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Responsible Department: RATA - RD Design by: Yan Zhang		IRT 710			ABB COPYRIGHT	Status: Approved	=		
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Description : IRT 710
 Drawing number : 3HKA00000191004
 Drawing version : 002
 Date : 9/20/2024

Customer :
 Year of construction :

Drawn by : Yan ZHANG
 Number of pages : 33

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IRT 710	
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TITLE PAGE

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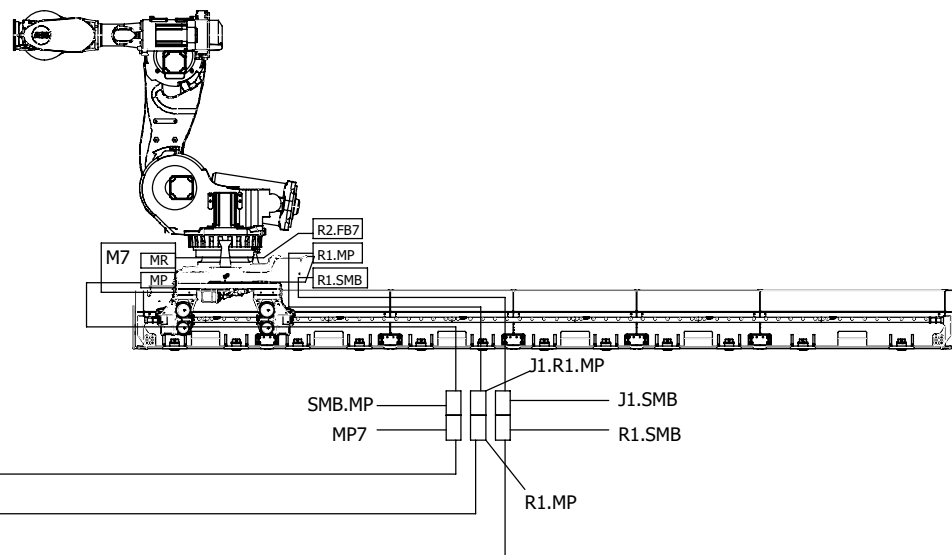
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Latest revision: ECN000379753			Lab/Office: IRT 710	Status: APPROVED	Plant: =
Prepared by, date: CNYAZHA48,2024-09-15	Approved by, date: CNFALEG,20240920		Table of contents : 1 - 33	Document no. 3HKA00000191004002	Location: + Sublocation: +
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IRC5



XS7	XP7
XS1	XP1
XS2	XP2



* SYSTEM CONFIGURATION

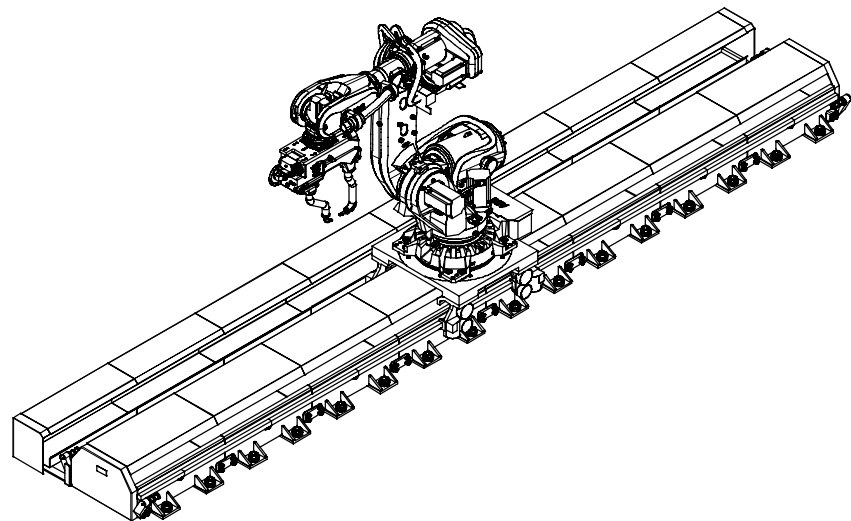
MOTOR No.	SMB NODE No.	UNIT
M7	7	IRB

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Responsible Department: RATY - RD		Design by: Yan Zhang		IRT 710		ABB	BLOCK DIAGRAM IRB SMB CONNECTION for IRB4600, 6620,6650s,6660,6700,660,760,7600		Status: Approved		=
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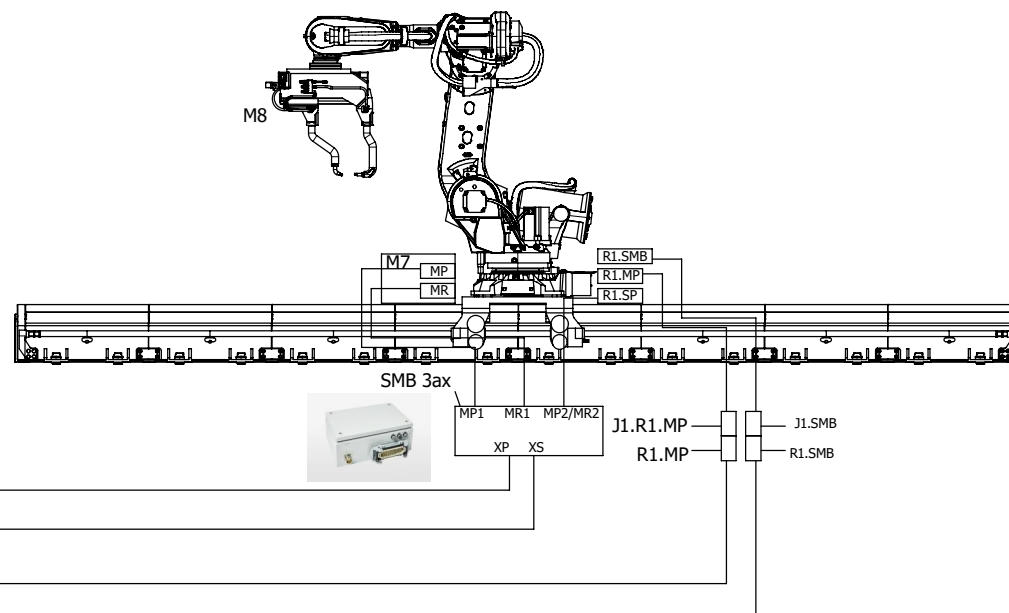


* SYSTEM CONFIGURATION

MOTOR No.	SMB NODE No.	UNIT
M7	7	SMB BOX
M8	7	IRB



XS7	X7
XS41	XP2/XP41
XS1	XP1
XS2	XP2



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BLOCK DIAGRAM CONNECTION
for IRB6620, 6650S, 6660,
6700, 7600 (spot welding)

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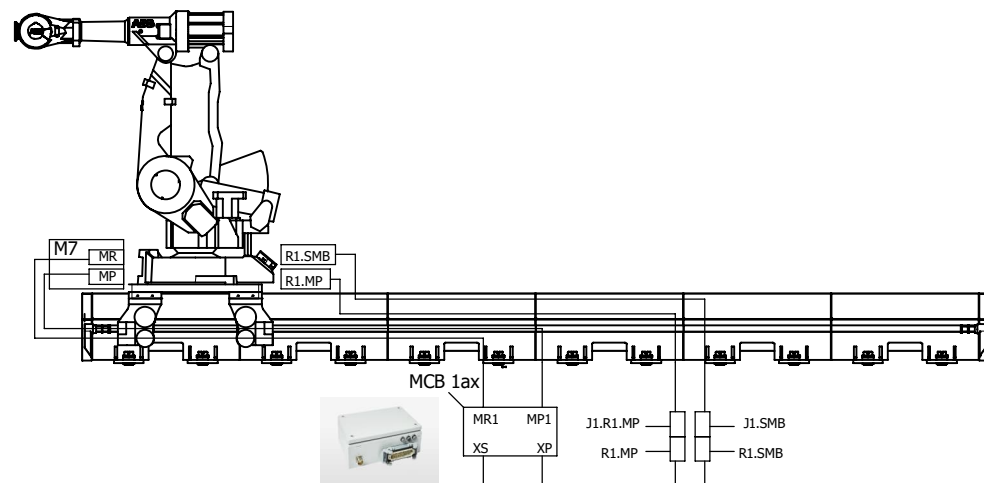
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MOTOR No.	SMB NODE No.	UNIT
M7	7	SMB BOX



IRC5

XS41	XP2/XP41
XS7	XP7
XS1	XP1
XS2	XP2



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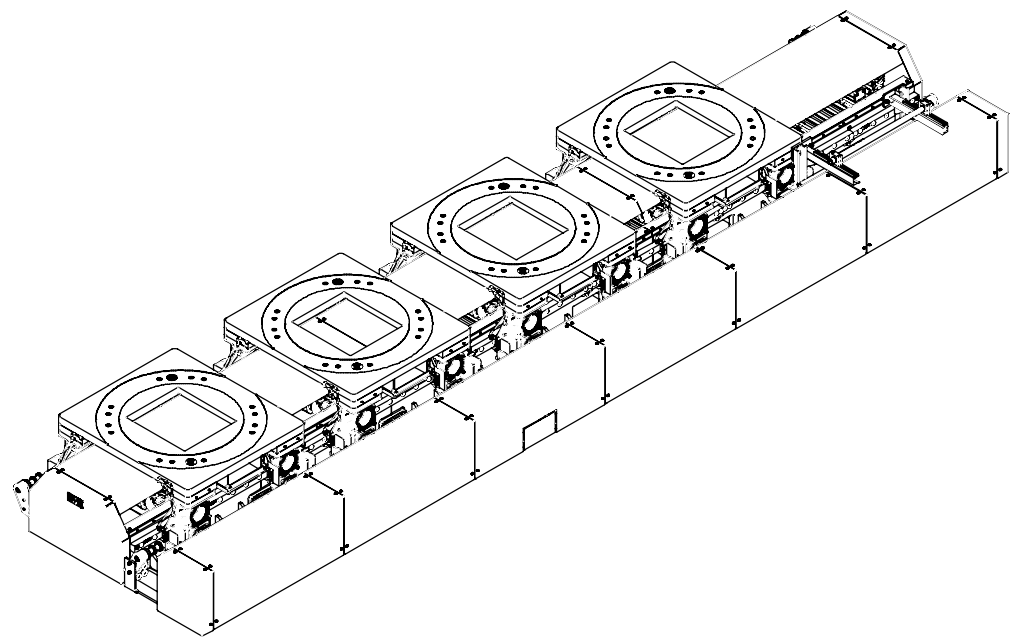
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BLOCK DIAGRAM
IRT SMB BOX CONNECTION IRB4400
IRB460

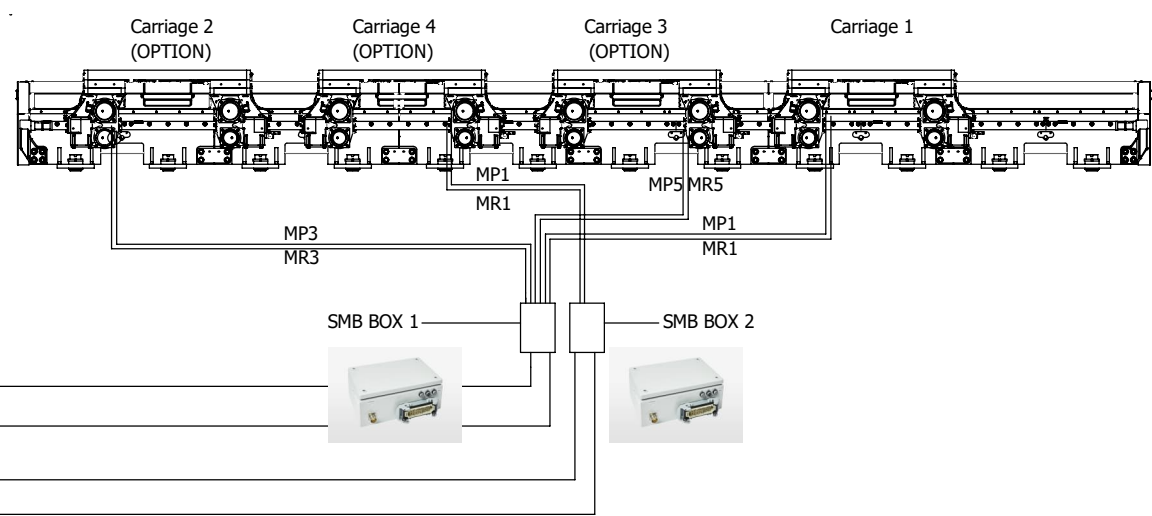
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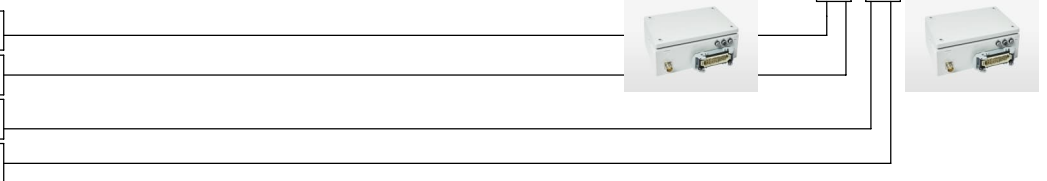
* SYSTEM CONFIGURATION

MOTOR No.	SMB NODE No.	UNIT
M1	1	SMB BOX 1
M2(OPTION)	3	SMB BOX 1
M3(OPTION)	5	SMB BOX 1
M4(OPTION)	7	SMB BOX 2



IRC5

XS1	XP1
XS2	XP2
XS7	XP7
XS41	XP41



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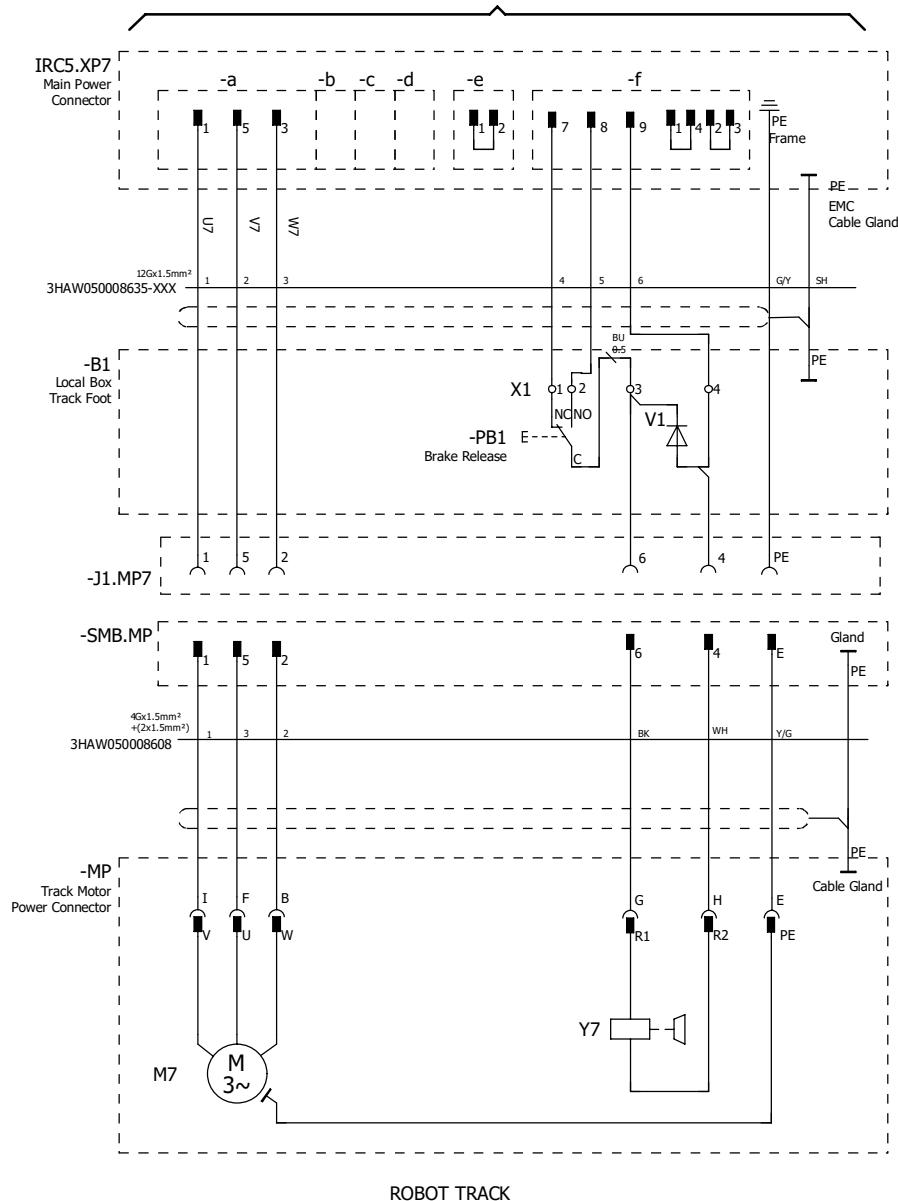
BLOCK DIAGRAM
IRT SMB BOX CONNECTION TRANSFER
CARRIAGE

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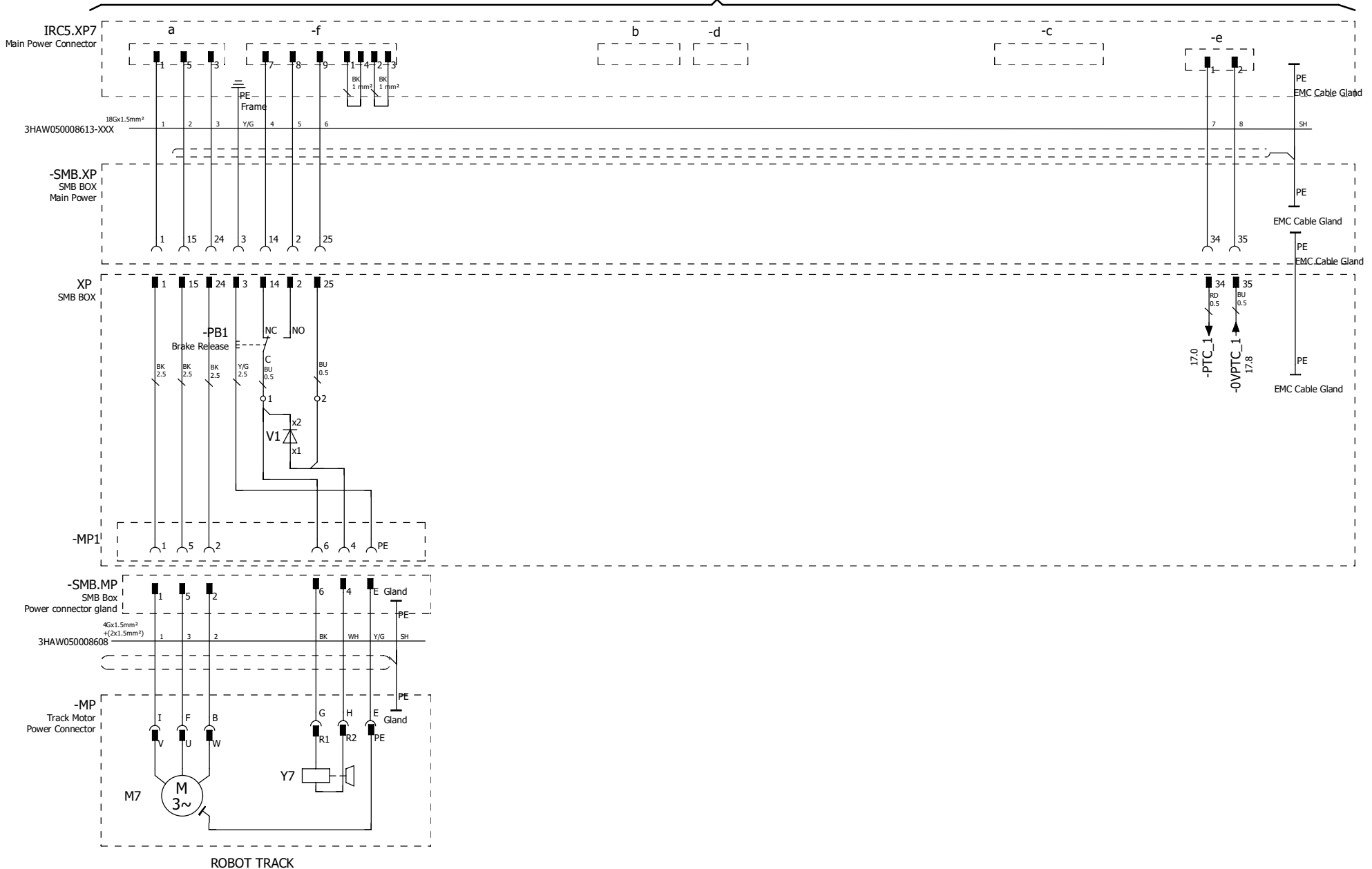
MOTOR IRT, IRB4600/660/
6620/6650S/6660/6700/760/7600

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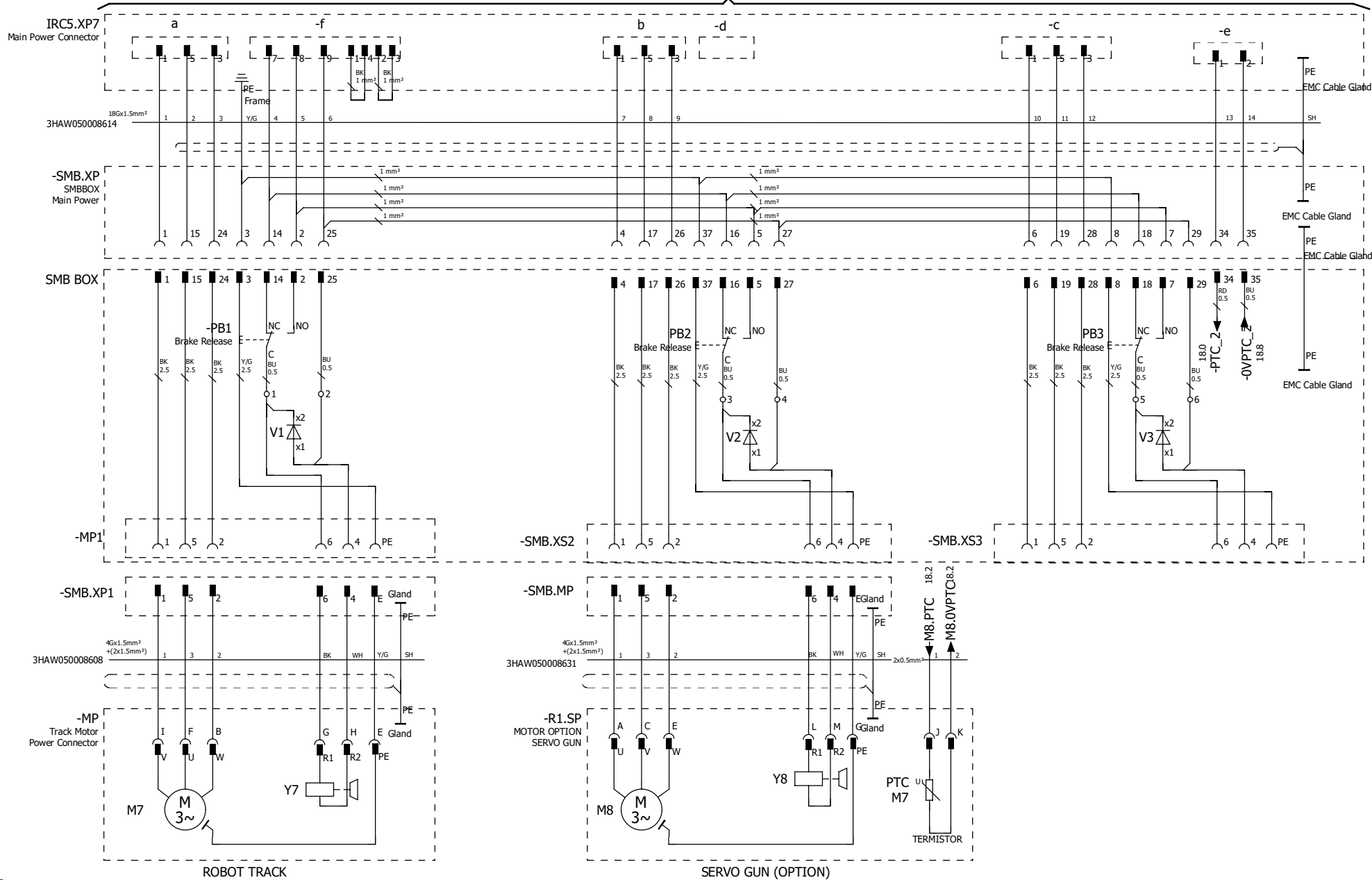
ROBOT TRACK

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ROBOT TRACK

SERVO GUN (OPTION)

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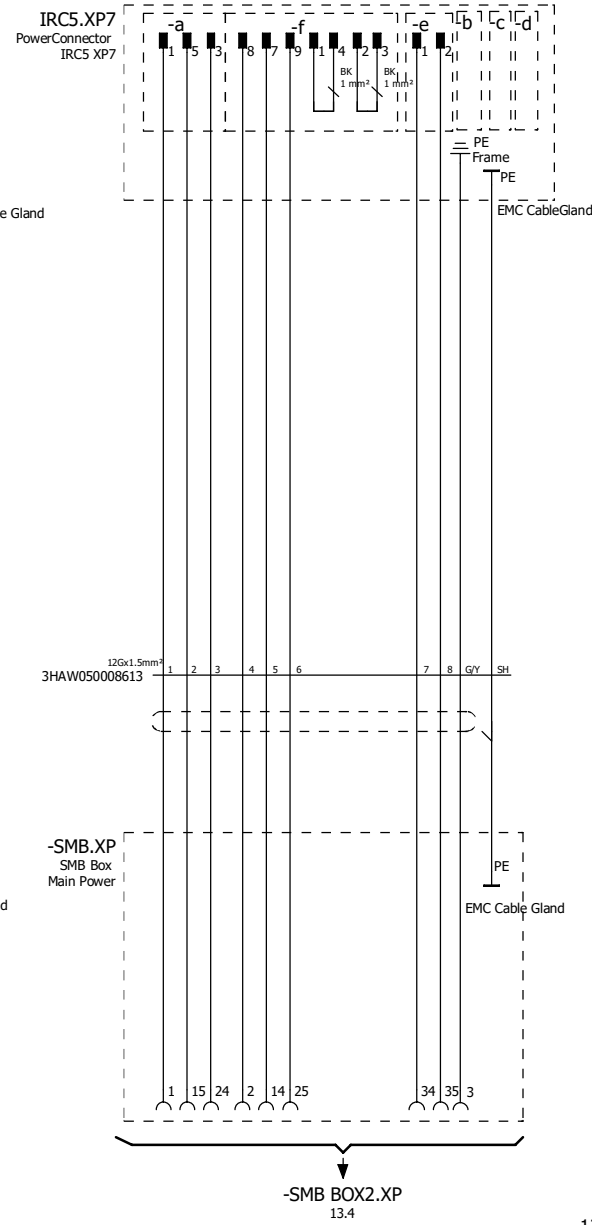
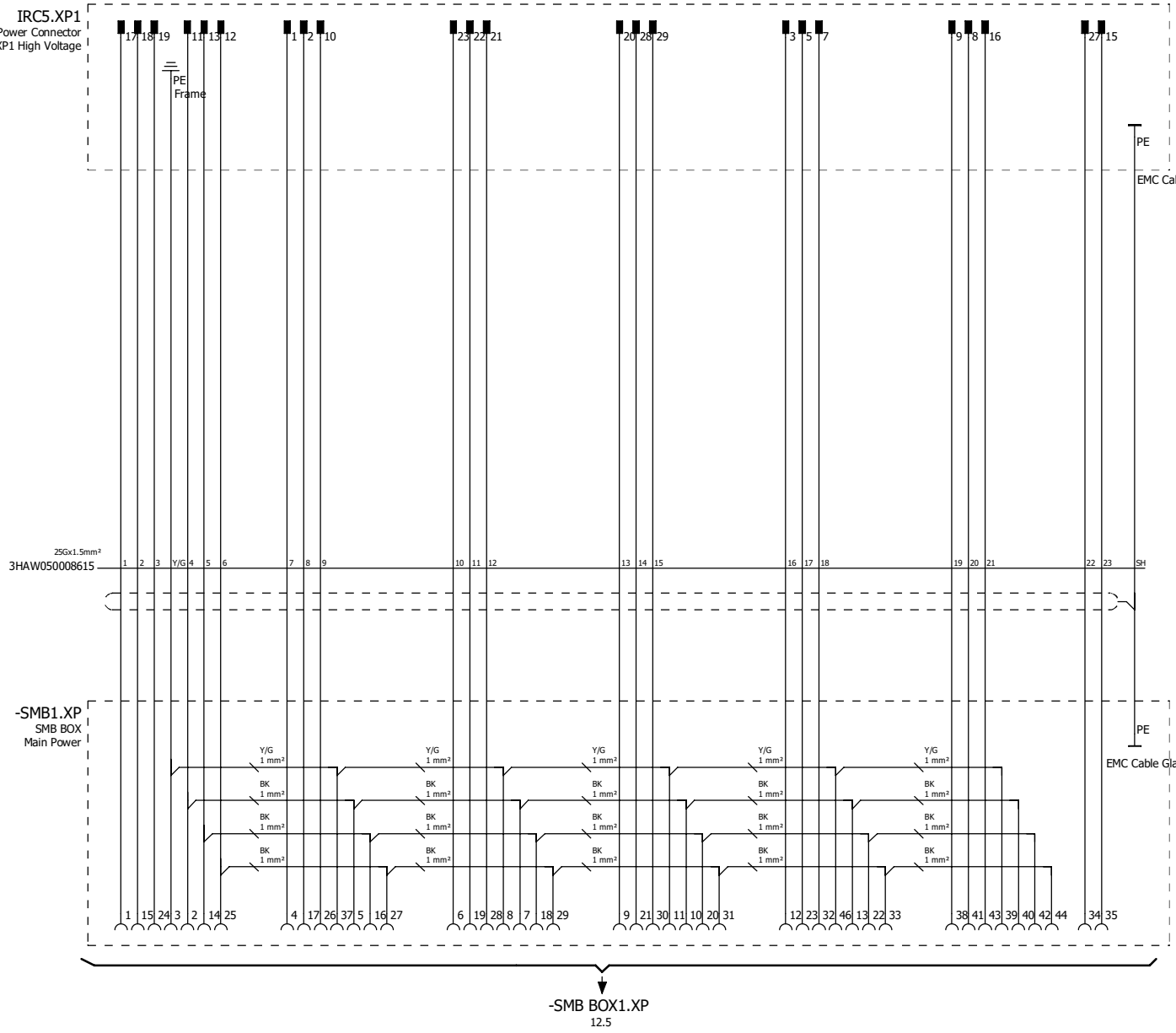
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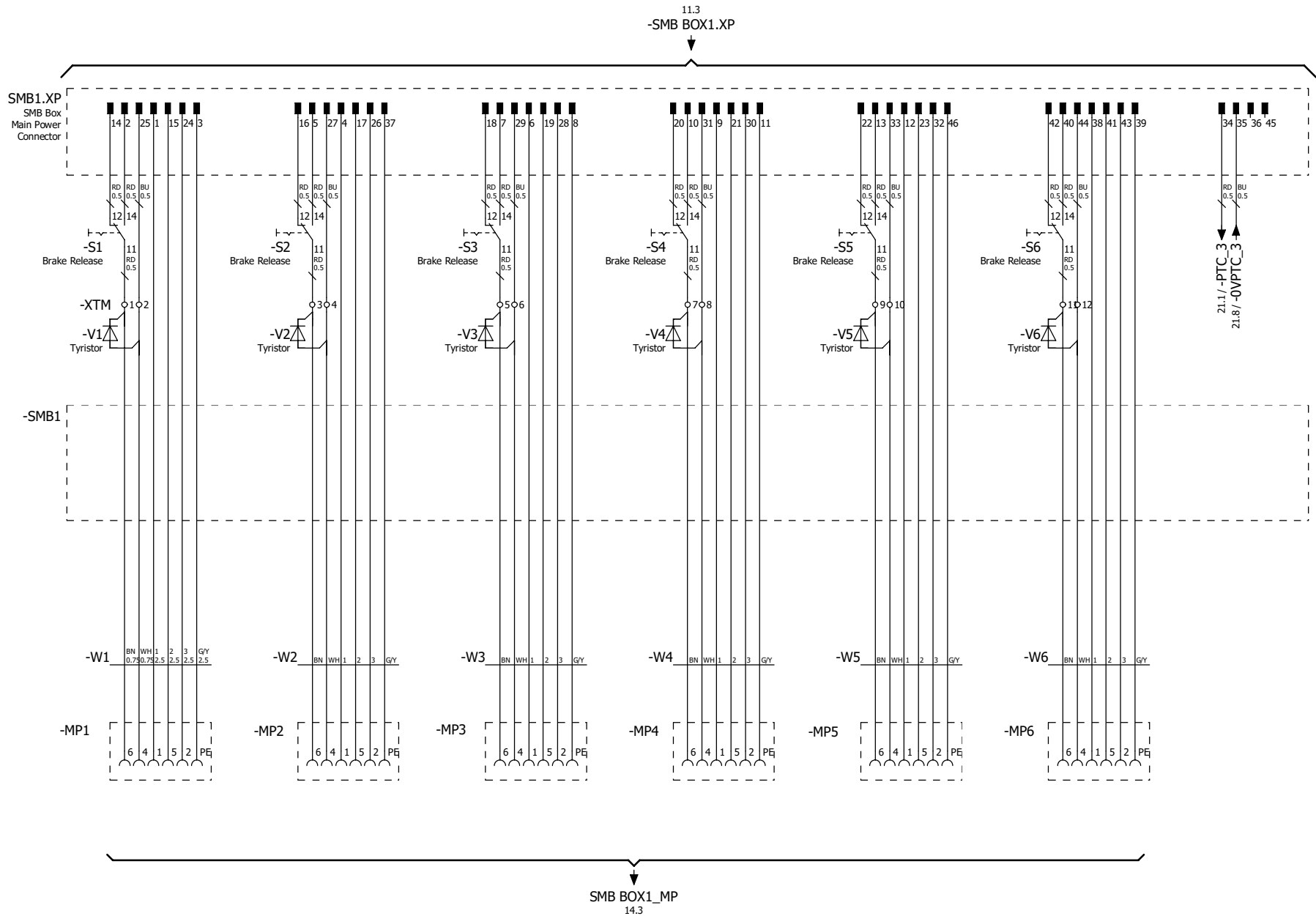
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MOTOR IRT, TRANSFER CARRIAGE
STATIC CABLE

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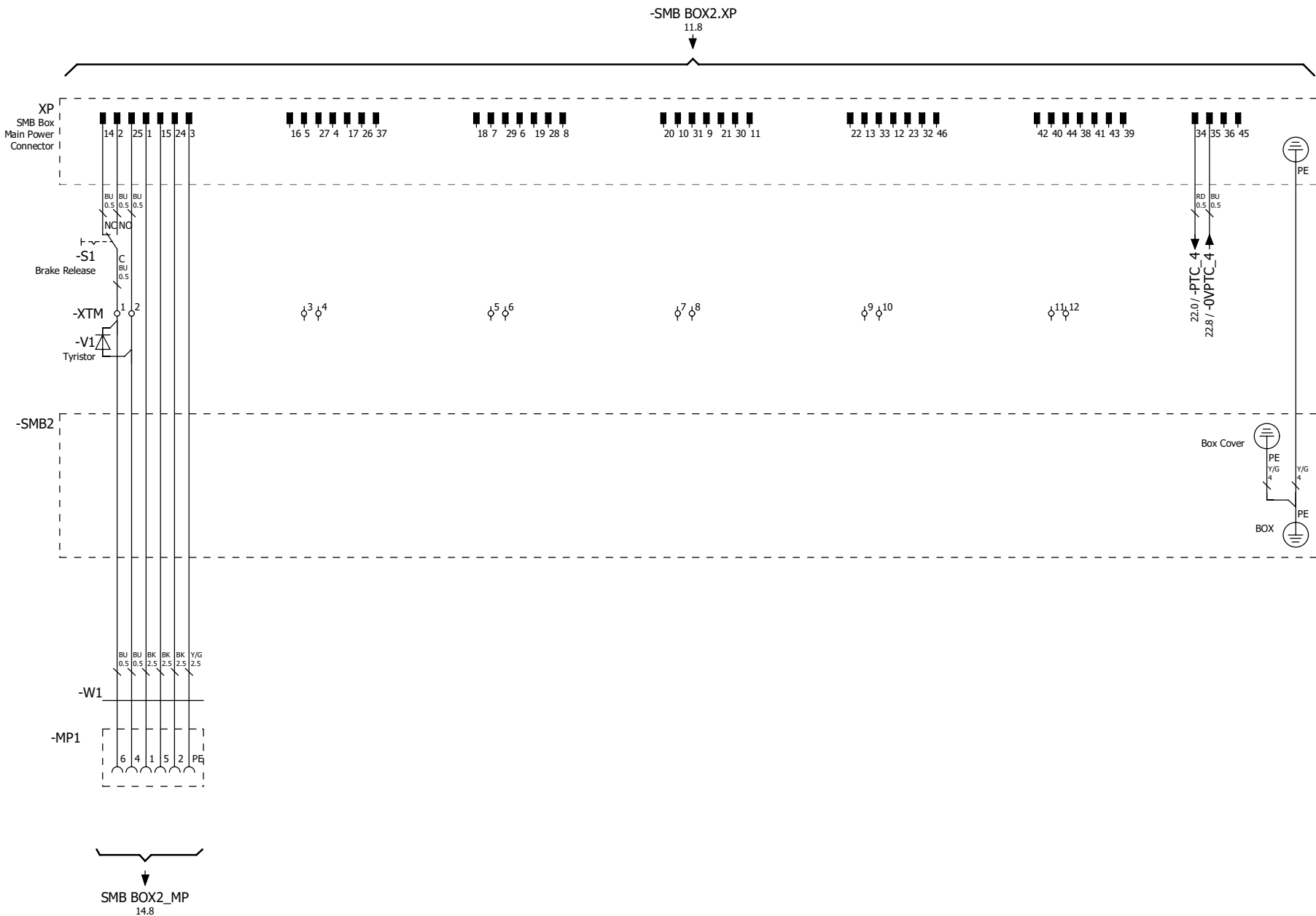


MOTOR IRT, TRANSFER CARRIAGE SMB
1(6 Axes)

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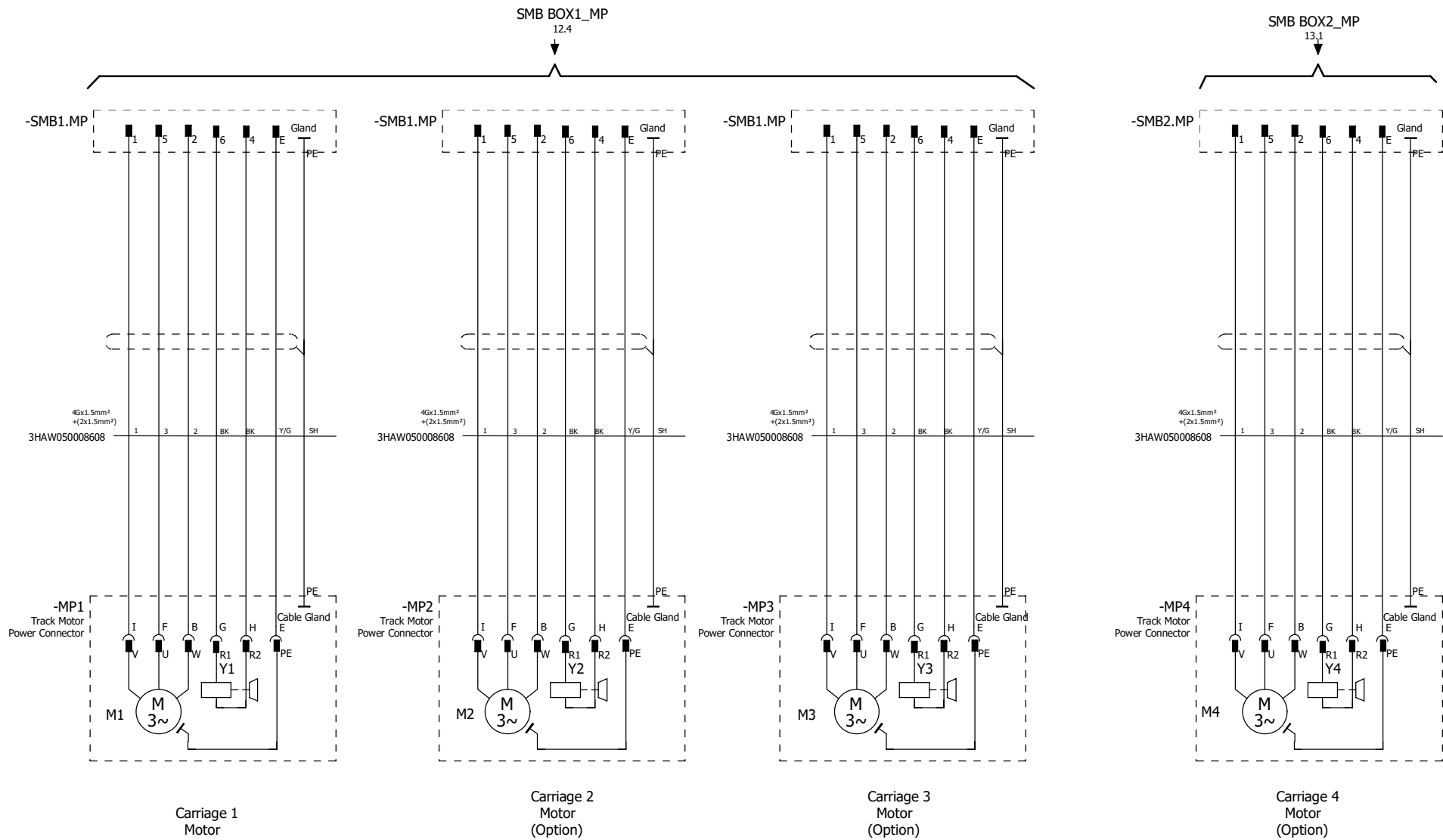


MOTOR IRT, TRANSFER CARRIAGE SMB
2(1 Axes)

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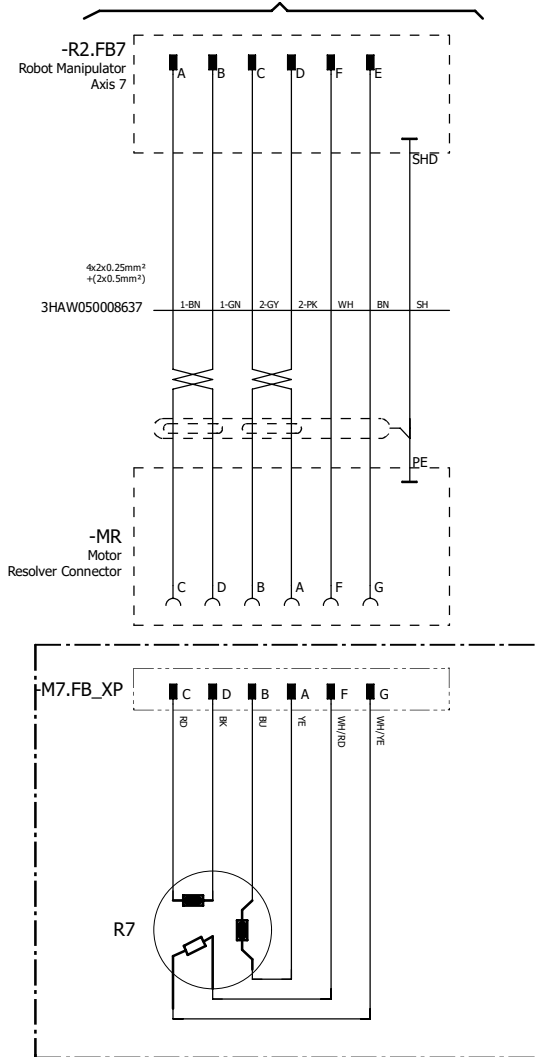
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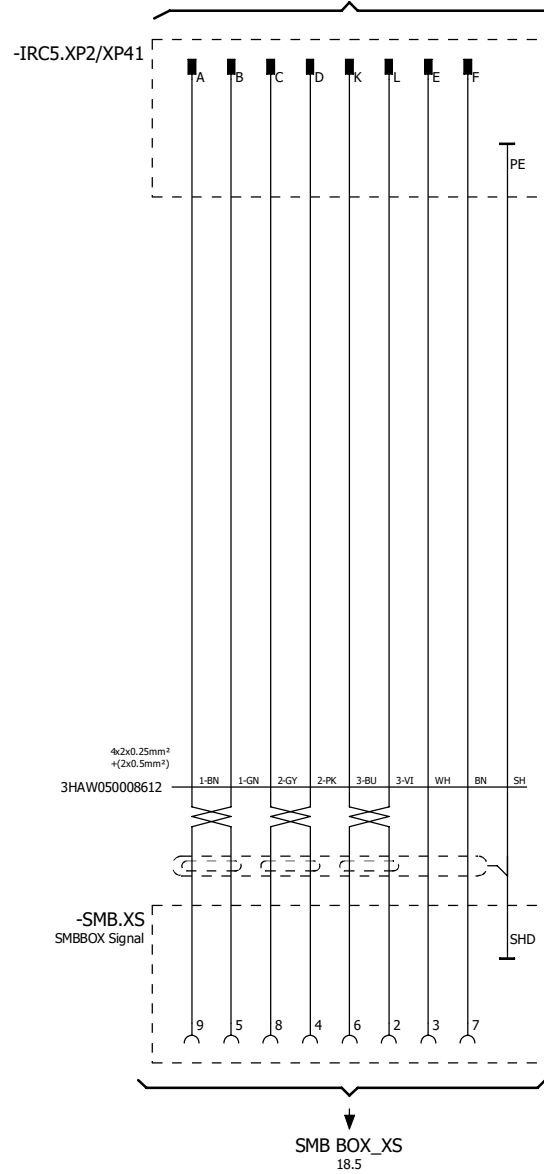


MOTOR RESOLVER,
IRB46x0/6xx0/760/7600

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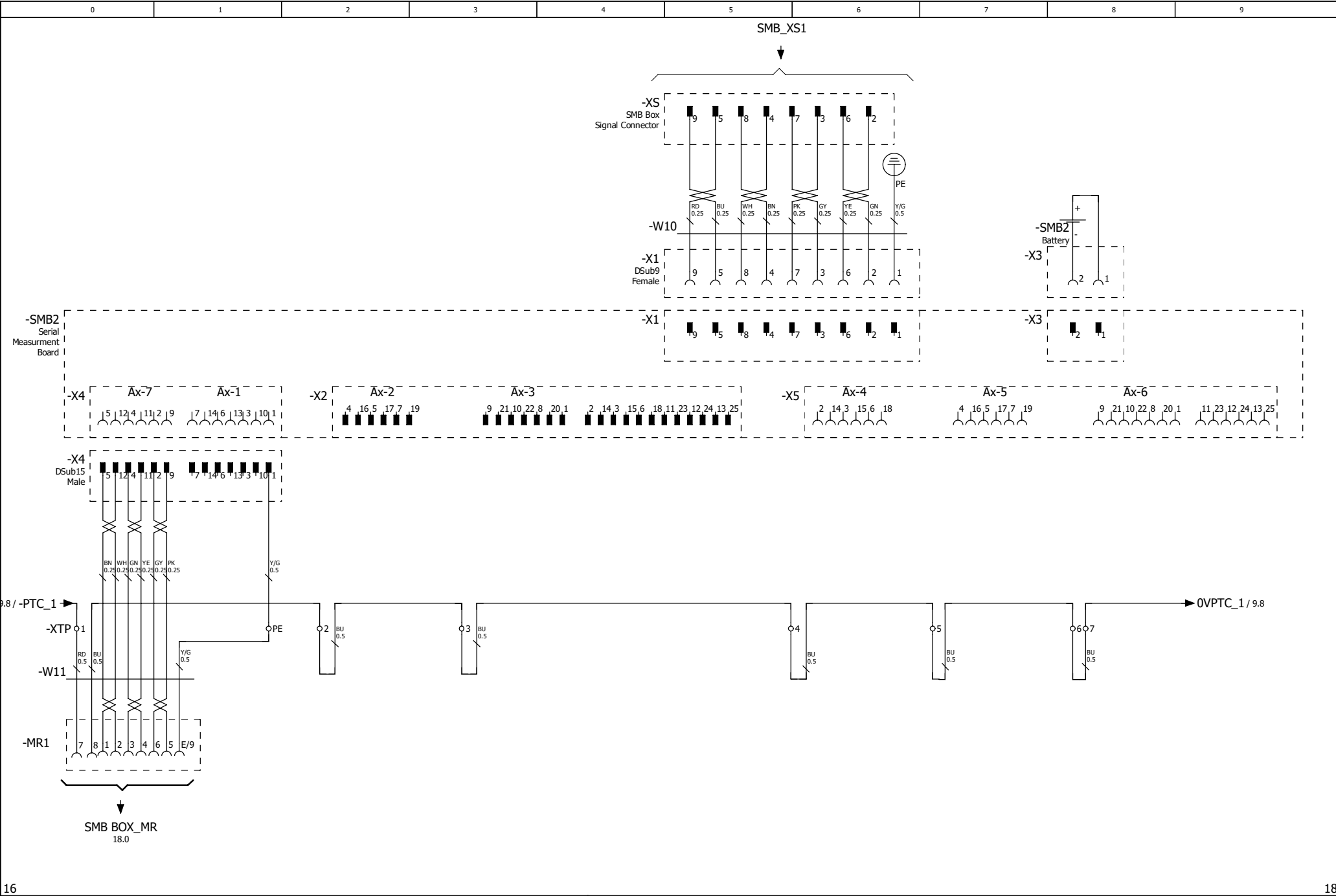


MOTOR RESOLVER STATIC CABLE

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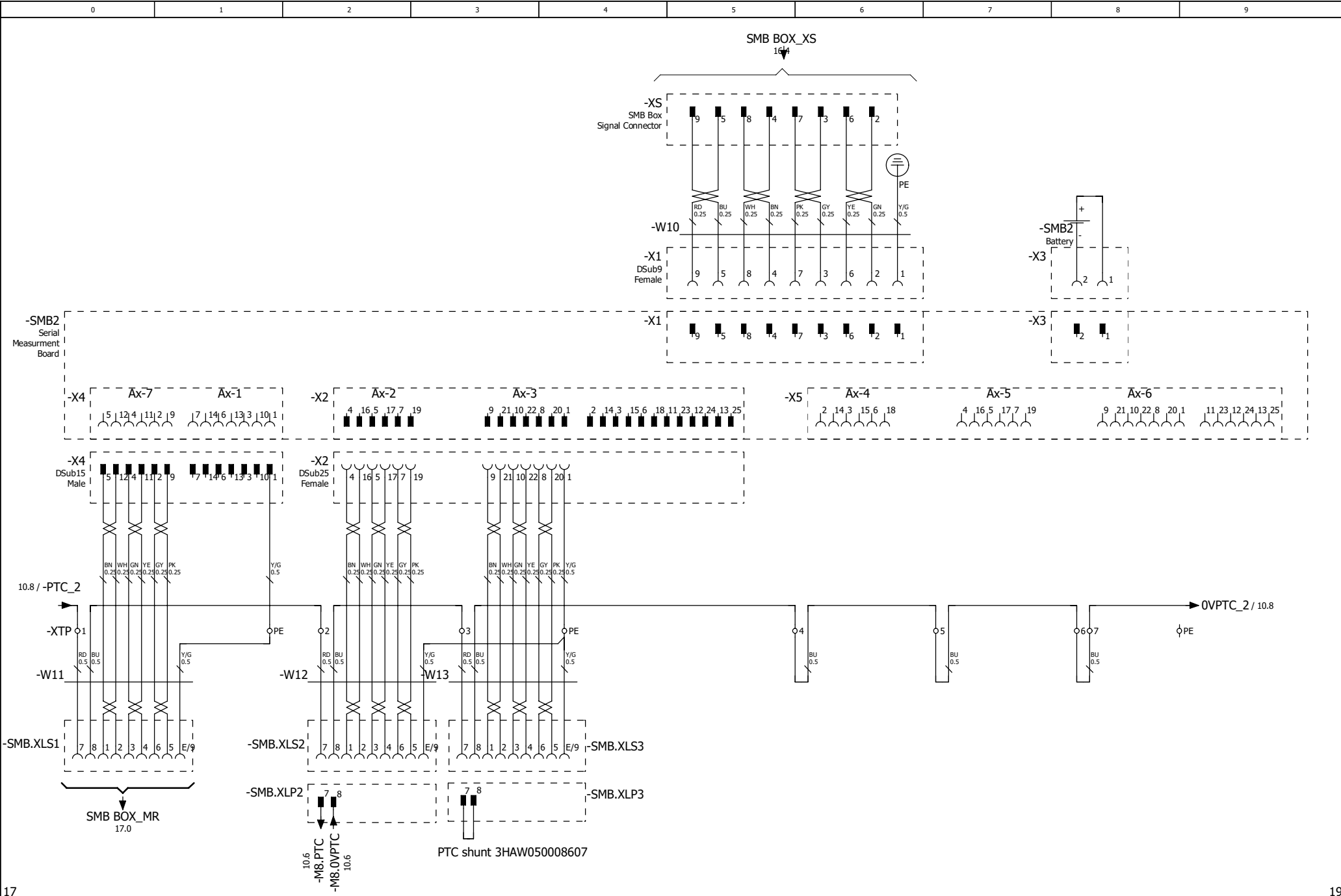
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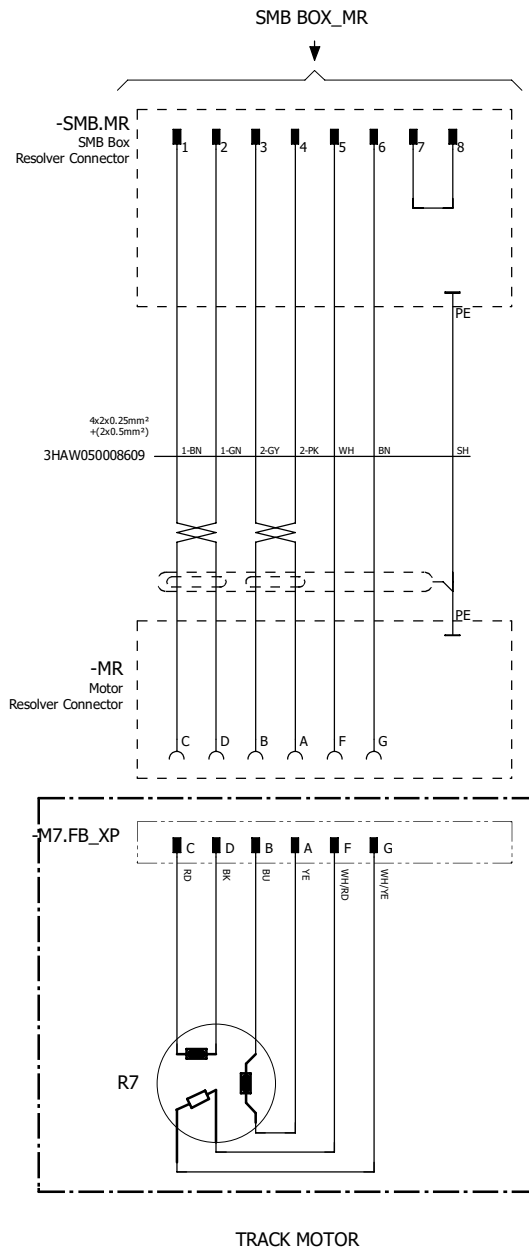
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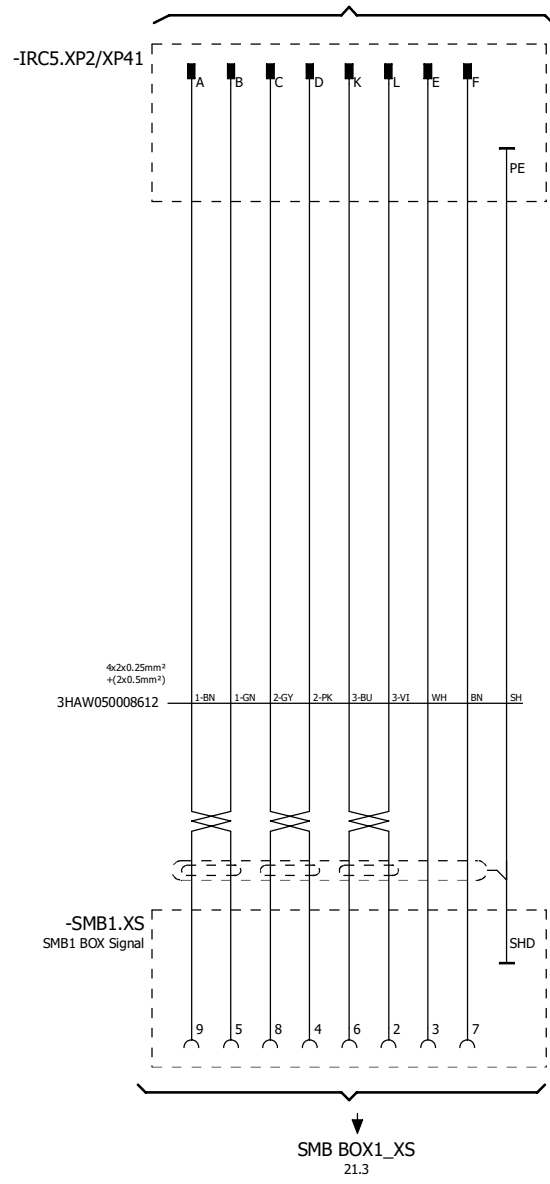
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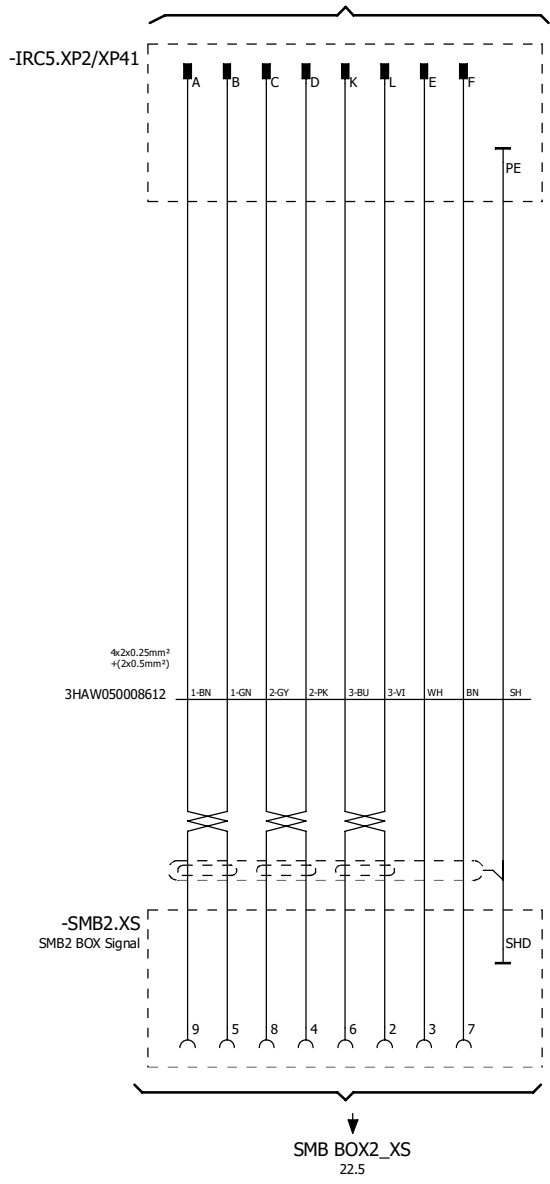
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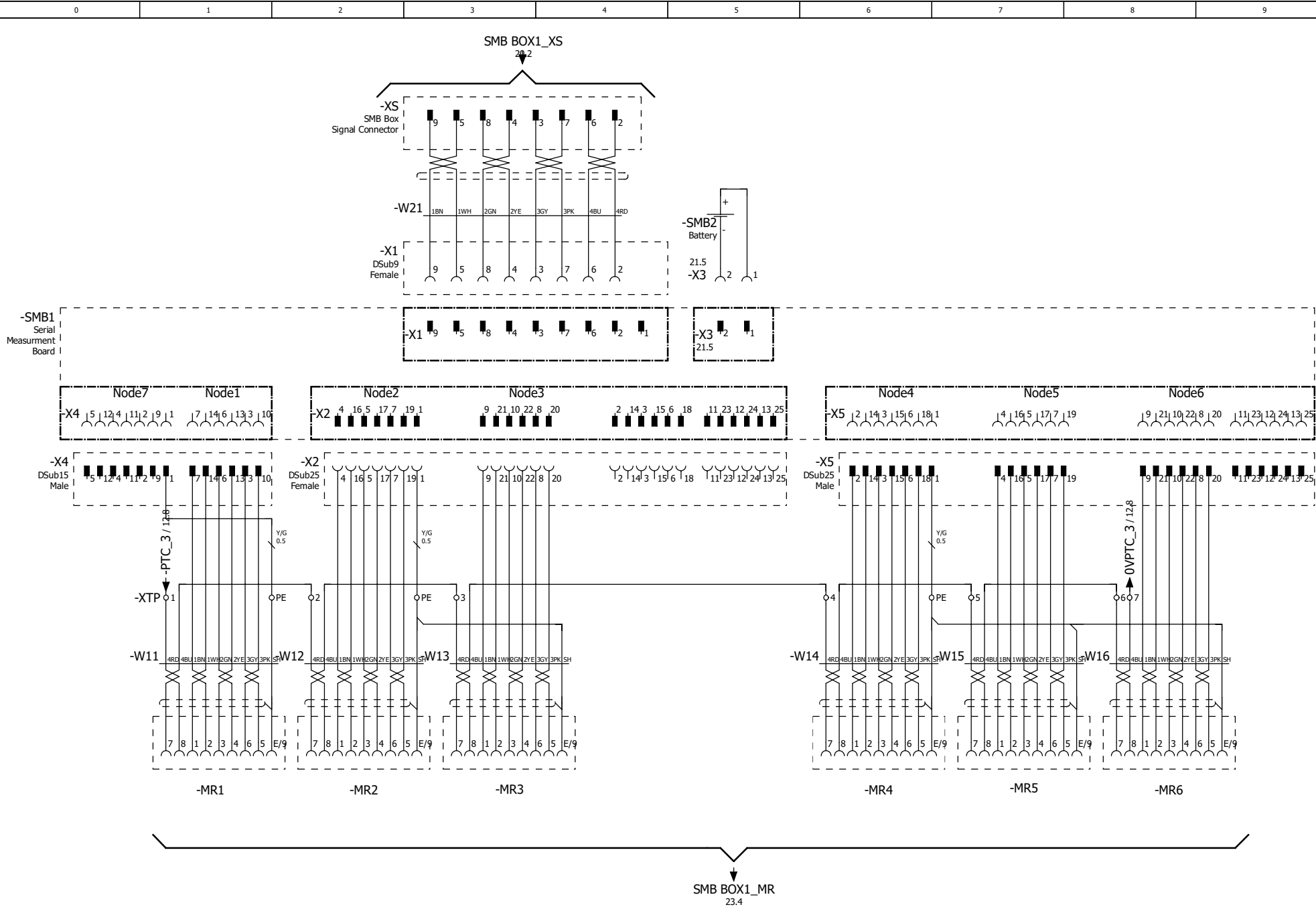


MOTOR RESOLVER, TRANSFER
CARRIAGE STATIC CABLE

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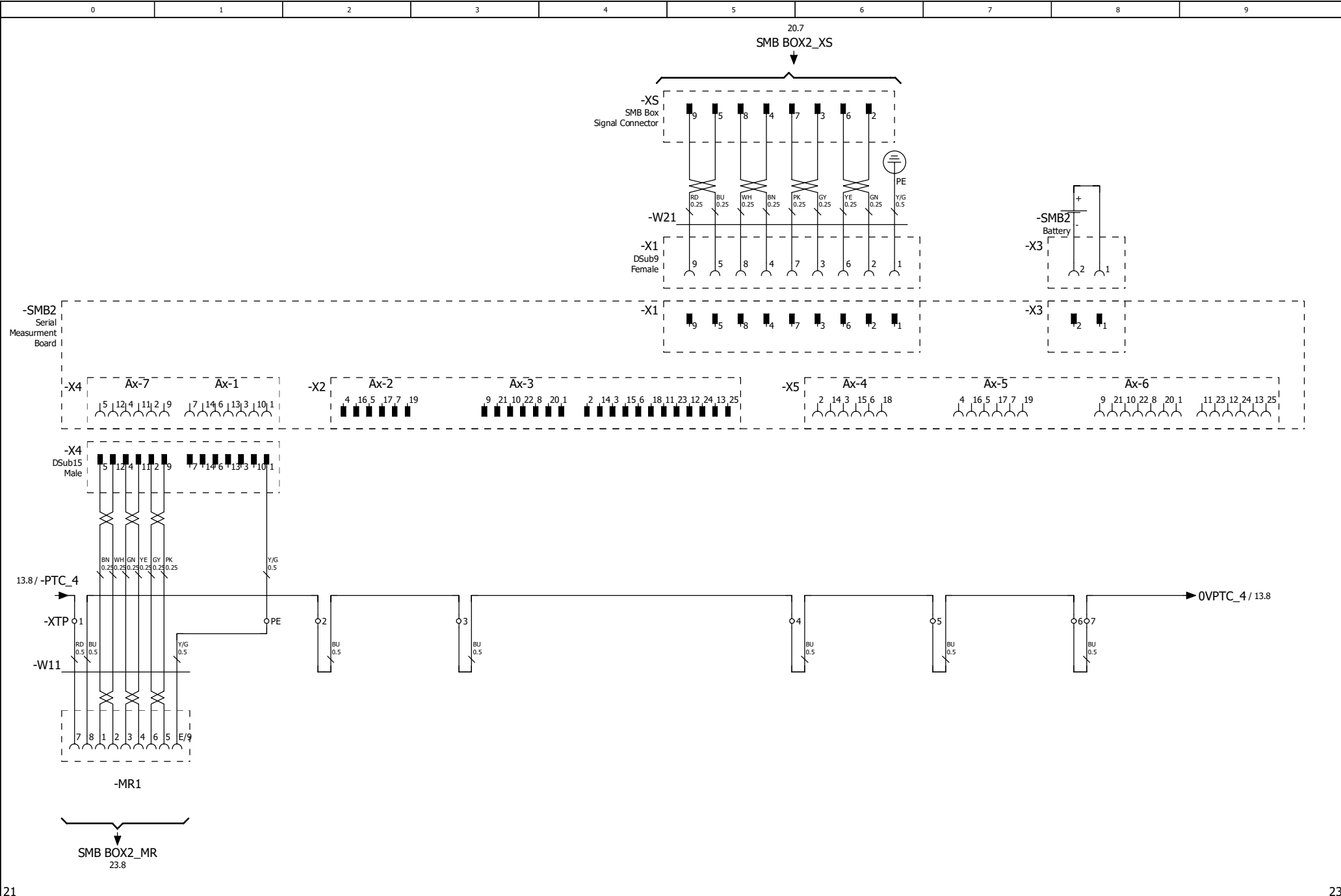


MOTOR RESOLVER, TRANSFER CARRIAGE SMB 1(6Axes)

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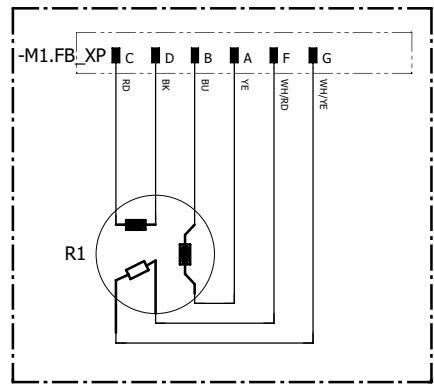
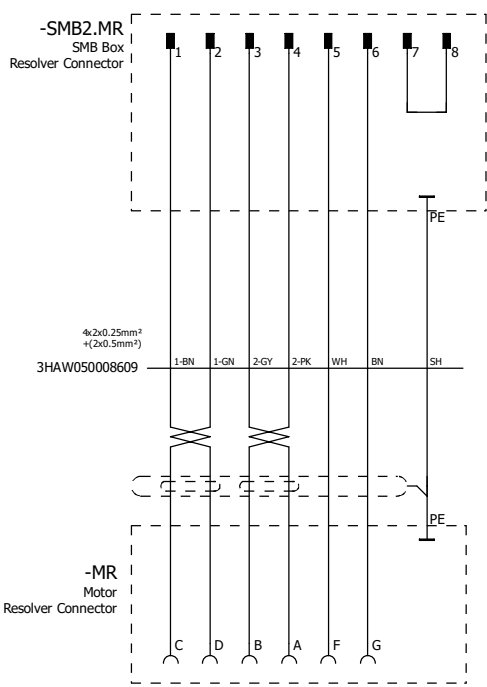
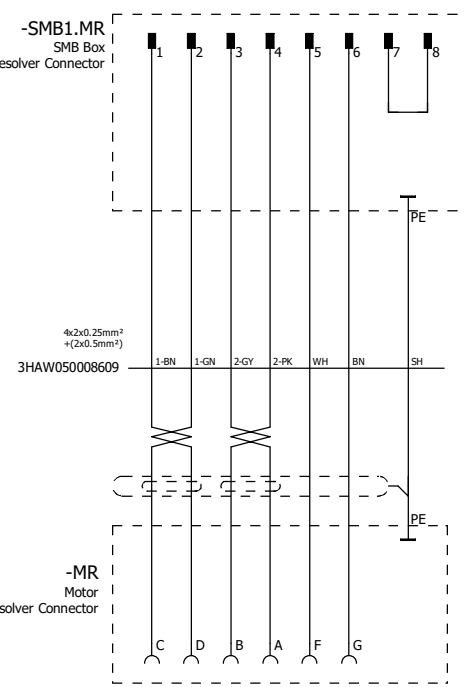
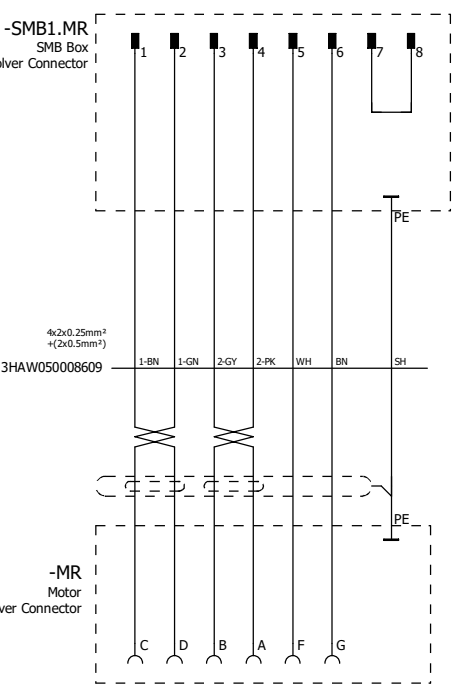
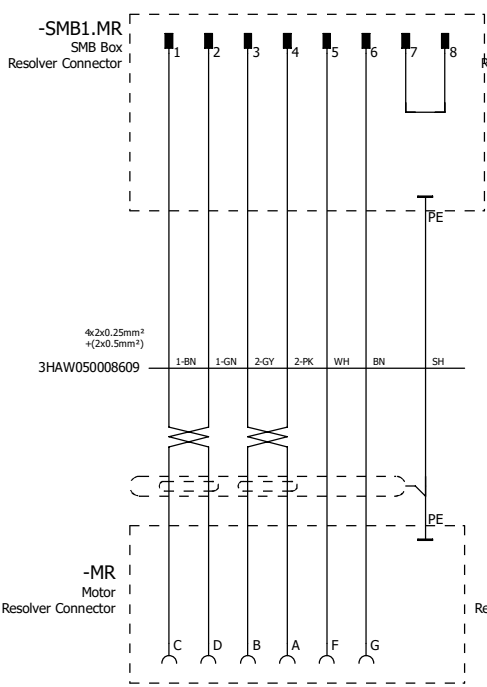
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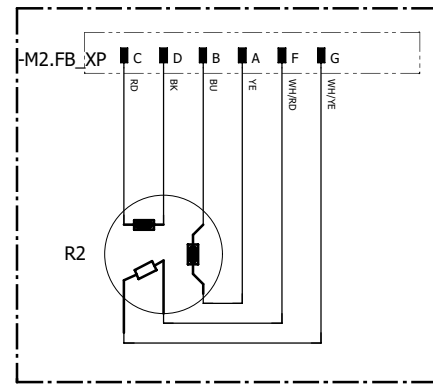
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SMB BOX1_MR
21.5

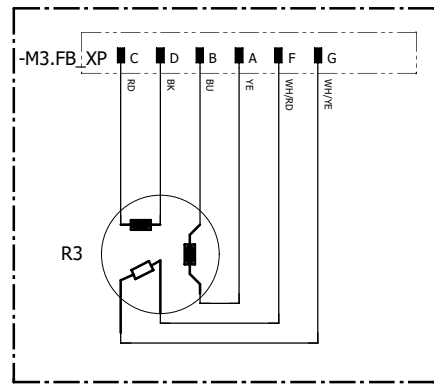
SMB BOX2_MR
22.0



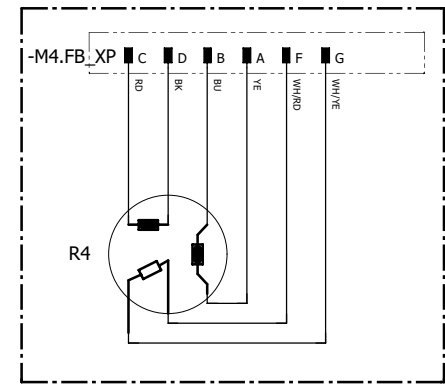
Carriage 1
Motor Resolver



Carriage 2
Motor Resolver
(Option)



Carriage 3
Motor Resolver
(Option)



Carriage 4
Motor Resolver
(Option)

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Prepare by, Date: CNYAZHA48, 20240915	Approve by, Date: CNFALEG, 20240920

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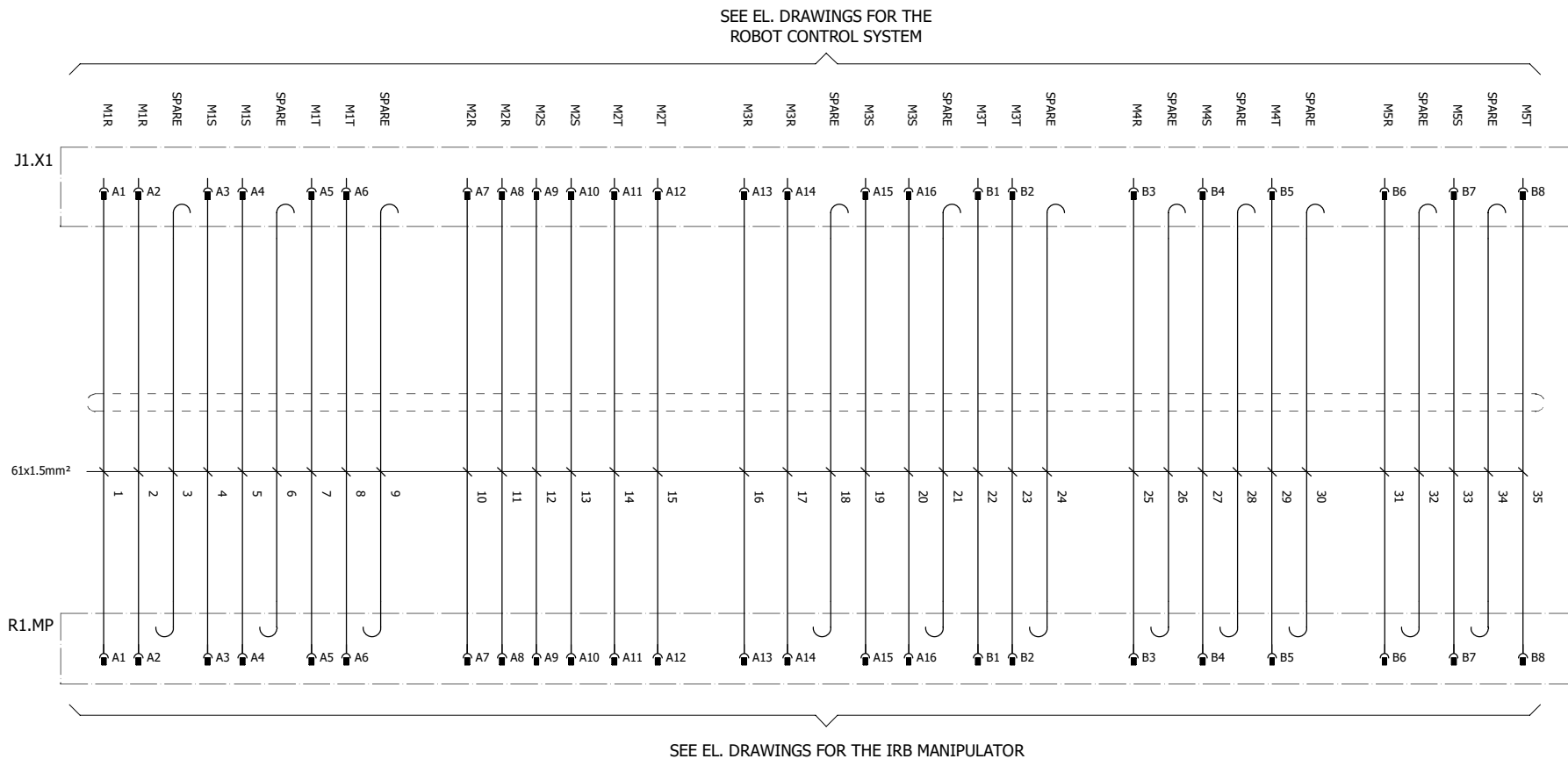


MOTOR RESOLVER, TRANSFER
CARRIAGE MOTOR

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Document no.
3HKA00000191004

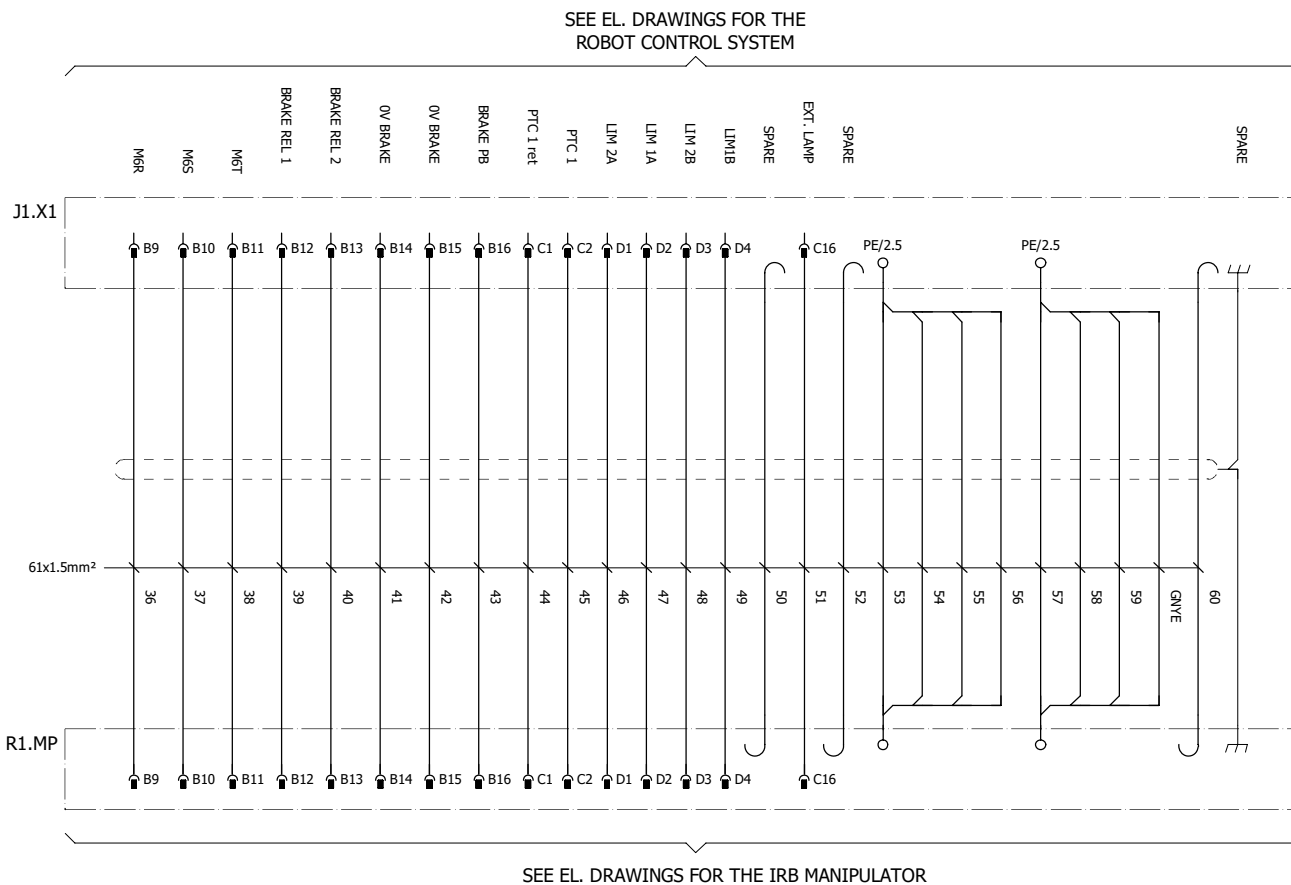
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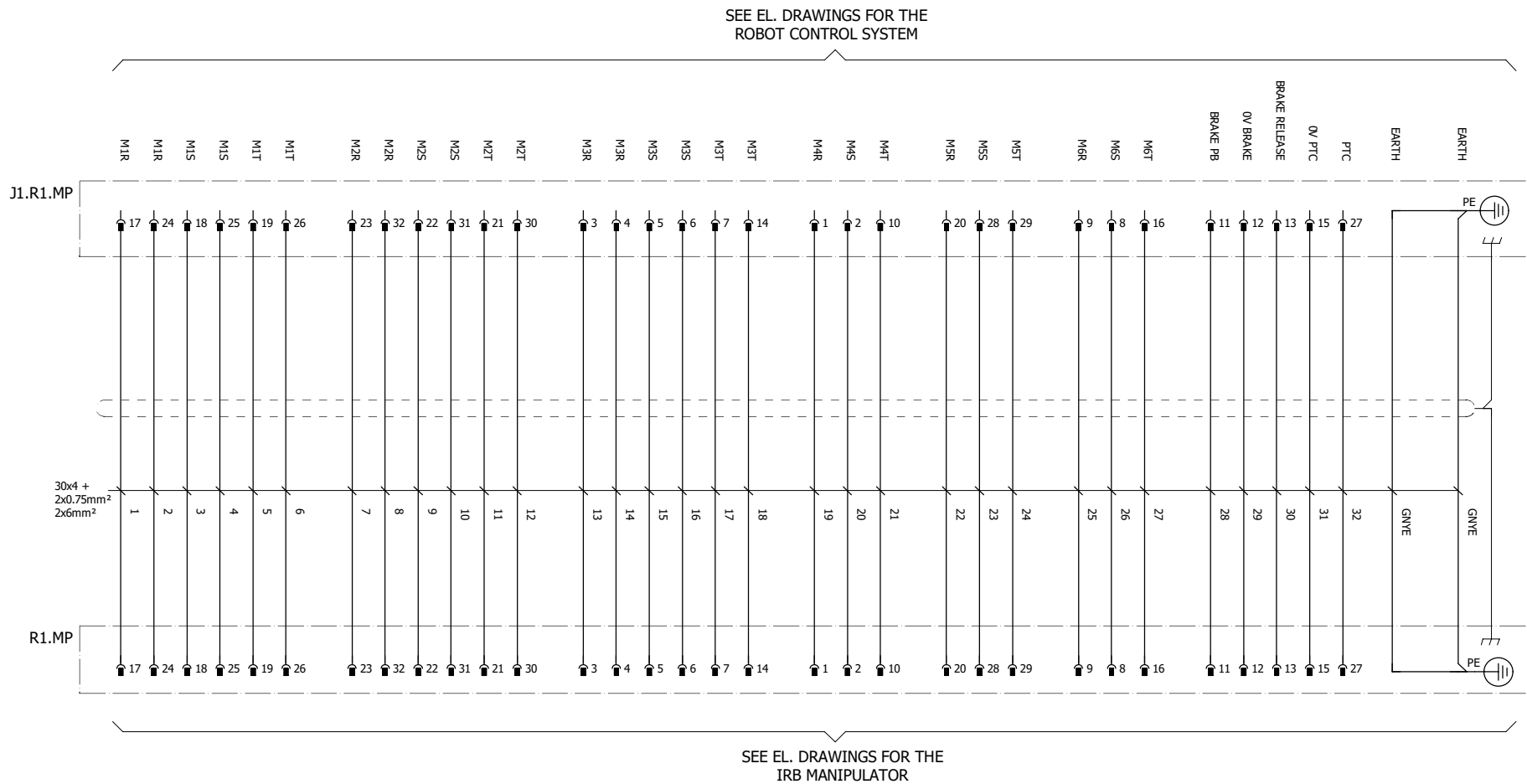


MOTOR CABLE, IRB4400

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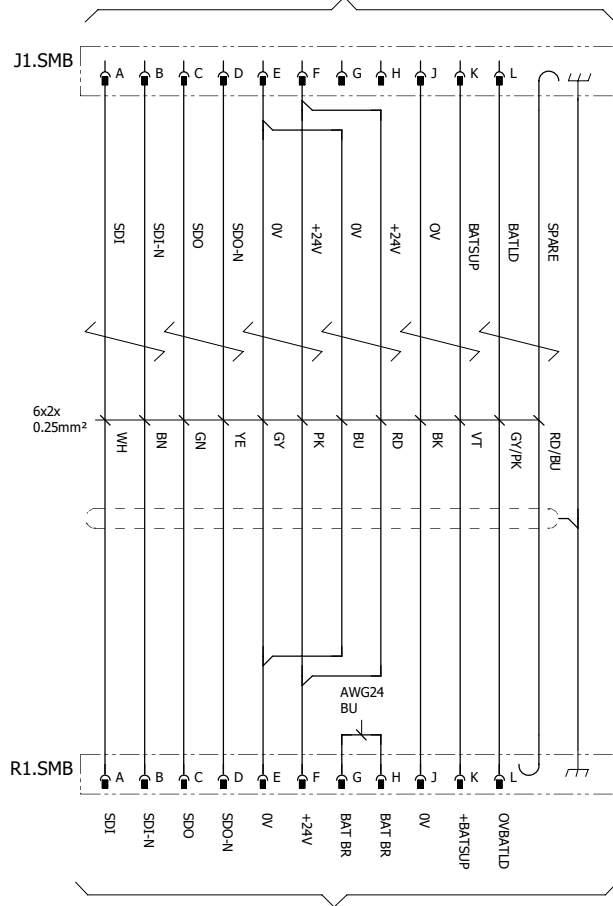
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SEE EL. DRAWINGS FOR THE
ROBOT CONTROL SYSTEM



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IRB MANIPULATOR

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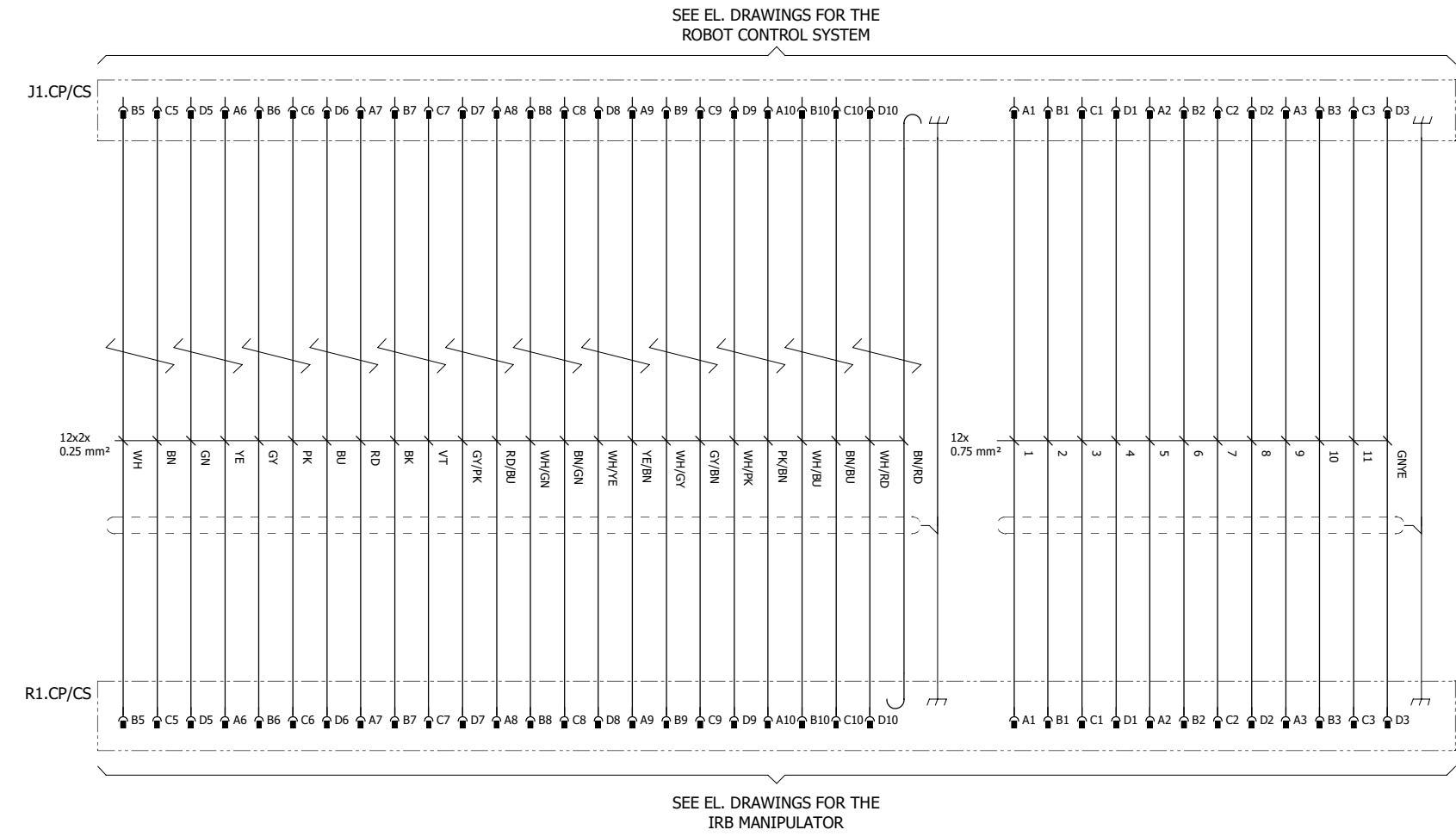
IRT 710	Replacement of	Replaced by
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RESOLVER CABLE,
IRB460/760/4600/6xx0/7600

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IRT 710	
Replacement of	Replaced by



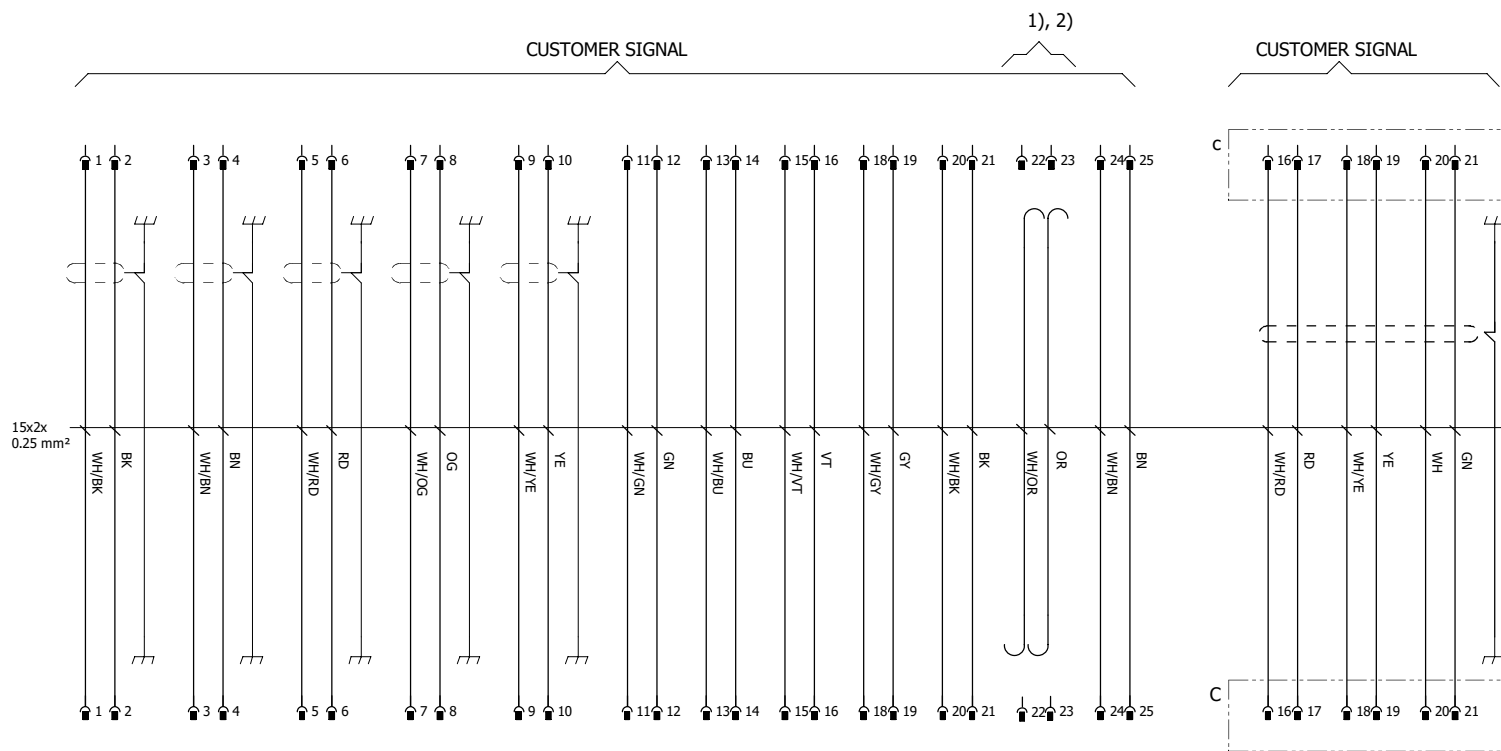
OPTION CUSTOMER POWER/SIGNAL,
IRB4400

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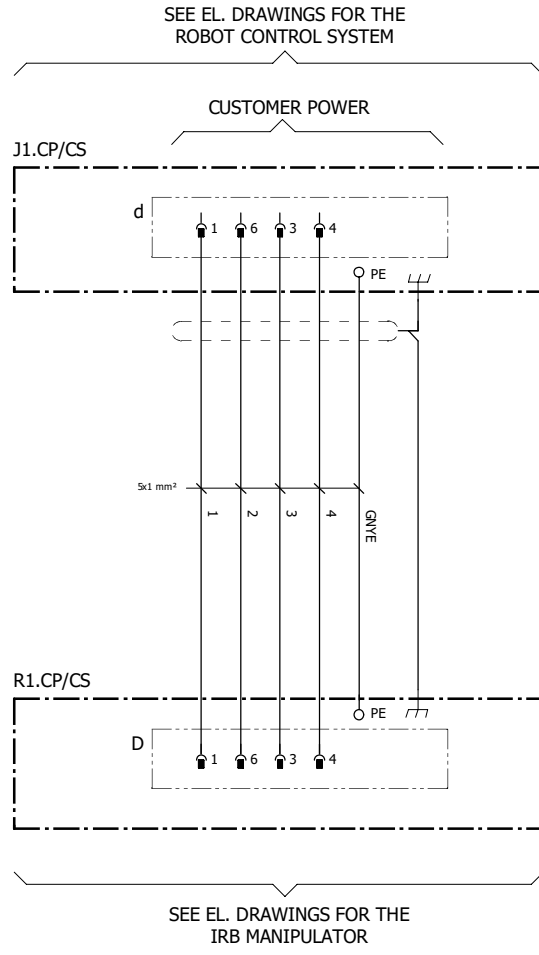
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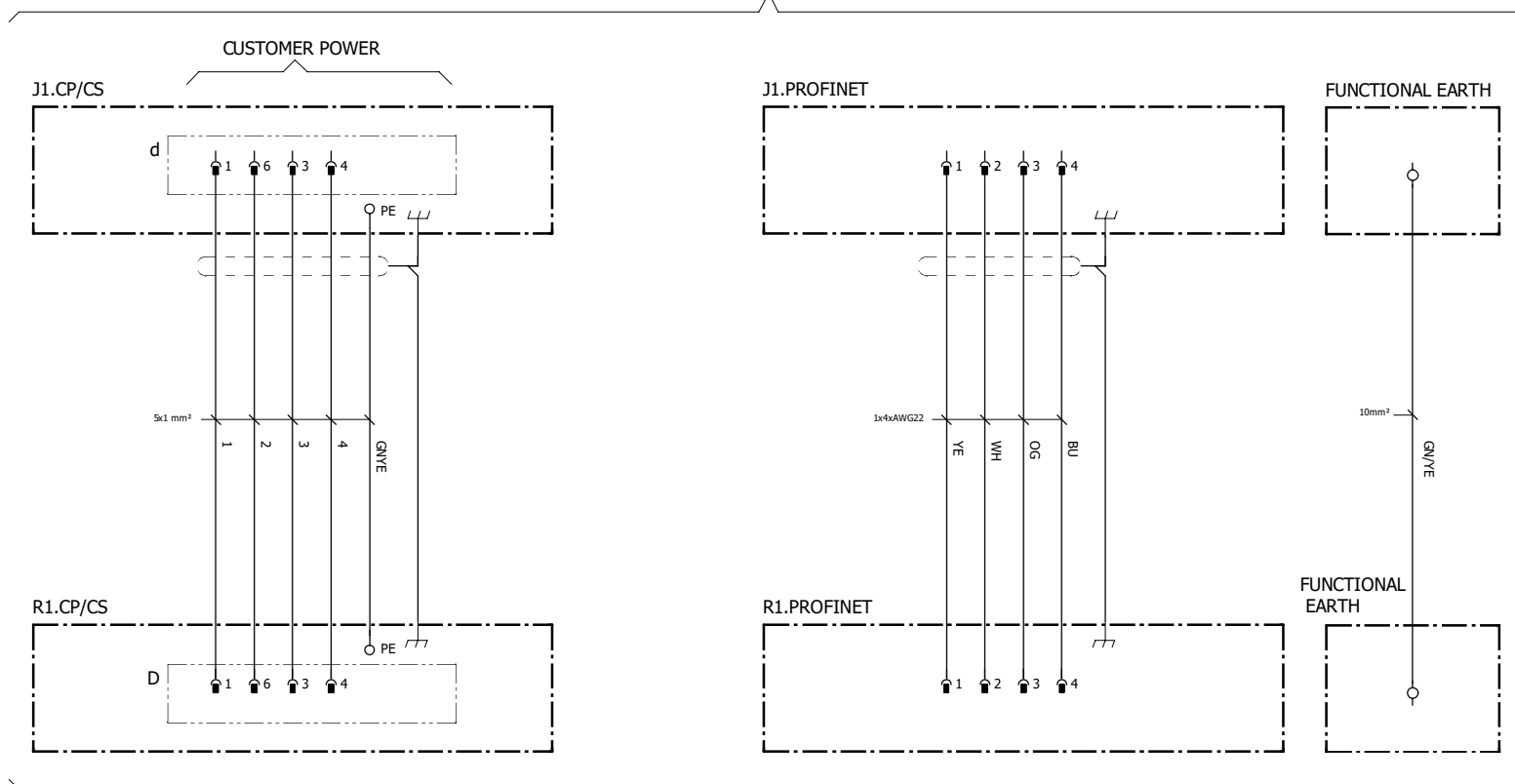


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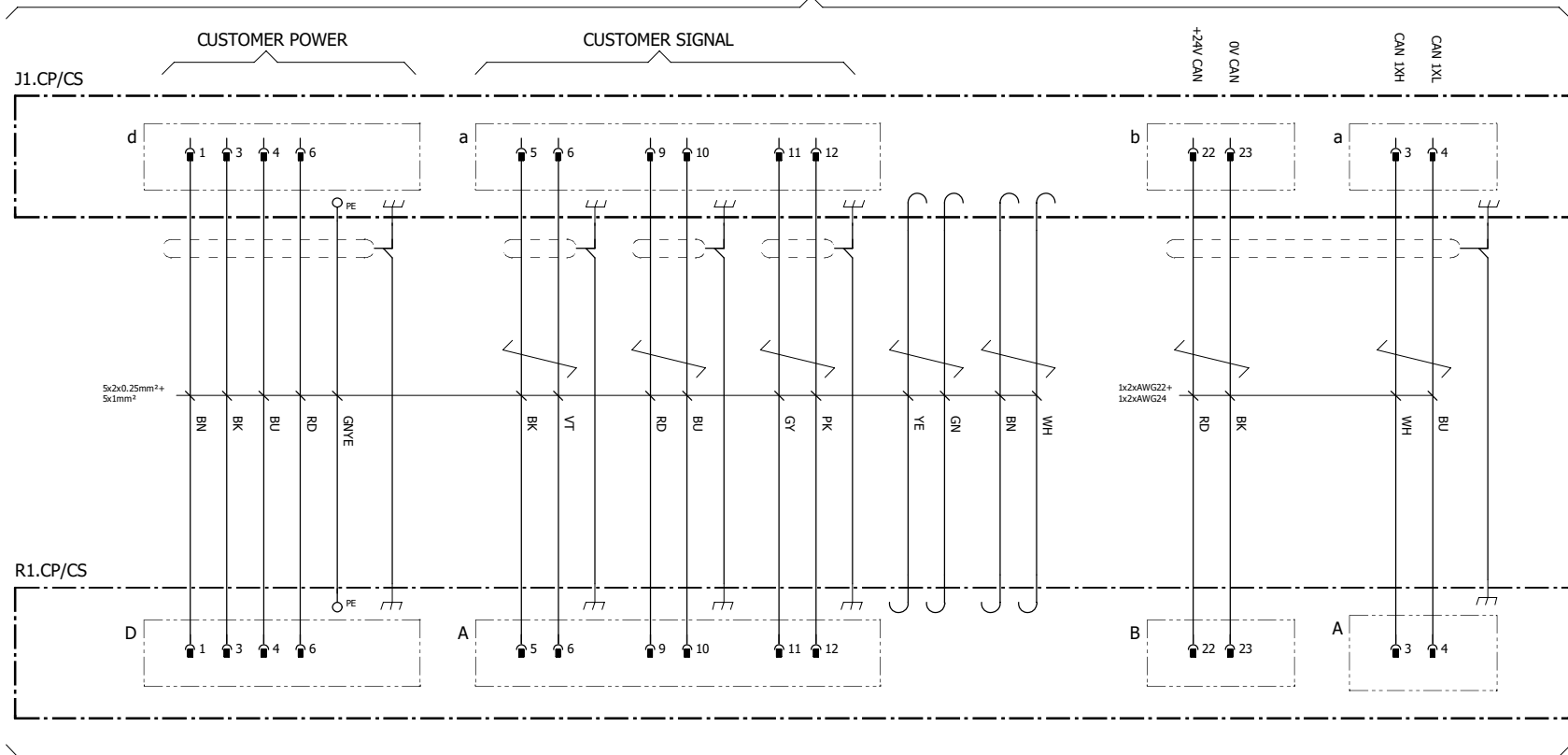


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Revision comment

20220419 First version 001

20240915 Rev002

General update the cable connection point name according to harness drawing

Page 4-6 Clarify the harness connection and connection points.

Page 9 Change 3HAW050008614 to 3HAW050008613, change the SMB BOX circuit connection to 1axis.

Page 10 Correct the circuit connection of 3HAW050008614 and SMB Box.

Page 17 Delete the axis 2 and axis 3 circuit diagram of SMB BOX.

Page 24-27 Update the harness part number.

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