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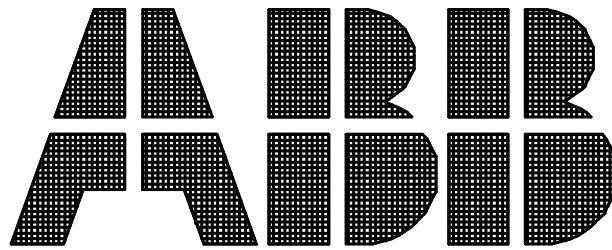
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ABB Engineering (Shanghai)
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Nanhui District, Shanghai, 201319
P.R.China



Description : Medium Track Motion IRBT
Drawing number : 2005 3HAC051586-001
Drawing version : 02
Date : 4/24/2015

Customer
Year of construction

Drawn by : CNQIL12
Number of pages : 41

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Prepared by, date: CNQIL12, 2015-04-24	Approved by, date: F Legeleux, 2015-04-24			Document no. 3HAC051586-001	Rev. Ind Page 2 Next 3 Total 41 02

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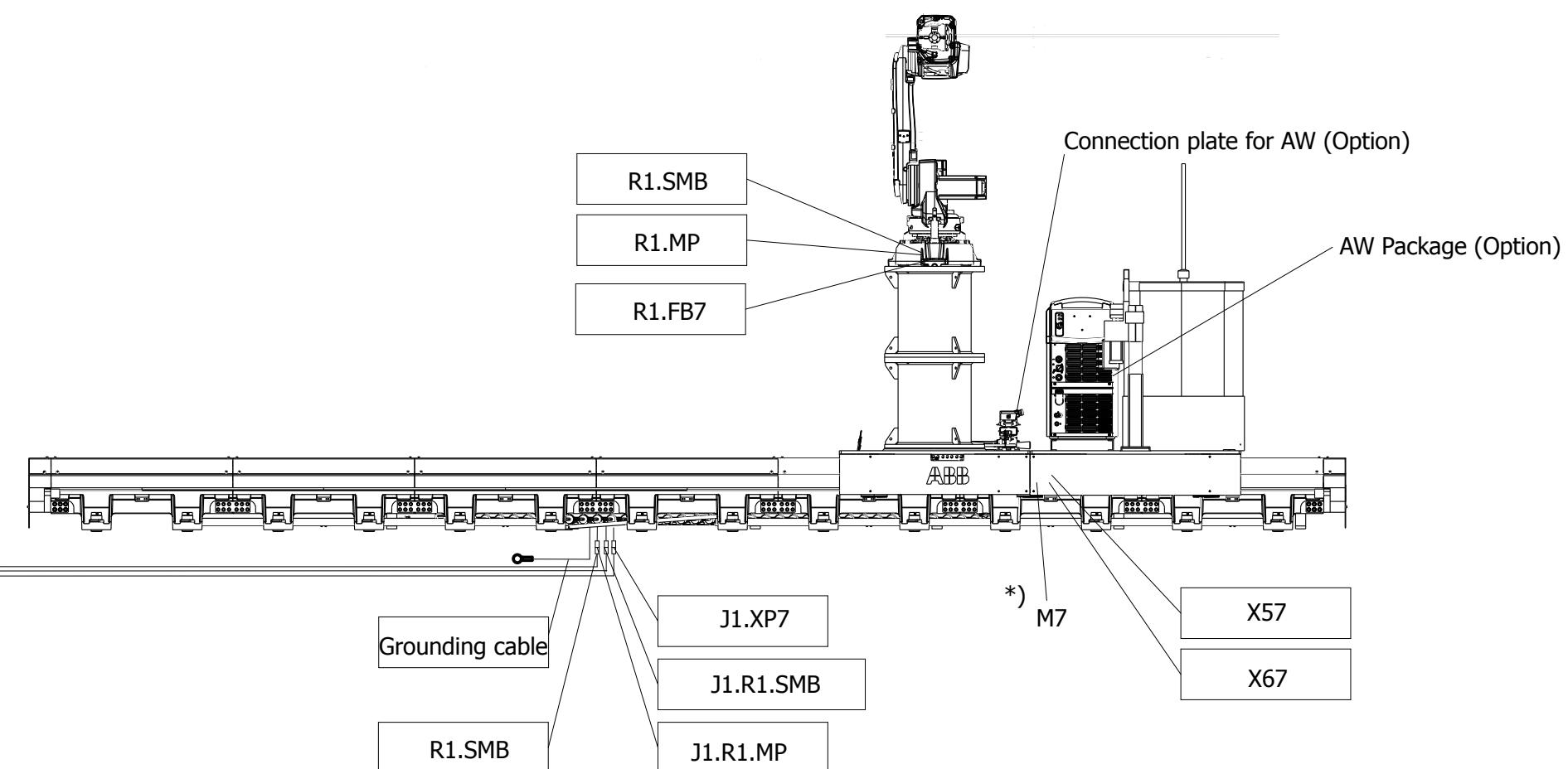
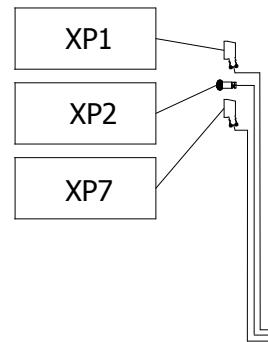
2014-07-28 First version Ver00

2014-12-18 Revision Ver01
Brake release design change.
New TSC replaced.

2015-04-24 Revision Ver02
Motor power cable design changed (3axis SMB box)

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ON SINGLE CONTROLLER

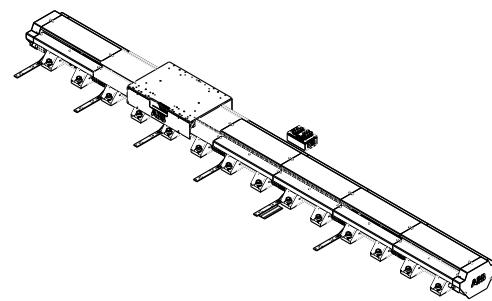


*) SYSTEM CONFIGURATION

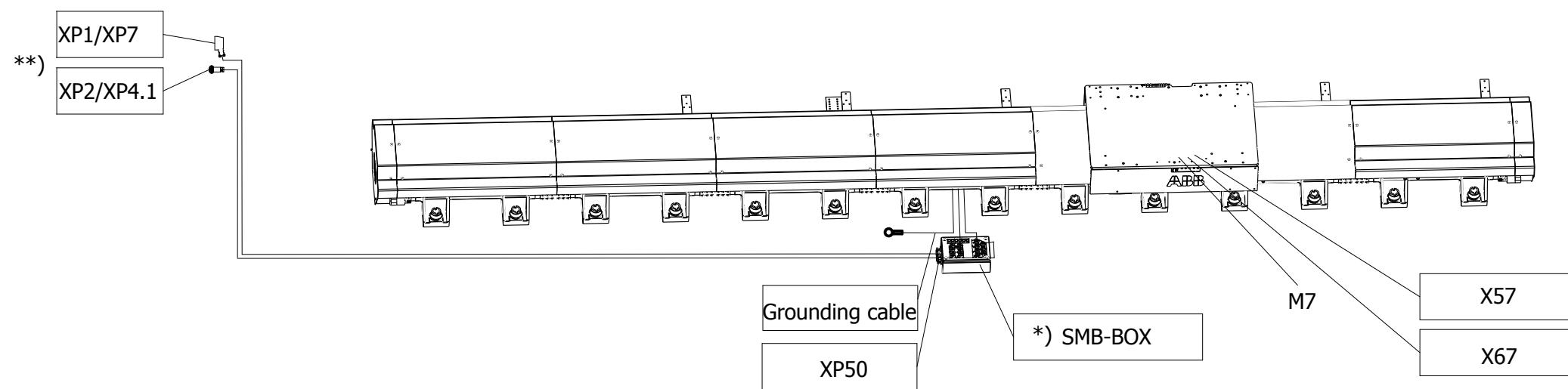
MOTOR No	SMB NODE No	UNIT
M7	7	ROBOT TRACK

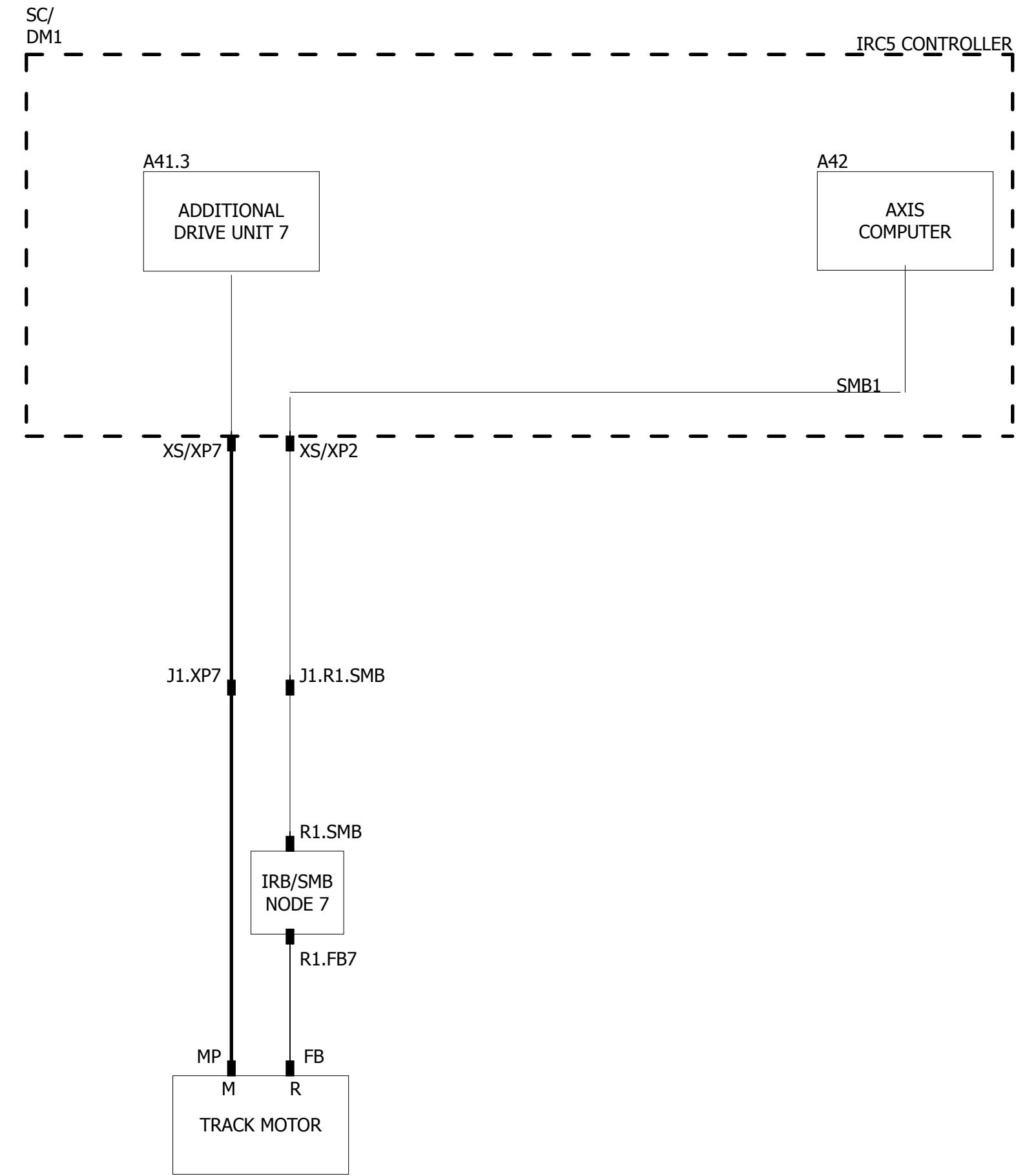
*) Two options for SMB BOX solution:
3-axis SMB BOX/6-axis SMB BOX

**) XP7&XP4.1 for TransferTrack with 3-axis SMB BOX
XP1&XP2 for TransferTrack with 6-axis SMB BOX



ON SINGLE CONTROLLER





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Medium Track Motion IRBT 2005
BLOCK DIAGRAM
(ROBOTTRACK)

Status:
Approved

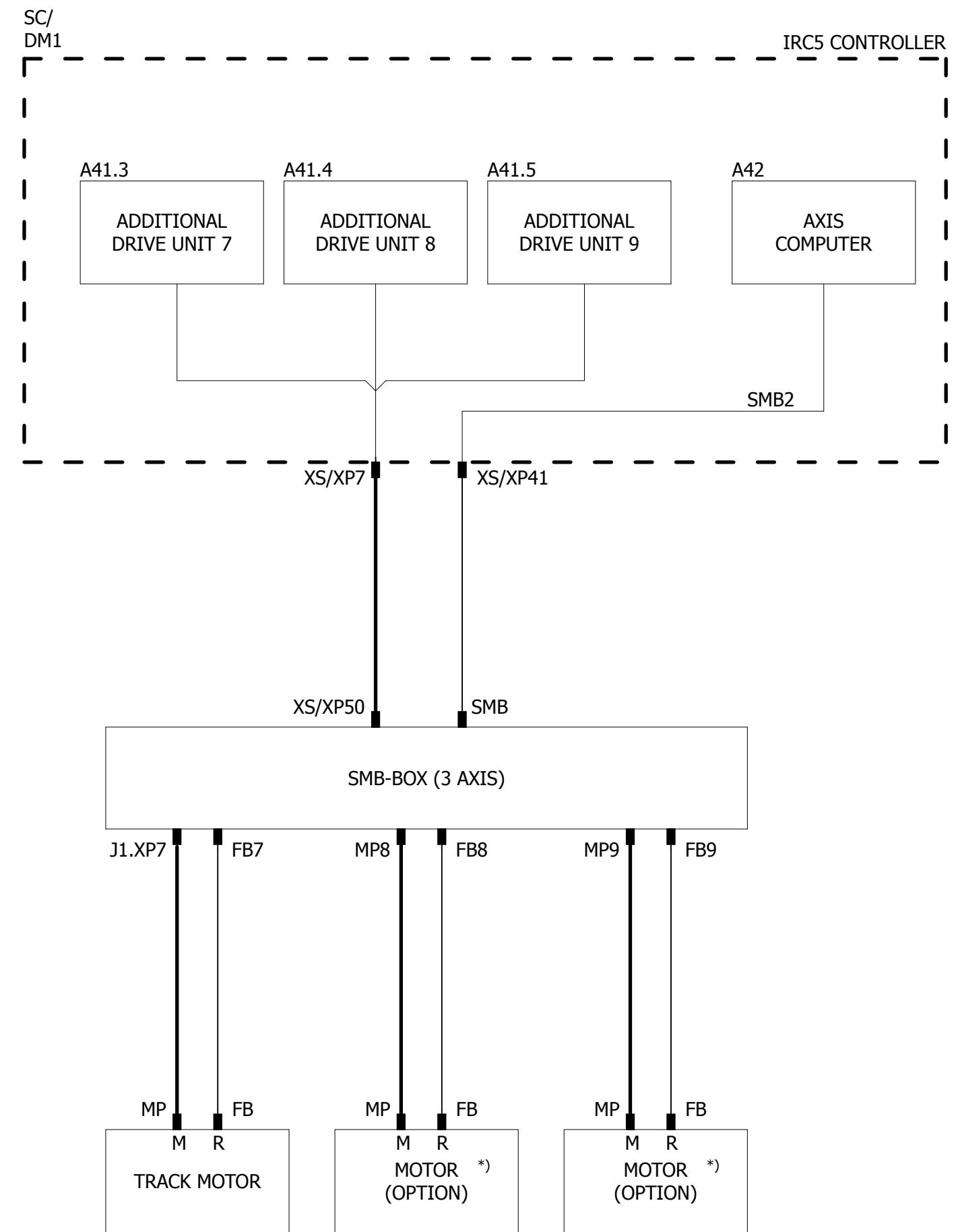
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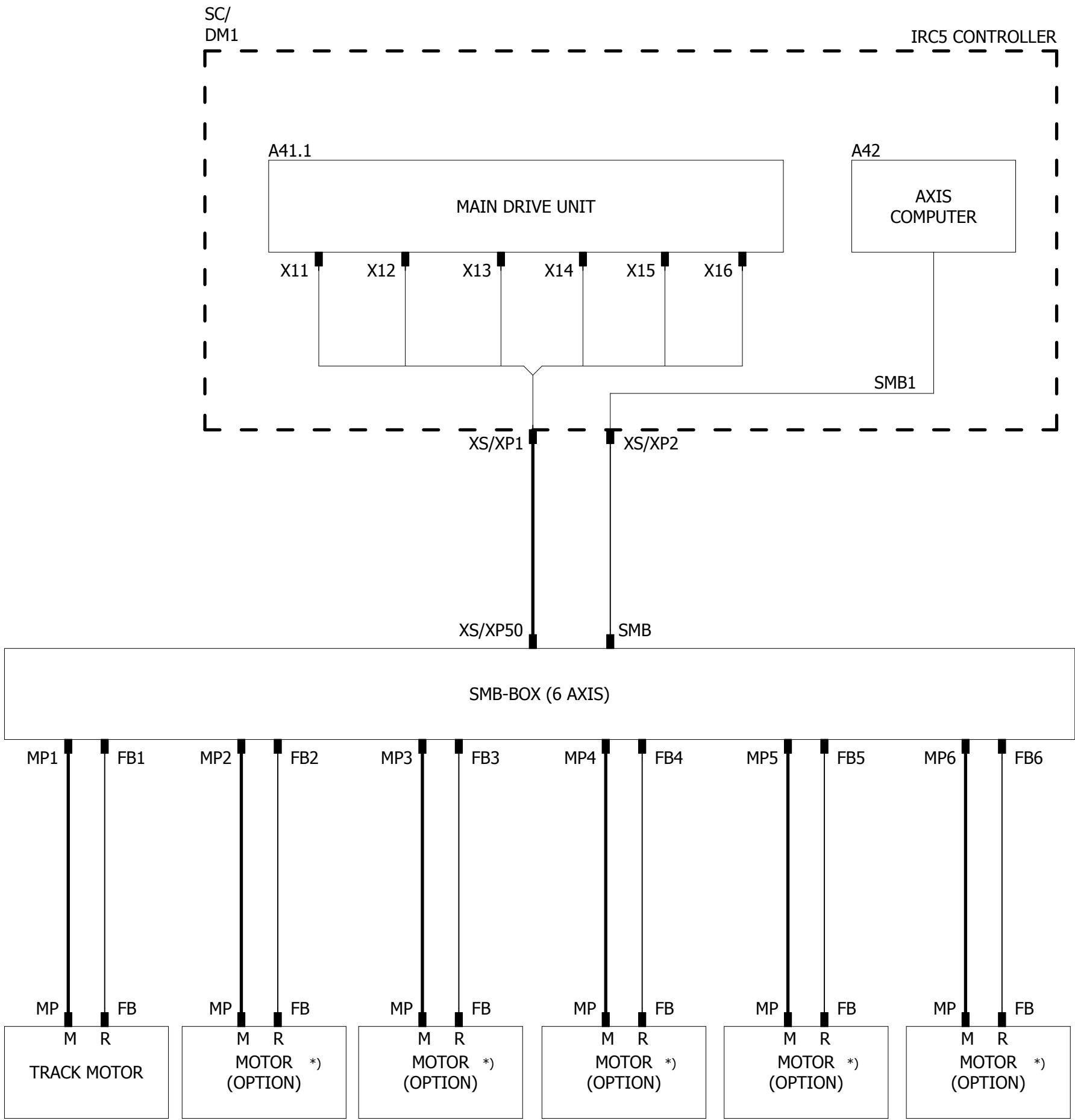
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*) Usually, the option motor will be served as rotation unit or lifter unit.



*) Usually, the option motor will be served as rotation unit or lifter unit.

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Medium Track Motion IRBT 2005
BLOCK DIAGRAM SCENARIO B
TRANSFERTRACK

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Location: +
Sublocation: +

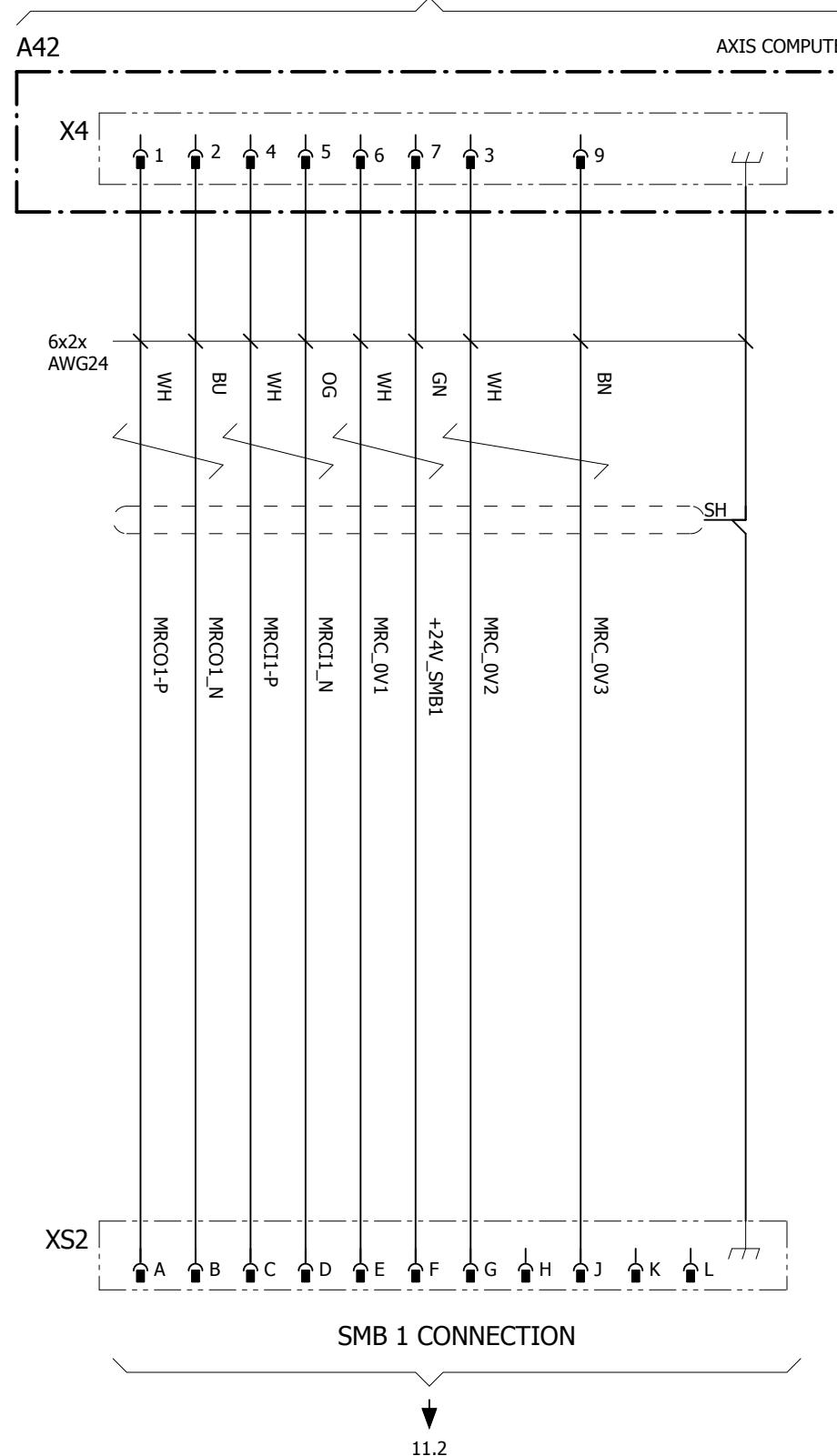
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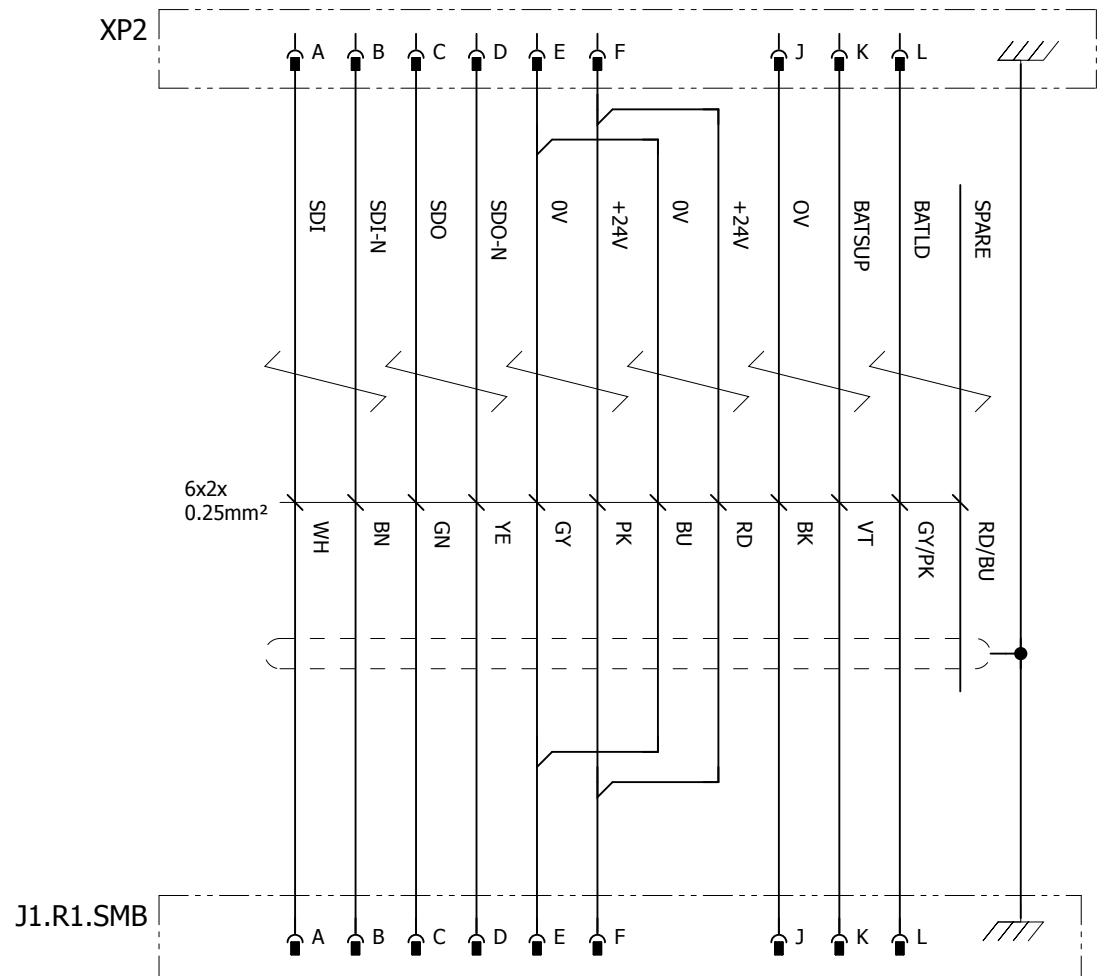
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CONTROLLER



10.2

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12.7

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Medium Track Motion IRBT
2005 RESOLVER CABLE, ROBOT

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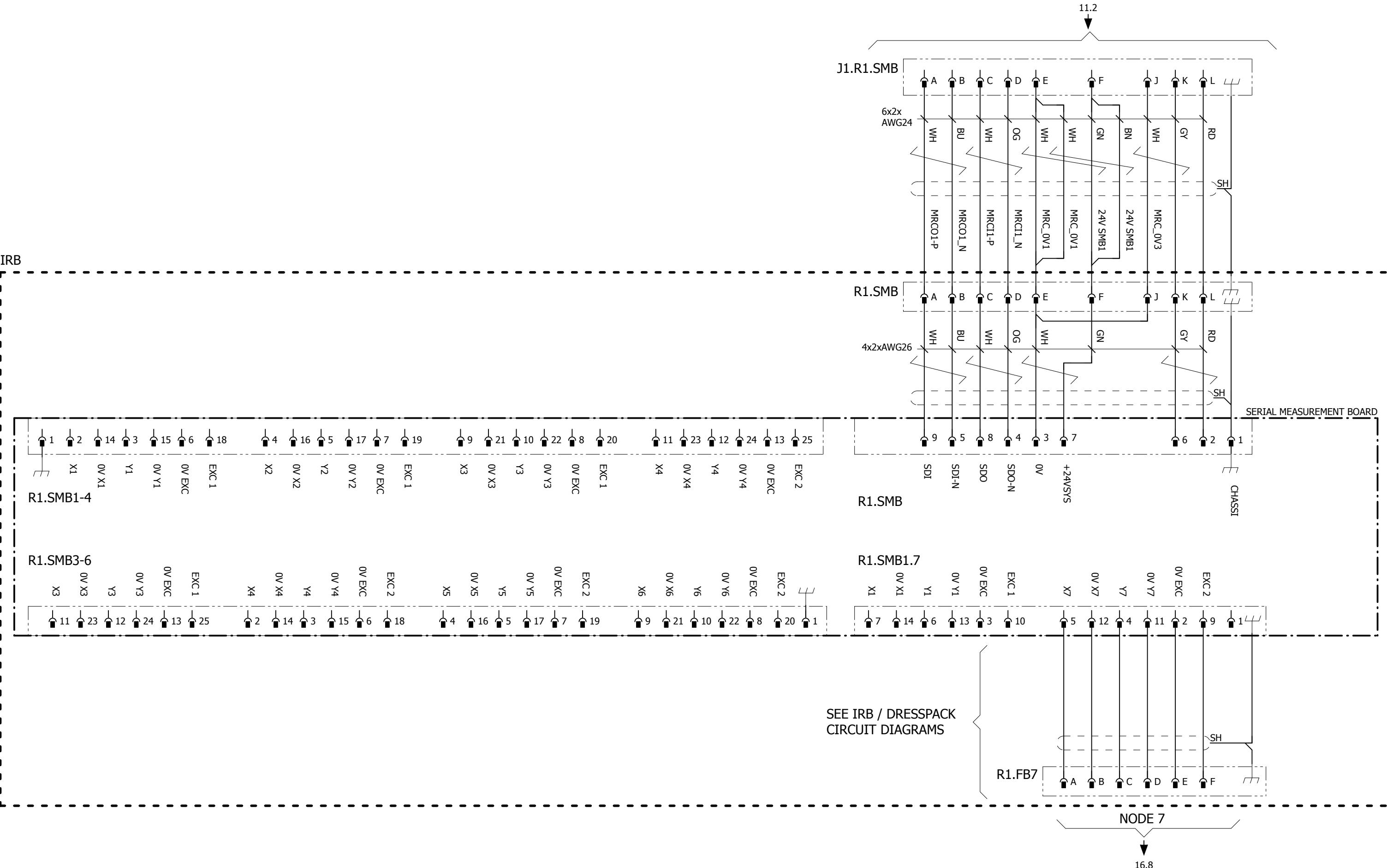
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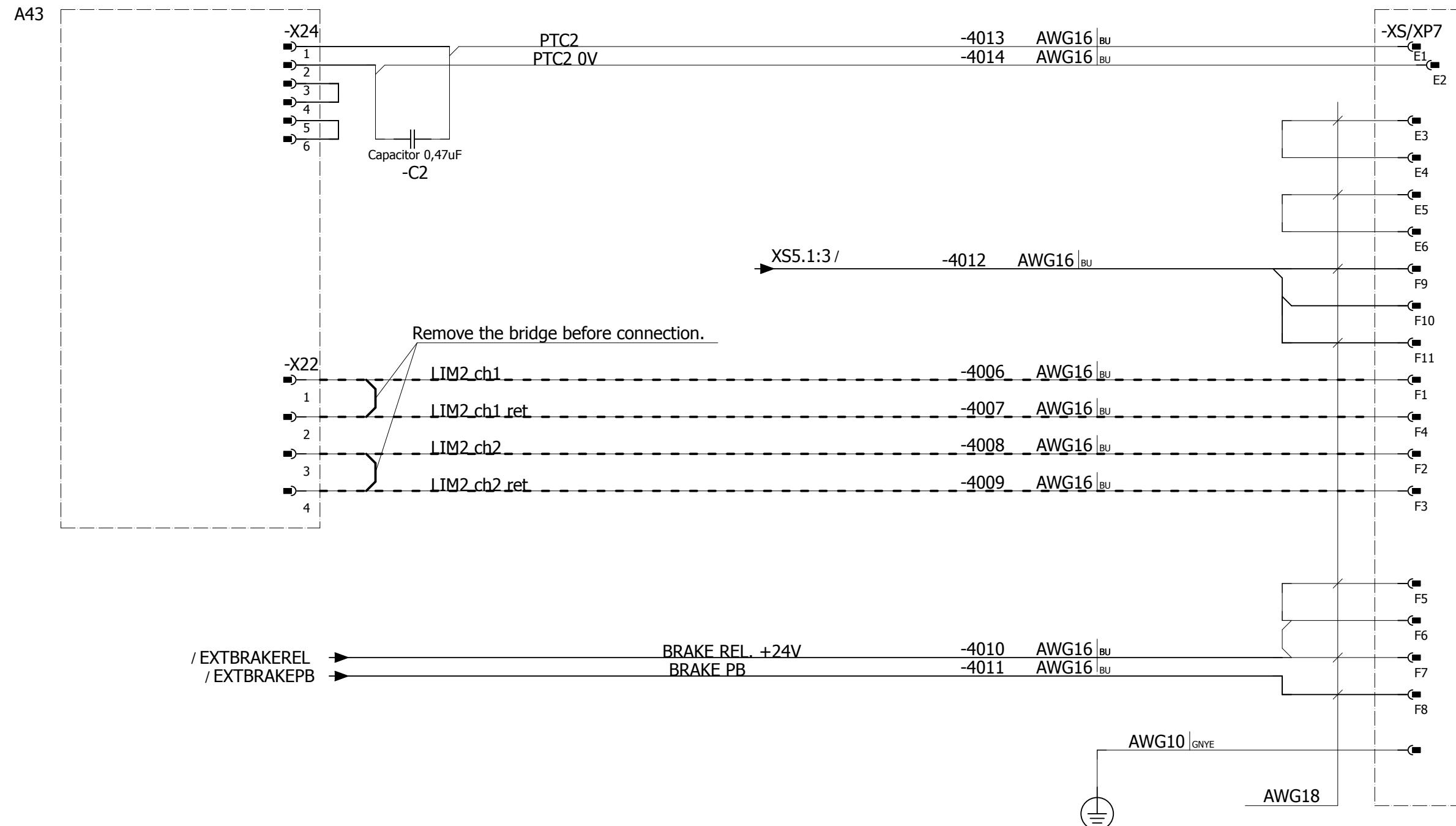
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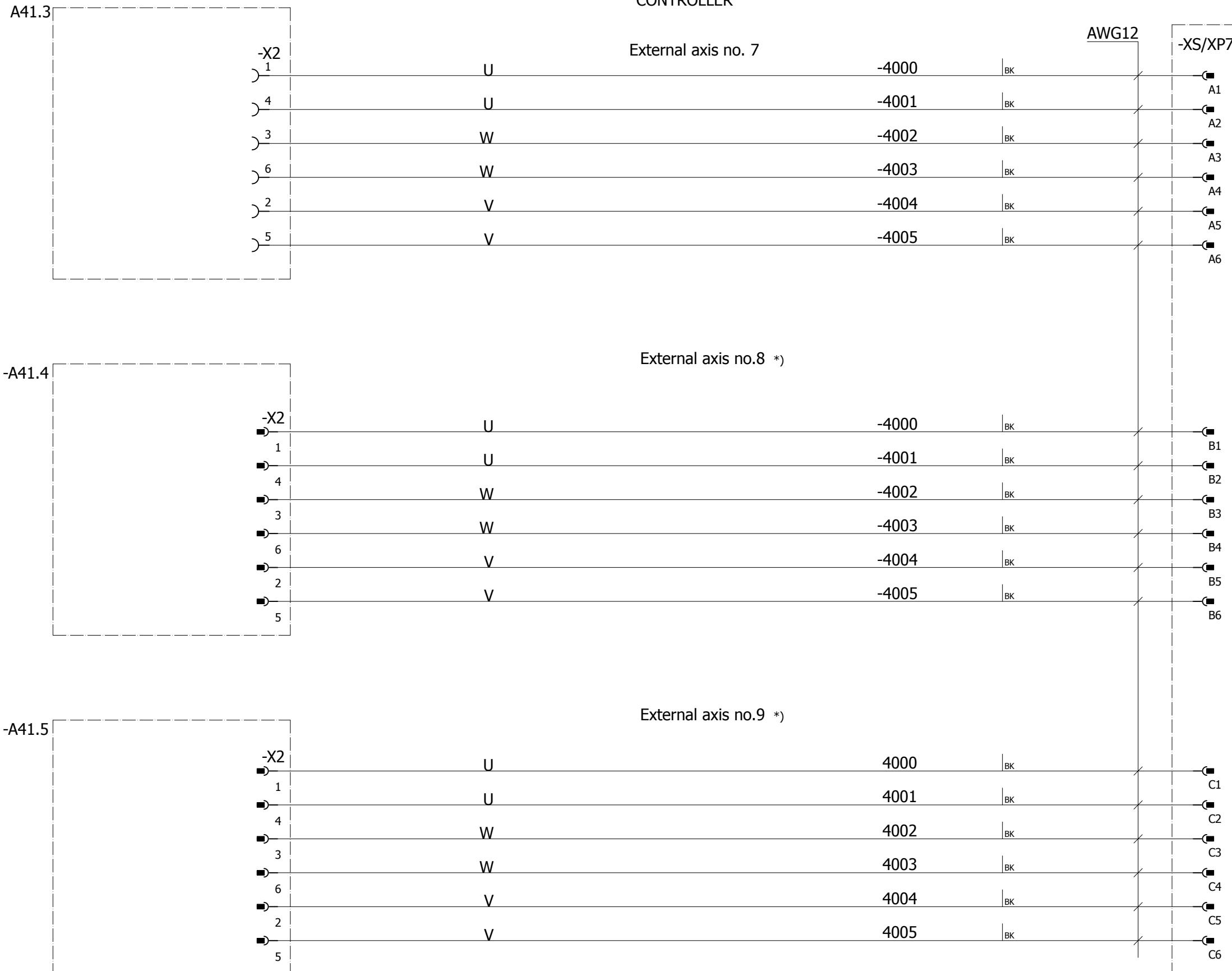
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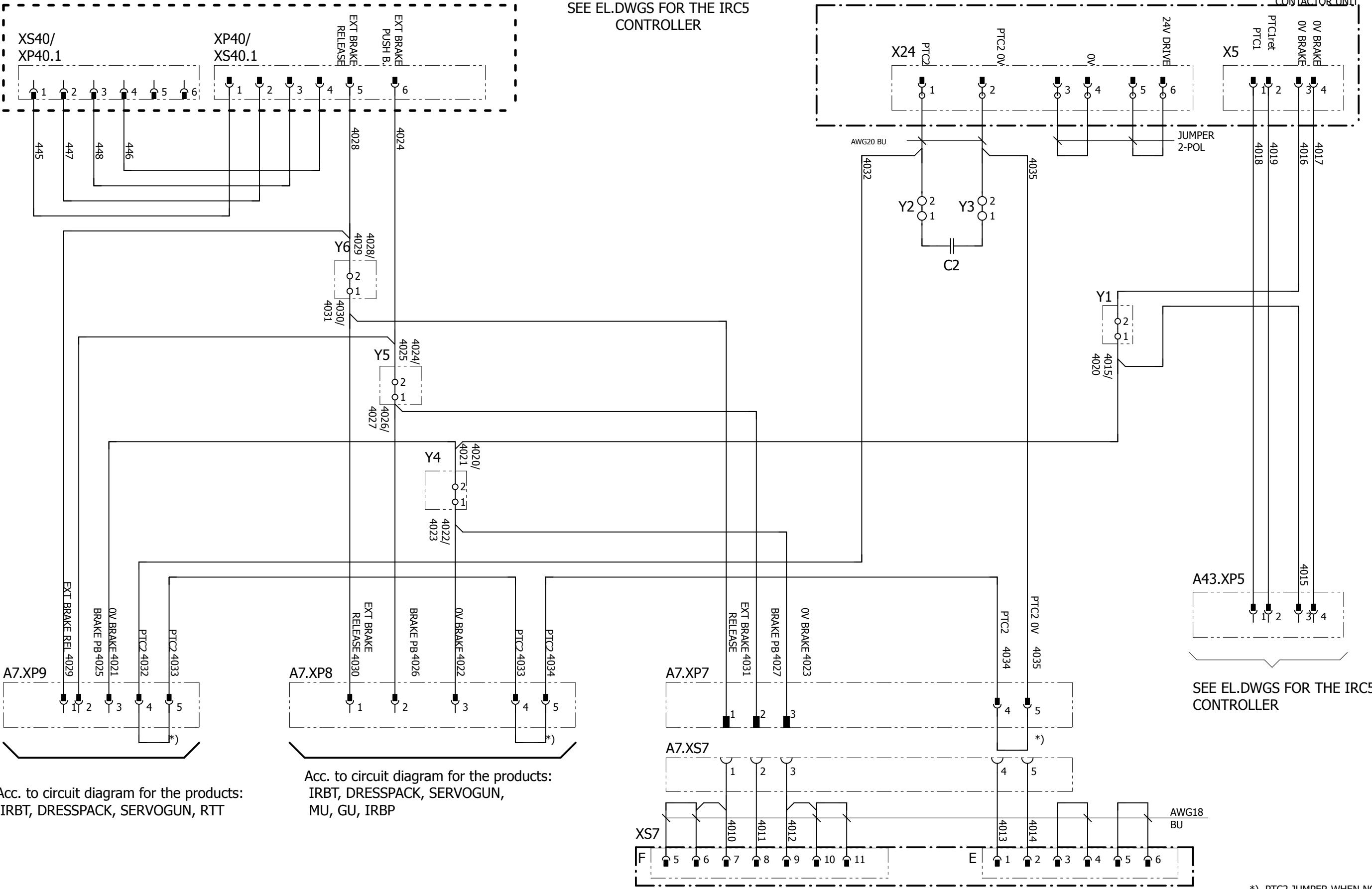
SEE EL.DWGS FOR THE IRC5
CONTROLLER



SEE EL.DWGS FOR THE IRC5
CONTROLLER



*) Only available for 3-axis SMB BOX.

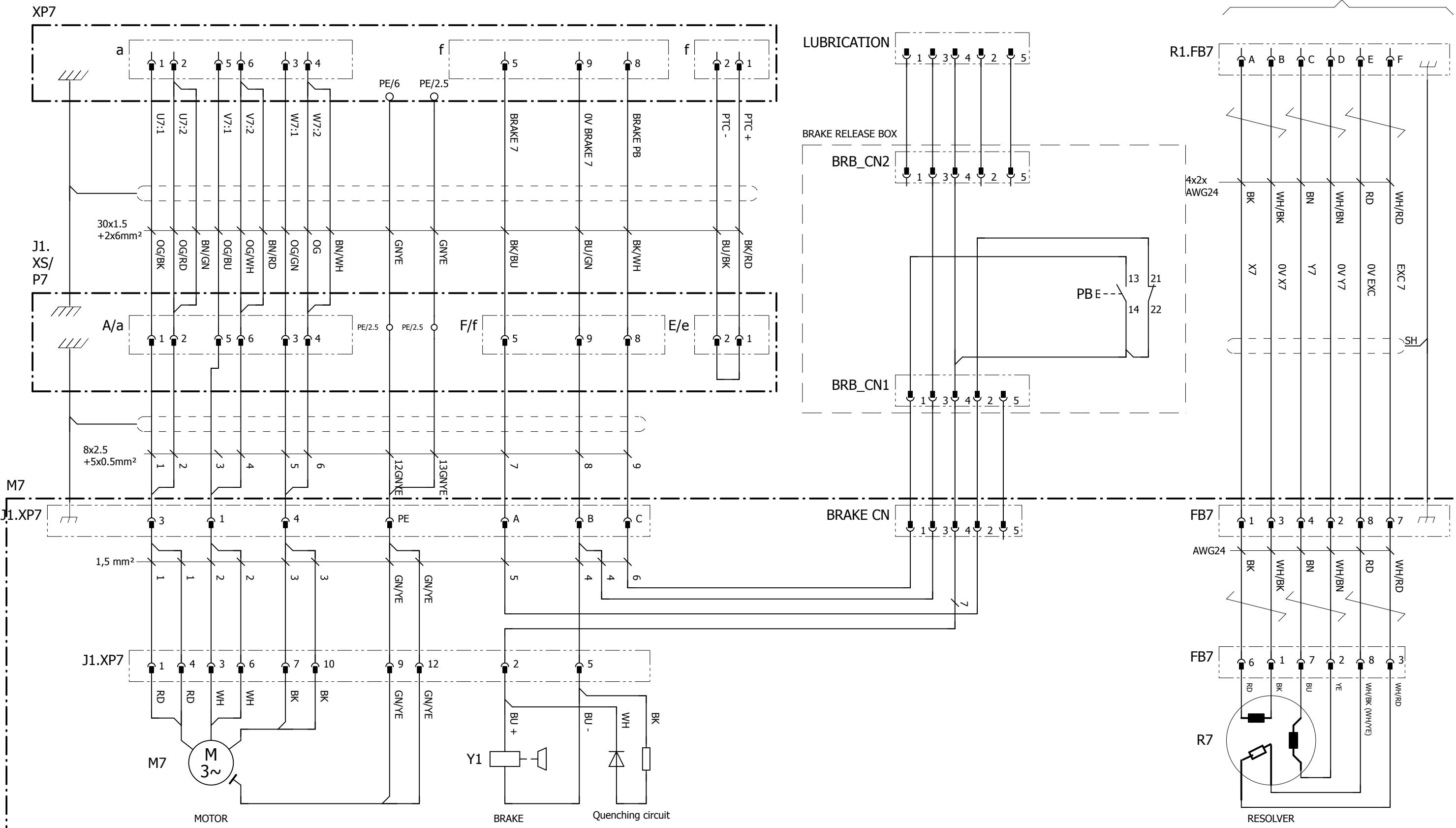


*) PTC2 JUMPER WHEN NOT CONNECTED.

CONNECTED WITH AWG16 BU,
IF NO OTHER NOTATION

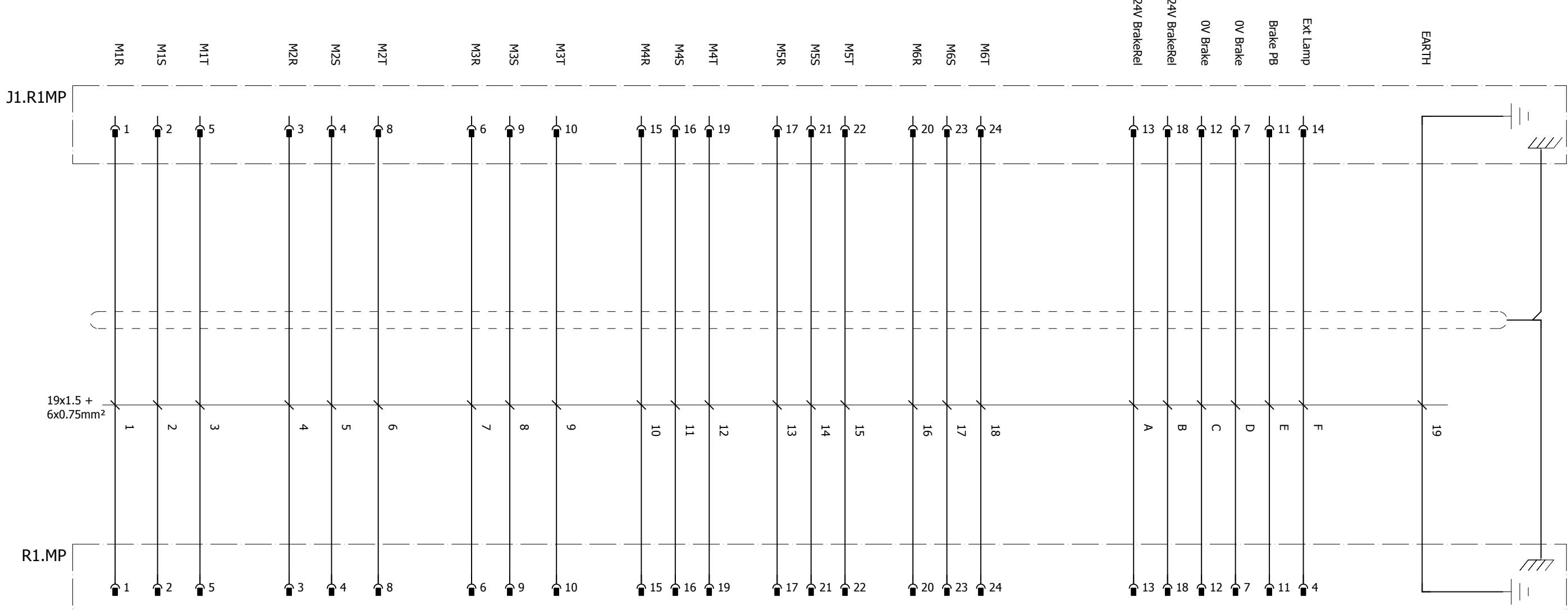
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Prepared by, date: CNQILI2, 2015-04-24	Approved by, date: F Legeleux, 2015-04-24		EXTERNAL AXES ADAPTER HARNESS XS/XP40, A43:XP5, A7:XP7 :XP8 :XP9 Only for rel 14.1 and later	Location: + Sublocation:+	Page 15
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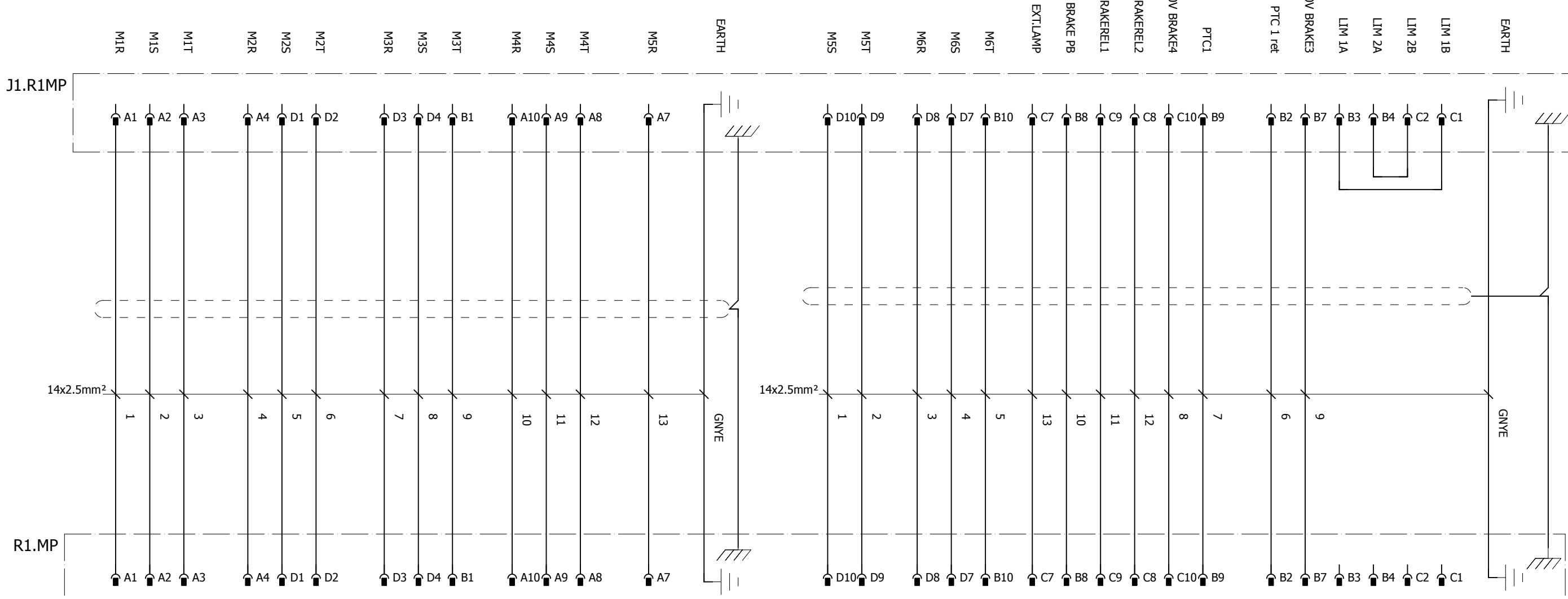
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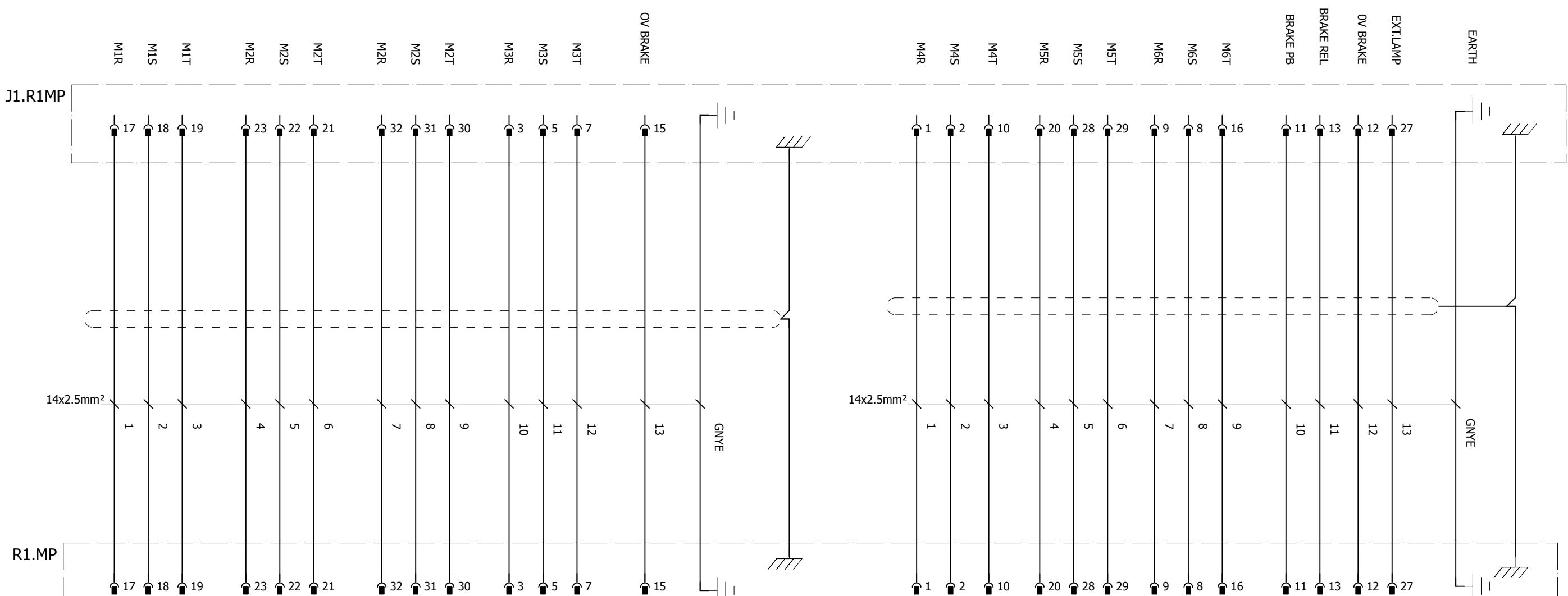
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SEE EL. DRAWINGS FOR THE ROBOT CONTROL SYSTEM



SEE EL. DRAWINGS FOR THE ROBOT CONTROL SYSTEM



SEE EL. DRAWINGS FOR THE IRB MANIPULATOR

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Medium Track Motion IRBT 2005
ROBOT MOTOR CABLE, IRB
26/4600

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CUSTOMER POWER

J1.CP/CS

A1 B1 C1 D1 A2 B2 C2 D2 A3 B3 C3 D3

12x AWG18 RD BL GN YE WH BK BN VT OG PK QY

R1.CP/CS

A1 B1 C1 D1 A2 B2 C2 D2 A3 B3 C3 D3

CUSTOMER SIGNAL

B5 C5 D5 A6 B6 C6 D6 A7 B7 C7 D7 A8 B8 C8 D8 A9 B9 C9 D9 A10 B10 C10 D10

16x2x 0.23 mm² WH/BLU BL OG GN BN WH/GN WH/YR RD BL RD OG GN BN RD QY BK BL OG 1)

SEE EL. DRAWINGS FOR THE IRB MANIPULATOR

- 1) Spare wire need be cut off.

Latest revision:



Lab/Office:
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Medium Track Motion IRBT 2005
OPTION CUSTOMER POWER/SIGNAL,
IRB 1600

Status:
Approved

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Location: +
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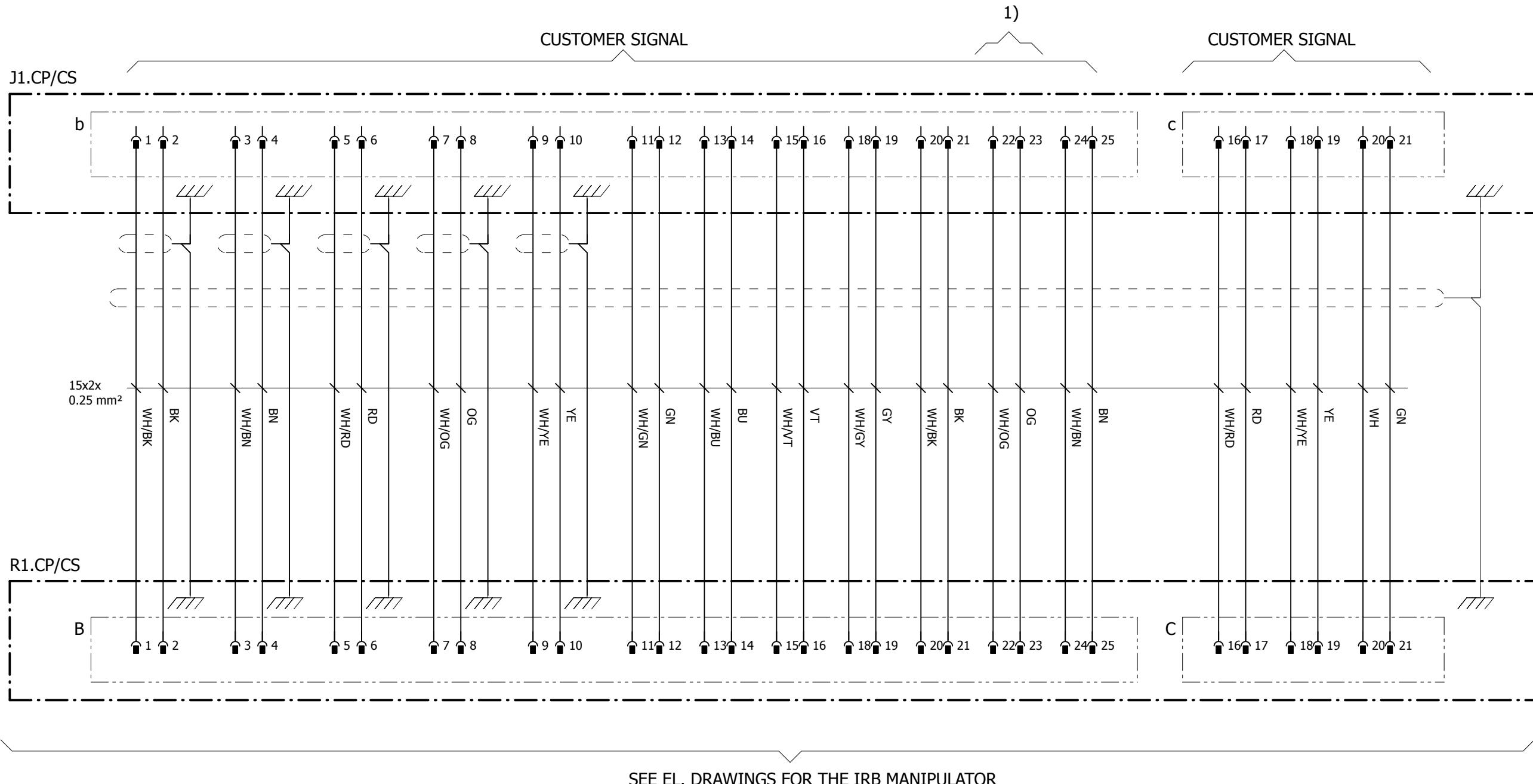
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SEE EL. DRAWINGS FOR THE ROBOT CONTROL SYSTEM



- 1) Part OG, WH/OG not connected to b/B.22,23 when Opt. DeviceNet, see sh. 13.

Latest revision:



Lab/Office:
DMRO/RM

Medium Track Motion IRBT 2005
OPTION CUSTOMER POWER/SIGNAL,
IRB 26/4600

Status:
Approved

Plant: =
Location: +
Sublocation: +

Document no.

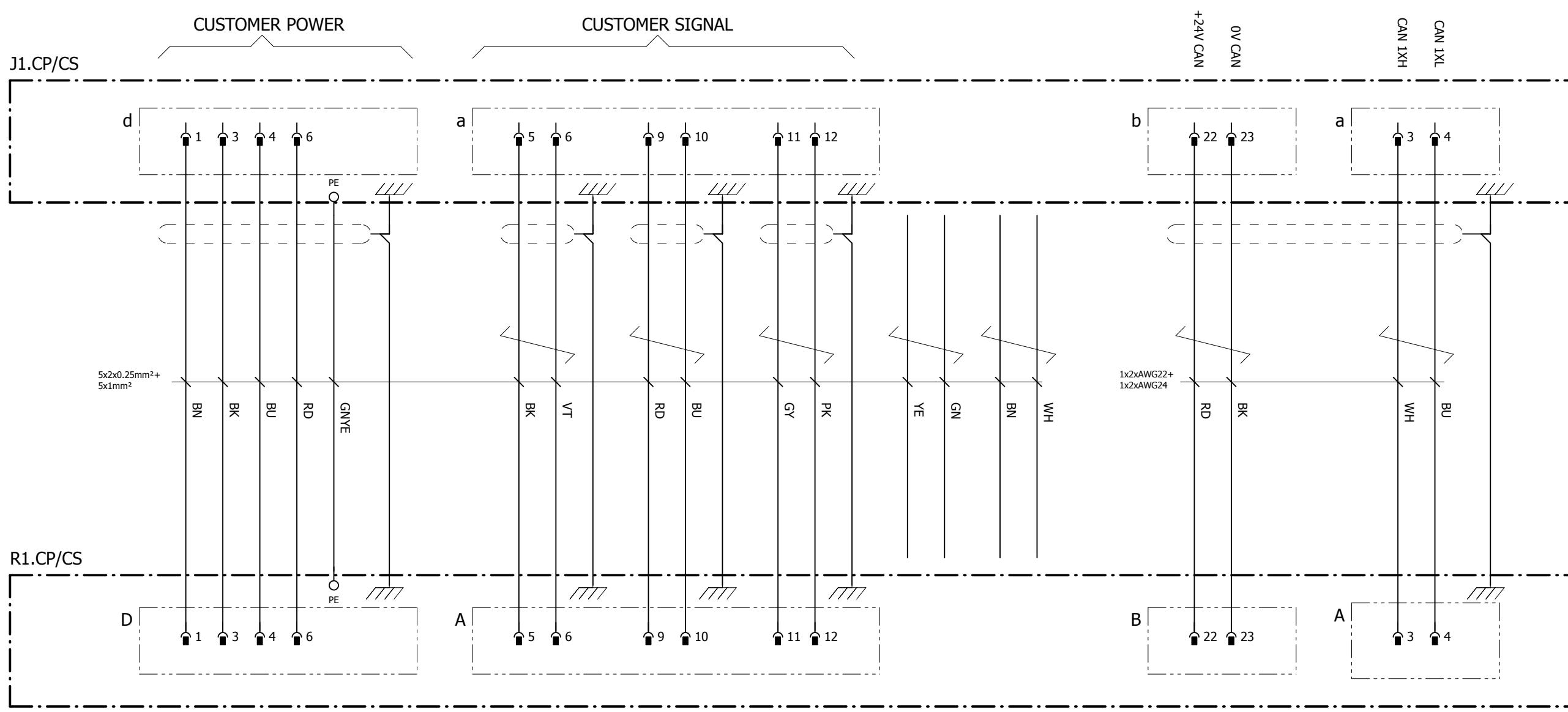
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SEE EL. DRAWINGS FOR THE IRB MANIPULATOR

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Medium Track Motion IRBT 2005
OPTION CUSTOMER POWER/SIGNAL
DEVICENET, IRB 26/4600

Status:
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Plant: =
Location: +
Sublocation: +

Document no.

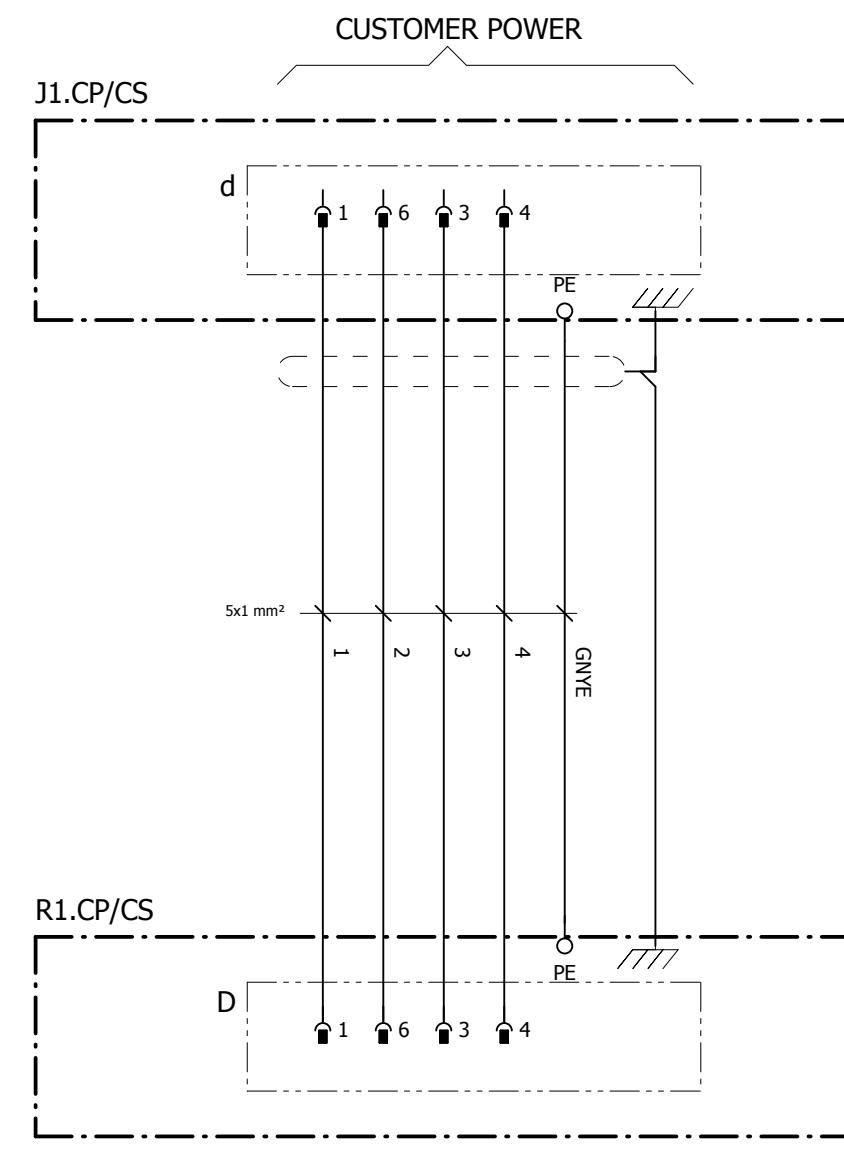
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SEE EL. DRAWINGS FOR THE IRB MANIPULATOR

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Medium Track Motion IRBT 2005
OPTION CUSTOMER POWER/SIGNAL
PARALLEL, IRB 26/4600

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Sublocation: +

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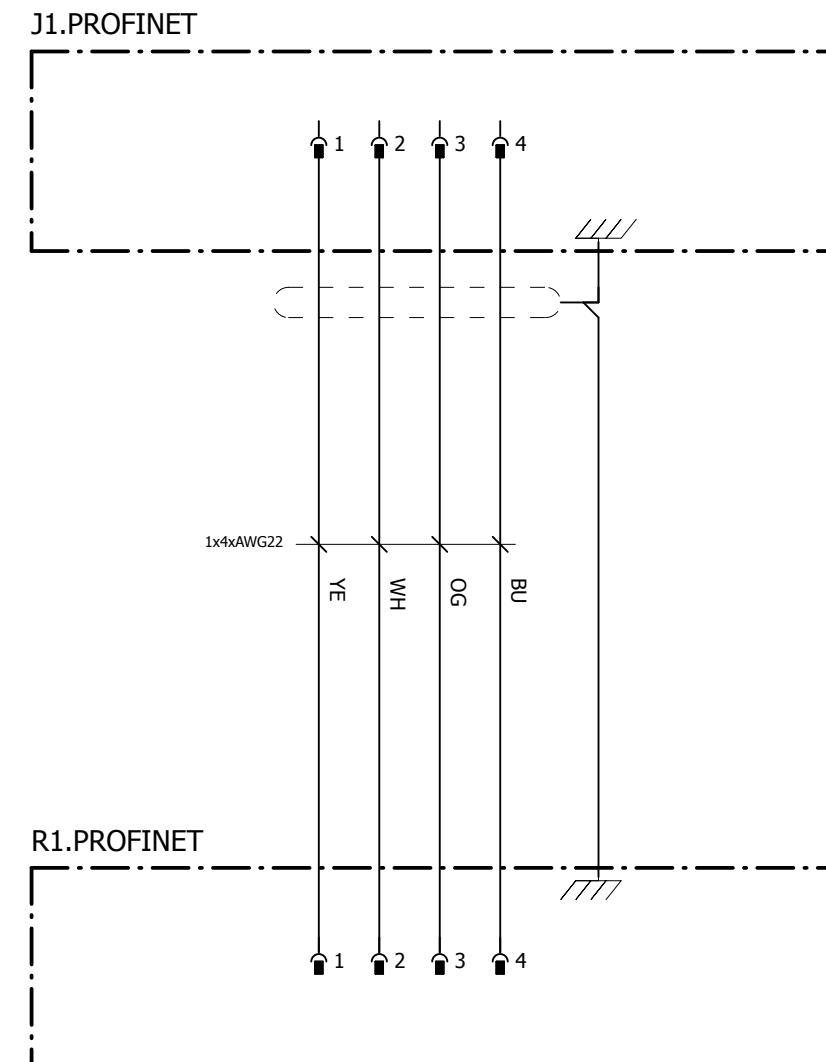
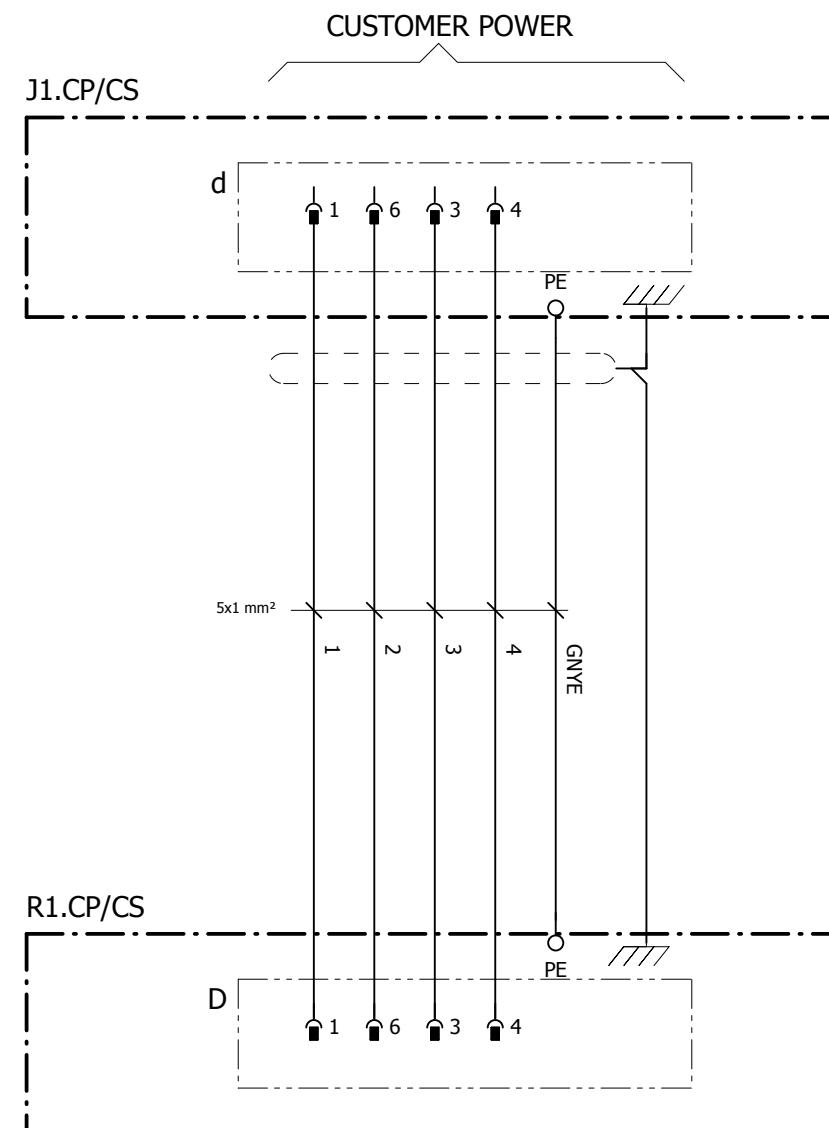
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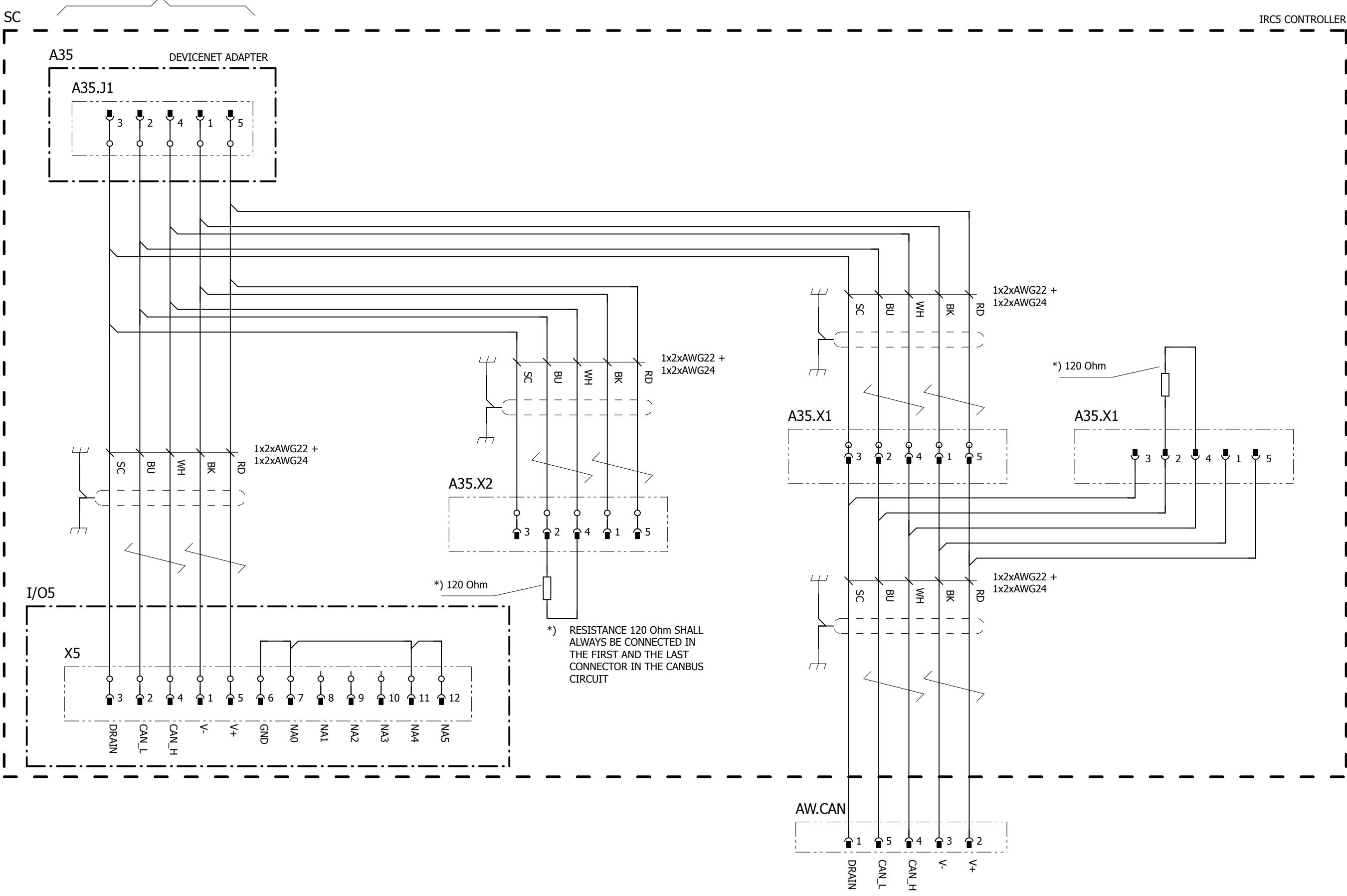
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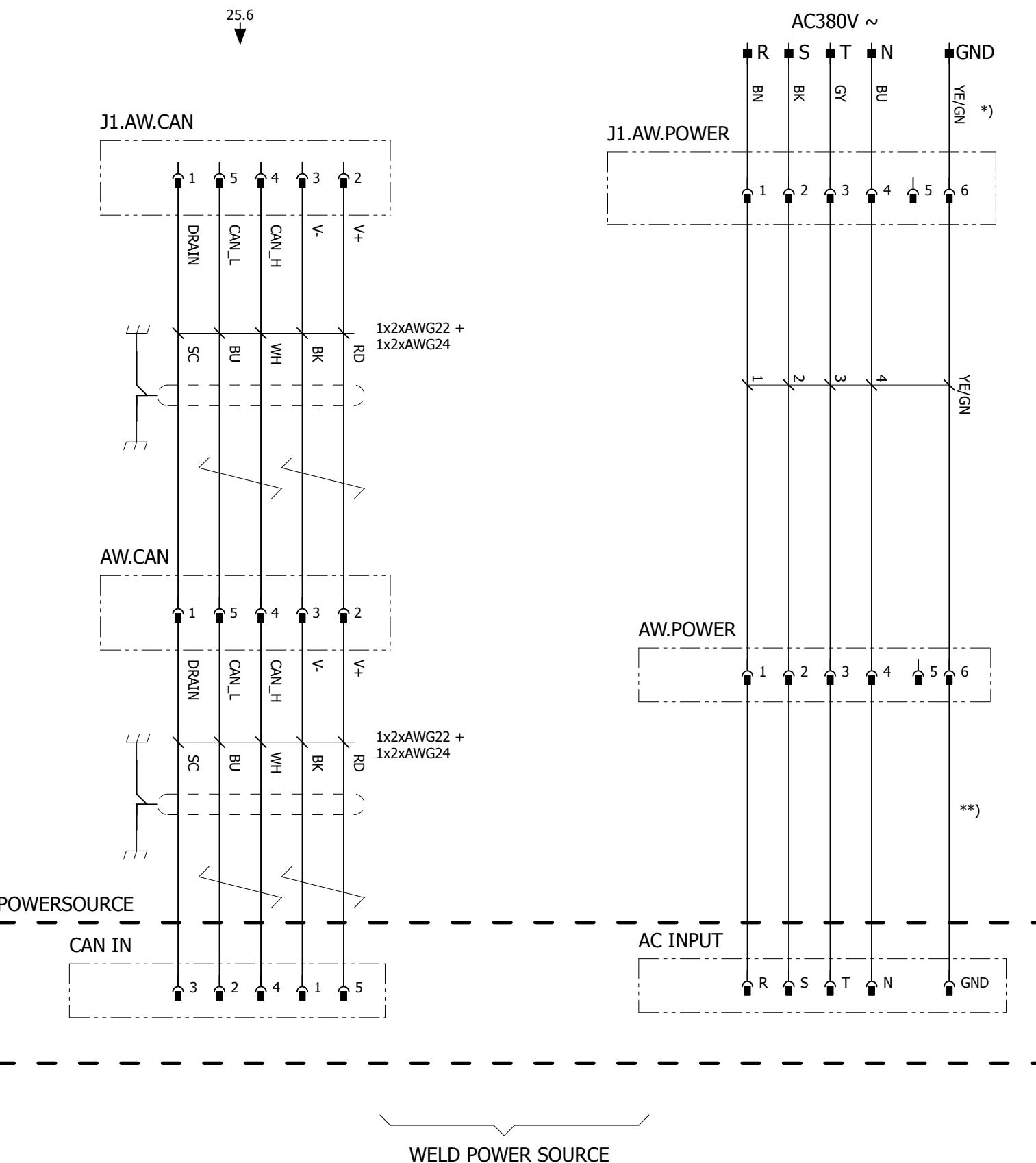
SEE EL.DRAWINGS FOR THE ROBOT CONTROL SYSTEM



SEE EL. DRAWINGS FOR THE IRB MANIPULATOR

SEE EL.DWGS FOR THE IRC5 CONTROLLER

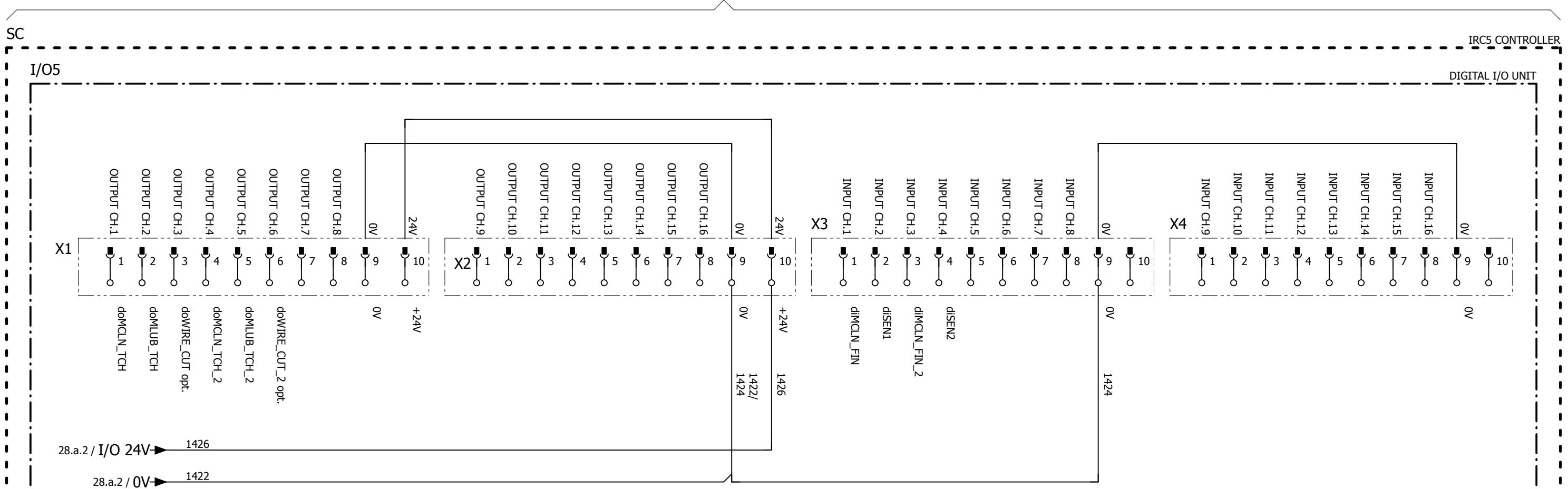




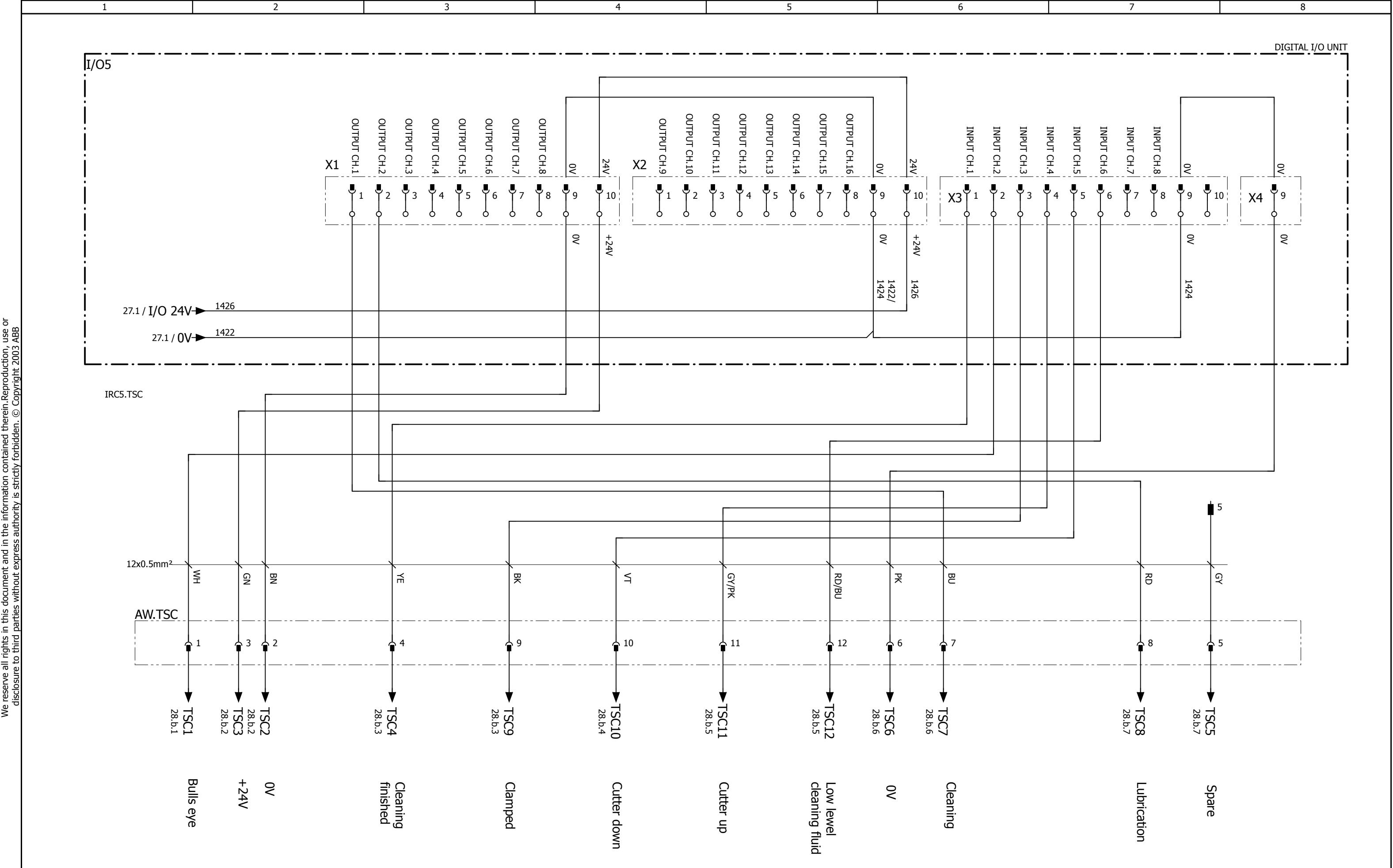
*) Floor welder power cable will be supplied from customer.

**) The power cable will be connected from power source.

SEE EL.DWGS FOR THE IRC5 CONTROLLER



PROCESS OPTIONS FOR TORCH CLEANER, TSC



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Medium Track Motion IRBT
2005 OPTION ARC WELDING
TORCH CLEANER TSC

Status:
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Plant:
Location:
Sublocation:

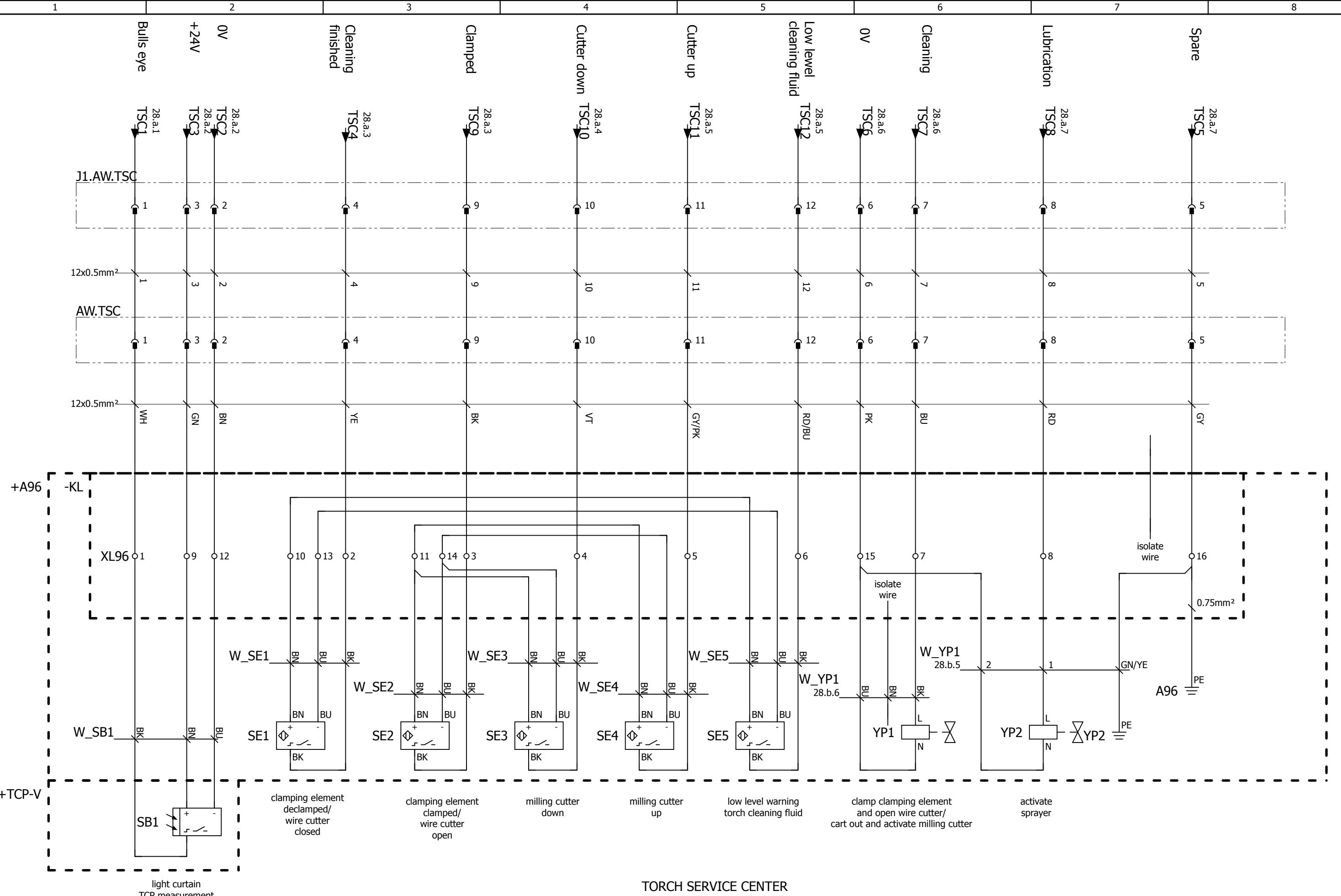
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TORCH SERVICE CENTER

Latest revision:



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2005 OPTION ARC WELDING
TORCH CLEANER TSC**

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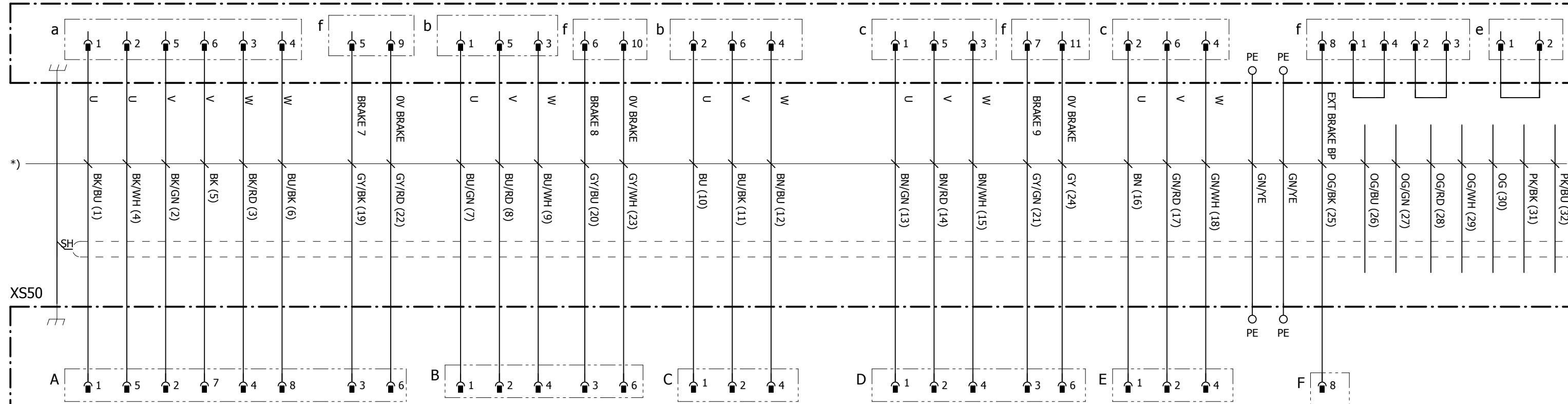
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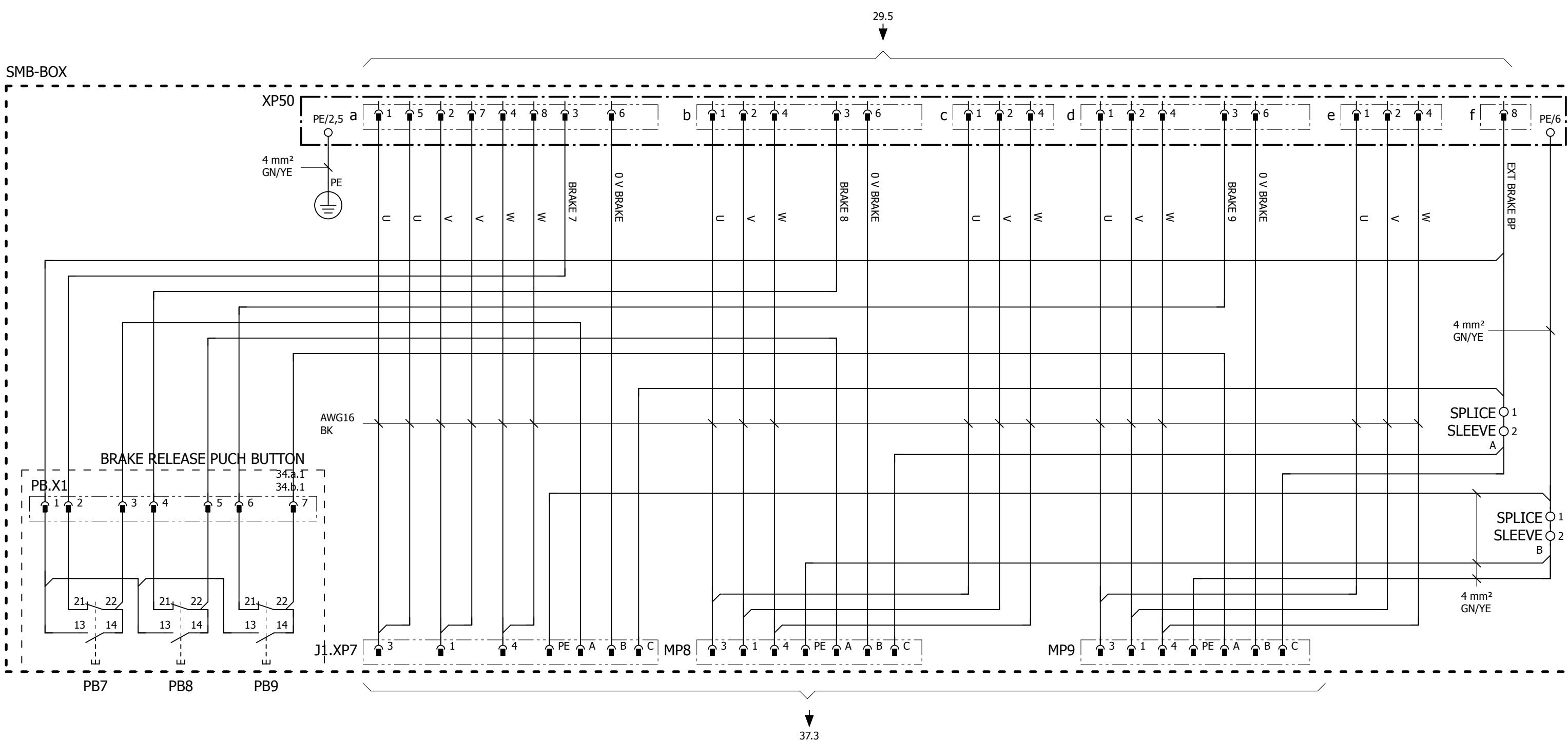
pproved by, date: F Legeleux, 2015-04-24

SEE EL.DWGS FOR EXT. AXIS-PAGE15,16,17

XP7



*) CABLE: 3x0.75mm² + 27x2.5mm² +
+ 2x4mm² + 2x6mm²



CONNECTED WITH AWG18 BU,
IF NO OTHER NOTATION

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Medium Track Motion IRBT 2005
MOTOR POWER SMB-BOX(3AXIS)

Status:
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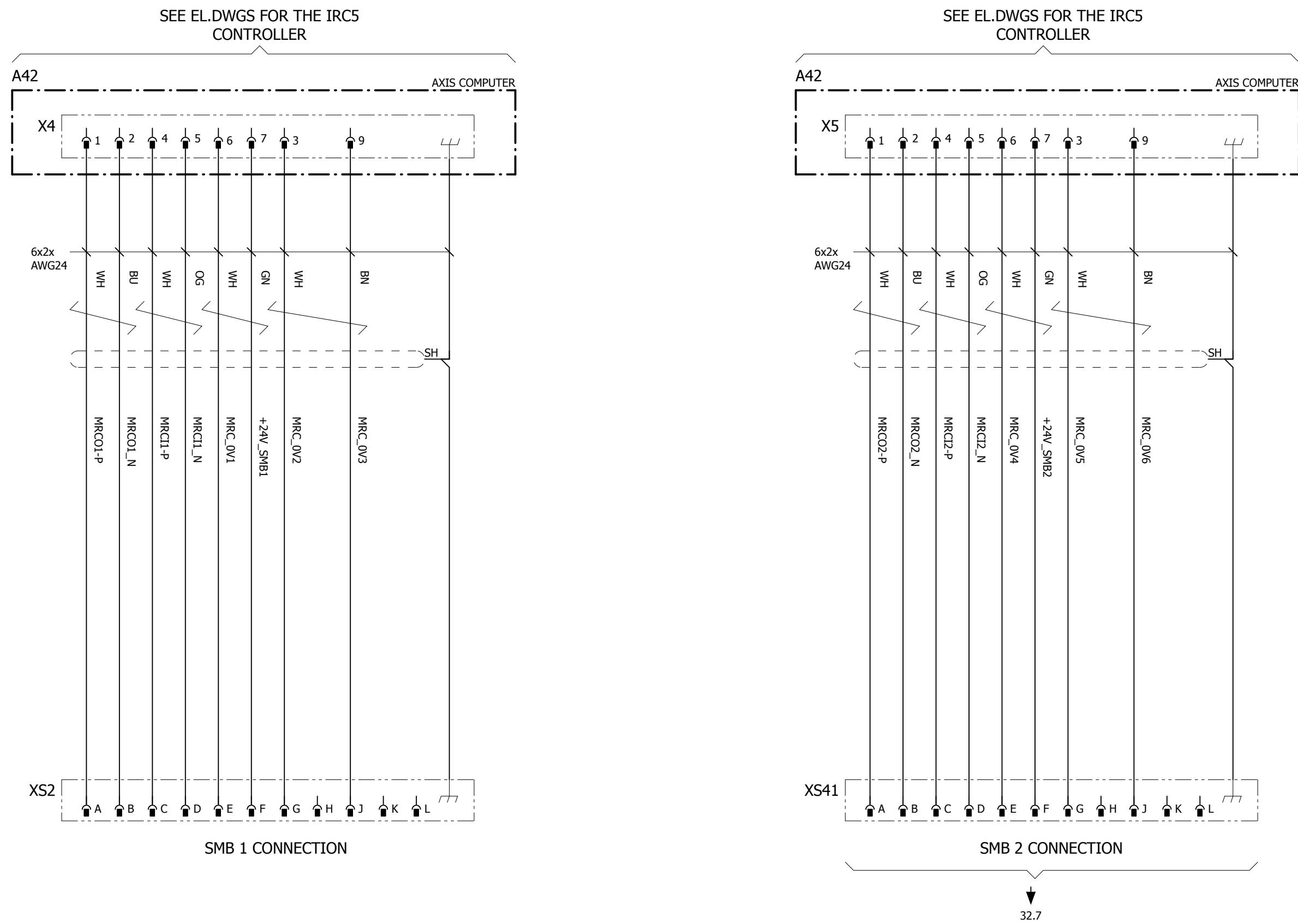
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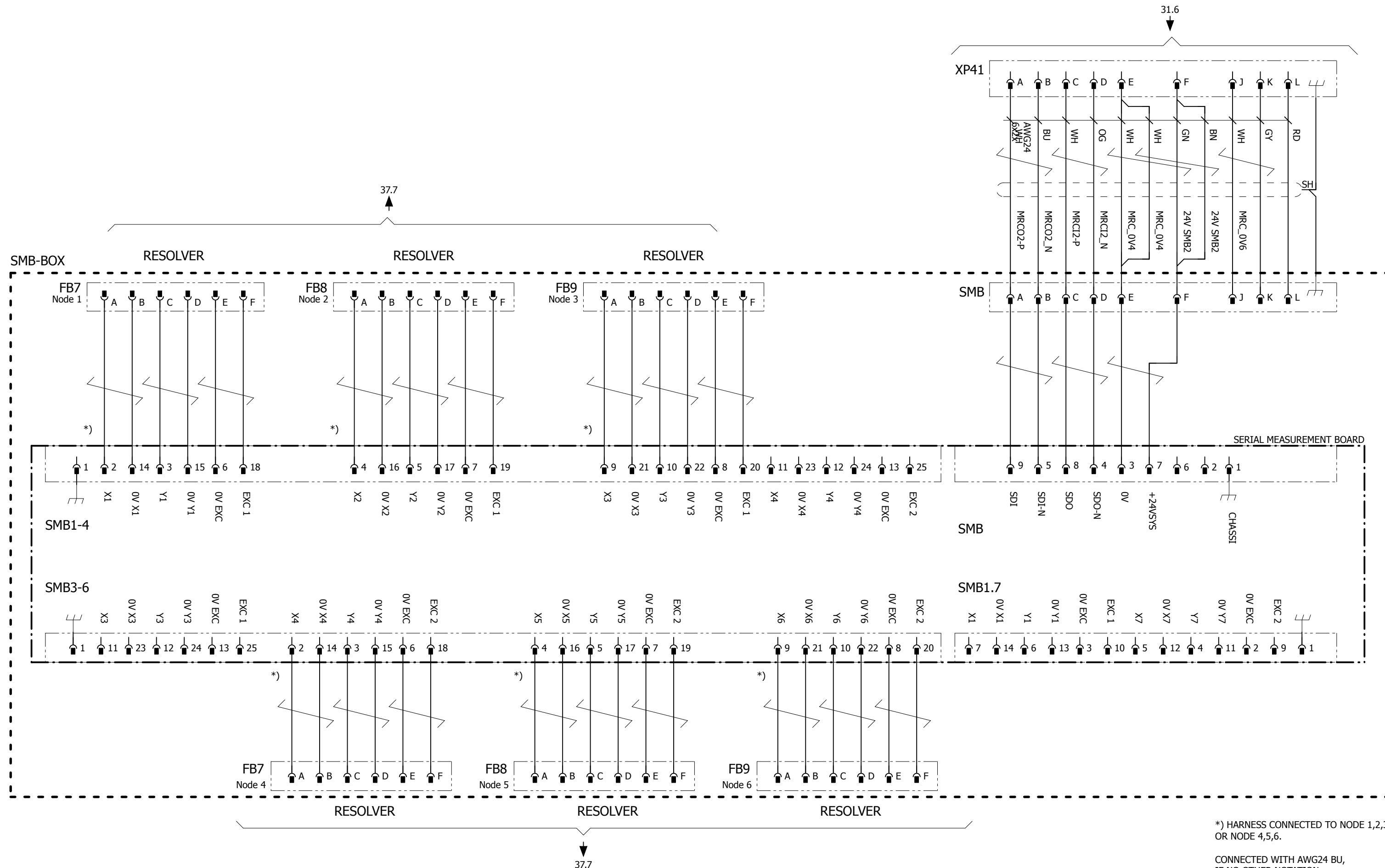
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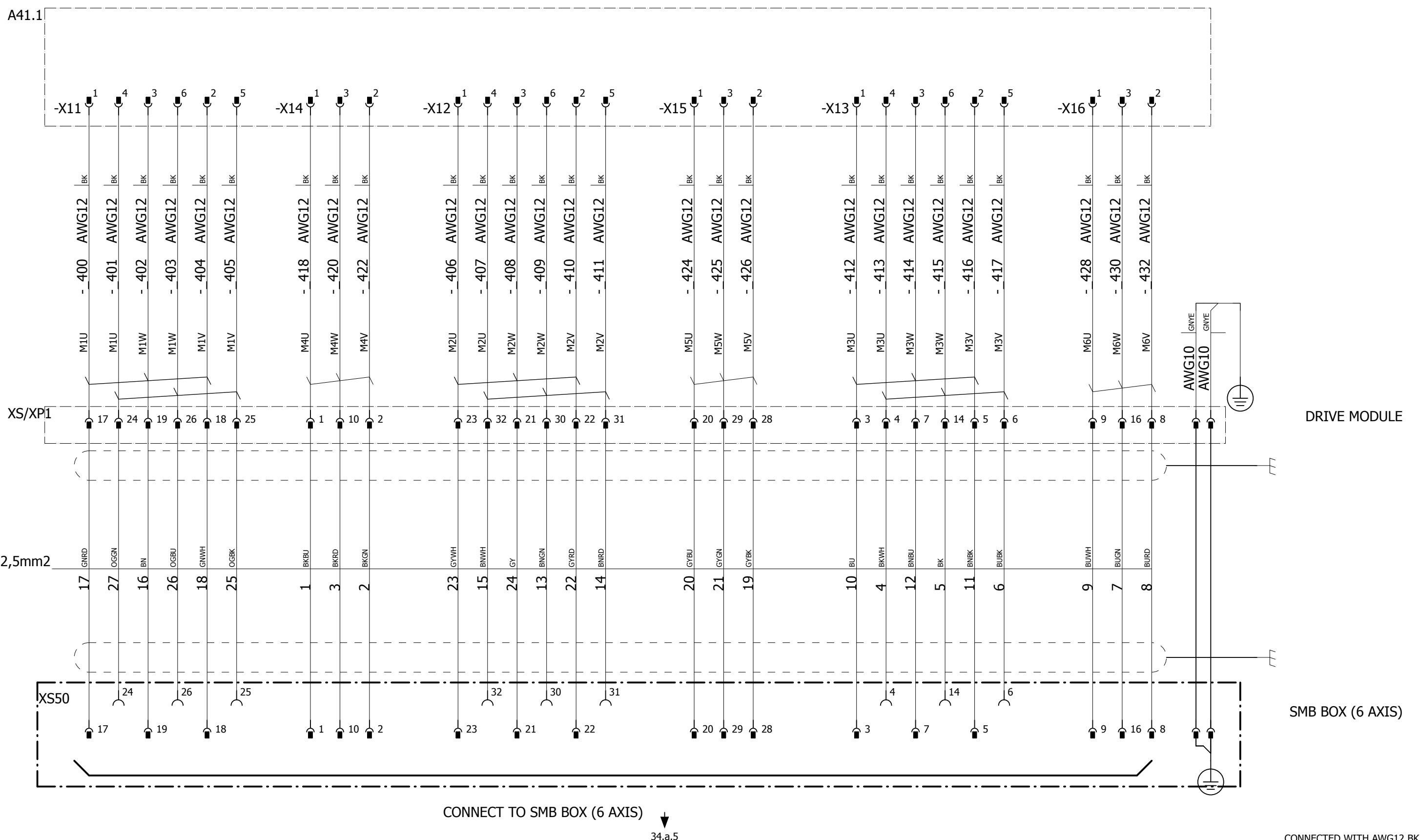
*) HARNESS CONNECTED TO NODE 1,2,3
OR NODE 4,5,6.

CONNECTED WITH AWG24 BU,
IF NO OTHER NOTATION

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			2005	SERIAL	MEASUREMENT	BOARD SMB-BOX(3AXIS)	Approved	Location:	+
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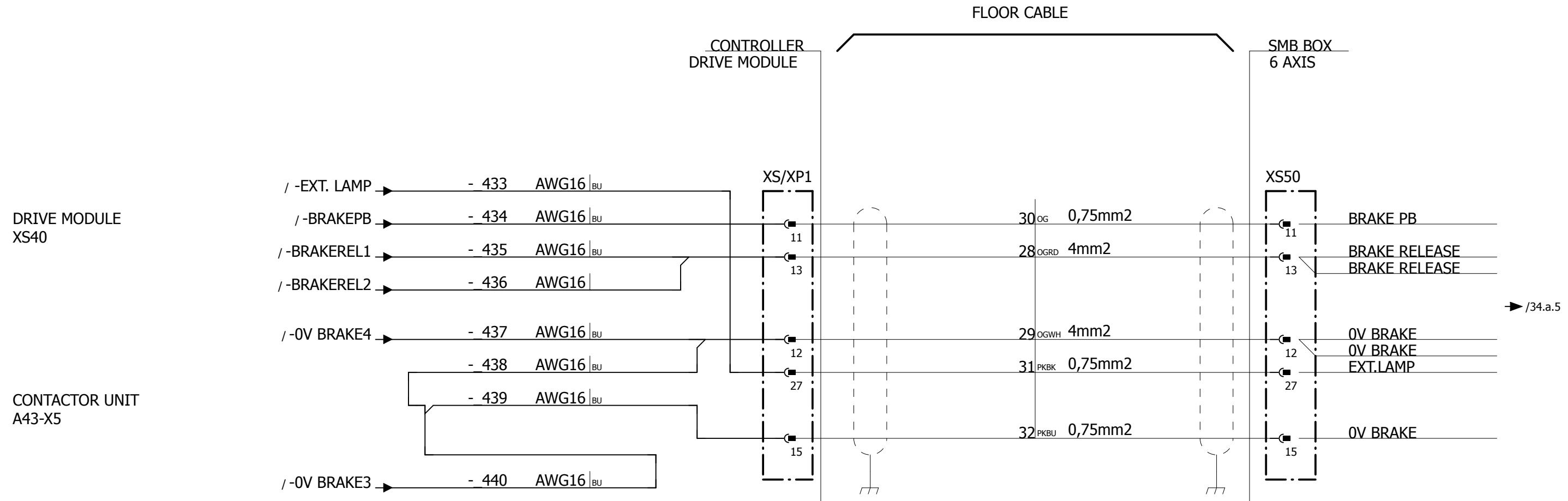
Cabinet module (Used for IRB2600/4600)

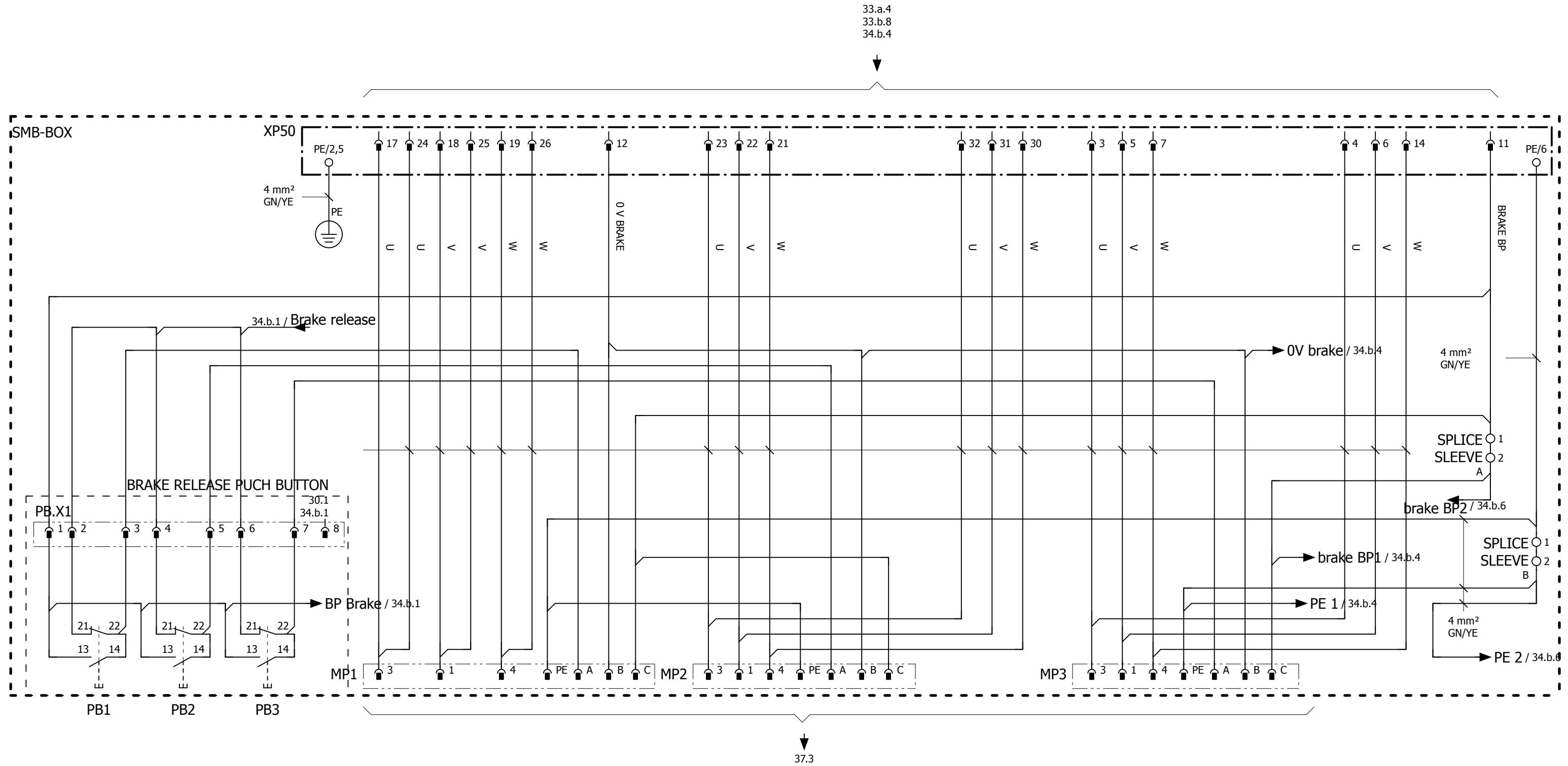
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CONNECTED WITH AWG12 BK,
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CONNECTED WITH AWG18 BU,
IF NO OTHER NOTATION

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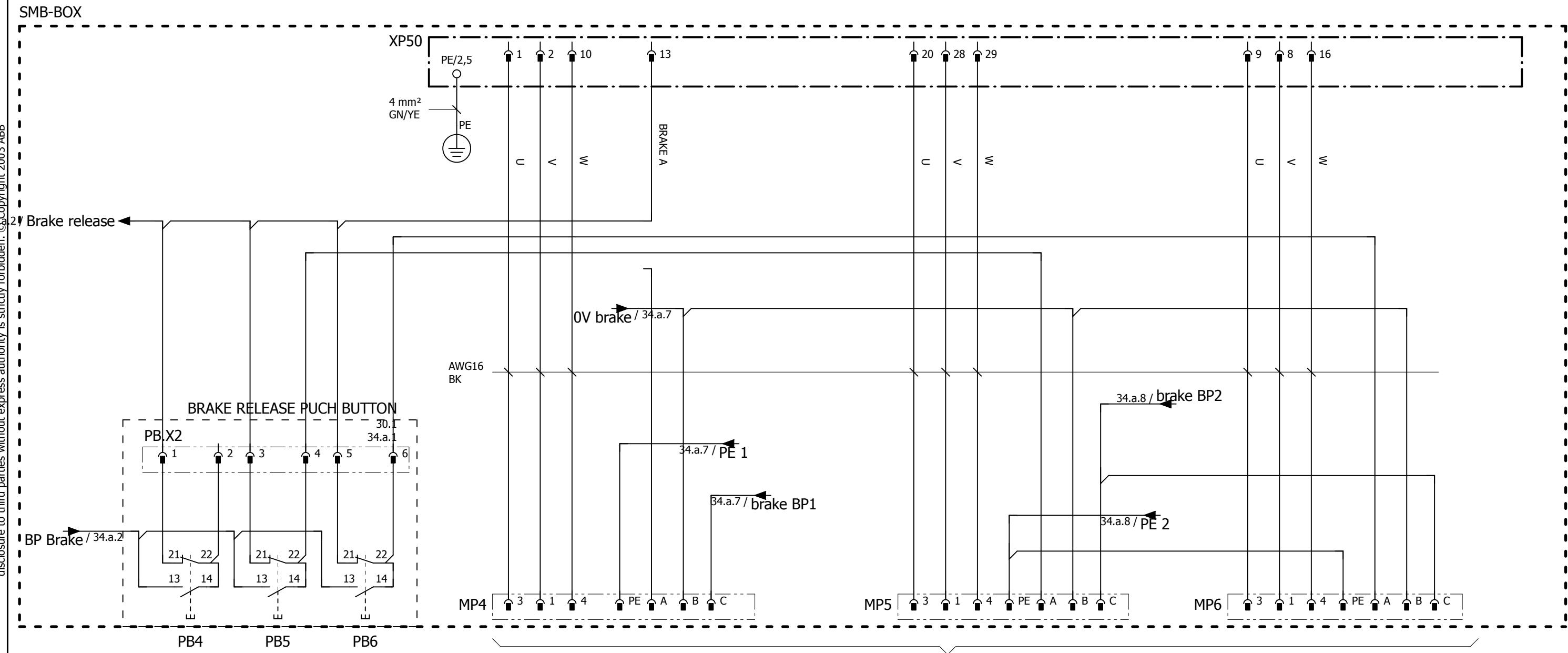


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Medium Track Motion IRBT 2005
MOTOR POWER SMB-BOX(6AXIS)

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37.3

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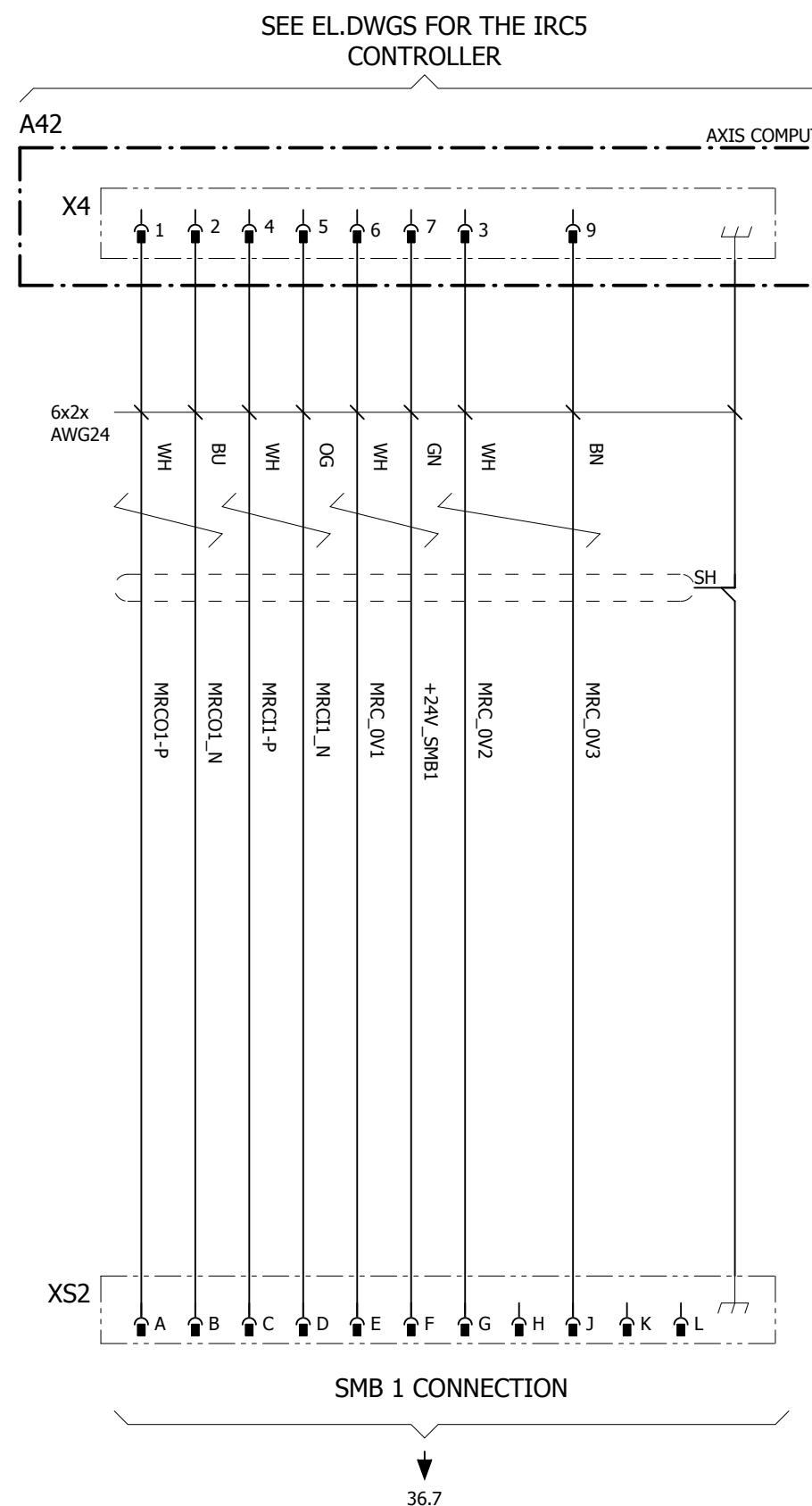


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Medium Track Motion IRBT 2005
MOTOR POWER SMB-BOX(6AXIS)

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Latest revision:



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Medium Track Motion IRBT
2005 MEASUREMENT SYSTEM 1
SMB-BOX(6AXIS)

Status:
Approved

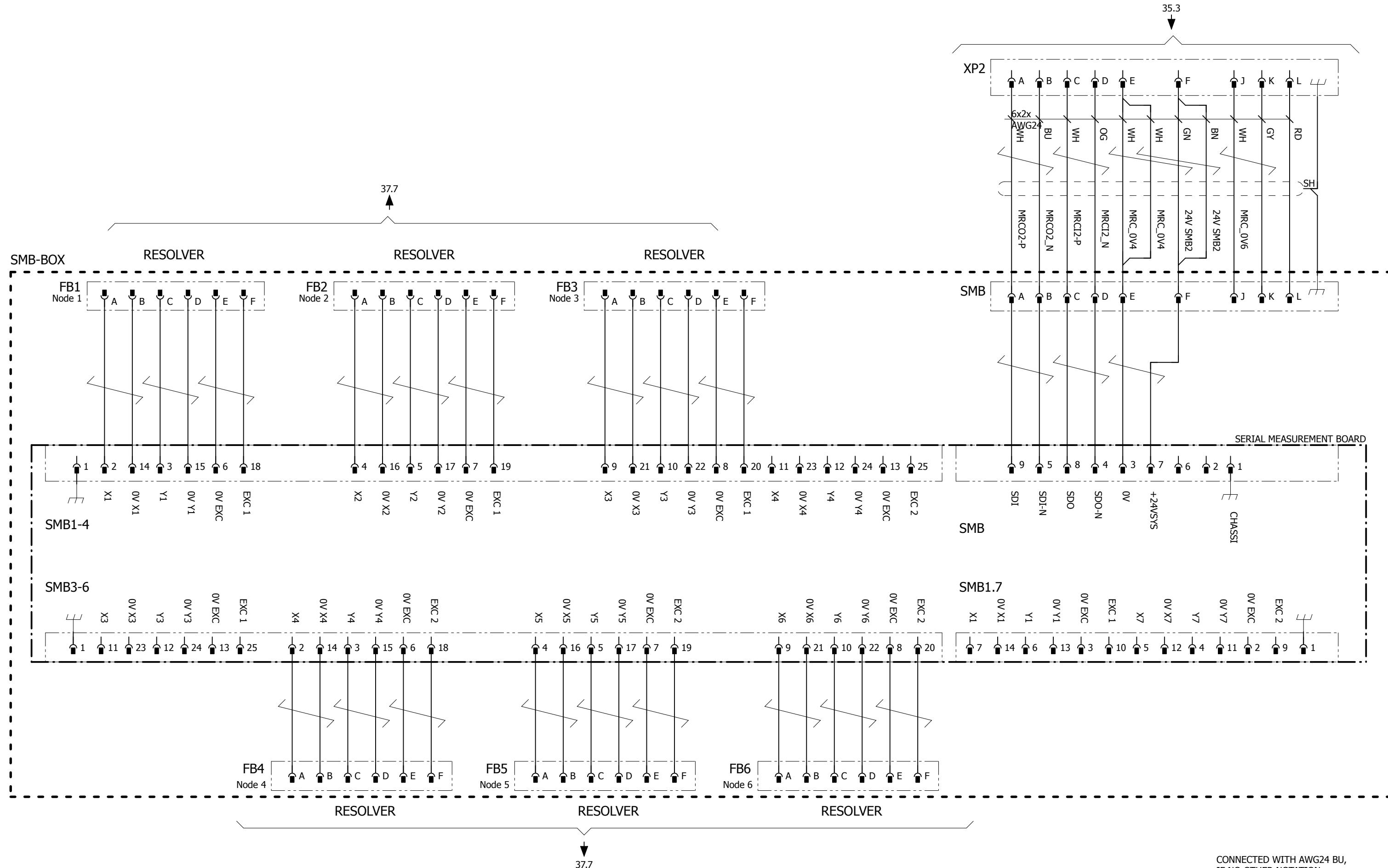
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Lab/Office:
DMRO/RM

Medium Track Motion IRBT
2005 SERIAL MEASUREMENT
BOARD SMB-BOX(6AXIS)

Status:
Approved

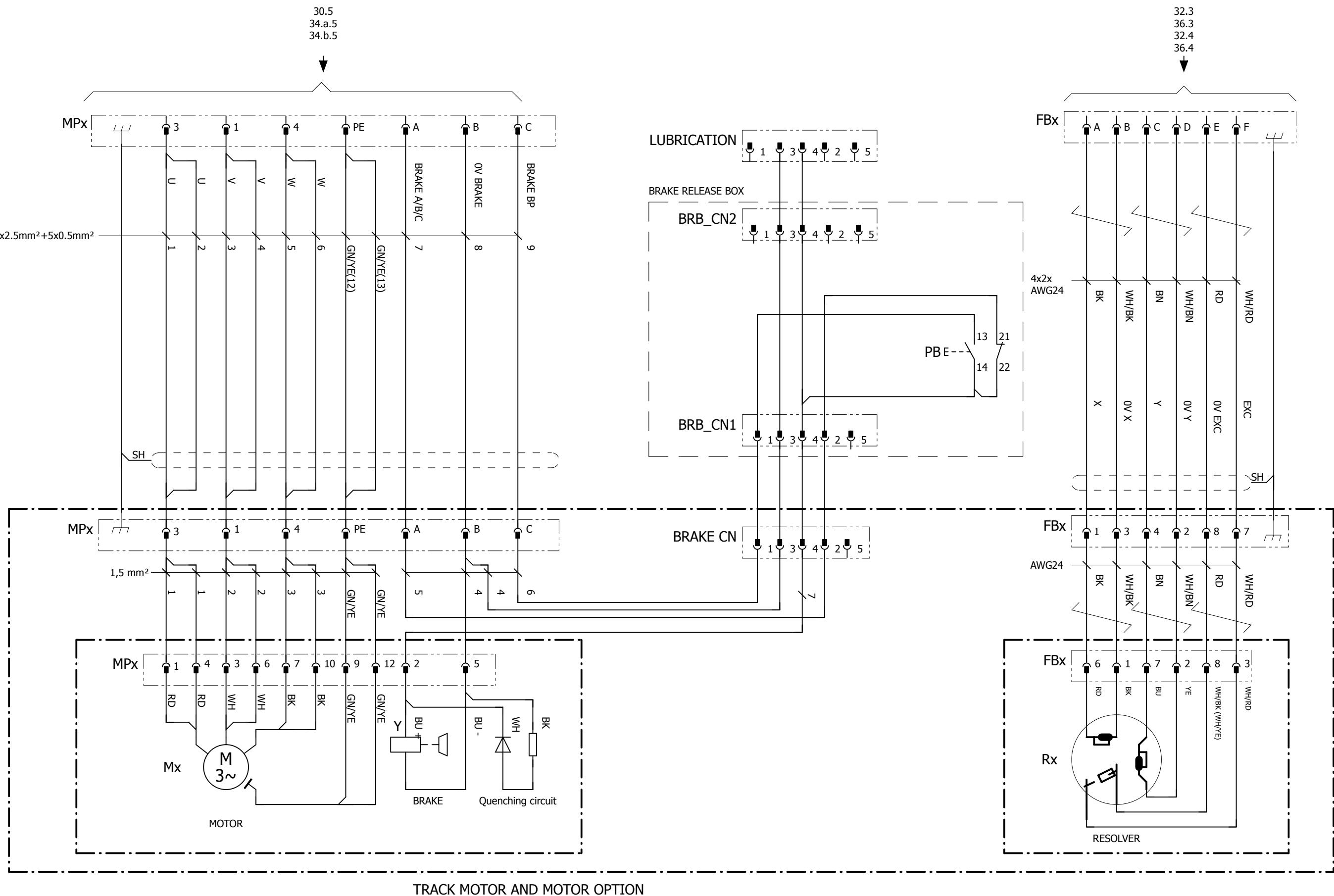
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TRACK MOTOR AND MOTOR OPTION

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