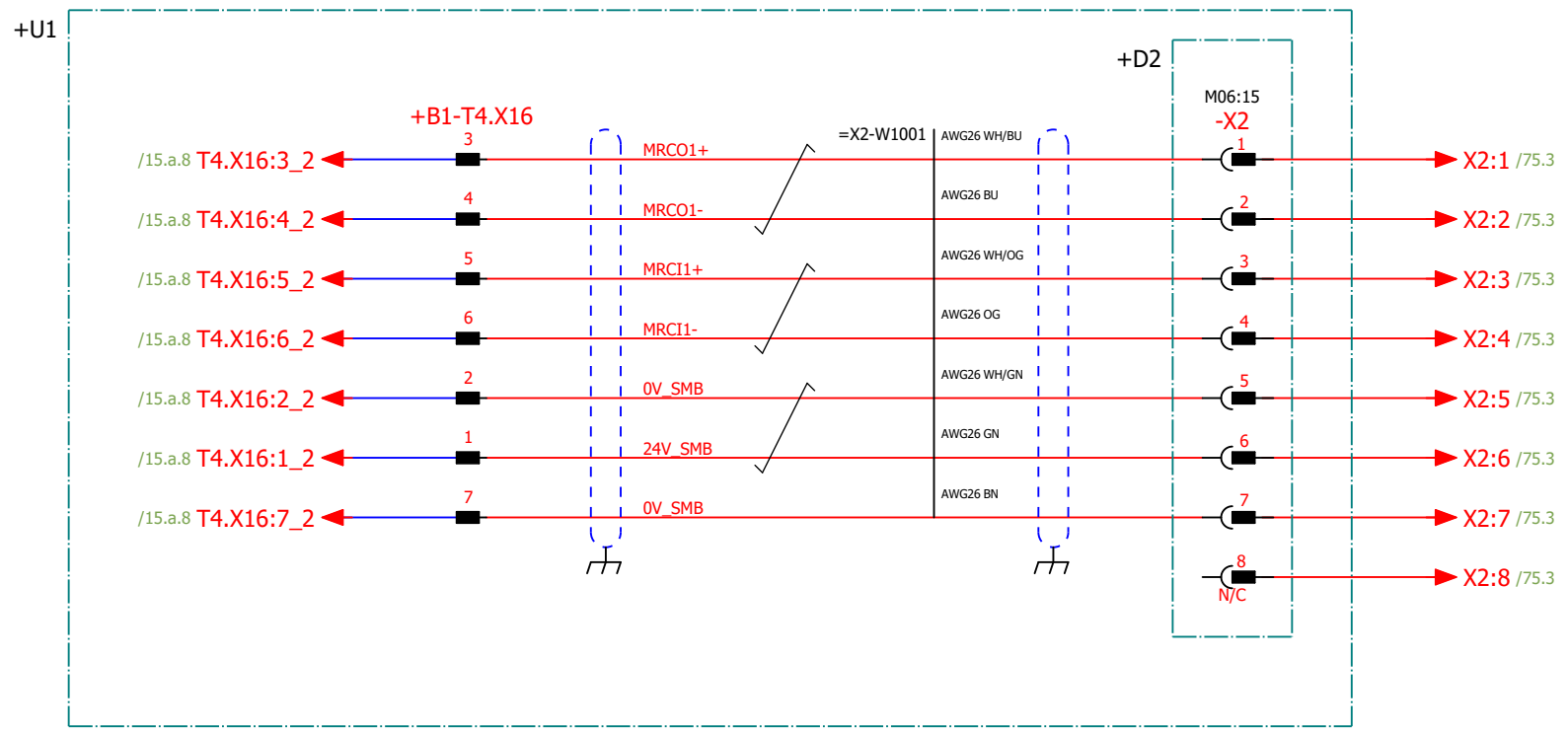
**OmniCore V400XT**  
Conveyor tracker module

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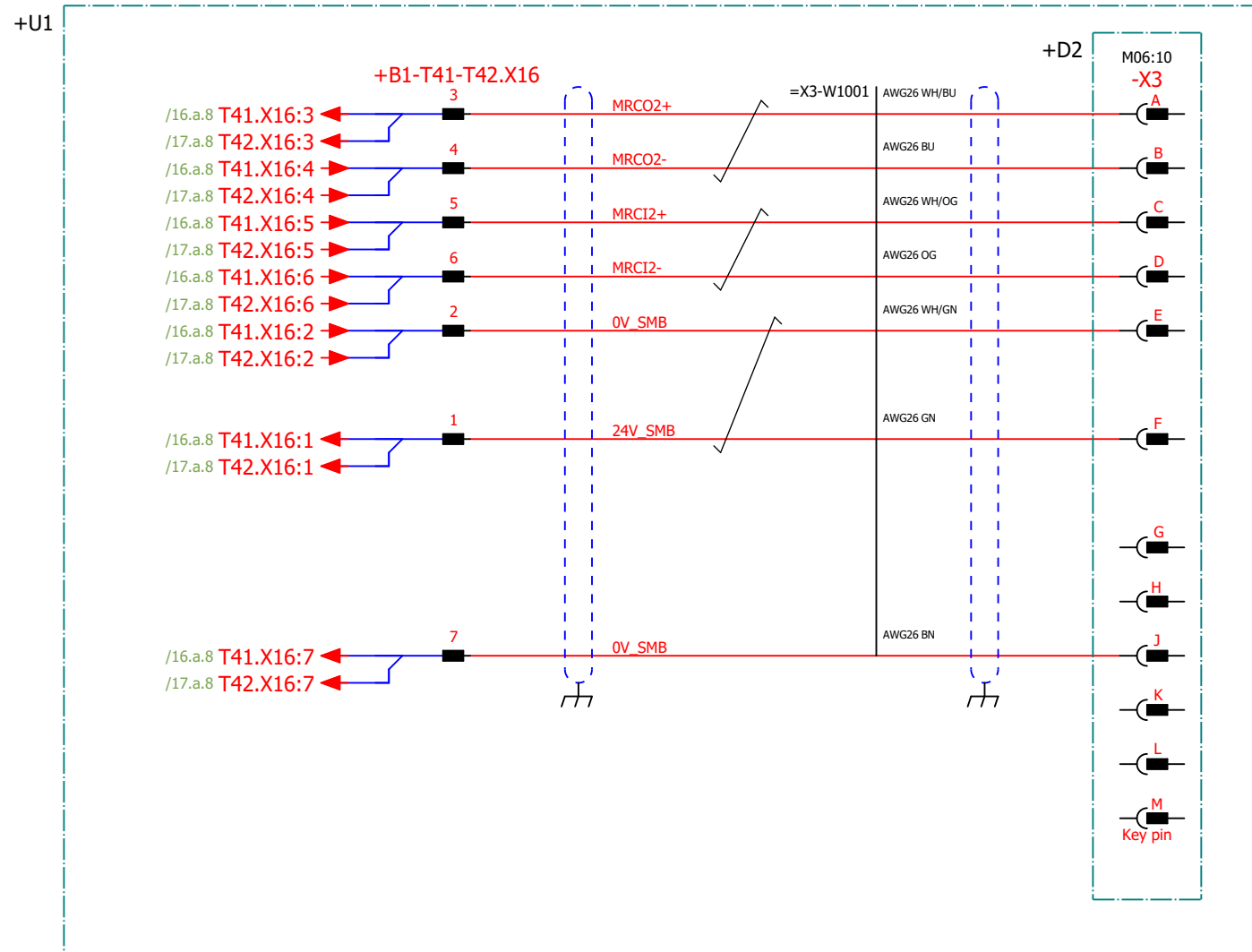
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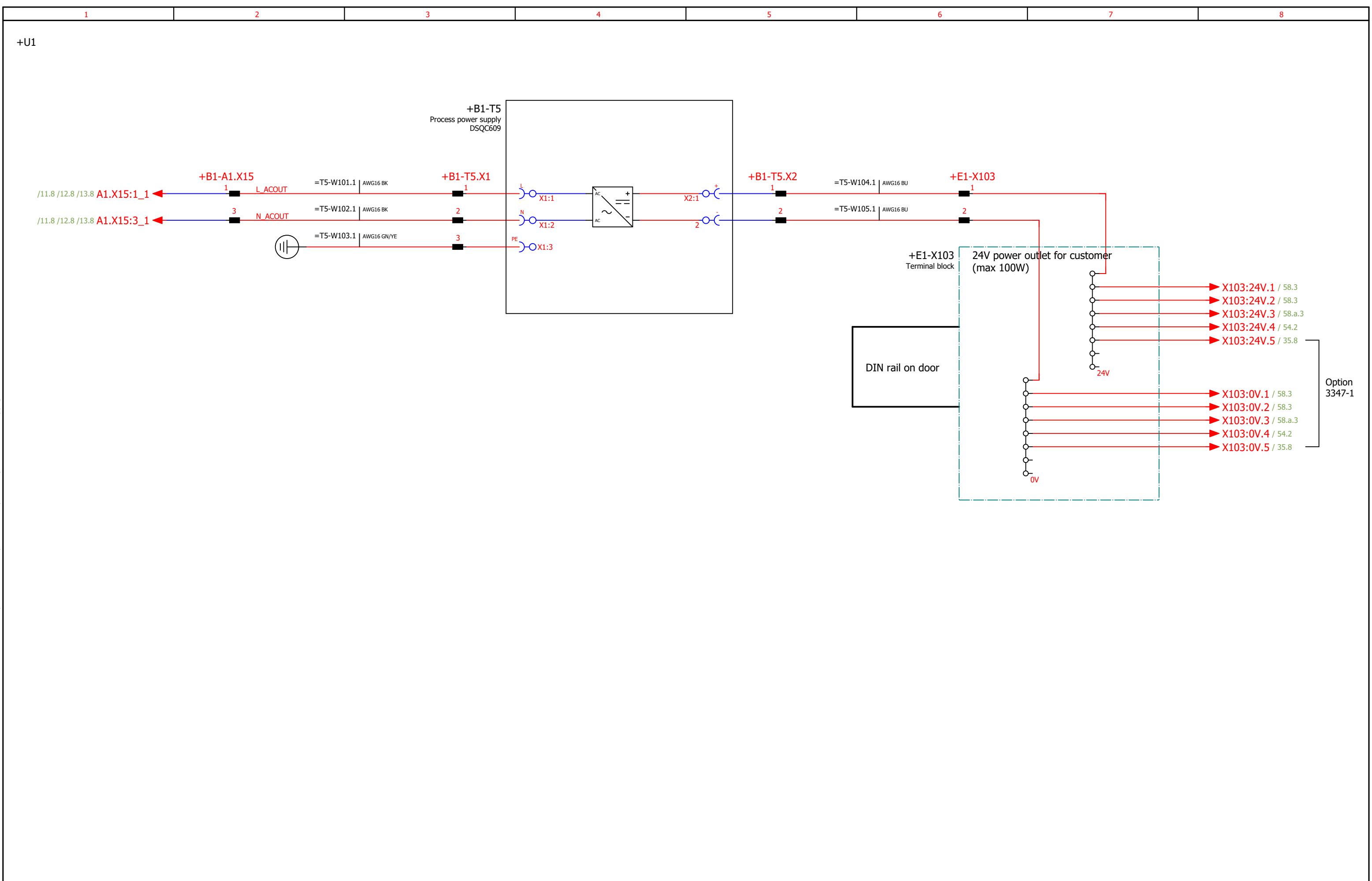


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According to MotorConnectionBox circuit diagram 3HAC088150-001

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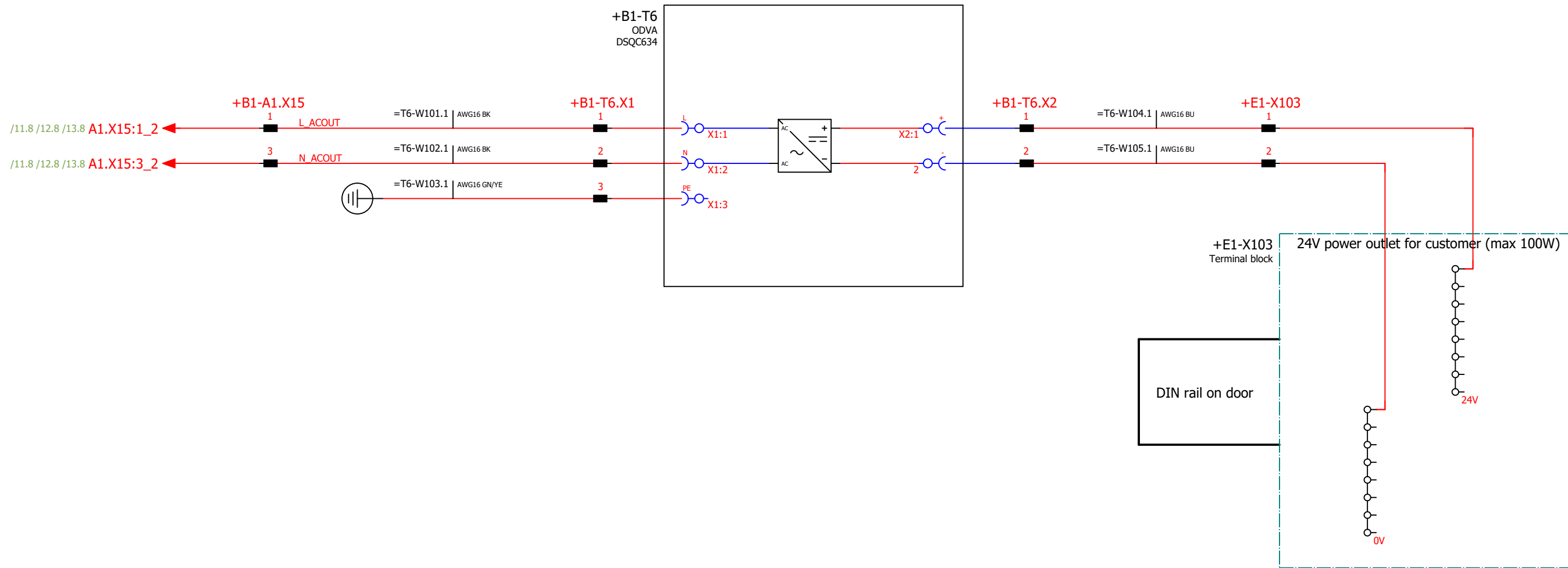
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OmniCore V400XT  
Power supply

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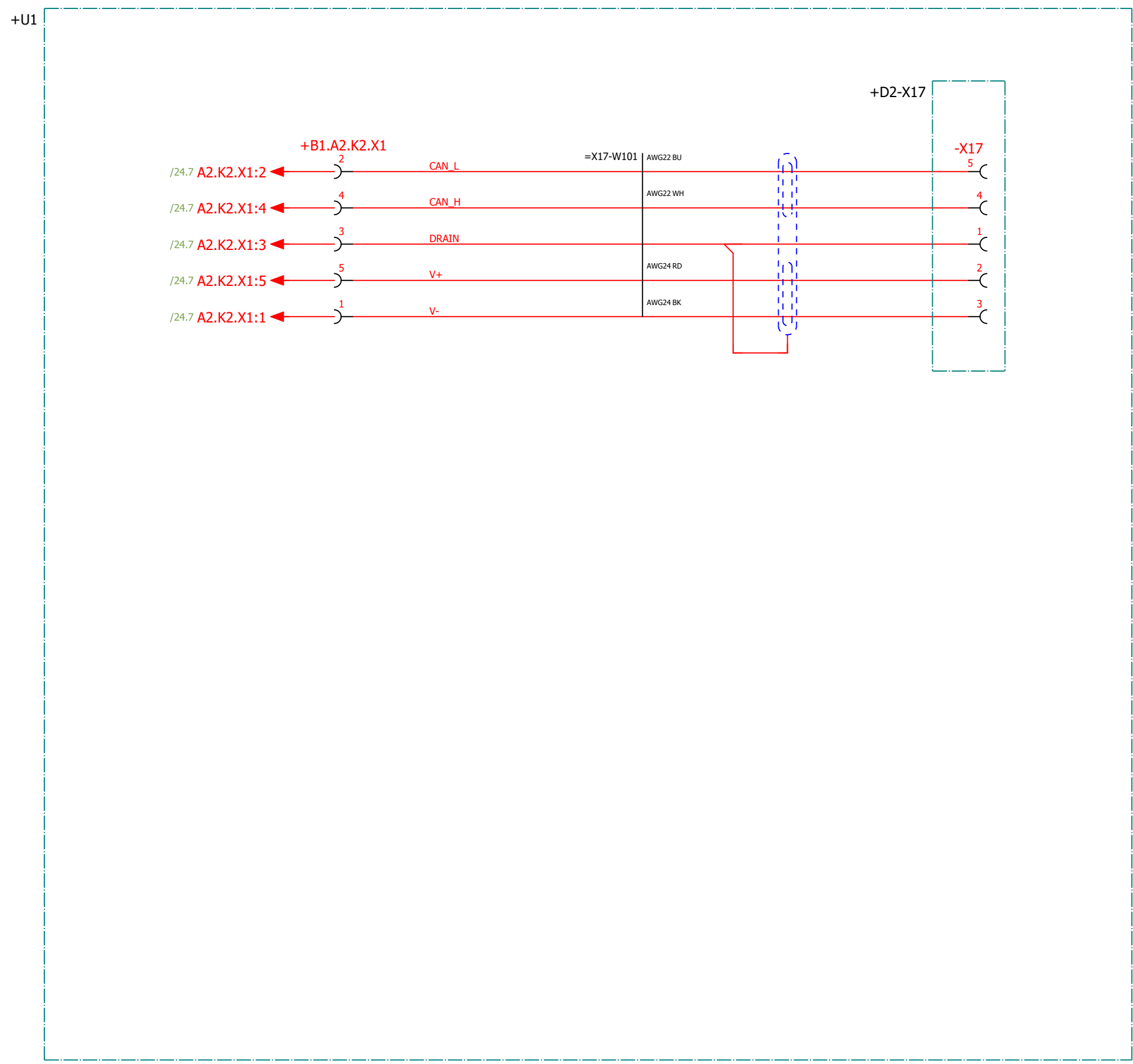
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 Power supply

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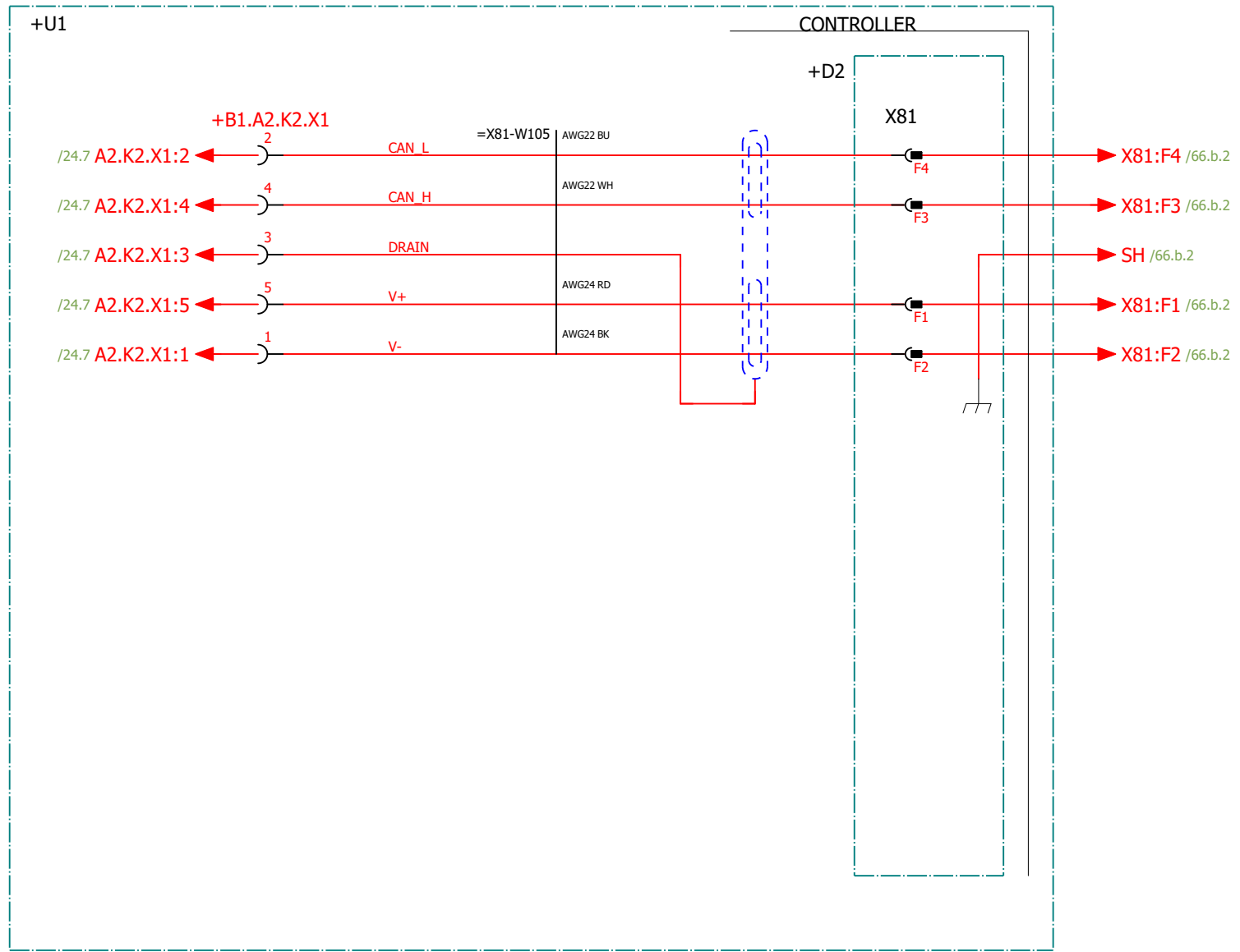
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Customer power/signal

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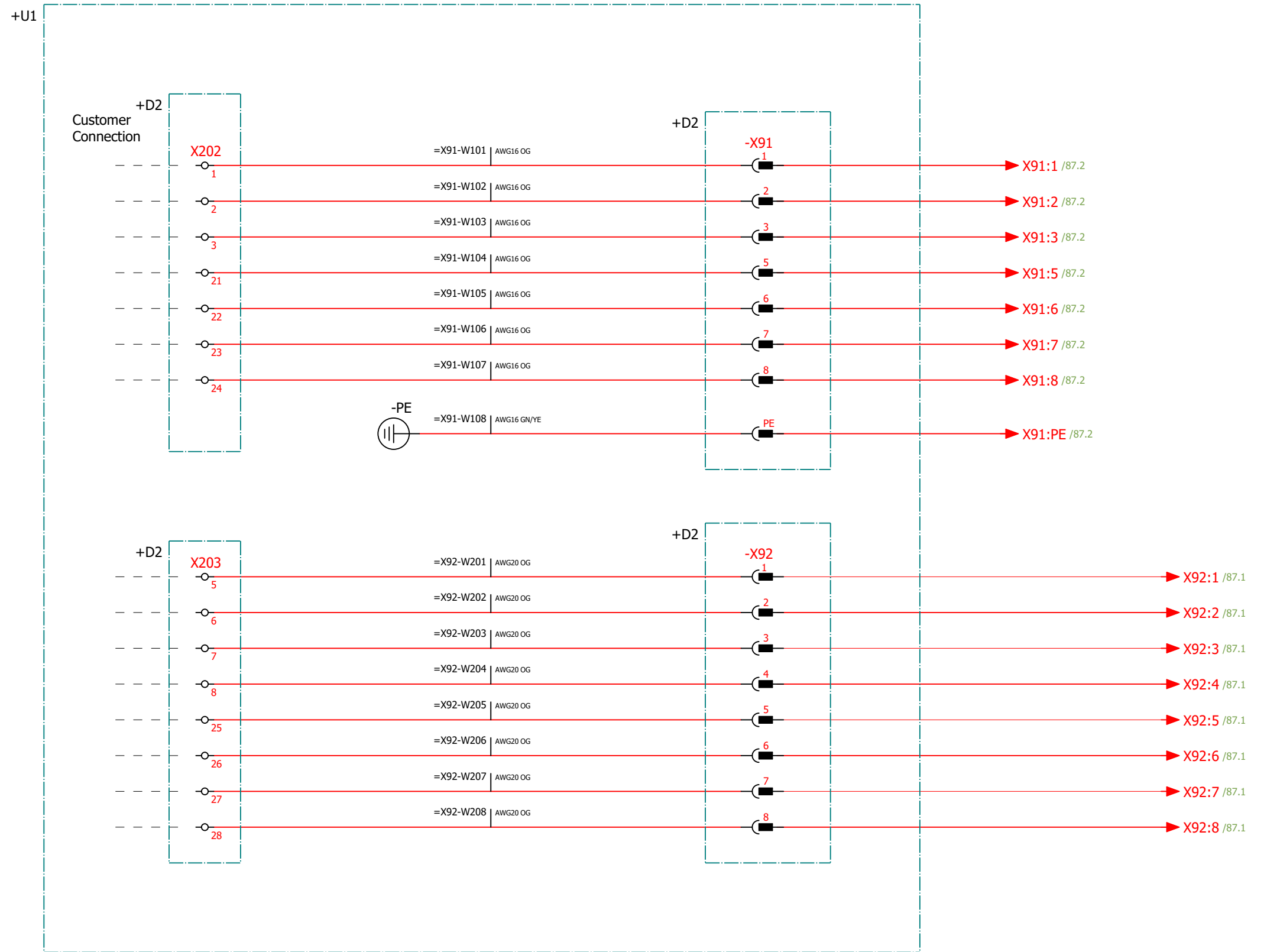


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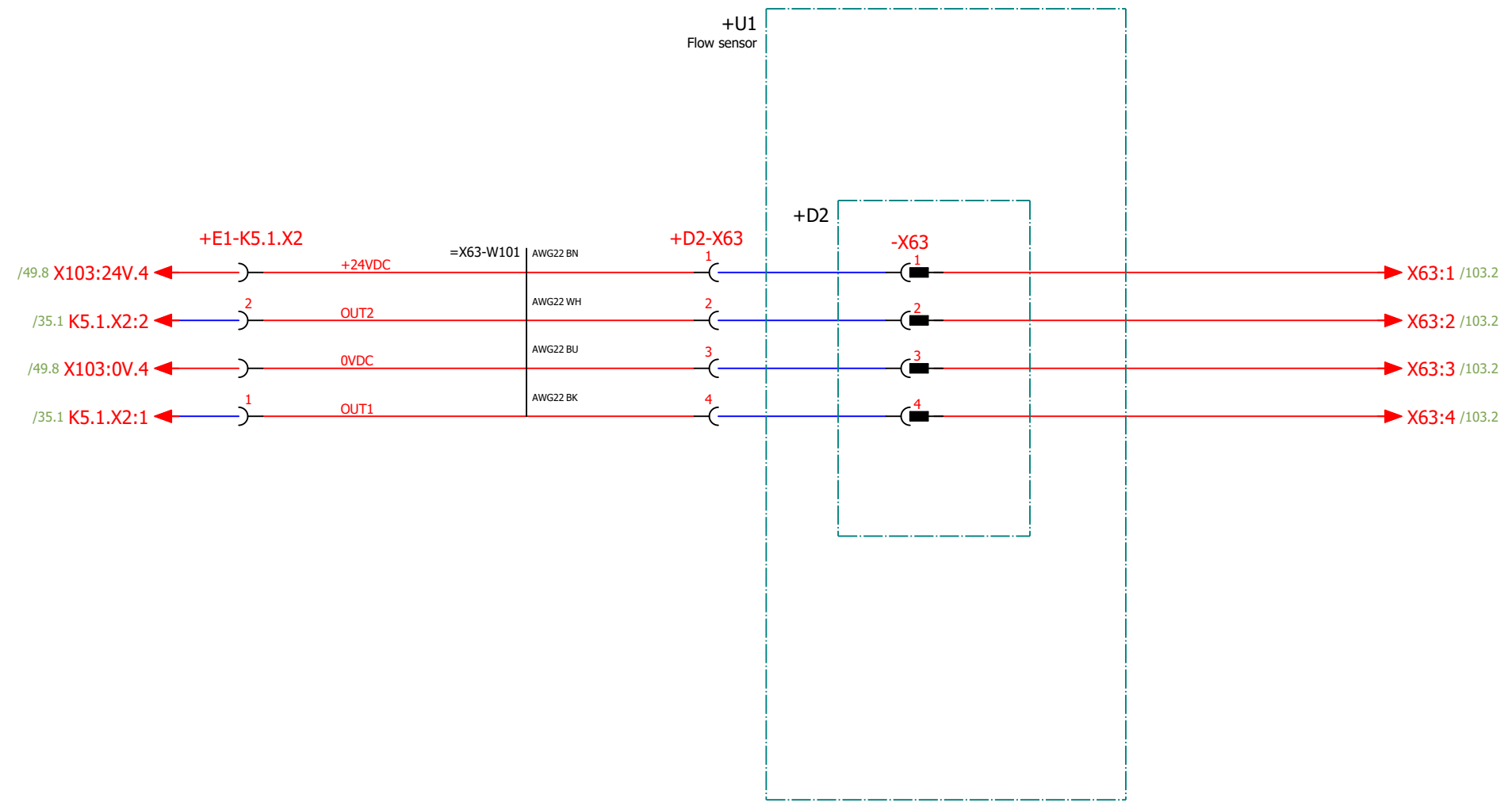
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Customer power/signal

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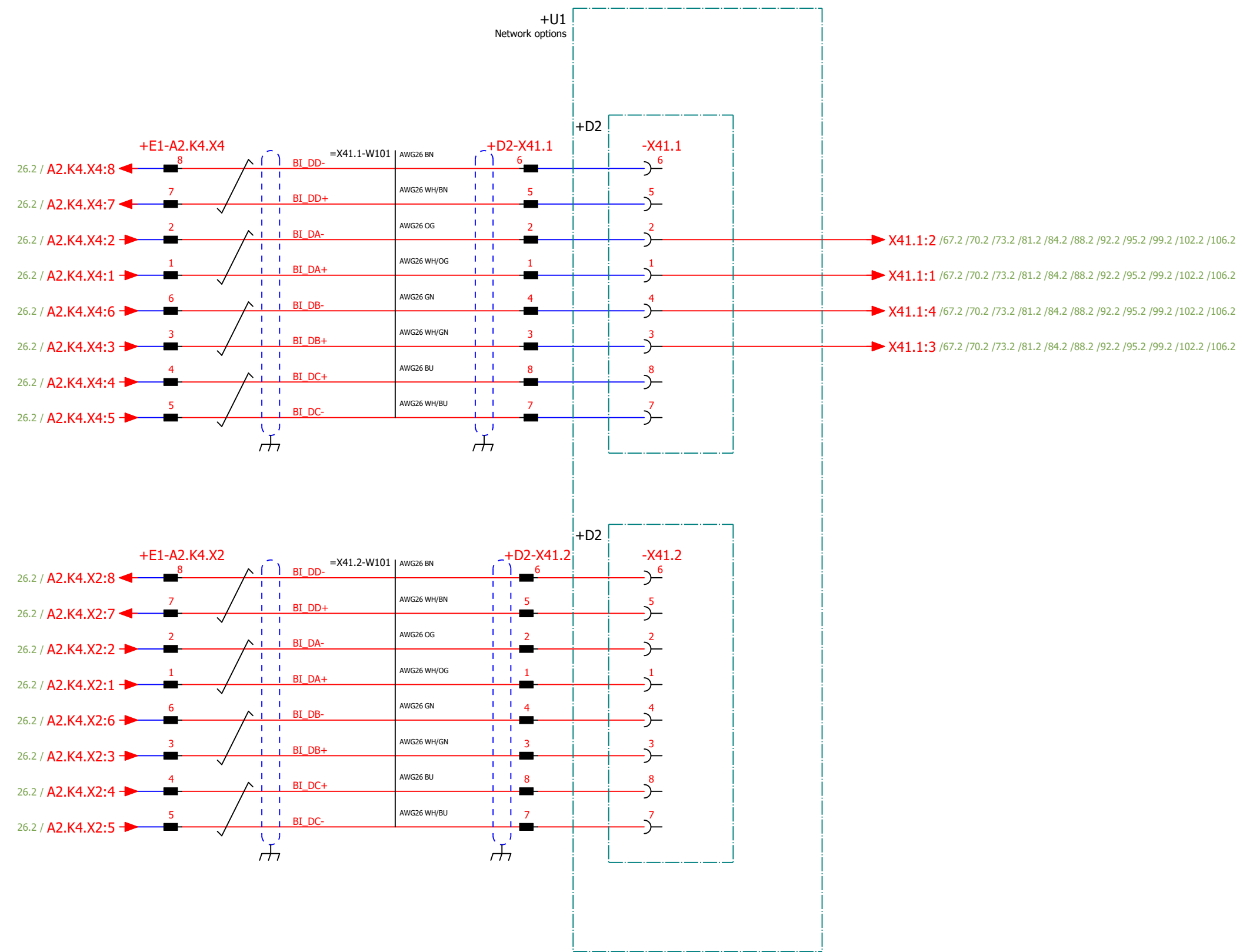
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Lab/Office: **OmniCore V400XT**  
Process flow sensor

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Lab/Office:

OmniCore V400XT  
Network options

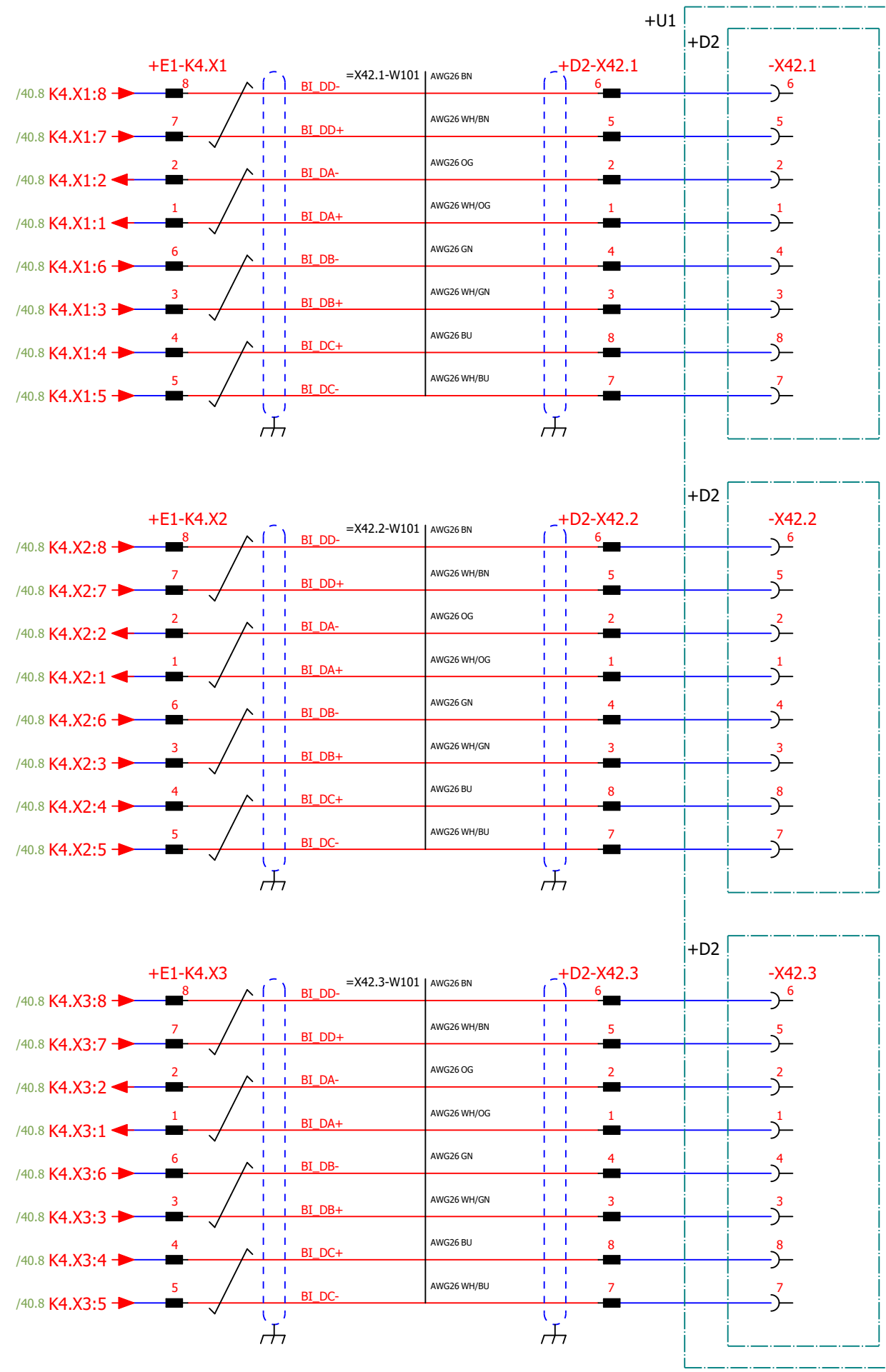
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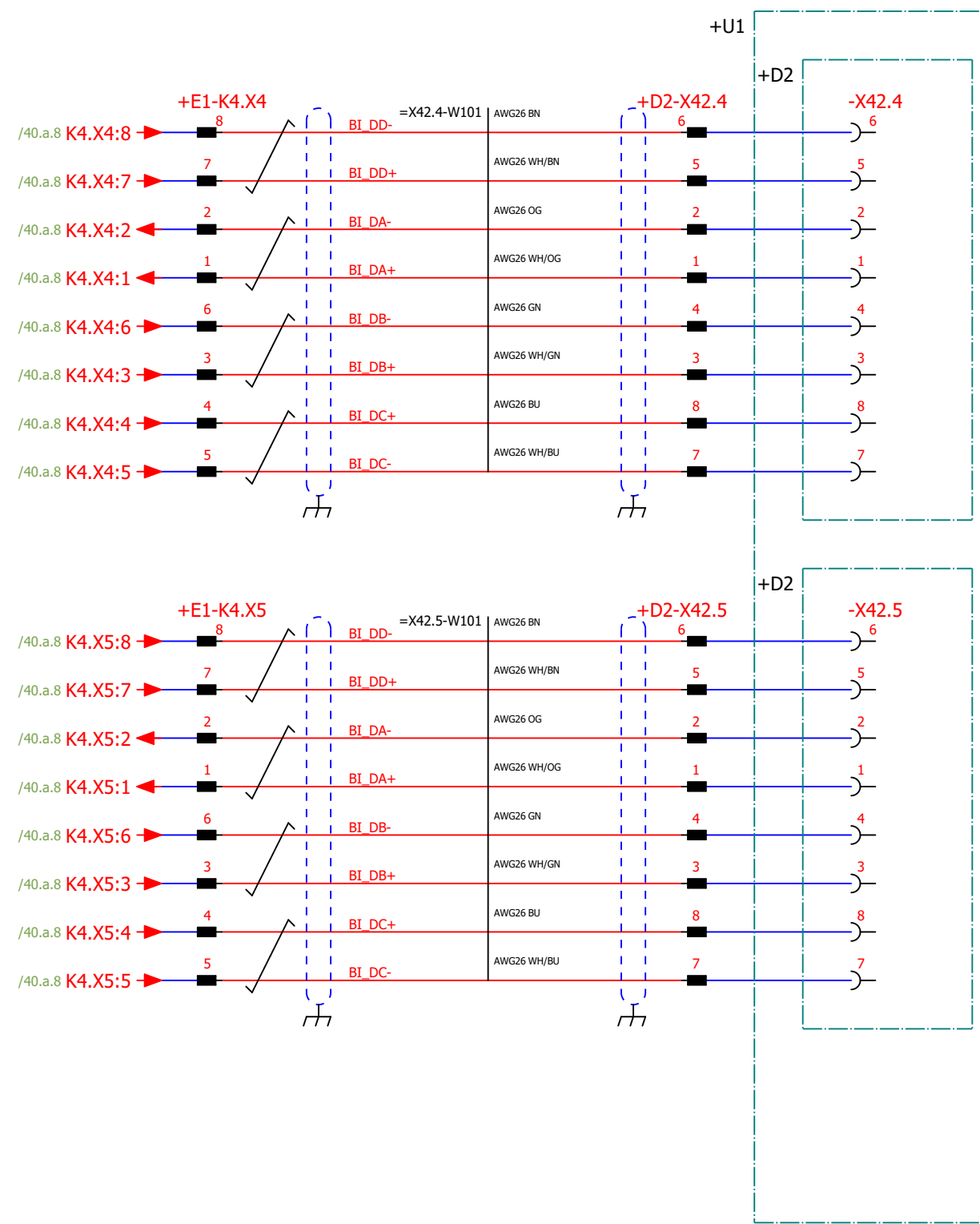
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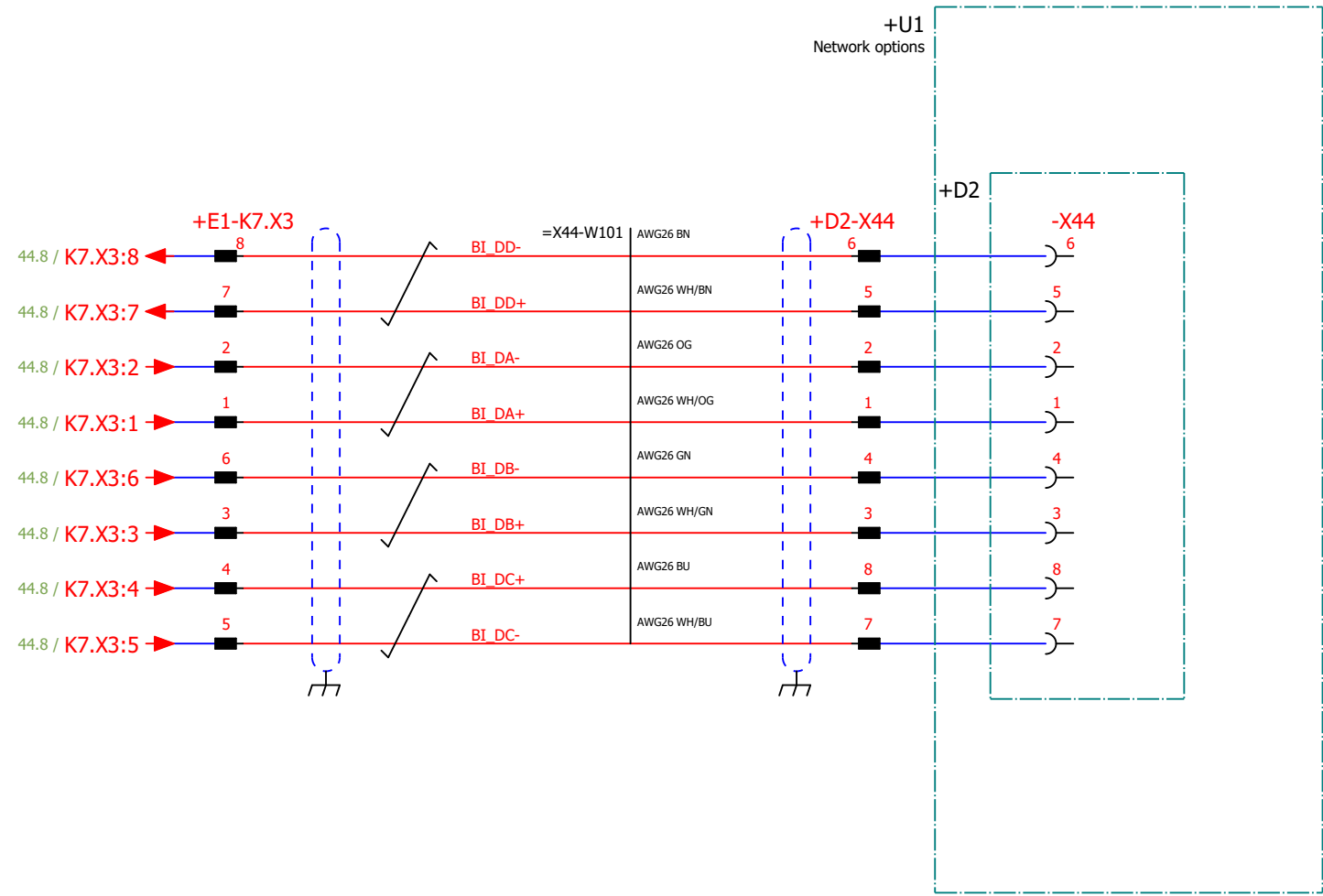


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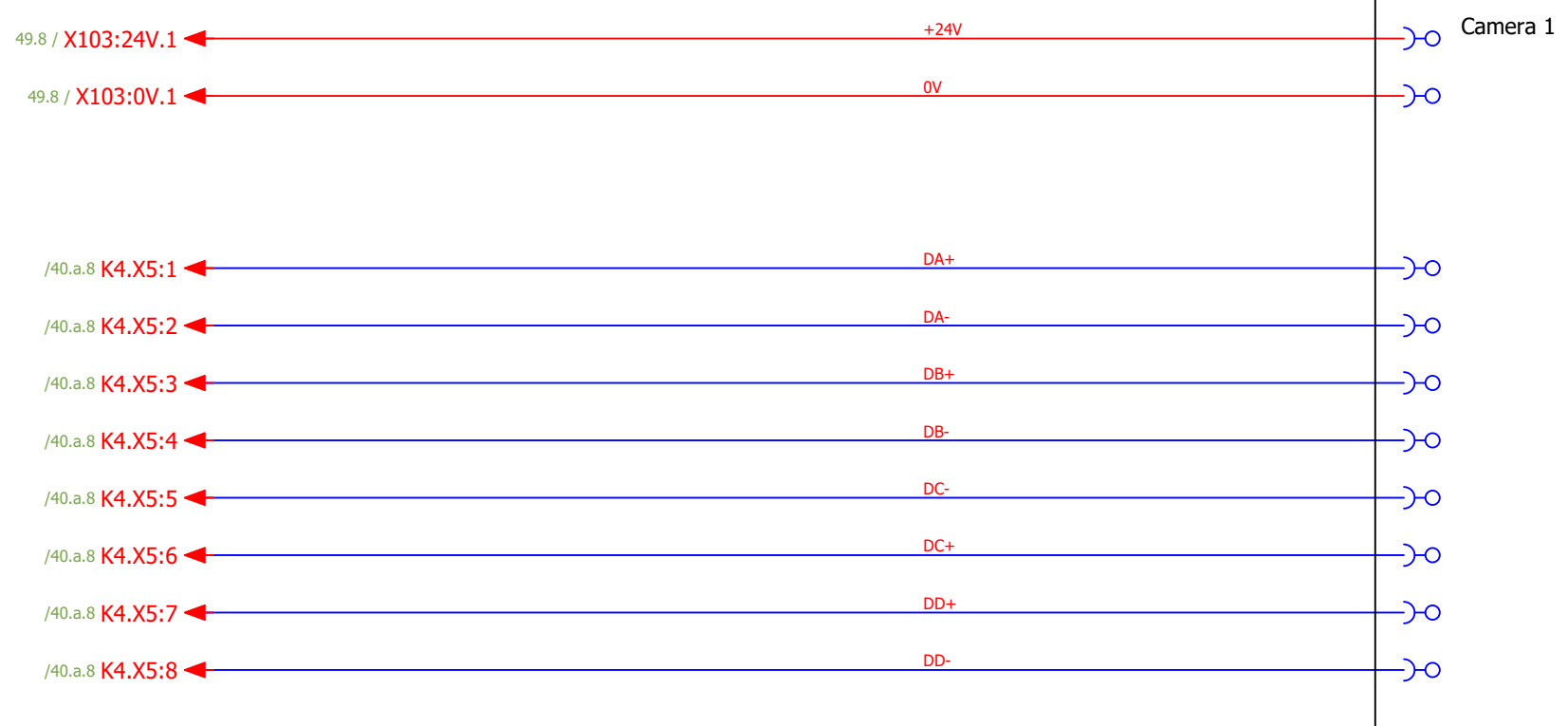
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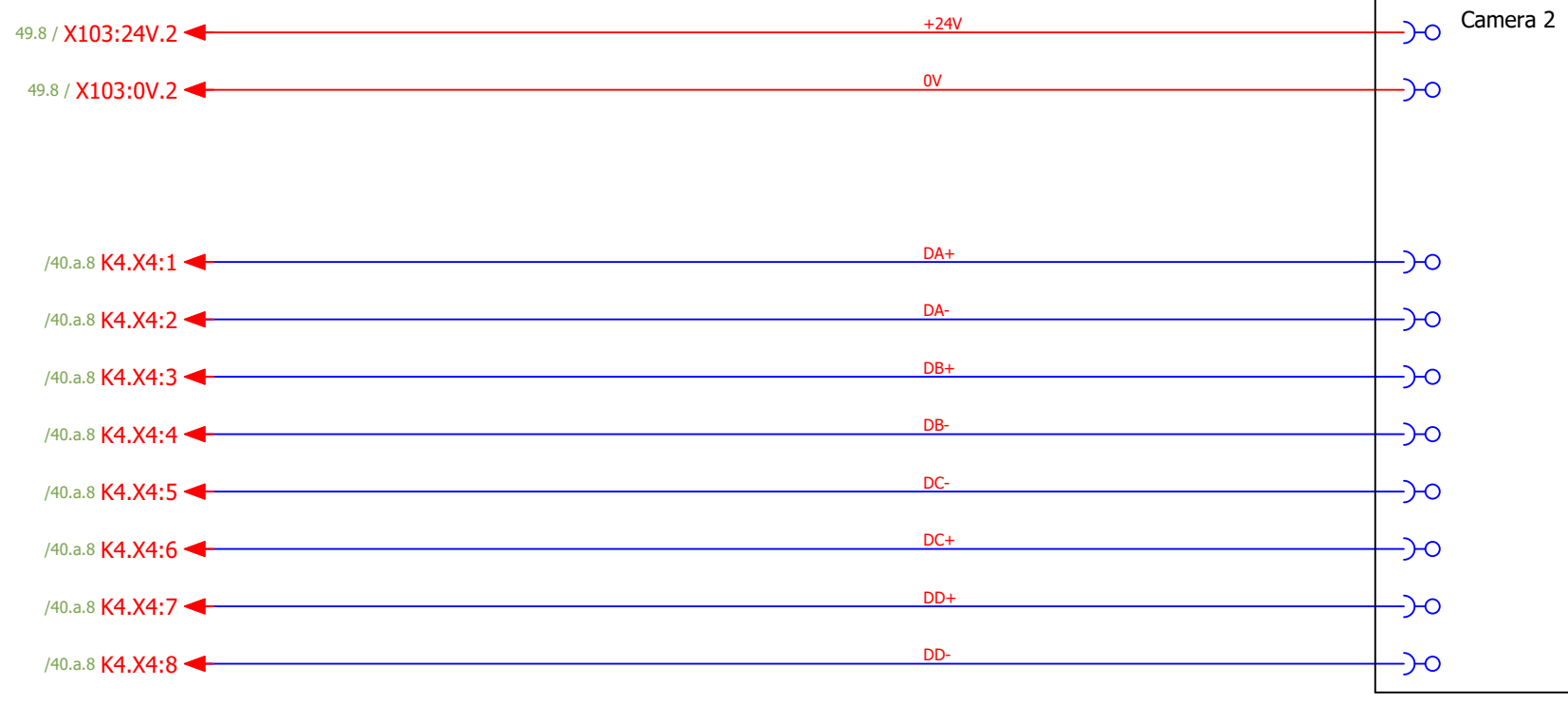
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Option: to Camera 1 for  
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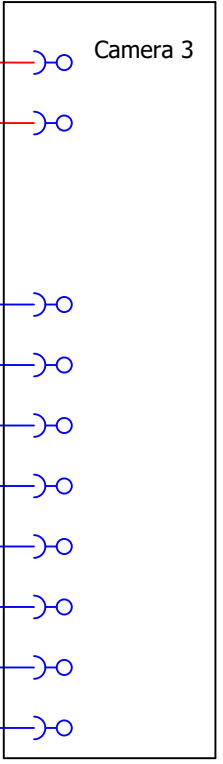
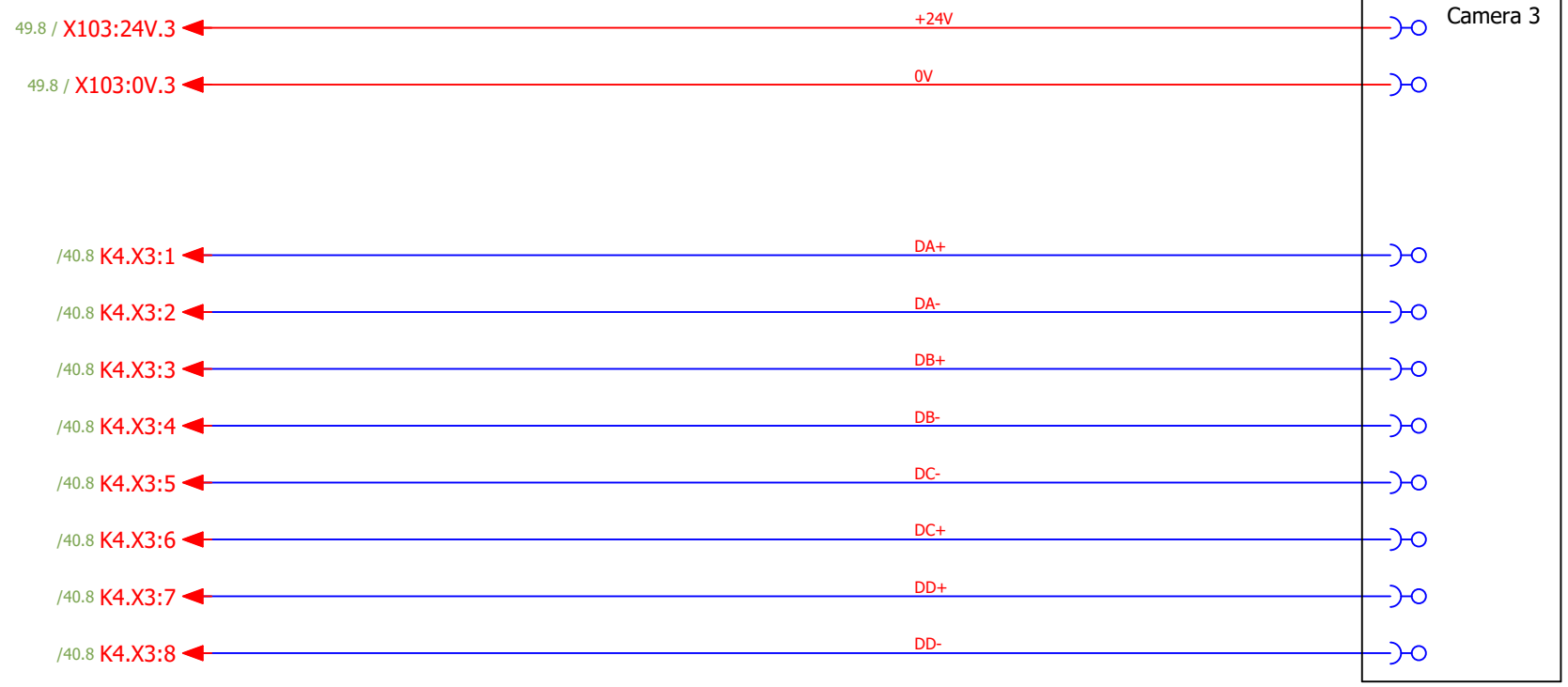
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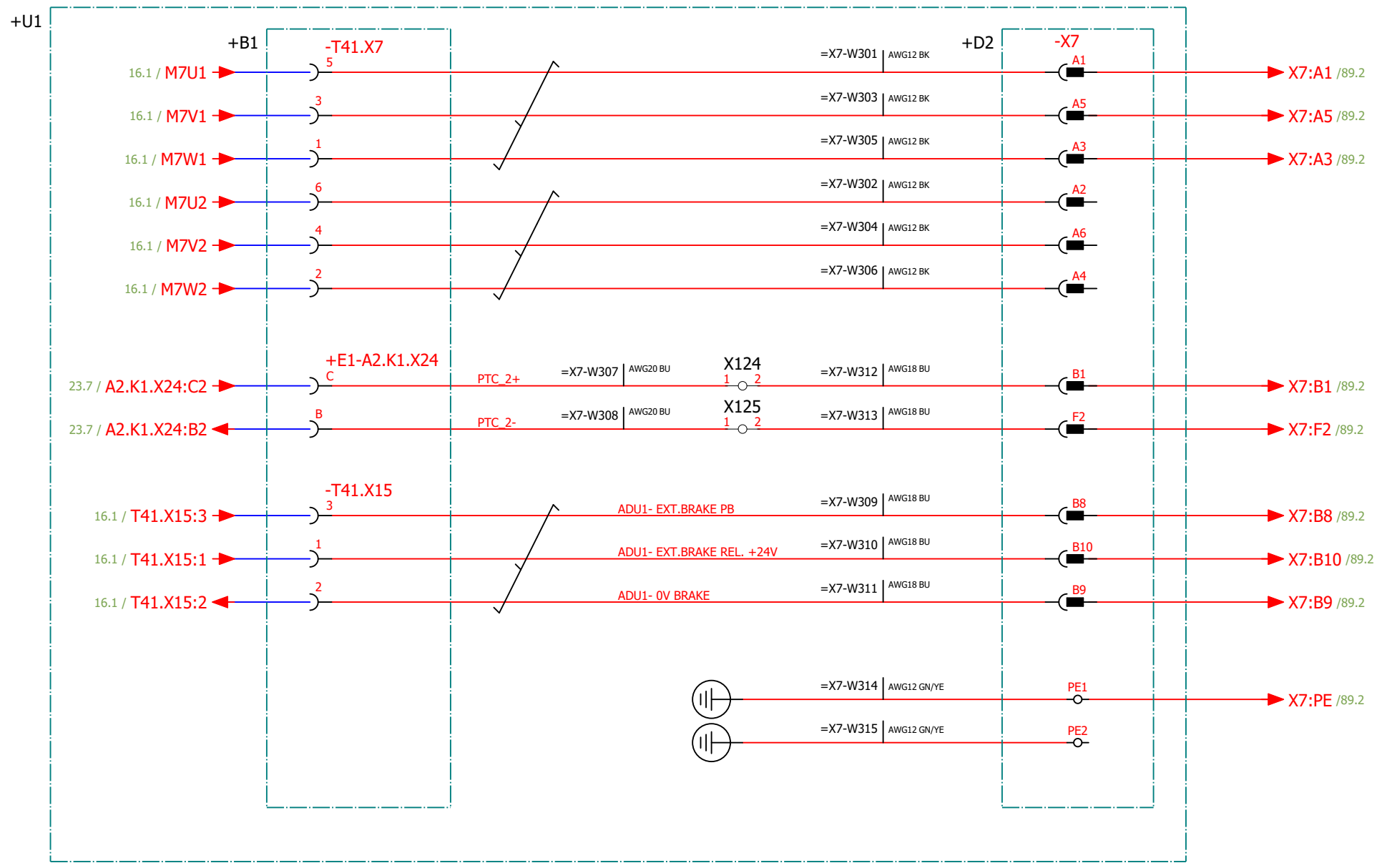
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Option: to Camera 3 for  
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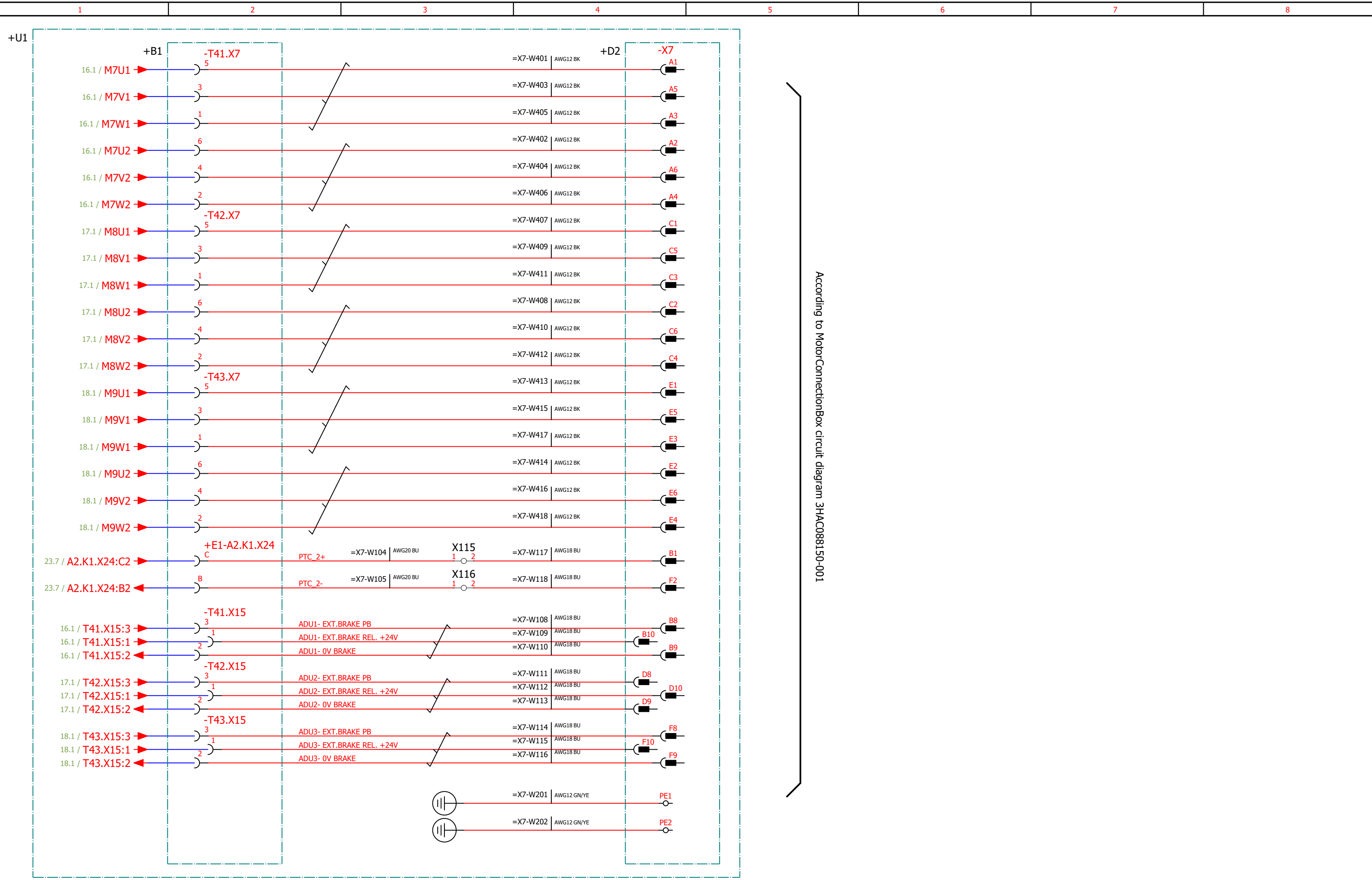
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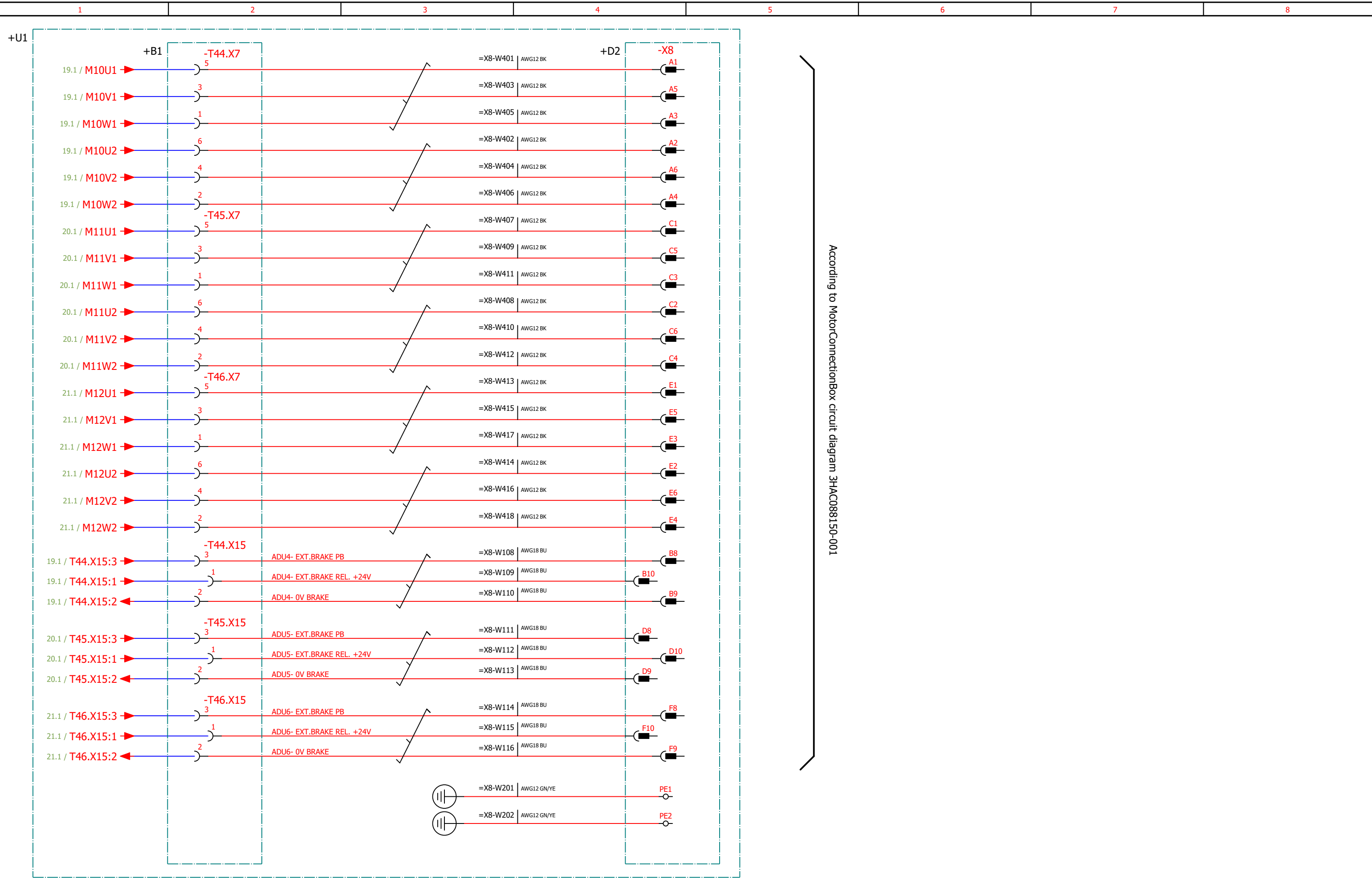


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OmniCore V400XT  
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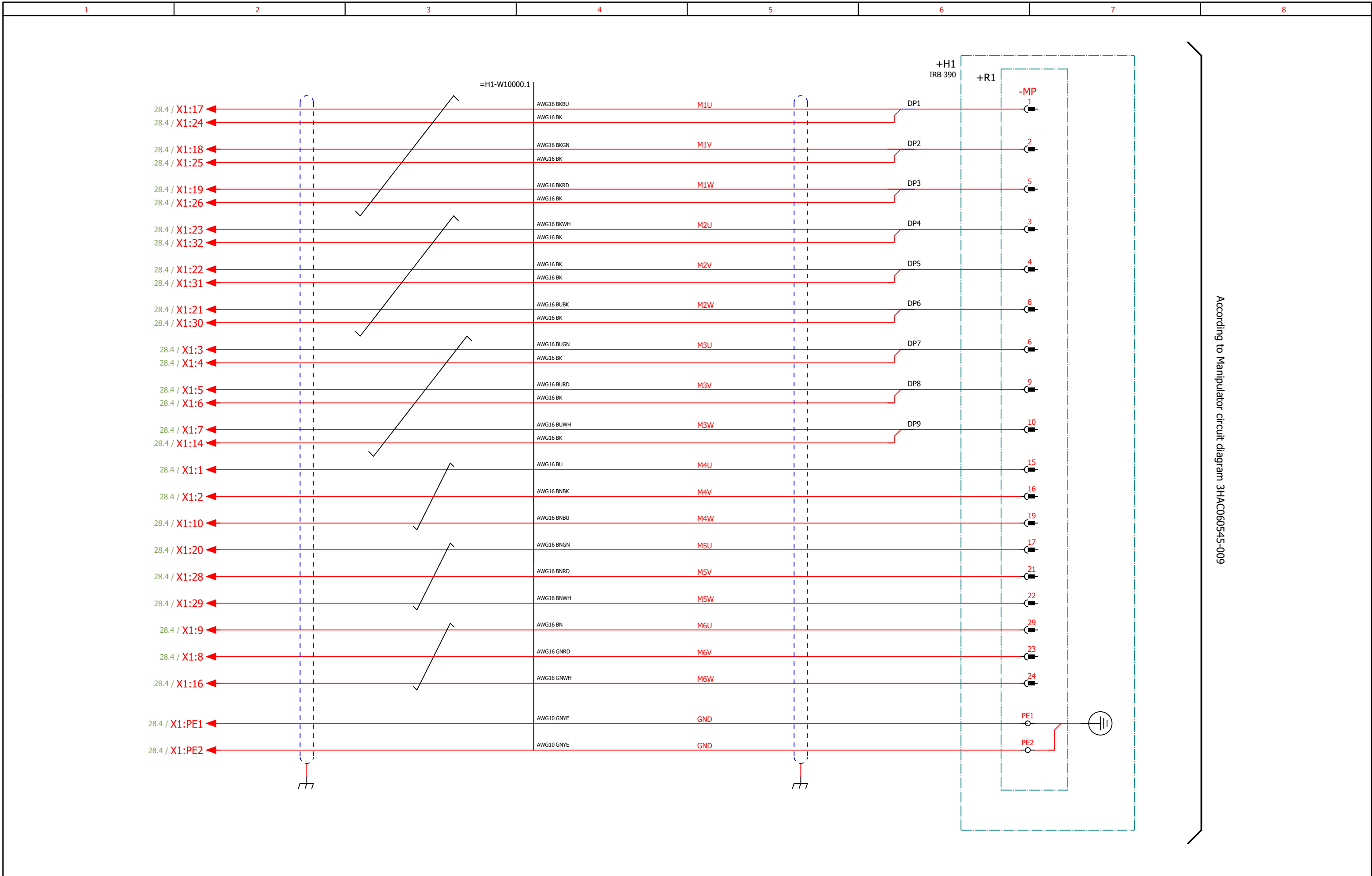
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Lab/Office:

OmniCore V400XT  
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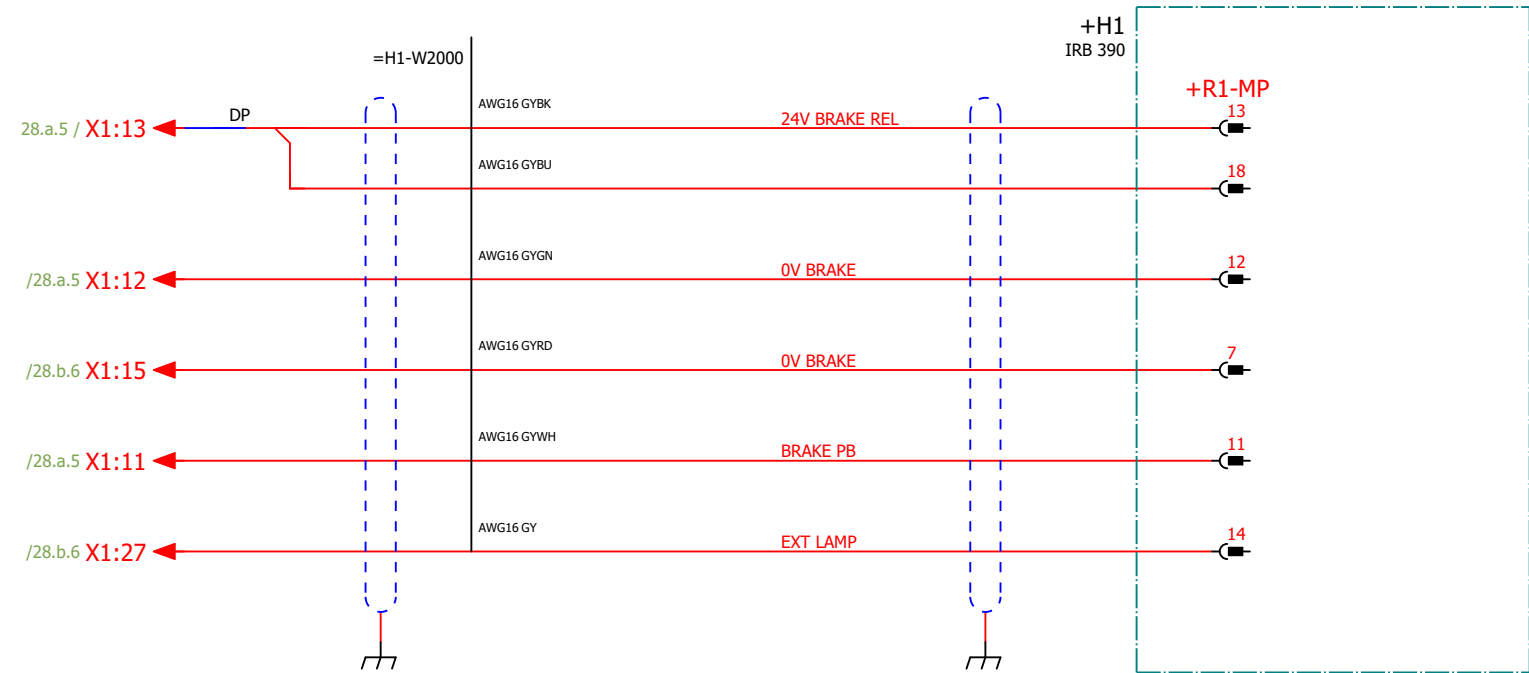
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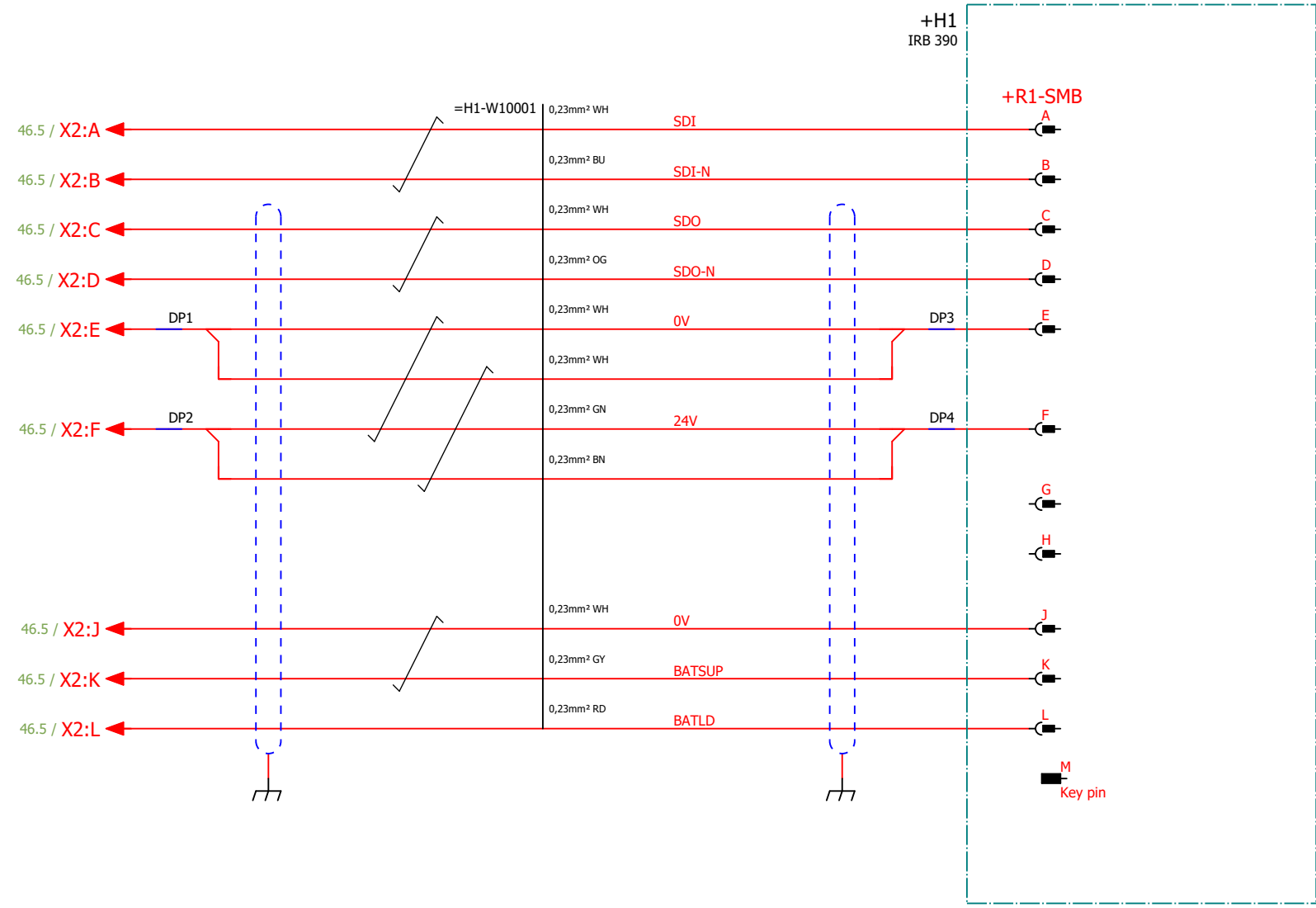


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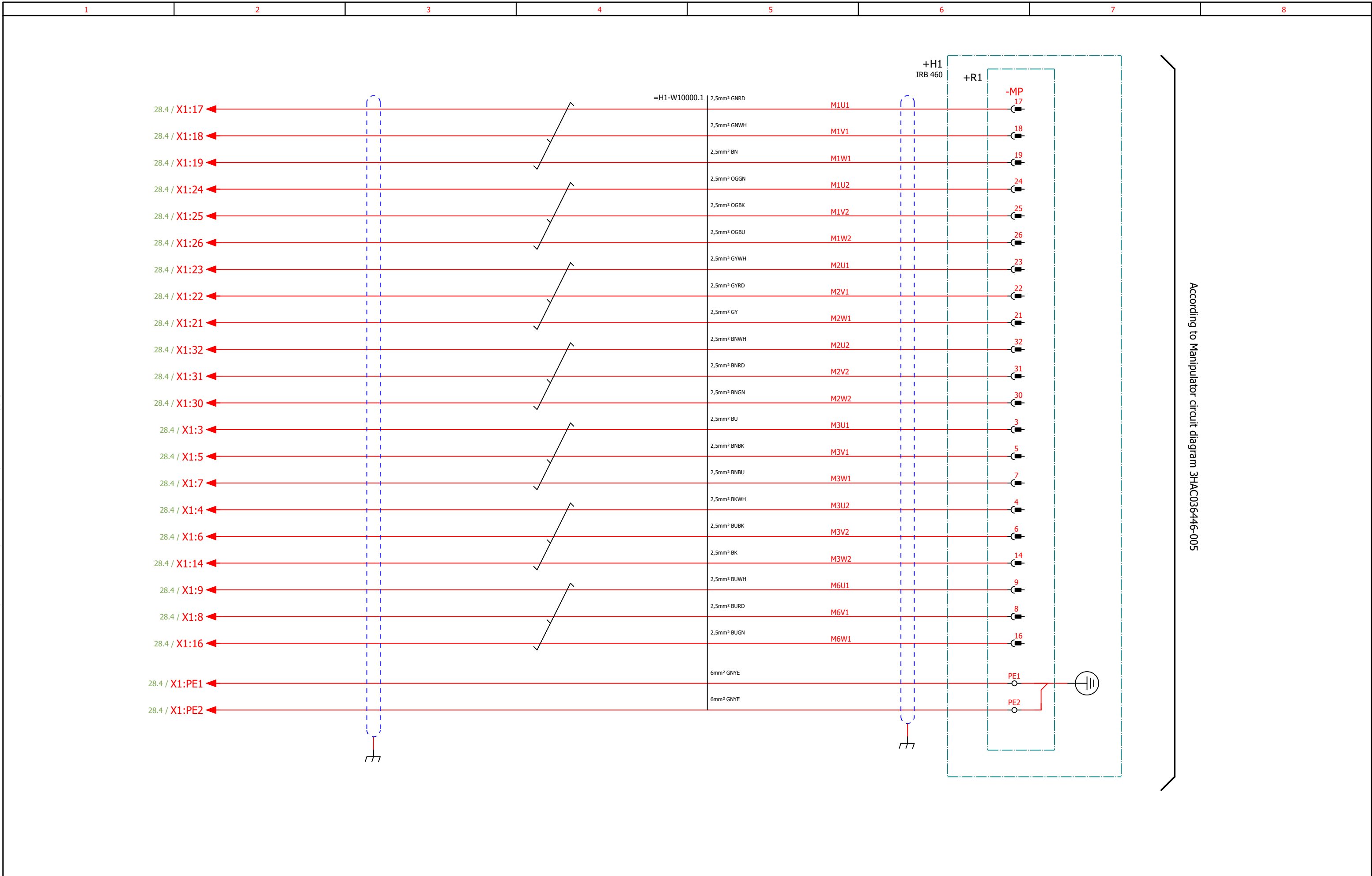




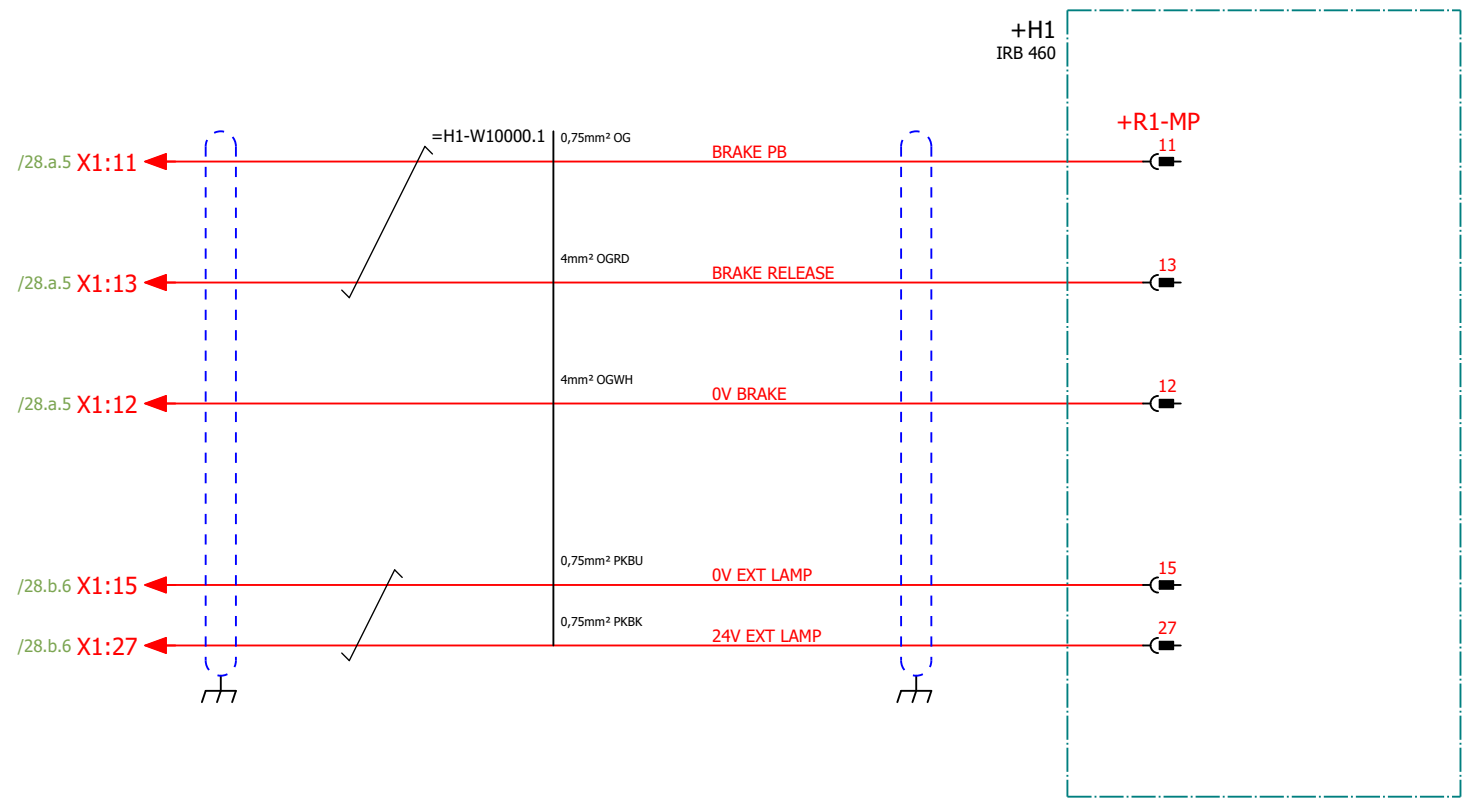
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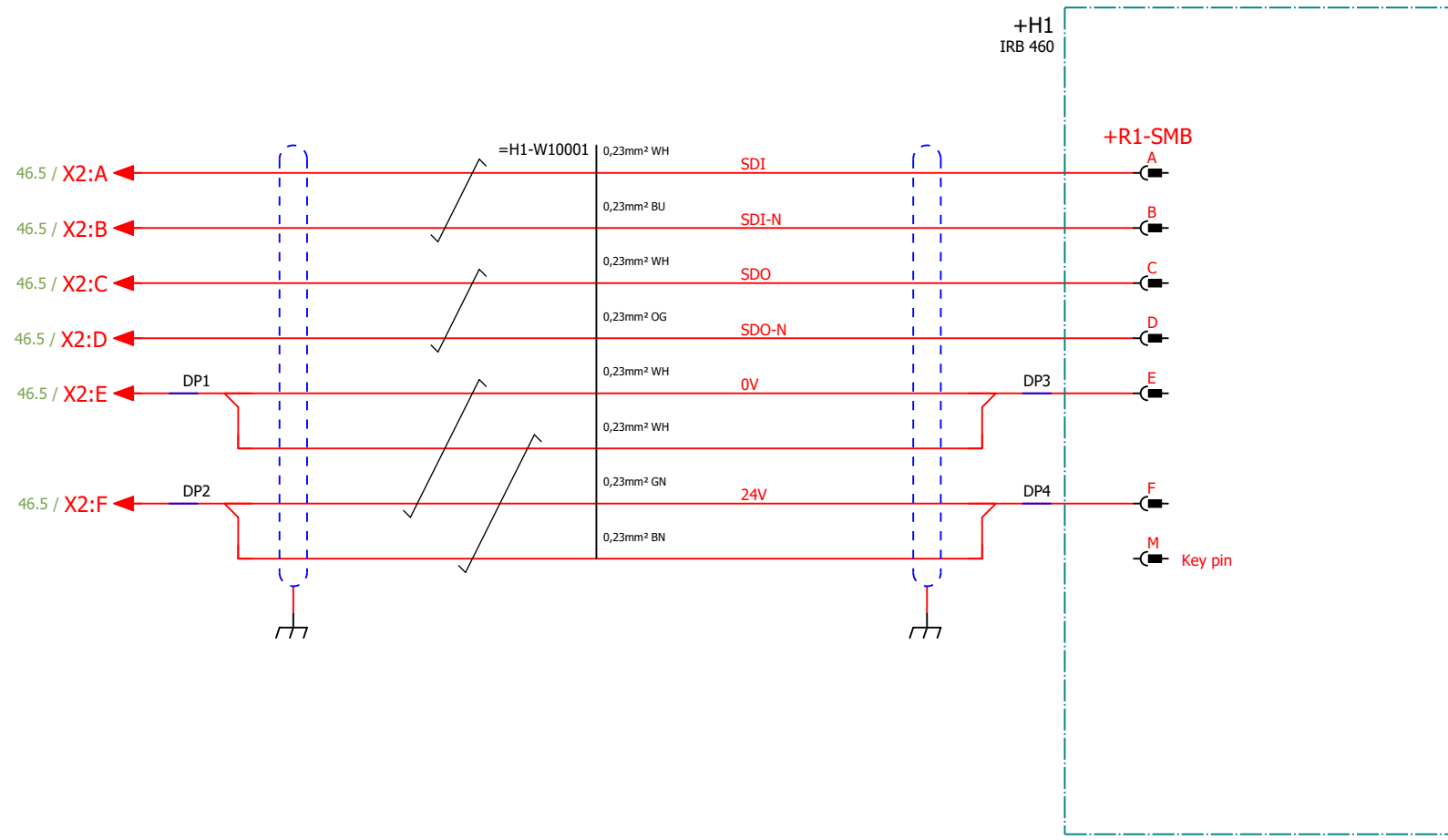
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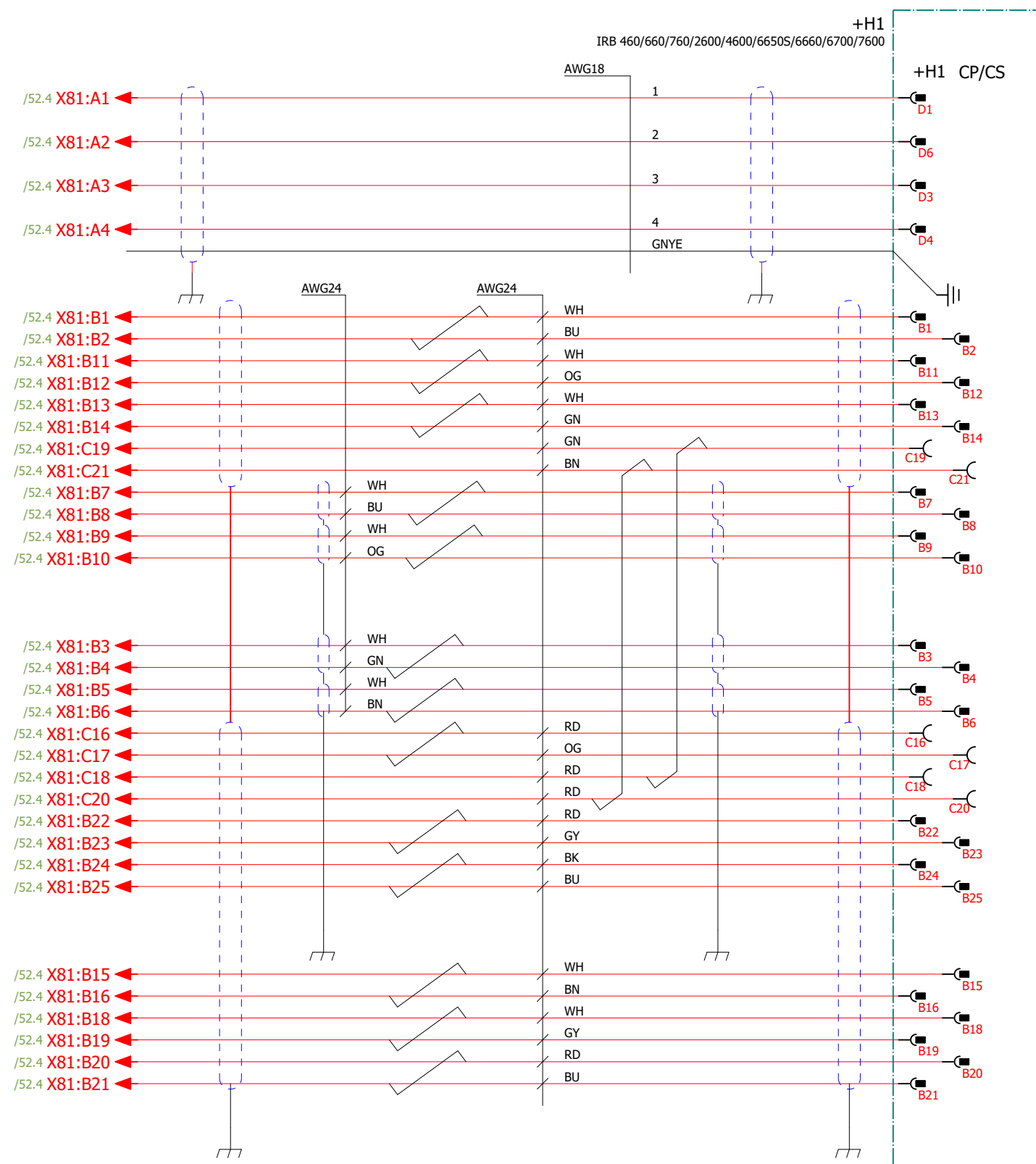
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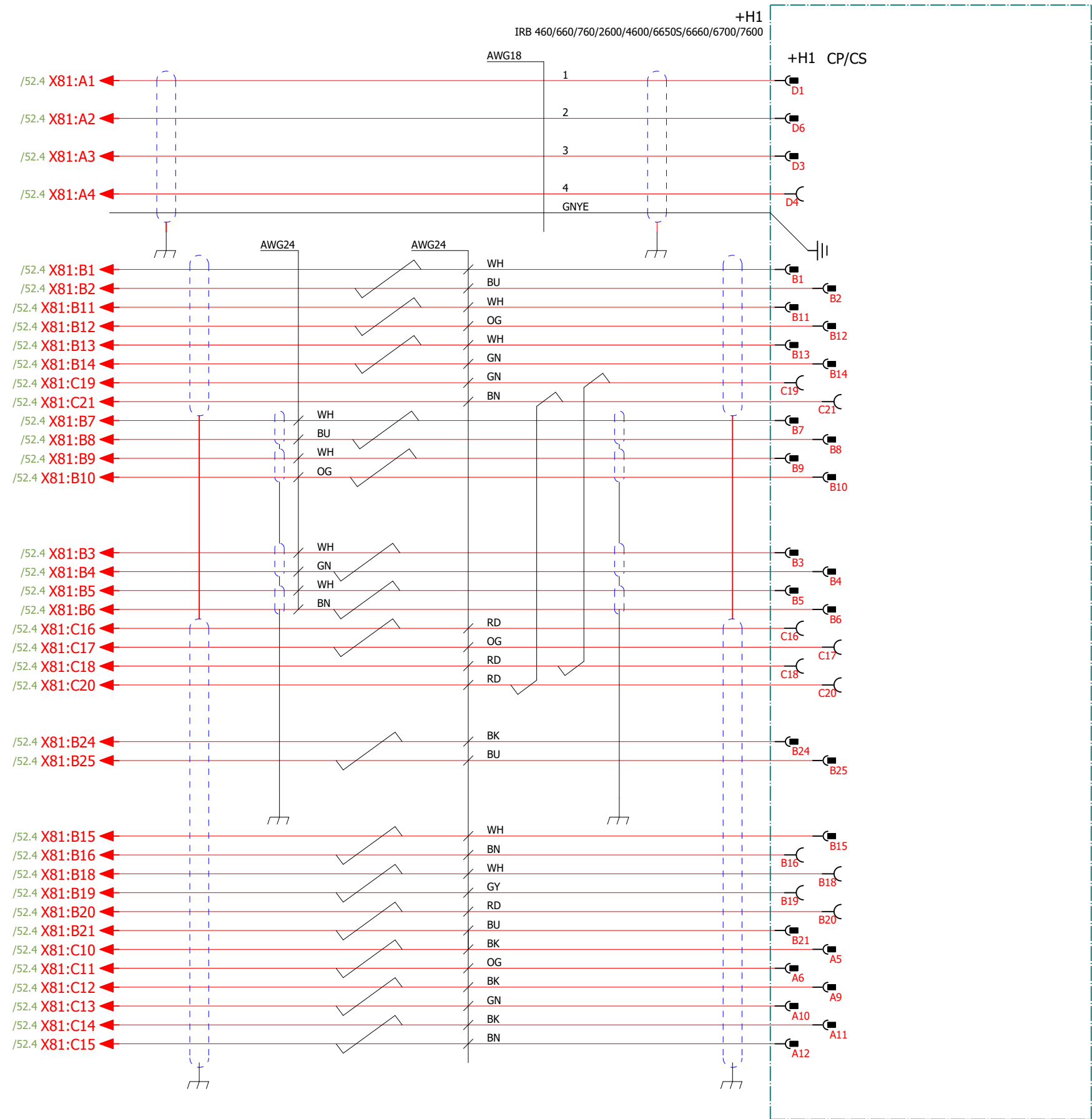
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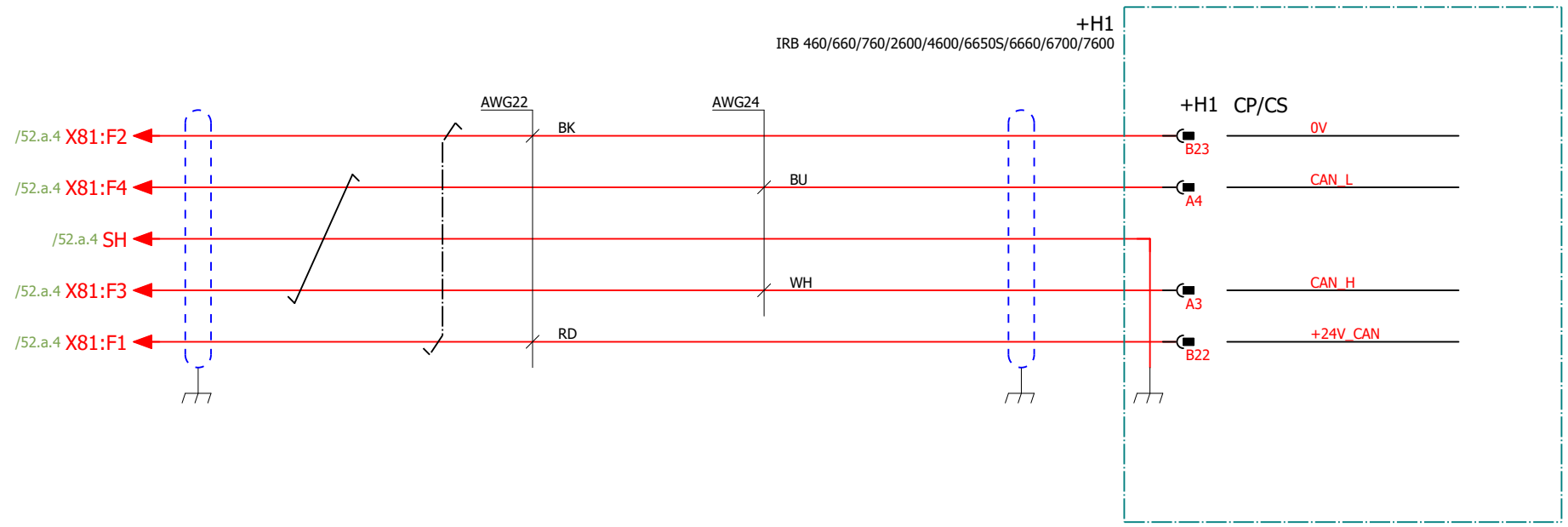
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According to Manipulator circuit diagram 3HAC025744-001 and 3HAC13347-1

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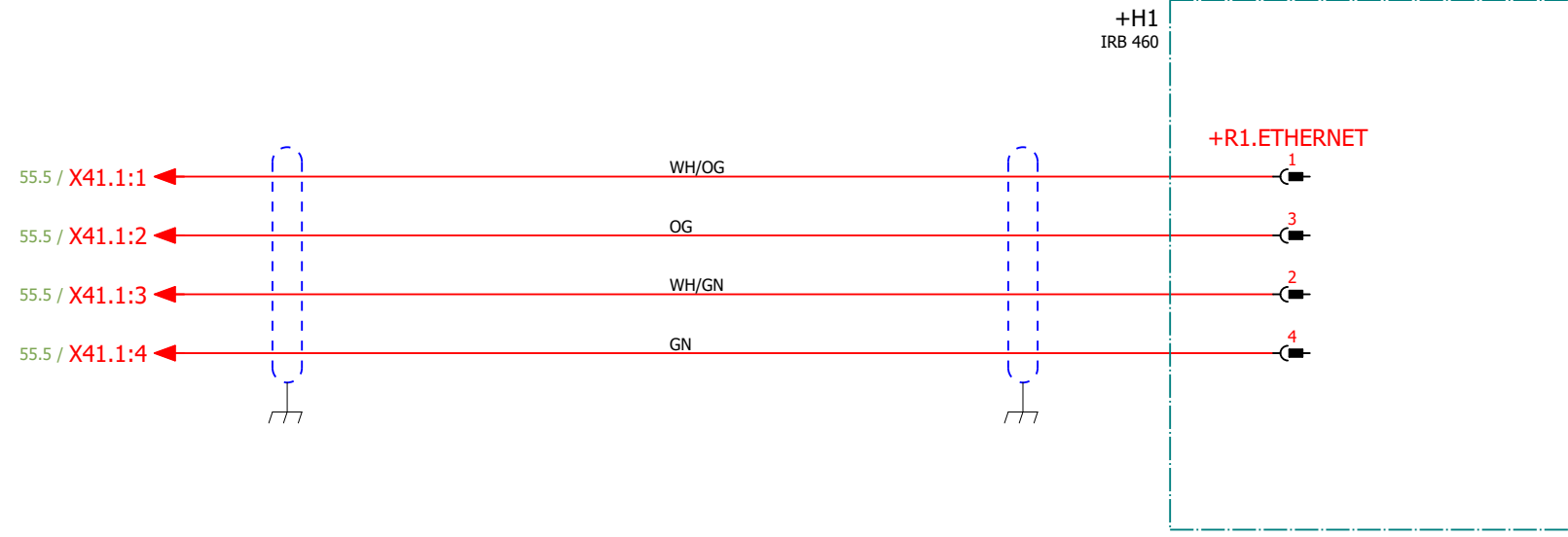
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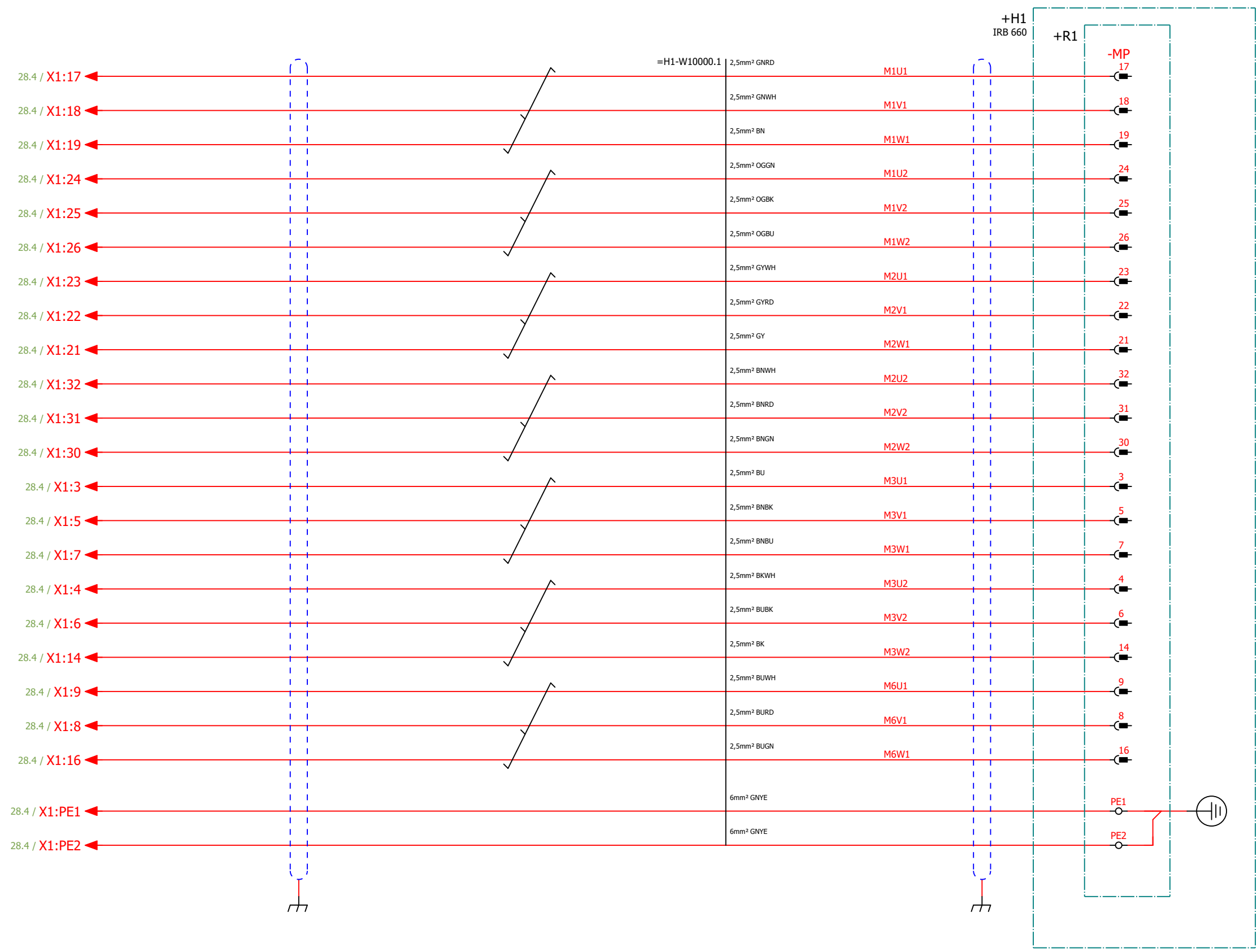


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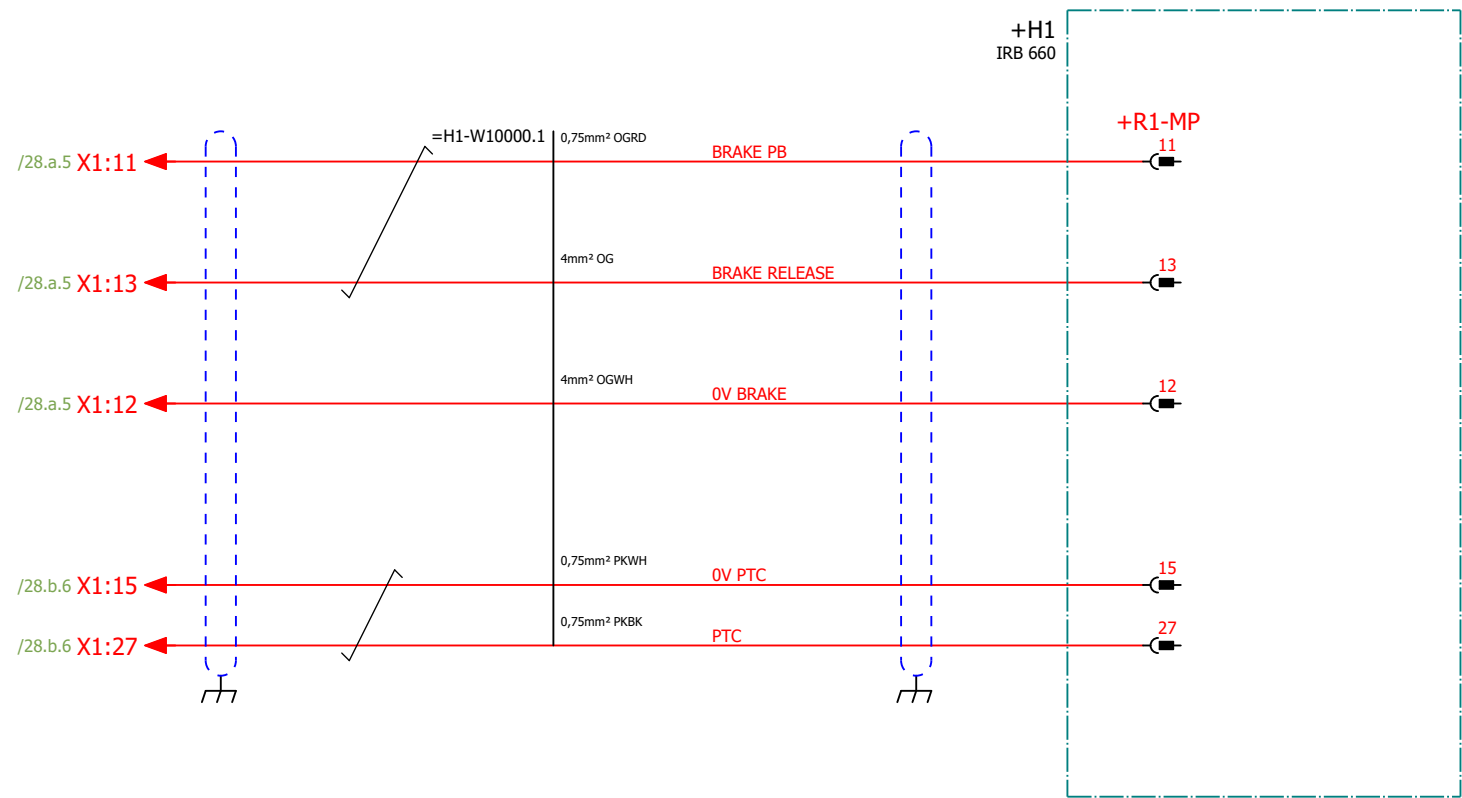
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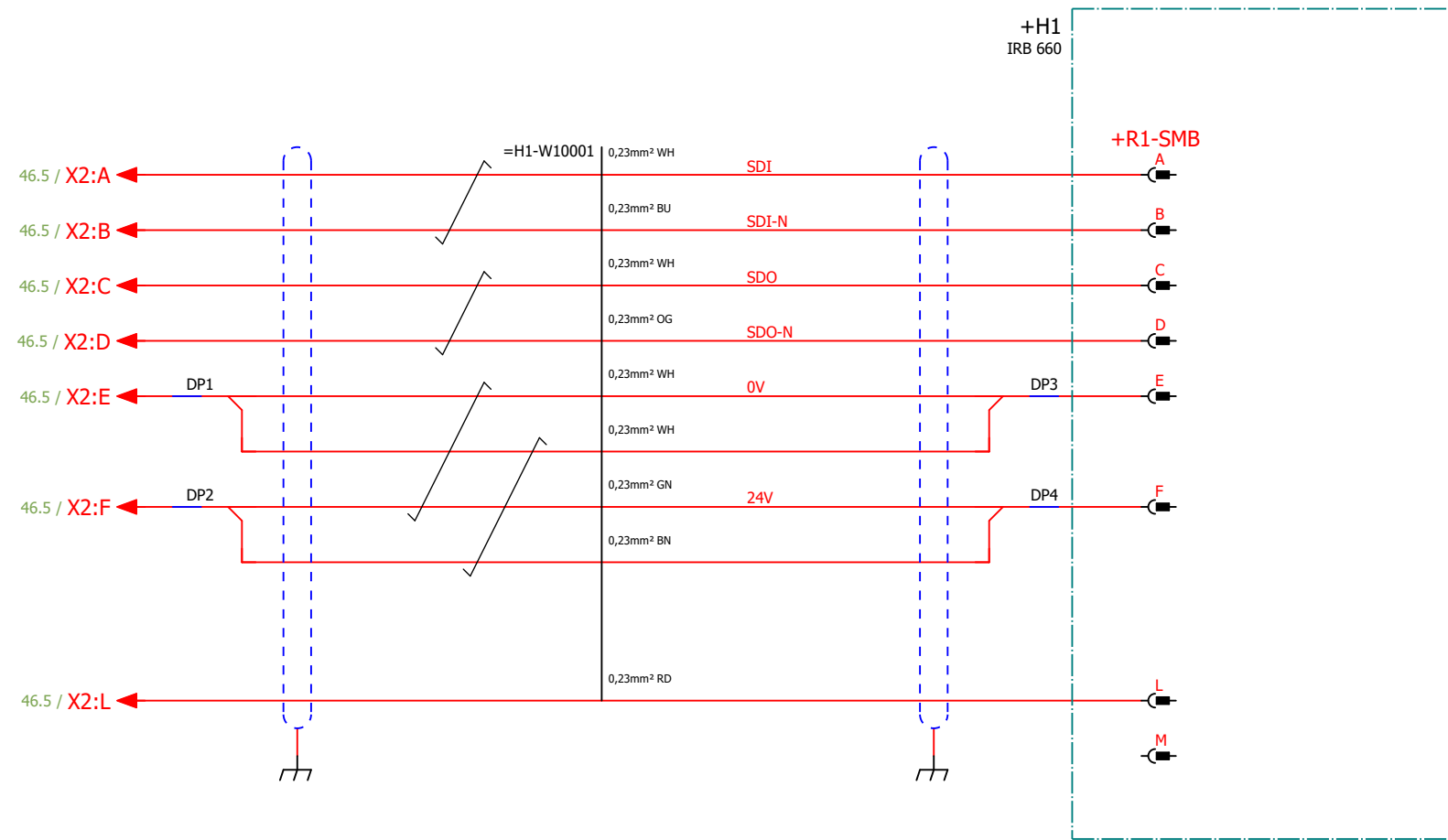
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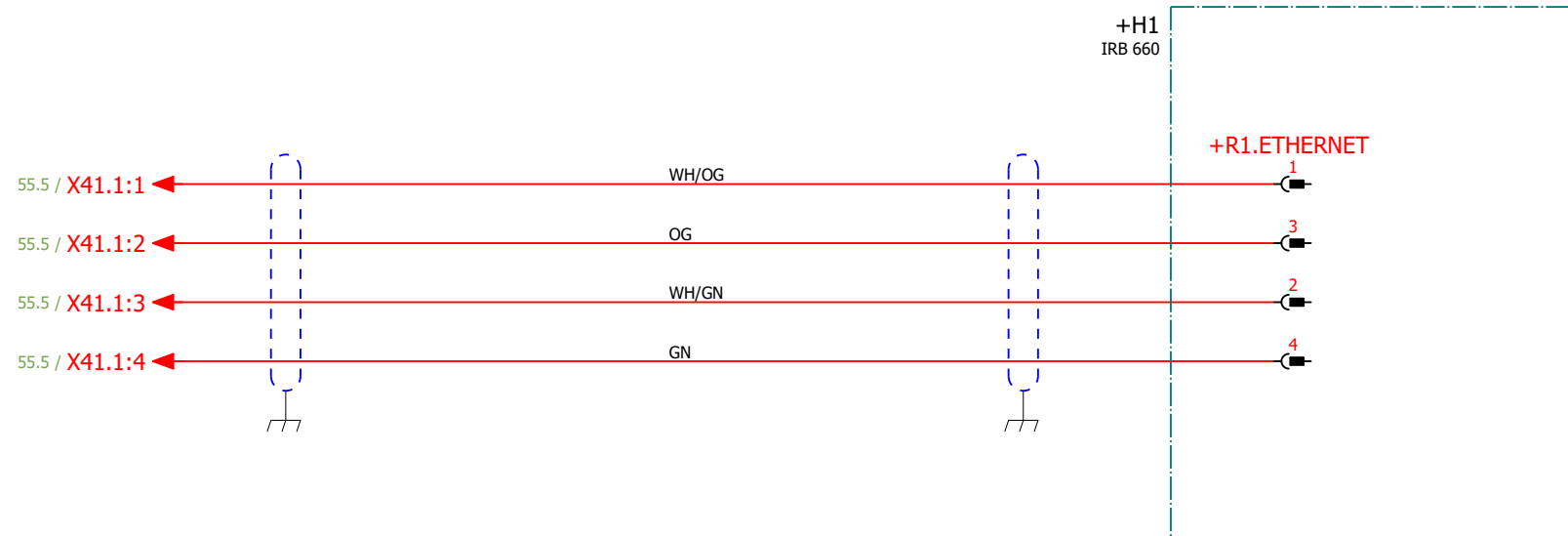
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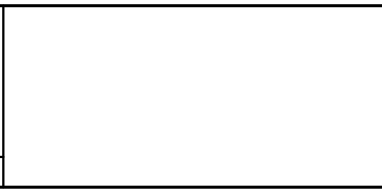
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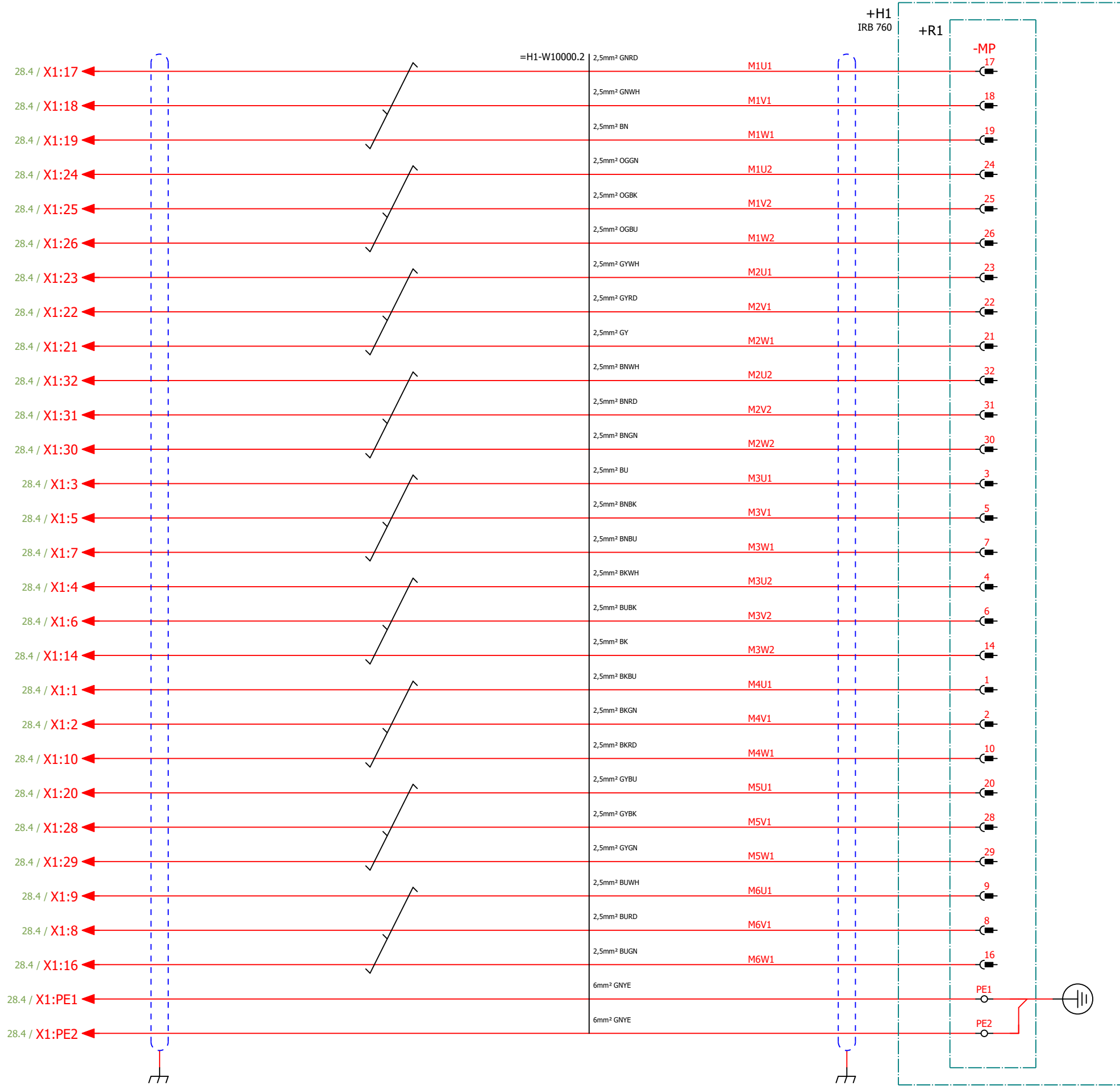
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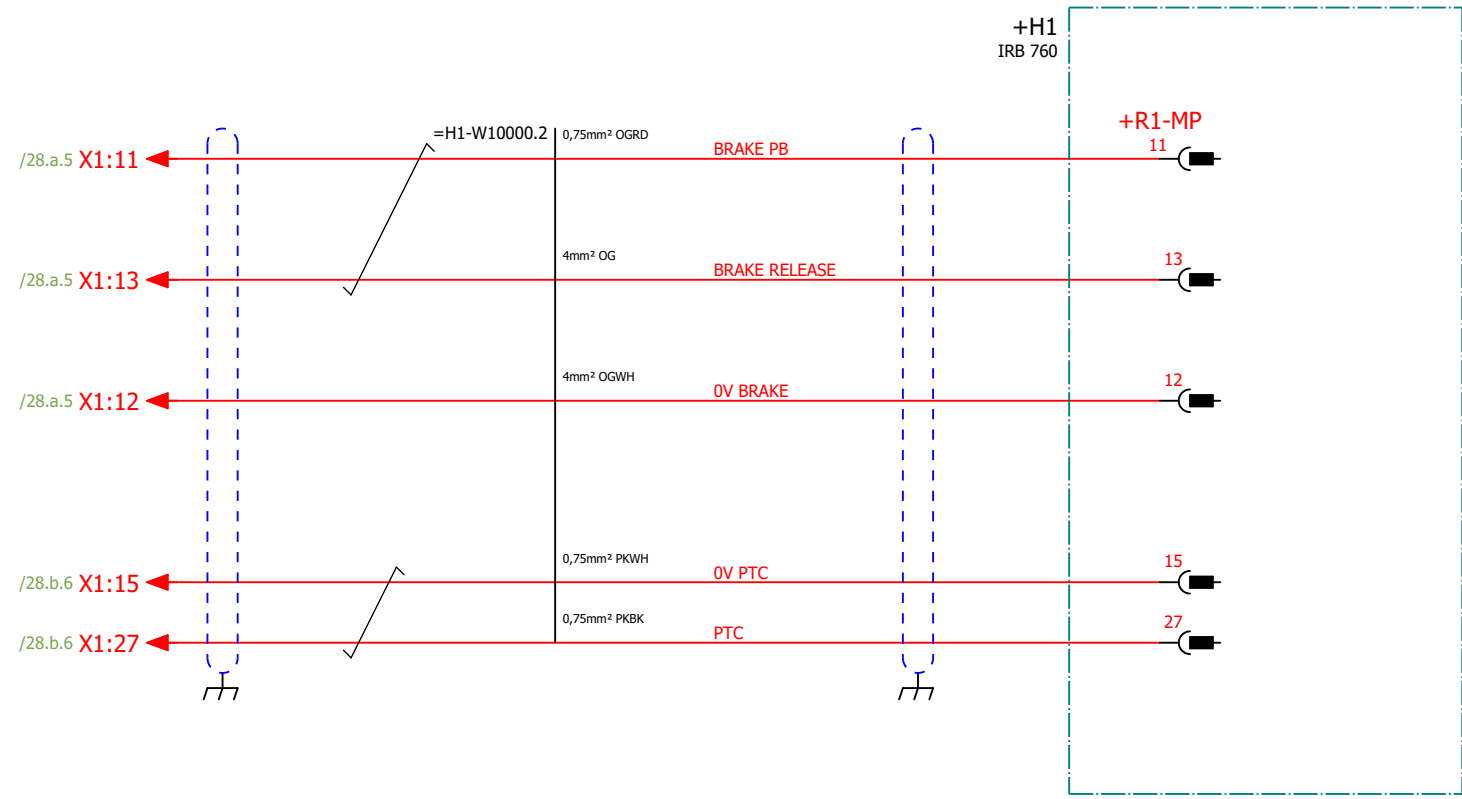


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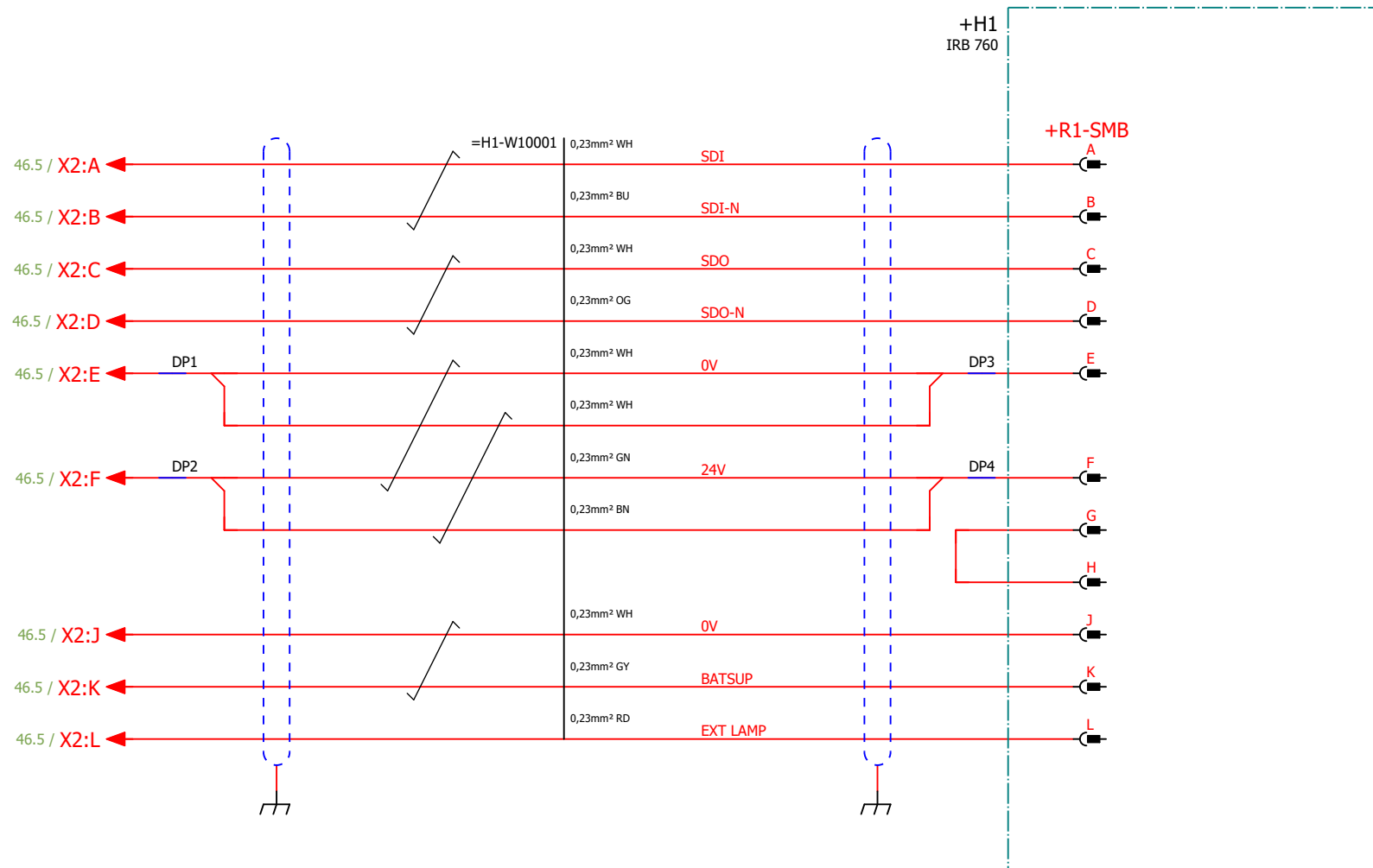
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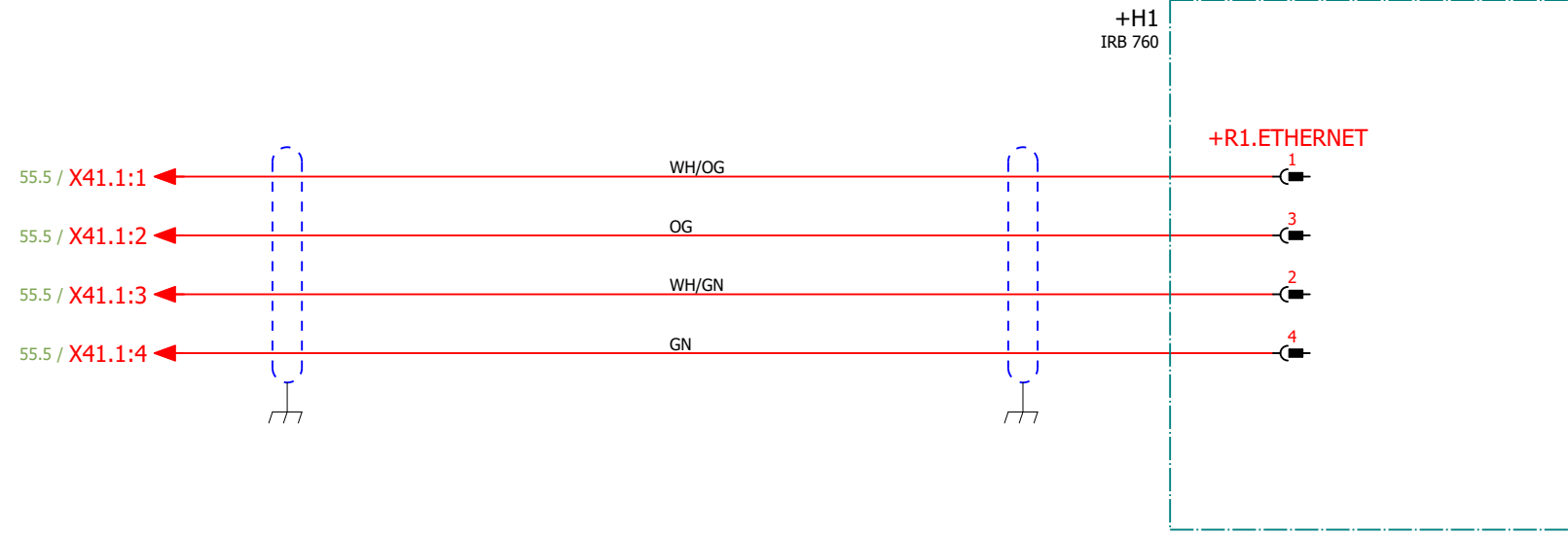
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SMB IRB 760

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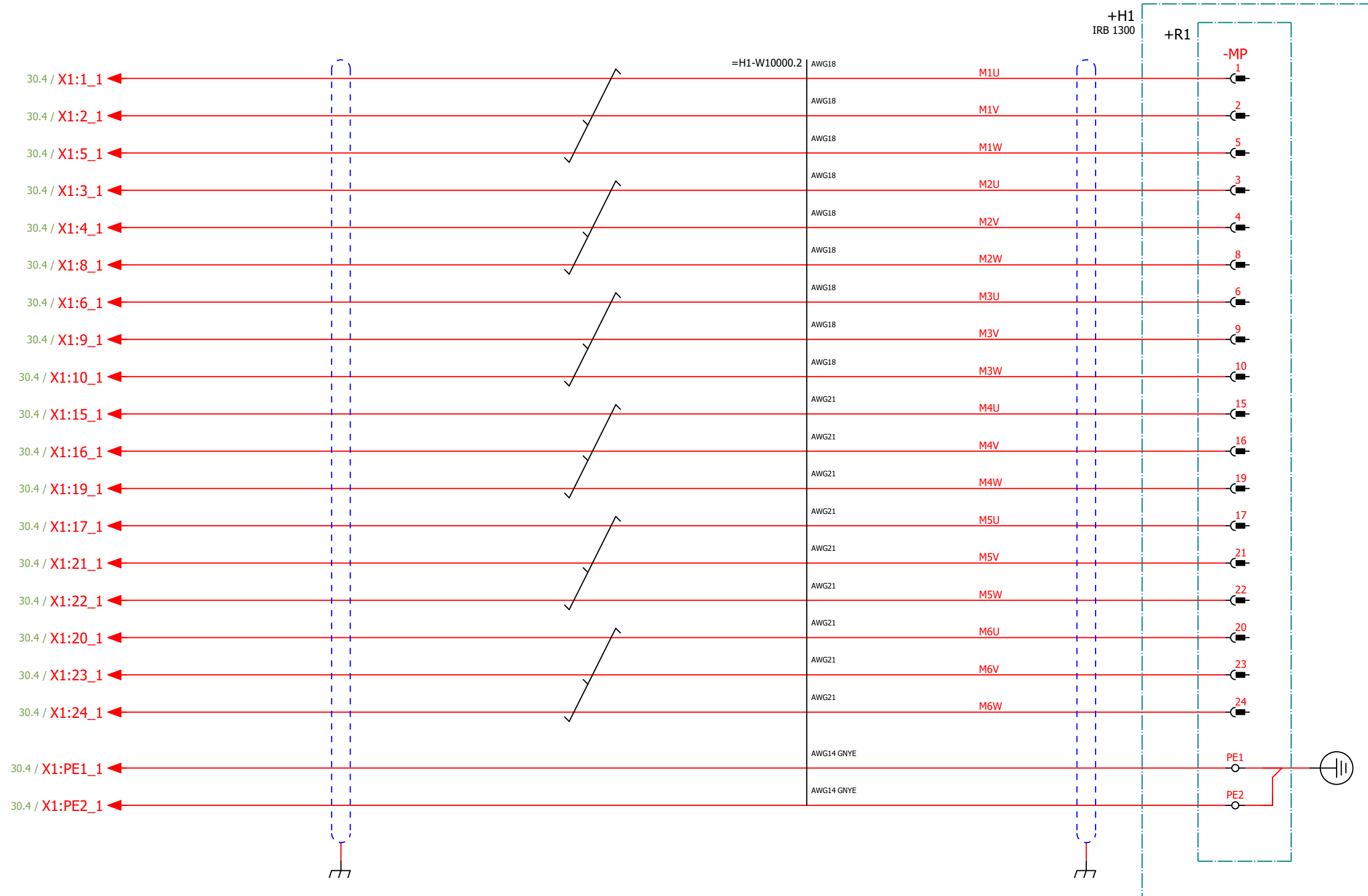


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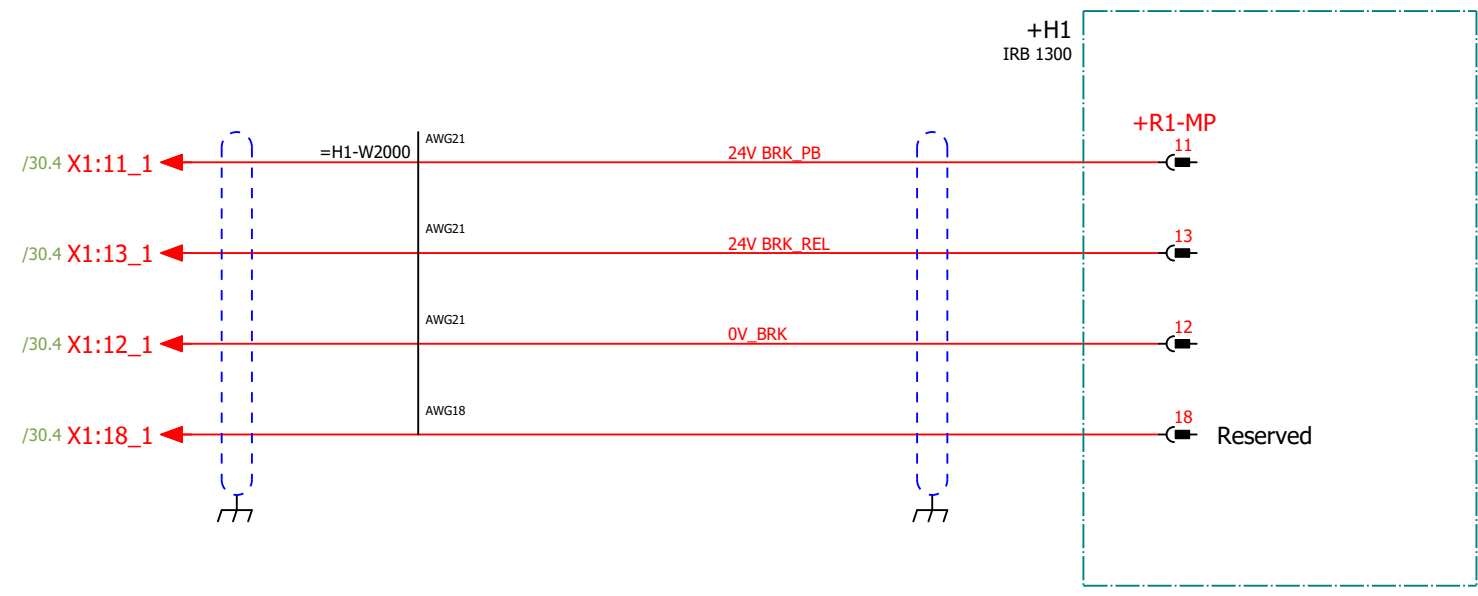




According to Manipulator circuit diagram 3HAC068887-003

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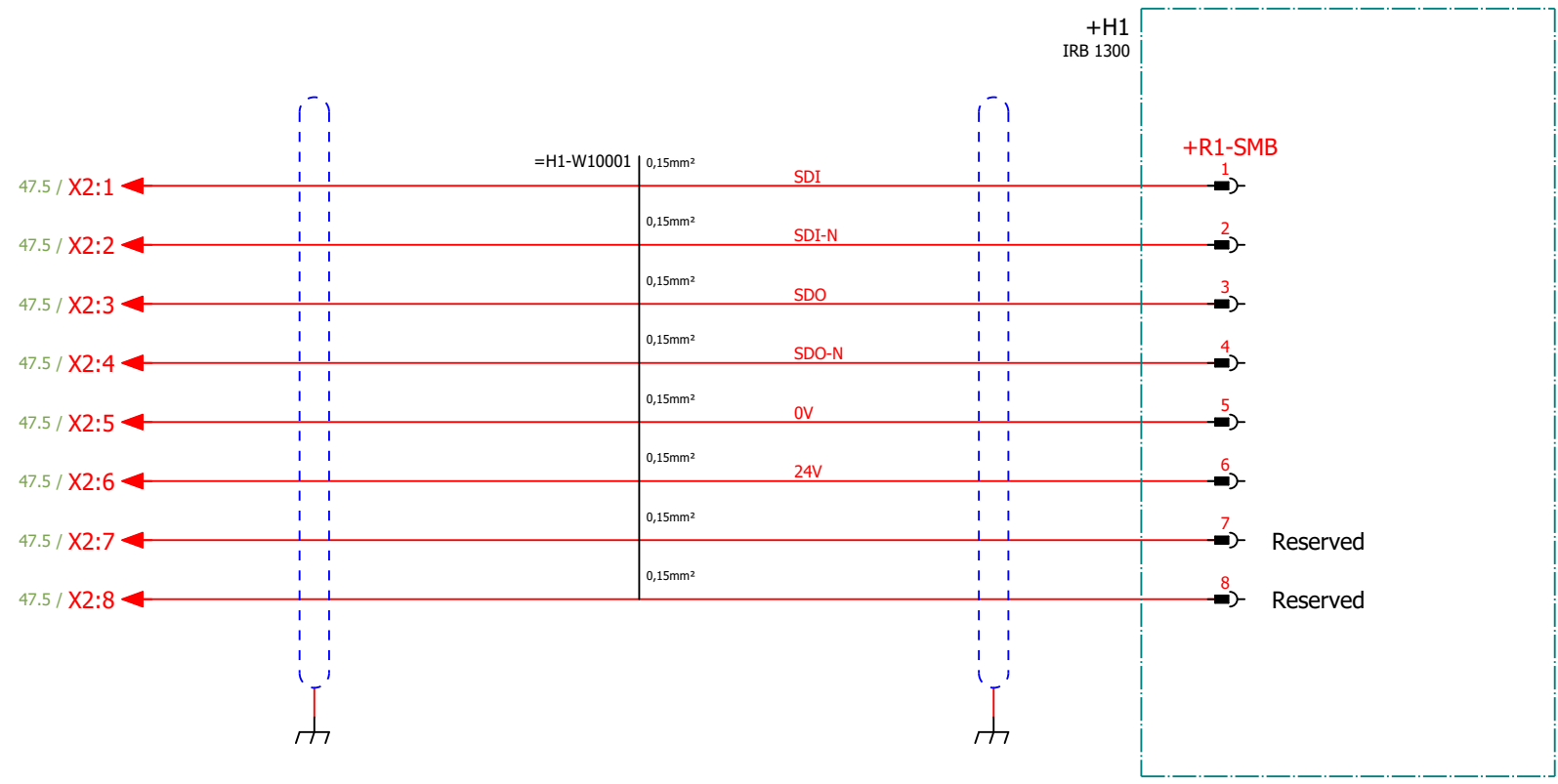
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According to Manipulator circuit diagram 3HAC068887-003

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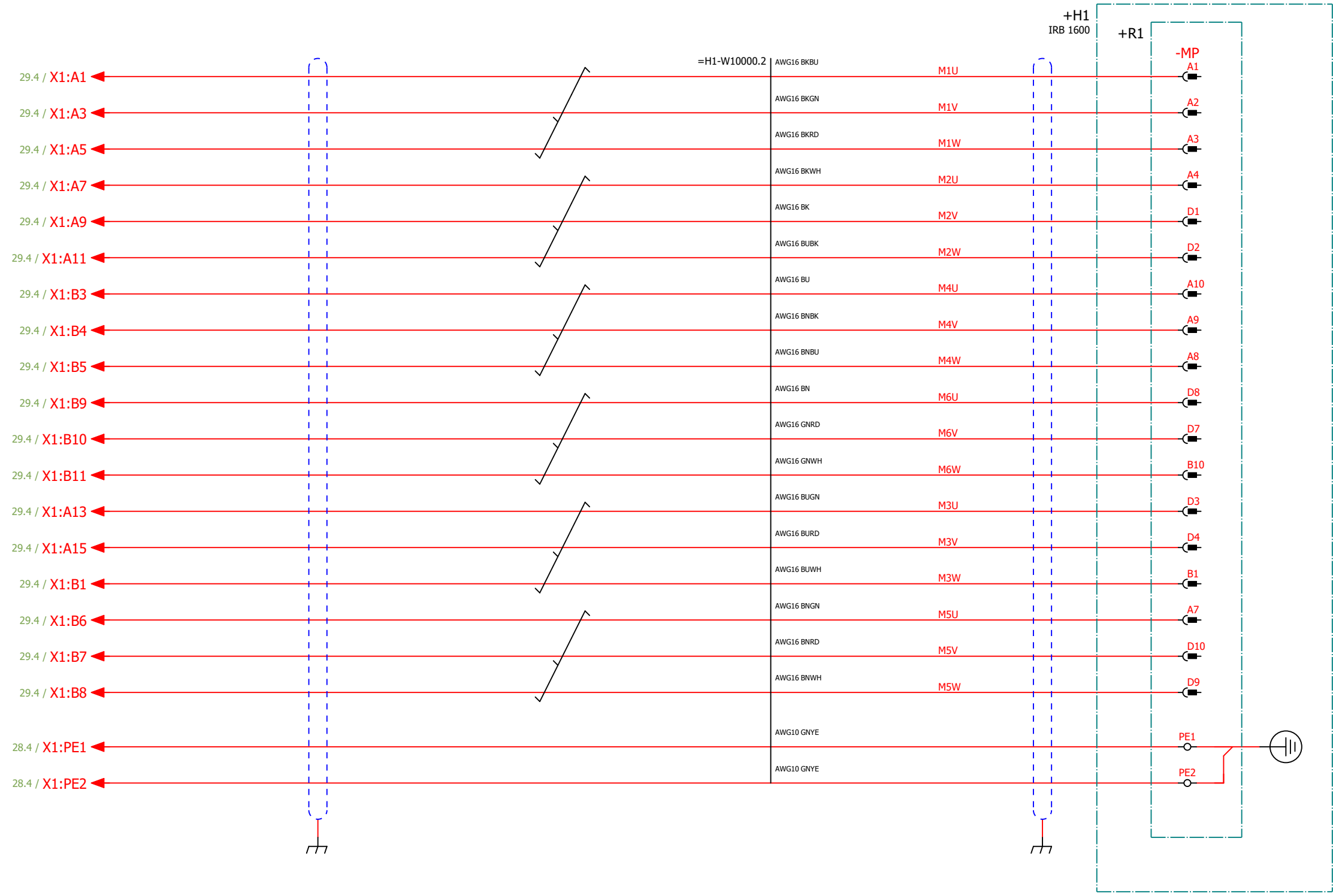
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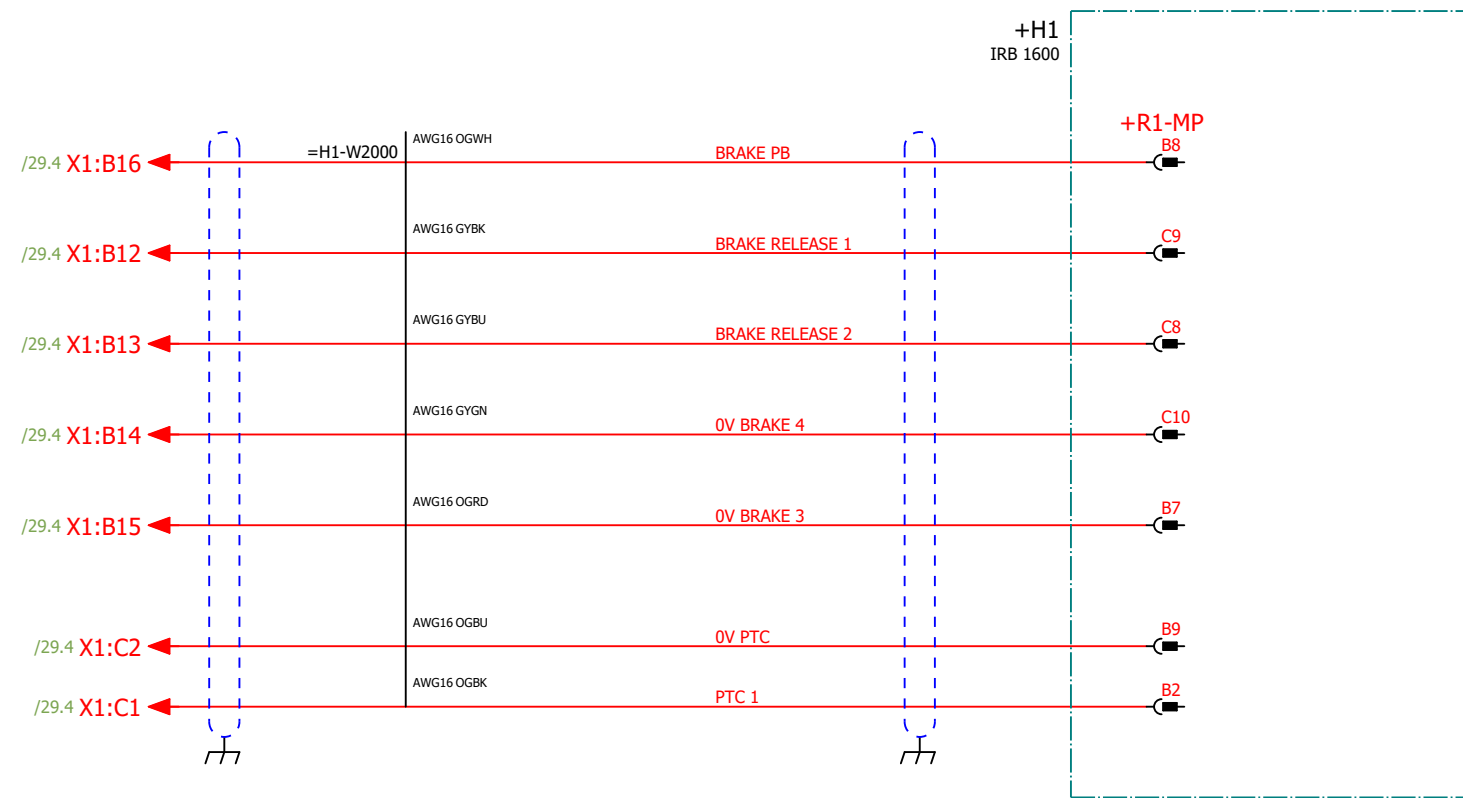
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SMB IRB 1300

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According to Manipulator circuit diagram 3HAC021351-003

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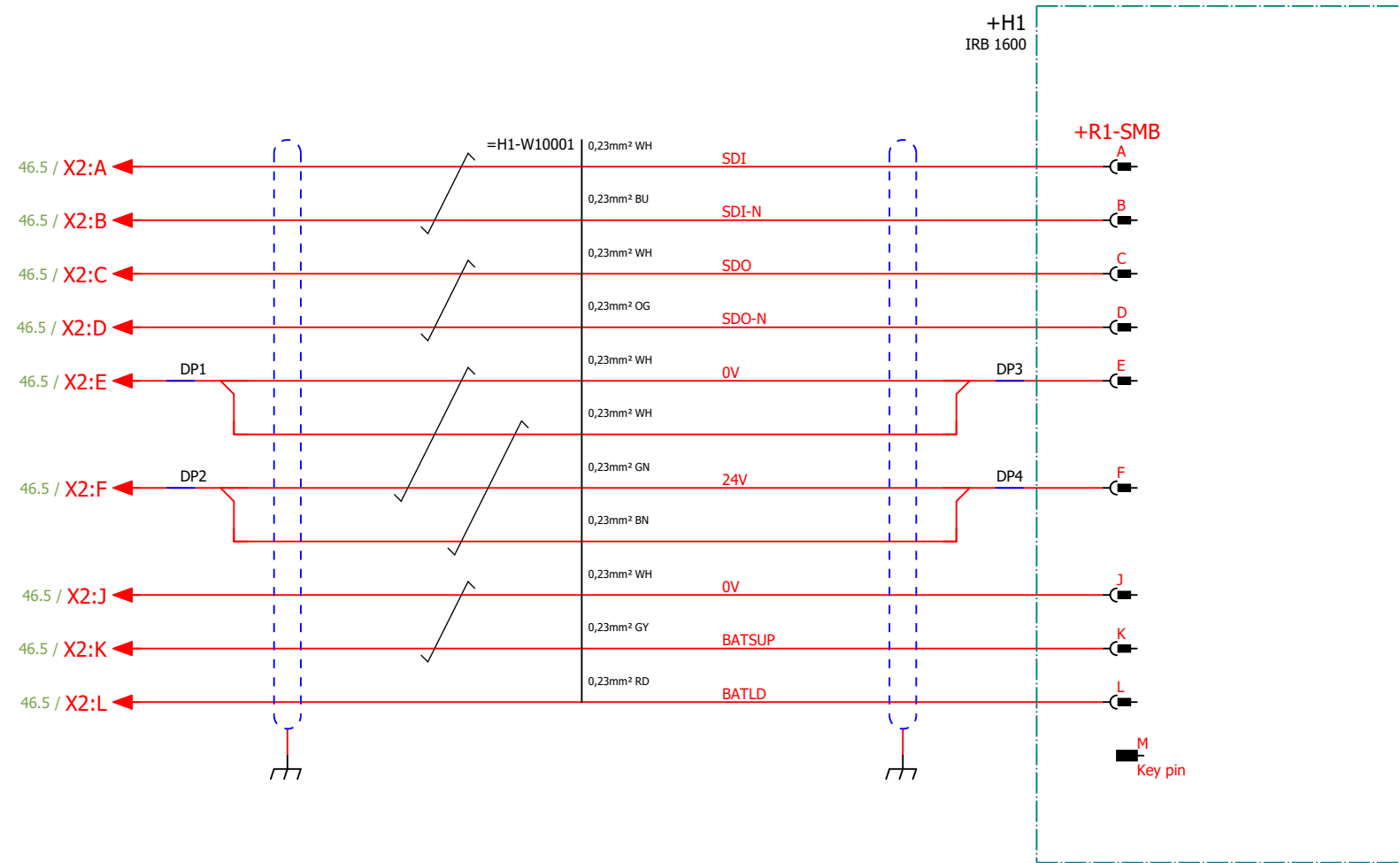
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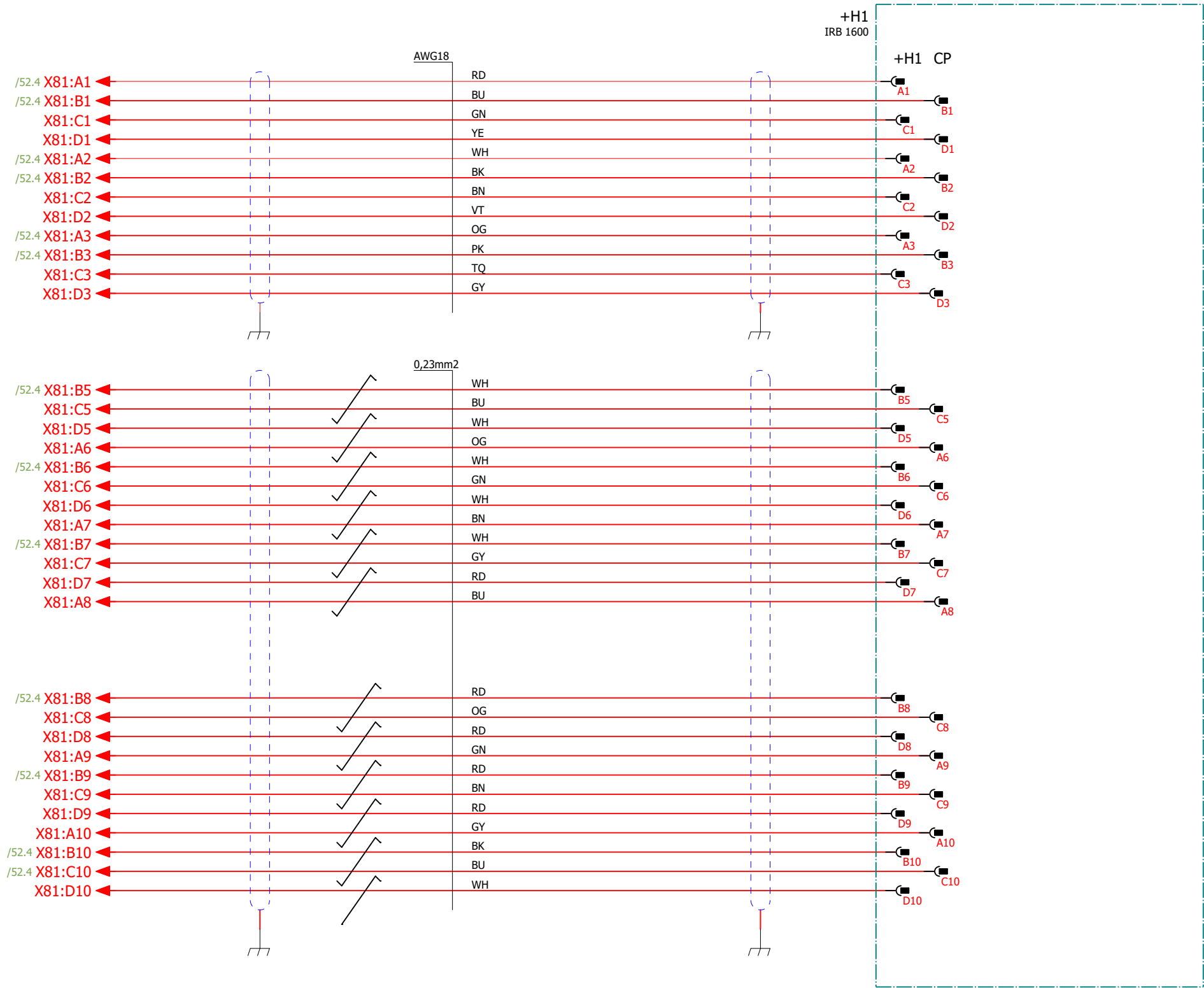
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According to Manipulator circuit diagram 3HAC021351-003

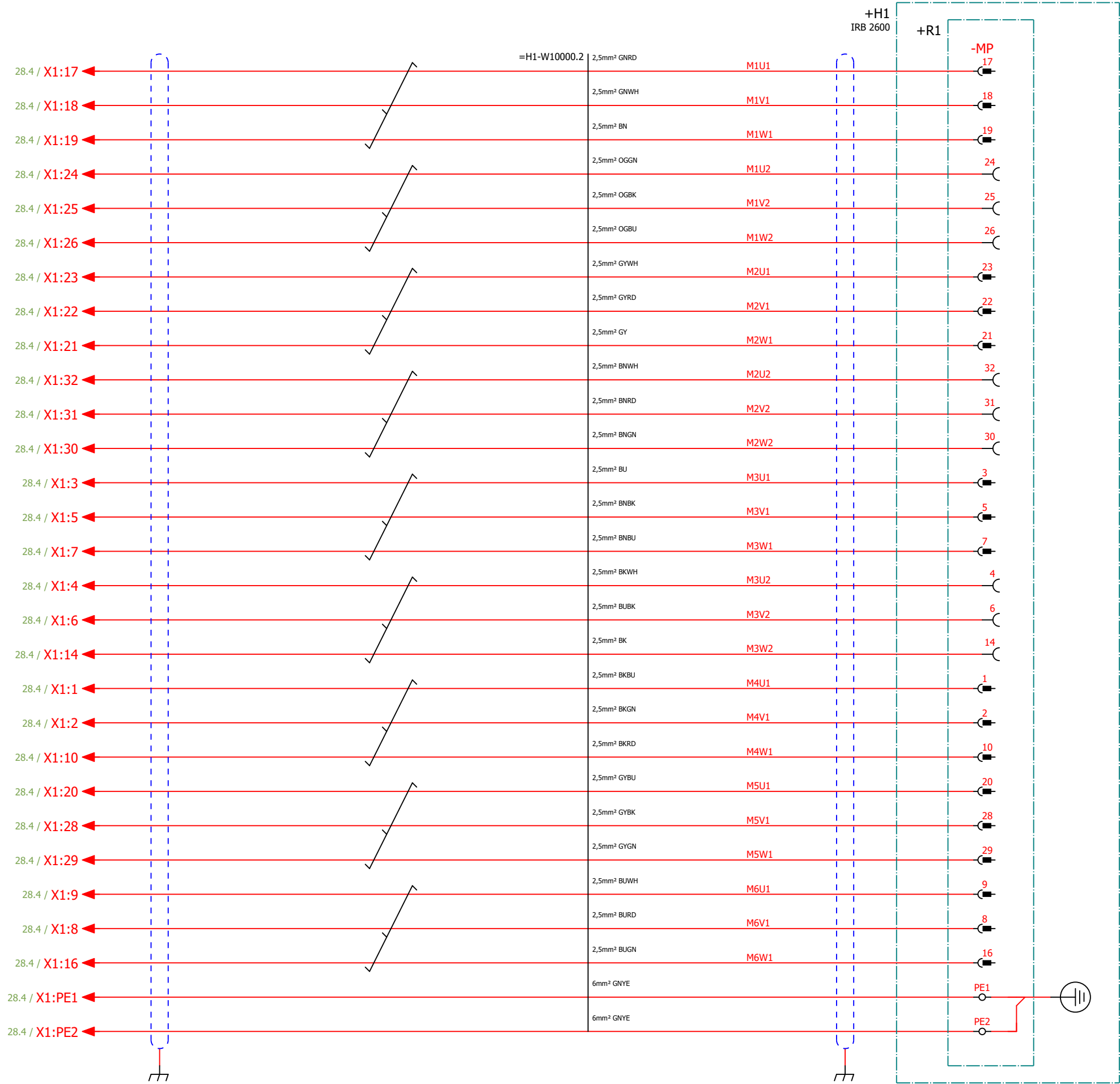
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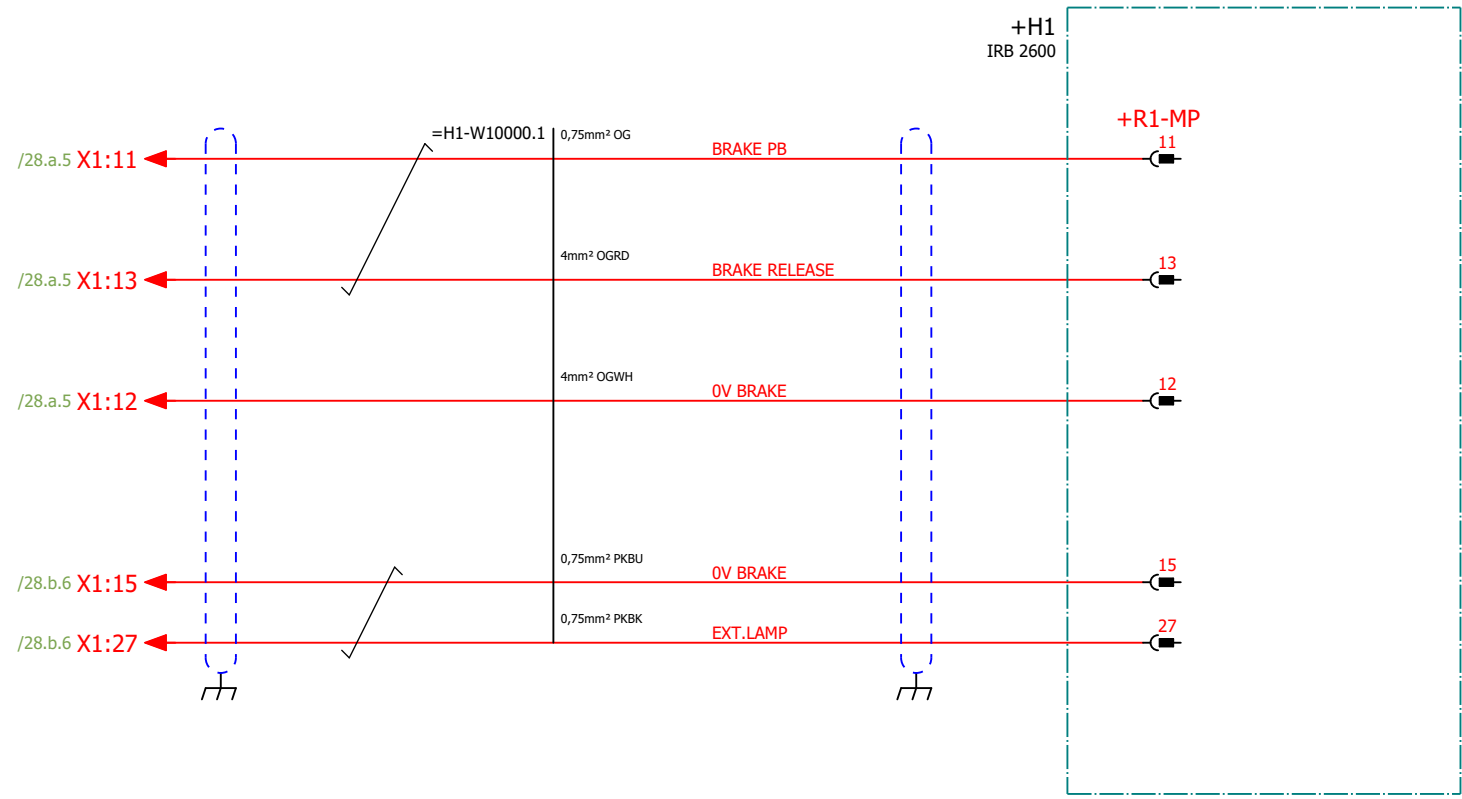
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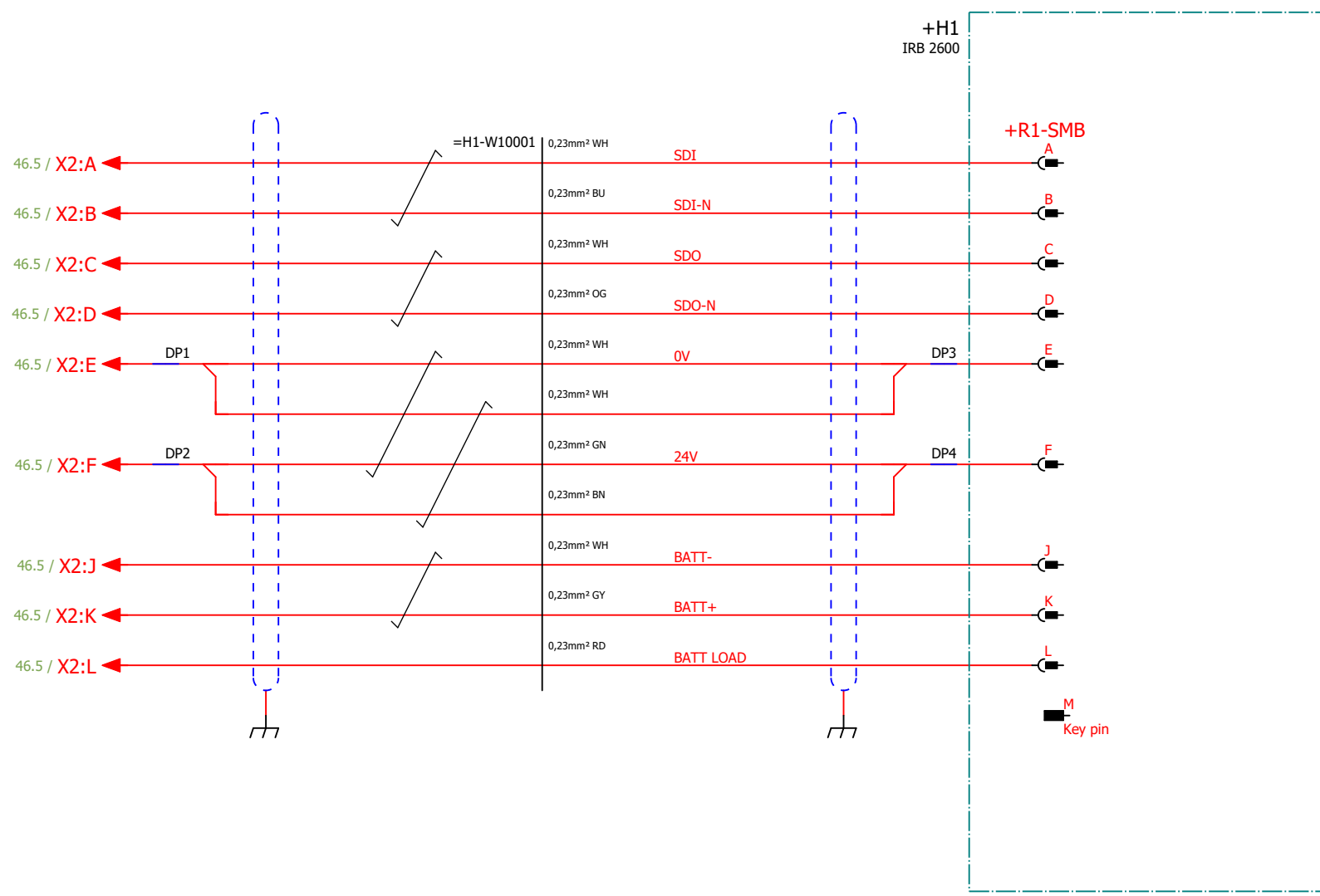
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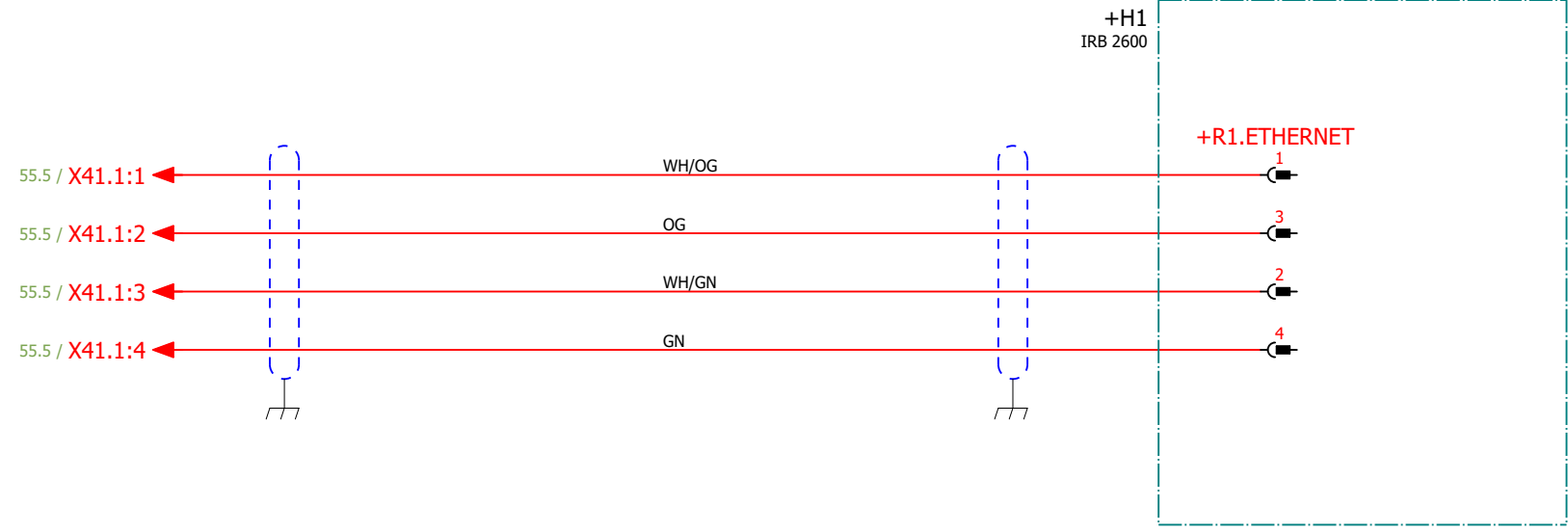
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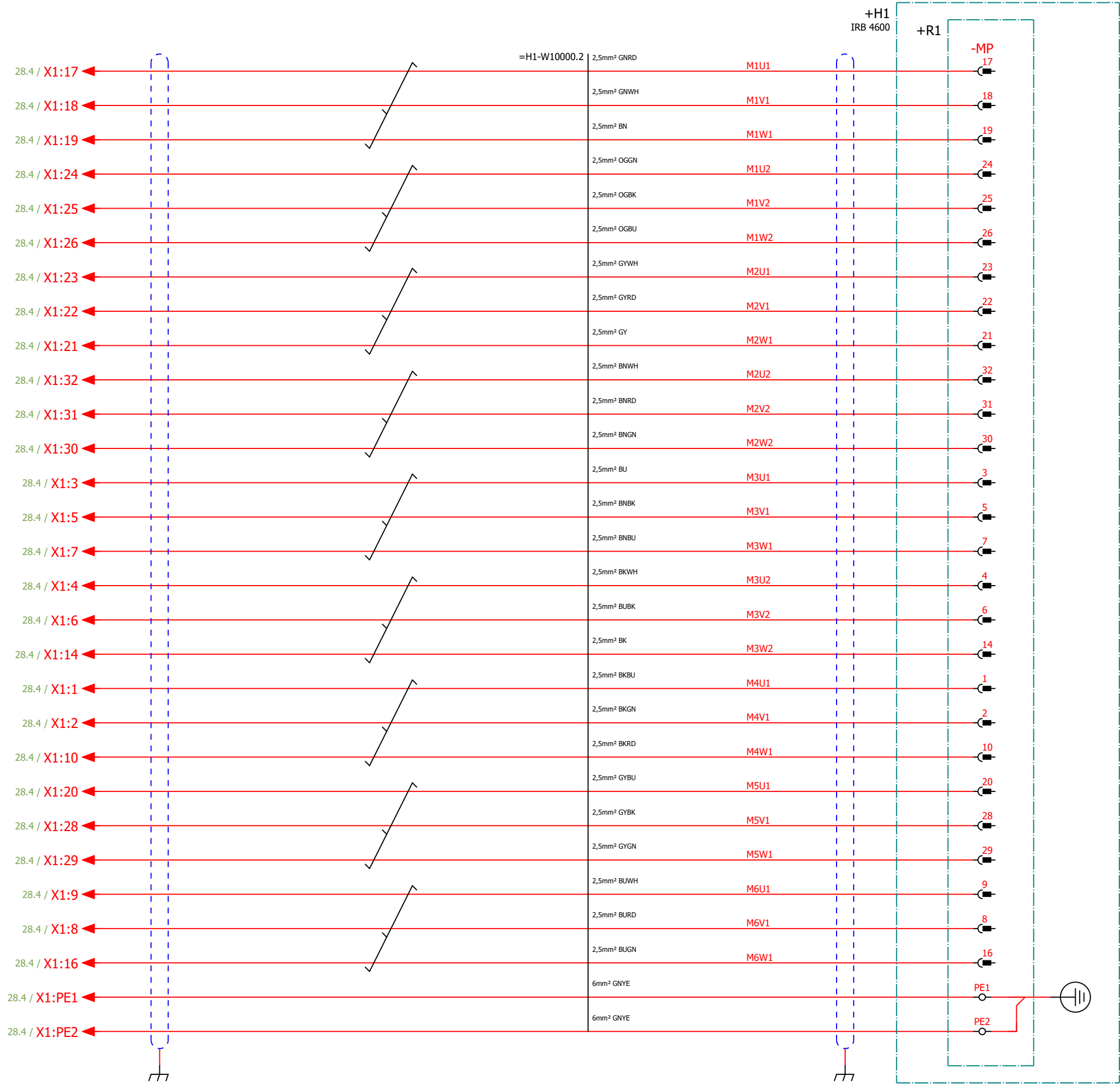
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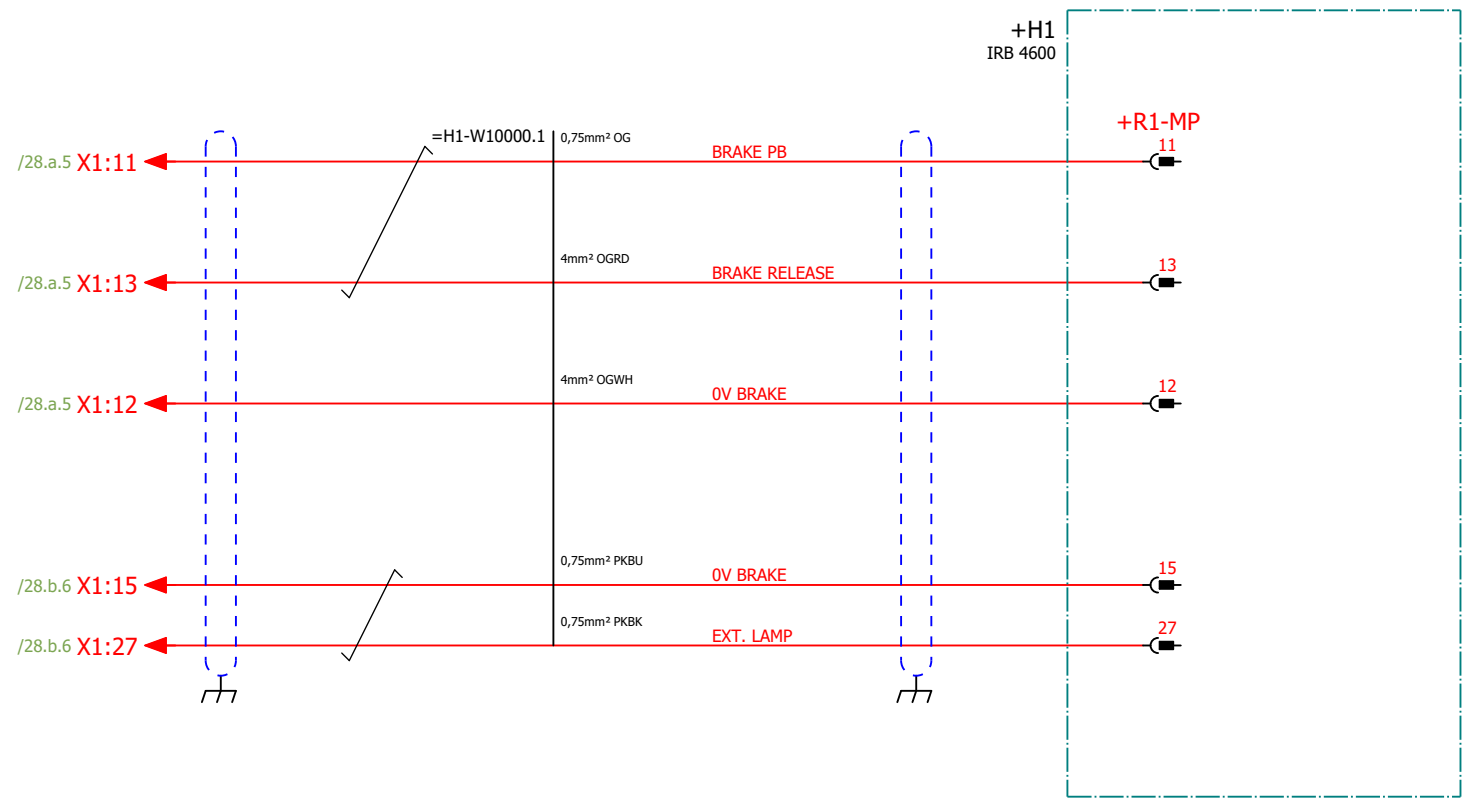
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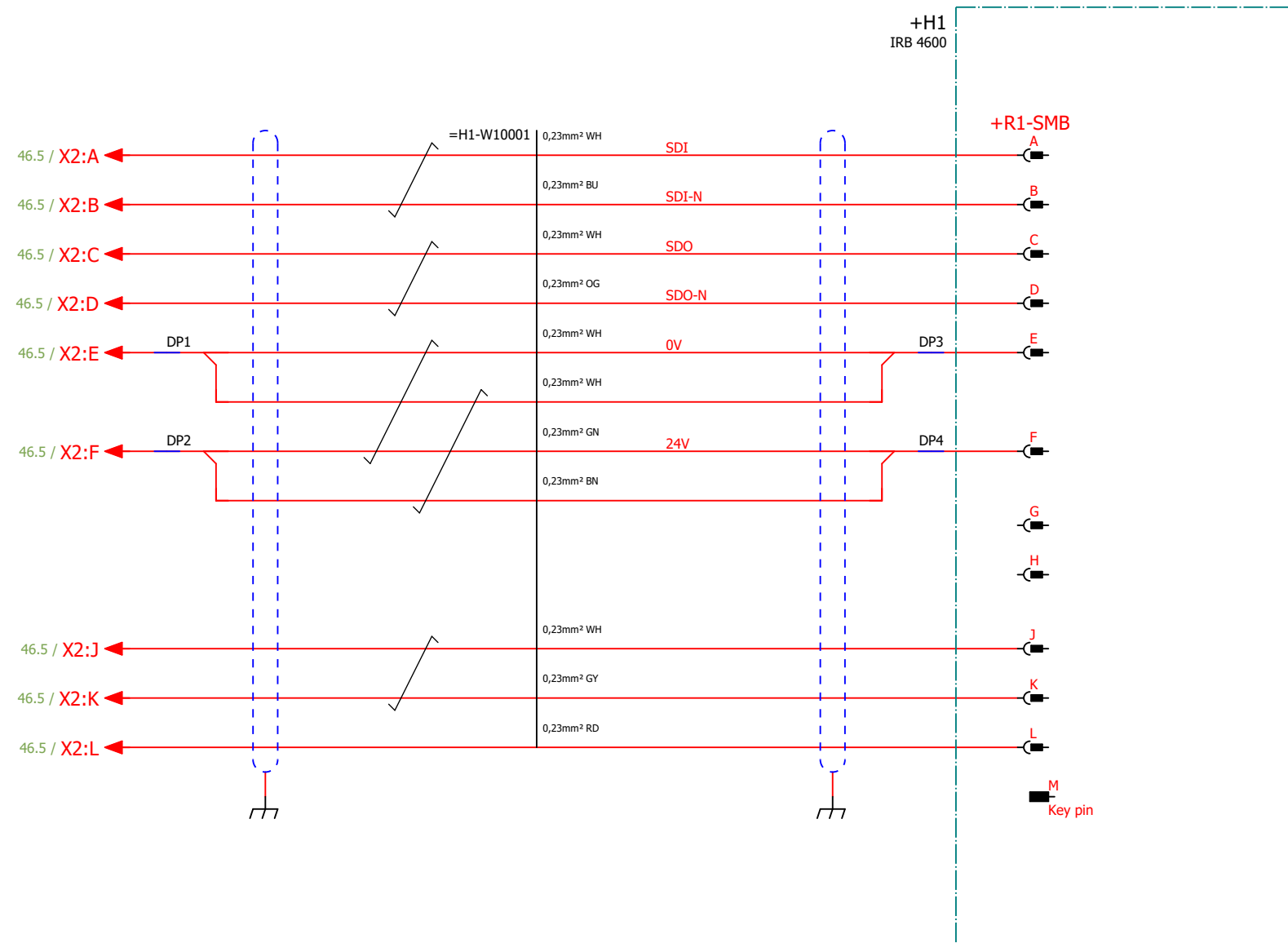
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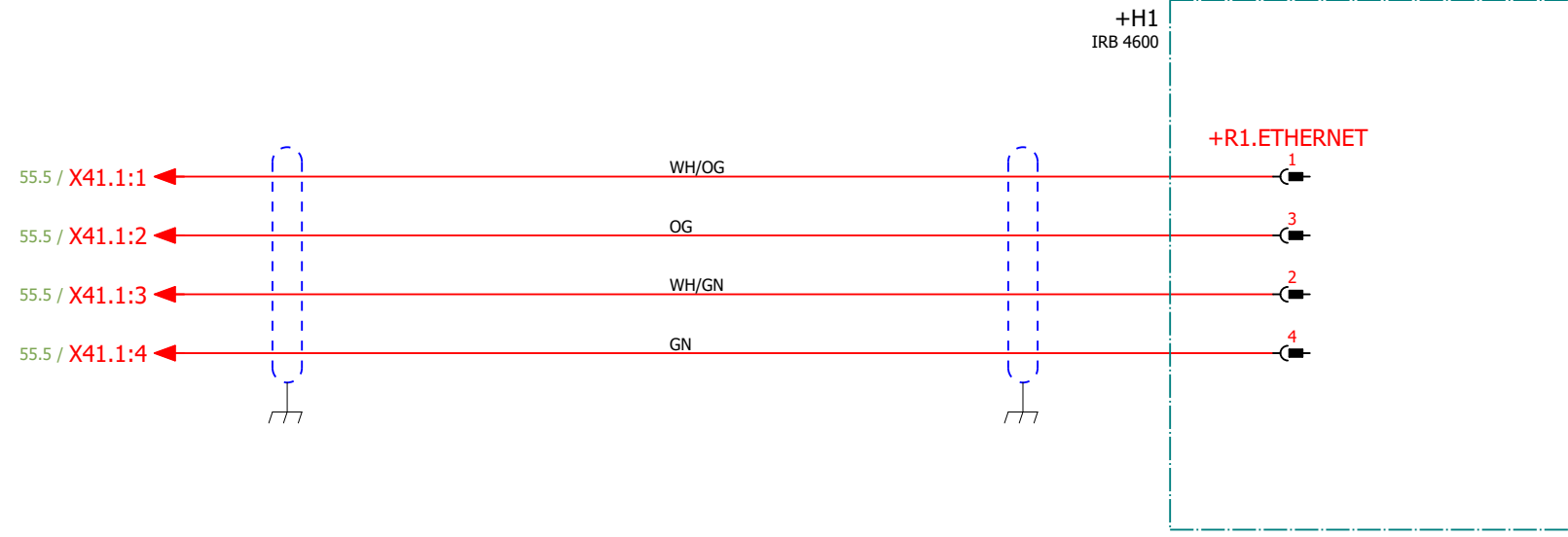
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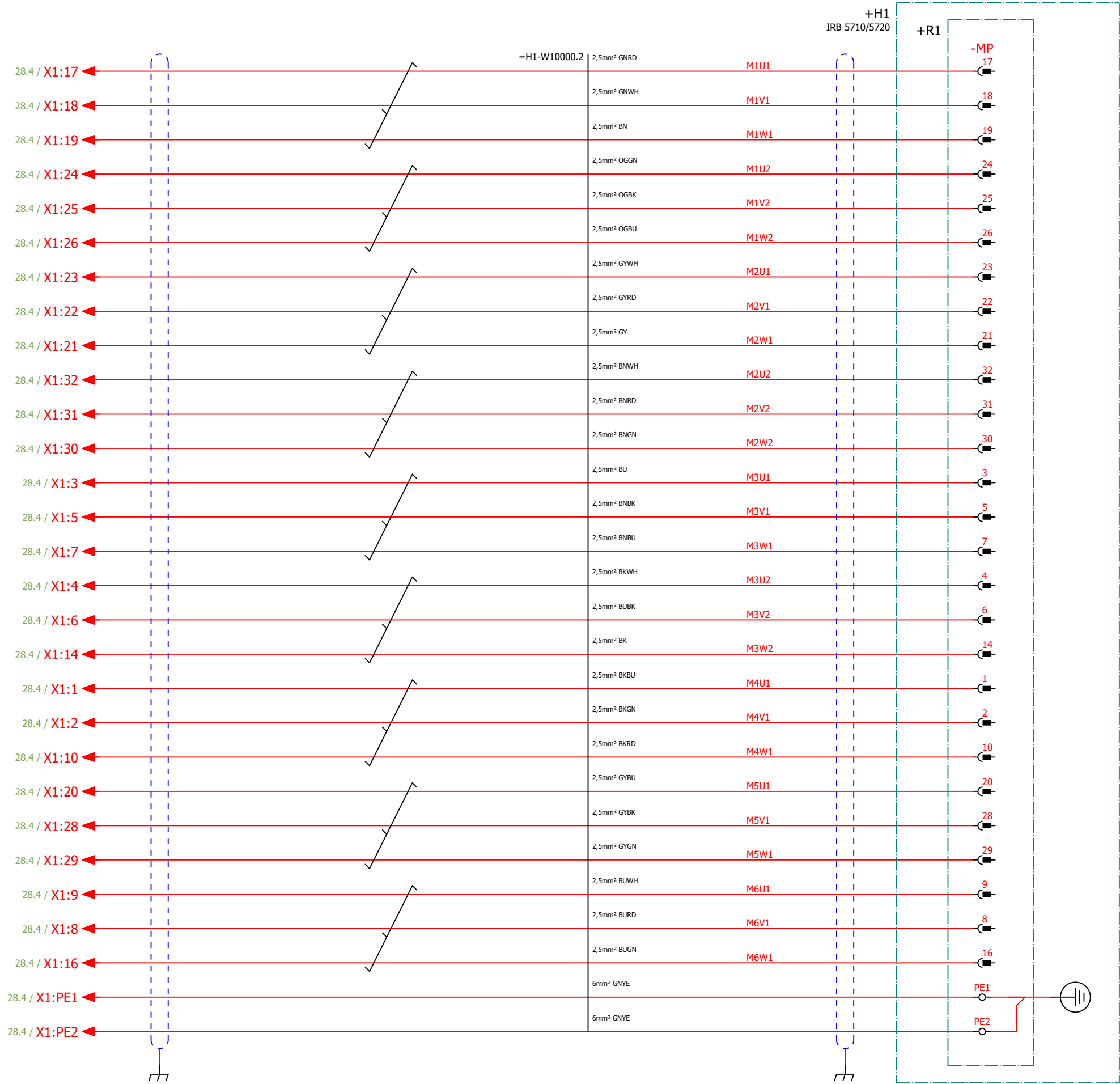
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Servo drive system IRB 5710/5720

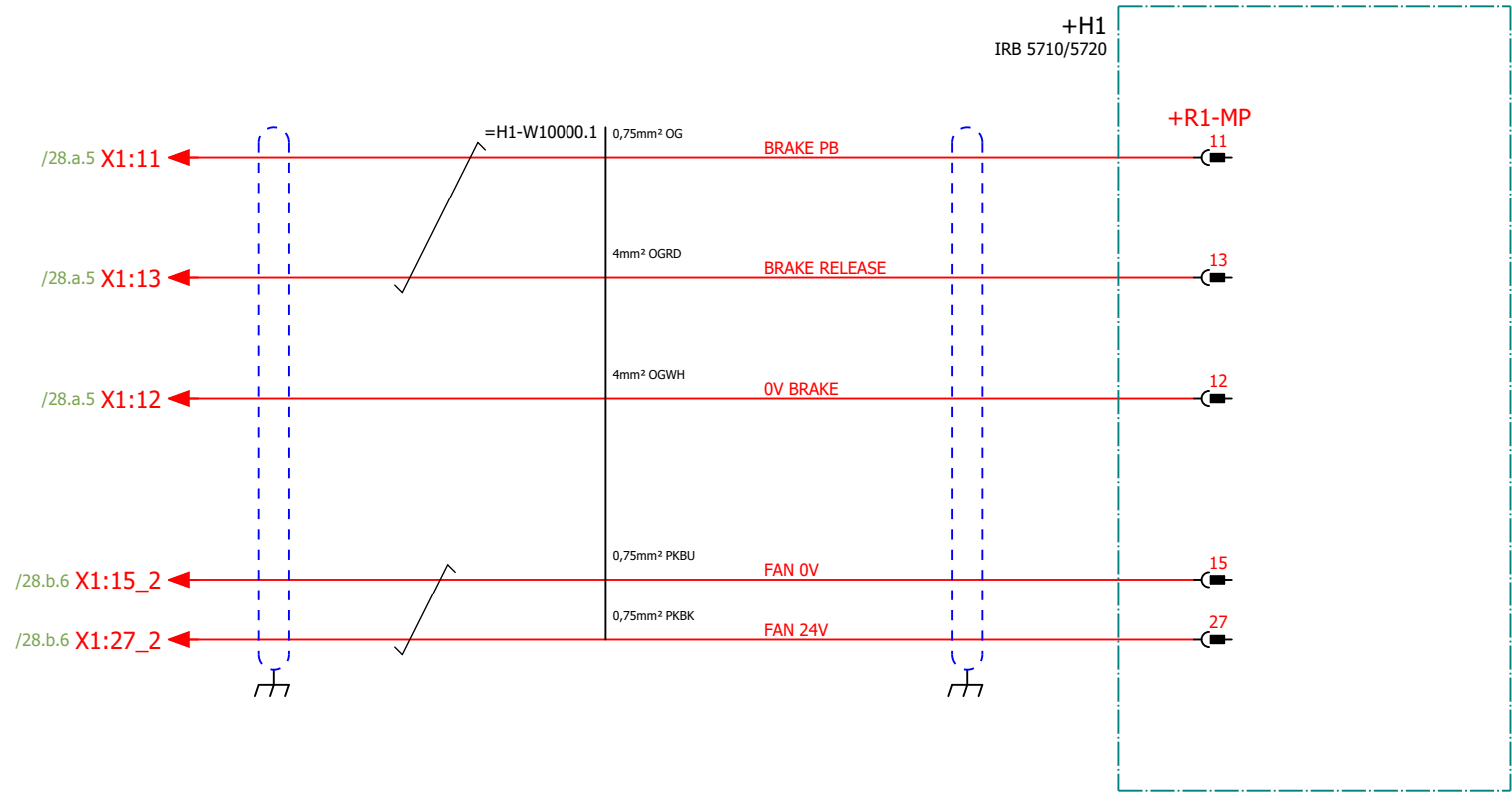
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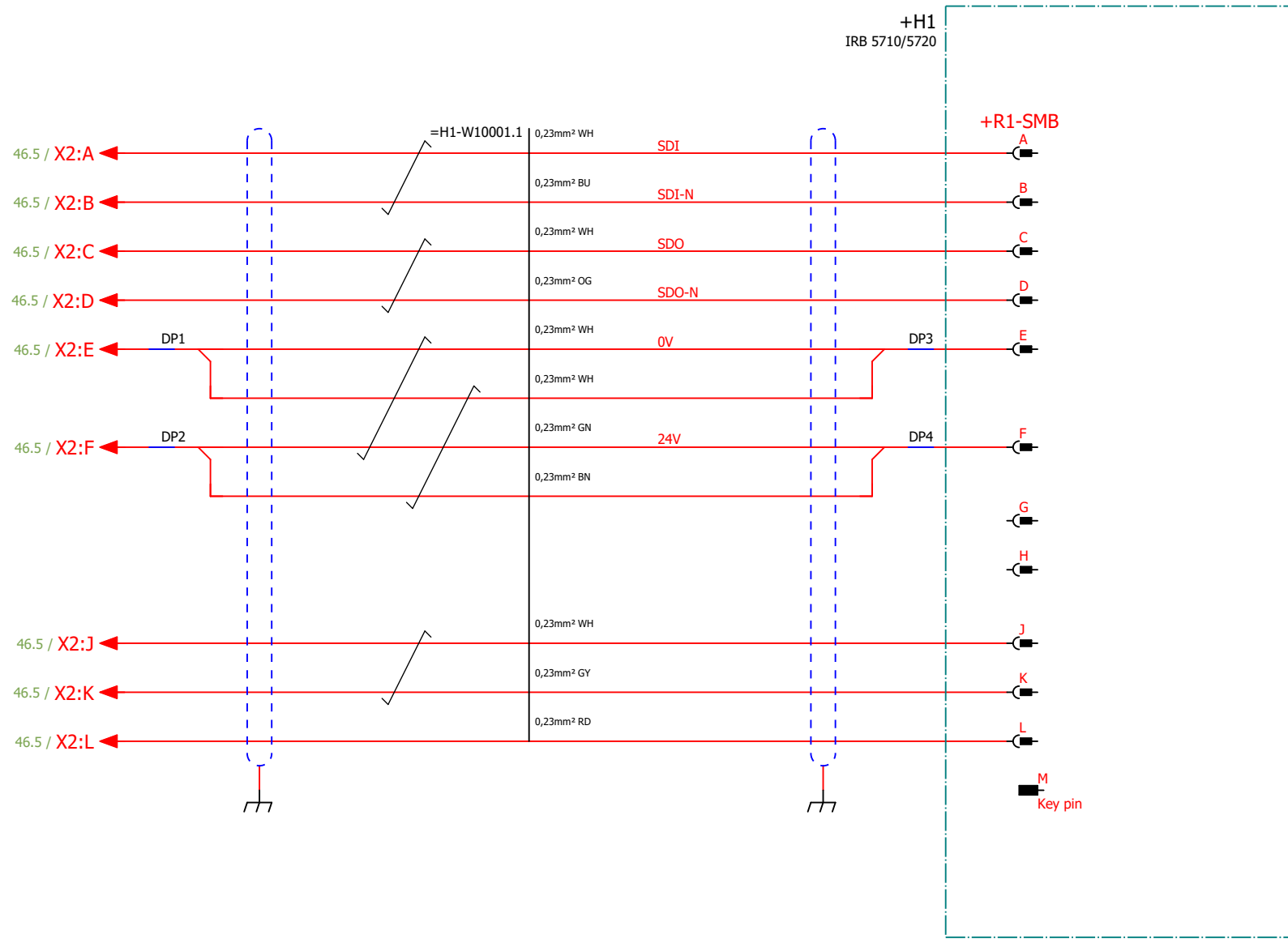




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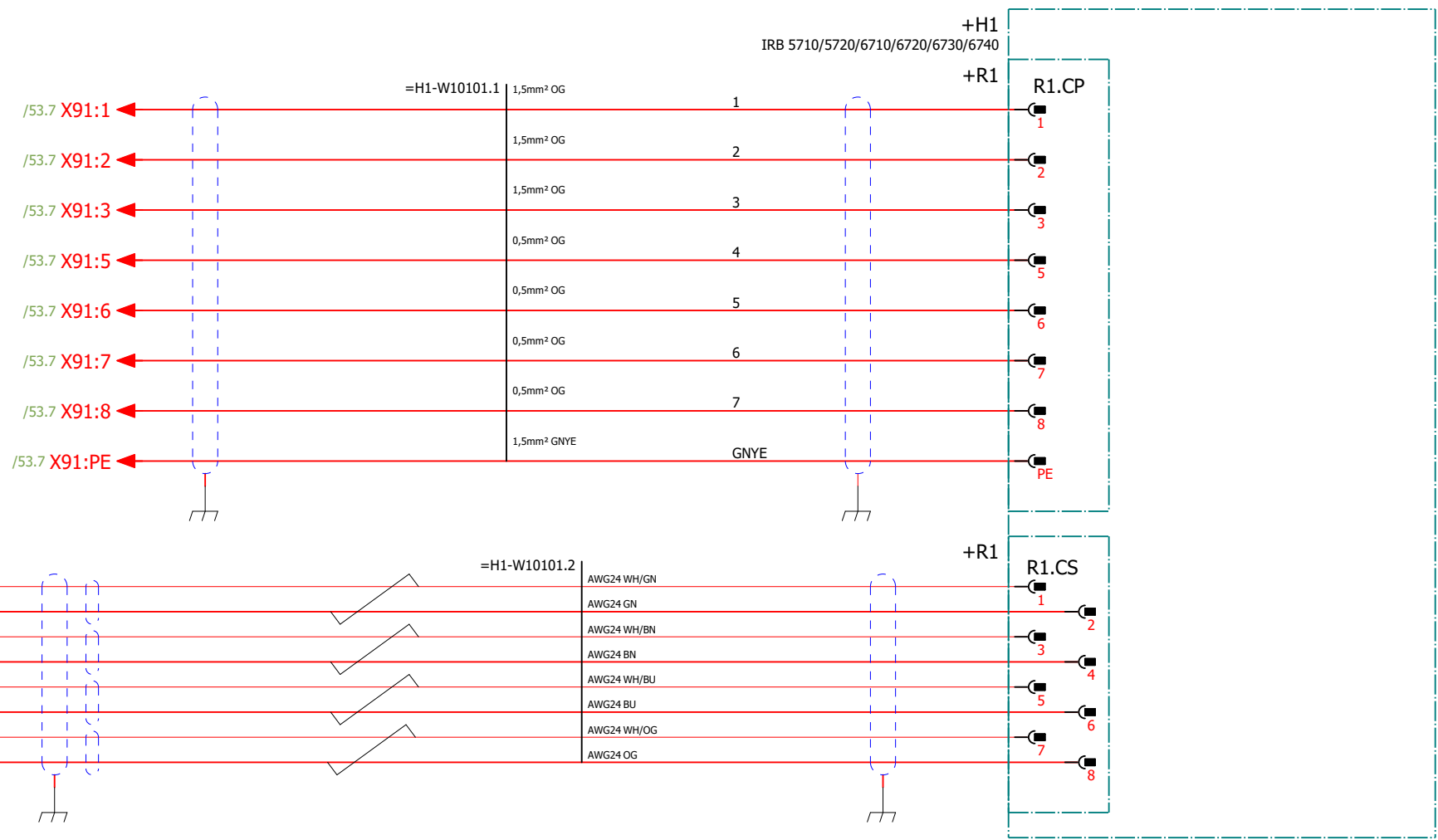
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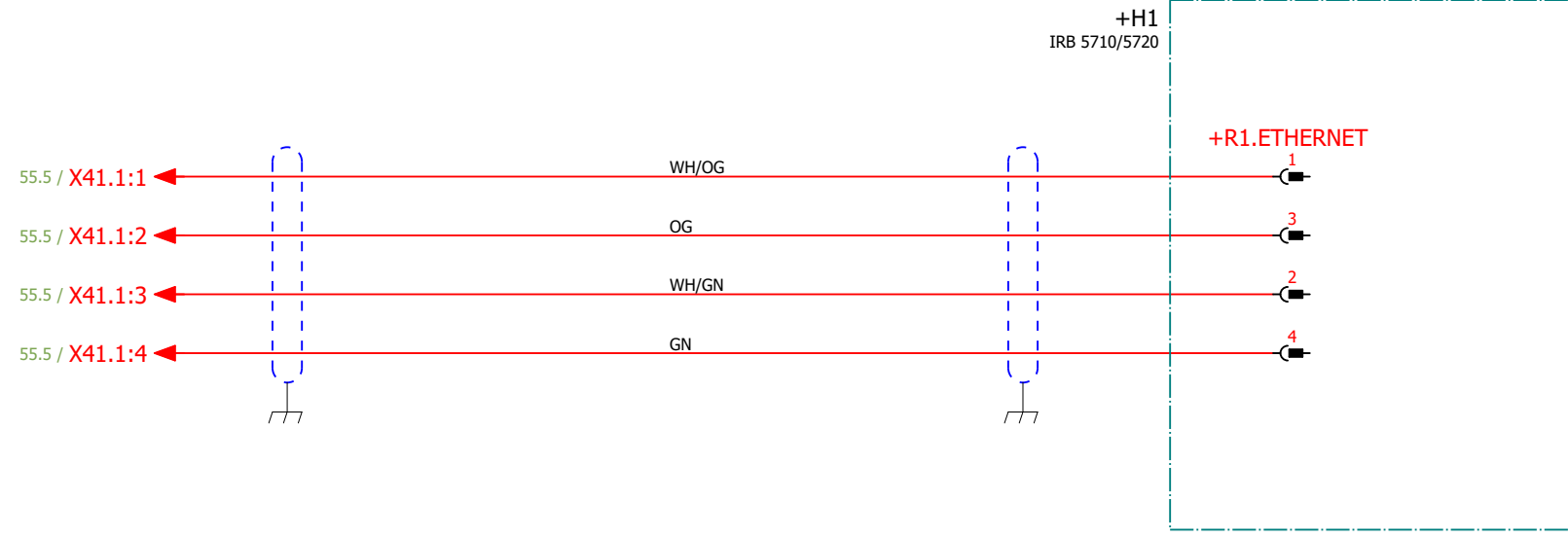
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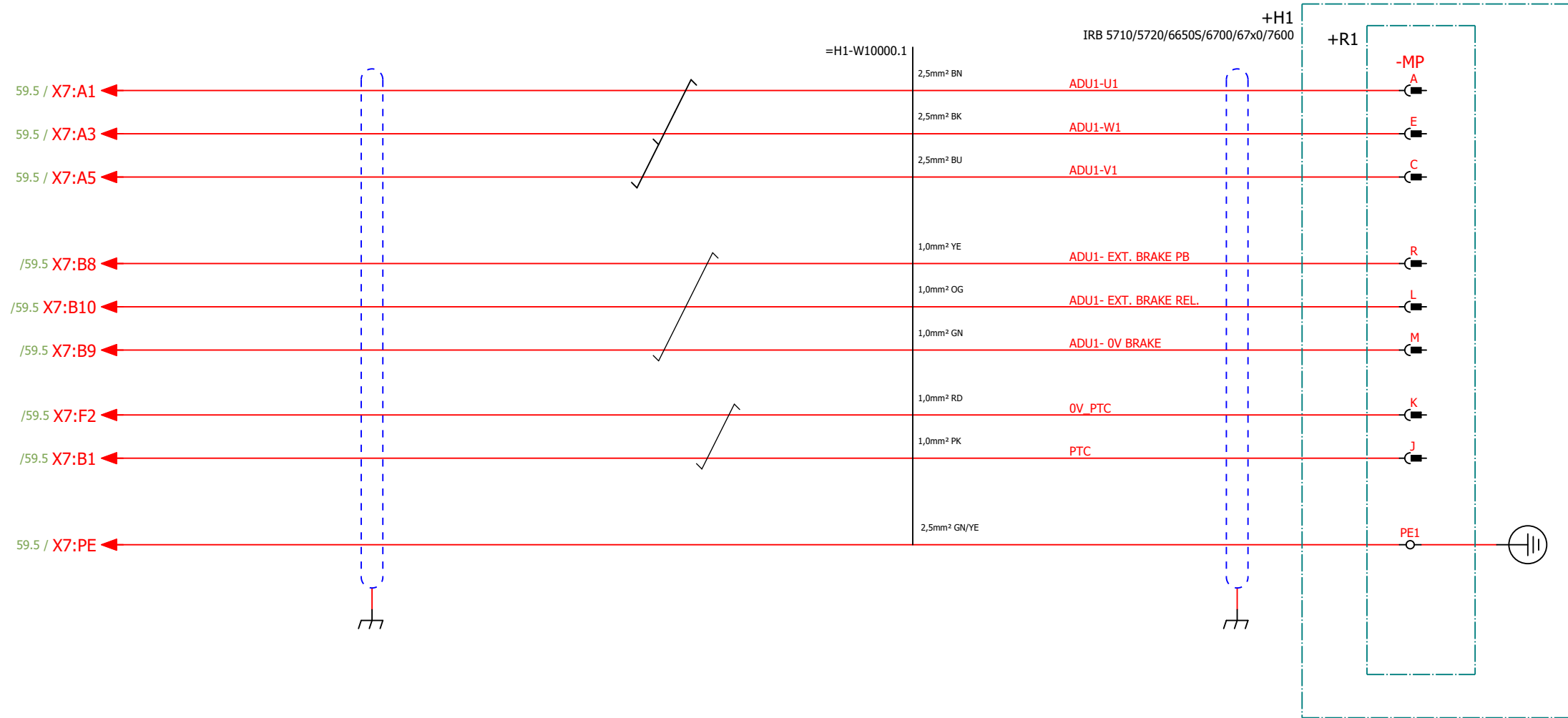
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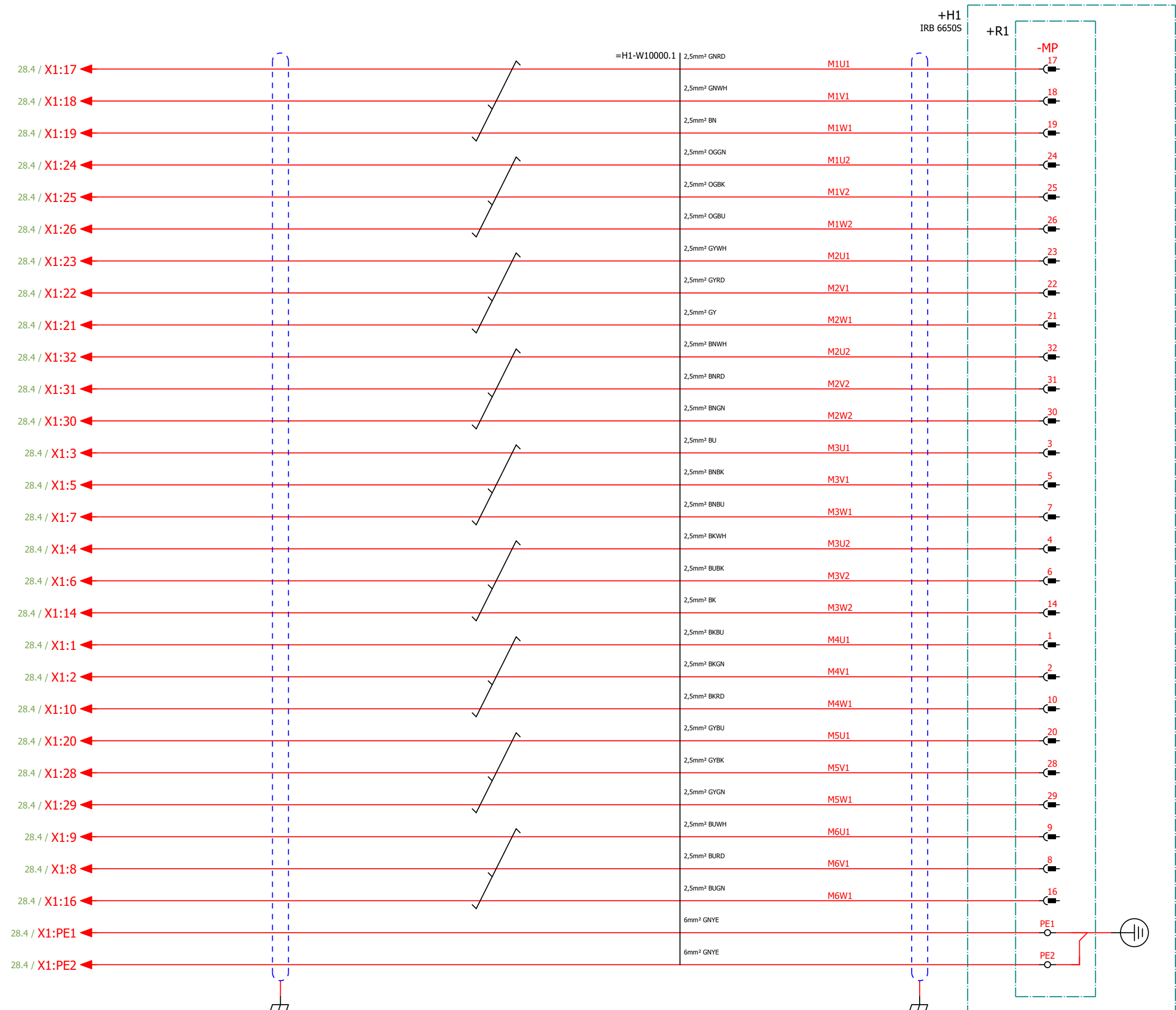
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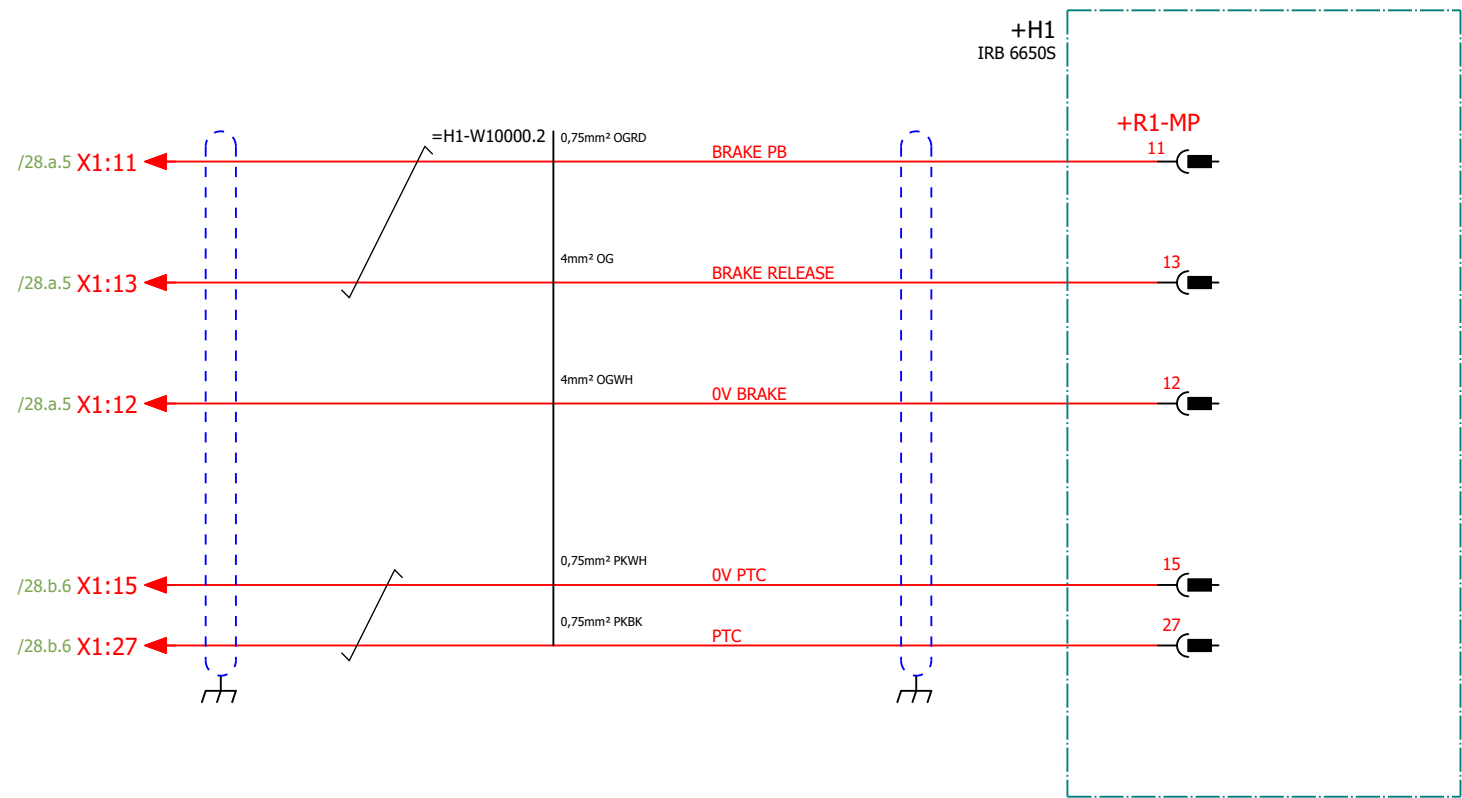
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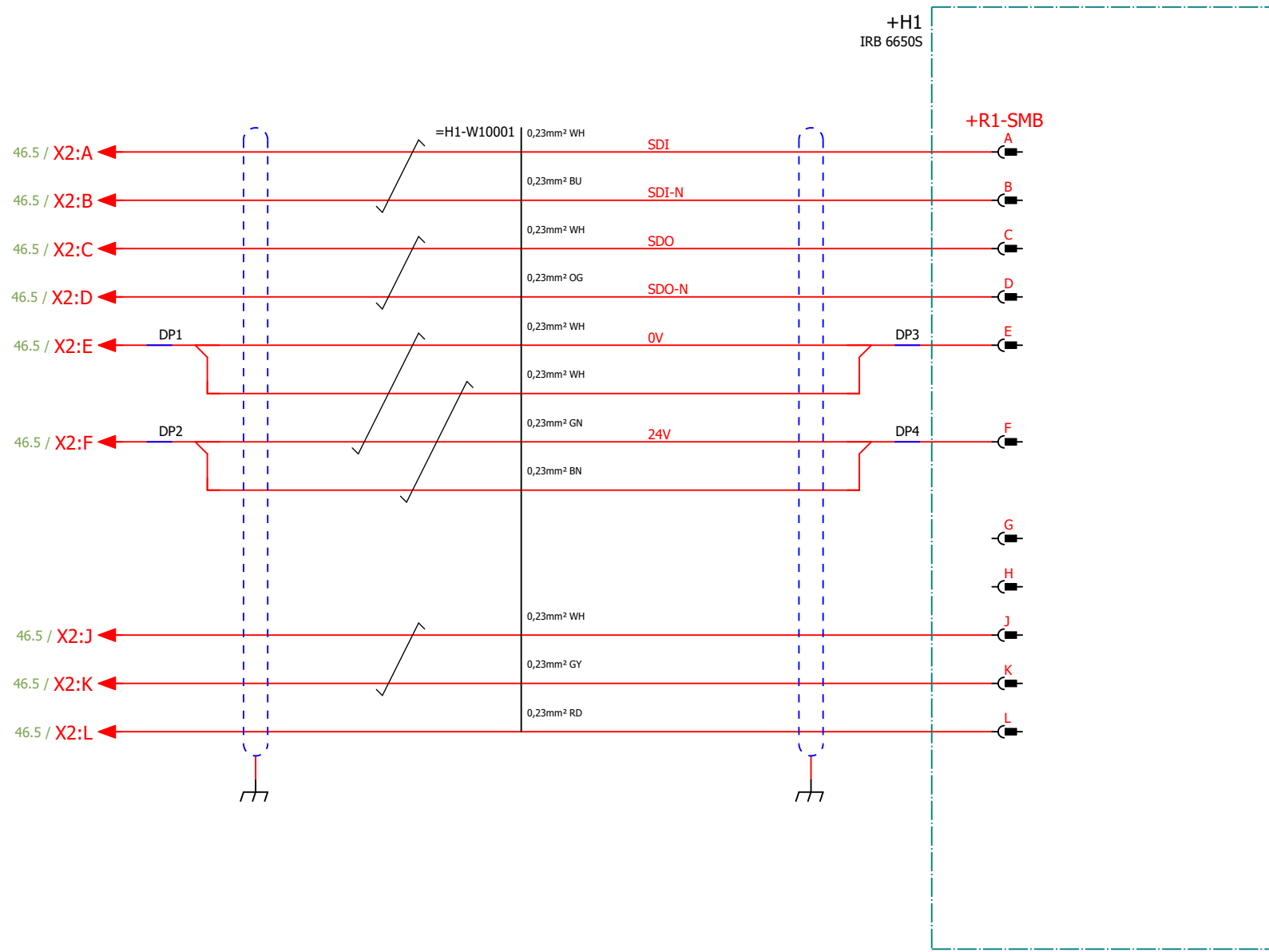
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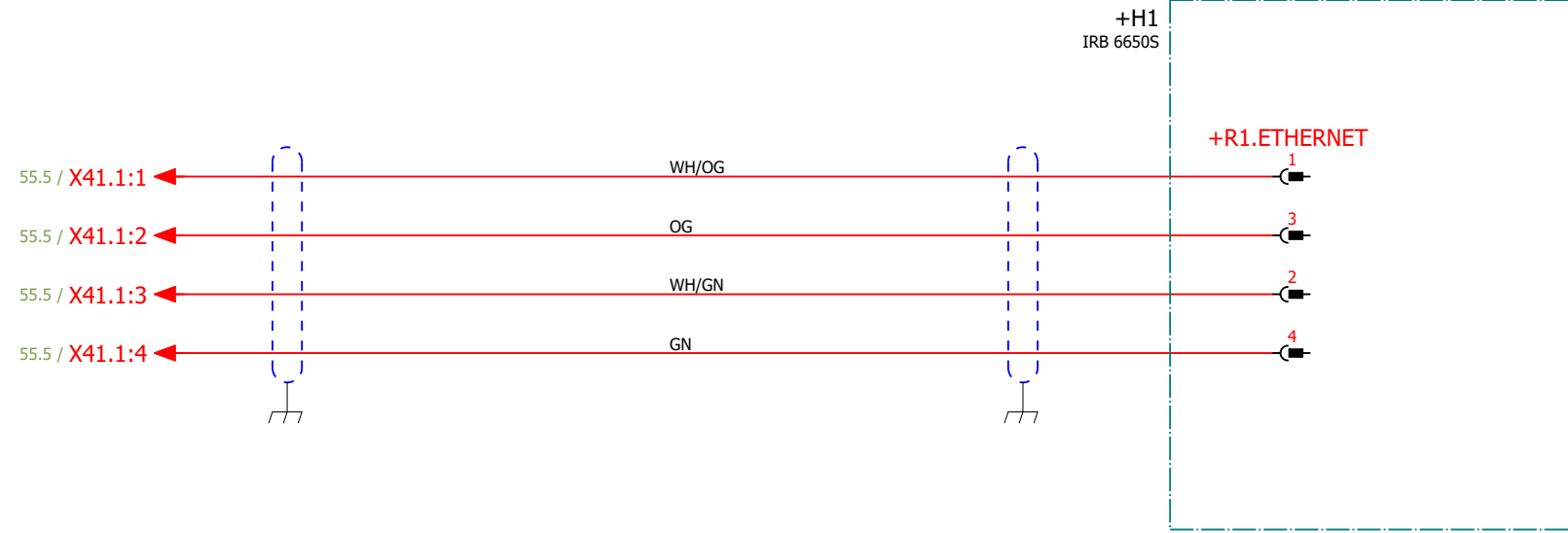
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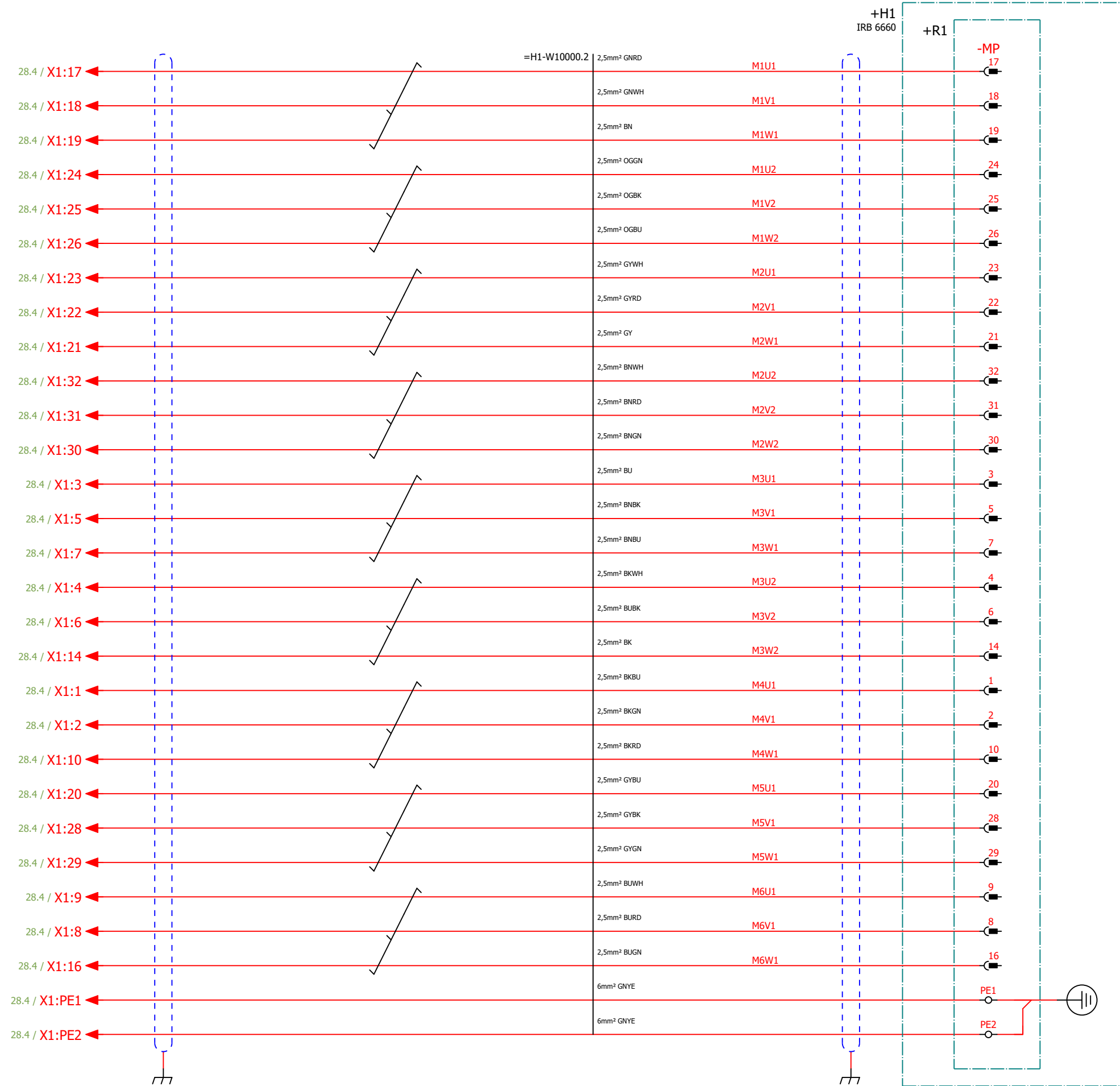
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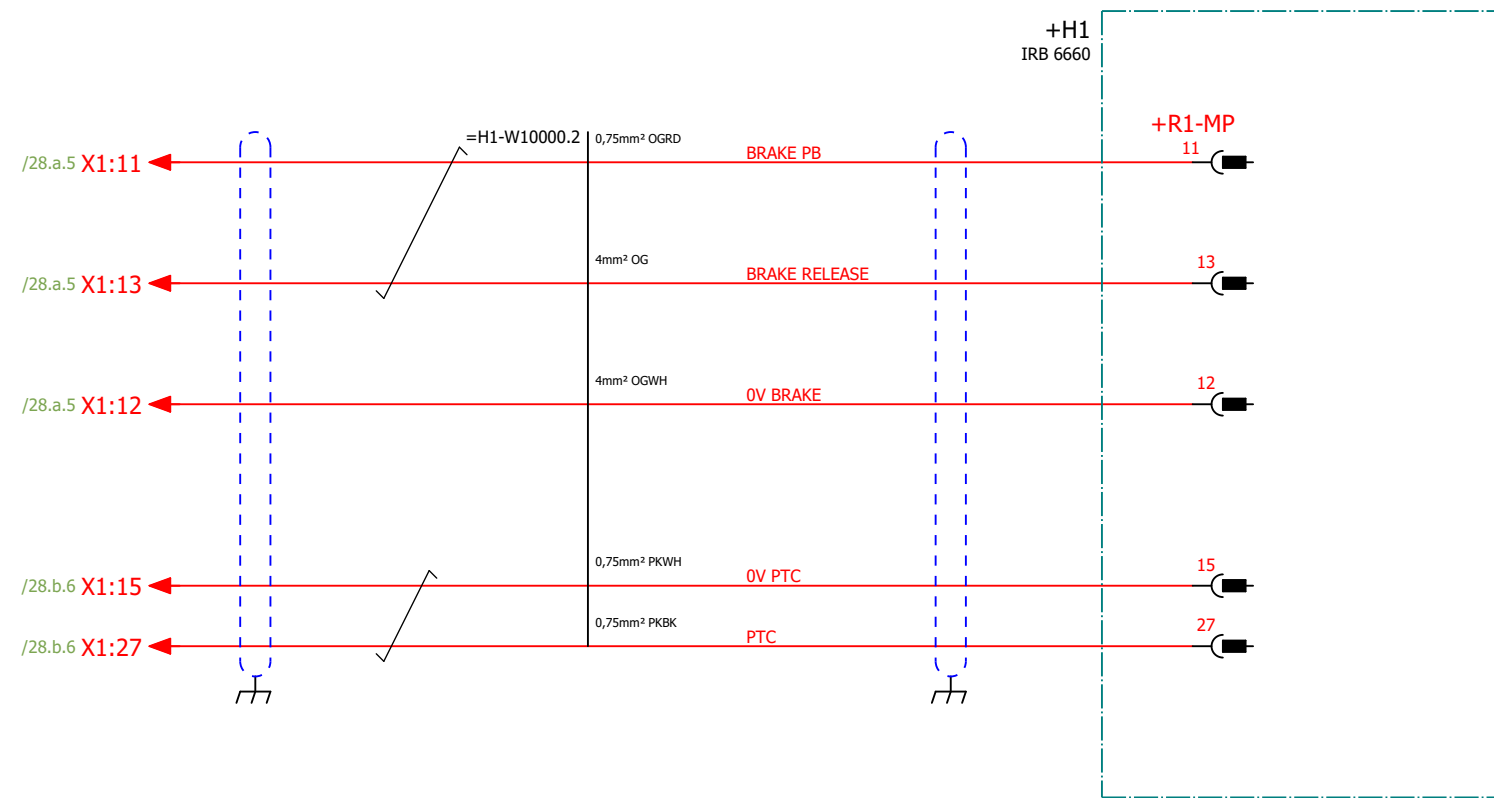


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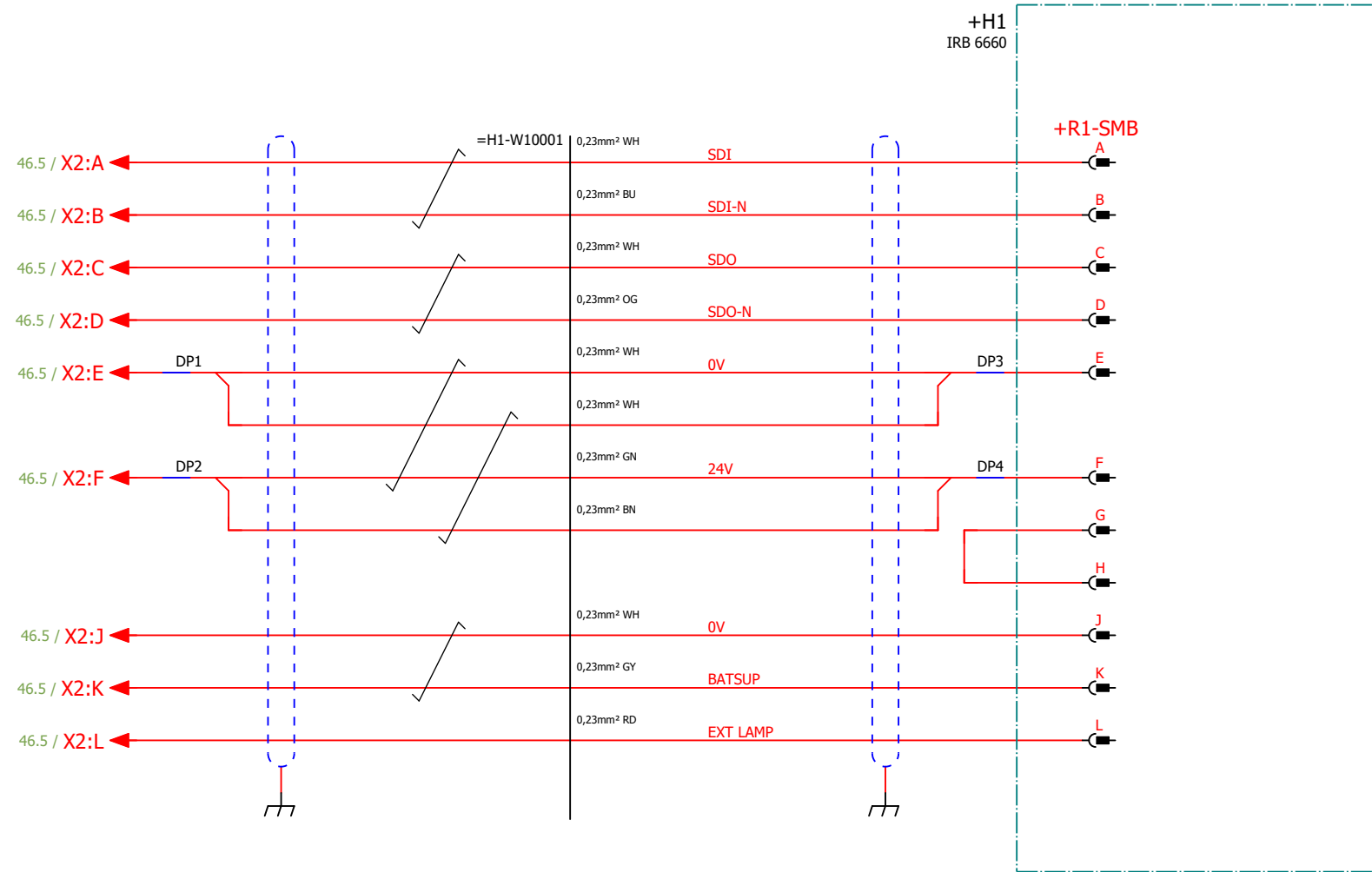
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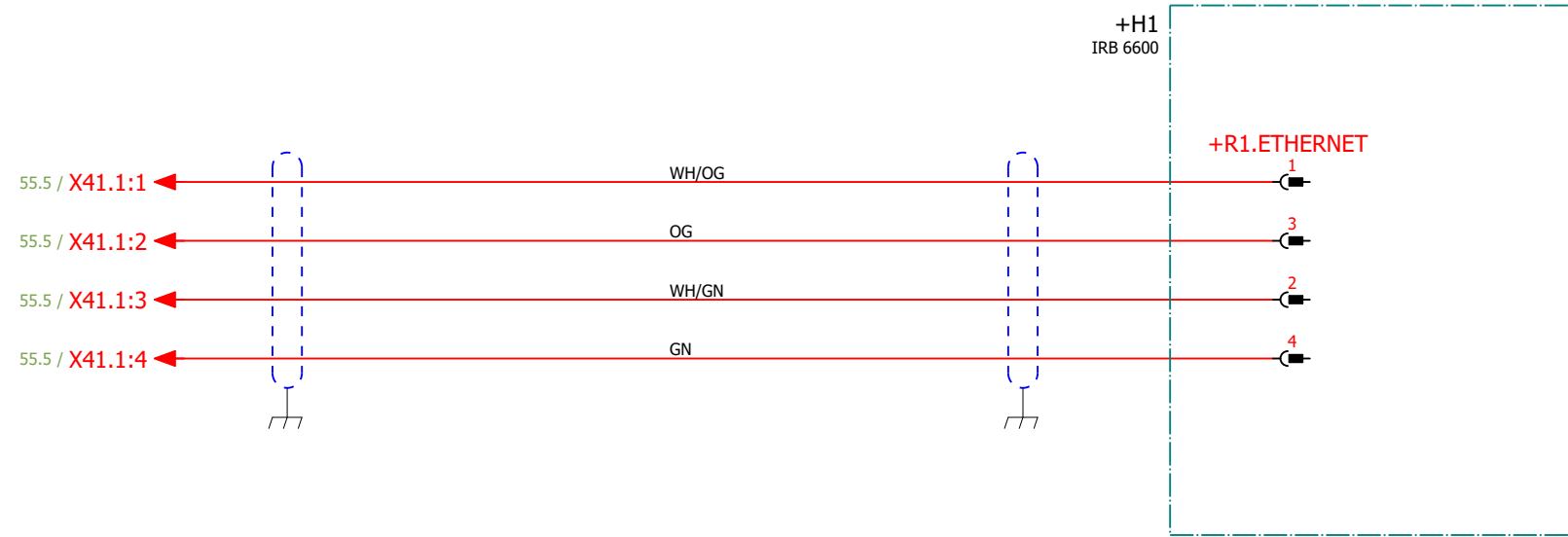
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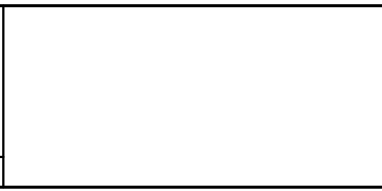
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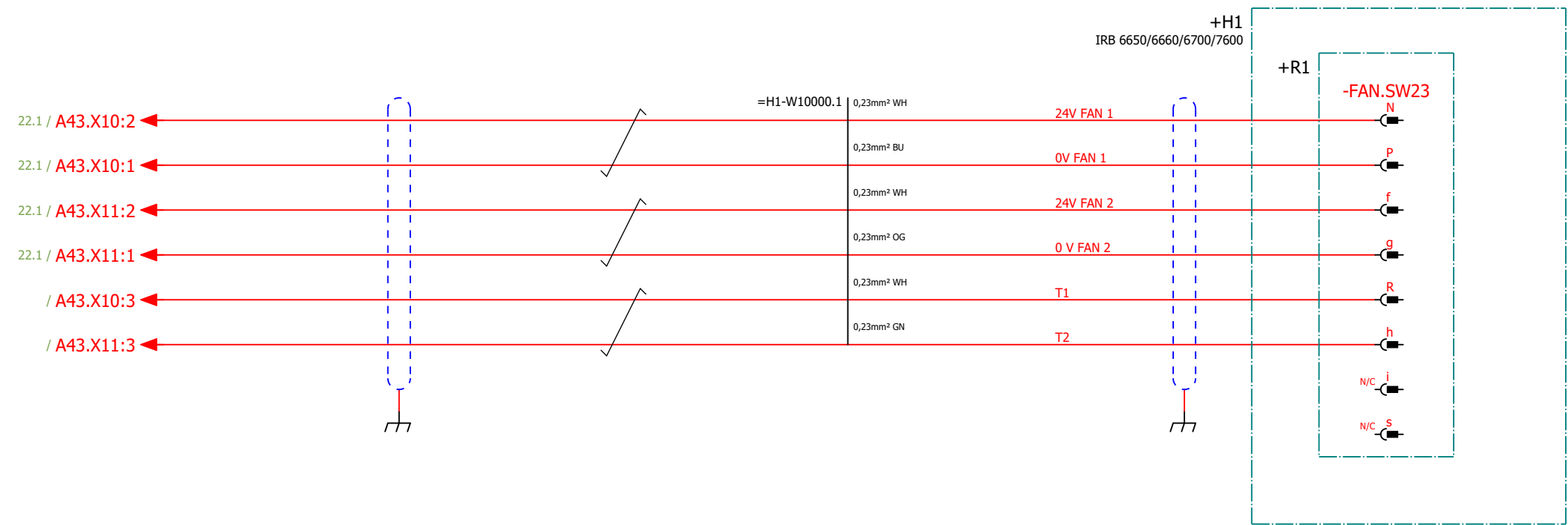
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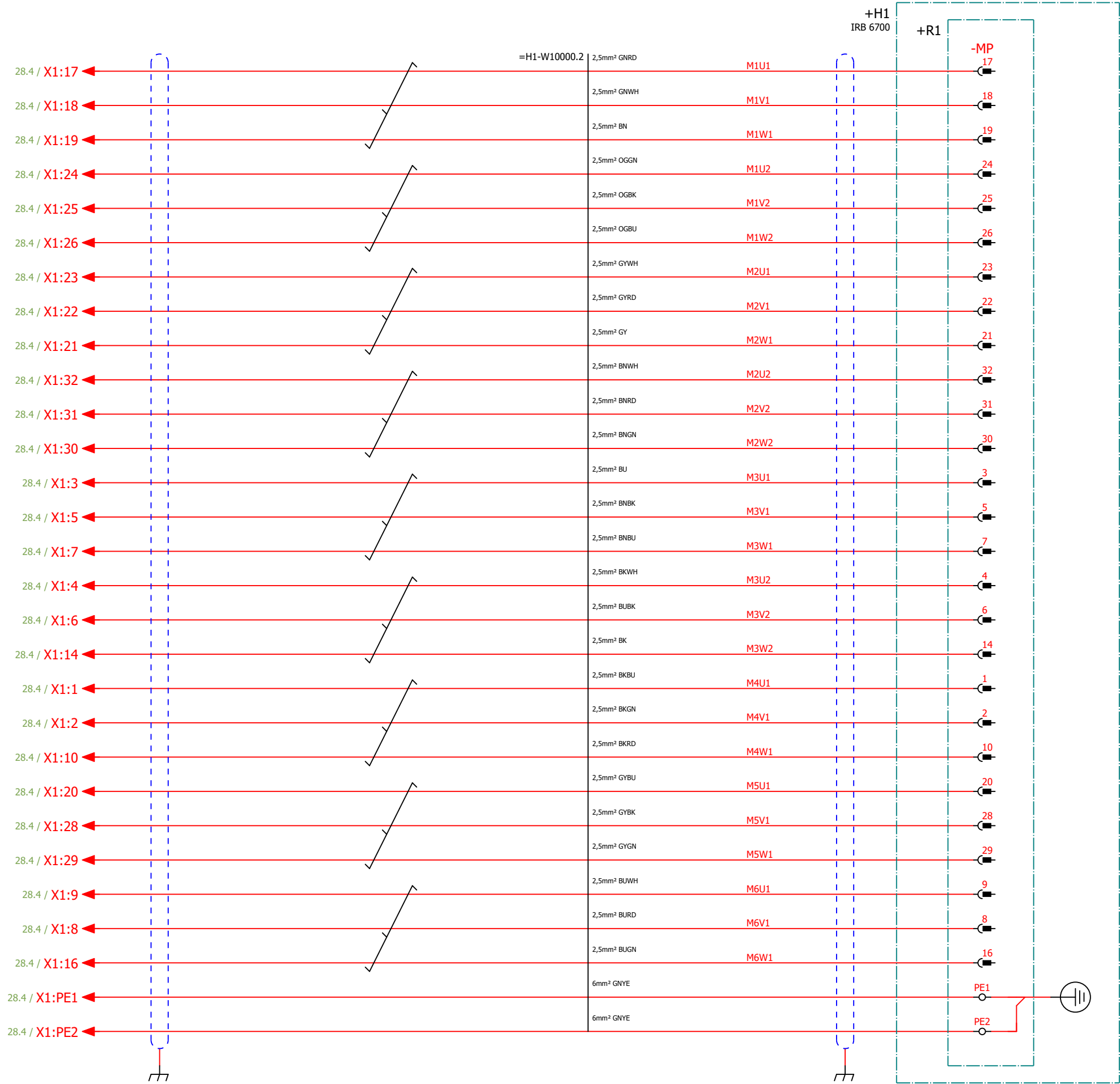
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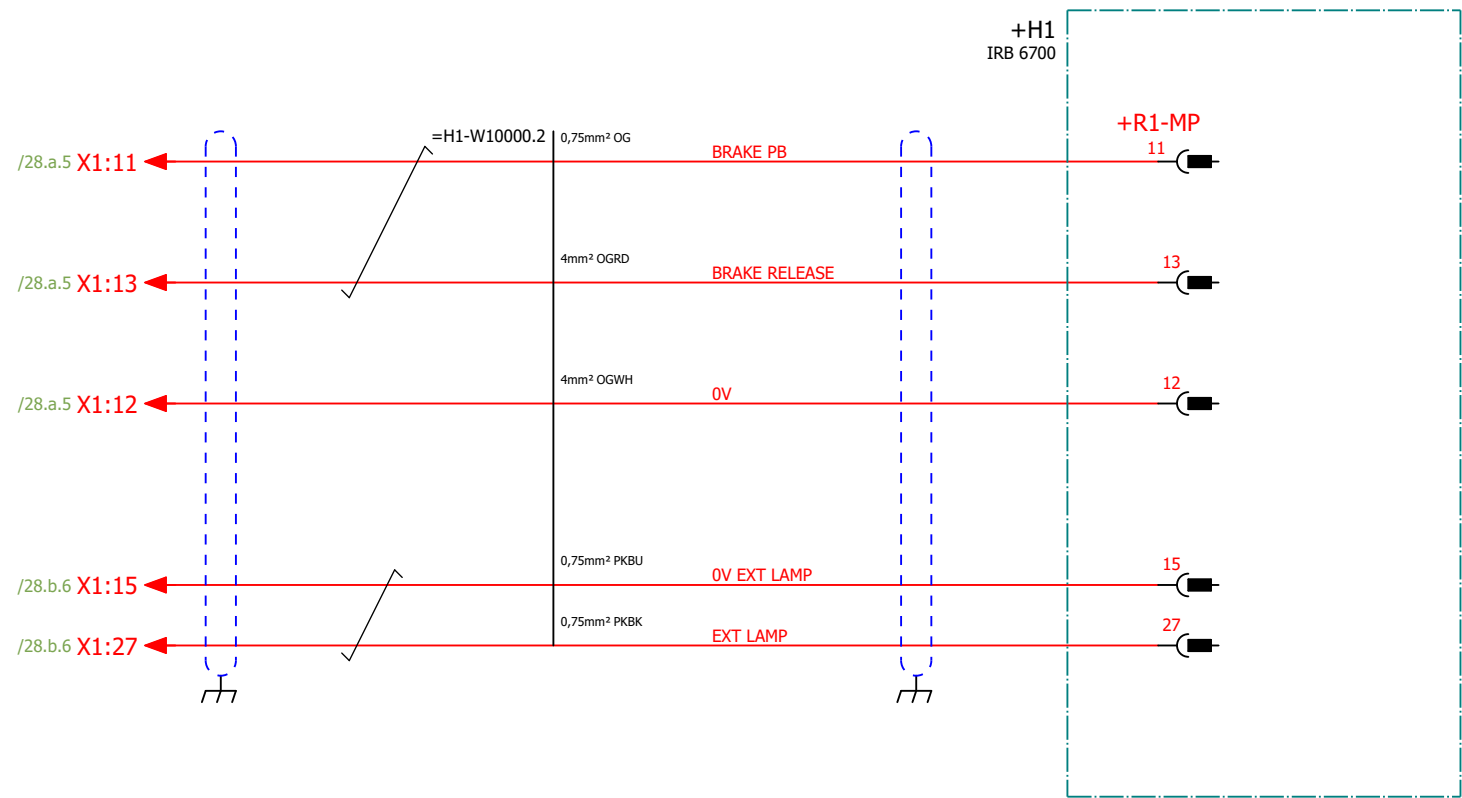
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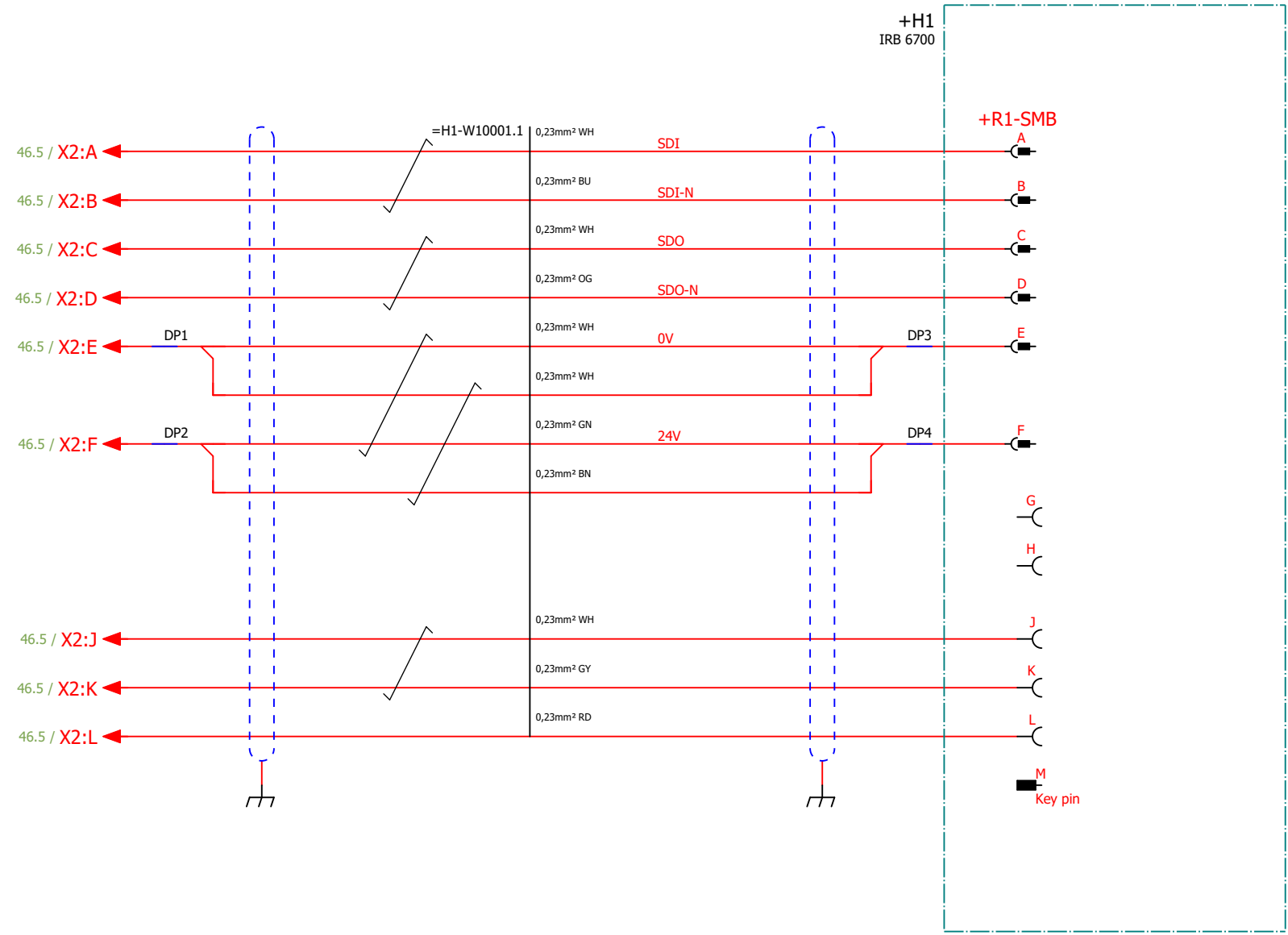


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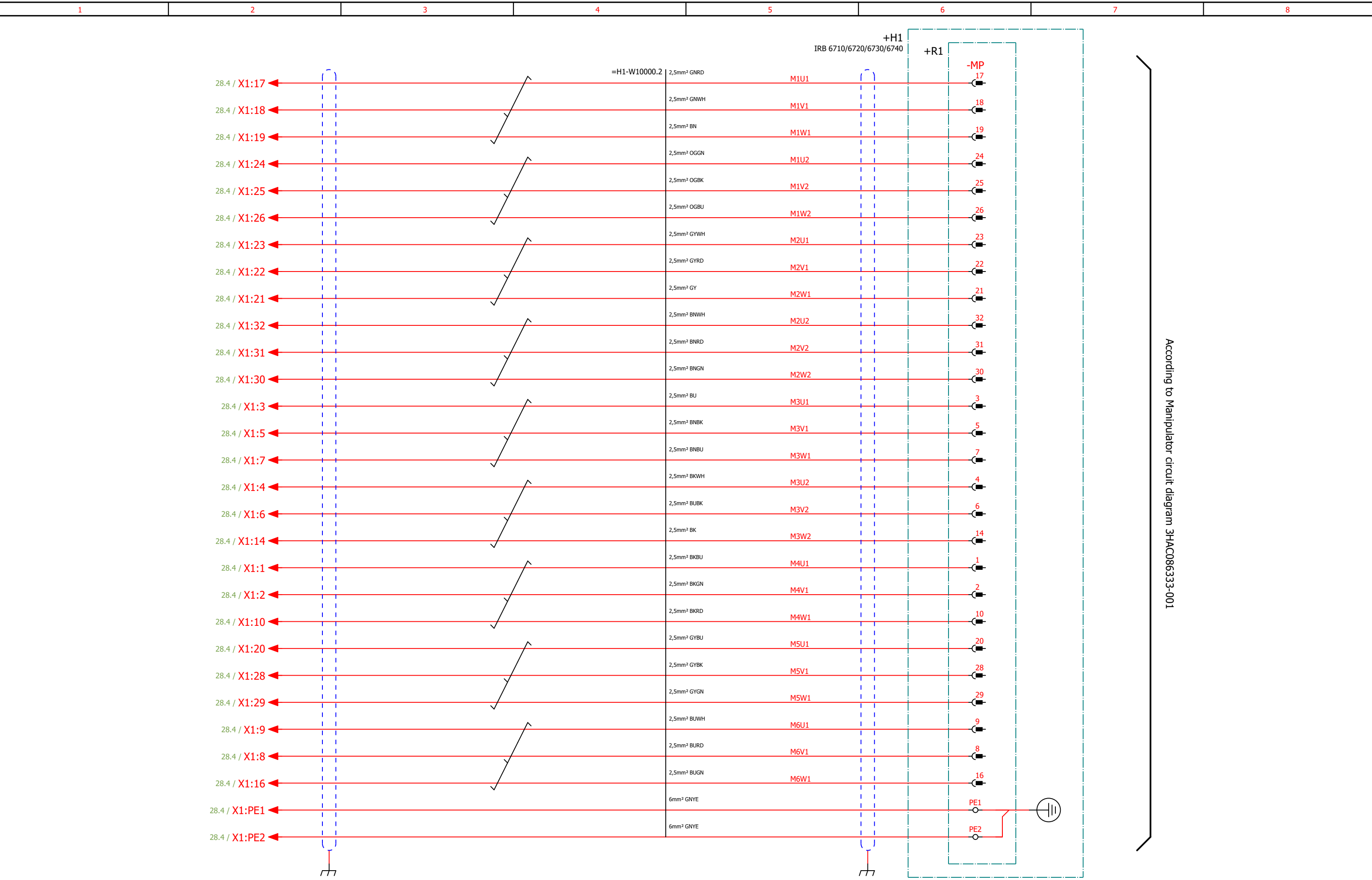
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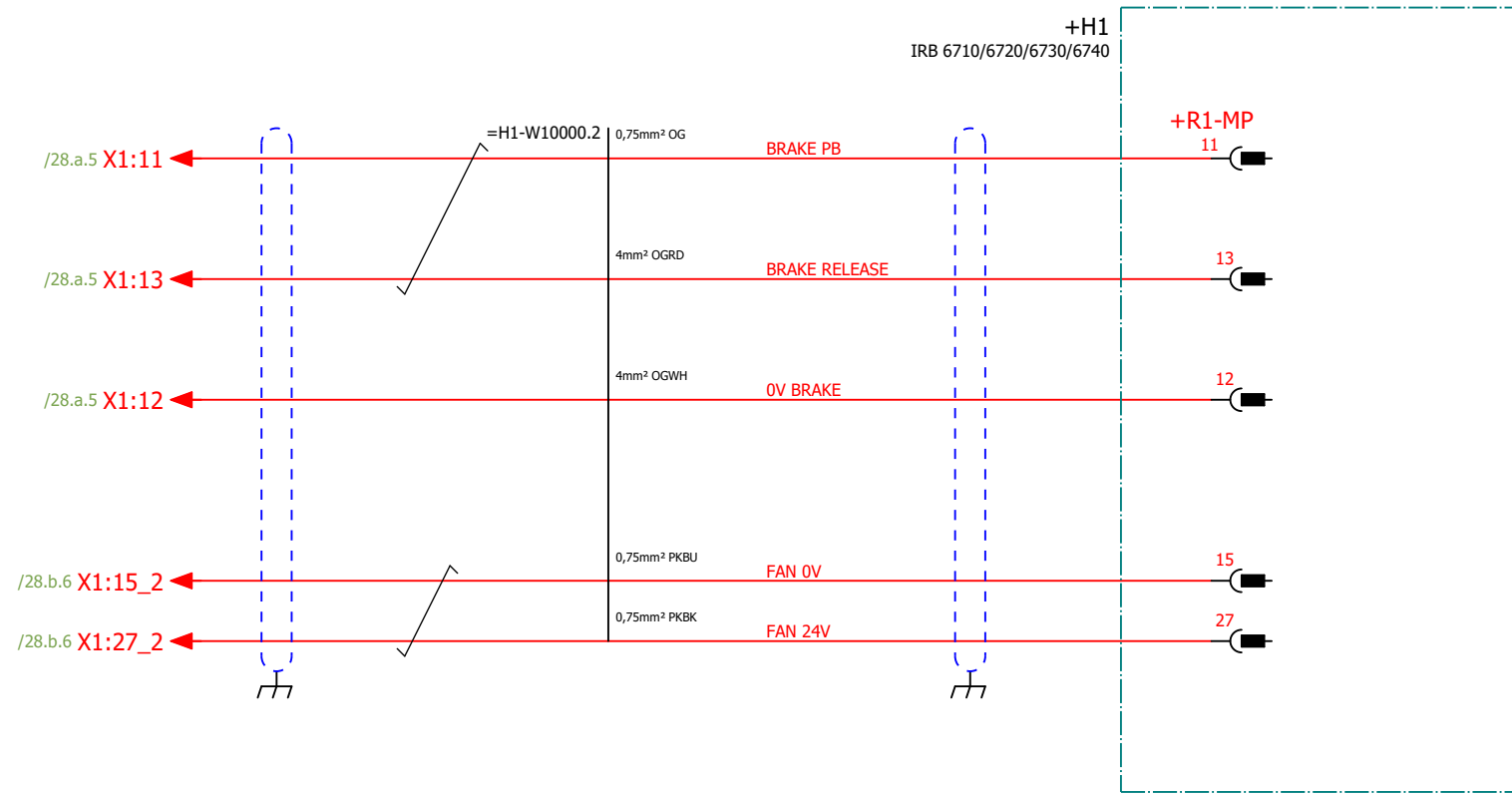
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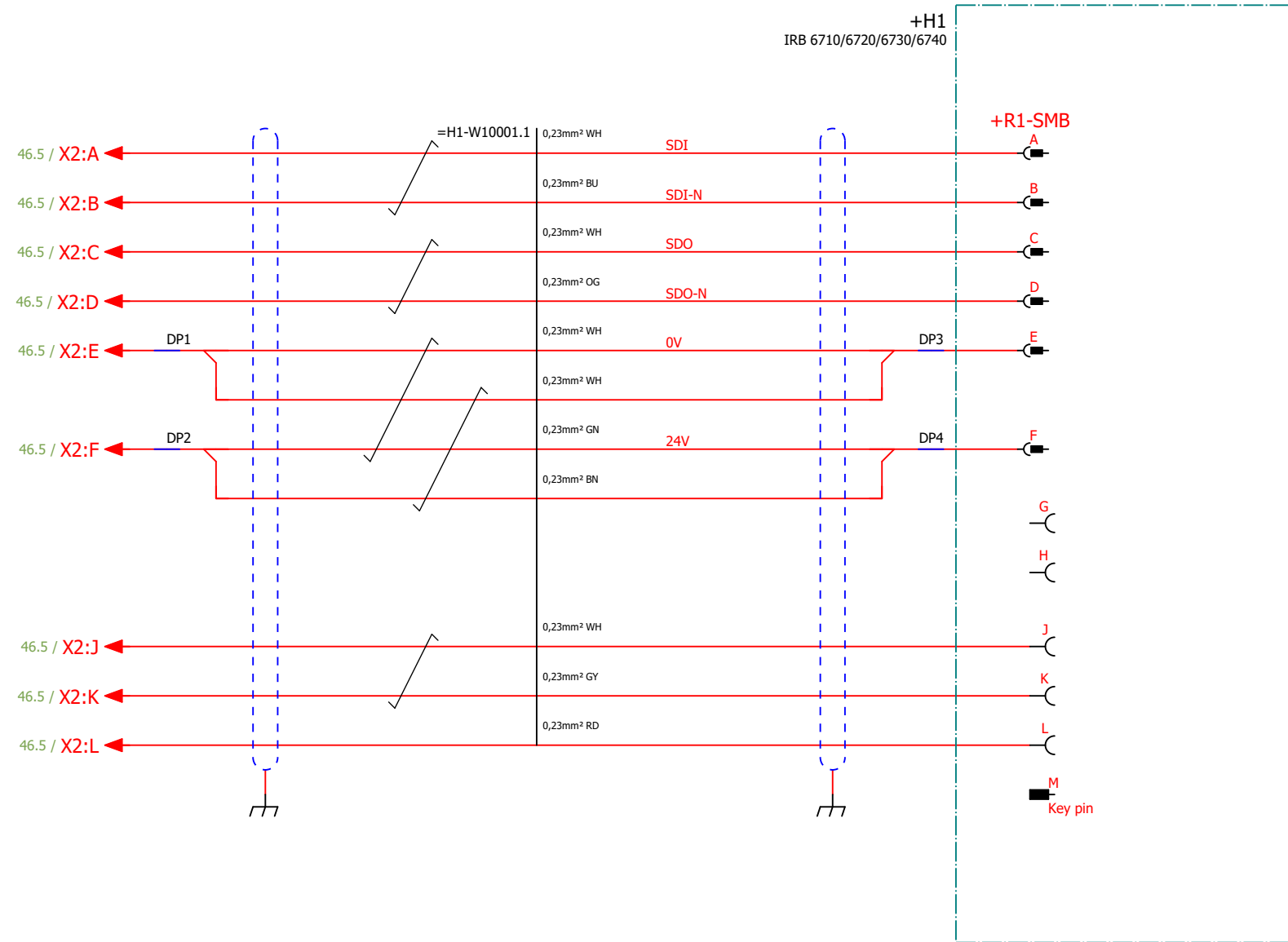
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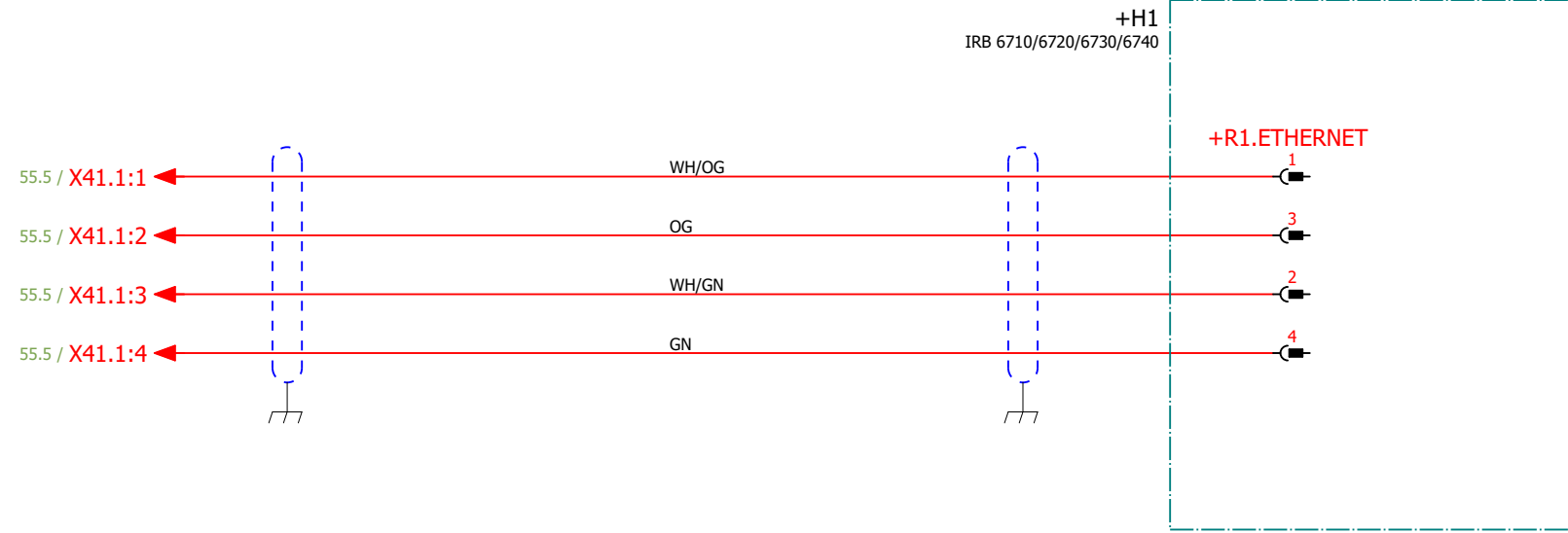
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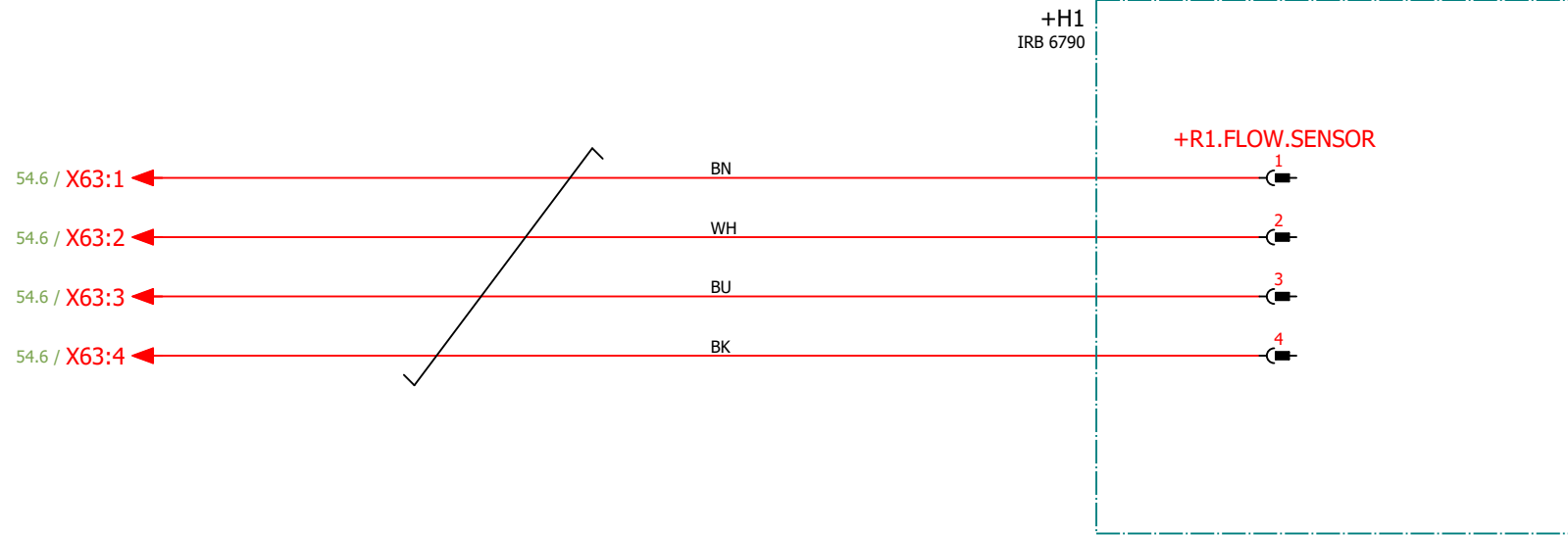
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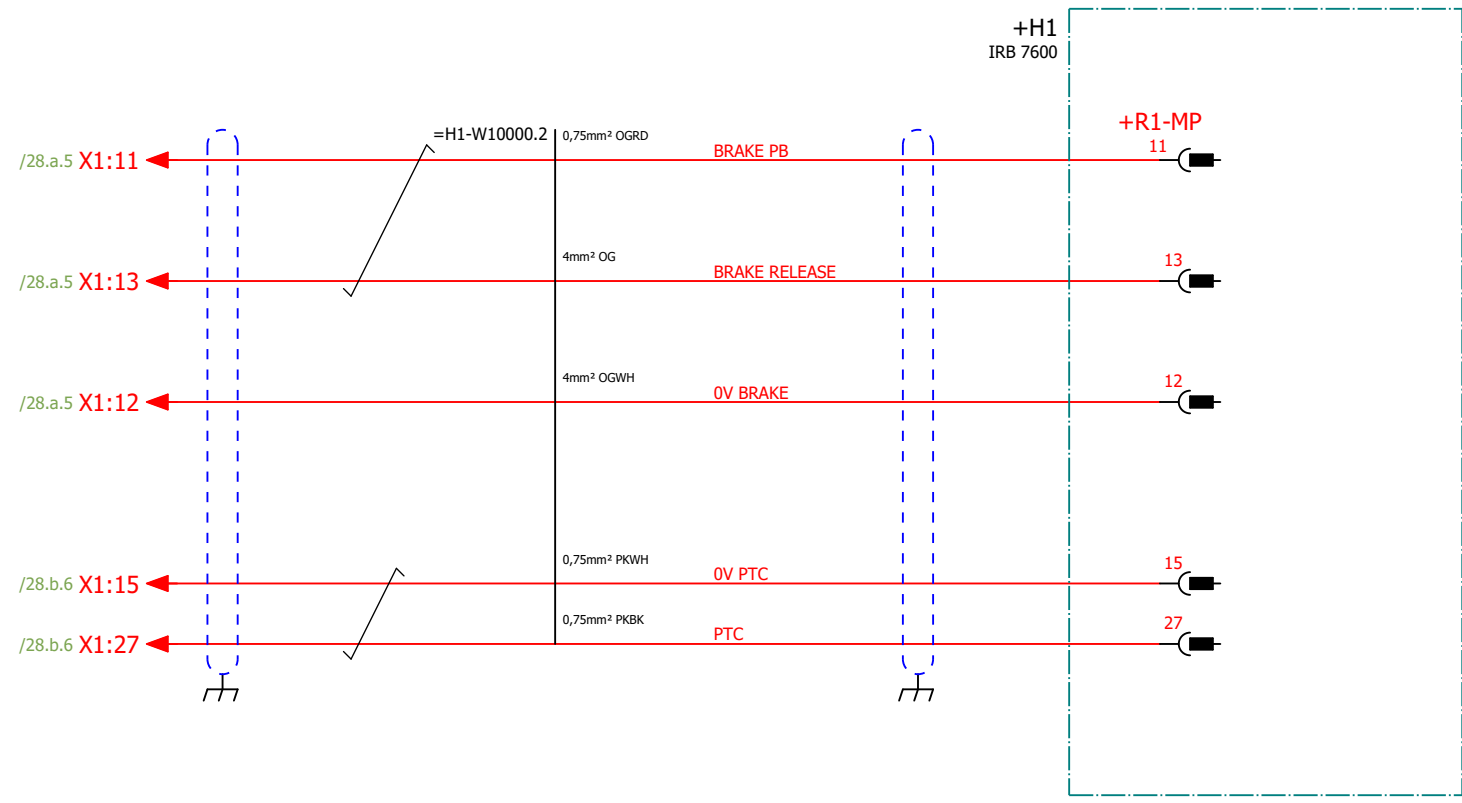
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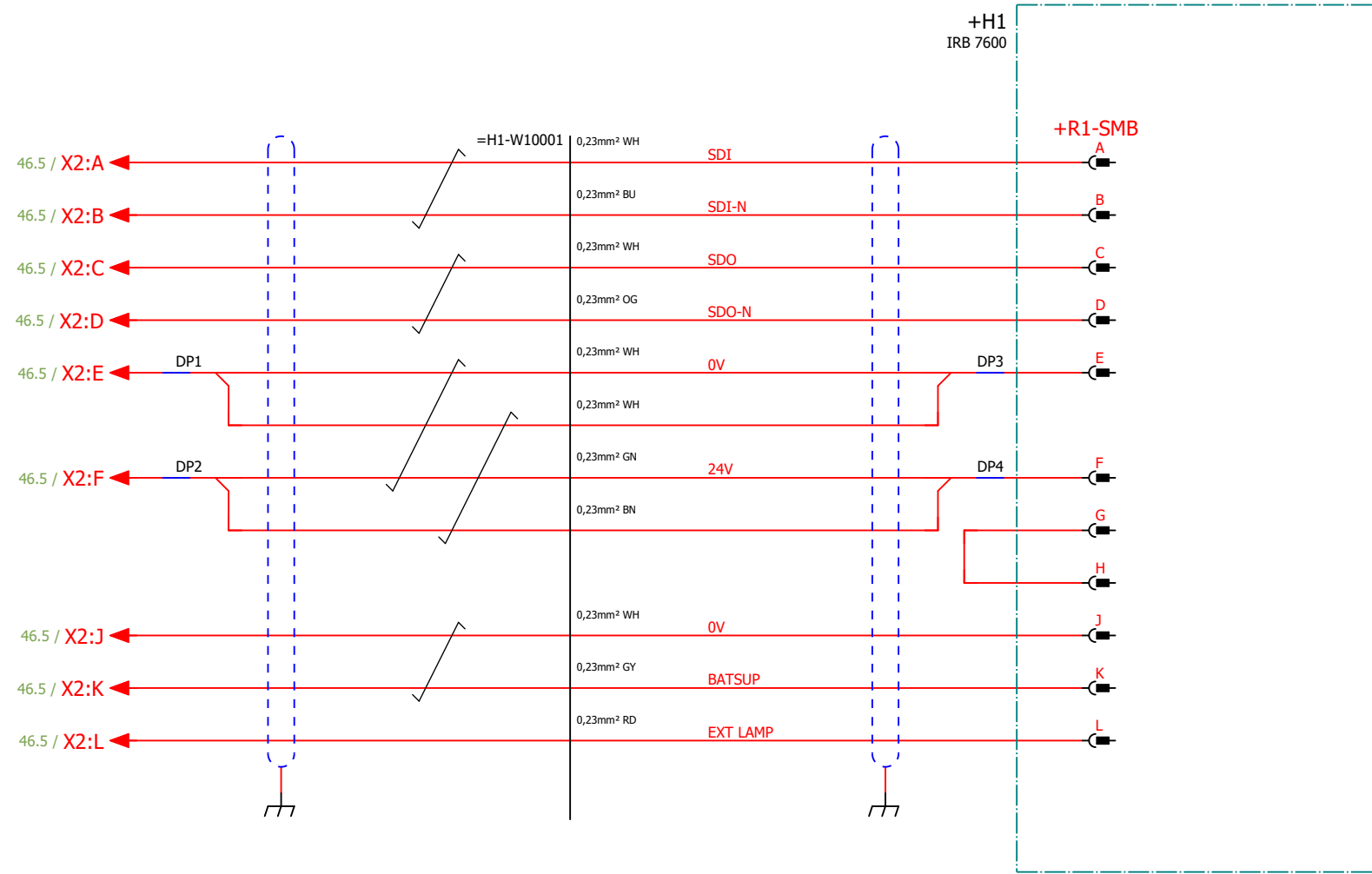




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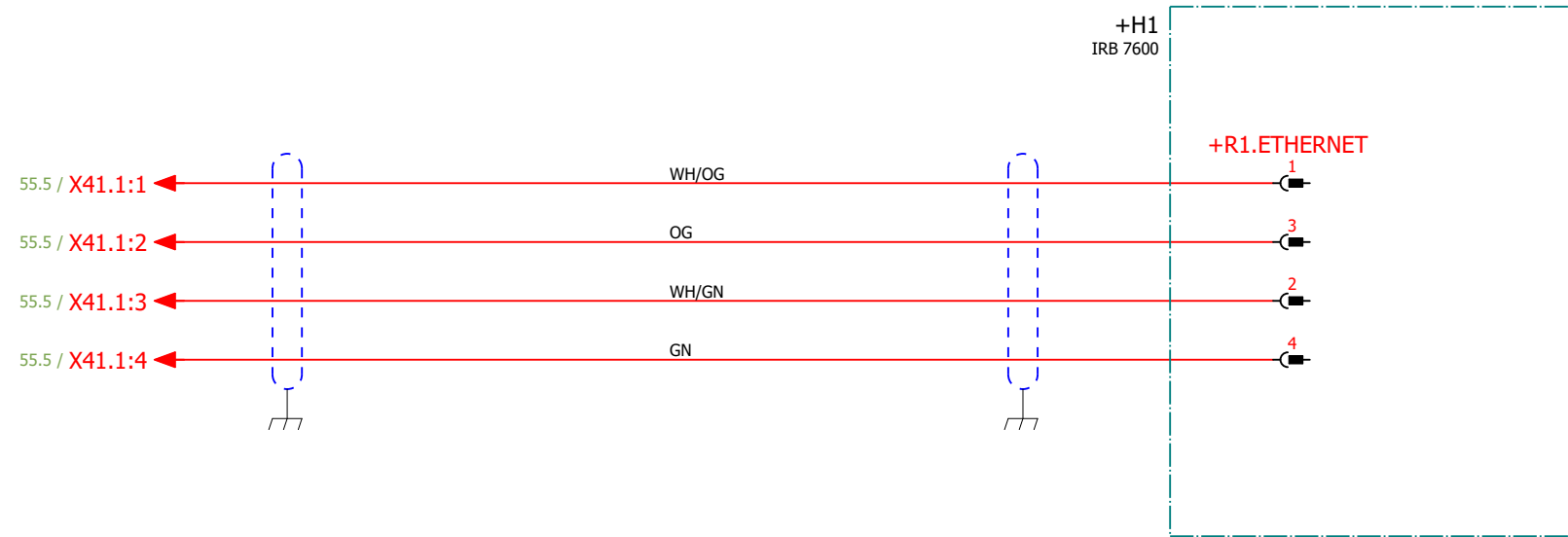
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