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ABB

SE-721 68 Västerås  
Sweden

<b>Latest revision:</b> ECO 109499, WI 186190 Page 3 column 1: Harness 3HAC075000-001 added. Page 3 column 1: Harness 3HAC024386-001 changed.		Lab/Office: RARO SE RDM2	IRB 66x0 / 7600  COPYRIGHT page	Status: 2020-04-09 <b>APPROVED</b>	Plant: = IRB66x0/7600 Location: + Manipulator Sublocation: +	Document no. 3HAC025744-001	Rev. Ind <b>08</b>	Page 1 2 Total 21
				Prepared by, date: EM 200406	Approved by, date: ML 200409			

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IRB 66x0 / 7600  
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**Valid For:**

This circuit diagram is valid for the following cable harness assemblies:

- 3HAC 024385-001 Manipulator harness axis 1-6 (IRB 6600 / 6640)
- 3HAC 069663-001 Foundry Prime manipulator harness axis 1-6 (IRB 6640)
- 3HAC 024386-001 Manipulator harness axis 1-6 (IRB 6640 / 6650)
- 3HAC 075000-001 Manipulator harness axis 1-6 (IRB 6650S)
- 3HAC14940-1 rev 3 and later. Manipulator harness axis 1-4 (IRB 6600 ID / 6640 ID / 7600)
- 3HAC16331-1 rev 1 and later. Manipulator harness axis 1-4 (IRB 6640 ID / 6650 ID)
- 3HAC14139-1 Manipulator harness axis 5 (IRB 6600 / 6640 / 6650 / 6650S)
- 3HAC069656-001 Foundry Prime manipulator harness axis 5 (IRB 6640)
- 3HAC11440-1 Manipulator harness axis 5-6 (IRB 7600)
- 3HAC023717-001 Manipulator harness axis 5-6 (IRB 6600 ID / 6640 ID / 6650 ID)
- 3HAC15930-1 UL signal lamp (IRB 6600 / 6640 / 6650 / 6600 ID / 6640 ID / 6650 ID / 6650S / 7600)
- 3HAC12498-1 Pos SW 3 functions (IRB 6600 / 6640 / 6650 / 6600 ID / 6640 ID / 6650 ID / 6650S / 7600)
- 3HAC12587-1 Pos SW 2 functions (IRB 6600 / 6650 / 6600 ID / 6650 ID / 6650S / 7600)
- 3HAC15374-1 Fan (IRB 6600 / 6640 / 6650 / 6600 ID / 6640 ID / 6650 ID / 6650S / 6660 / 7600)
- 3HAC15390-1 Pos Sw/ Fan cable harness (IRB 6600 / 6600 ID / 7600)
- 3HAC16659-1 Pos Sw/ Fan cable harness (IRB 6650 / 6650 ID / 6650S)
- 3HAC023599-001 Fan cable harness (IRB 6600 / 6640 / 6650 / 6600 ID / 6640 ID / 6650 ID / 6650S / 6660 / 7600)
- 3HAC026733-001 Manipulator harness axis 1-6 (IRB 6660)
- 3HAC028206-001 UL signal lamp (IRB 6660)

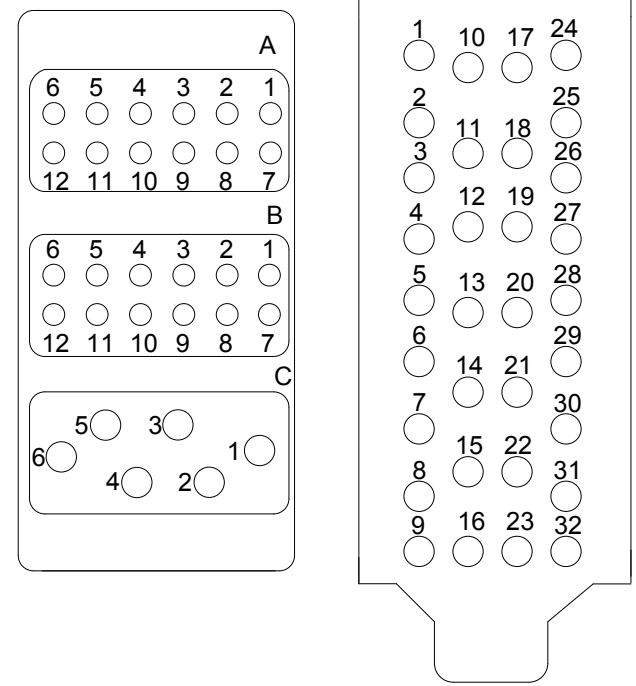
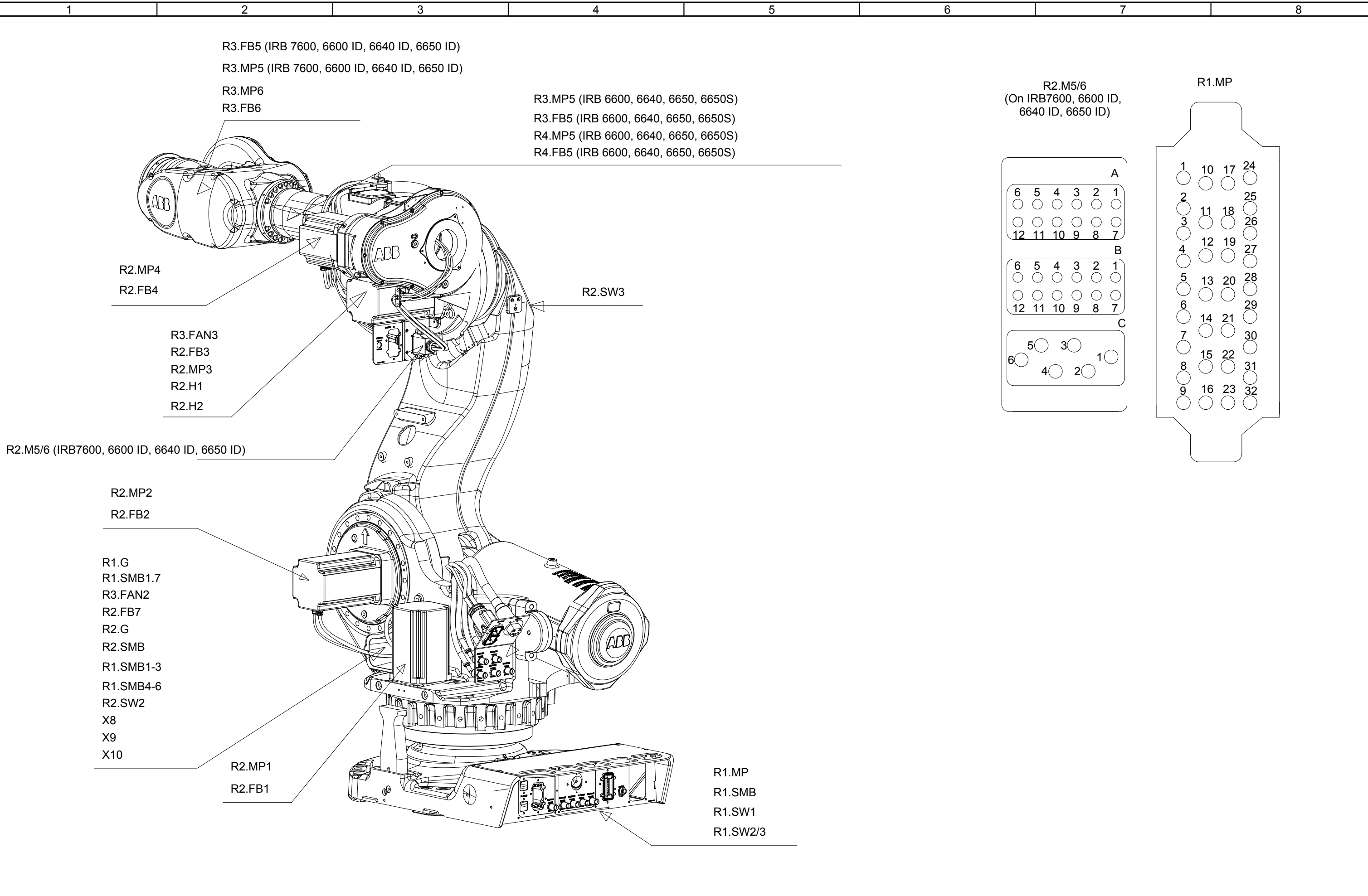
See circuit diagram 3HAC13347-1 in the following cases:

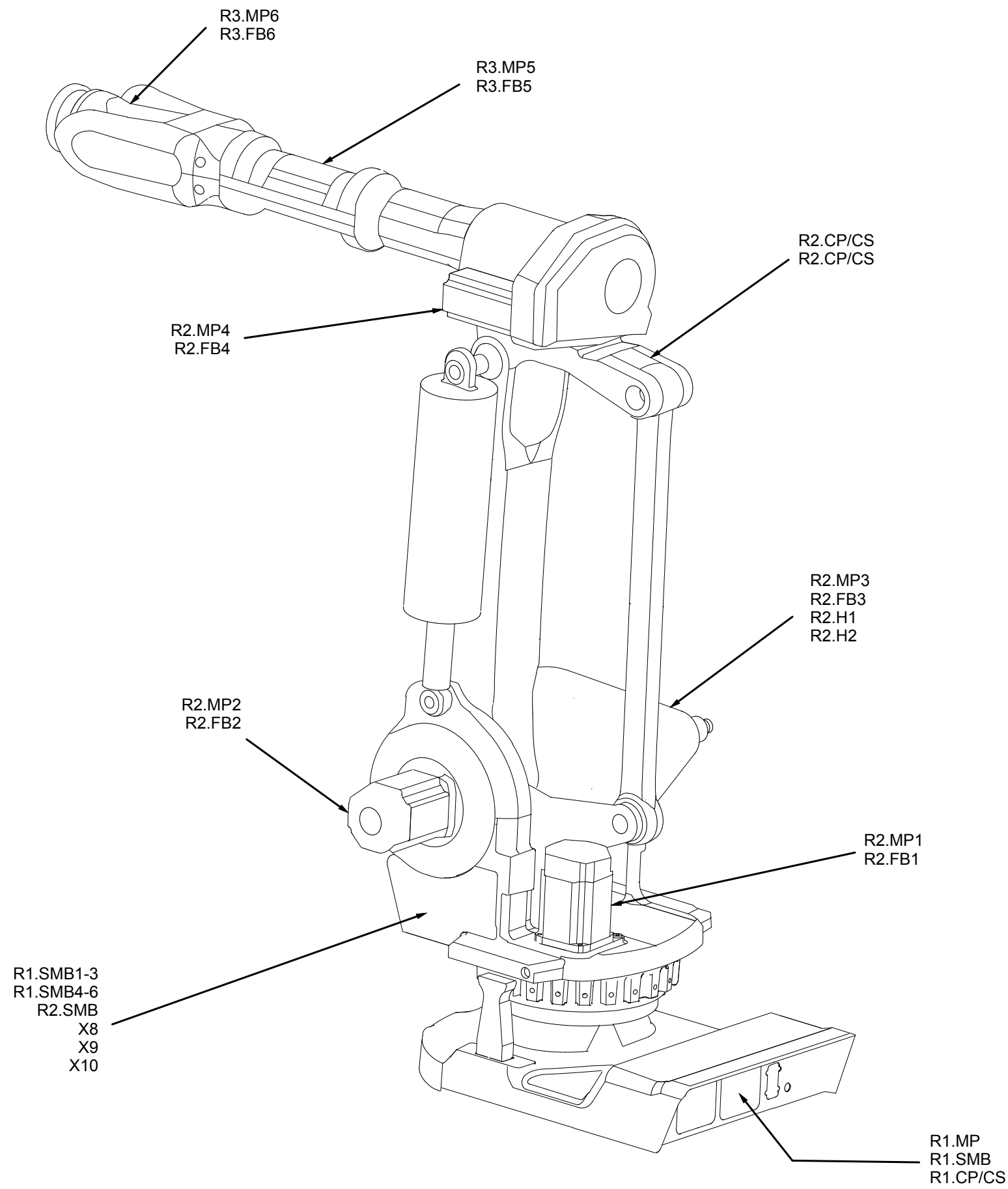
- If IRB6600, 6650 or 6650S with 3HAC14940-1, 3HAC16331-1
- If cable harness 3HAC14940-1 rev 2 or earlier
- If cable harness 3HAC16331-1 rev 0

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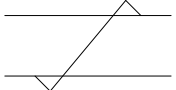
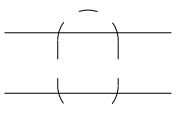
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 Connection point location of IRB 6660

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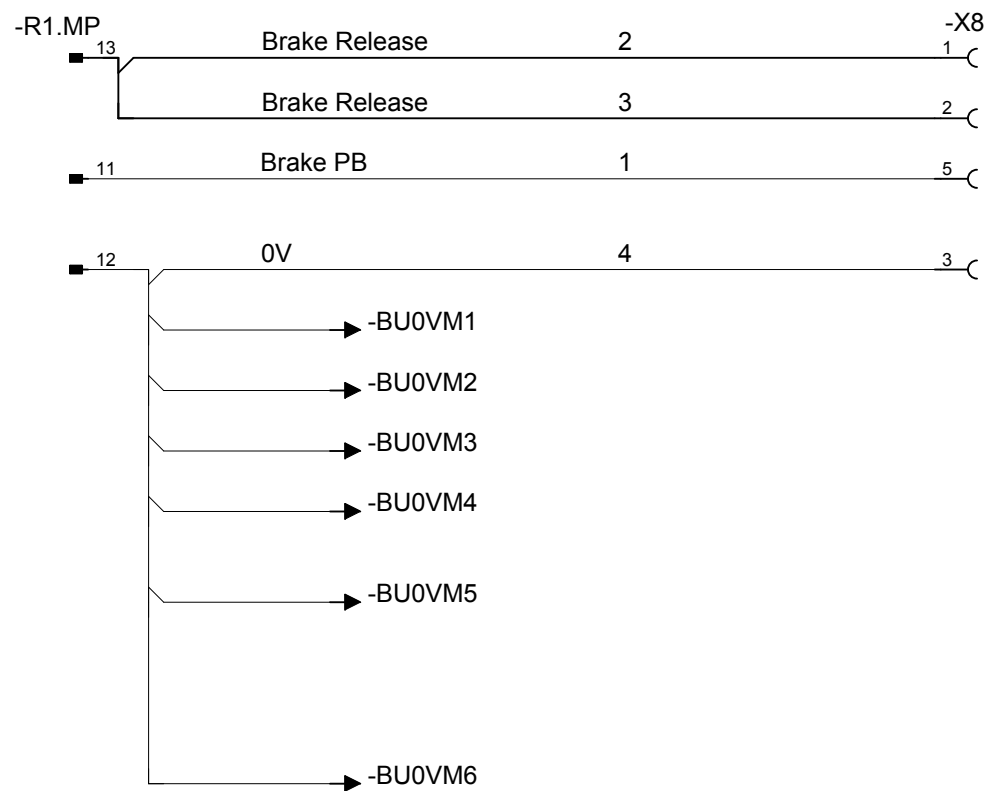
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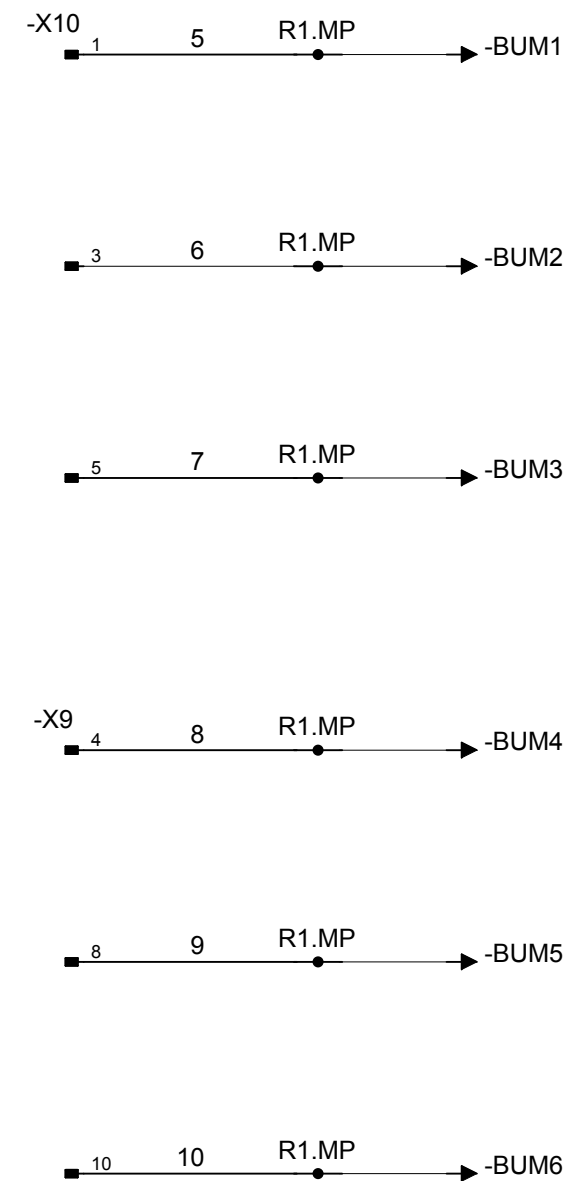
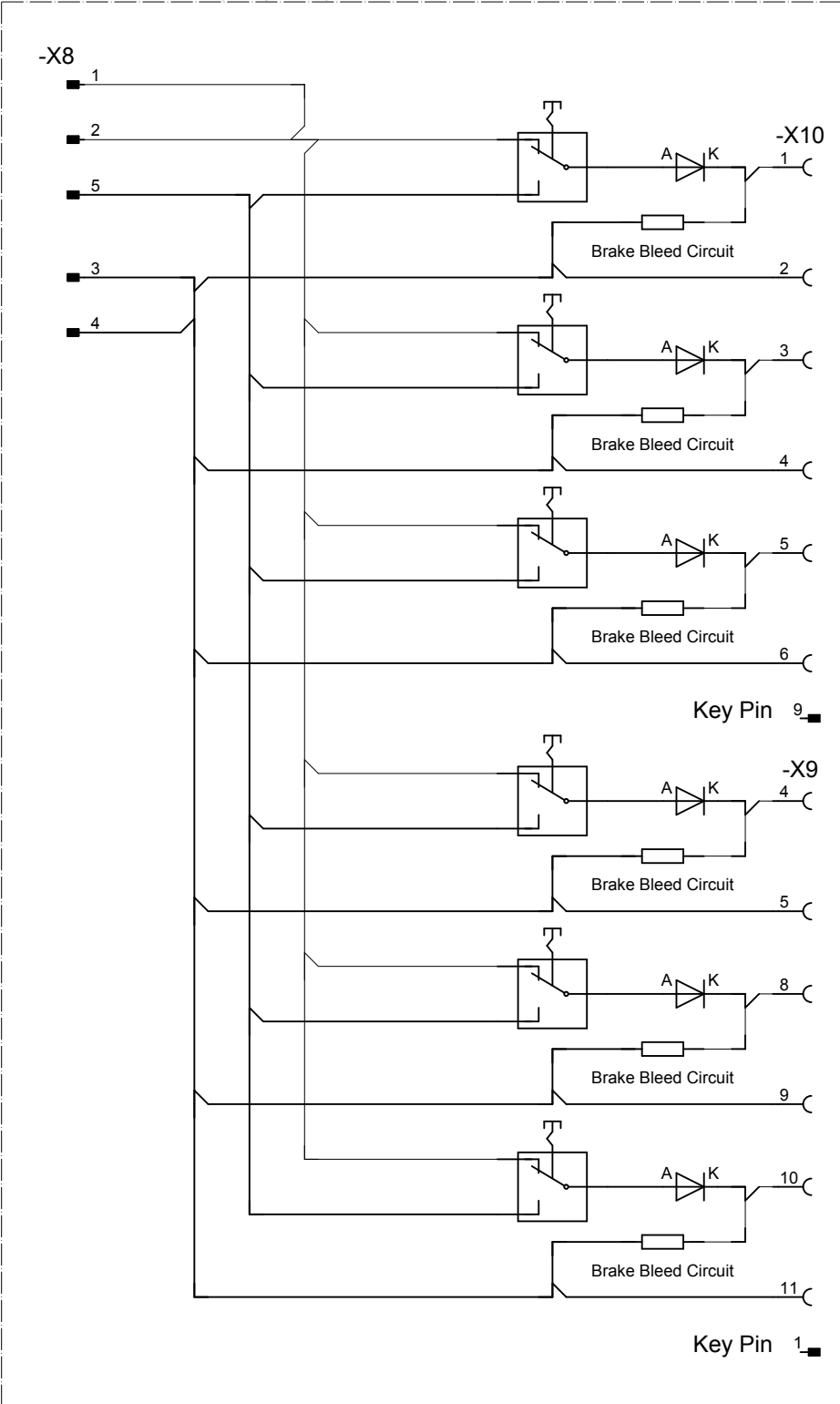
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1	2	3	4	5	6	7	8
M	Motor				Protective Earth		
B	Brake						
PTC	Temp sensor (PTC- resistor)				Twisted wires		
R	Resolver						
G	Battery Pack				Screened wires		
BU	Brake Release Unit						
FB	Feedback unit		IRB6X0		Any number i.e. 66X0 can be 6600, 6640, 6660 or 6650		
SMB	Serial Measurement Board						
FAN	Fan						
SW	Position switch						
Keypin	Location pin to avoid mismatch						

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**-BU Brake Release (Simplified)**



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IRB 66x0 / 7600

Brake Release Unit

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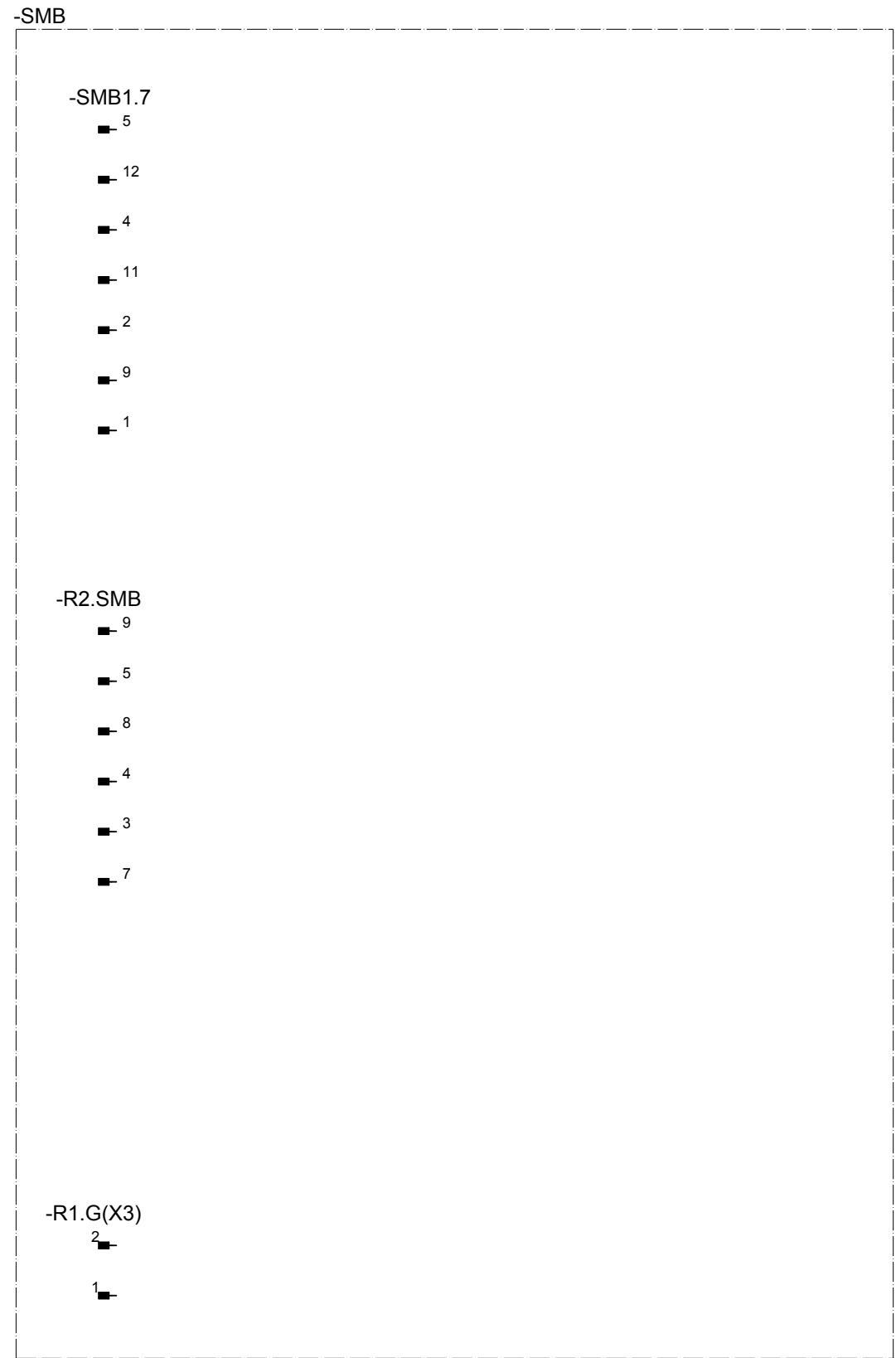
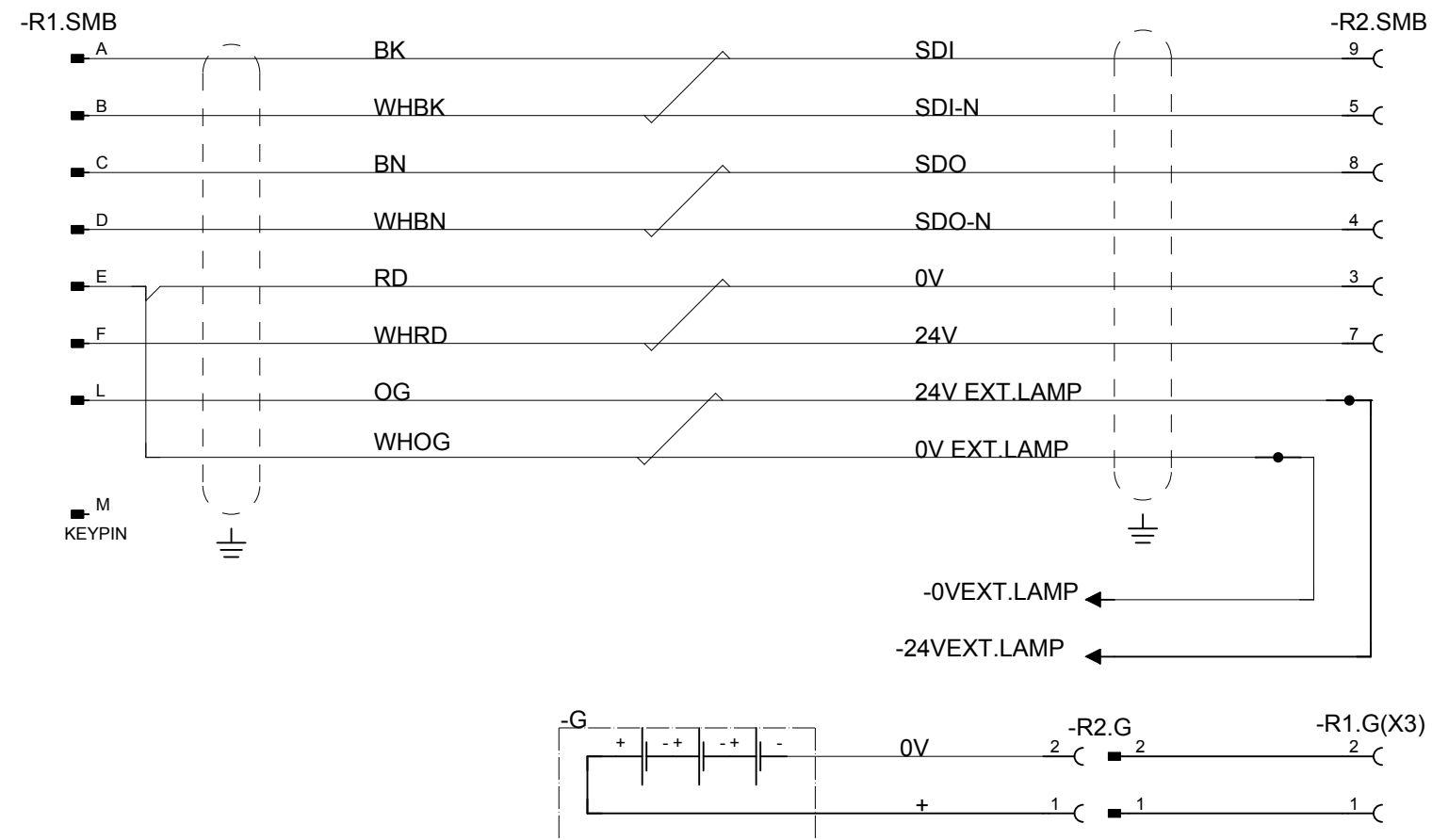
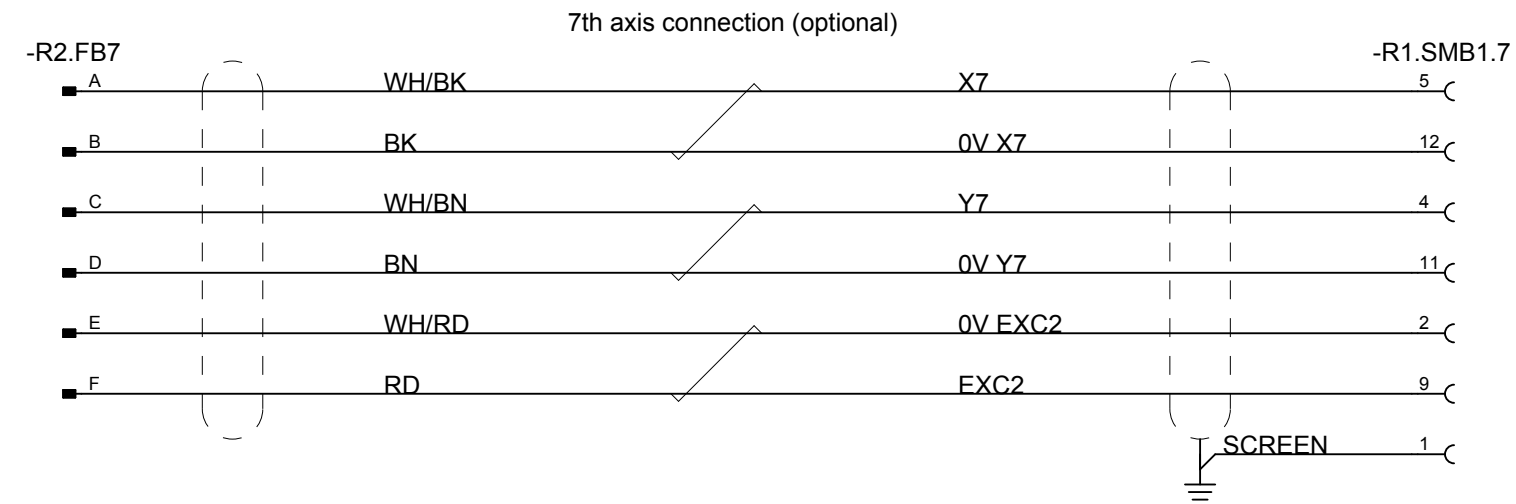
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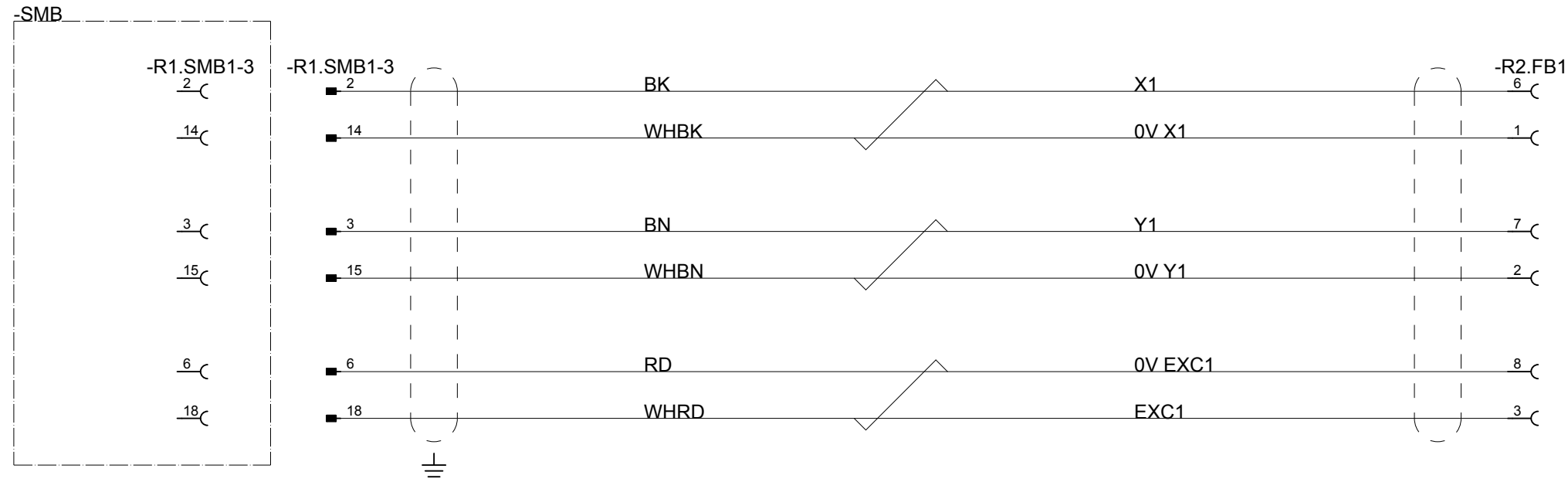
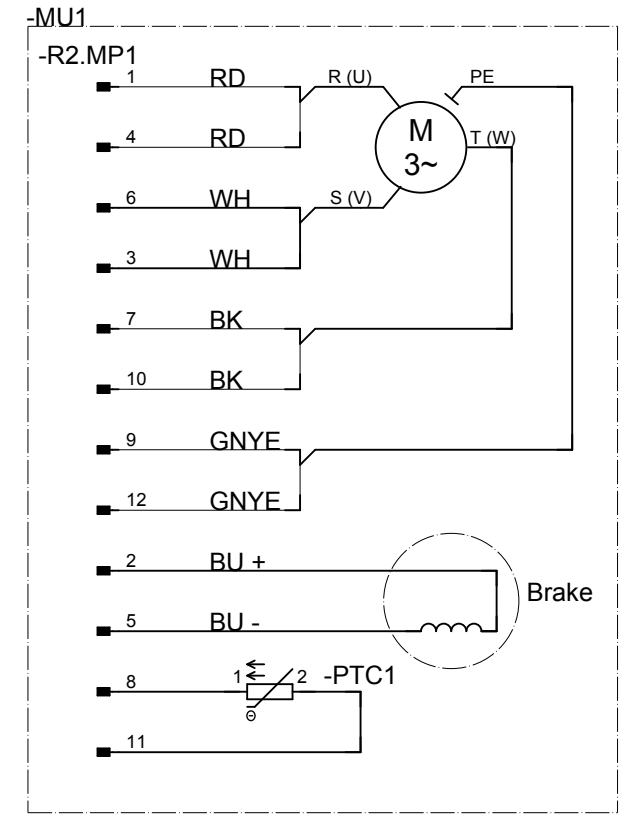
IRB 66x0 / 7600  
 Serial Measuring Board, incl. optional 7th axis connection

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Axis 1

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Location: + Axis1

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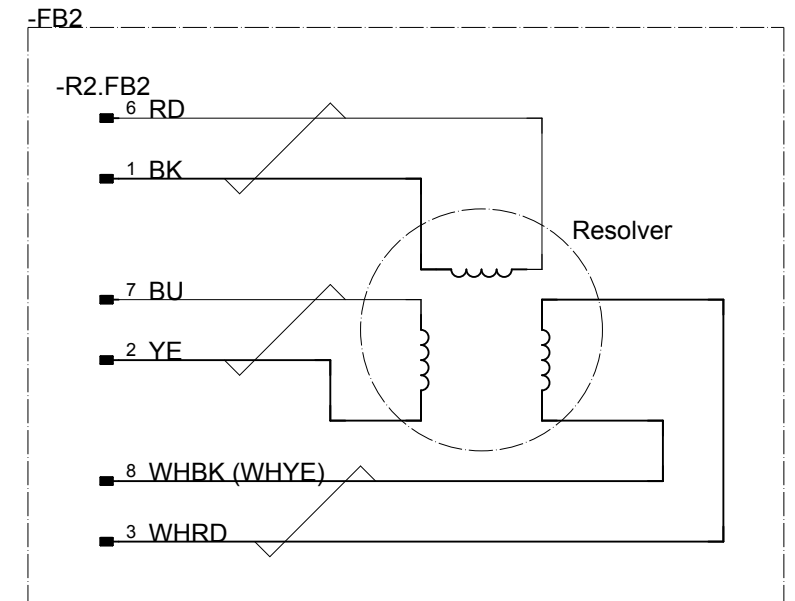
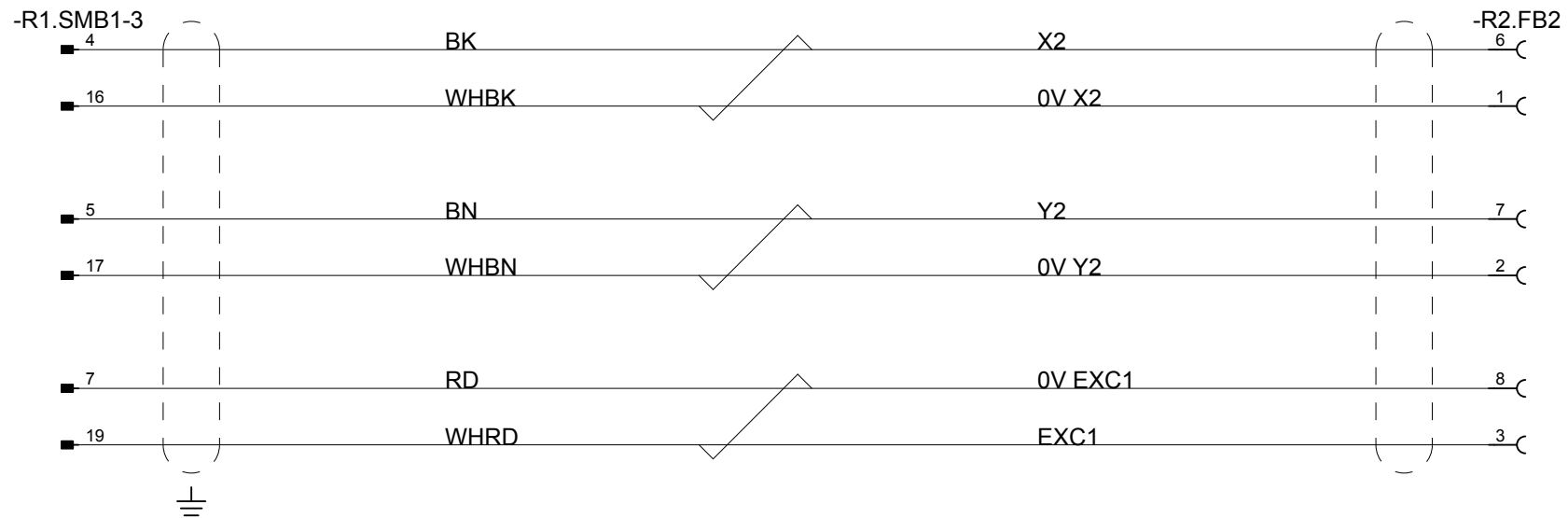
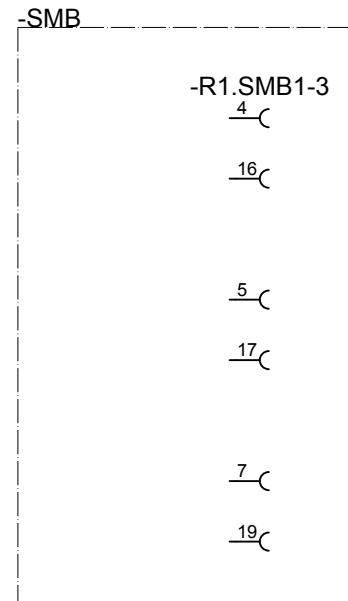
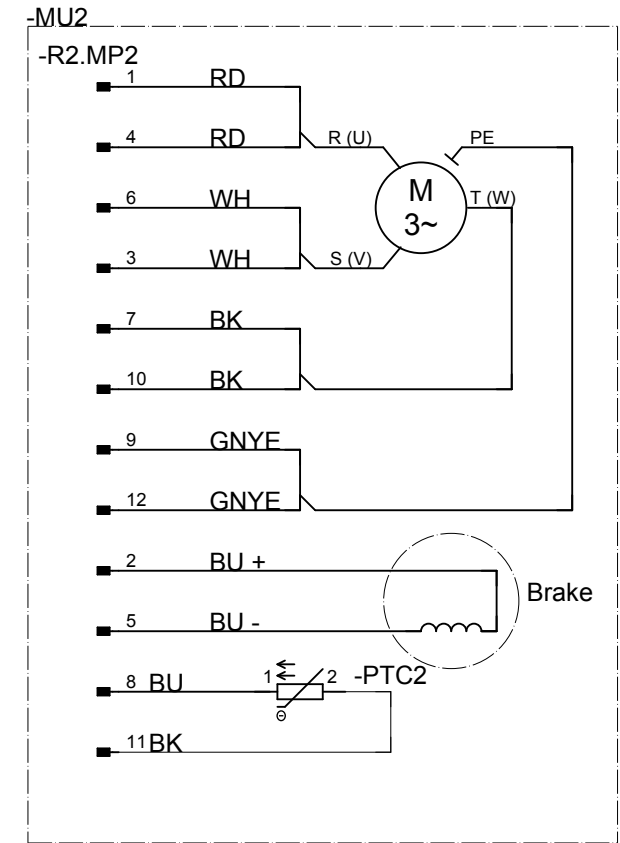
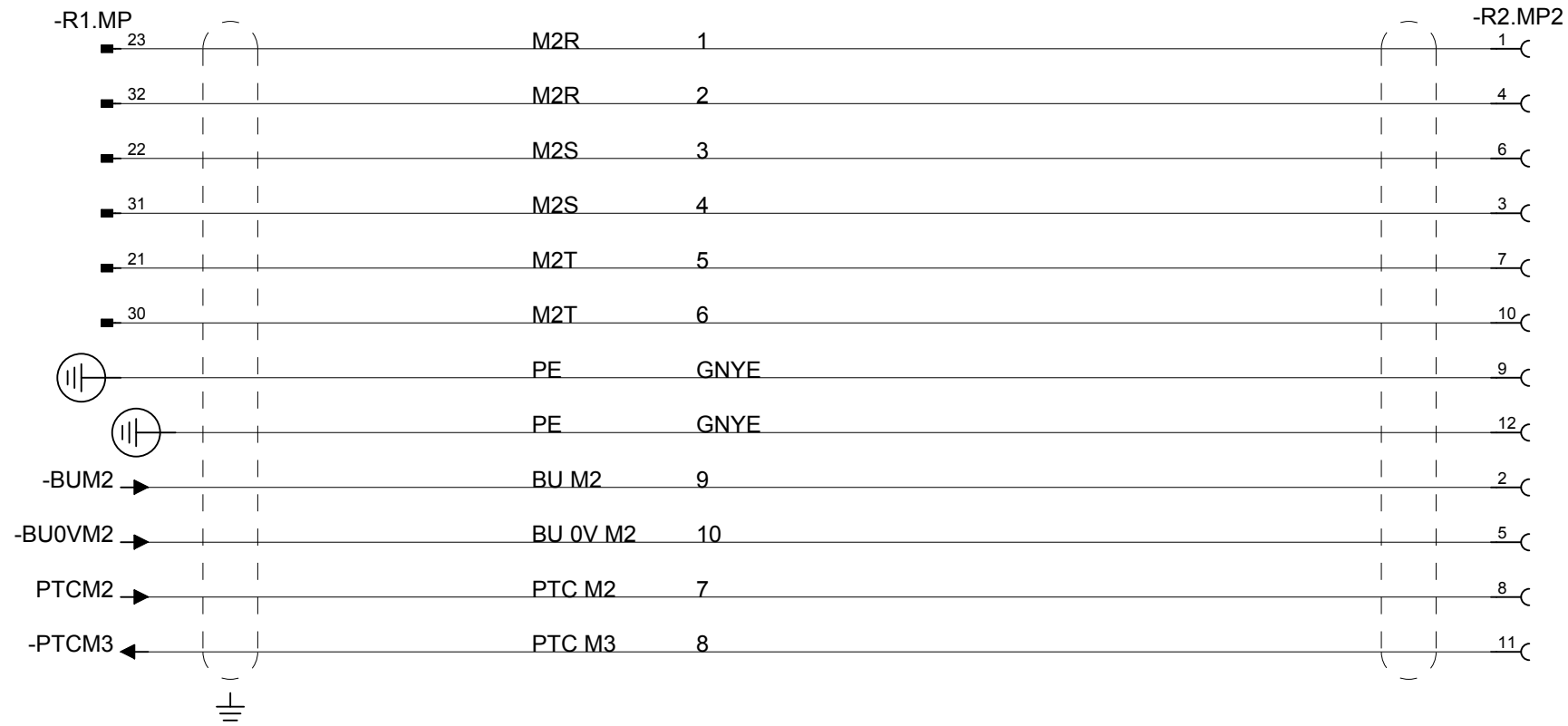
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IRB 66x0 / 7600

Axis 2

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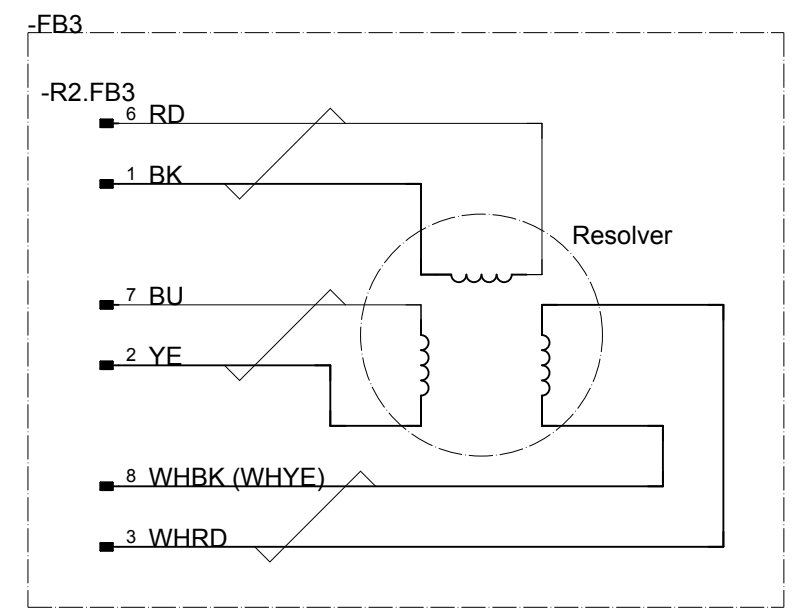
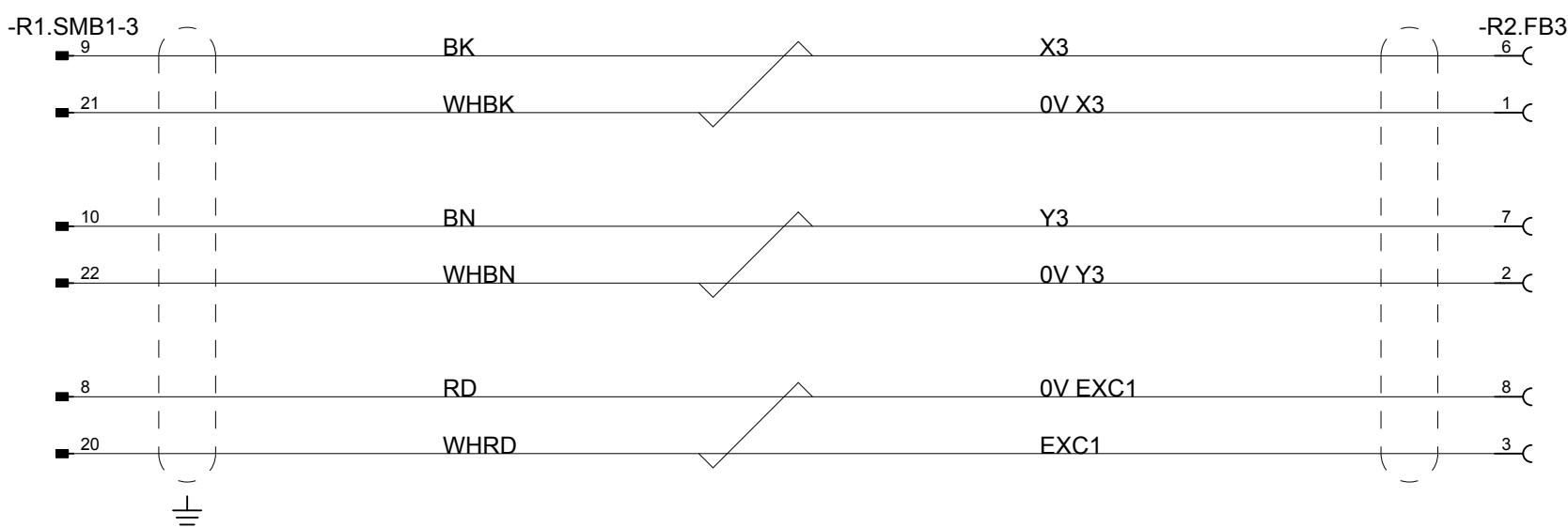
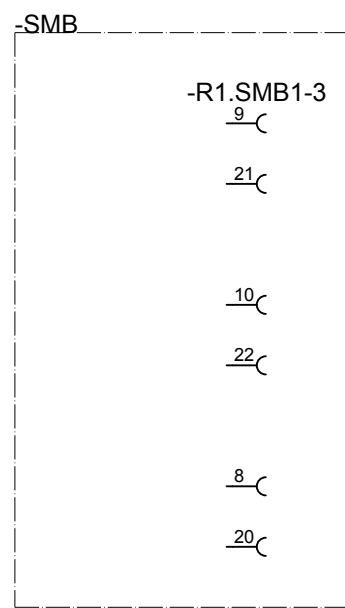
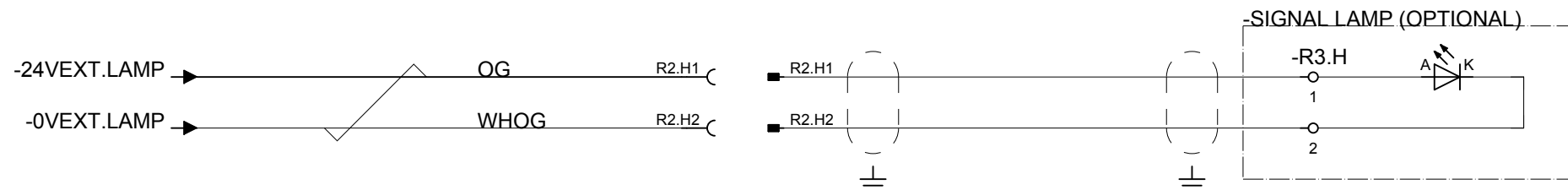
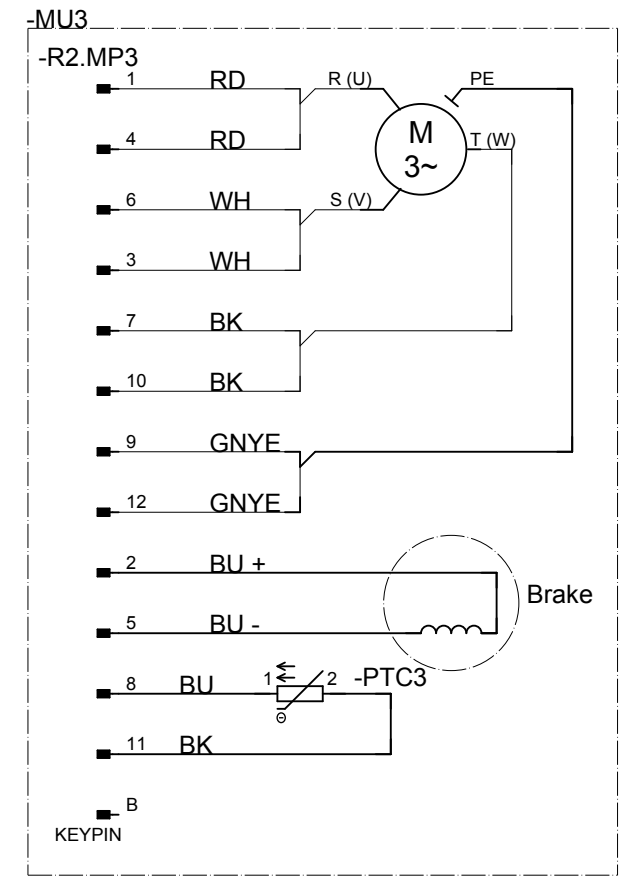
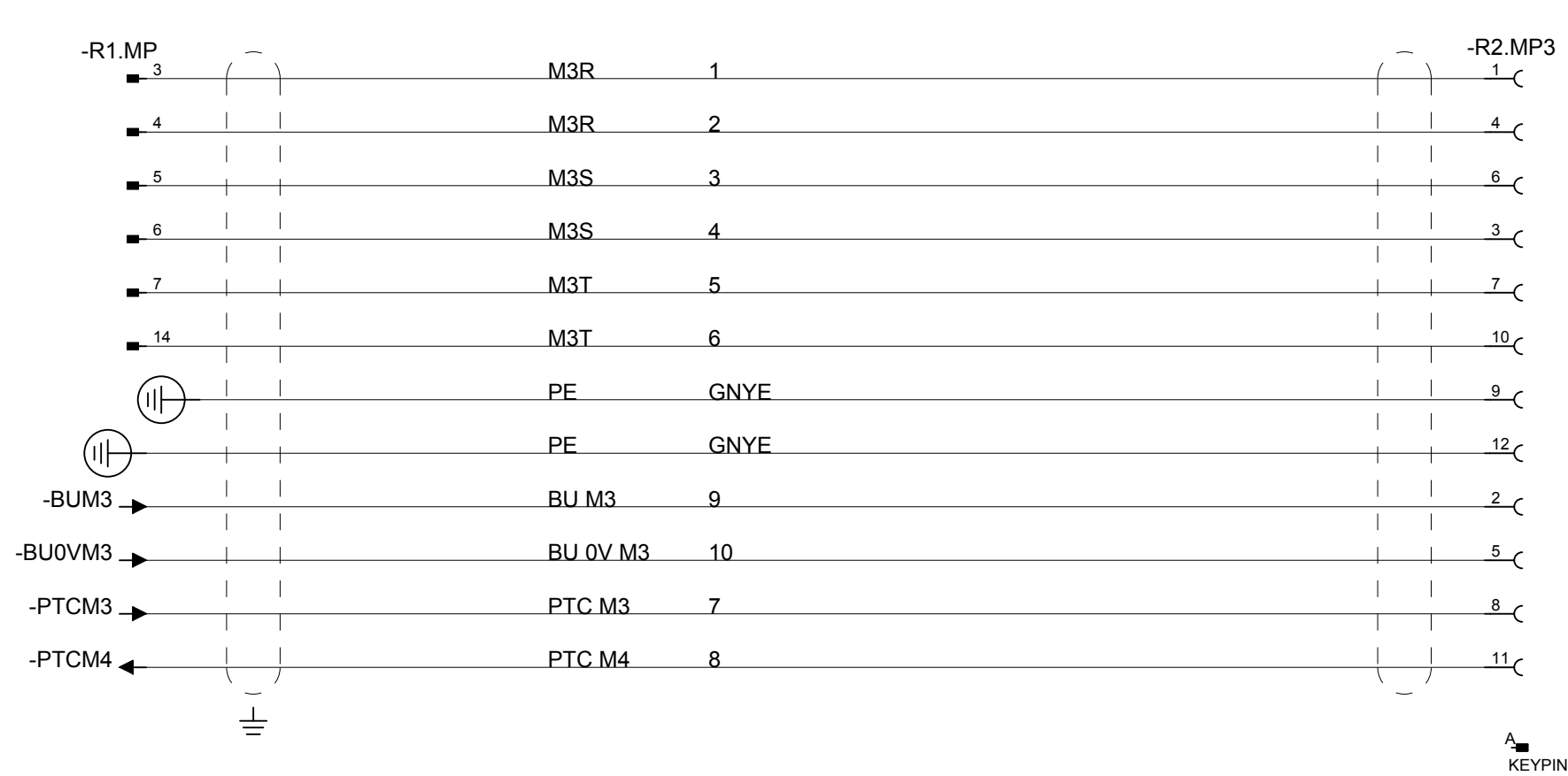
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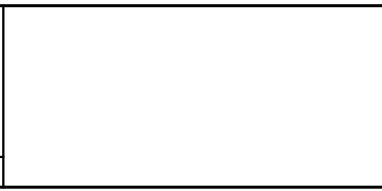
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IRB 66x0 / 7600  
 Axis 3, incl. optional signal lamp

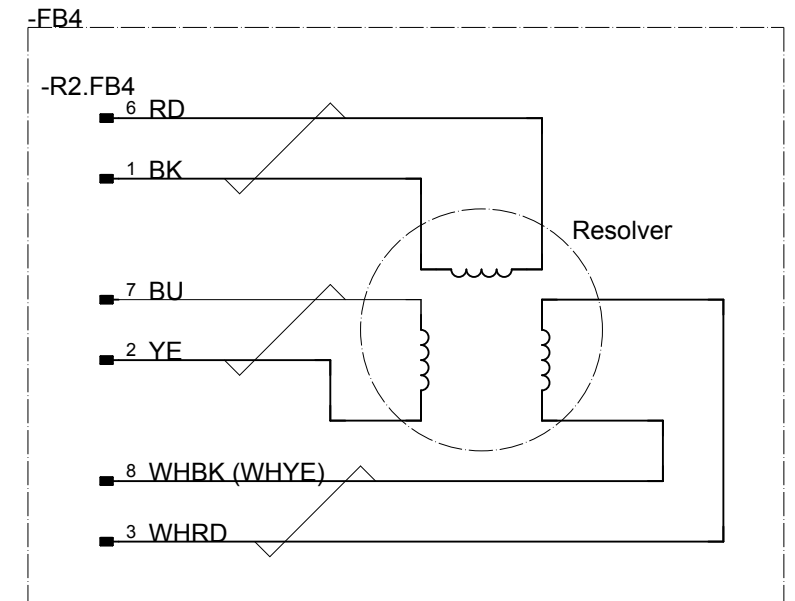
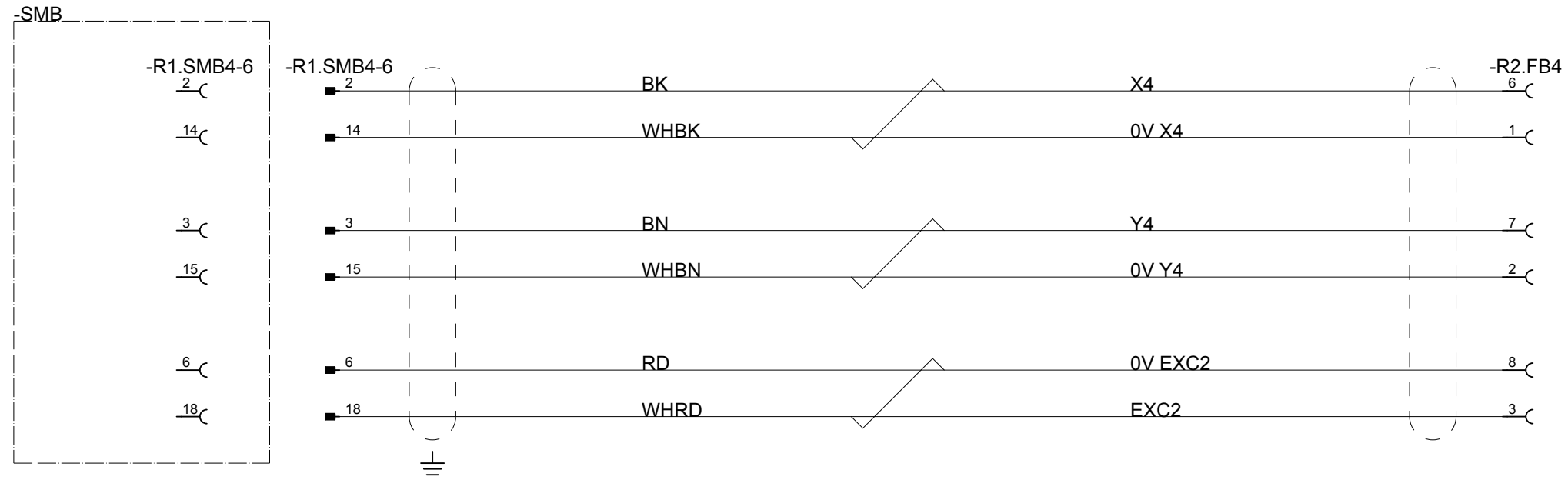
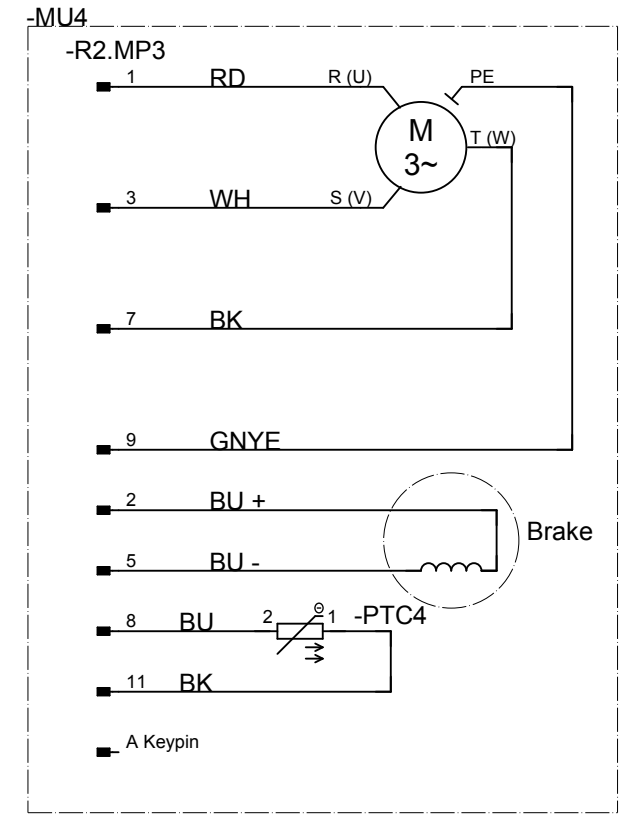
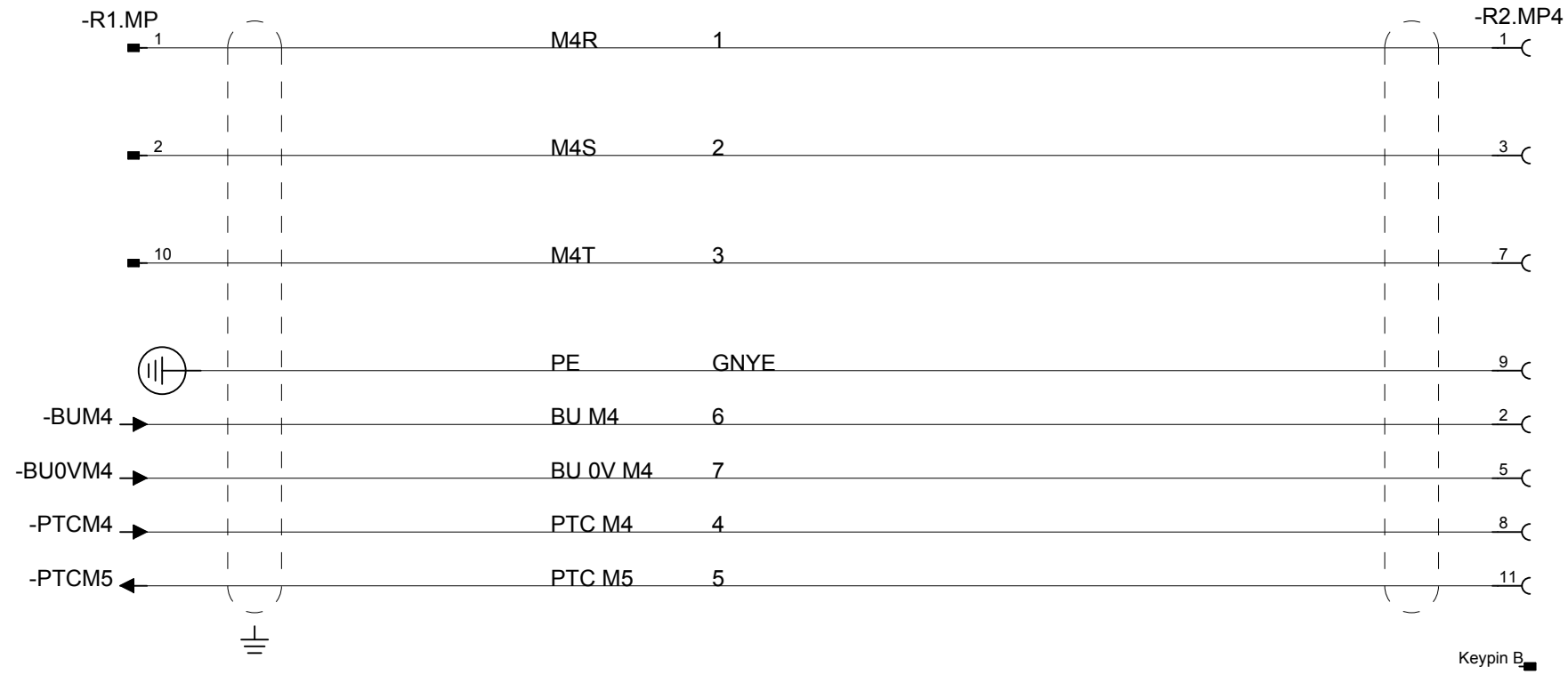
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Axis 4

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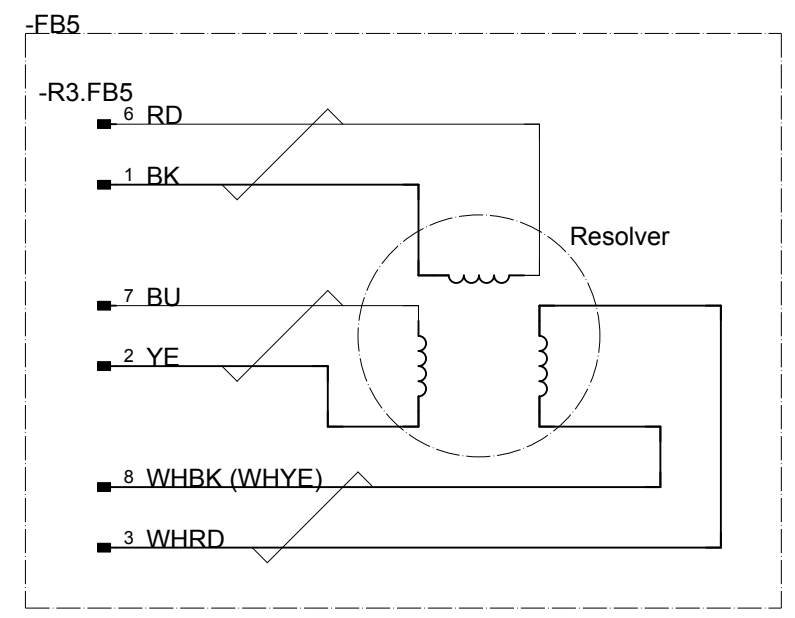
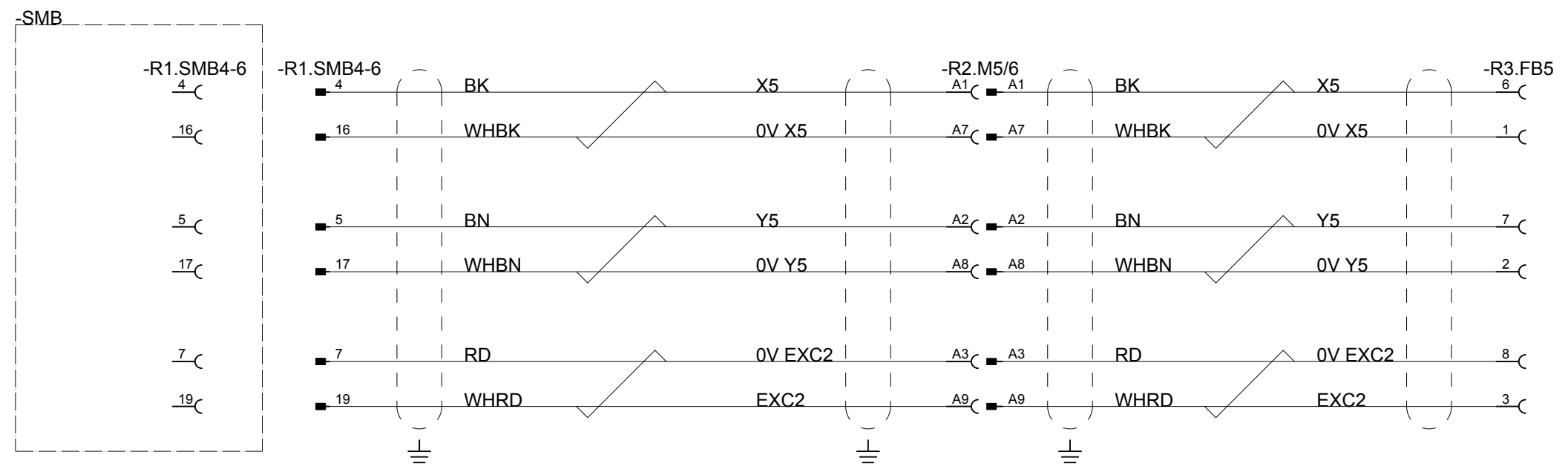
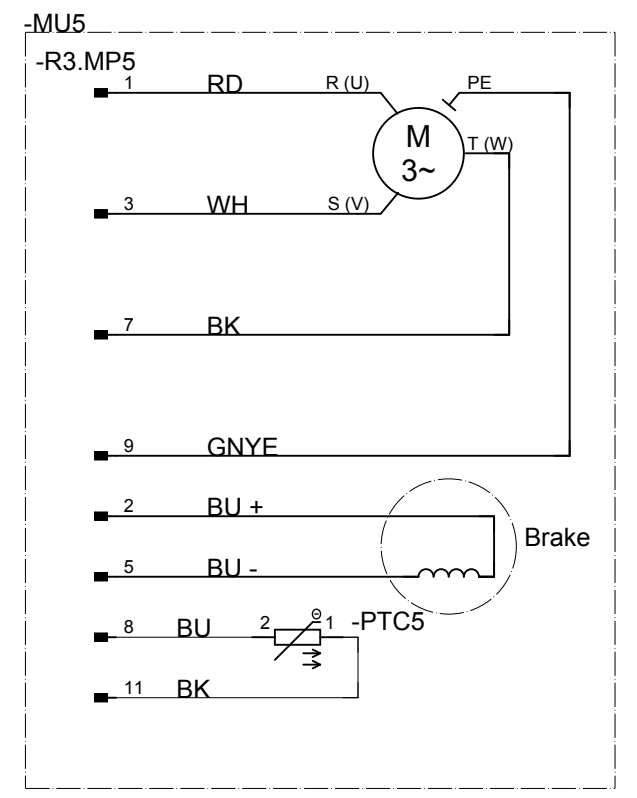
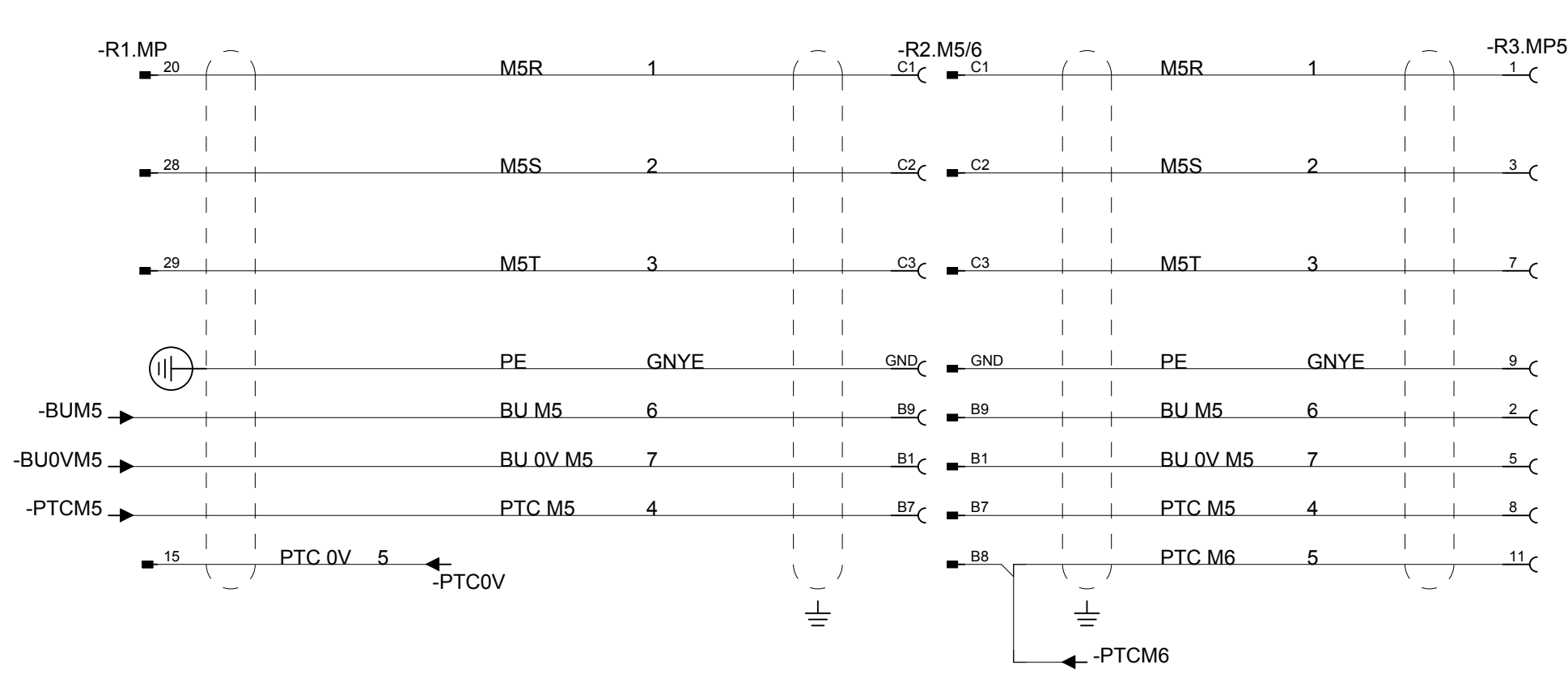
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IRB 66x0 / 7600  
 Axis 5, IRB 7600

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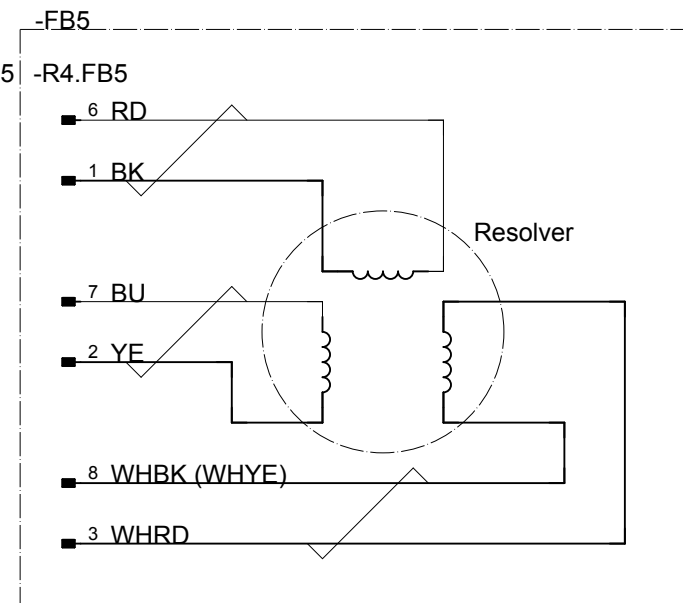
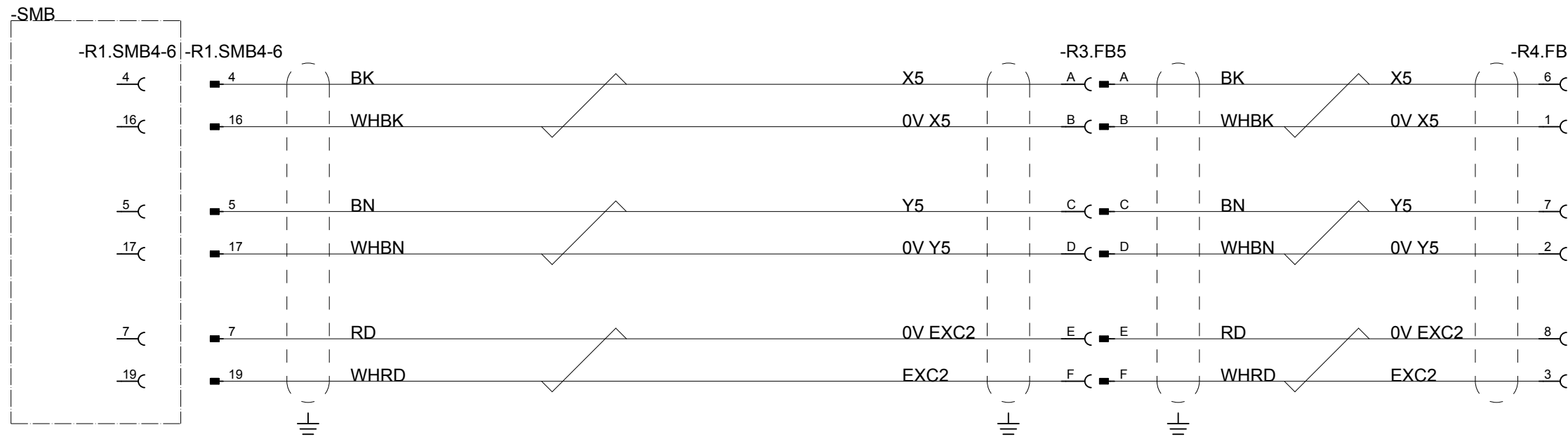
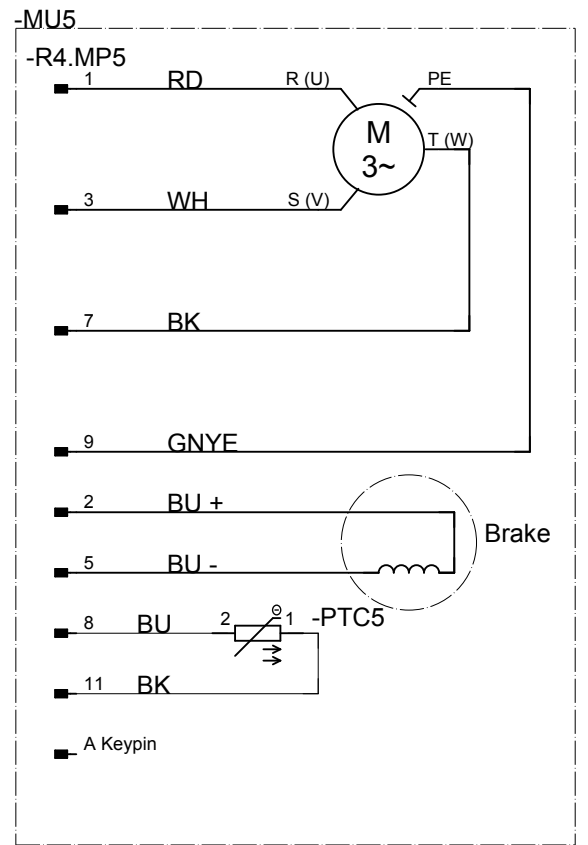
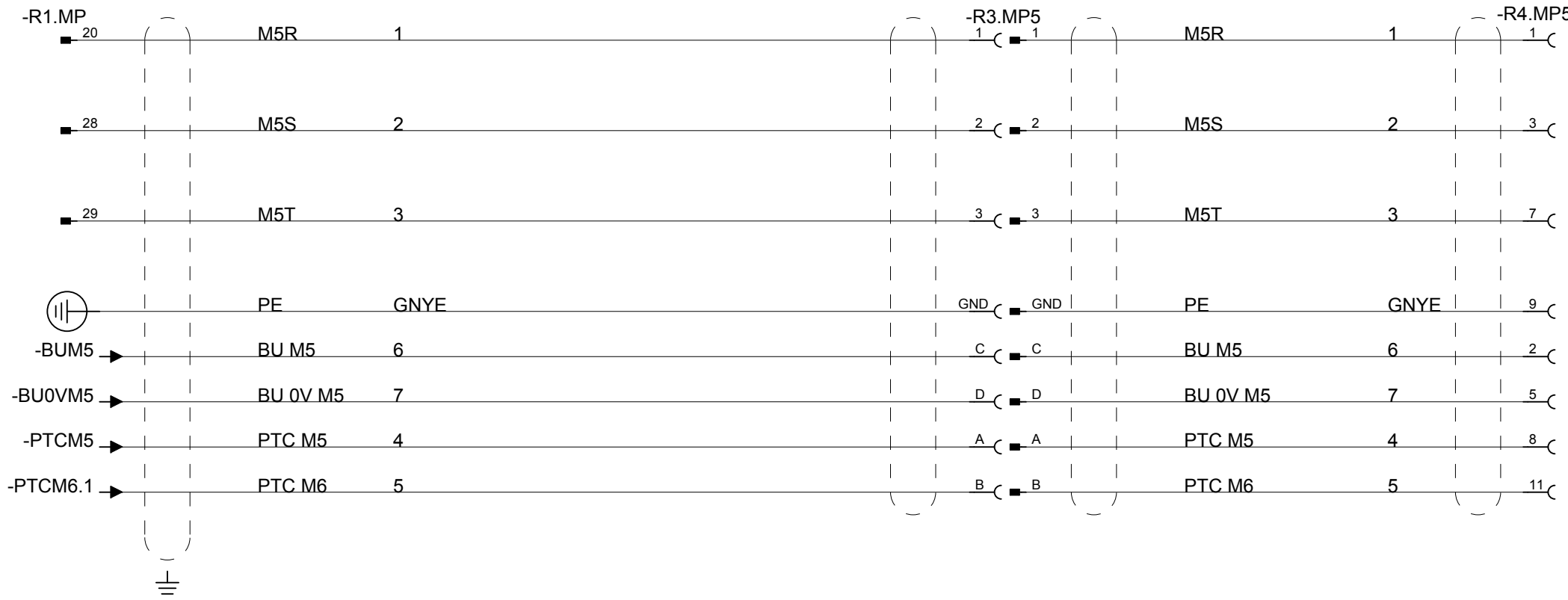
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Plant: = IRB7600  
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IRB 66x0 / 7600

Axis 5

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Location: + Axis 5

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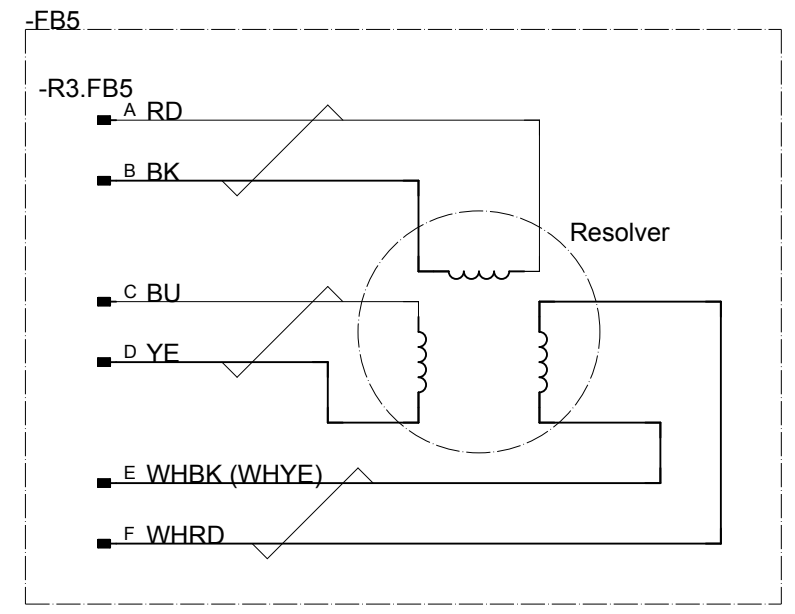
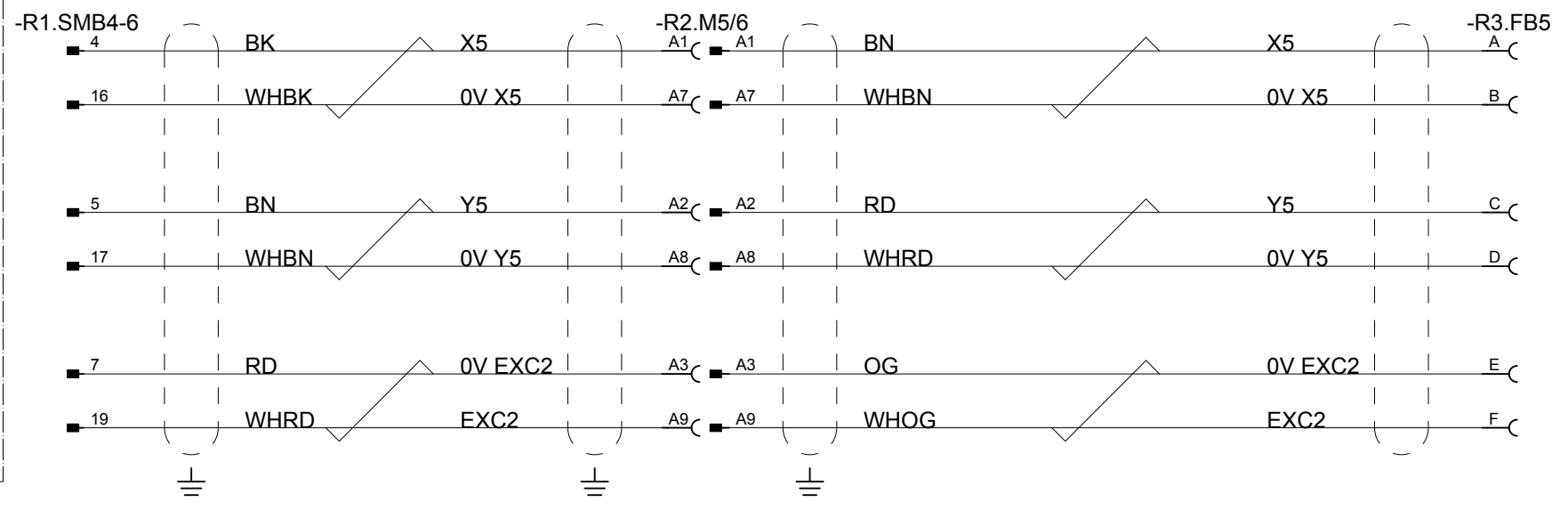
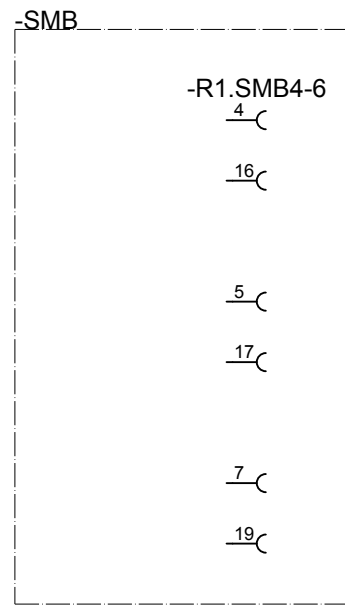
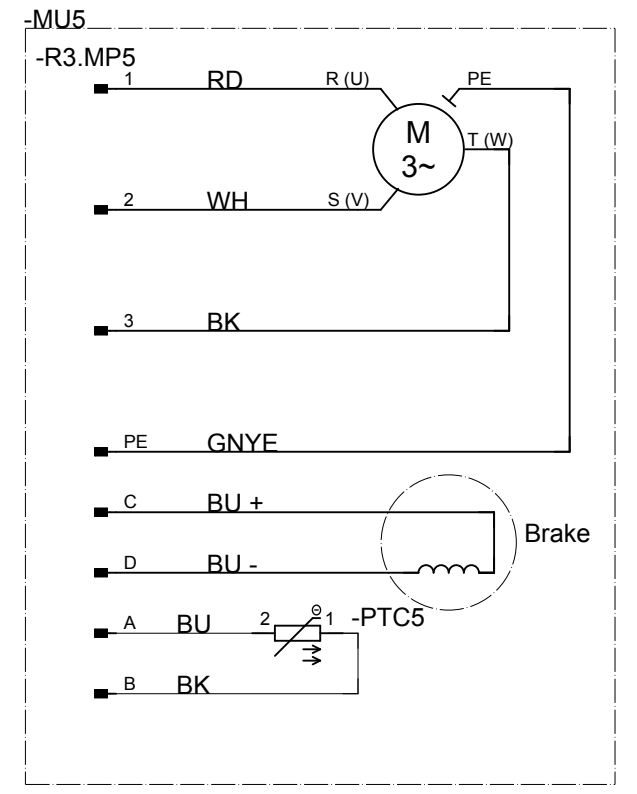
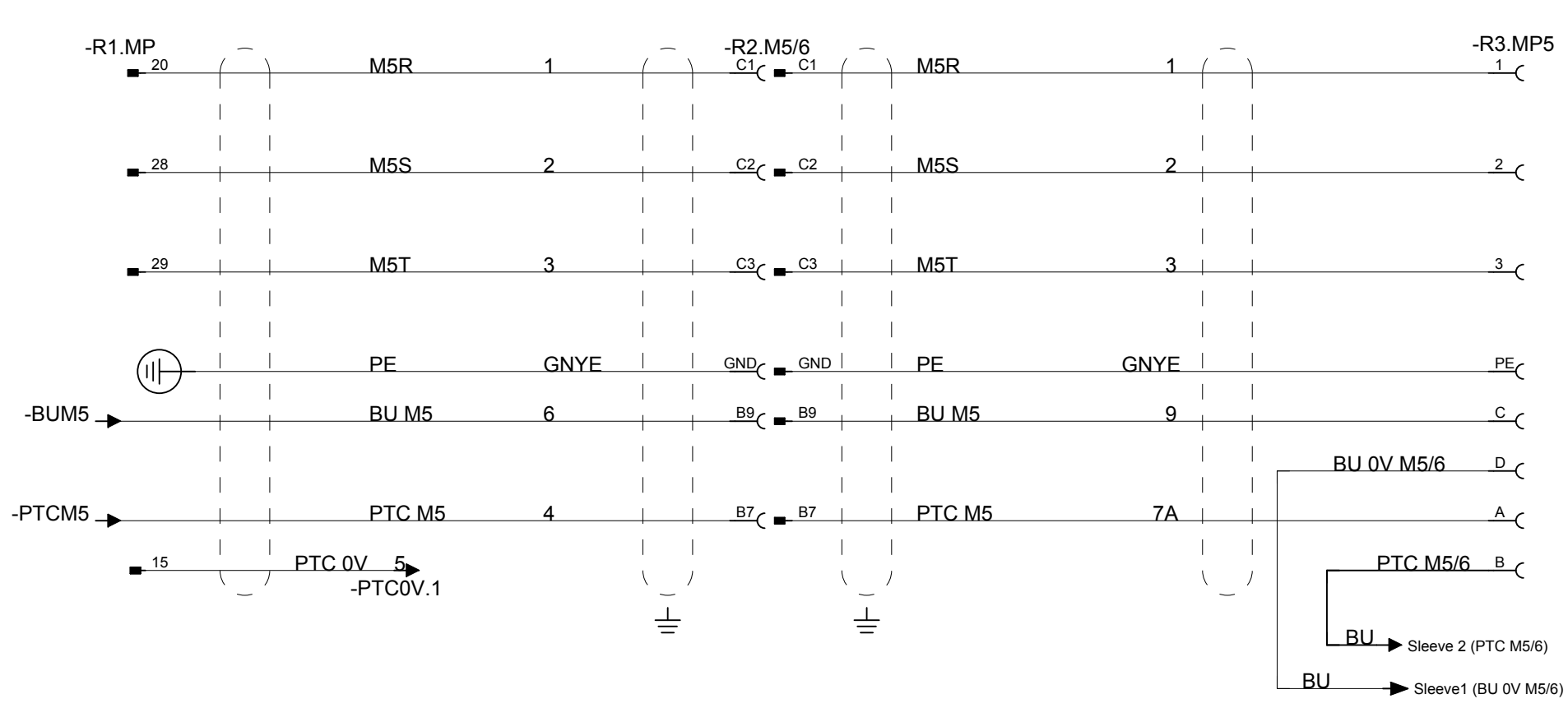
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IRB 66x0 / 7600  
 Axis 5, IRB 66X0ID

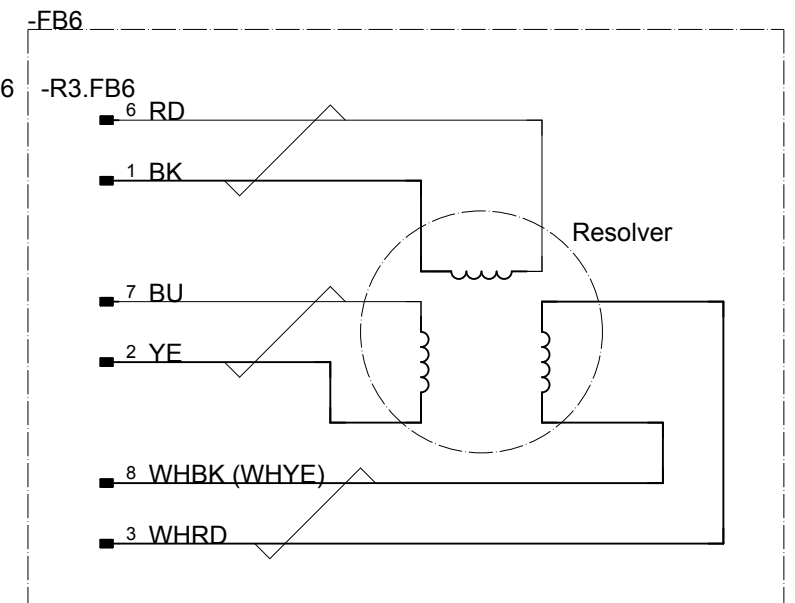
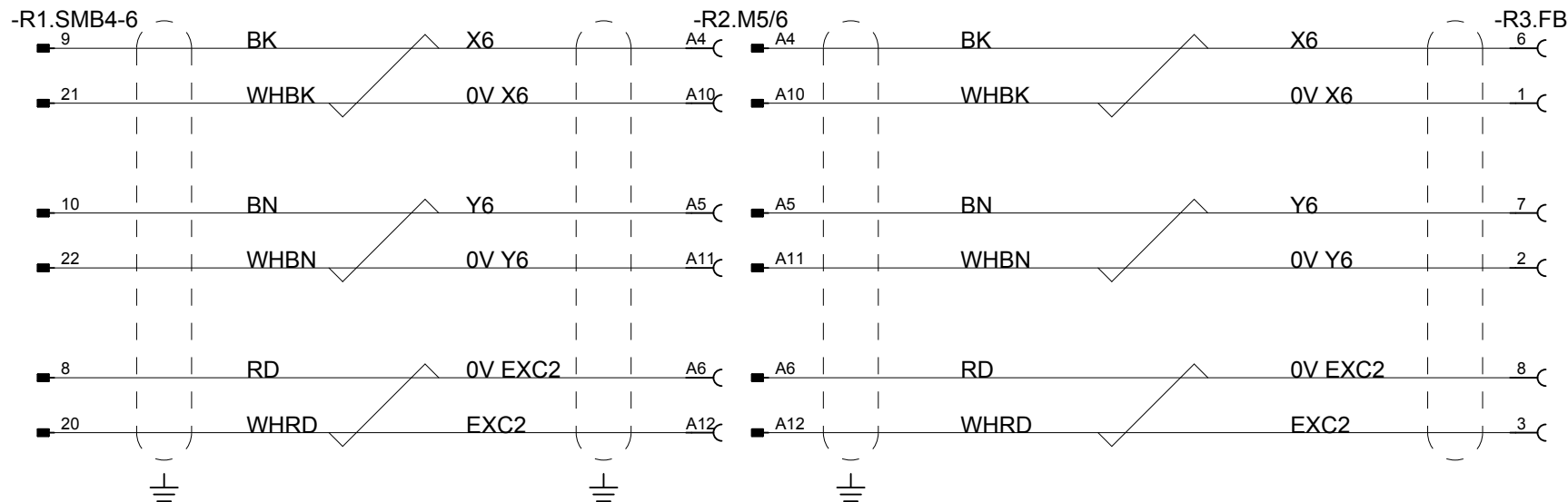
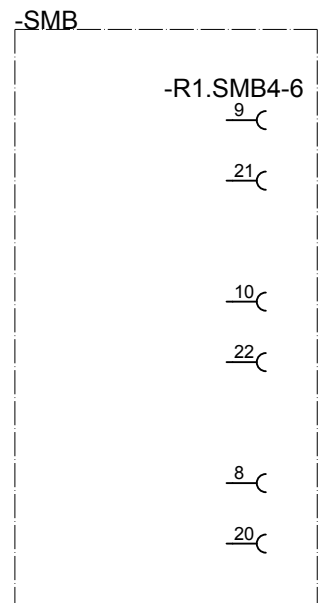
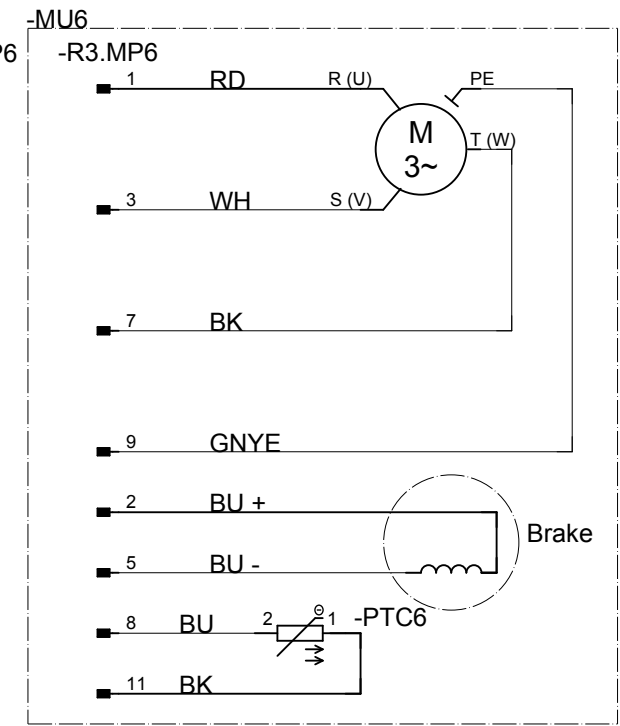
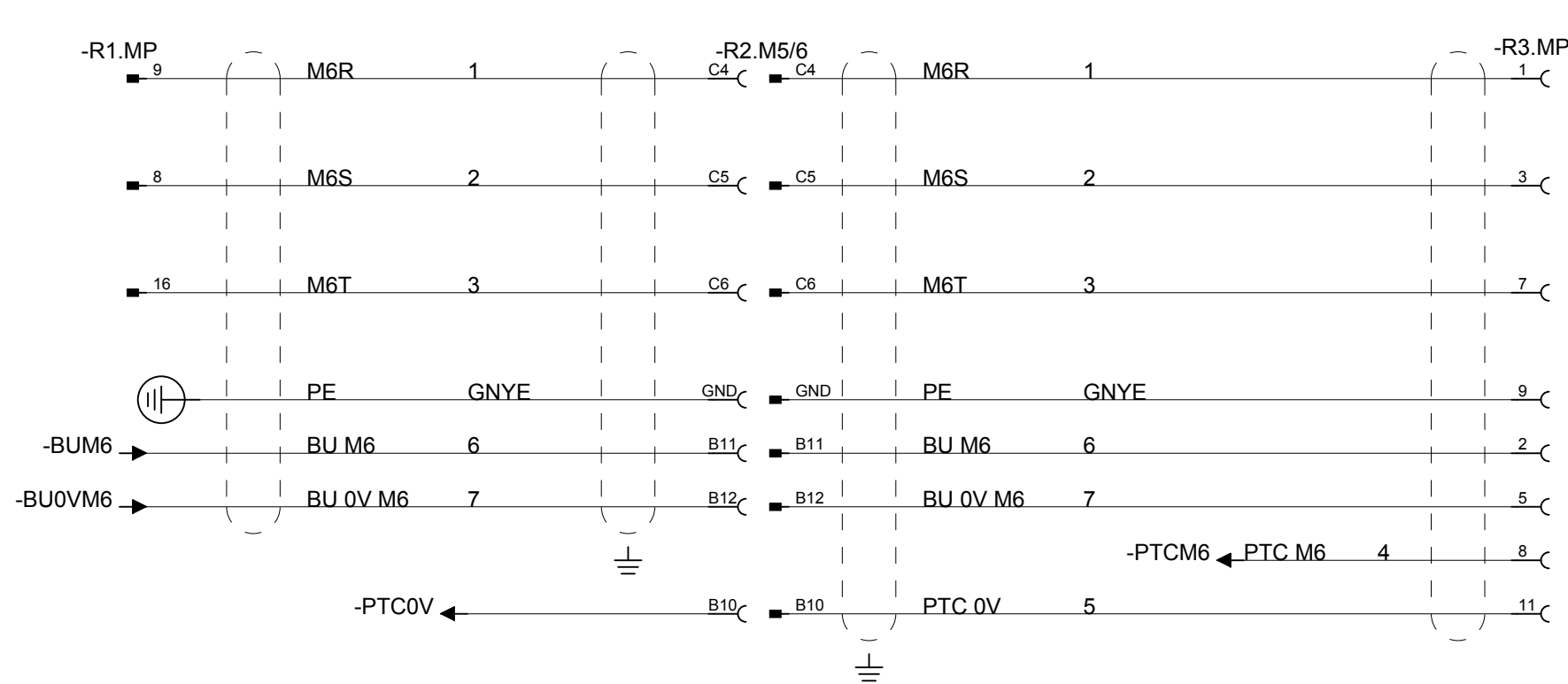
Status: 2020-04-09  
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Plant: = IRB66X0ID  
 Location: + Axis 5  
 Sublocation: +

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Document no. 3HAC025744-001  
 Rev. Ind 08  
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 =IRB7600-  
 Total 21

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 Page 3 column 1: Harness 3HAC075000-001 added.  
 Page 3 column 1: Harness 3HAC024386-001 changed.



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IRB 66x0 / 7600

Axis 6, IRB 7600

Status: 2020-04-09

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Plant: = IRB7600

Location: + Axis6

Sublocation: +

Rev. Ind

**08**

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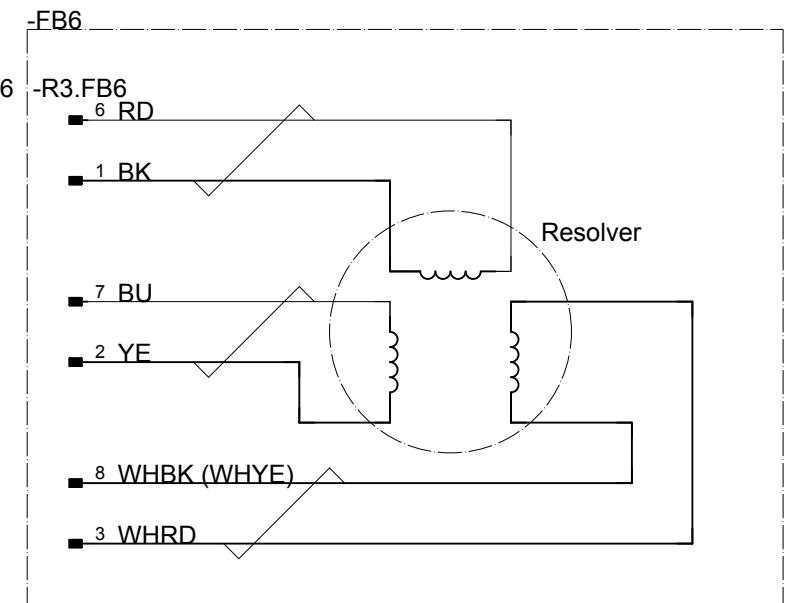
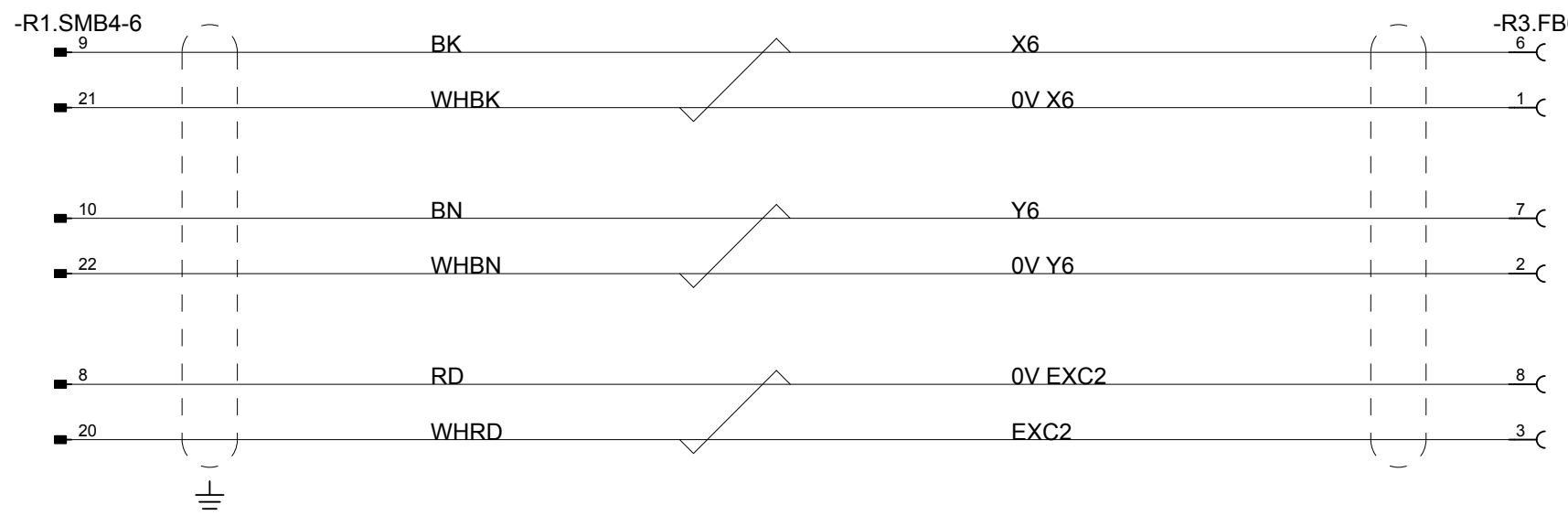
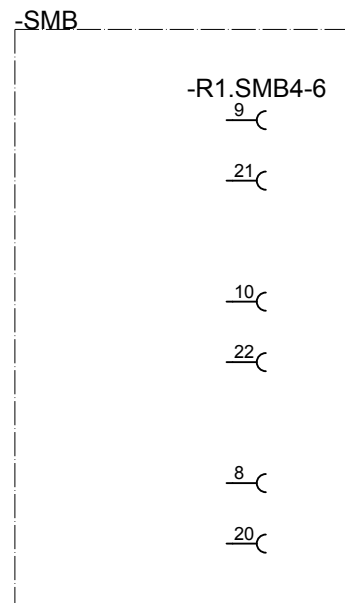
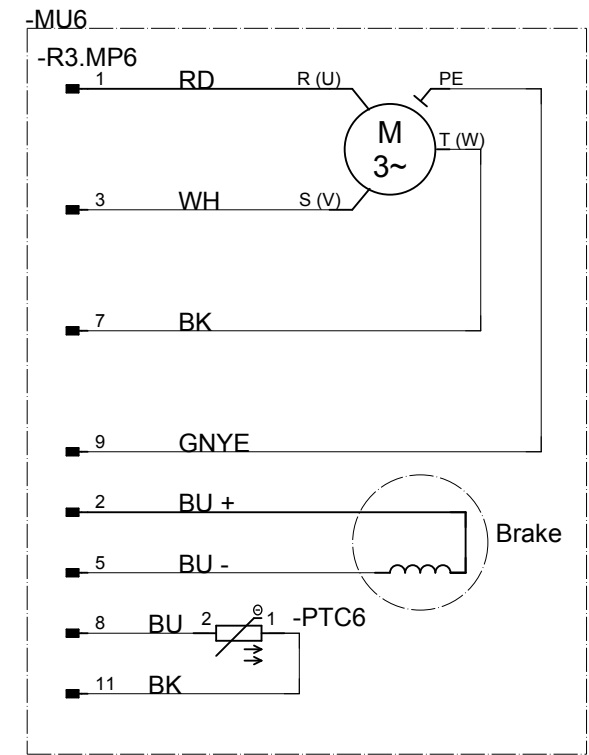
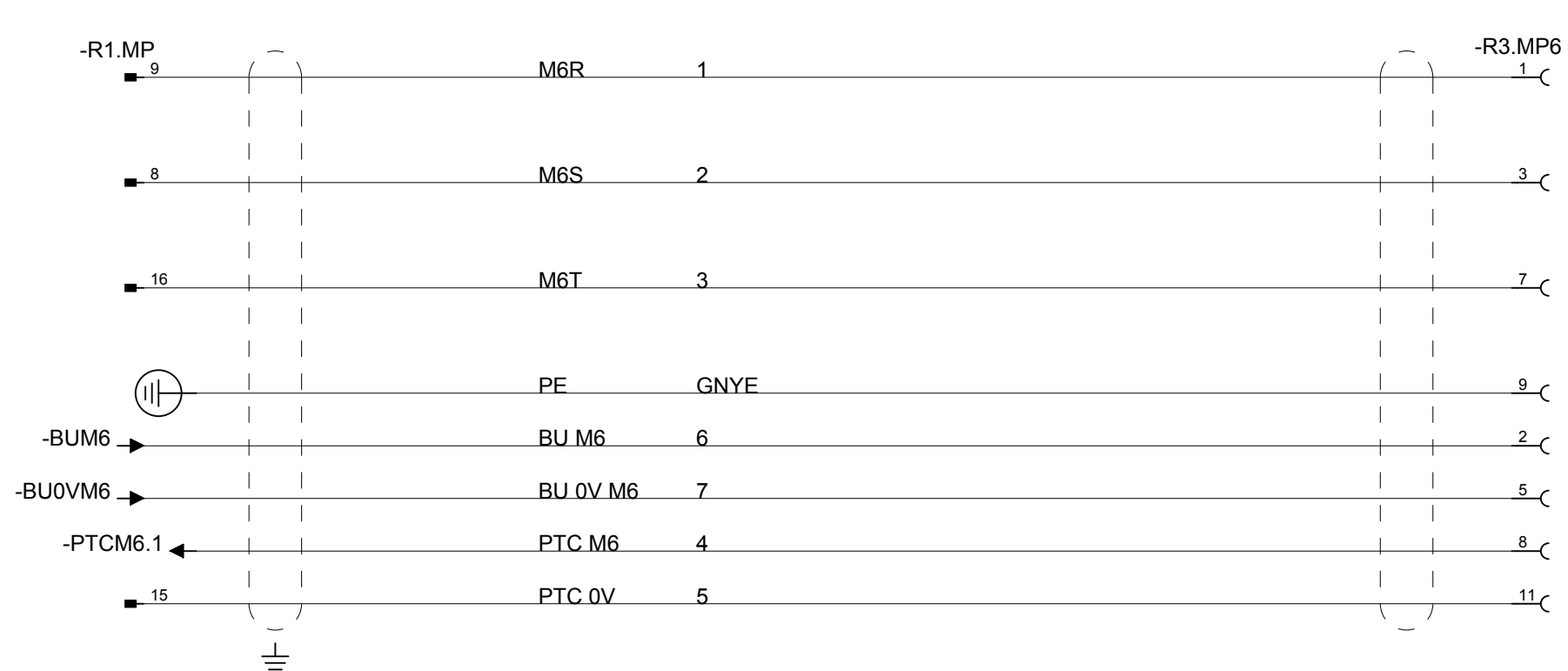
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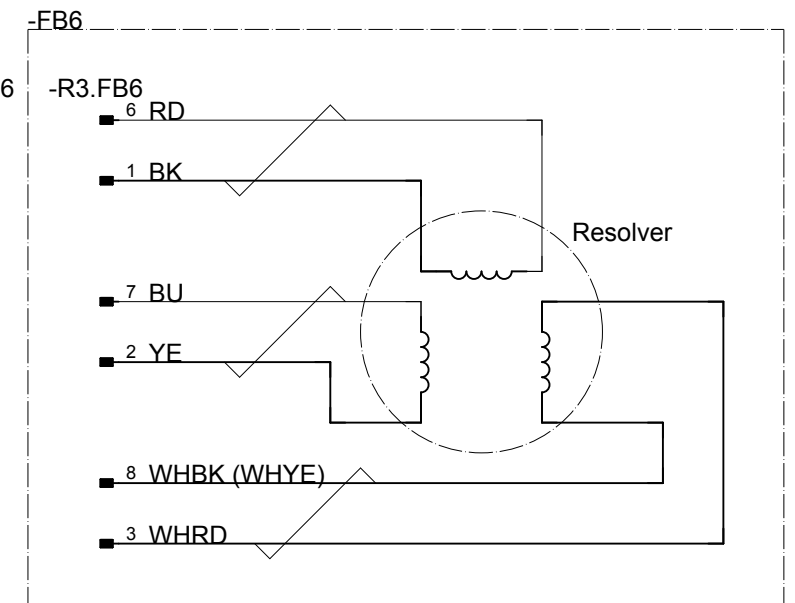
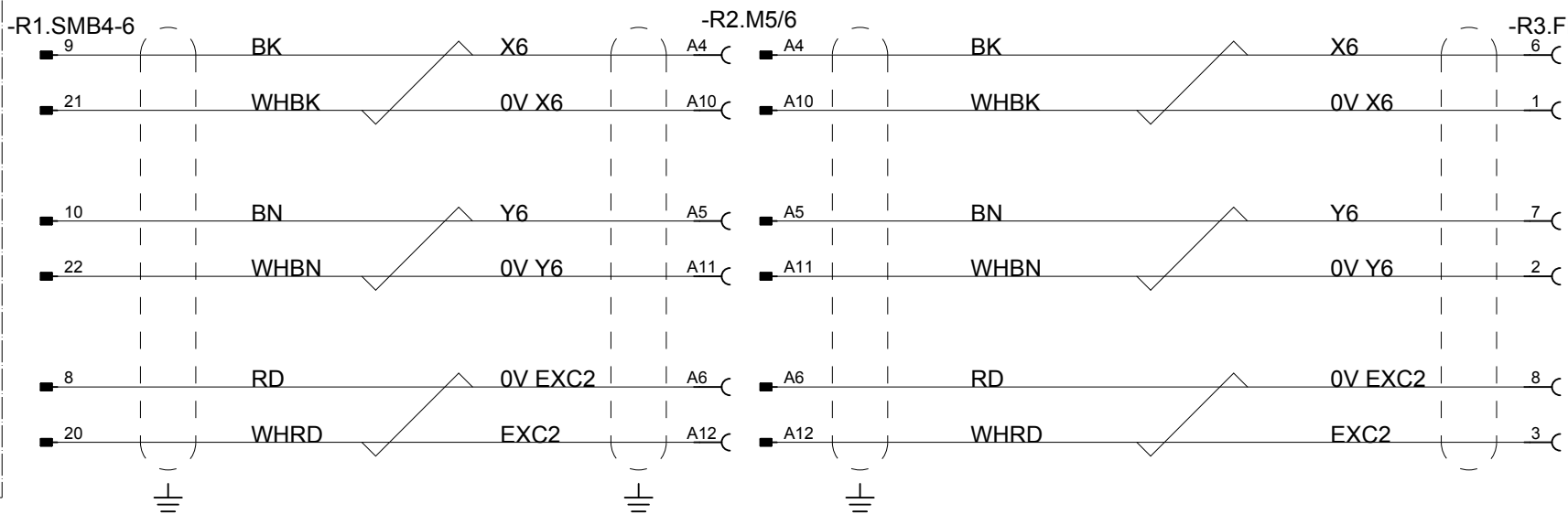
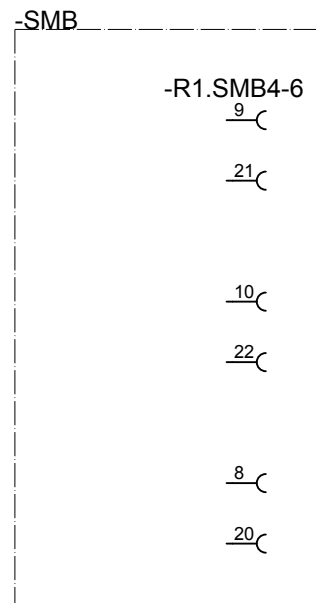
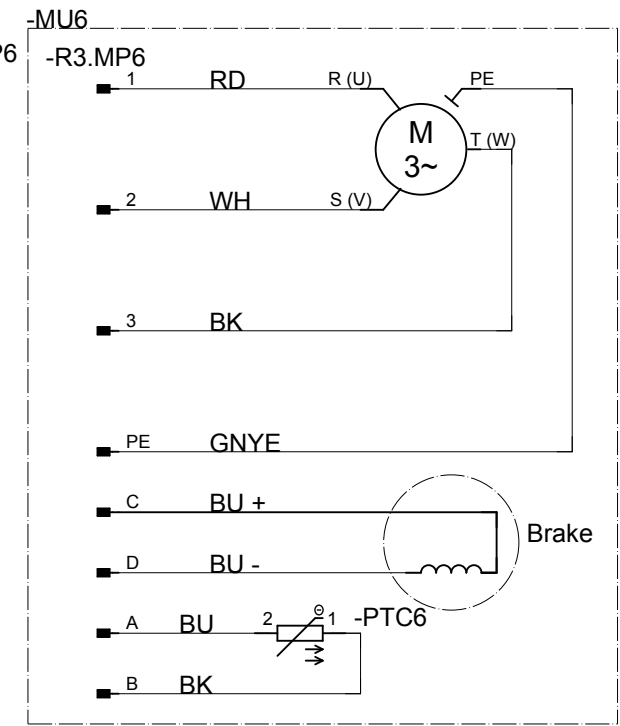
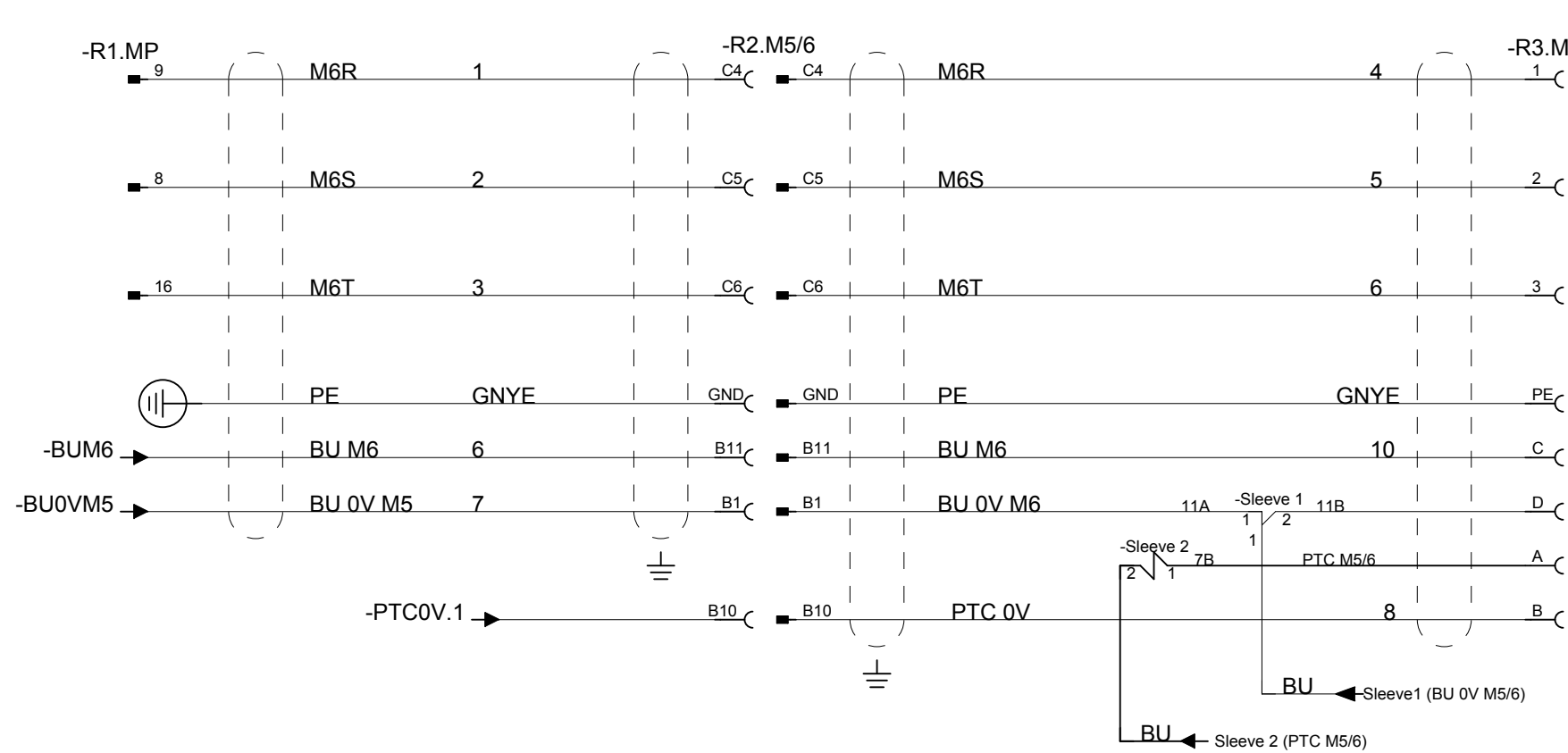
IRB 66x0 / 7600  
 Axis 6, IRB 66x0

Status: 2020-04-09  
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 Document no.  
 3HAC025744-001

Plant: = IRB66X0  
 Location: + Axis6  
 Sublocation: +

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IRB 66x0 / 7600

Axis 6, IRB 66X0ID

Status: 2020-04-09

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Document no.

3HAC025744-001

Plant: = IRB66X0ID

Location: + Axis6

Sublocation: +

Rev. Ind

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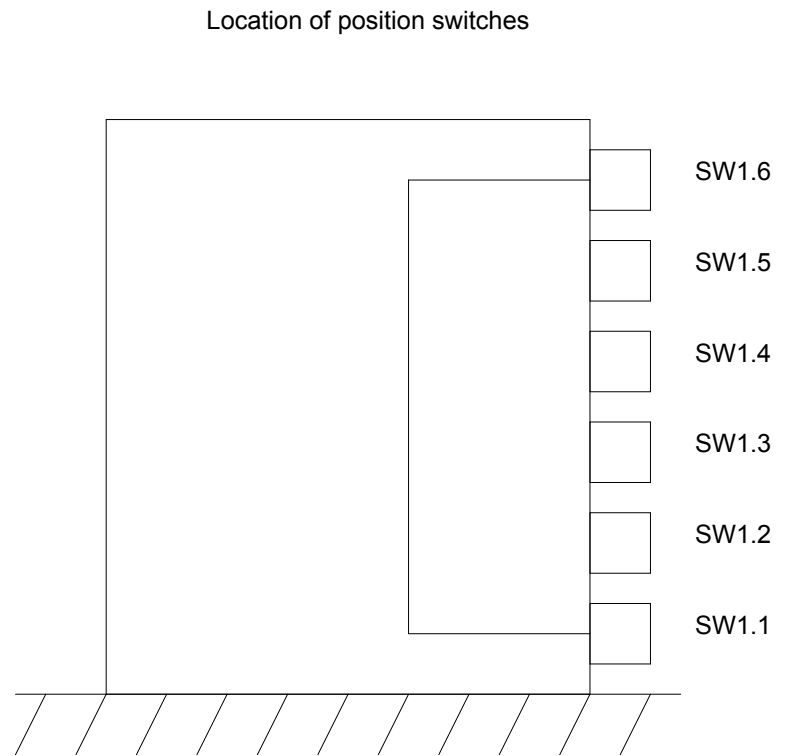
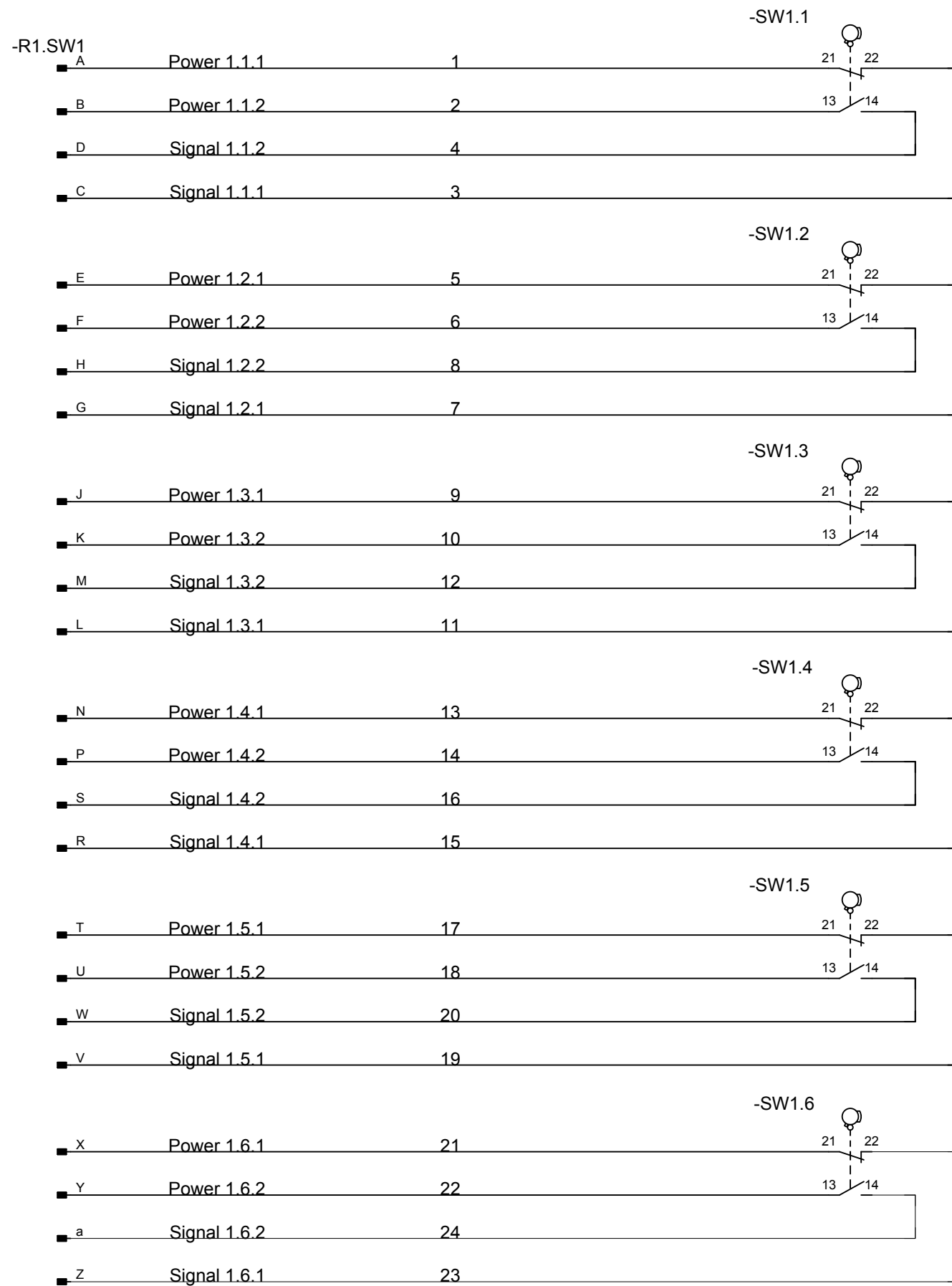
Page 120

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Position switches  
Axis 1

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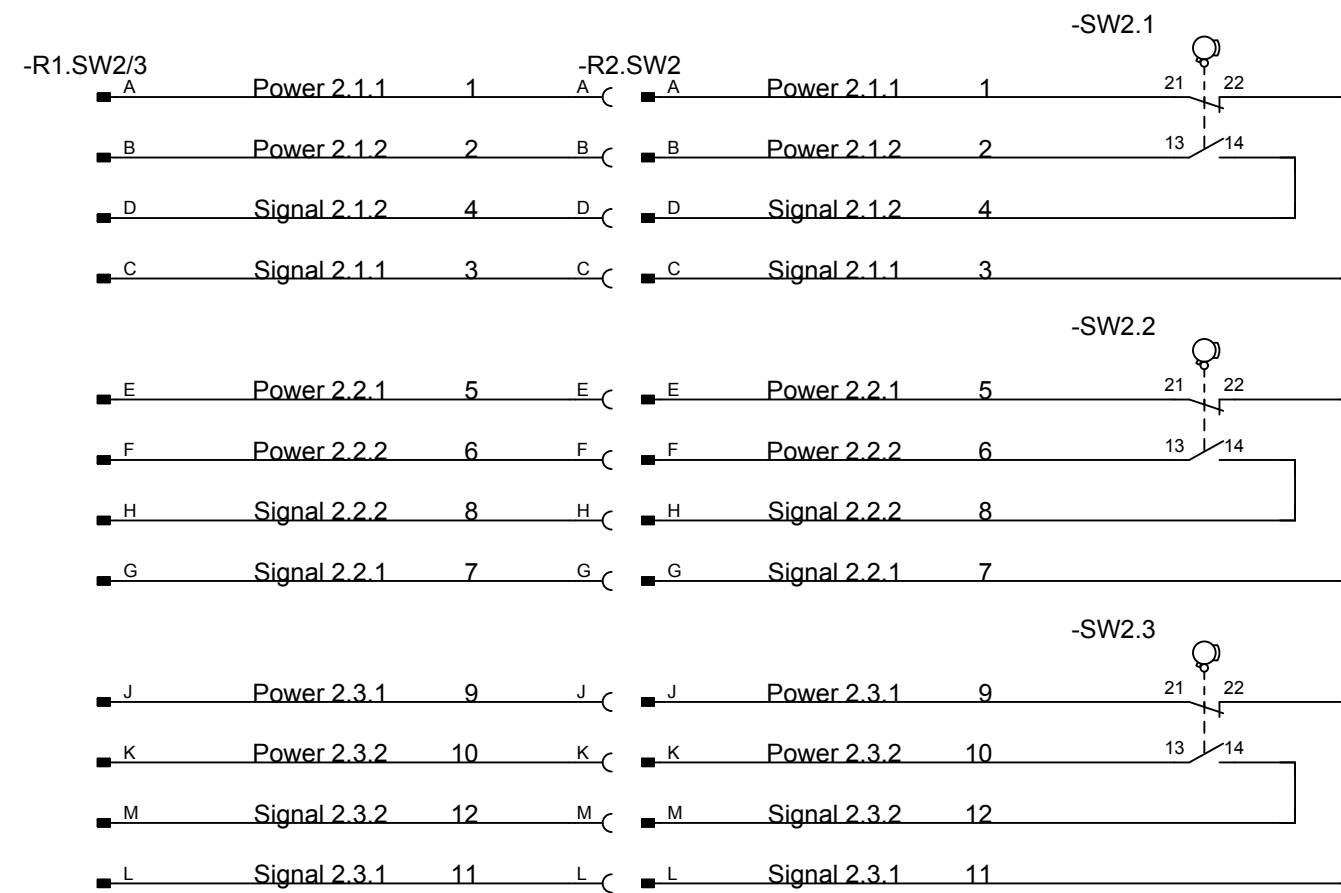
IRB 66x0 / 7600  
Pos. switch Axis 1, optional IRB 66X0/7600

Status: 2020-04-09  
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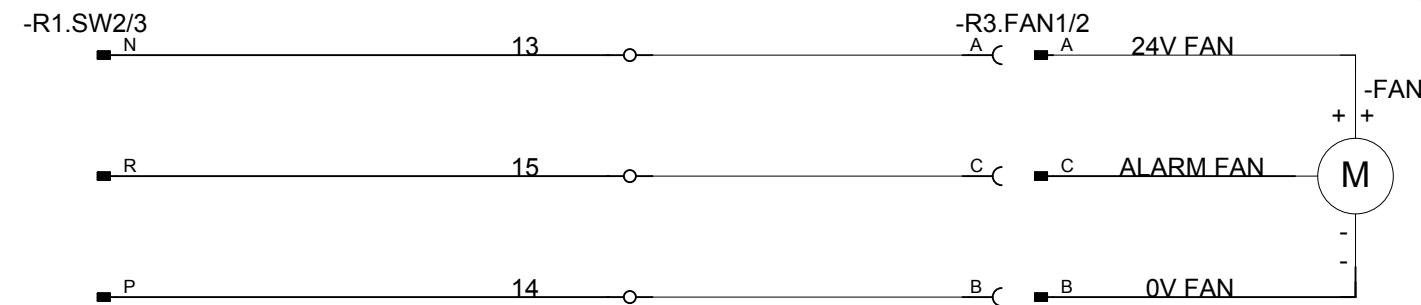
Plant: = IRB66X0/7600  
Location: + Option  
Sublocation: +

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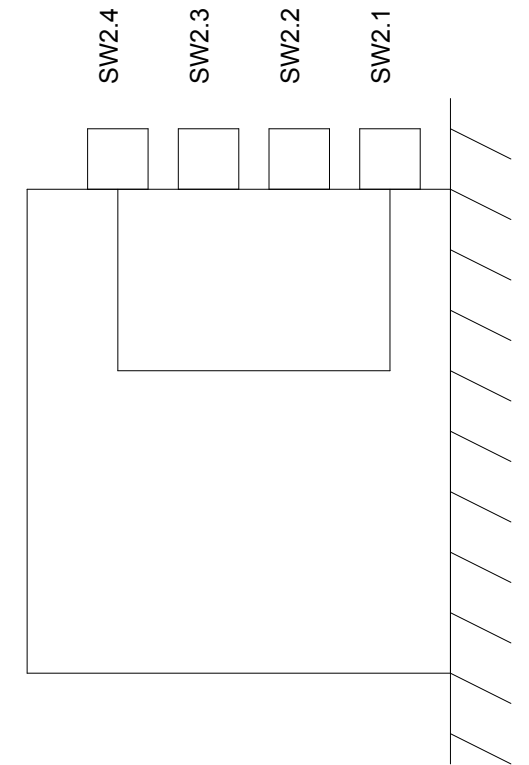


Position switches  
Axis 2



Fan axis 1 or 2

Location of position switches



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Page 3 column 1: Harness 3HAC075000-001 added.  
Page 3 column 1: Harness 3HAC024386-001 changed.



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IRB 66x0 / 7600

Pos. switch Axis 2, fan Axis 1 and 2, optional IRB 66x0/7600

Status: 2020-04-09

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Document no.

3HAC025744-001

Plant: = IRB66X0/7600

Location: + Option

Sublocation: +

Rev. Ind

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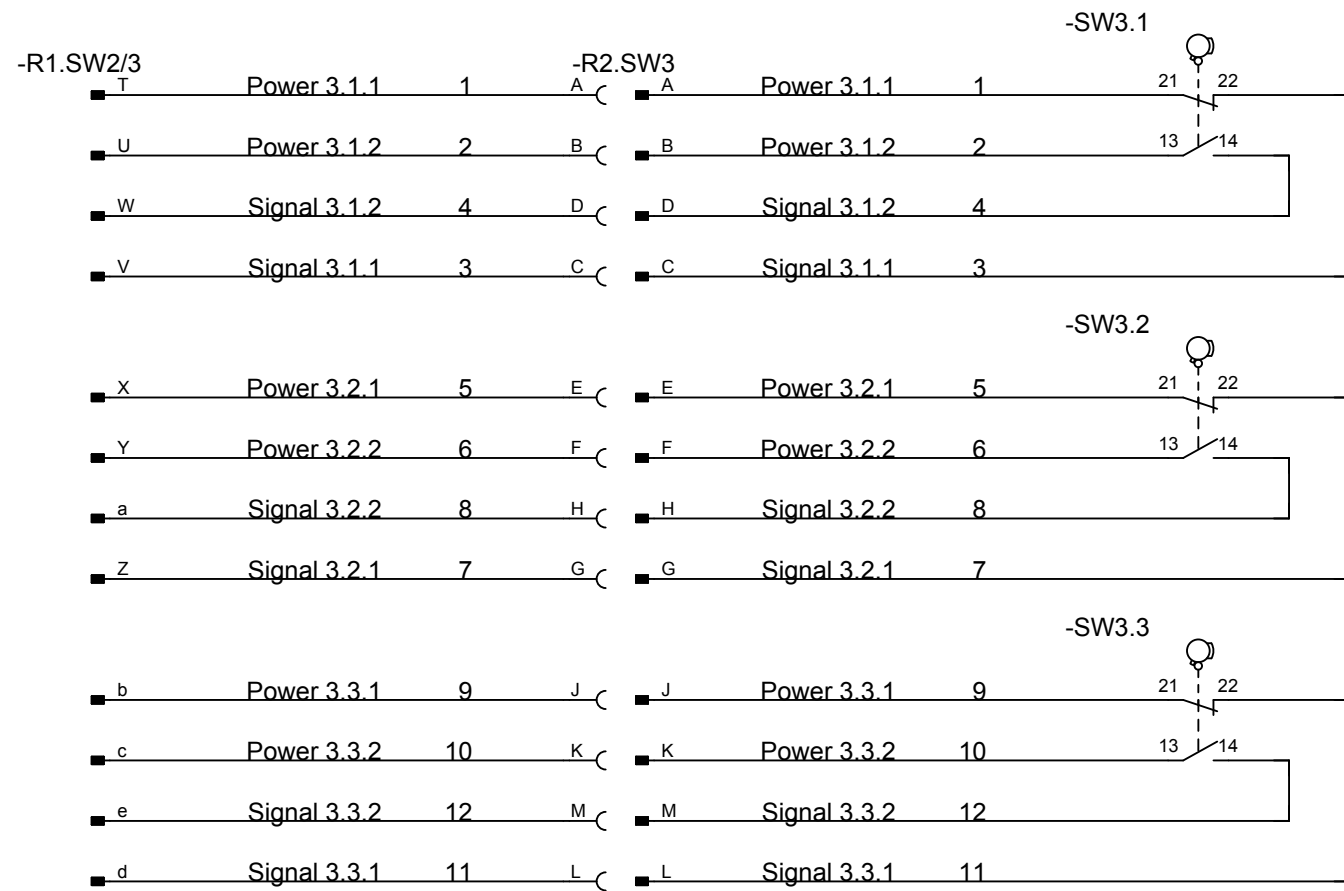
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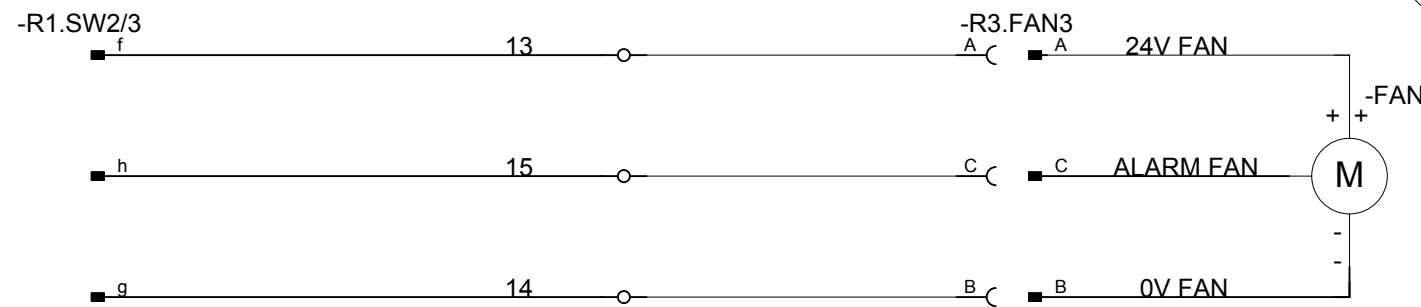
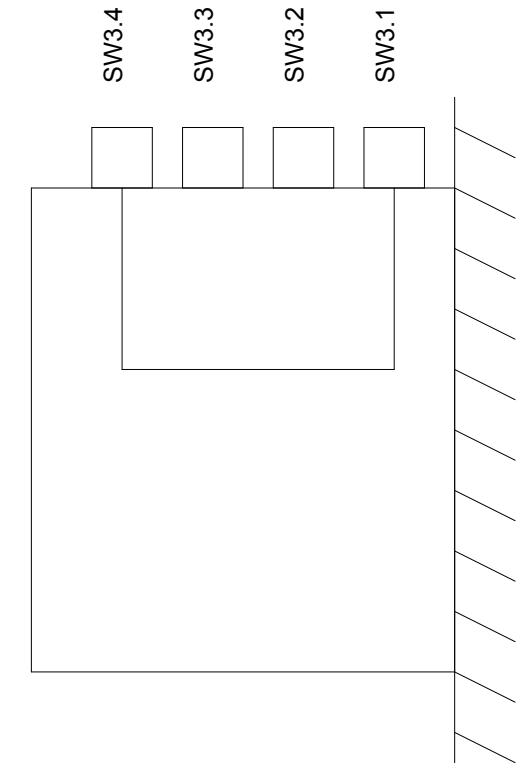
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Position switches  
Axis 3

Location of Position switches



Fan axis 3

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IRB 66x0 / 7600

Pos. switch Axis 3, fan Axis 3, optional IRB 66x0/7600

Status: 2020-04-09

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Document no.

3HAC025744-001

Plant: = IRB66X0/7600

Location: + Option

Sublocation: +

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