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ABB AB

SE-721 68 Västerås
Sweden

Latest revision: ECO 85155, WI 132120
Pg 53: Variant LX added.
Pg 56: Variant LX added.
Pg 250-251: Pages added.



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IRB6620/IRB6620LX & IRC5

Status: 2016-11-11

Plant: = SP
Location: +
Sublocation: +

APPROVED

Document no.

3HAC026136-001

Rev. Ind

09

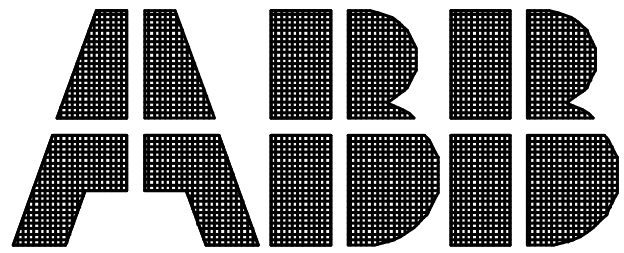
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Total 45

Prepared by, date: Erik Mesaros Approved by, date: JanErik Nähls

DRESS PACK



Customer :
 Robot serial number(s) :
 Drawing number :
 Drawing version :

Manufacture :
 Type :
 Type of installation :
 Control cabinet :
 Mains voltage :
 Supply :
 Control voltage :
 Year of construction :

Project start :
 Project manager :
 Last revision :
 Designed by :
 Designed date :
 Number of pages :

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TITLE PAGE

DRESS PACK

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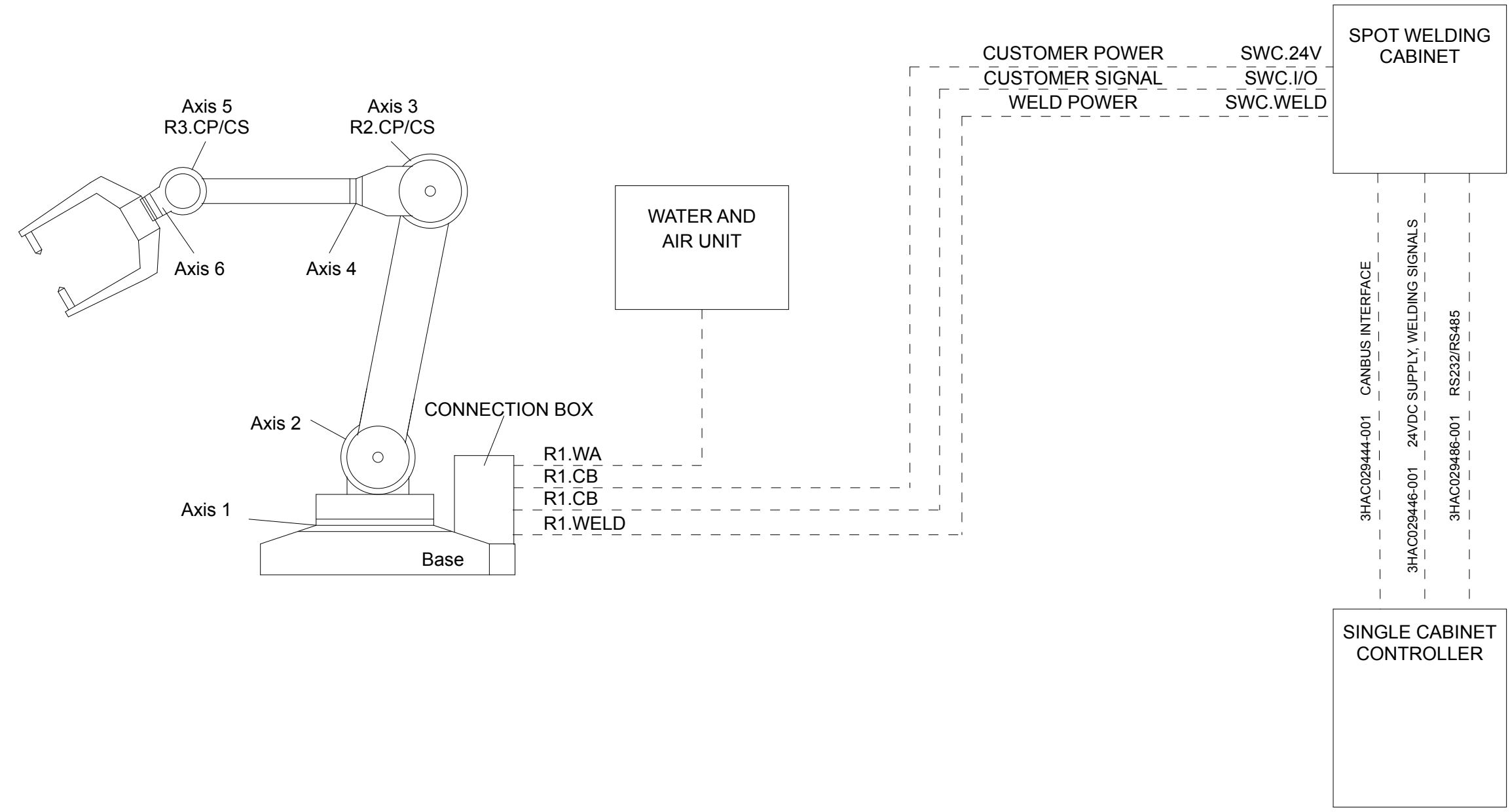
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Prepared by, date: Erik Mesaros | Approved by, date: JanErik Nähls

BLOCK DIAGRAM TYPE S (pneumatic gun)
 IRBDP SW5
 Single cabinet controller, IRC5: See circuit diagram, 3HAC024480-004.
 Dashed cables: See circuit diagram SpotPack, 3HAC026208-001



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REGION E



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BLOCK DIAGRAM TYPE S - IRBDP SW5

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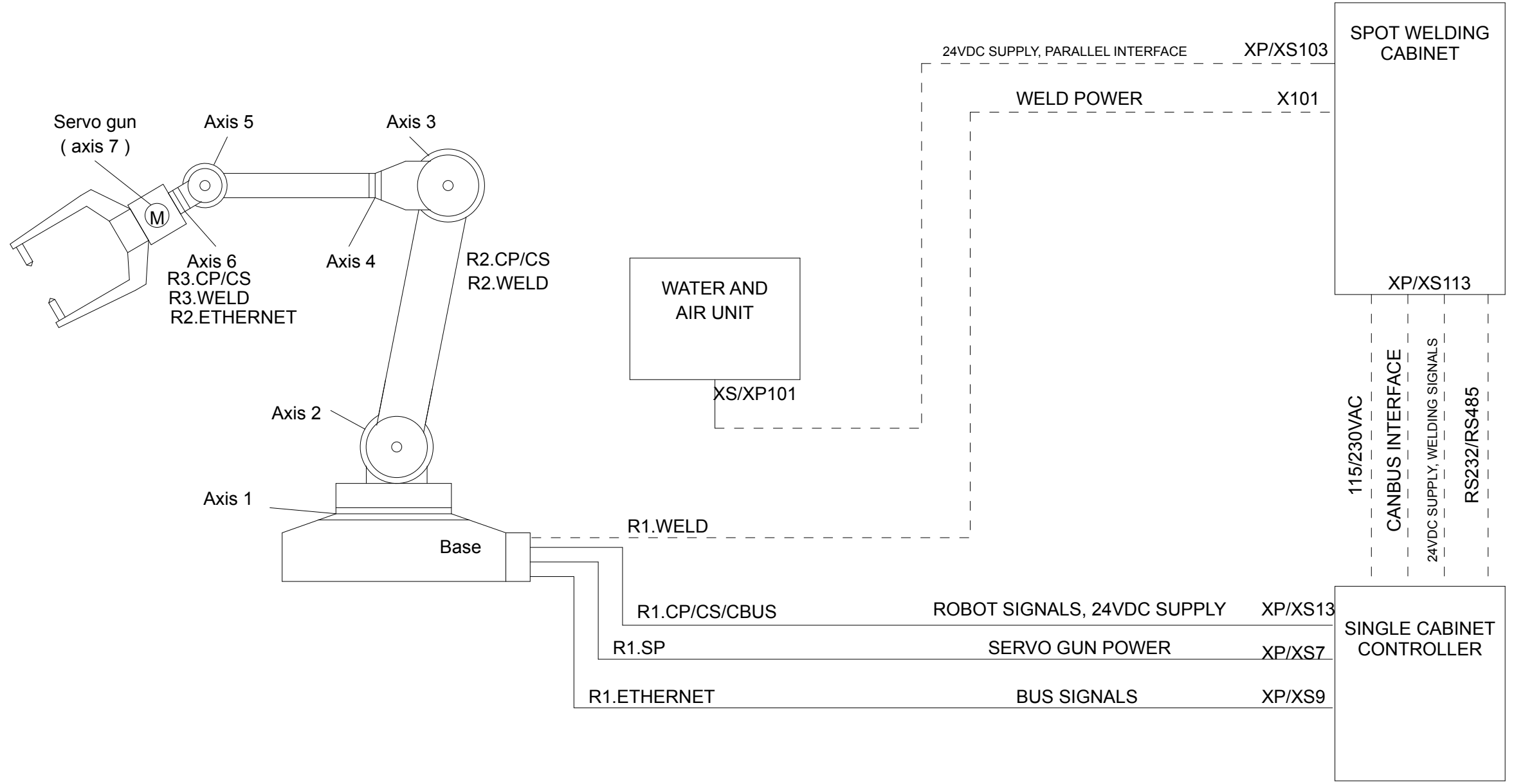
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Prepared by, date: Erik Mesaros Approved by, date: JanErik Nähls

BLOCK DIAGRAM TYPE Se (servo gun)
 IRBDP SW2
 Single cabinet controller, IRC5: See circuit diagram, 3HAC024480-004.
 Dashed cables: See circuit diagram SpotPack, 3HAC026208-001



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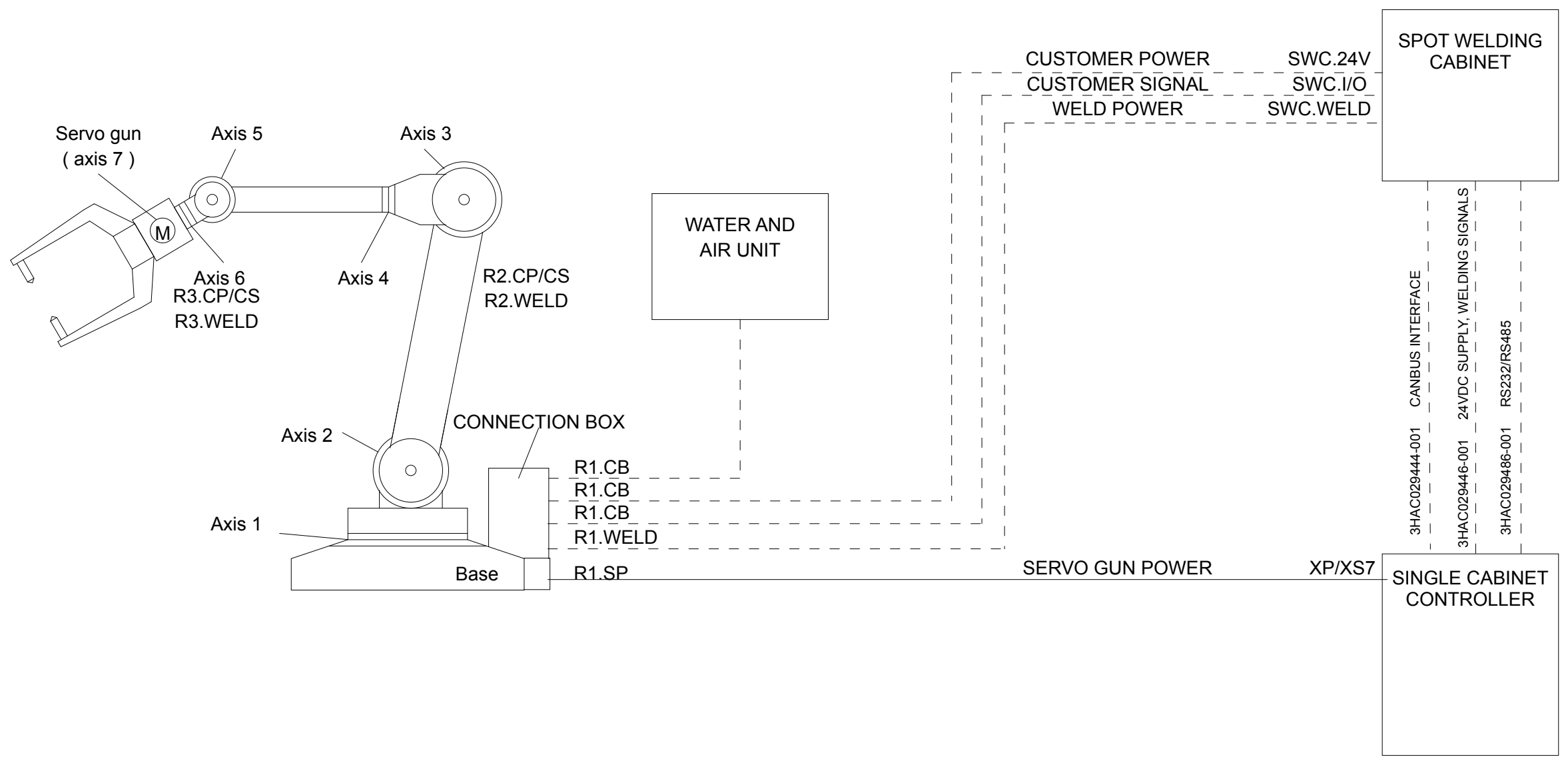
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BLOCK DIAGRAM TYPE Se (servo gun)
 IRBDP SW5
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 Dashed cables: See circuit diagram SpotPack, 3HAC026208-001

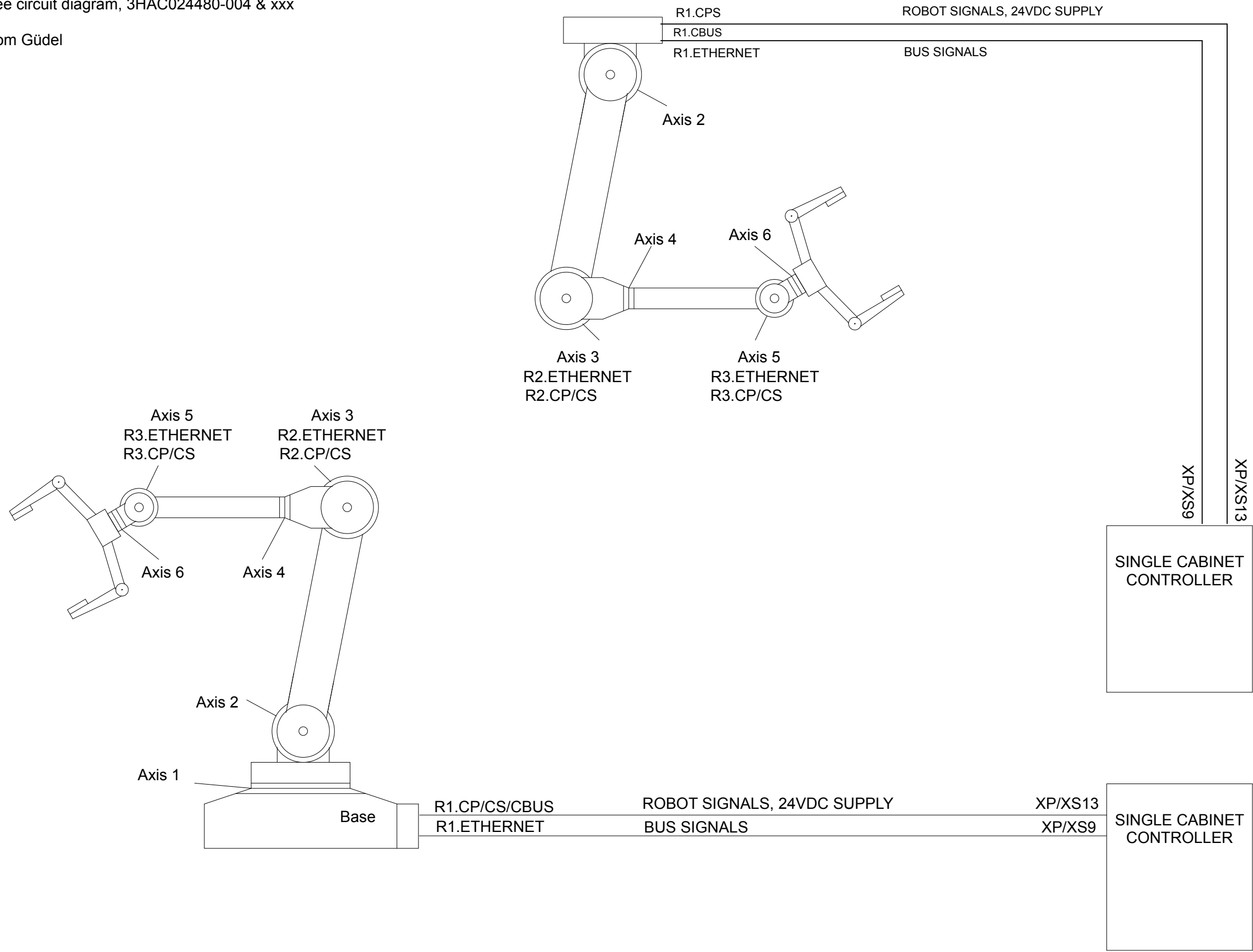


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| | | | | | Prepared by, date: Erik Mesaros | Approved by, date: JanErik Nähls | XP/XS7 | 3HAC029444-001 CANBUS INTERFACE 3HAC029446-001 24VDC SUPPLY, WELDING SIGNALS 3HAC029486-001 RS232/RS485 | |

BLOCK DIAGRAM TYPE H
 IRB6620 / IRB6620LX¹
 Single cabinet controller, IRC5: See circuit diagram, 3HAC024480-004 & xxx

¹=LX stands for Linear axis unit from Güdel



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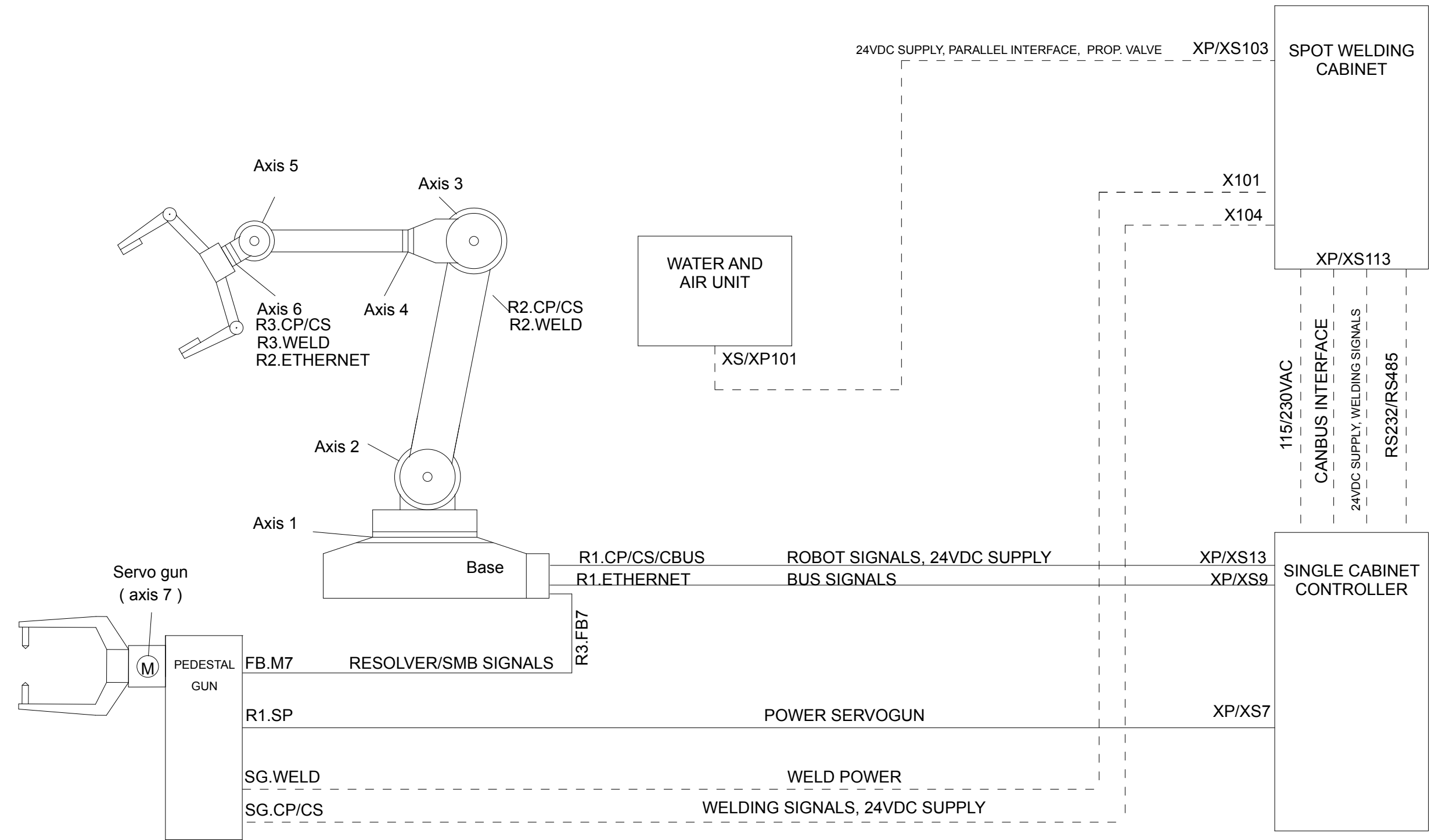
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BLOCK DIAGRAM TYPE HSe (material handling and servo gun)
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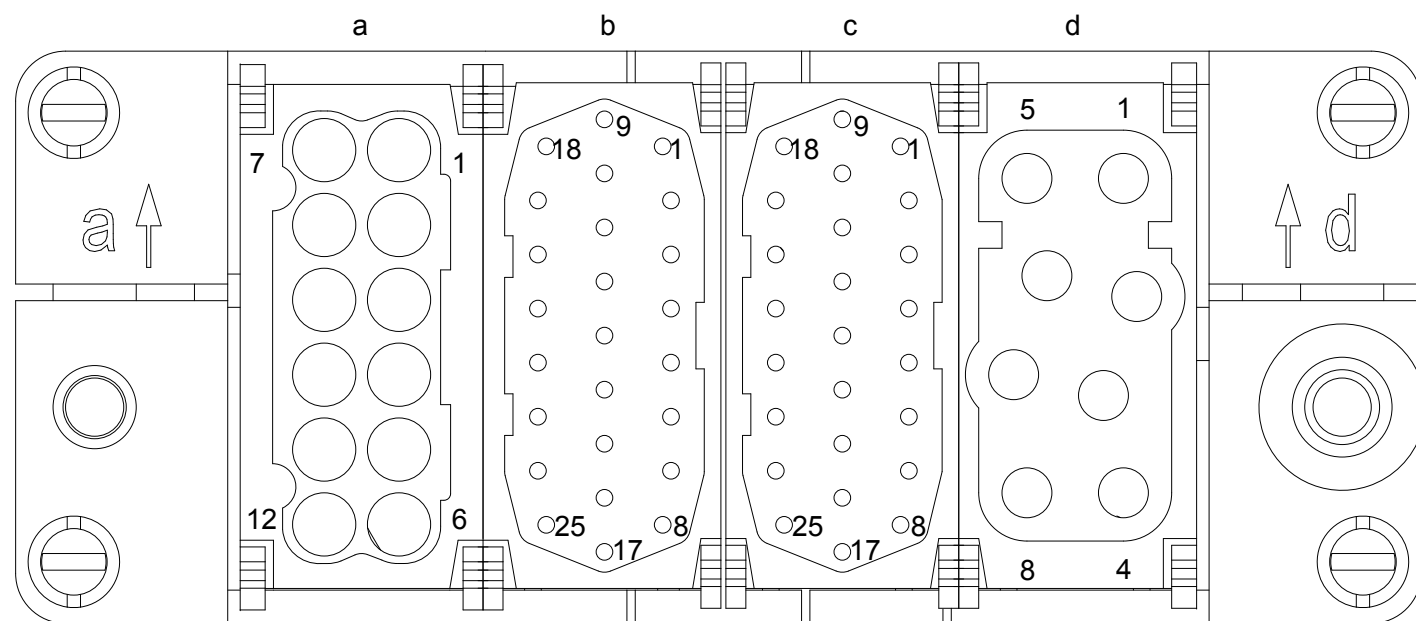


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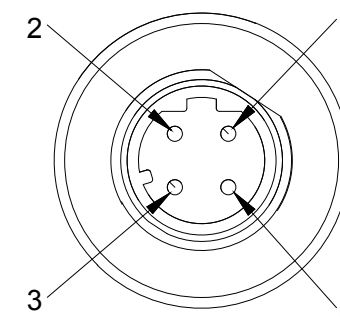
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| | | | | Document no. 3HAC026136-001 | Rev. Ind 09 |
| Prepared by, date: Erik Mesaros | Approved by, date: JanErik Nähls | | | | |

BLOCK DIAGRAM TYPE Se/HSe (on the robot)

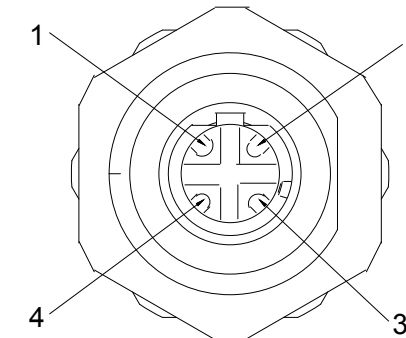
Male (R1.CP/CS)



Male 4p
R2.ETHERNET
R3.ETHERNET



Female 4P
R1.ETHERNET
R2.ETHERNET



HARTING HAN MODULE/

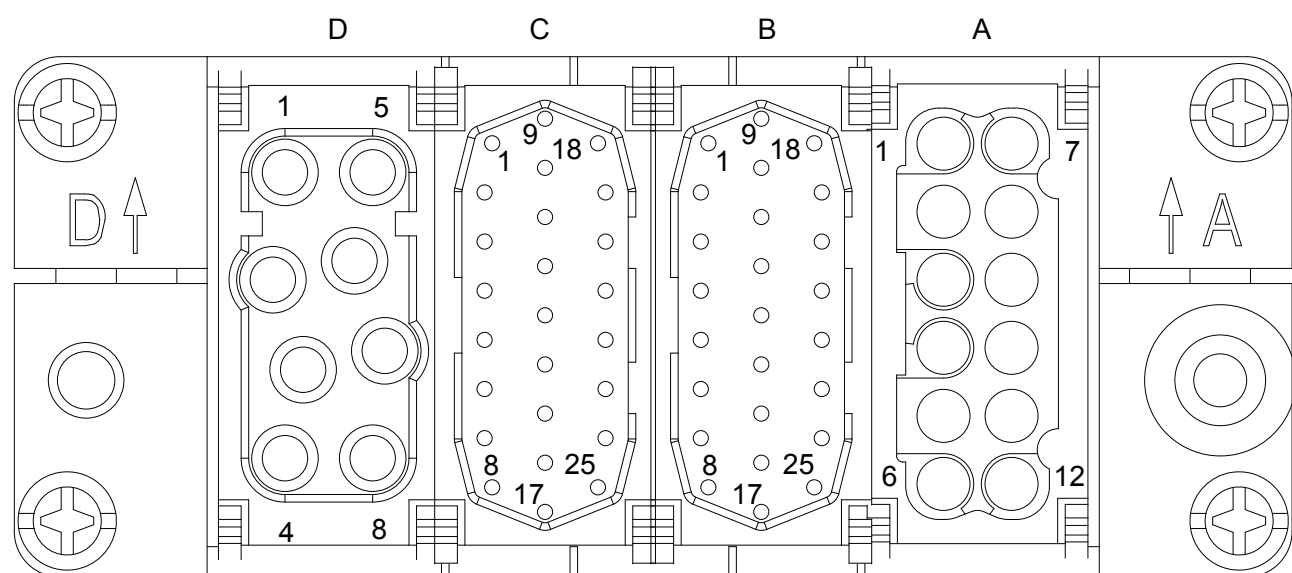
DD

HD

HD

EE

Female (R2.CP/CS)



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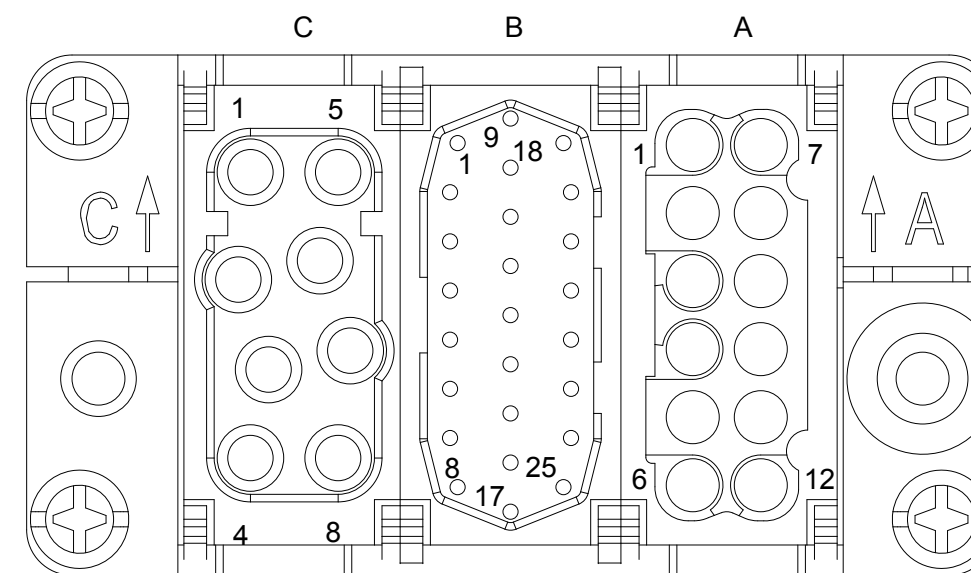
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HD

HD

DD

Female (R3.CP/CS)



EE

HD

DD

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CONNECTOR LAYOUT

DRESS PACK

Status: 2016-11-11

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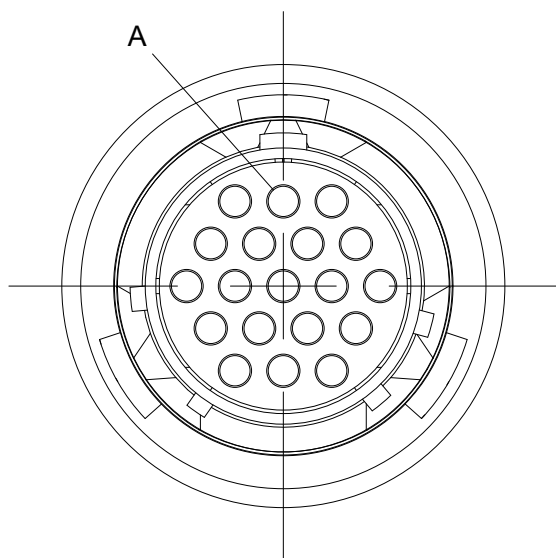
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BLOCK DIAGRAM TYPE H/HS/HSe model (DP-UE-MH3)

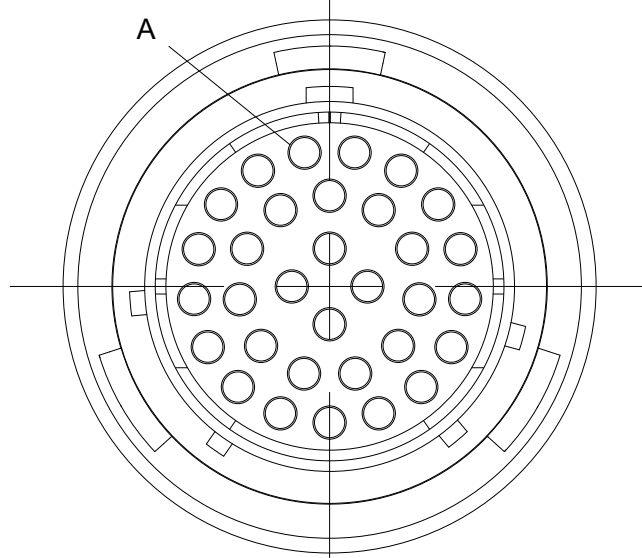
IRB6620LX

Female 19p (R3.CBUS)



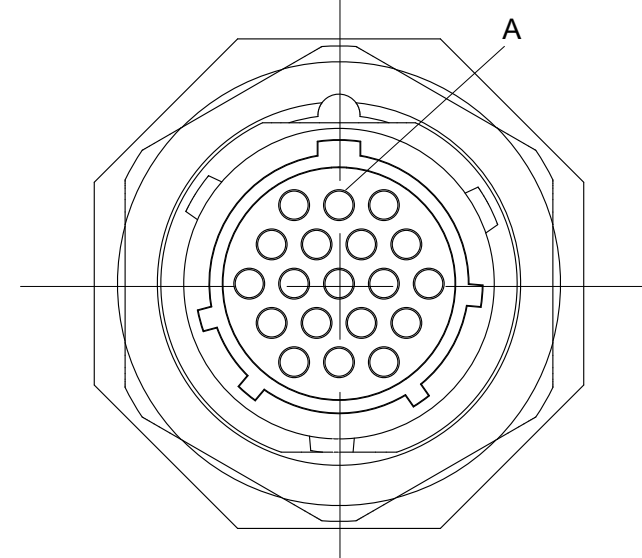
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Female 32p (R3.CP/CS)



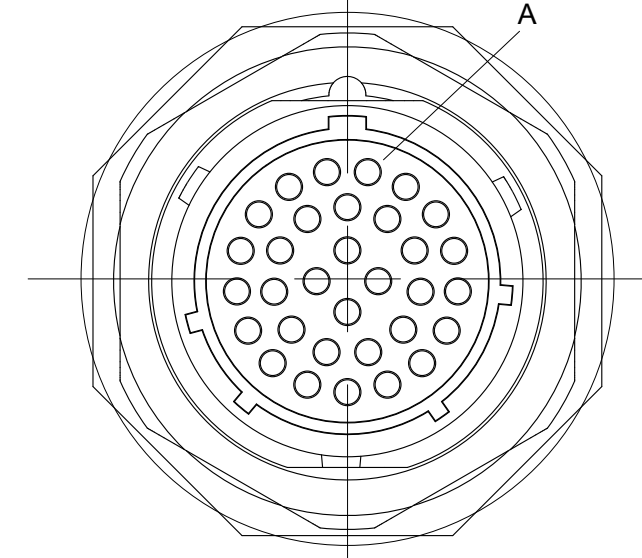
SOURIAU

Male 32p (R1.CBUS)



SOURIAU

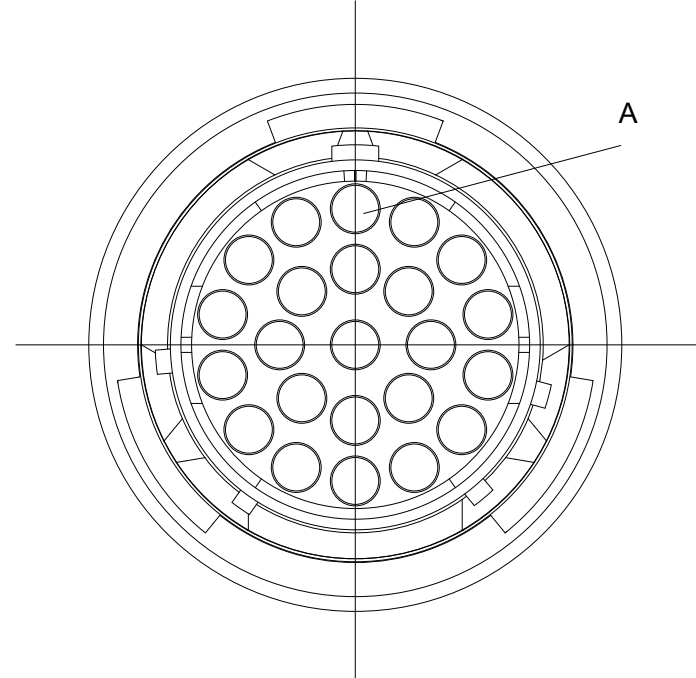
Male 32p (R1.CPS)



SOURIAU

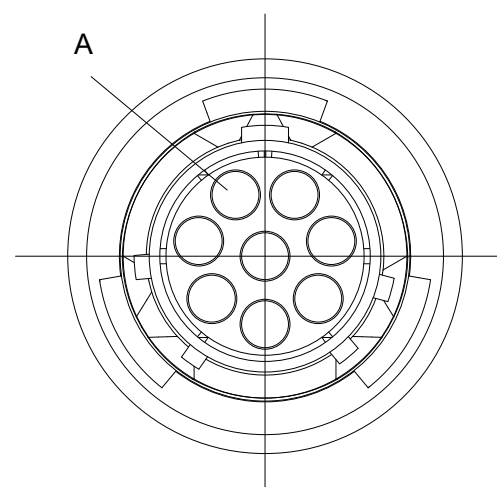
BLOCK DIAGRAM TYPE Se/HSe

Female 23p (R1.SP)

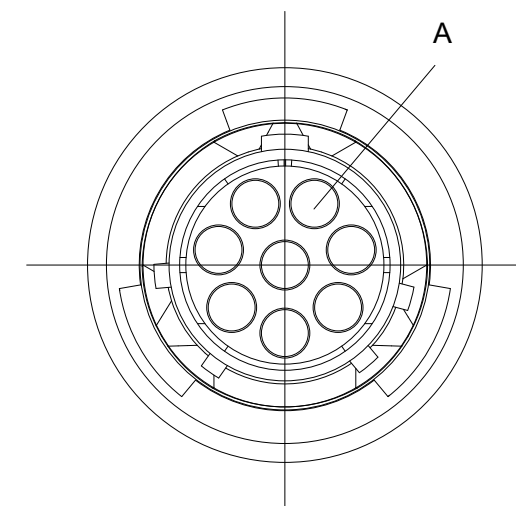


BLOCK DIAGRAM TYPE HSe

Female 8p (FB.M7)



Male 8p (R3.FB7)



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CONNECTOR LAYOUT

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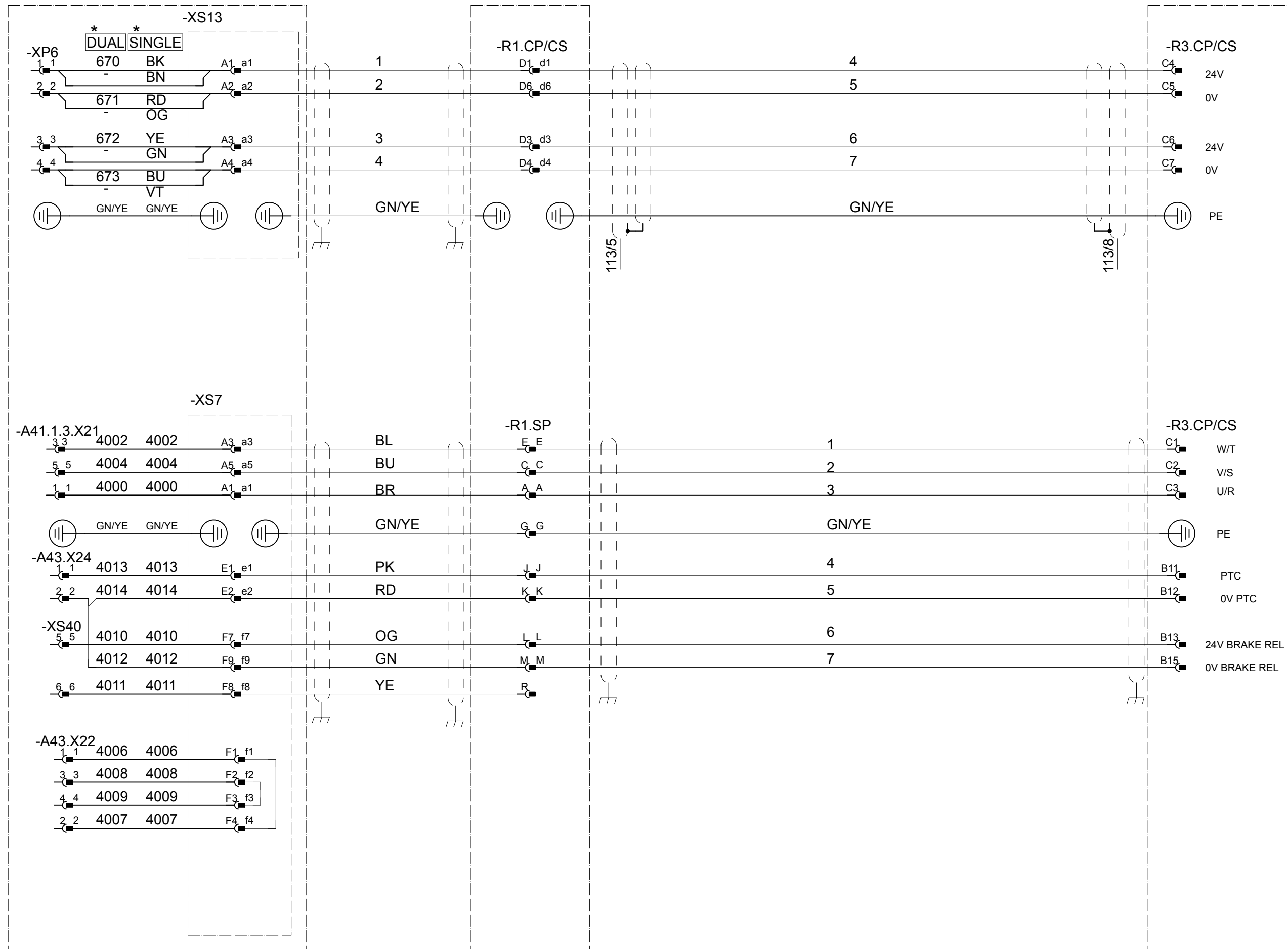
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 3HAC024371-001 (Single)
 3HAC021791-001
 FLOOR HARNESS
 3HAC022957-001,002,003,006
 3HEA800736-001,002,003,004
 LOWER/UPPER ARM HARNESS
 3HAC024649-001

* Circuit diagram shows marking on wires for both dual and single cabinet

-ROBOTCABINET

-MANIPULATOR BASE

-AXIS 6



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CUSTOMER SIGNALS, PARALLEL

TYPE Se

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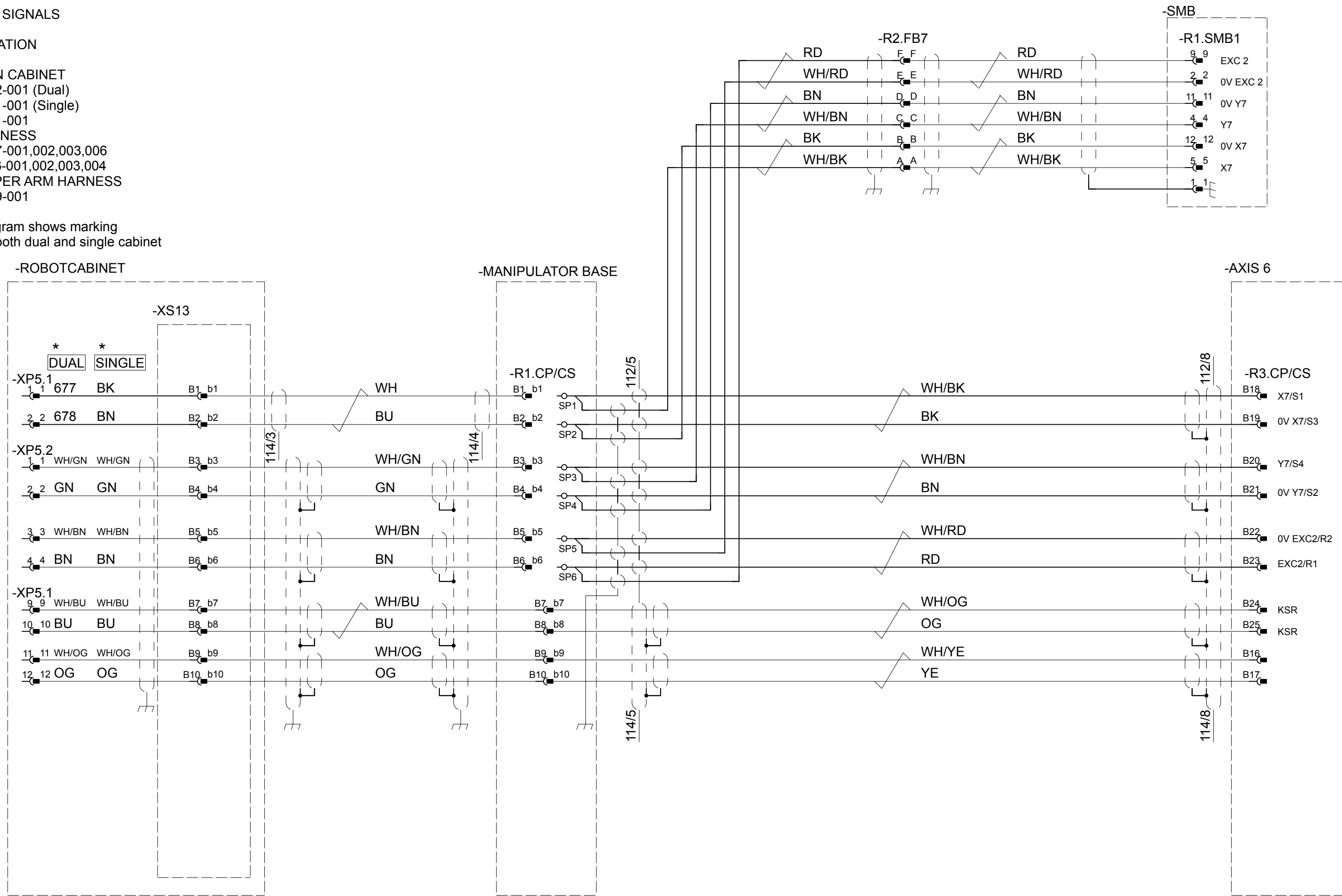
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 FLOOR HARNESS
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 3HEA800736-001,002,003,004
 LOWER/UPPER ARM HARNESS
 3HAC024649-001

* Circuit diagram shows marking
 on wires for both dual and single cabinet



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CUSTOMER SIGNALS, PARALLEL

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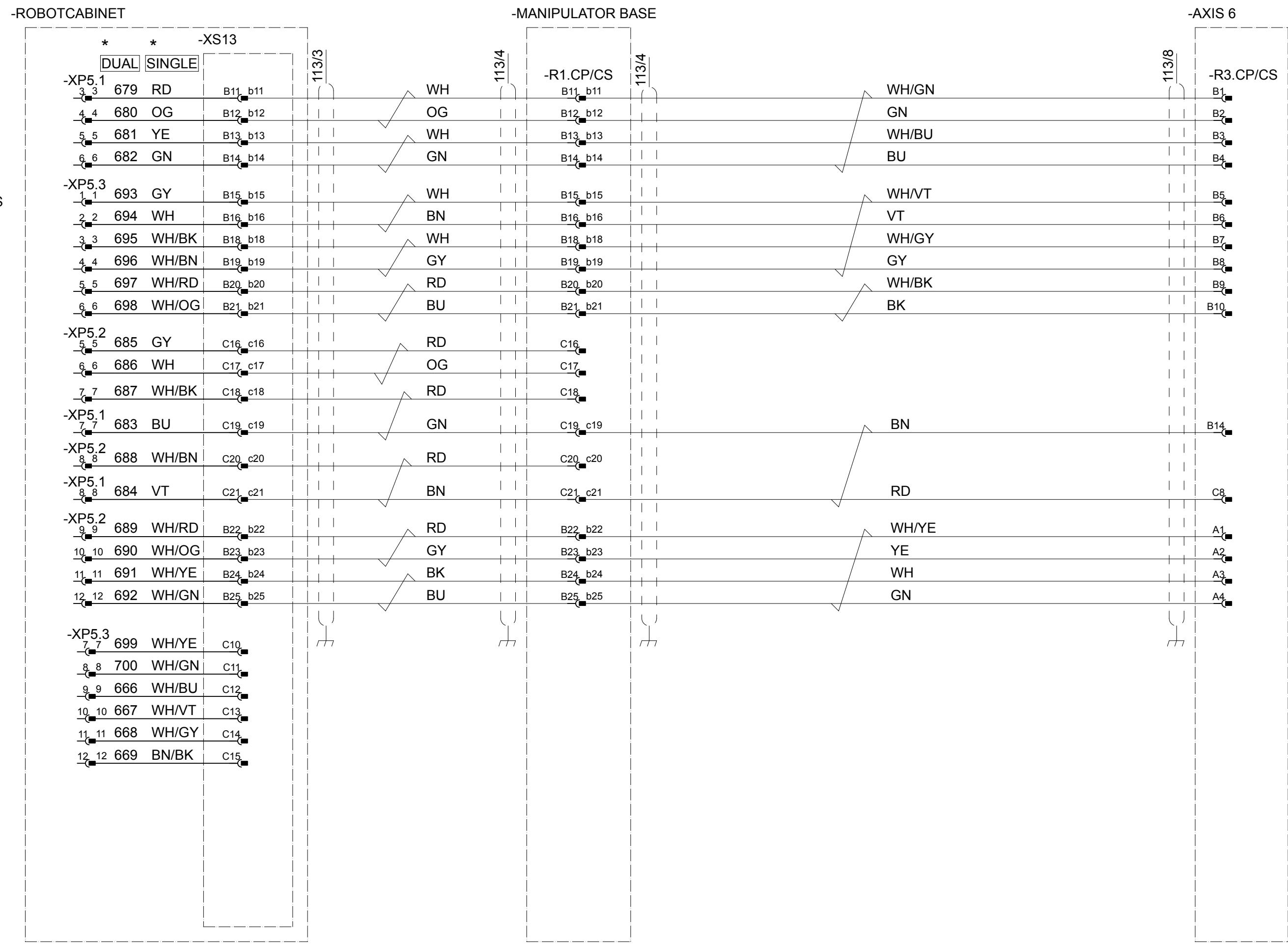
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TYPE SE
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 3HAC022852-001 (Dual)
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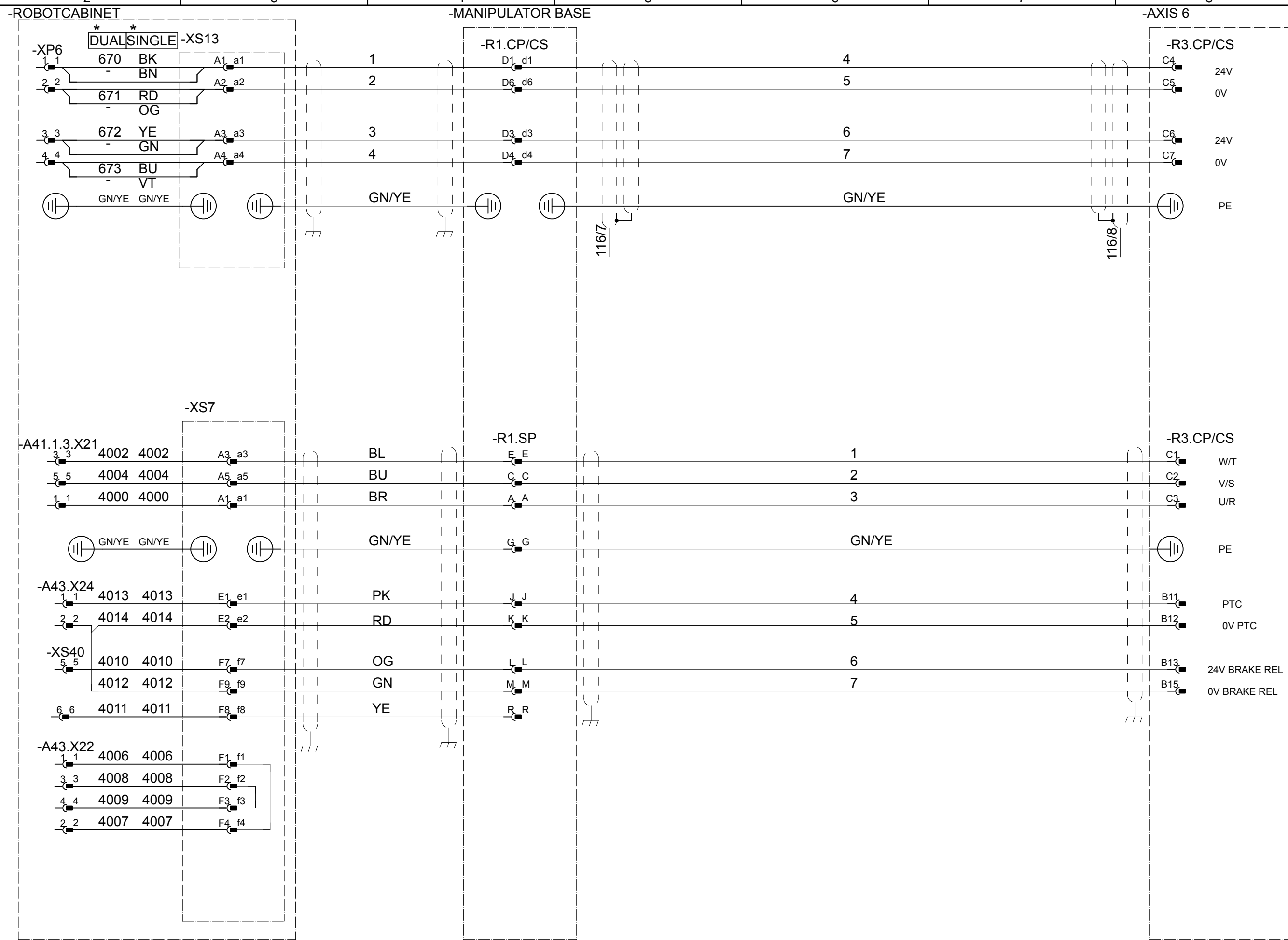
* Circuit diagram shows marking on wires for both dual and single cabinet



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TYPE SE
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 COMMUNICATION
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 3HEA800736-001,002,003,004
 LOWER/UPPER ARM HARNESS
 3HAC024651-001

* Circuit diagram shows marking on wires for both dual and single cabinet



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IRB6620/IRB6620LX & IRC5
 CUSTOMER SIGNALS, CANBUS
 TYPE Se

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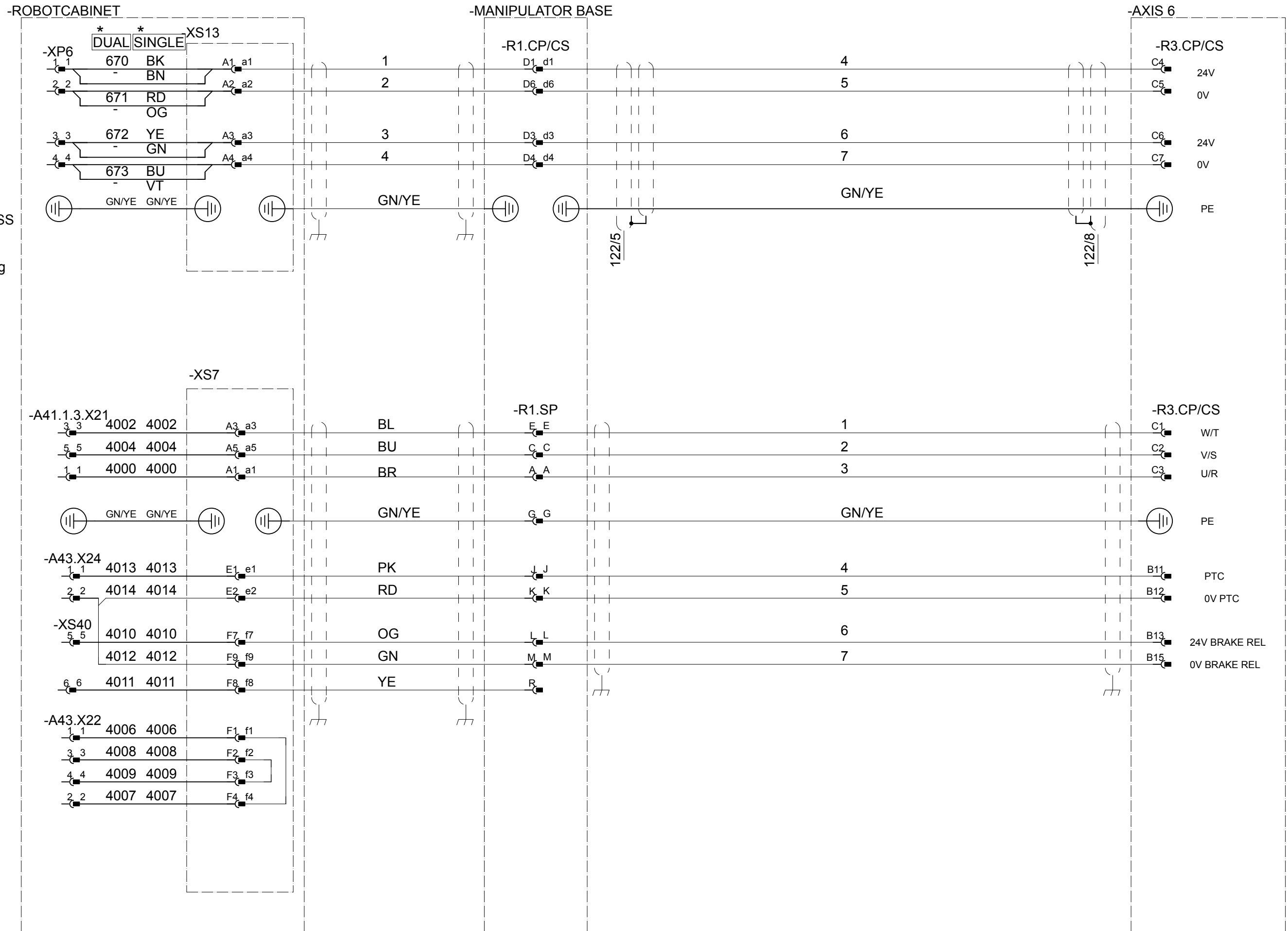
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 3HAC022868-001
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 3HAC024651-001

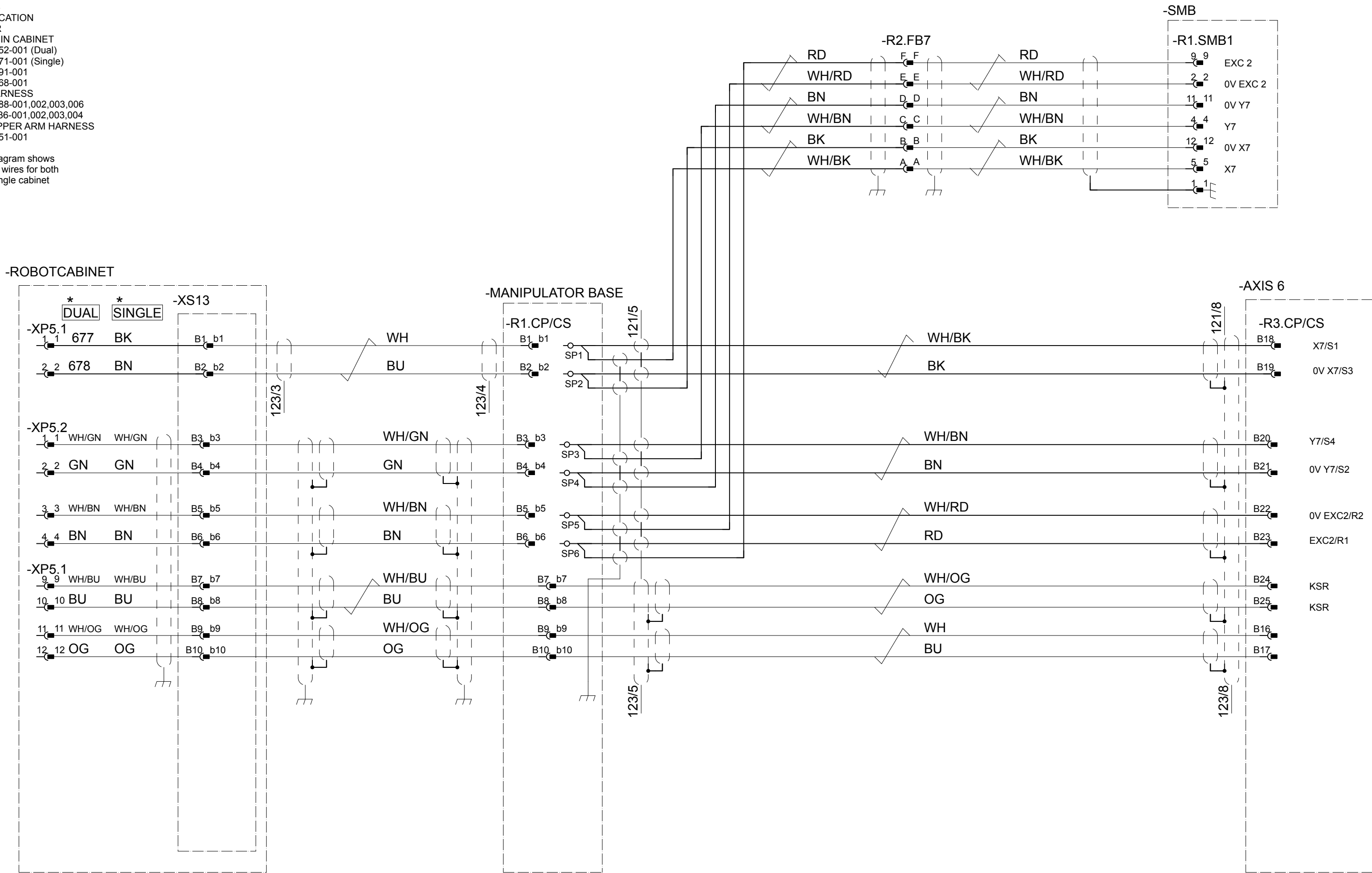
* Circuit diagram shows marking on wires for both dual and single cabinet



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 3HAC024371-001 (Single)
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* Circuit diagram shows marking on wires for both dual and single cabinet



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IRB6620/IRB6620LX & IRC5
 CUSTOMER SIGNALS, PROFIBUS
 TYPE Se

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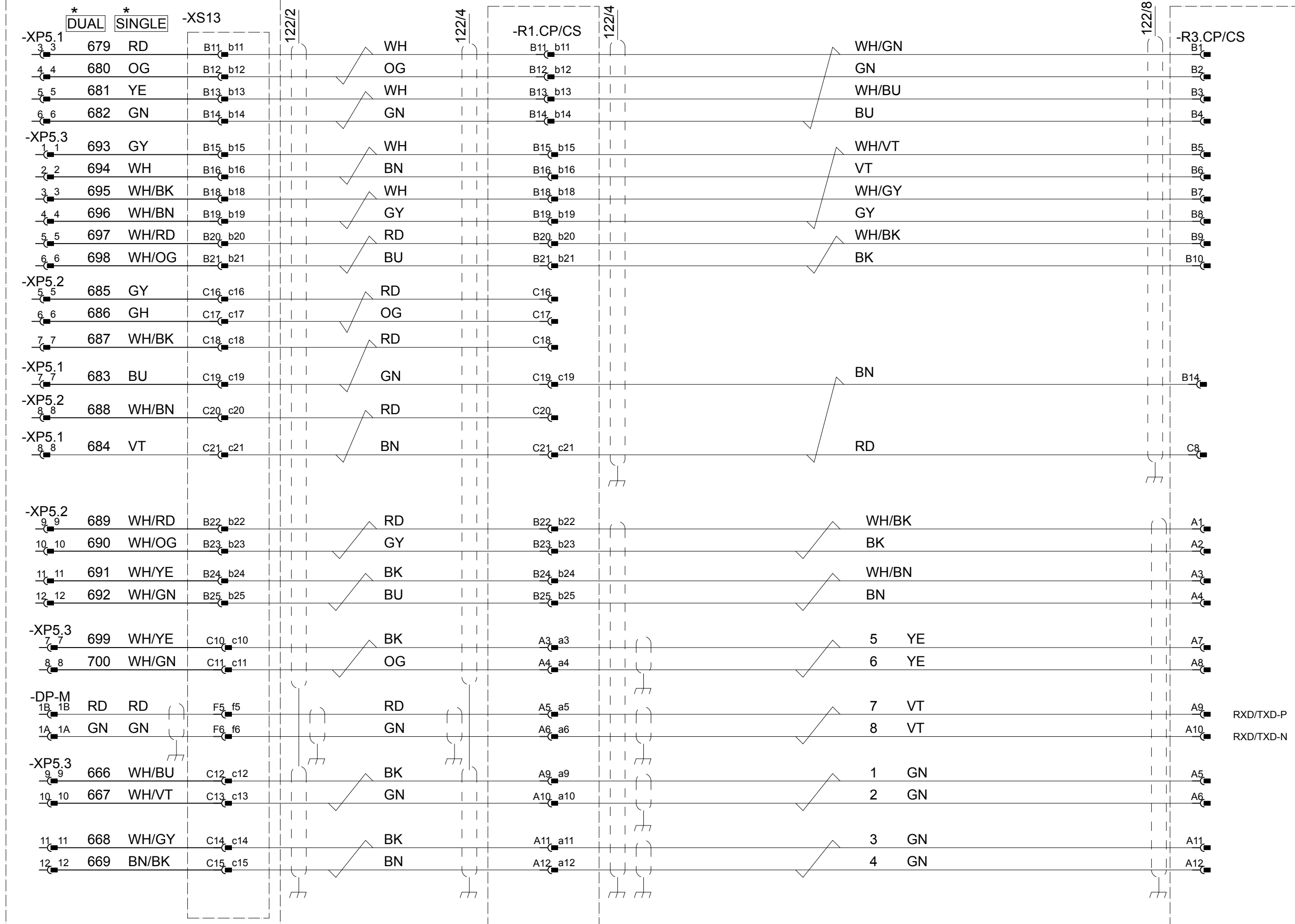
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 3HAC024371-001 (Single)
 3HAC021791-001
 3HAC022868-001
 FLOOR HARNESS
 3HAC022988-001,002,003,006
 3HEA800736-001,002,003,004
 LOWER/UPPER ARM HARNESS
 3HAC024651-001

* Circuit diagram shows marking
 on wires for both dual and
 single cabinet

-ROBOTCABINET

-MANIPULATOR BASE

-AXIS 6



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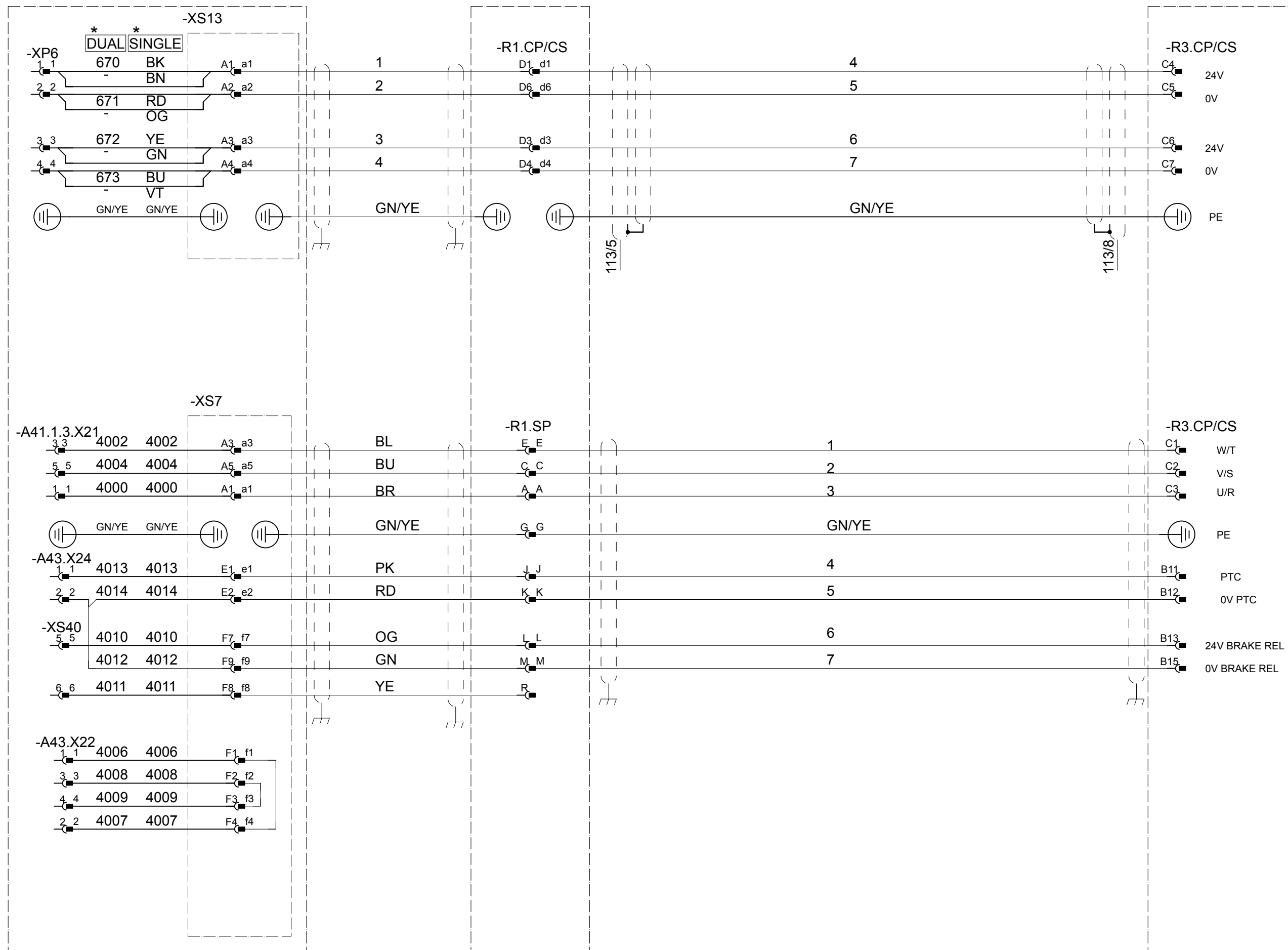
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 3HEA800736-001, 002, 003, 006
 LOWER/UPPER ARM HARNESS
 3HAC038557-001

* Circuit diagram shows marking on the wires for both dual and single cabinet

-ROBOTCABINET

-MANIPULATOR BASE

-AXIS 6



Latest revision: ECO 85155, WI 132120
 Pg 53: Variant LX added.
 Pg 56: Variant LX added.
 Pg 250-251: Pages added.

Prepared by, date: Erik Mesaros | Approved by, date: JanErik Nähls



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IRB6620/IRB6620LX & IRC5

CUSTOMER SIGNALS, ETHERNET

TYPE Se

Status: 2016-11-11

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3HAC026136-001

Plant: = DP
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 Sublocation: + (-)

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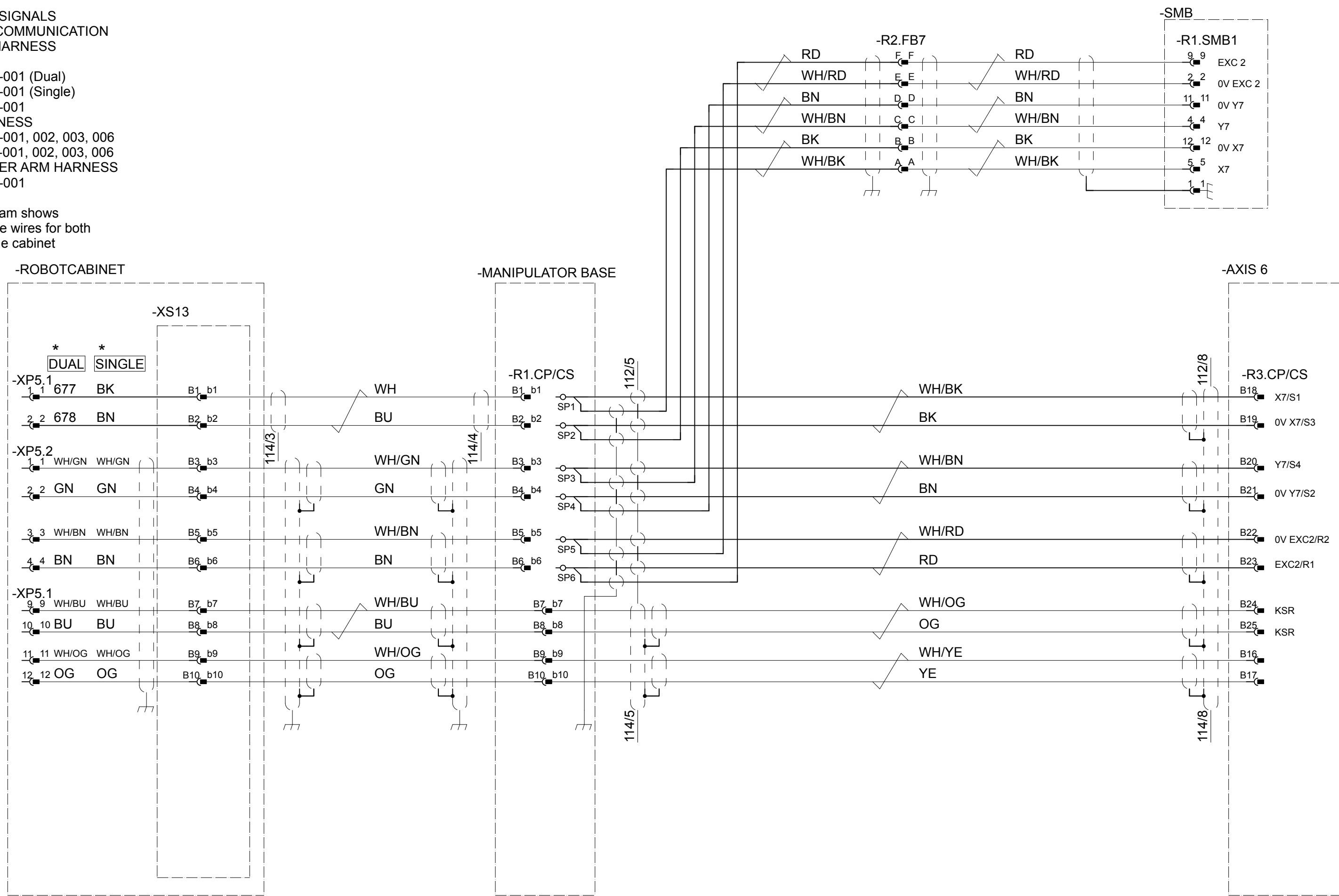
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 LOWER/UPPER ARM HARNESS
 3HAC038557-001

* Circuit diagram shows marking on the wires for both dual and single cabinet



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 CUSTOMER SIGNALS, ETHERNET

Status: 2016-11-11
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Prepared by, date: Erik Mesaros Approved by, date: JanErik Nähls

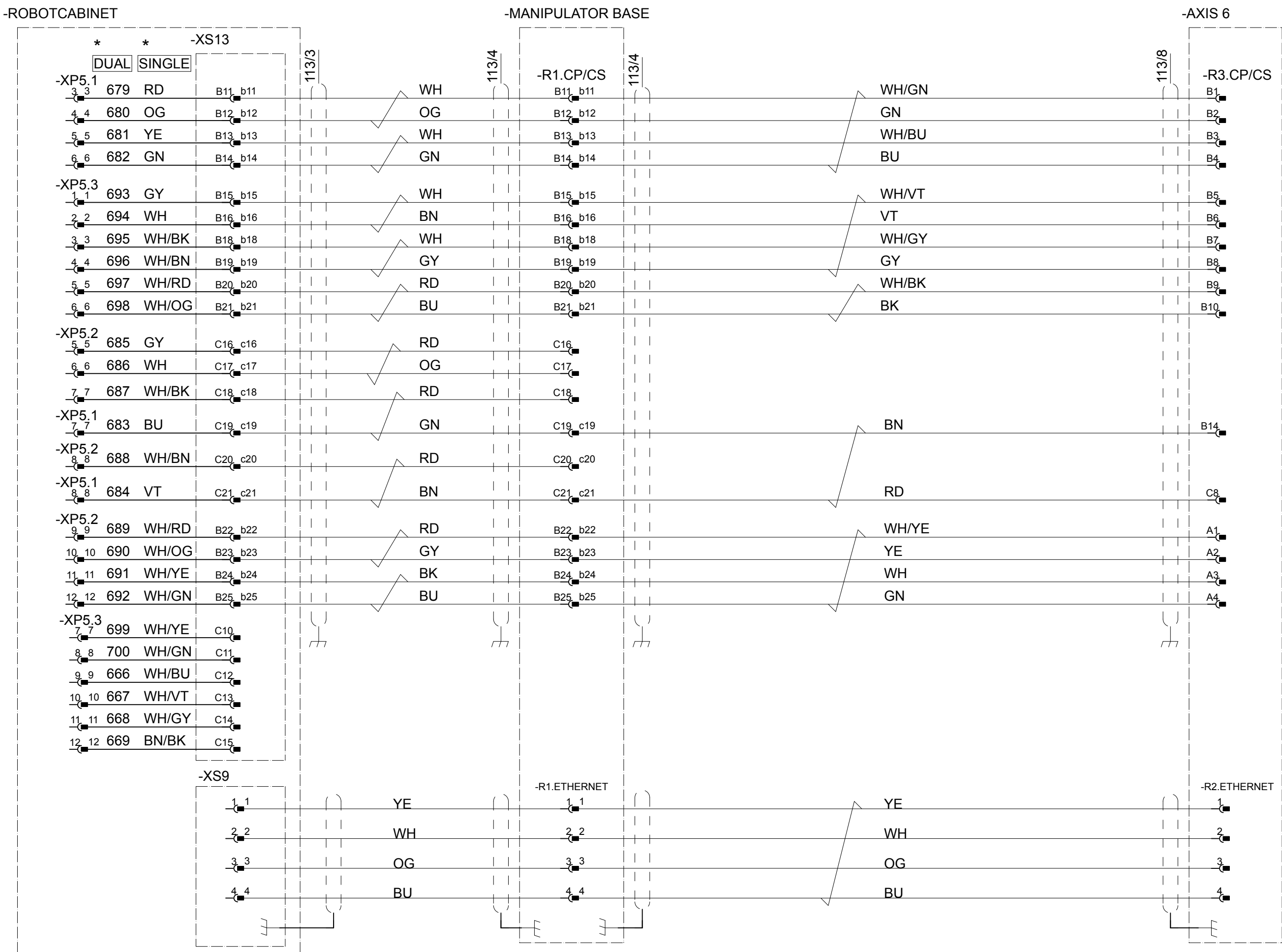
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TYPE Se
 CUSTOMER SIGNALS
 ETHERNET COMMUNICATION
 VALID FOR HARNESS
 IN CABINET
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 3HAC024371-001 (Single)
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 3HAC022957-001, 002, 003, 006
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 LOWER/UPPER ARM HARNESS
 3HAC038557-001

* Circuit diagram shows marking on the wires for both dual and single cabinet



Latest revision: ECO 85155, WI 132120
 Pg 53: Variant LX added.
 Pg 56: Variant LX added.
 Pg 250-251: Pages added.

Prepared by, date: Erik Mesaros Approved by, date: JanErik Nähls



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IRB6620/IRB6620LX & IRC5
 CUSTOMER SIGNALS, ETHERNET
 TYPE Se

Status: 2016-11-11

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Document no.

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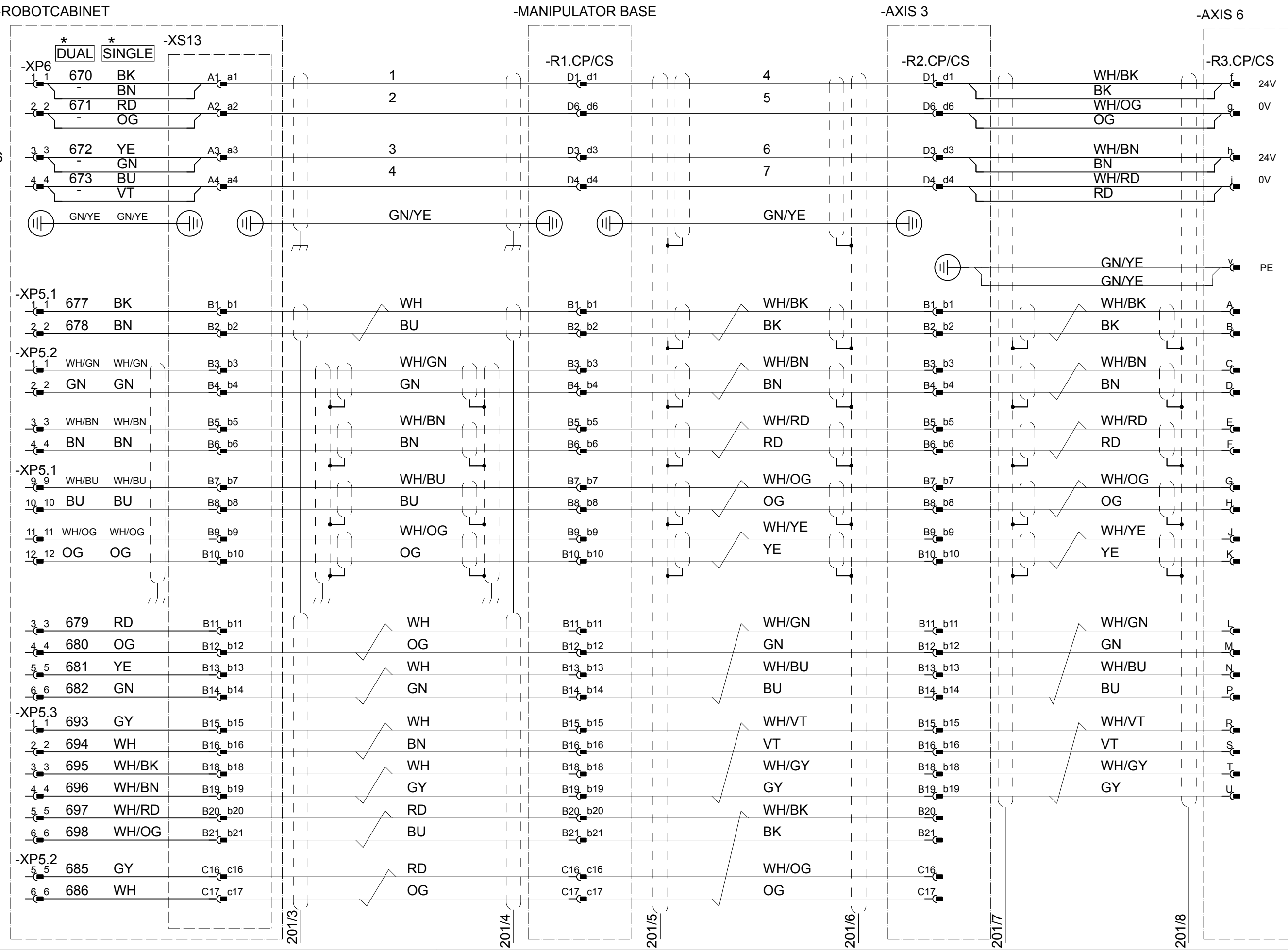
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 3HAC022957-001,002,003,006

IRBDP MH3
 LOWER ARM HARNESS
 3HAC029704-001
 UPPER ARM HARNESS
 3HAC026813-001

* Circuit diagram shows marking on wires for both dual and single cabinet



Latest revision: ECO 85155, WI 132120
 Pg 53: Variant LX added.
 Pg 56: Variant LX added.
 Pg 250-251: Pages added.

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IRB6620/IRB6620LX & IRC5
 CUSTOMER SIGNALS, PARALLEL
 TYPE H, HS AND HSe

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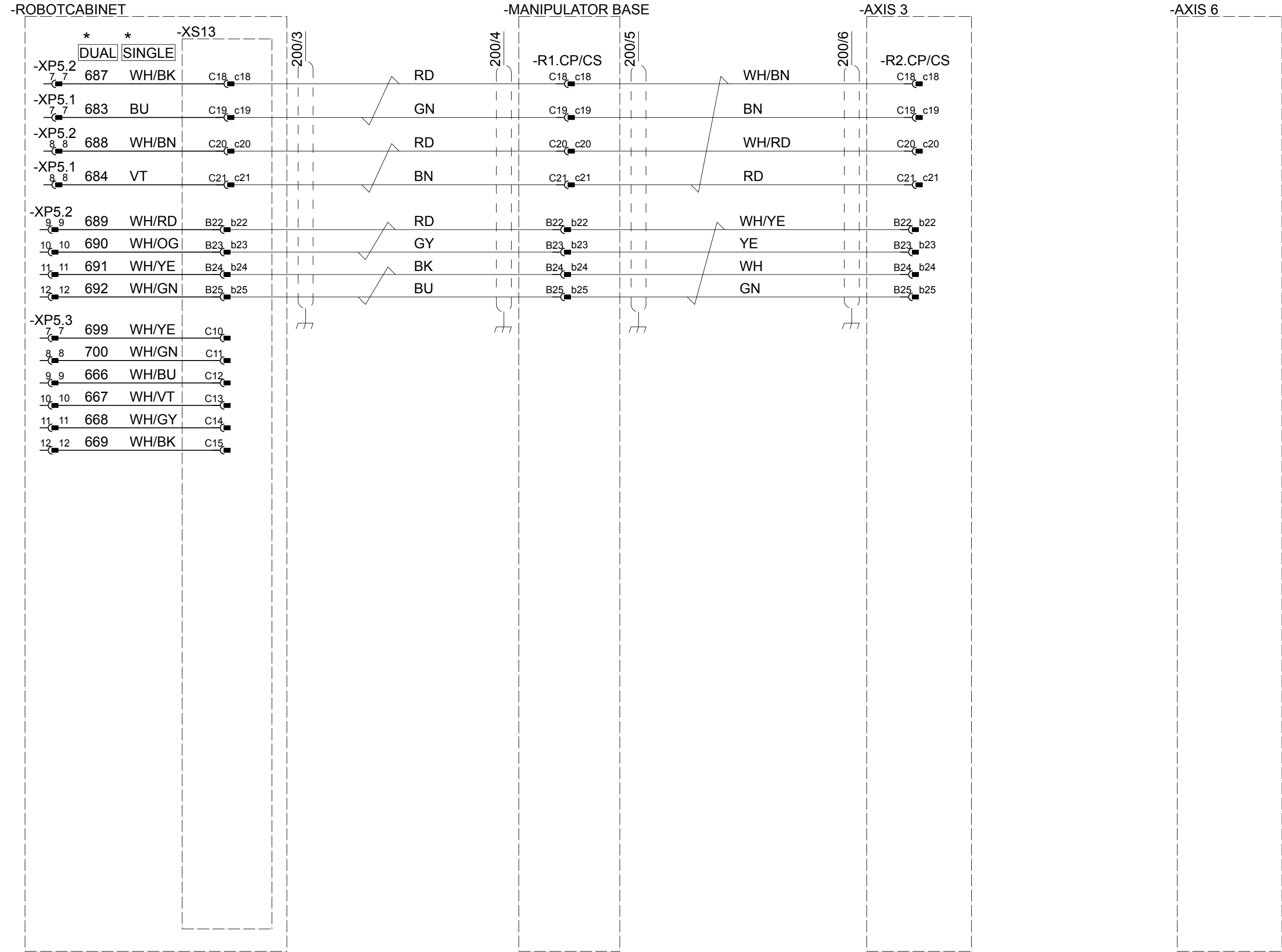
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TYPE H, HS AND HSE
 CUSTOMER SIGNALS
 PARALLEL
 COMMUNICATION
 VALID FOR
 HARNESS IN CABINET
 3HAC022852-001 (Dual)
 3HAC024371-001 (Single)
 FLOOR HARNESS
 3HAC022957-001,002,003,006

IRBDP MH3
 LOWER ARM HARNESS
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* Circuit diagram shows
 marking on wires for both
 dual and single cabinet



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 CUSTOMER SIGNALS, PARALLEL
 TYPE H, HS AND HSe

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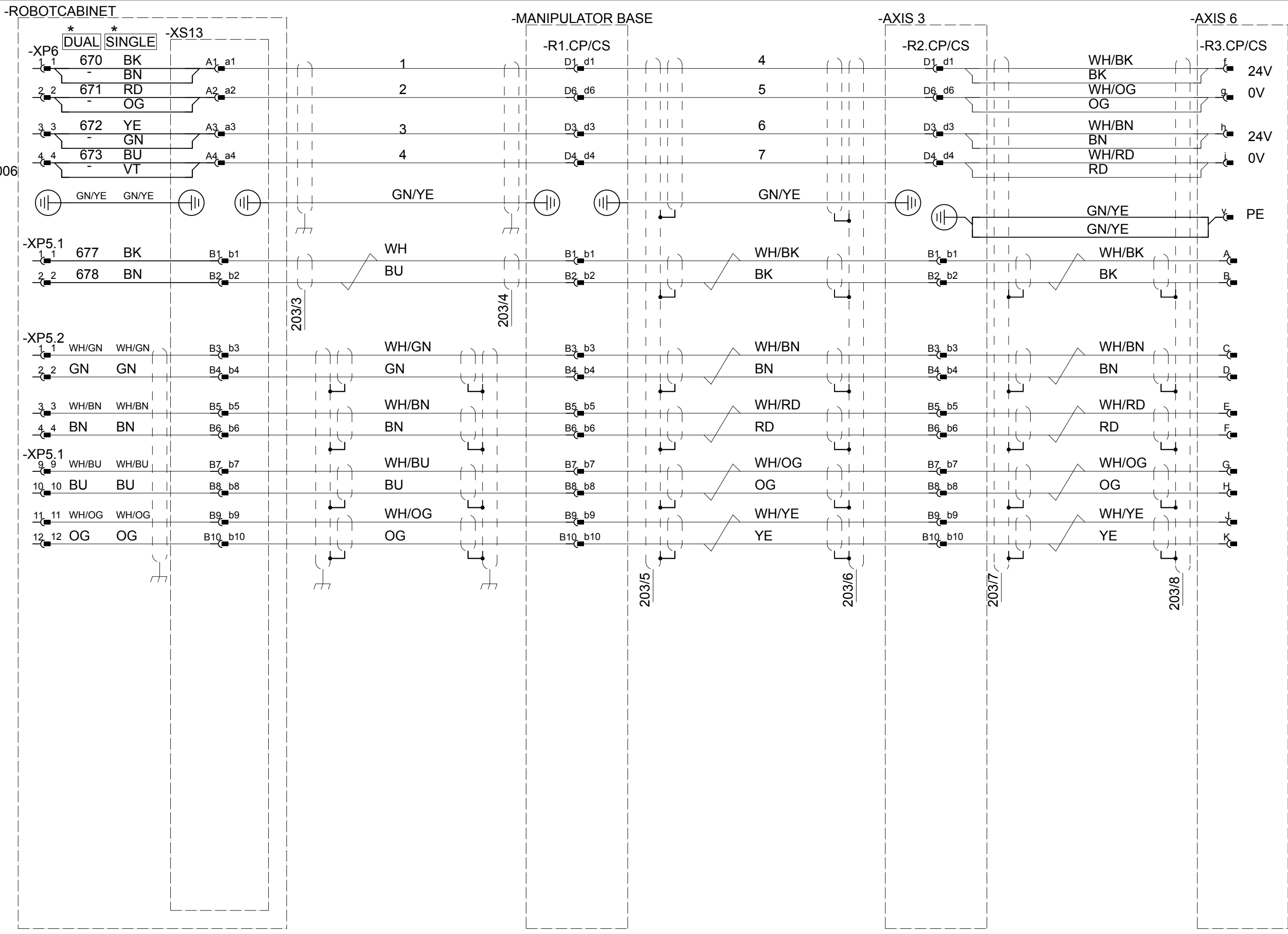
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 3HAC024371-001 (Single)
 3HAC022866-001
 FLOOR HARNESS
 3HAC022978-001,002,003,006

IRBDP MH3
 LOWER ARM HARNESS
 3HAC029705-001
 UPPER ARM HARNESS
 3HAC026813-002

* Circuit diagram shows
 marking on wires for both
 dual and single cabine



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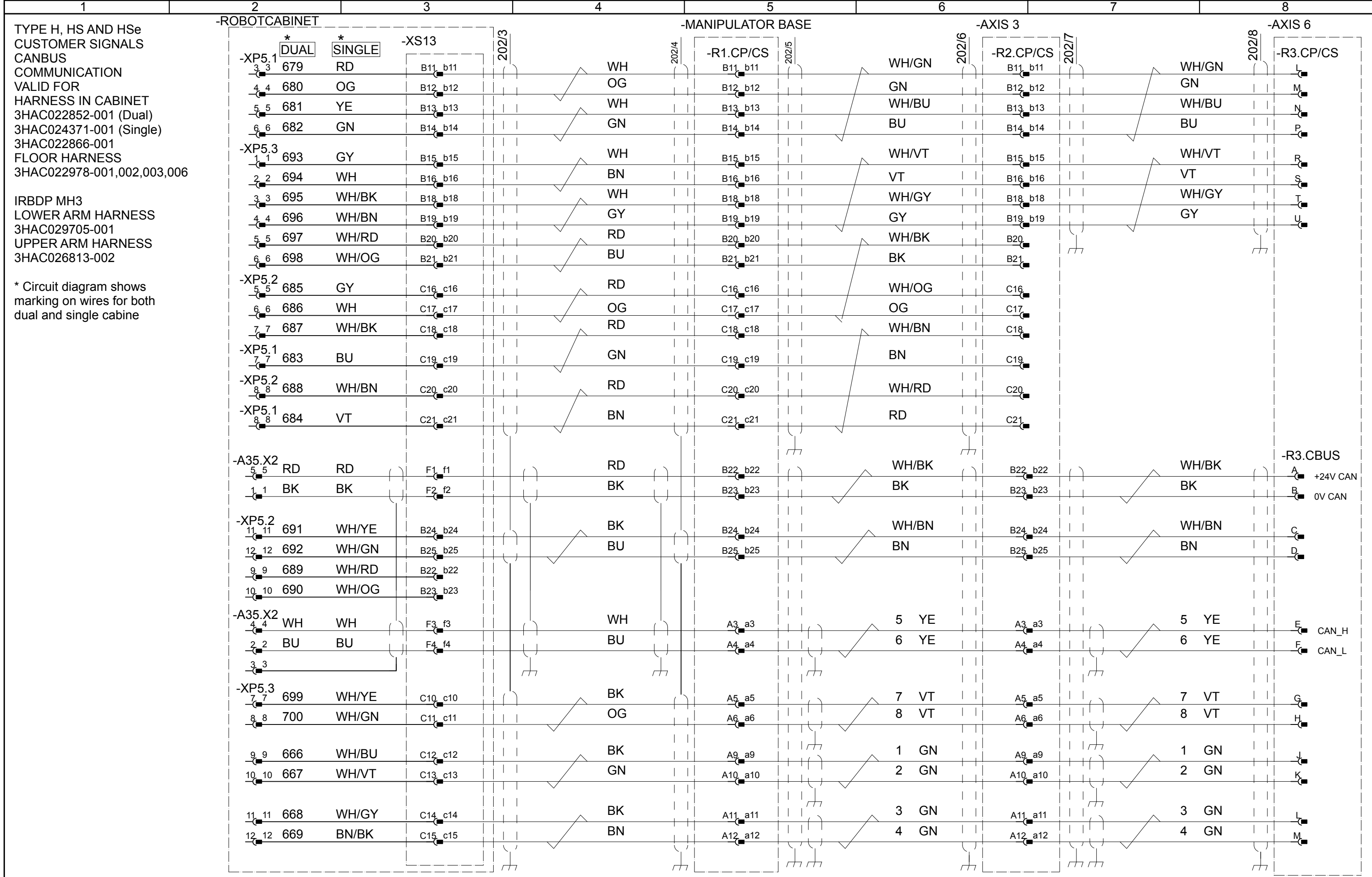
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 TYPE H, HS AND HSe

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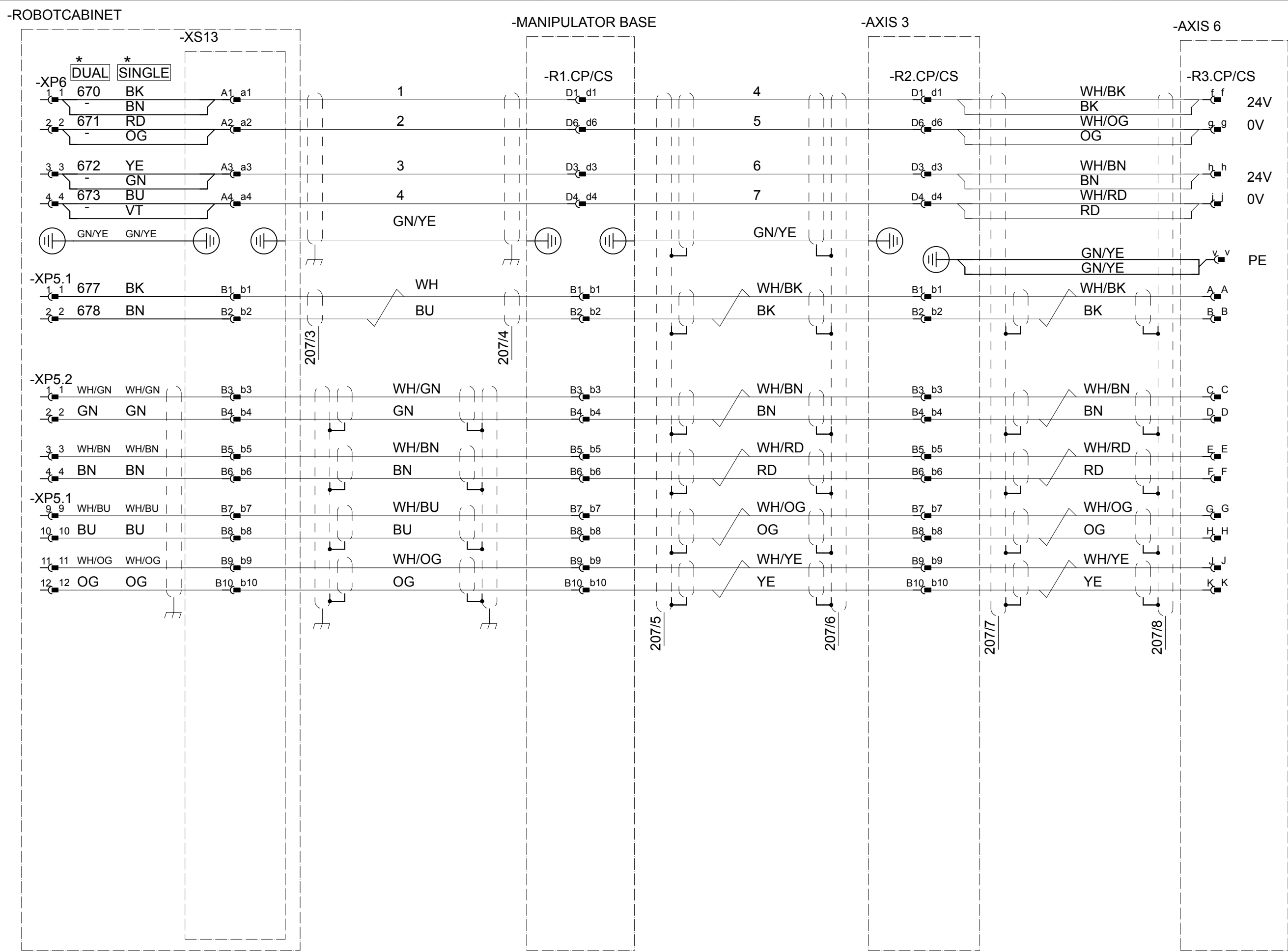
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TYPE H, HS AND HSe
 CUSTOMER SIGNALS
 PROFIBUS
 COMMUNICATION
 VALID FOR
 HARNESS IN CABINET
 3HAC022852-001 (Dual)
 3HAC024371-001 (Single)
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 FLOOR HARNESS
 3HAC022988-001,002,003,006
 IRBDP MH3
 LOWER ARM HARNESS
 3HAC029705-001
 UPPER ARM HARNESS
 3HAC026813-002

* Circuit diagram shows marking on wires for both dual and single cabine



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TYPE H, HS AND HSe
CUSTOMER SIGNALS
PROFIBUS
COMMUNICATION
VALID FOR
HARNESS IN CABINET
3HAC022852-001 (Dual)
3HAC024371-001 (Single)
3HAC022868-001
FLOOR HARNESS
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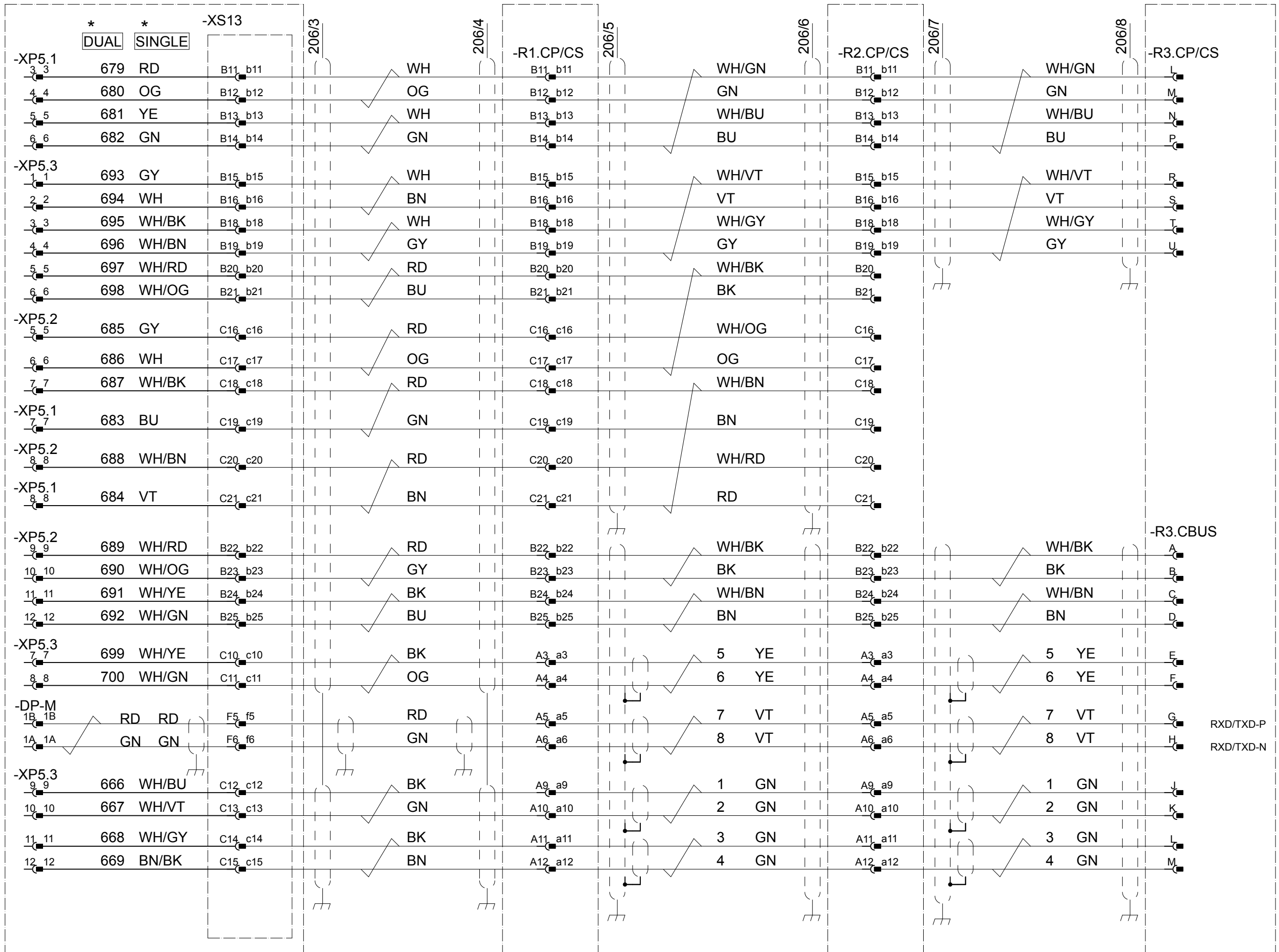
* Circuit diagram shows marking on wires for both dual and single cabine

-ROBOTCABINET

-MANIPULATOR BASE

-AXIS 3

-AXIS 6



Latest revision: ECO 85155, WI 132120
Pg 53: Variant LX added.
Pg 56: Variant LX added.
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CUSTOMER SIGNALS, PROFIBUS
TYPE H, HS AND HSe

Status: 2016-11-11

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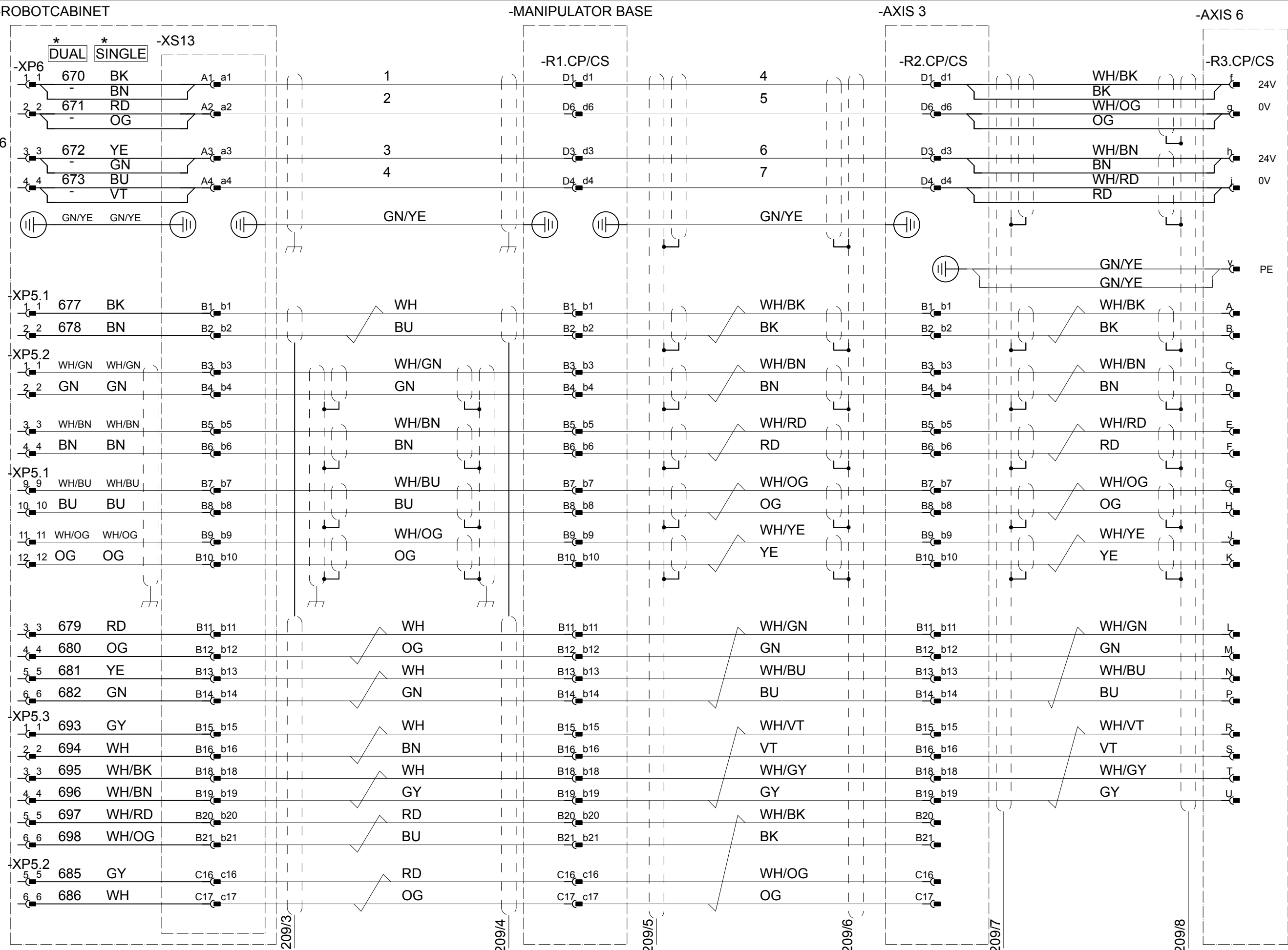
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 3HAC024371-001 (Single)
 FLOOR HARNESS
 3HAC022957-001, 002, 003, 006
 IRBDP MH3
 LOWER ARM HARNESS
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 UPPER ARM HARNESS
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* Circuit diagram shows marking on the wires for both dual and single cabinet



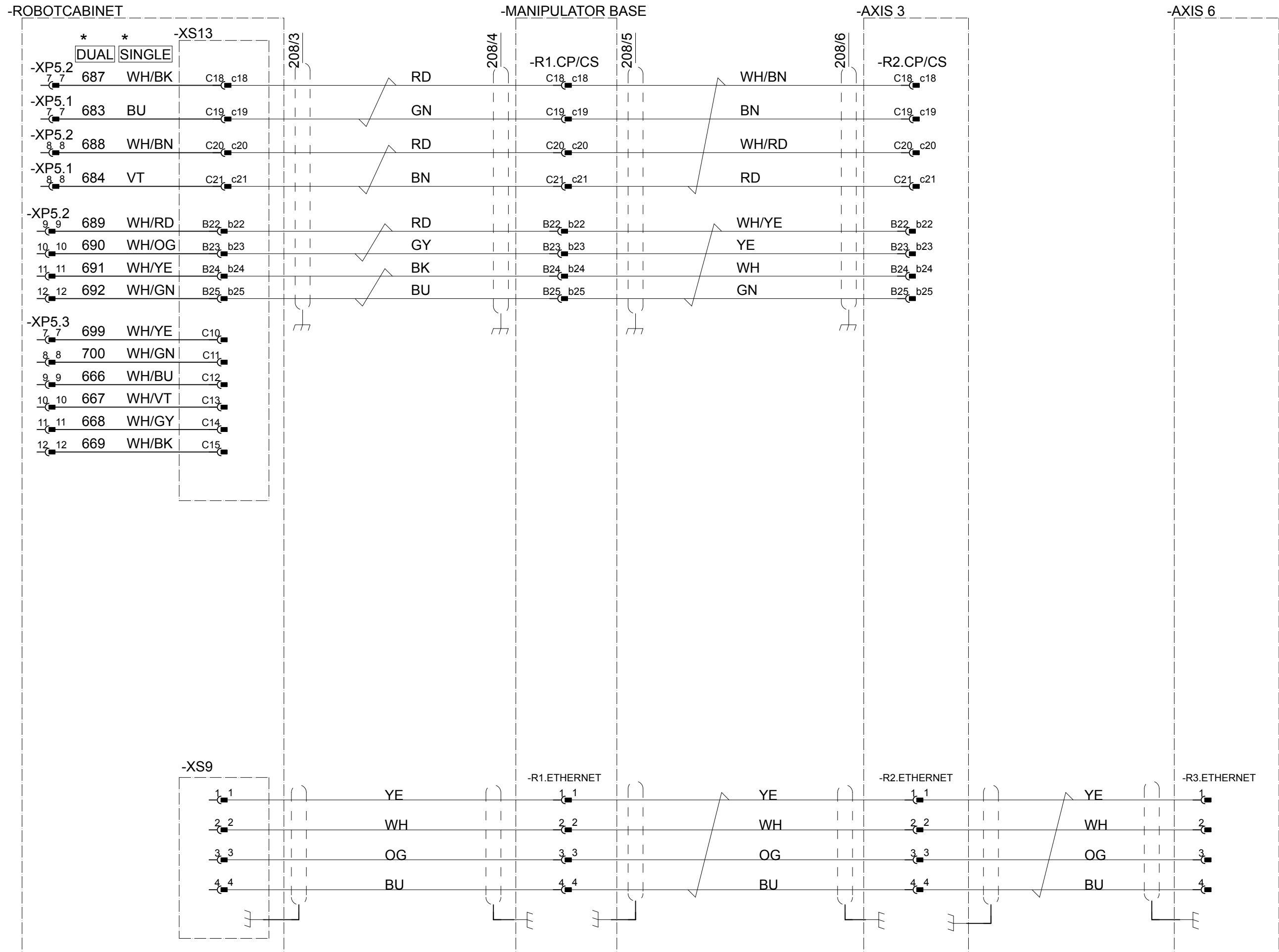
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TYPE H, HS AND HSe
CUSTOMER SIGNALS
ETHERNET COMMUNICATION
VALID FOR HARNESS
IN CABINET
3HAC022852-001 (Dual)
3HAC024371-001 (Single)
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3HAC022957-001, 002, 003, 006

IRBDP MH3
LOWER ARM HARNESS
3HAC034140-001
UPPER ARM HARNESS
3HAC026813-001
3HAC034204-002

* Circuit diagram shows
marking on the wires for both
dual and single cabinet



Latest revision: ECO 85155, WI 132120
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Pg 56: Variant LX added.
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CUSTOMER SIGNALS, ETHERNET

TYPE H, HS AND HSe

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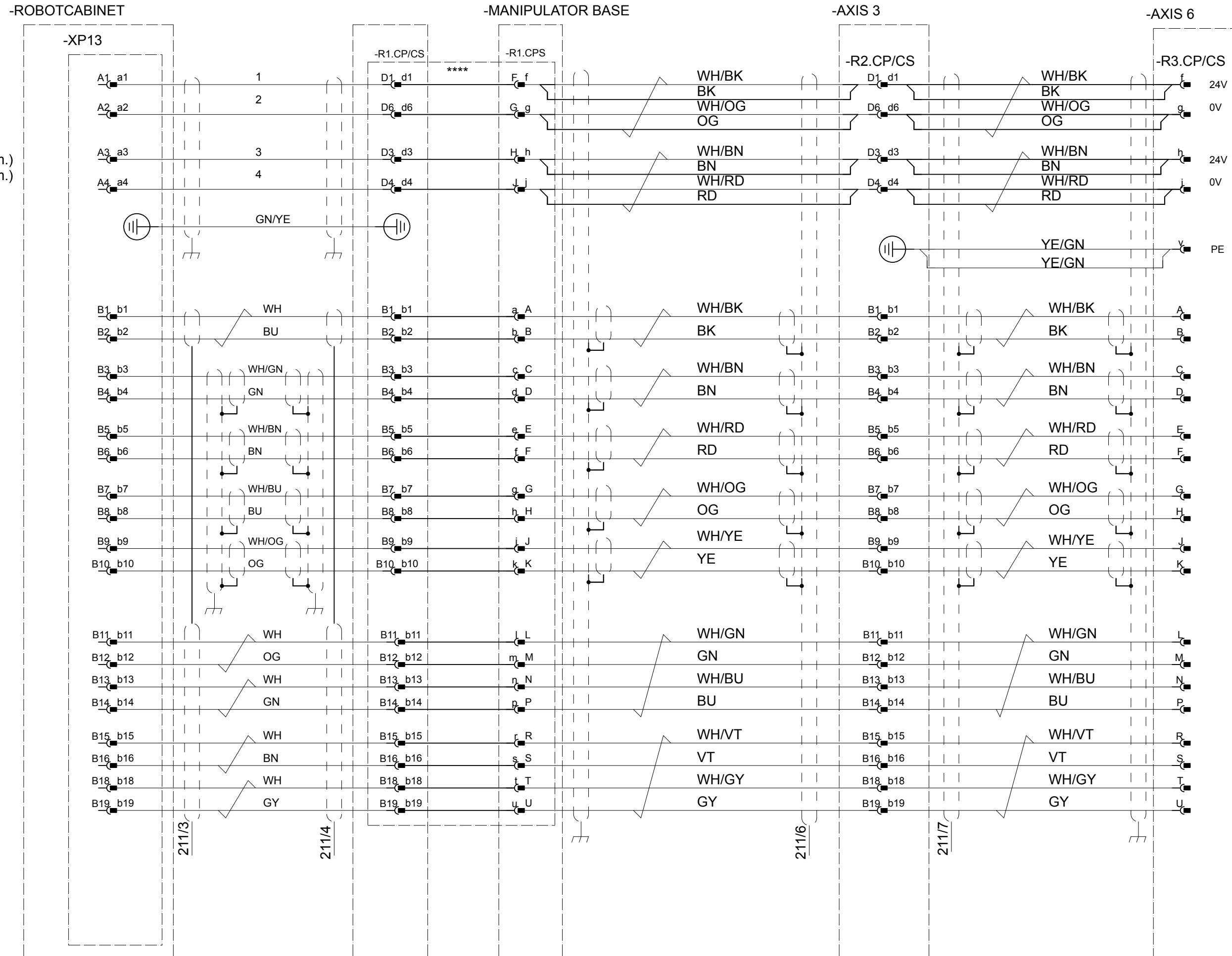
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 3HAC0313924-001 (Ethernet)

IRB6620LX, MH3
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 UPPER ARM HARNESS
 3HAC026813-001 (Parallel)
 3HAC026813-002 (Bus com.)
 3HAC034204-002 (Ethernet)

* Circuit diagram shows marking on the wires for both dual and single cabinet

**** Part of Gúdels Linear axis unit



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|---|----------------------------------|--------------------------------|---|---|--|----------|----------------------|
| Latest revision: ECO 85155, WI 132120 Pg 53: Variant LX added. Pg 56: Variant LX added. Pg 250-251: Pages added. | | Lab/Office: DMRO SE PRIM | IRB6620/IRB6620LX & IRC5 LX, CUSTOMER SIGNALS, ALL TYPE H | Status: 2016-11-11 APPROVED Document no. 3HAC026136-001 | Plant: = DP Location: + H Sublocation: + 1 | Rev. Ind | Page 250 |
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TYPE H
 CUSTOMER SIGNALS
 ETHERNET COMMUNICATION
 VALID FOR HARNESS
 IN CABINET
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 FLOOR HARNESS
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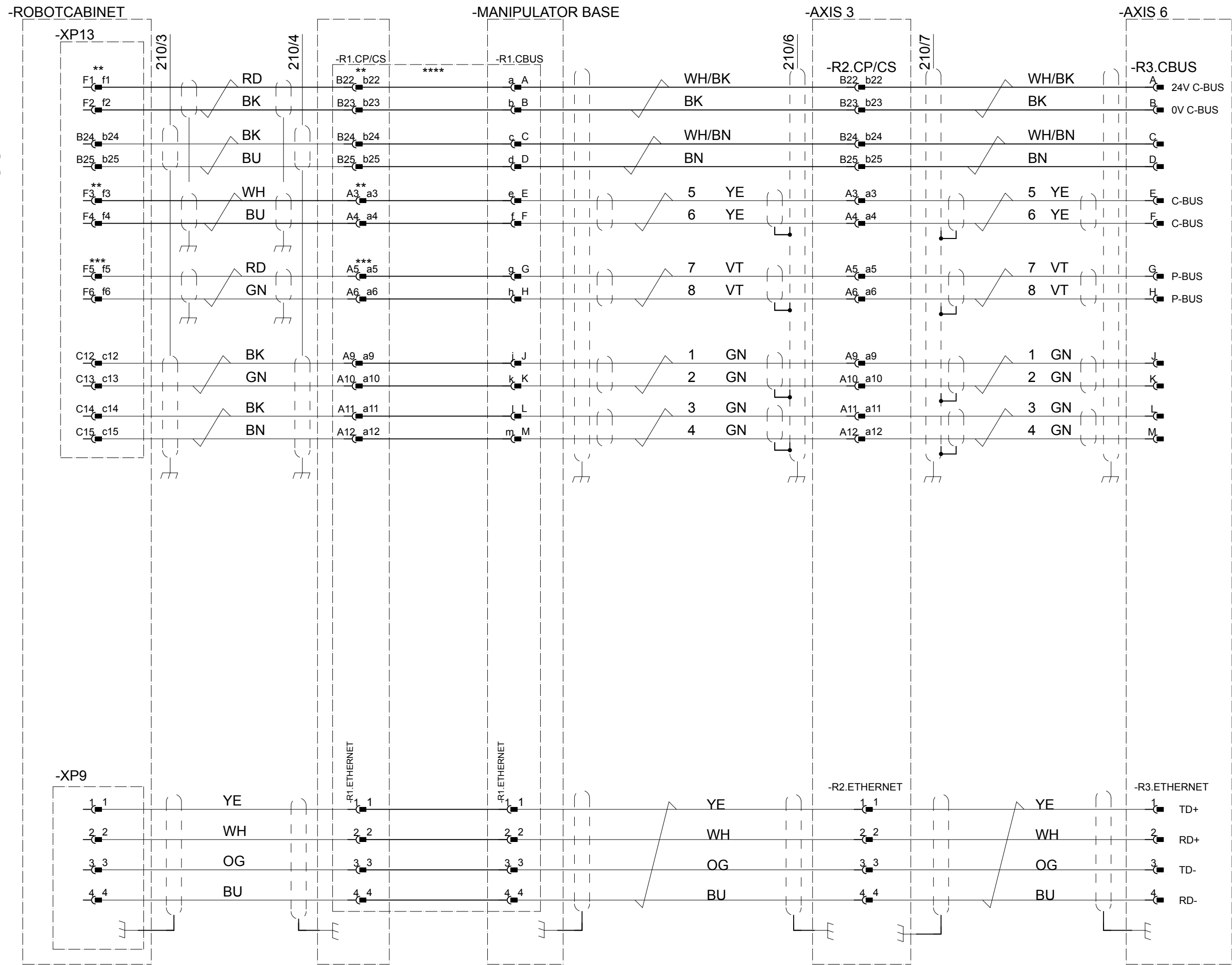
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 3HAC034204-002 (Ethernet)

* Circuit diagram shows marking on the wires for both dual and single cabinet

** Part of 3hac022978-00x

*** Part of 3hac022988-00x

**** Part of Gúdels Linear axis unit



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Plant: = DP
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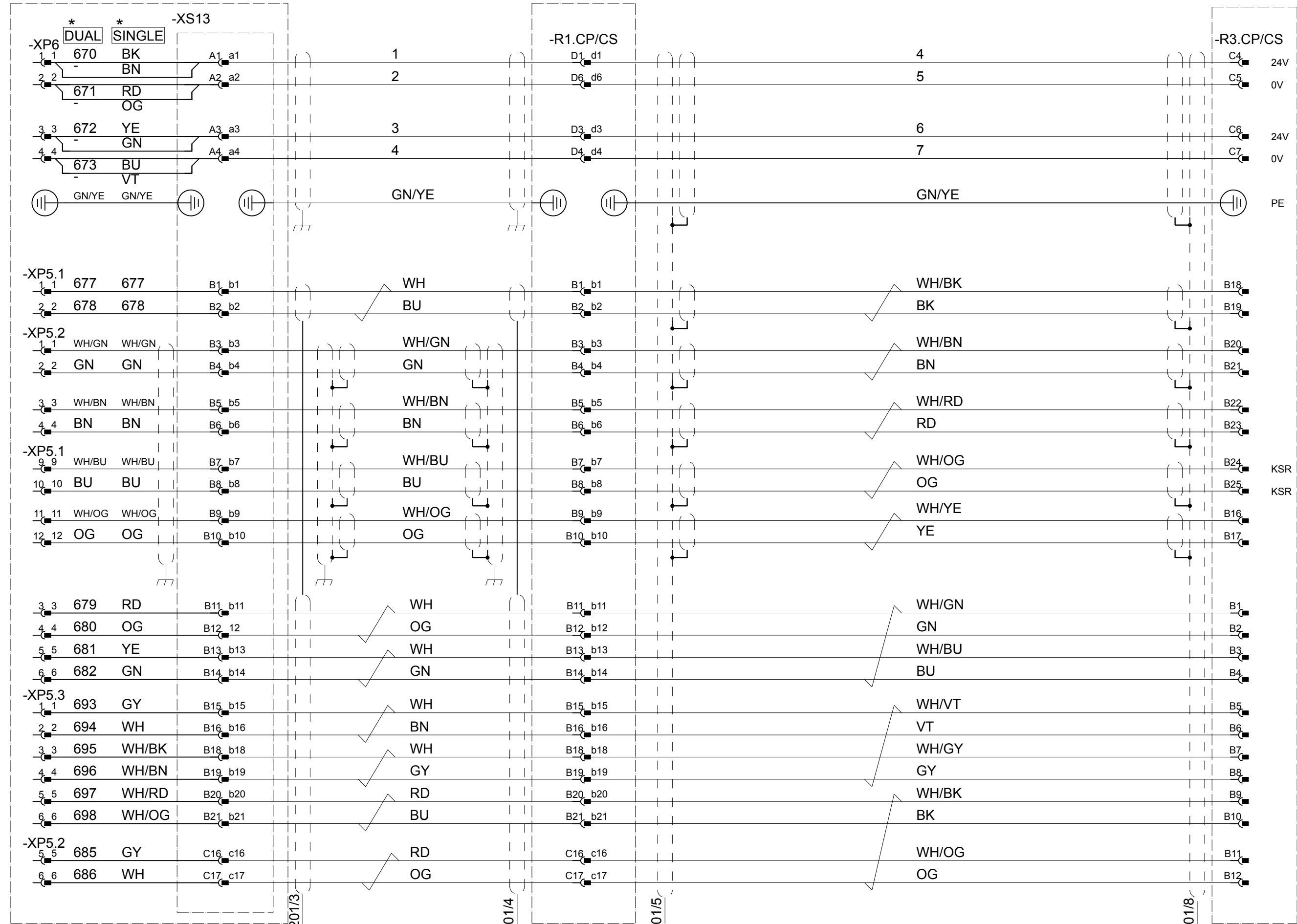
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 FLOOR HARNESS
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* Circuit diagram shows marking on wires for both dual and single cabinet

-ROBOTCABINET

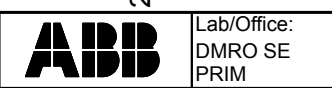
-MANIPULATOR BASE

-AXIS 6



Latest revision: ECO 85155, WI 132120
 Pg 53: Variant LX added.
 Pg 56: Variant LX added.
 Pg 250-251: Pages added.

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 CUSTOMER SIGNALS, PARALLEL
 TYPE H and HSe

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Plant: = DP
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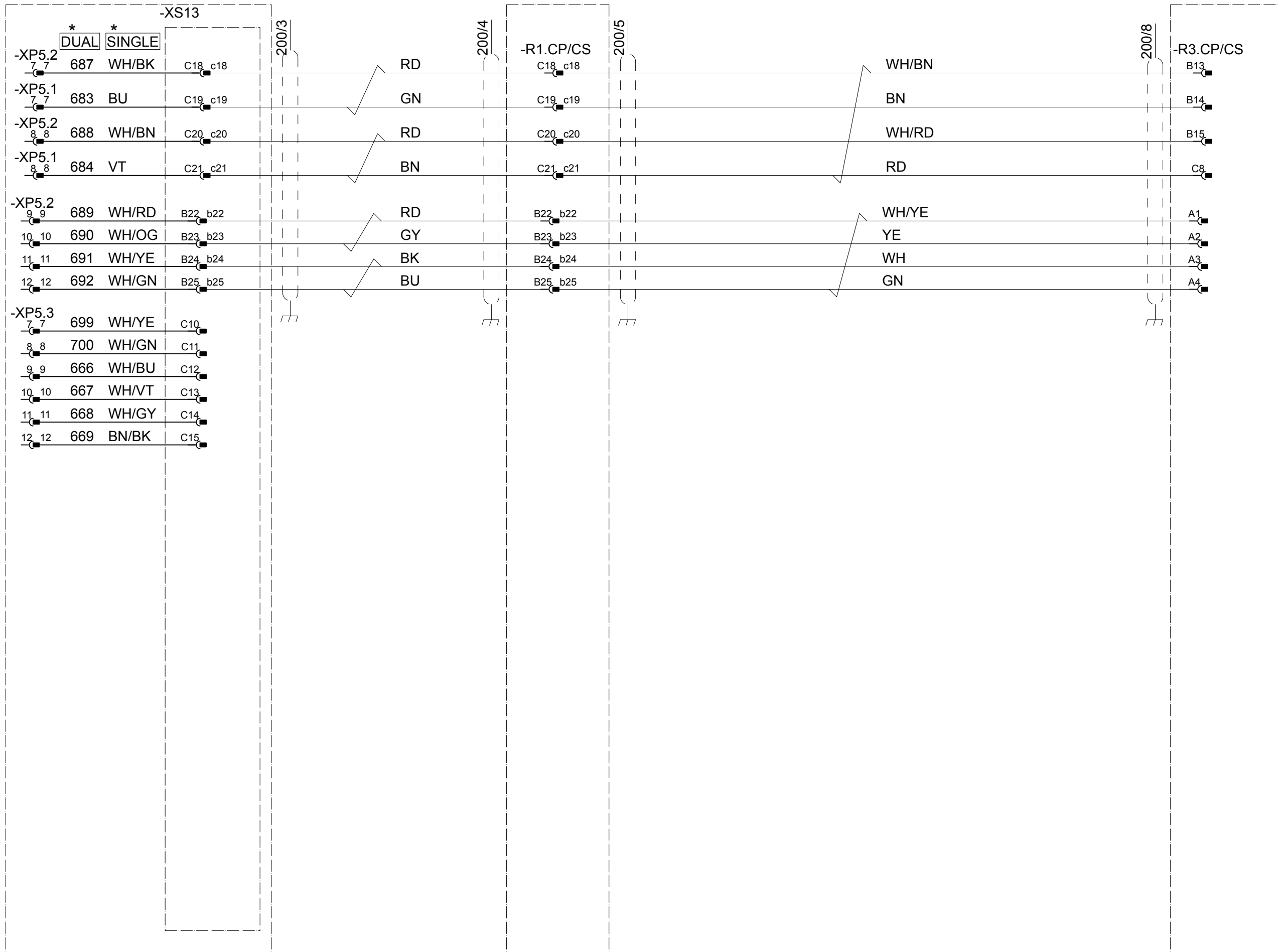
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 FLOOR HARNESS
 3HAC022957-001,002,003,006
 LOWER/UPPER ARM HARNESS
 3HAC024654-001

* Circuit diagram shows marking
 on wires for both dual and
 single cabinet

-ROBOTCABINET

-MANIPULATOR BASE

-AXIS 6



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IRB6620/IRB6620LX & IRC5
 CUSTOMER SIGNALS, PARALLEL
 TYPE H and HSe

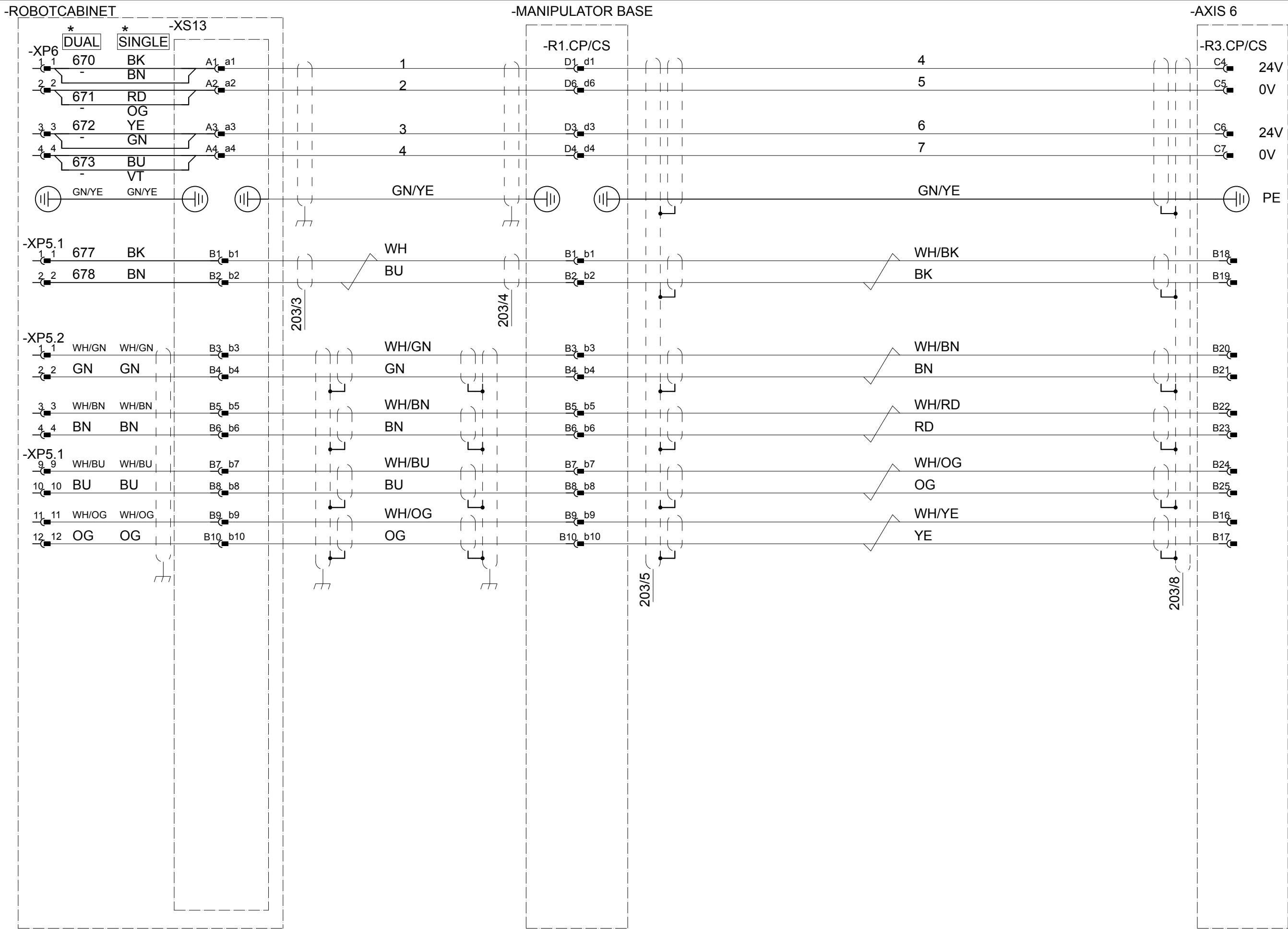
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TYPE H and HSe
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 COMMUNICATION
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 3HAC024371-001 (Single)
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 FLOOR HARNESS
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 LOWER/UPPER ARM HARNESS
 3HAC024655-001

* Circuit diagram shows marking
 on wires for both dual and
 single cabinet



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 CUSTOMER SIGNALS, CANBUS
 TYPE H and HSe

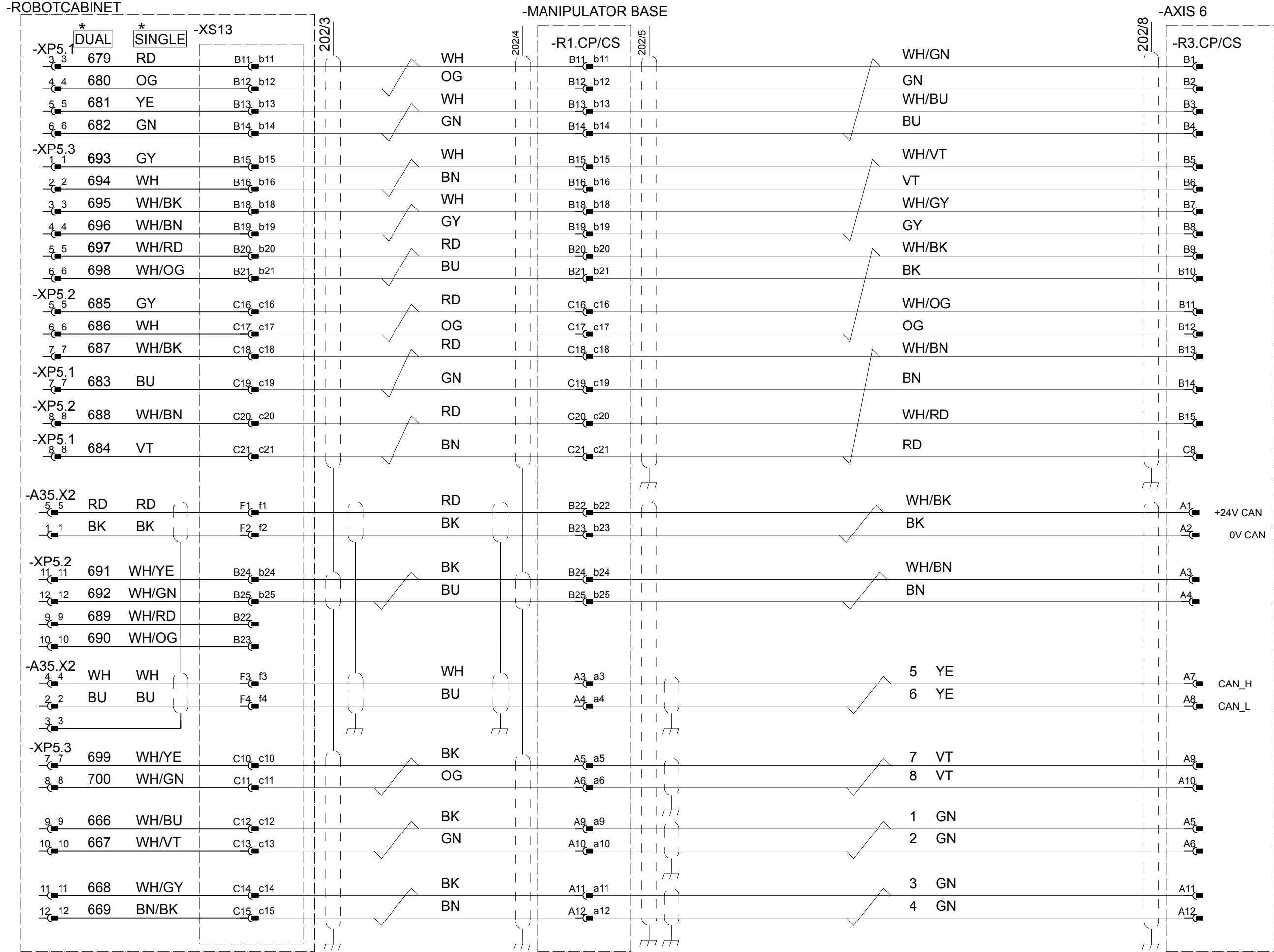
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 Approved by, date: JanErik Nähls

TYPE H and HSe
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 COMMUNICATION
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 HARNESS IN CABINET
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 3HAC024371-001 (Single)
 3HAC022866-001
 FLOOR HARNESS
 3HAC022978-001,002,003,006
 LOWER/UPPER ARM HARNESS
 3HAC024655-001

* Circuit diagram shows marking
 on wires for both dual and
 single cabinet



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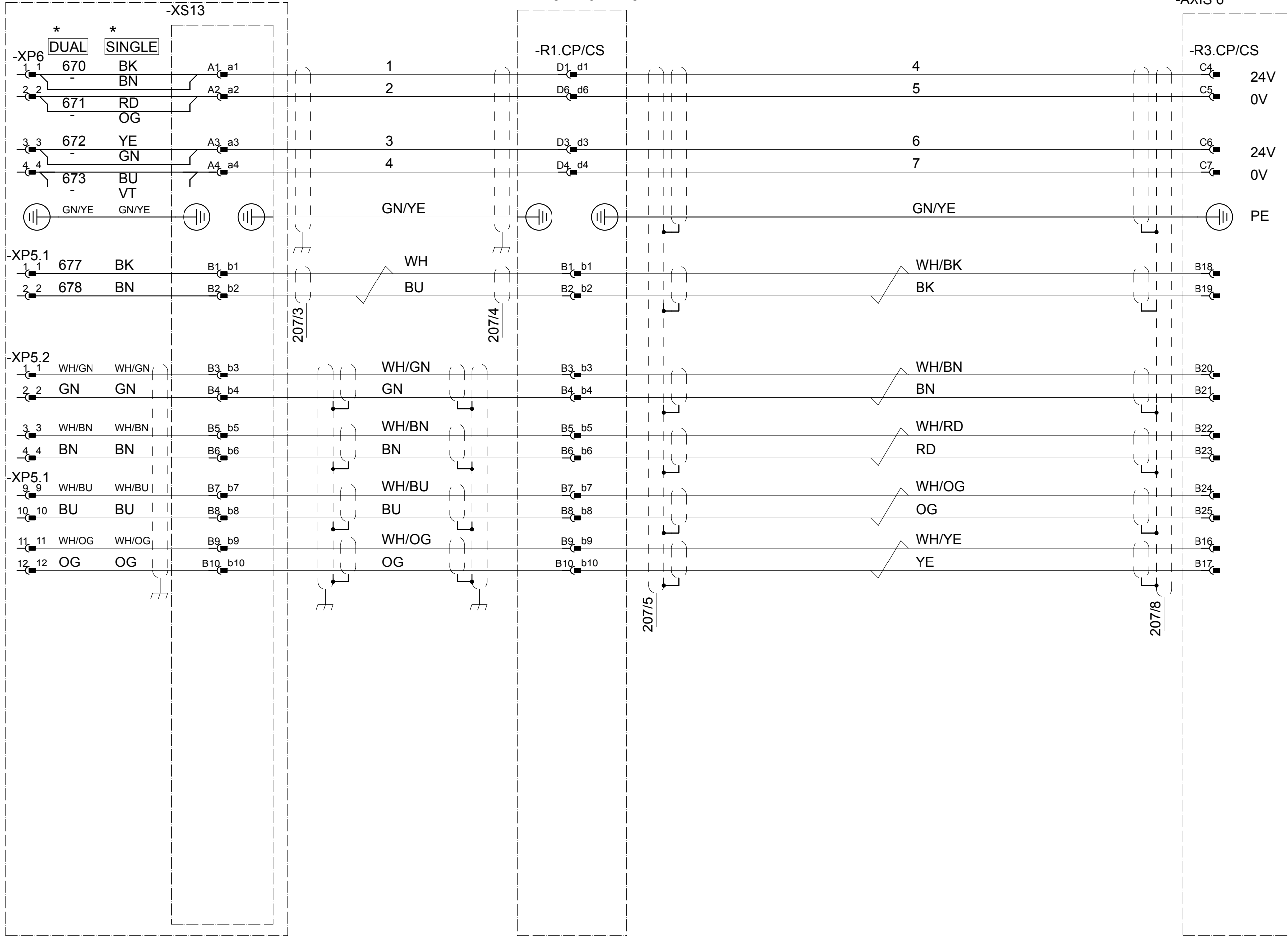
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 FLOOR HARNESS
 3HAC022988-001,002,003,006
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* Circuit diagram shows marking on wires for both dual and single cabinet

-ROBOTCABINET

-MANIPULATOR BASE

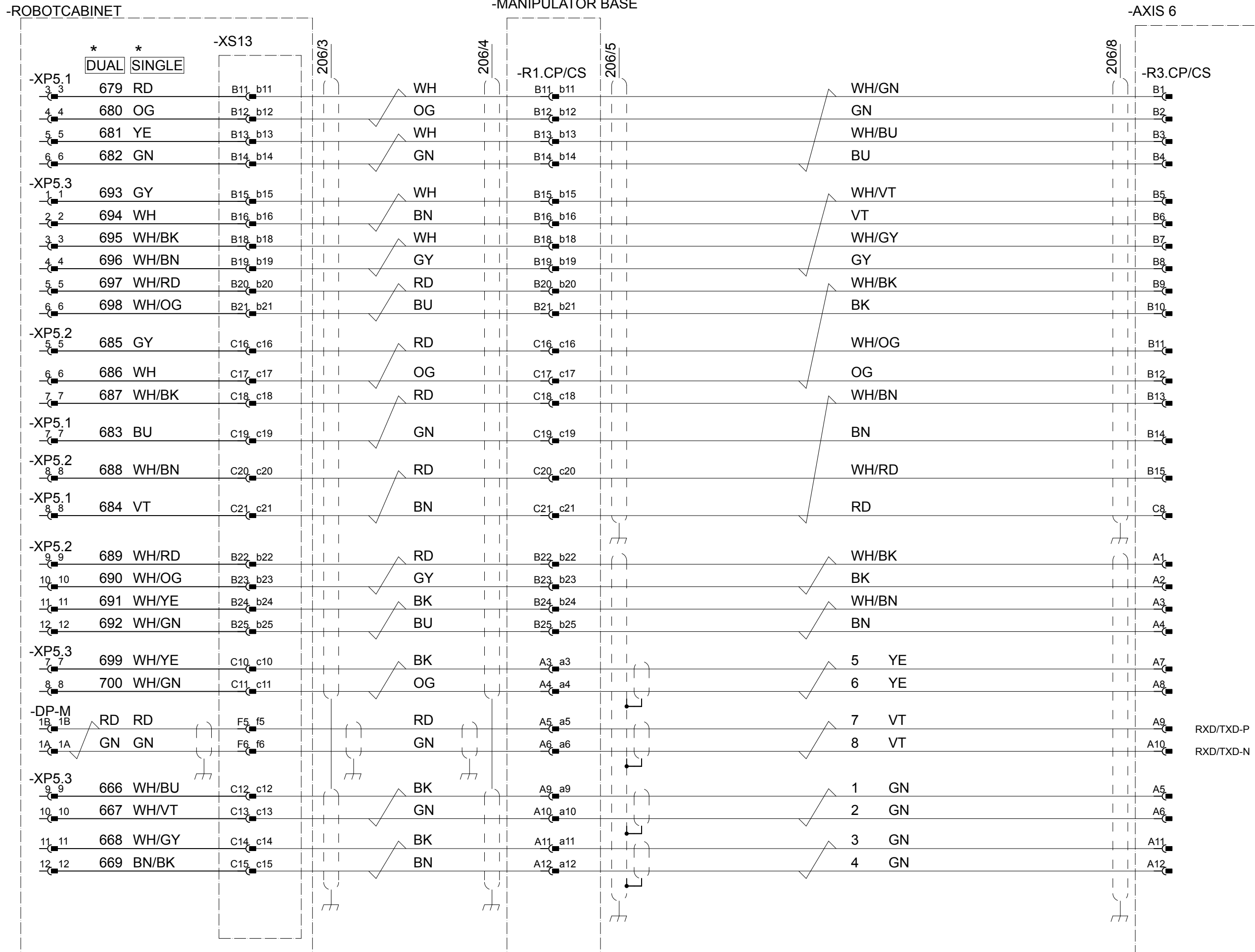
-AXIS 6



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 PROFIBUS
 COMMUNICATION
 VALID FOR
 HARNESS IN CABINET
 3HAC022852-001 (Dual)
 3HAC024371-001 (Single)
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 FLOOR HARNESS
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 LOWER/UPPER ARM HARNESS
 3HAC024655-001

* Circuit diagram shows marking
 on wires for both dual and
 single cabinet



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 CUSTOMER SIGNALS, PROFIBUS
 TYPE H and HSe

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Plant: = DP
 Location: + HSe
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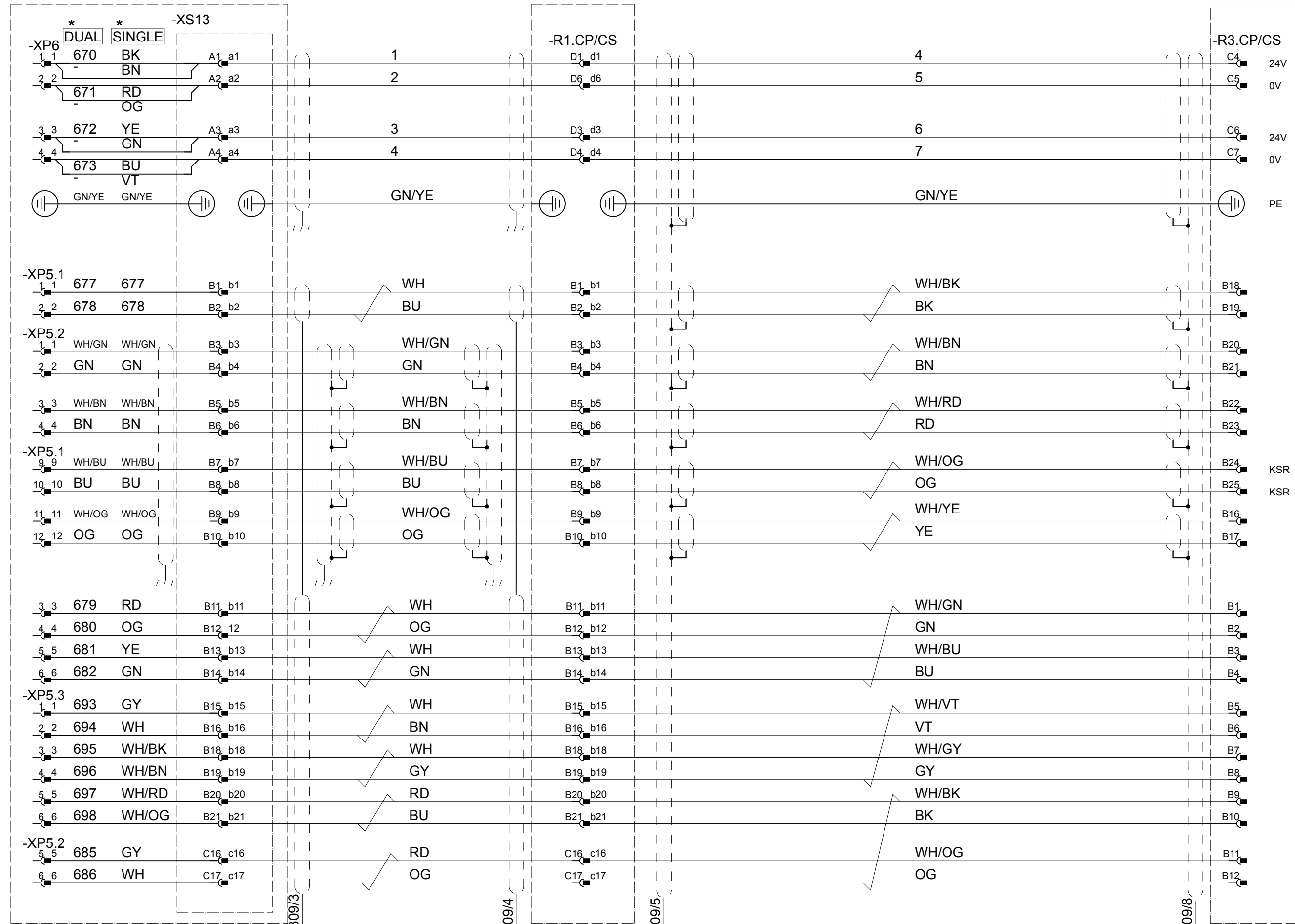
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 ETHERNET COMMUNICATION
 VALID FOR HARNESS
 IN CABINET
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 3HAC024371-001 (Single)
 FLOOR HARNESS
 3HAC022957-001, 002, 003, 006
 LOWER/UPPER ARM HARNESS
 3HAC038556-001

* Circuit diagram shows marking on the wires for both dual and single cabinet

-ROBOTCABINET

-MANIPULATOR BASE

-AXIS 6



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 Pg 250-251: Pages added.

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IRB6620/IRB6620LX & IRC5
 CUSTOMER SIGNALS, ETHERNET
 TYPE H and HSe

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 3HAC026136-001

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 Sublocation: +

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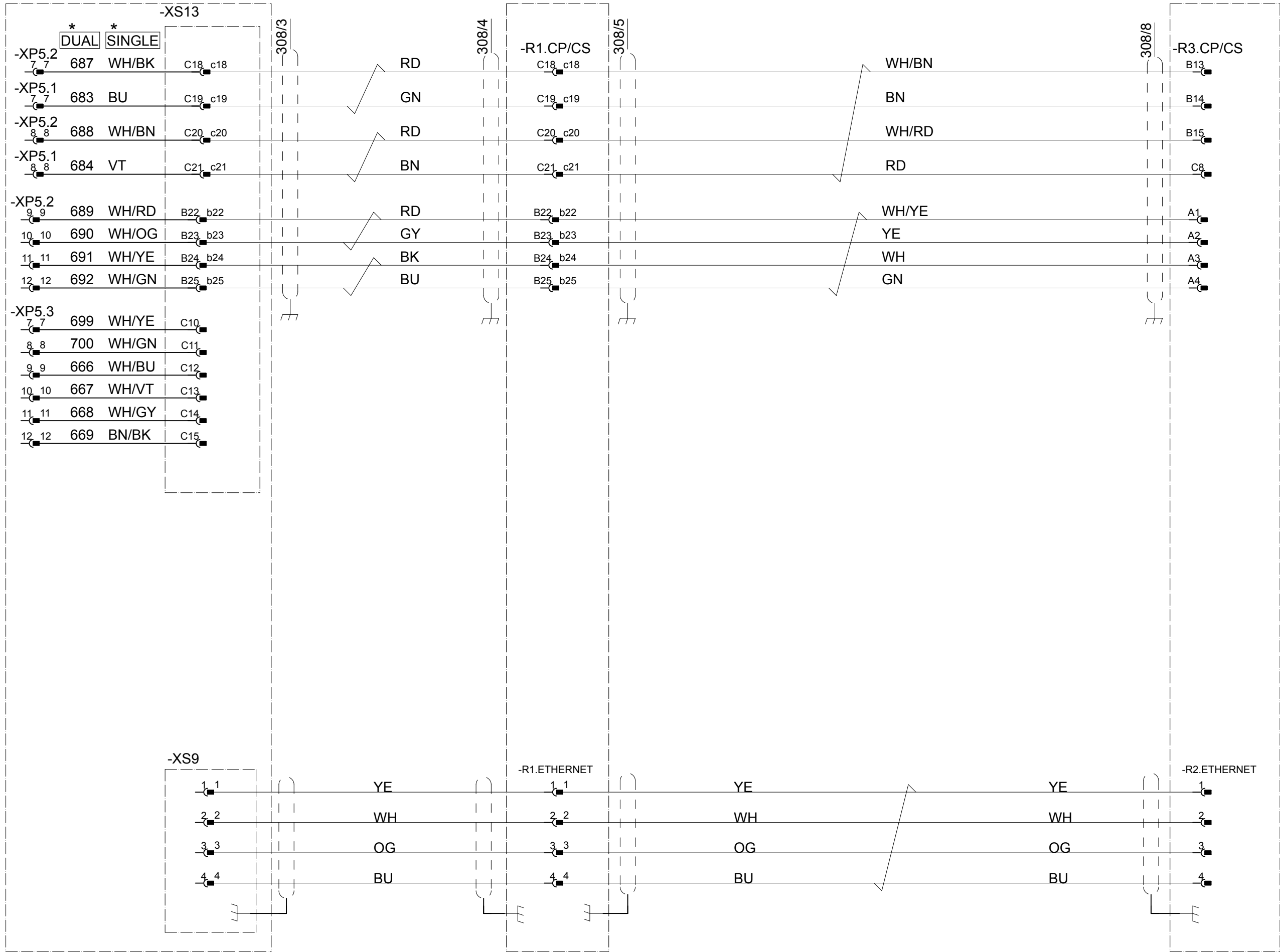
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 3HAC022957-001, 002, 003, 006
 LOWER/UPPER ARM HARNESS
 3HAC038556-001

* Circuit diagram shows
 marking on the wires for both
 dual and single cabinet

-ROBOTCABINET

-MANIPULATOR BASE

-AXIS 6



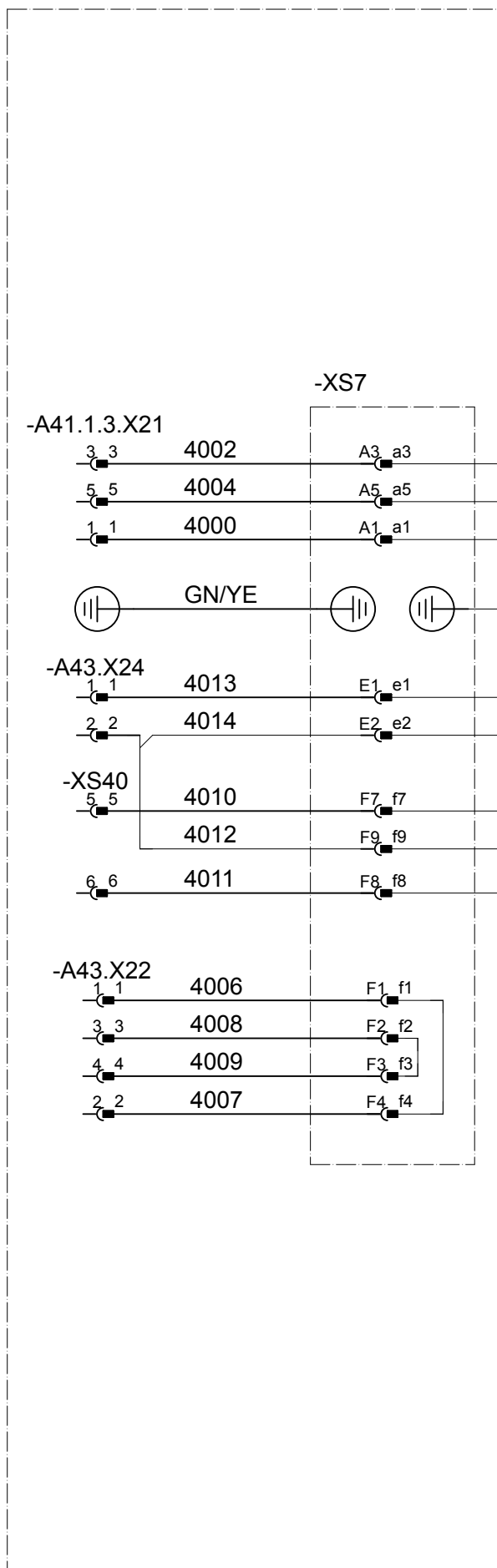
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 3HAC026414-001

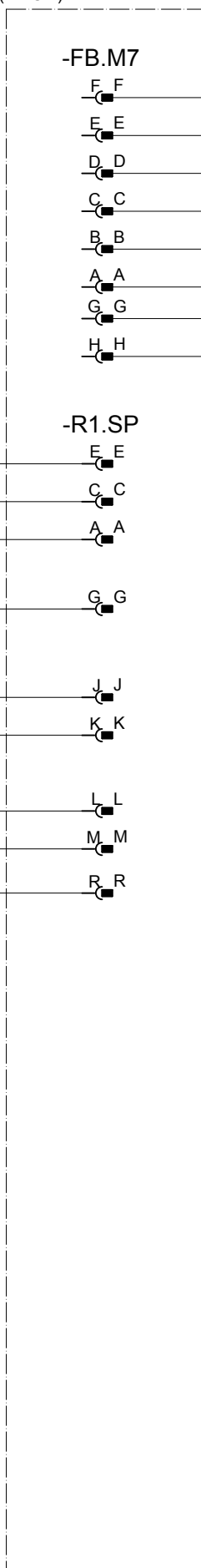
SERVO POWER
 VALID FOR
 HARNESS IN CABINET
 3HAC021791-001
 FLOOR HARNESS
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Type HSe
 Signals to pedestal gun
 See page pedestalgun (PG)
 In circuit diagram 3HAC026208-001

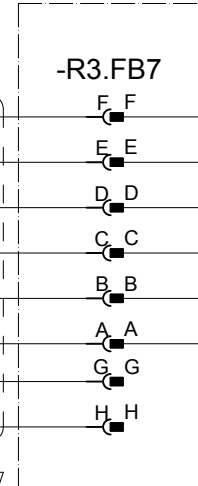
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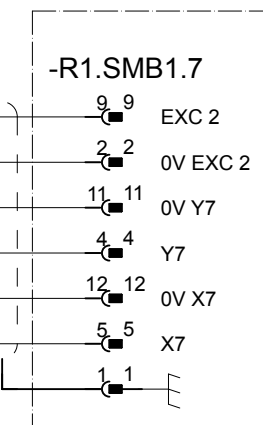
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 (AXIS 7)



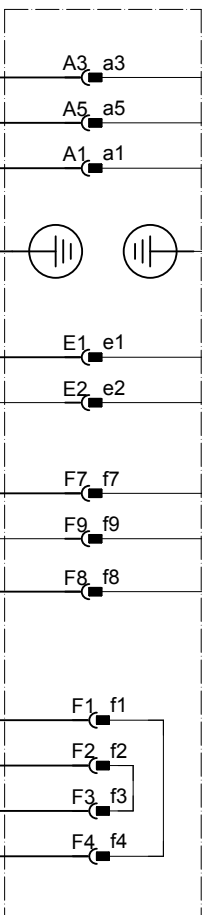
-MANIPULATOR BASE



-SMB



-XS7



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SERVO PEDESTAL GUN

TYPE HSe

Status: 2016-11-11

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TYPE
7TH AXIS POWER SIGNALS

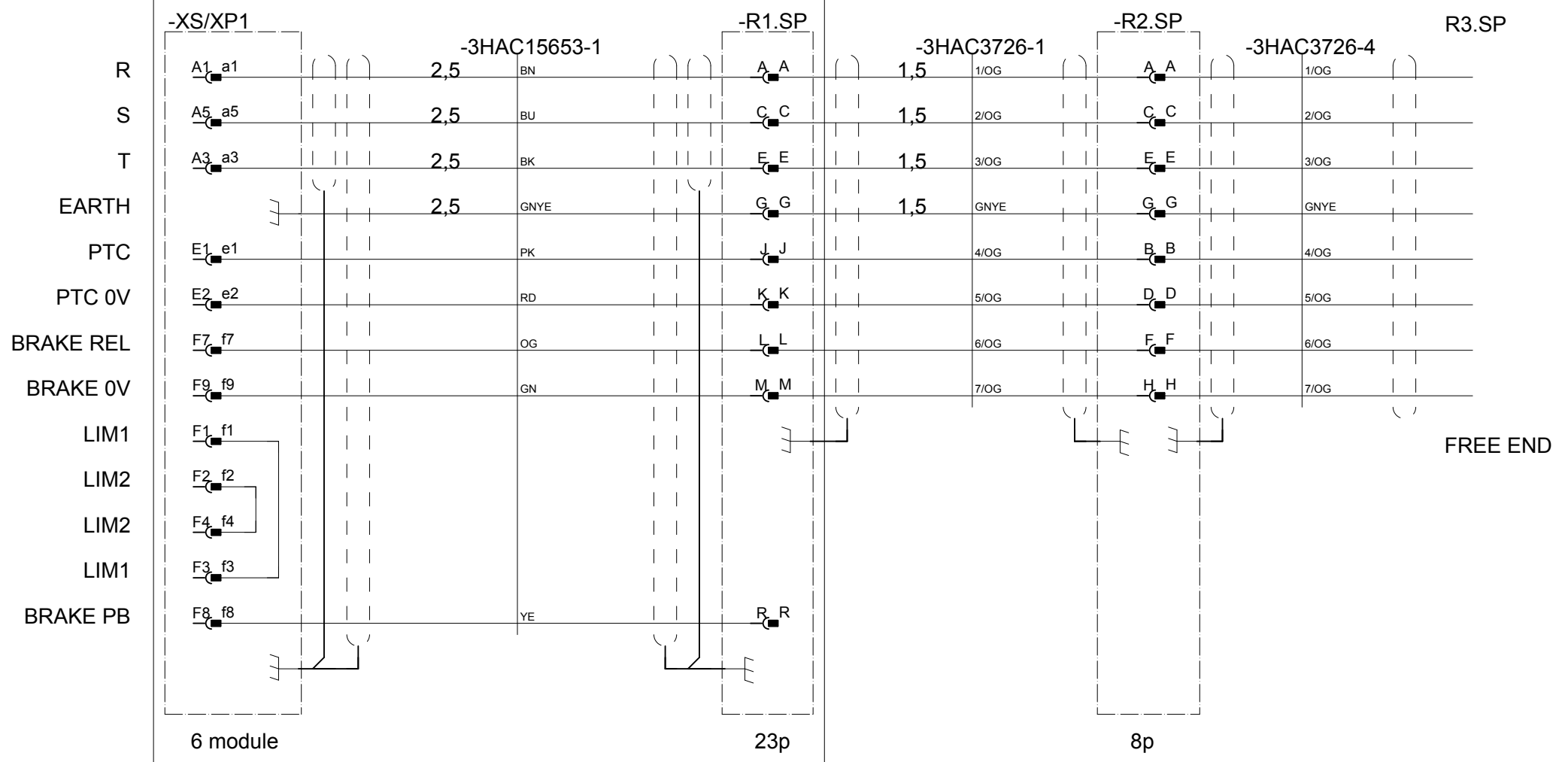
VALID FOR
LOWER ARM HARNESS
3HAC029579-001, 005

UPPER ARM HARNESS
3HAC029580-001, -005

DRIVE MODULE CABINET

For further information
see circuit diagram,
3HAC024480-004
for single cabinet.

MECHANICAL UNIT



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REGION E



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ROBOT GUN (RG) - IRBDP SW5
POWER

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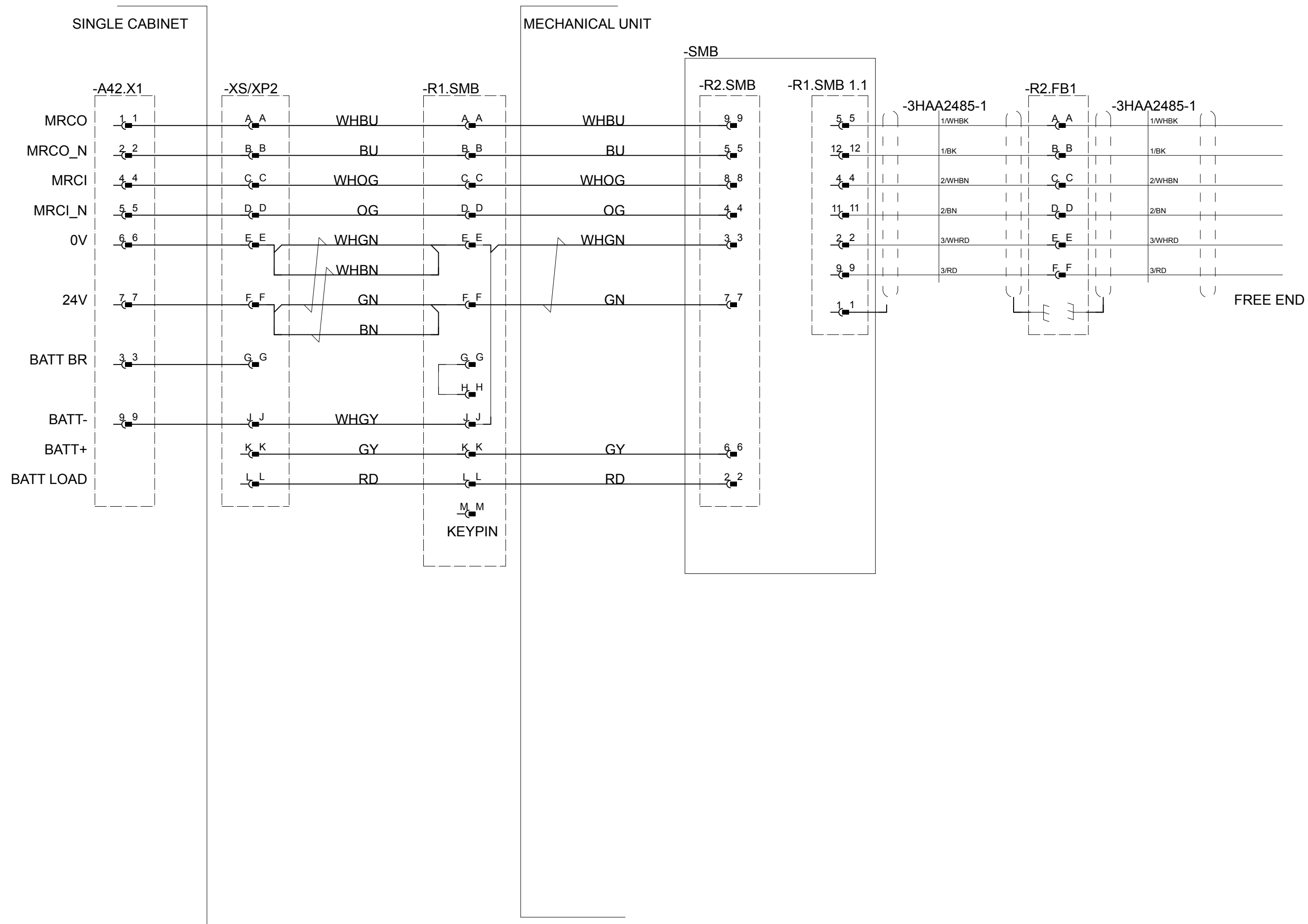
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Sublocation: +

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09
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Total 45

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TYPE Se AND HSe
7TH AXIS FEEDBACK SIGNALS

LOWER/UPPER ARM HARNESS
3HAC030638-001, 005



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REGION E



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ROBOT GUN (RG) - IRBDP SW5
SIGNAL

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