

The information in this document is subject to change without notice and should not be construed as a commitment by ABB. ABB assumes no responsibility for any errors that may appear in this document.

Except as may be expressly stated anywhere in this document, nothing herein shall be construed as any kind of guarantee or warranty by ABB for losses, damages to persons or property, fitness for a specific purpose or the like.

In no event shall ABB be liable for incidental or consequential damages arising from use of this document.

This document and parts thereof must not be reproduced or copied without ABB's written permission, and contents thereof must not be imparted to a third party nor be used for any unauthorized purpose. Contravention will be prosecuted.

Additional copies of this document may be obtained from ABB at its then current charge.

© Copyright 2016 ABB ALL right reserved.

ABB AB

SE-721 68 Västerås
Sweden

Latest revision: ECO 88650, WI 140679
Pg 3: Legend updated.
Pg 56: Welding connectors added.
Pg 101, 103, 105, 151, 154, 156: Welding cable added.



Lab/Office:
DMRO SE
PRIM

IRB6700

COPYRIGHT PAGE

DRESS PACK

Status: 2017-02-24

Approved

Document no.

3HAC044246-002

Plant: = SP
Location: +
Sublocation: +

Rev. Ind

03

Page1


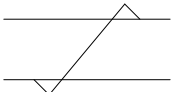
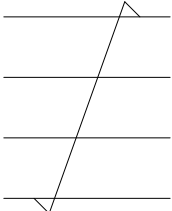
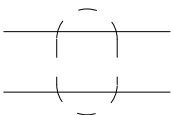
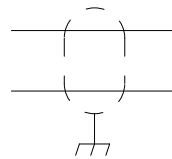
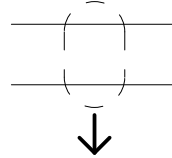
Next 2

Total 31

Prepared by, date: EM 2017-02-17 Approved by, date: JN 2017-02-24

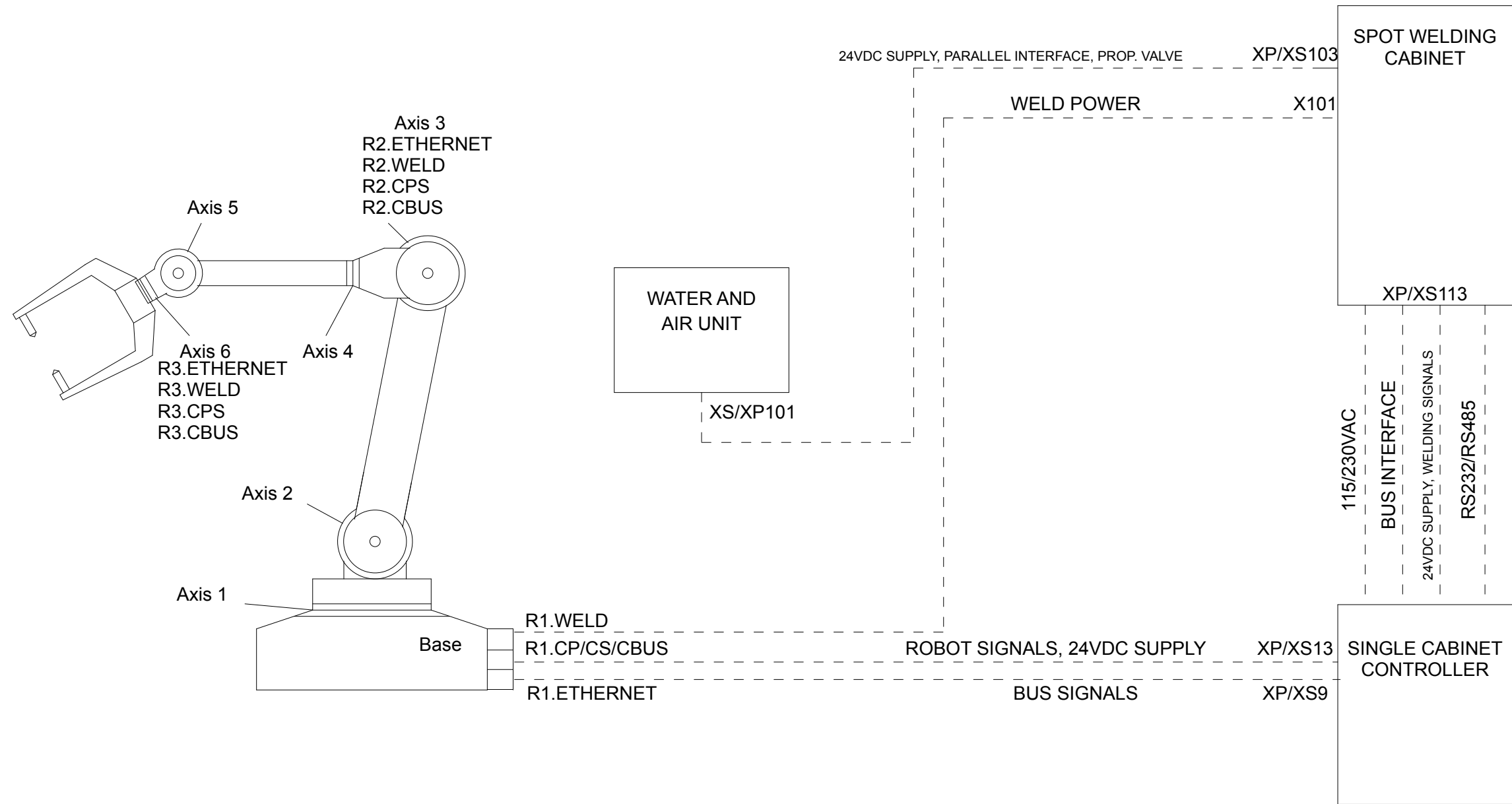
ABB_table_of_contents

We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

1	2	3	4	5	6	7	8
Paracom	Parallel Communication			Protective Earth (PE)			
Parabuscom	Parallel and Bus Communication (CANBUS, PROFIBUS and DEVICENET)			Twisted wires			
Paramulti	Parallel and Ethernet Communication			Quad twined wires			
S	Welding with Pneumatic Gun			Screened wires			
Se	Welding with Servo Gun			Screen is connected to earth			
H	Material Handling			Screen connection continues on the next page			
HS	Material Handling and Pneumatic Gun						
HSE	Material Handling and Servo Gun						
FB	Motor Feedback Signal (7th axis)						
SMB	Serial Measurment Board						
CP/CS	Customer Power/Customer Signal						
CBUS	Bus Signal						
SP	Servo Gun Signal						
MH3	Harness between axis 3 to axis 6						
MH6	Harness between Manipulator base to axis 6						

We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

BLOCK DIAGRAM TYPE S (pneumatic gun)
IRBDP SW6
Single cabinet controller, IRC5: See circuit diagram, 3HAC024480-011
and 3HAC026871-020 for Panel mounted controller.
Dashed cables: See circuit diagram SpotPack, 3HAC026208-001 & 3HAC044736-001.



Latest revision: ECO 88650, WI 140679
Pg 3: Legend updated.
Pg 56: Welding connectors added.
Pg 101, 103, 105, 151, 154, 156: Welding cable added.

Prepared by, date: EM 2017-02-17 | Approved by, date: JN 2017-02-24



Lab/Office:
DMRO SE
PRIM

IRB6700

BLOCK DIAGRAM - TYPE S

DRESS PACK

Status: 2017-02-24

Approved

Document no.

3HAC044246-002

Plant: = SP
Location: + S
Sublocation: +

Rev. Ind

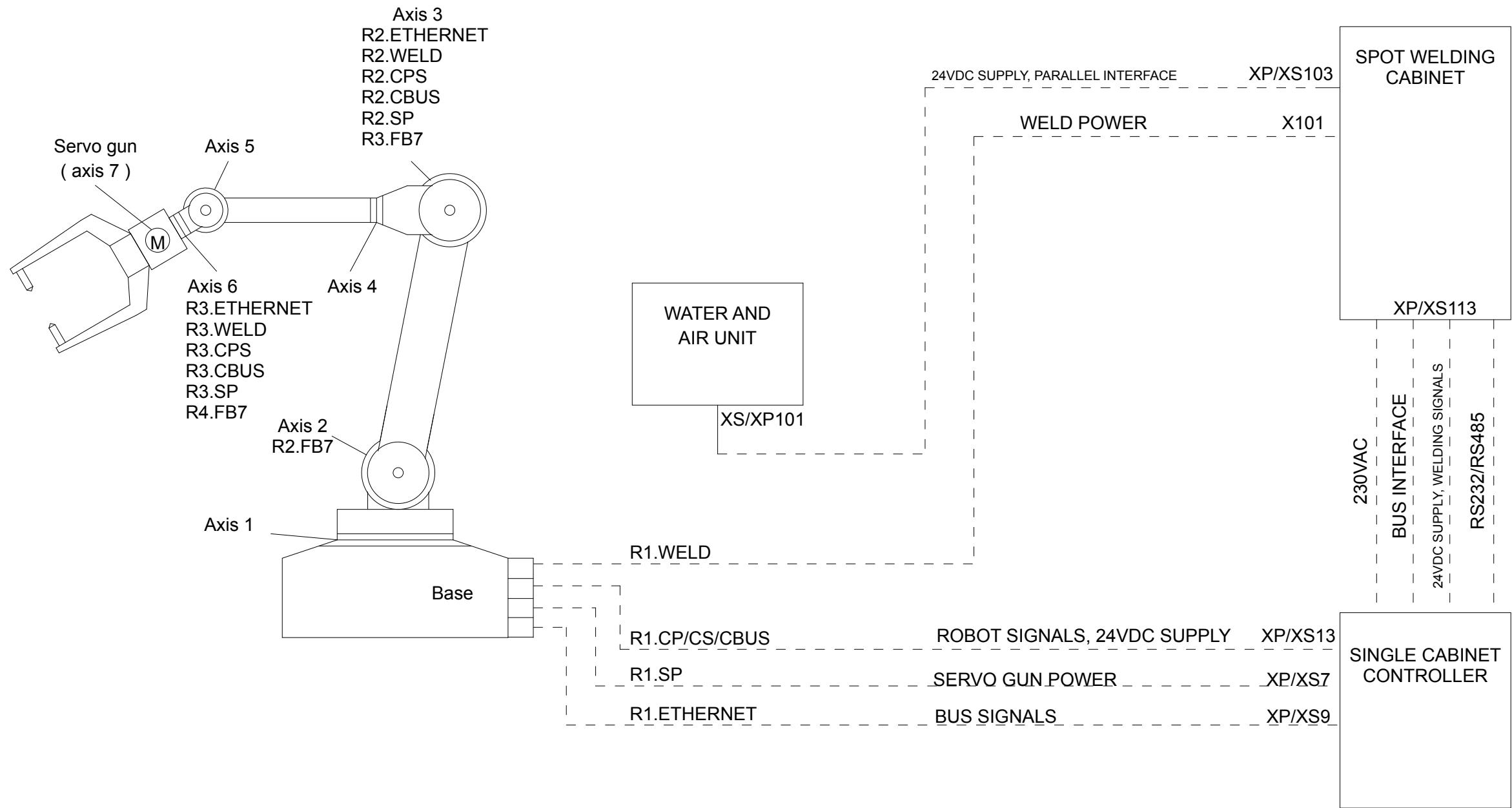
03

Page50

Next +Se/51
Total 31

We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

BLOCK DIAGRAM TYPE Se (servo gun)
IRBDP SW6
Single cabinet controller, IRC5: See circuit diagram, 3HAC024480-011
and 3HAC026871-020 for Panel mounted controller.
Dashed cables: See circuit diagram SpotPack, 3HAC026208-001 & 3HAC044736-001.



Latest revision: ECO 88650, WI 140679
Pg 3: Legend updated.
Pg 56: Welding connectors added.
Pg 101, 103, 105, 151, 154, 156: Welding cable added.

Prepared by, date: EM 2017-02-17 Approved by, date: JN 2017-02-24



Lab/Office:
DMRO SE
PRIM

IRB6700

BLOCK DIAGRAM - TYPE Se

DRESS PACK

Status: 2017-02-24

Approved

Document no.

3HAC044246-002

Plant: = SP
Location: + Se
Sublocation: +

Rev. Ind

03

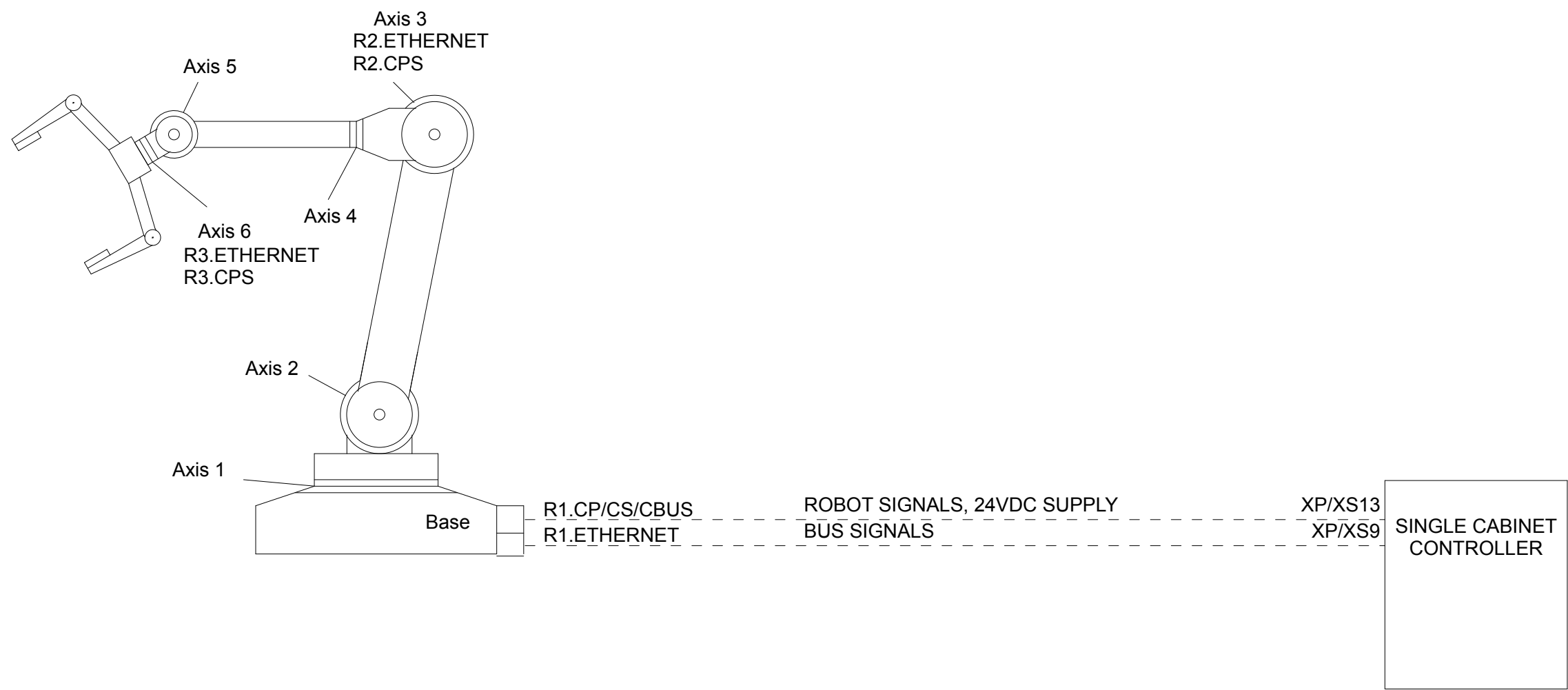
Page51

Next +H/52

Total 31

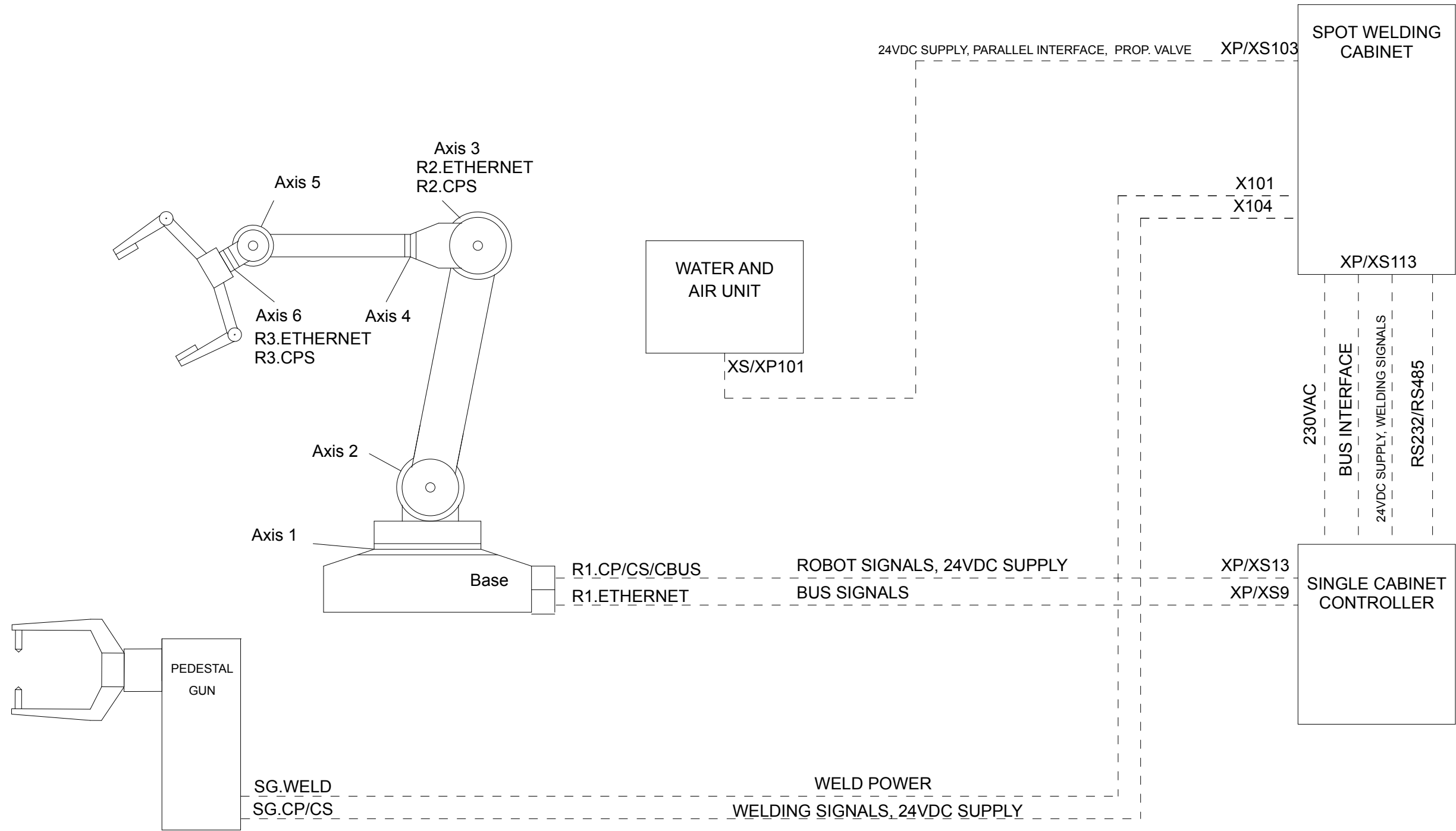
We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

BLOCK DIAGRAM TYPE H (material handling)
IRBDP MH6
Single cabinet controller, IRC5: See circuit diagram, 3HAC024480-011
and 3HAC026871-020 for Panel mounted controller.



We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

BLOCK DIAGRAM TYPE HS (material handling and pneumatic gun)
IRBDP SW6
Single cabinet controller, IRC5: See circuit diagram, 3HAC024480-011
and 3HAC026871-020 for Panel mounted controller.
Dashed cables: See circuit diagram SpotPack, 3HAC026208-001 & 3HAC044736-001.



Latest revision: ECO 88650, WI 140679
Pg 3: Legend updated.
Pg 56: Welding connectors added.
Pg 101, 103, 105, 151, 154, 156: Welding cable added.

Prepared by, date: EM 2017-02-17 Approved by, date: JN 2017-02-24



Lab/Office:
DMRO SE
PRIM

IRB6700

BLOCK DIAGRAM - TYPE HS

DRESS PACK

Status: 2017-02-24

Approved

Document no.

3HAC044246-002

Plant: = SP
Location: + HS
Sublocation: +

Rev. Ind

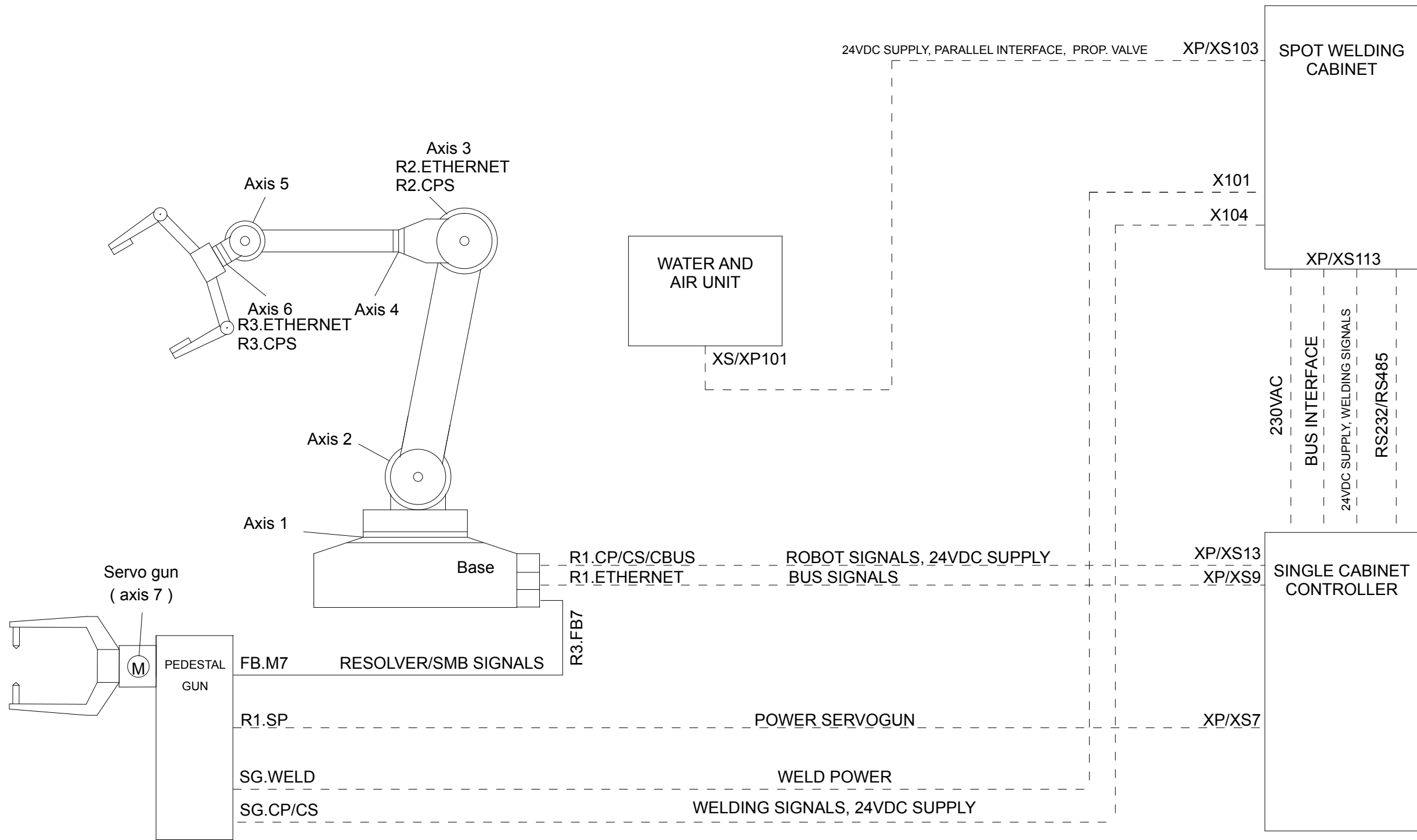
03

Page53

Next +HSe/5
Total 31

We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

BLOCK DIAGRAM TYPE HSe (material handling and servo gun)
IRBDP SW6
Single cabinet controller, IRC5: See circuit diagram, 3HAC024480-011
and 3HAC026871-020 for Panel mounted controller.
Dashed cables: See circuit diagram SpotPack, 3HAC026208-001 & 3HAC044736-001.



Latest revision: ECO 88650, WI 140679
Pg 3: Legend updated.
Pg 56: Welding connectors added.
Pg 101, 103, 105, 151, 154, 156: Welding cable added.

Prepared by, date: EM 2017-02-17 Approved by, date: JN 2017-02-24



Lab/Office:
DMRO SE
PRIM

IRB6700

BLOCK DIAGRAM - TYPE HSe

DRESS PACK

Status: 2017-02-24

Approved

Document no.

3HAC044246-002

Plant: = SP
Location: + HSe
Sublocation: +

Rev. Ind

03

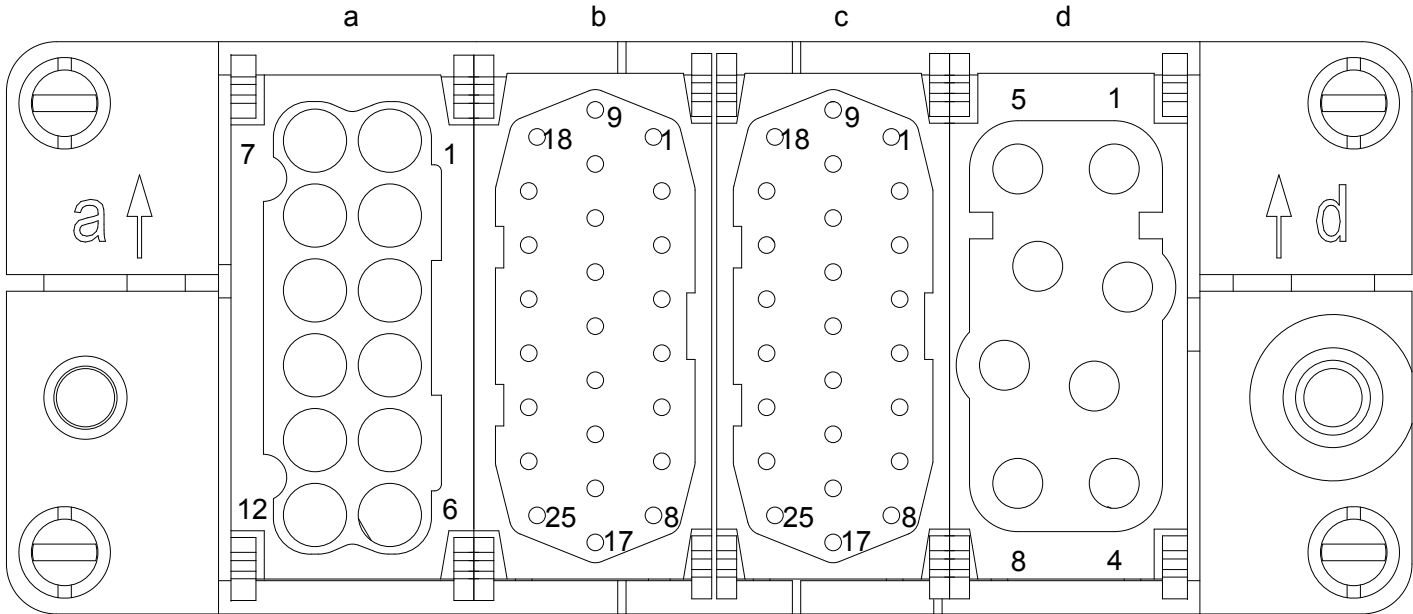
Page54

Next +CON/3
Total 31

We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

BLOCK DIAGRAM TYPE S/H

Male (R1.CP/CS)



HARTING HAN MODULE/

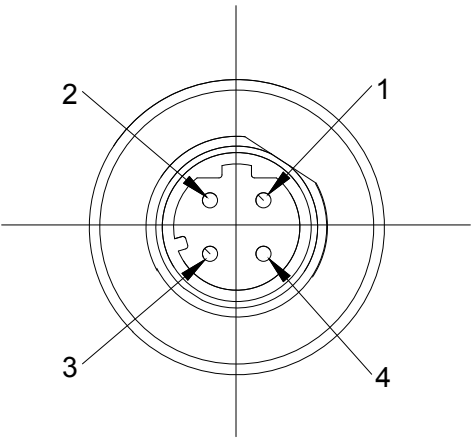
DD

HD

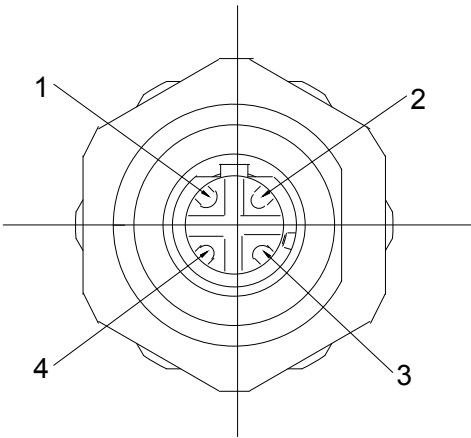
HD

EE

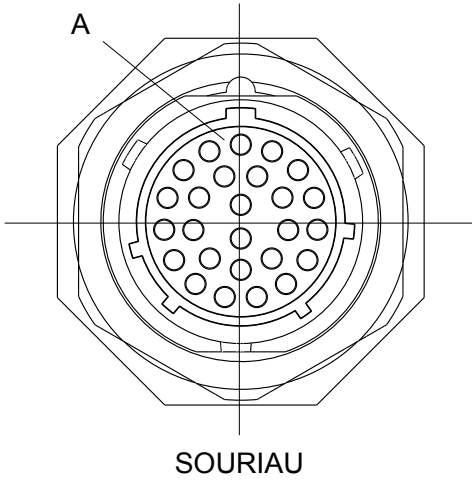
Male 4p
R2.ETHERNET
R3.ETHERNET



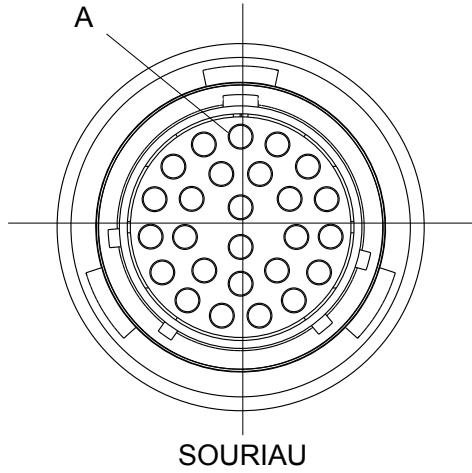
Female 4p
R1.ETHERNET
R2.ETHERNET



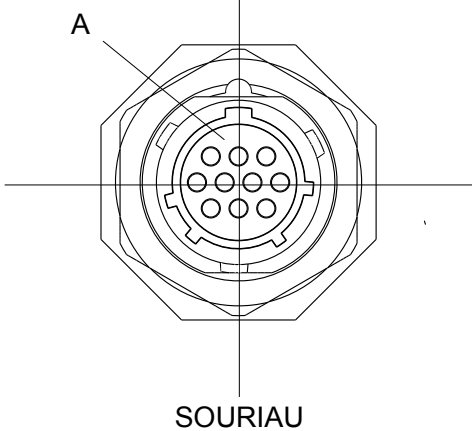
Female 26p (R2.CP/CS)



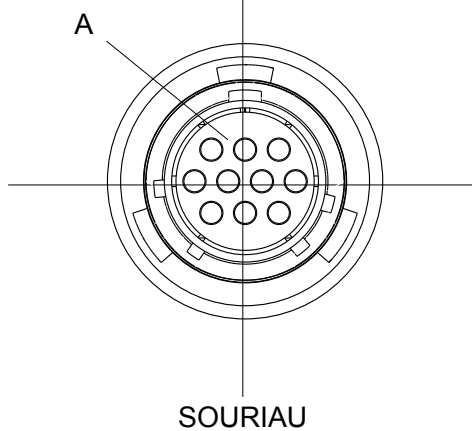
Female 26p (R3.CPS)
Male 26p (R2.CPS)



Female 10p (R2.CBUS)



Male 10p (R2.CBUS)
Female 10p (R3.CBUS)



Latest revision: ECO 88650, WI 140679
Pg 3: Legend updated.
Pg 56: Welding connectors added.
Pg 101, 103, 105, 151, 154, 156: Welding cable added.

Prepared by, date: EM 2017-02-17 Approved by, date: JN 2017-02-24

ABB

Lab/Office:
DMRO SE
PRIM

IRB6700

CONNECTOR LAYOUT

DRESS PACK

Status: 2017-02-24

Approved

Document no.

3HAC044246-002

Plant: = SP
Location: + CON
Sublocation: +

Rev. Ind

03

Page55

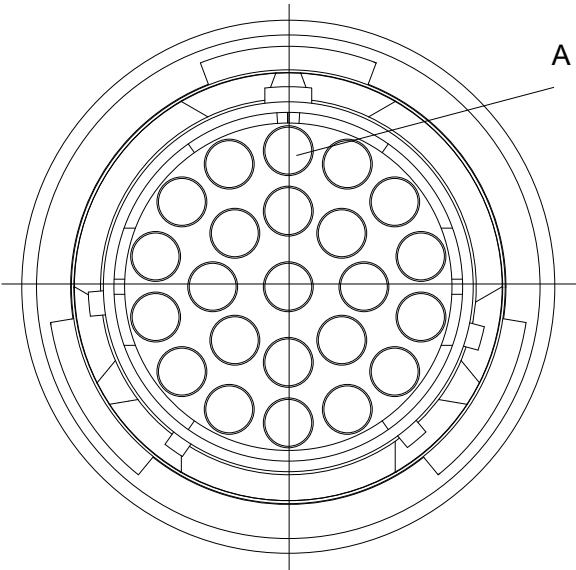
Next 56

Total 31

We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

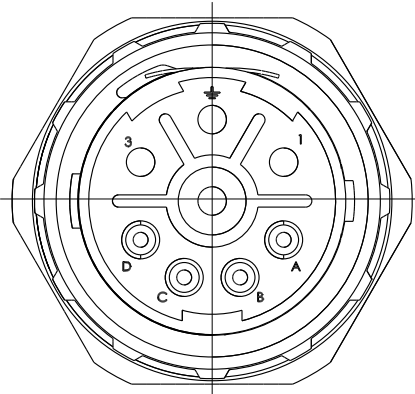
BLOCK DIAGRAM TYPE Se/S

Female 23p (R1.SP)



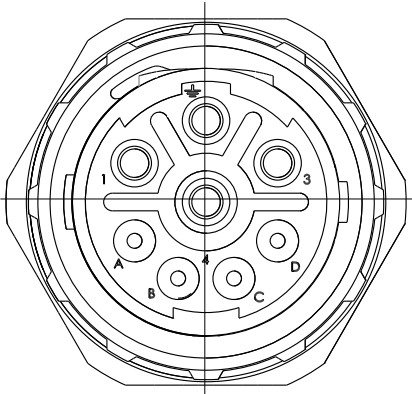
SOURIAU

Male 8p
R2.SP



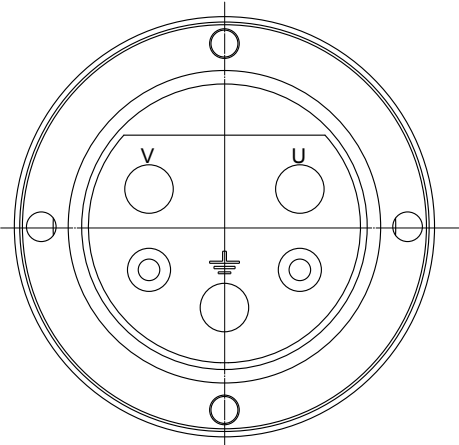
HUMMEL

Female 8p
R2.SP
R3.SP

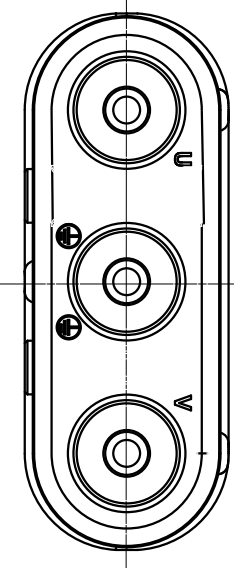


HUMMEL

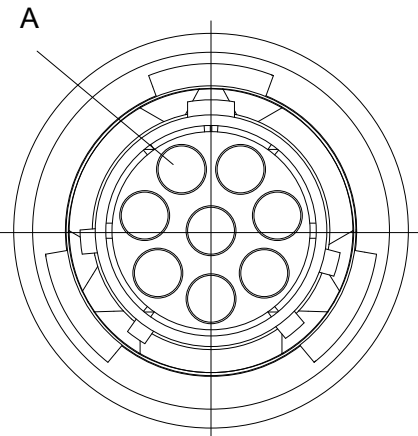
Male 3p
R1.WELD



Female & Male 3p
R2.WELD

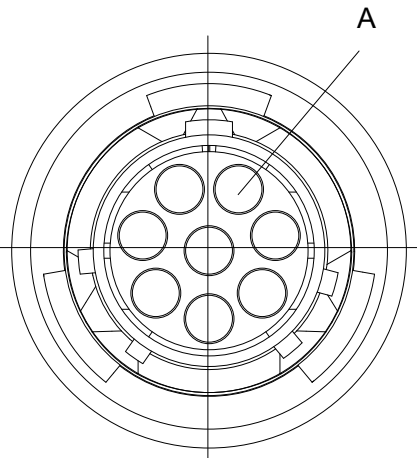


Female 8p (R2.FB7)



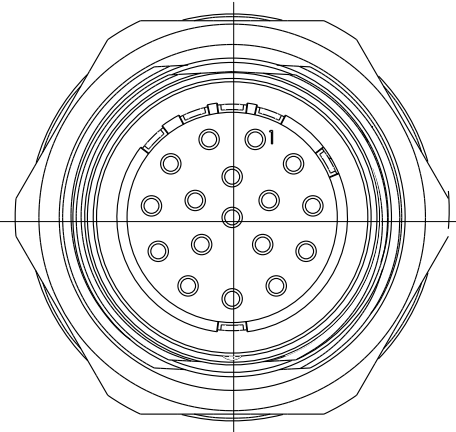
SOURIAU

Male 8p (R2.FB7)



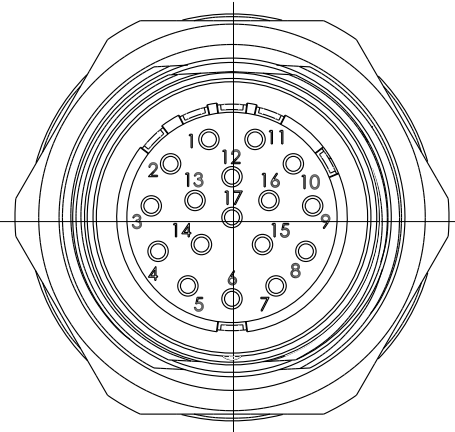
SOURIAU

Female 17p (R3.FB7)



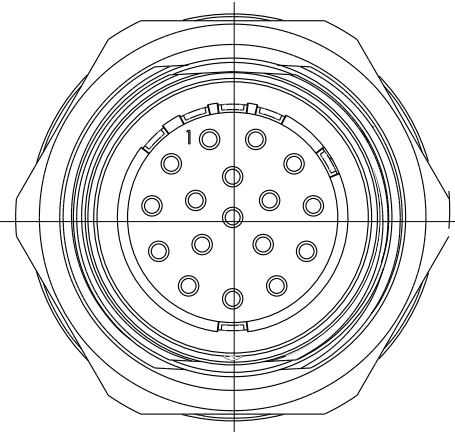
SOURIAU

Male 17p (R3.FB7)



SOURIAU

Female 17p (R4.FB7)



SOURIAU

Latest revision: ECO 88650, WI 140679
Pg 3: Legend updated.
Pg 56: Welding connectors added.
Pg 101, 103, 105, 151, 154, 156: Welding cable added.

Prepared by, date: EM 2017-02-17 Approved by, date: JN 2017-02-24



Lab/Office:
DMRO SE
PRIM

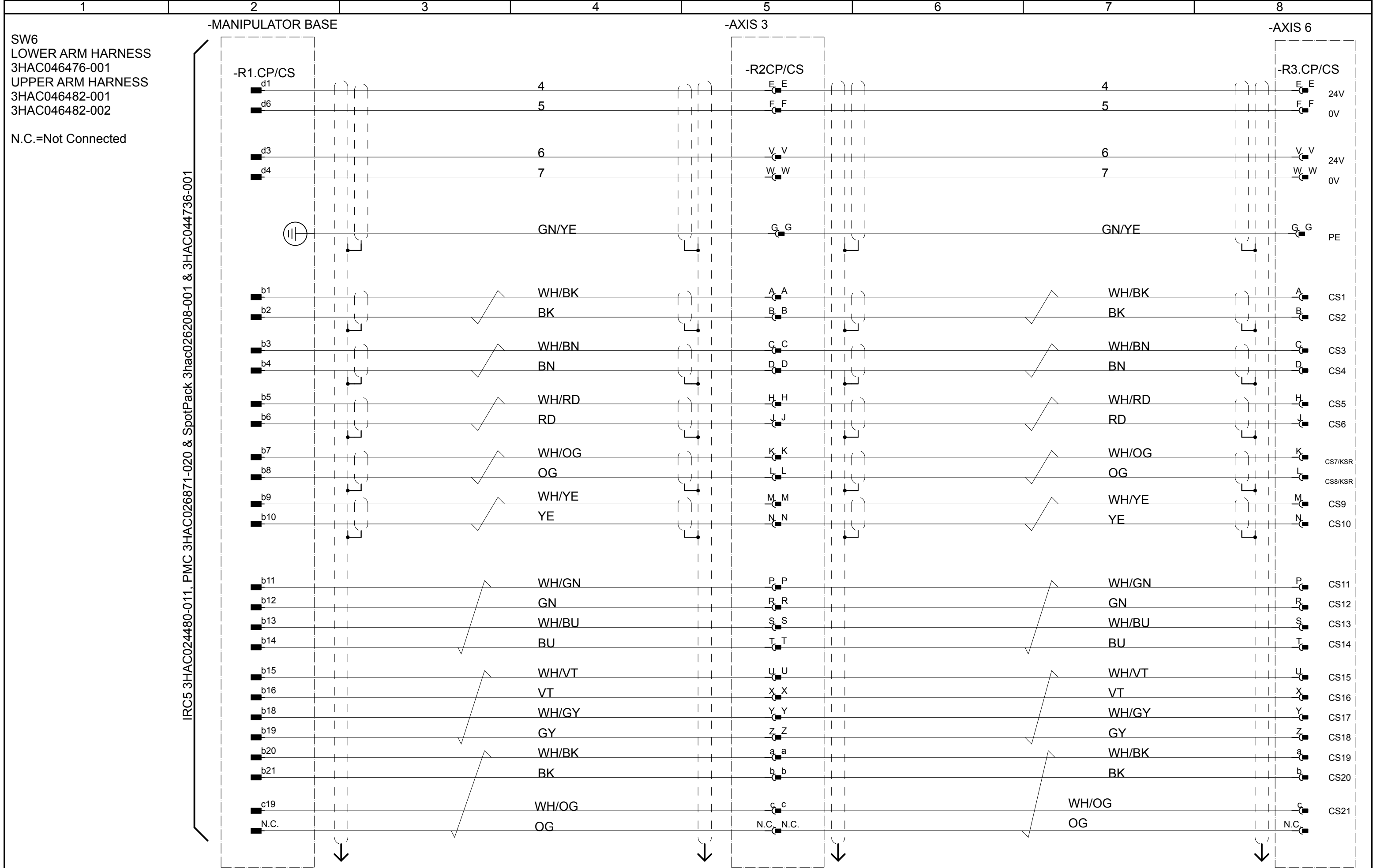
IRB6700
CONNECTOR LAYOUT
DRESS PACK

Status: 2017-02-24
Approved
Document no.
3HAC044246-002

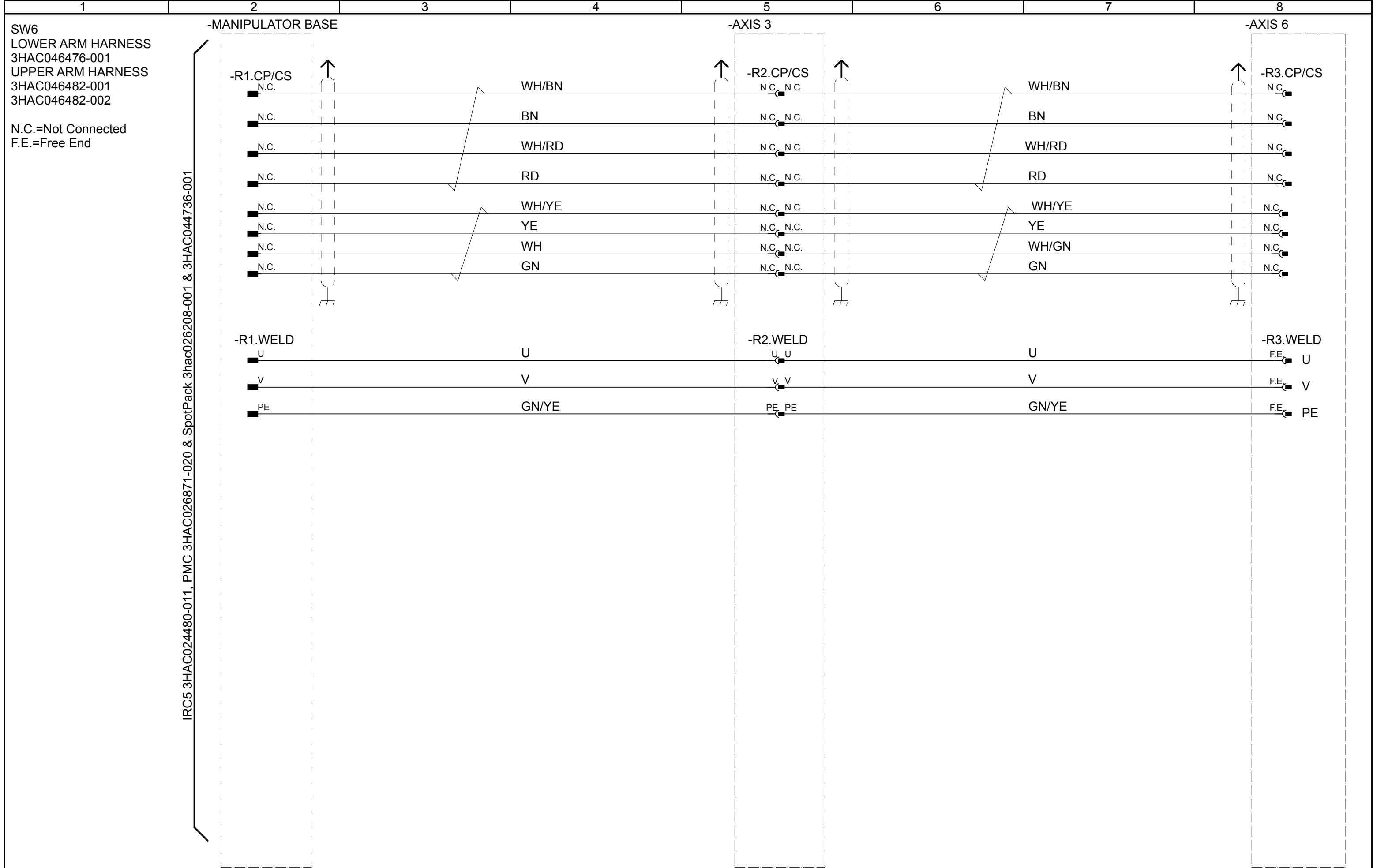
Plant: = SP
Location: + CON
Sublocation: +

Rev. Ind
03
Page 56
Next = DP+S
Total 31

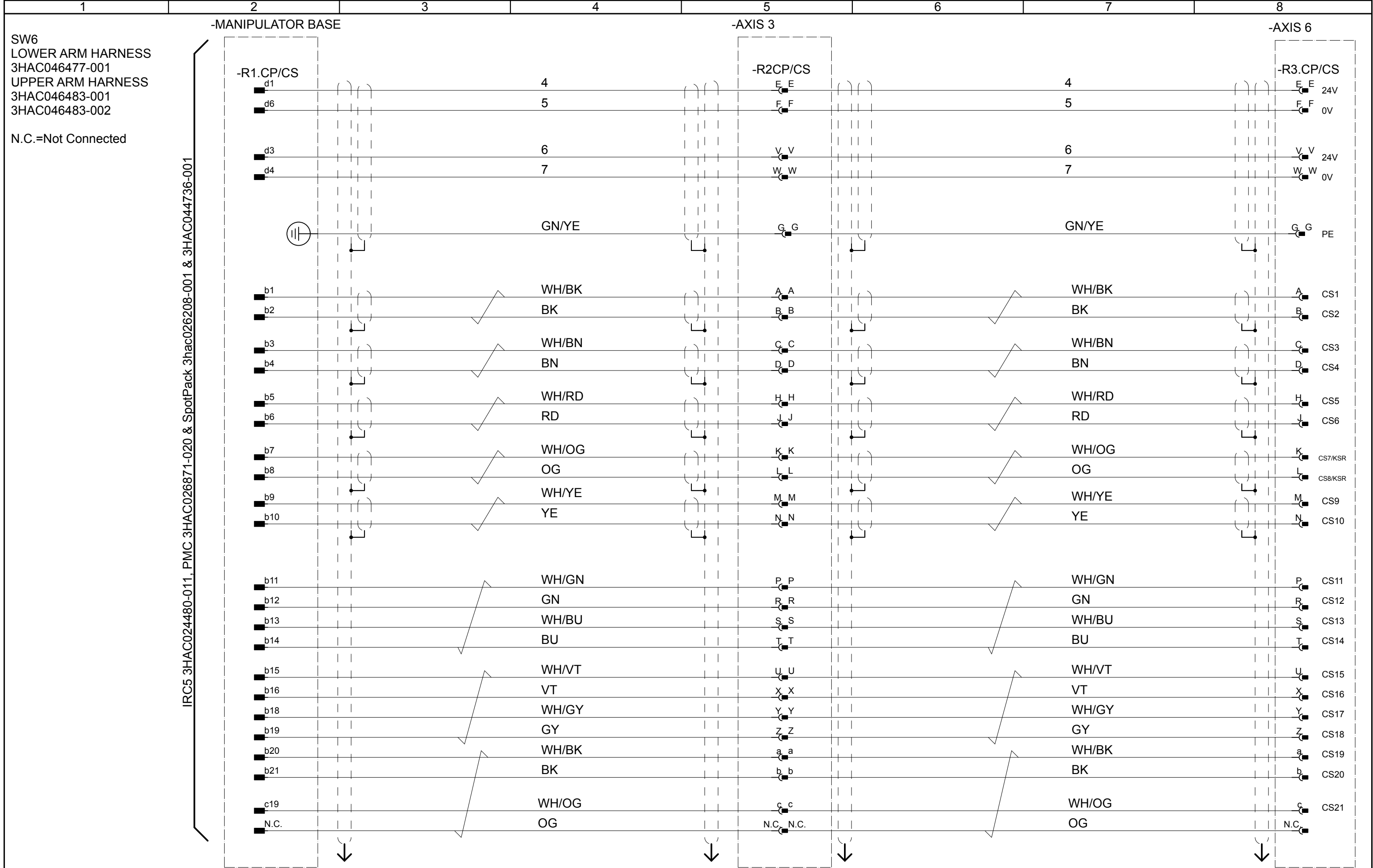
We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB



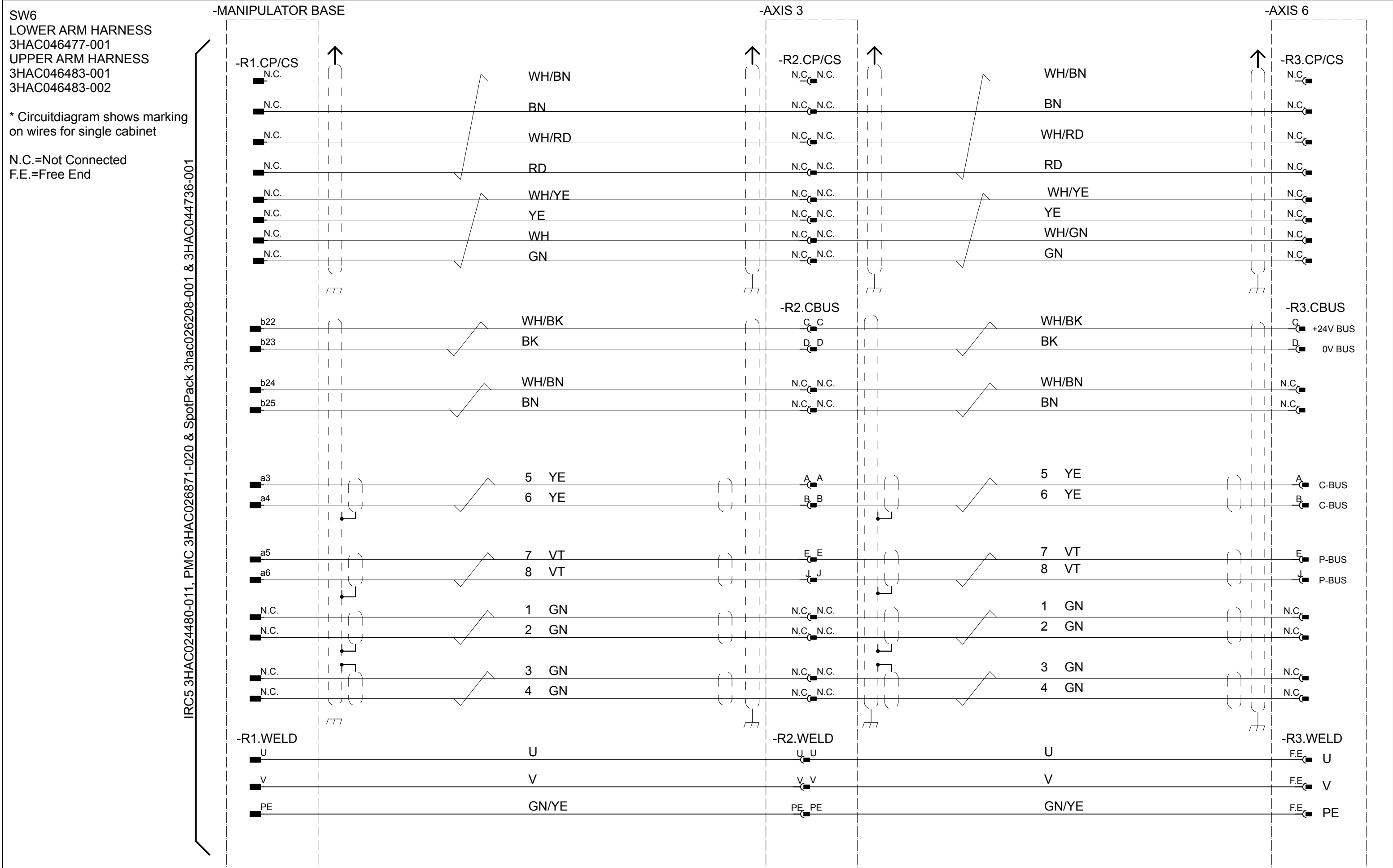
We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB



We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB



IRC5 3HAC024480-011, PMC 3HAC026871-020 & SpotPack 3hac026208-001 & 3HAC044736-001



Latest revision: ECO 88650, WI 140679
Pg 3: Legend updated.
Pg 56: Welding connectors added.
Pg 101, 103, 105, 151, 154, 156: Welding cable added.



Lab/Office: DMRO SE PRIM

IRB6700

PARABUSCOM SW6

TYPE S

Status:	2017-02-24
---------	------------

Approved

Document no.

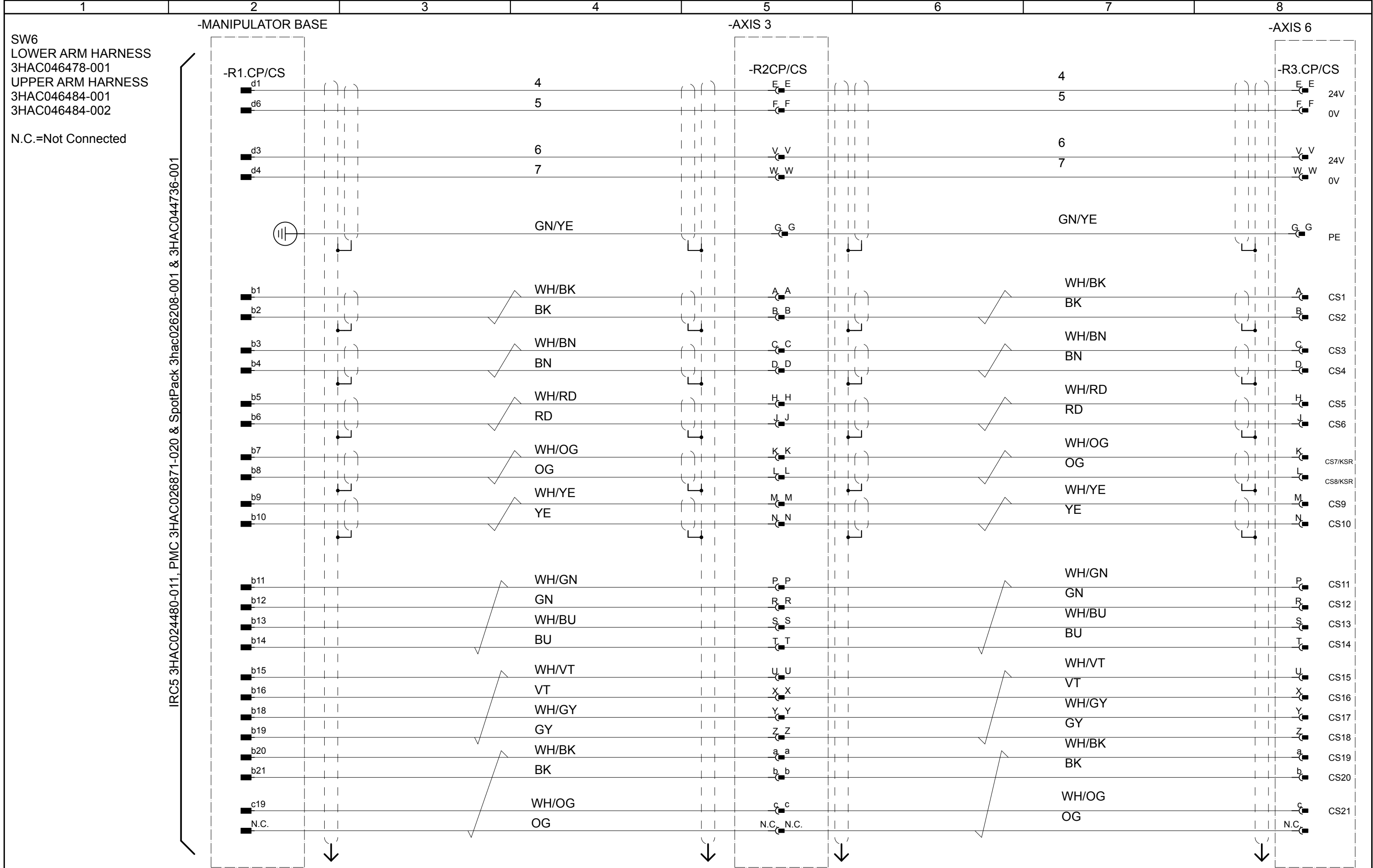
Plant:	= DP
Location:	+ S
Sublocation:	+ AX3

Rev	Ind	Page103
-----	-----	---------

03	Next 104	Total 31
----	----------	----------

Prepared by, date: EM 2017-02-17	Approved by, date: JN 2017-02-24
----------------------------------	----------------------------------

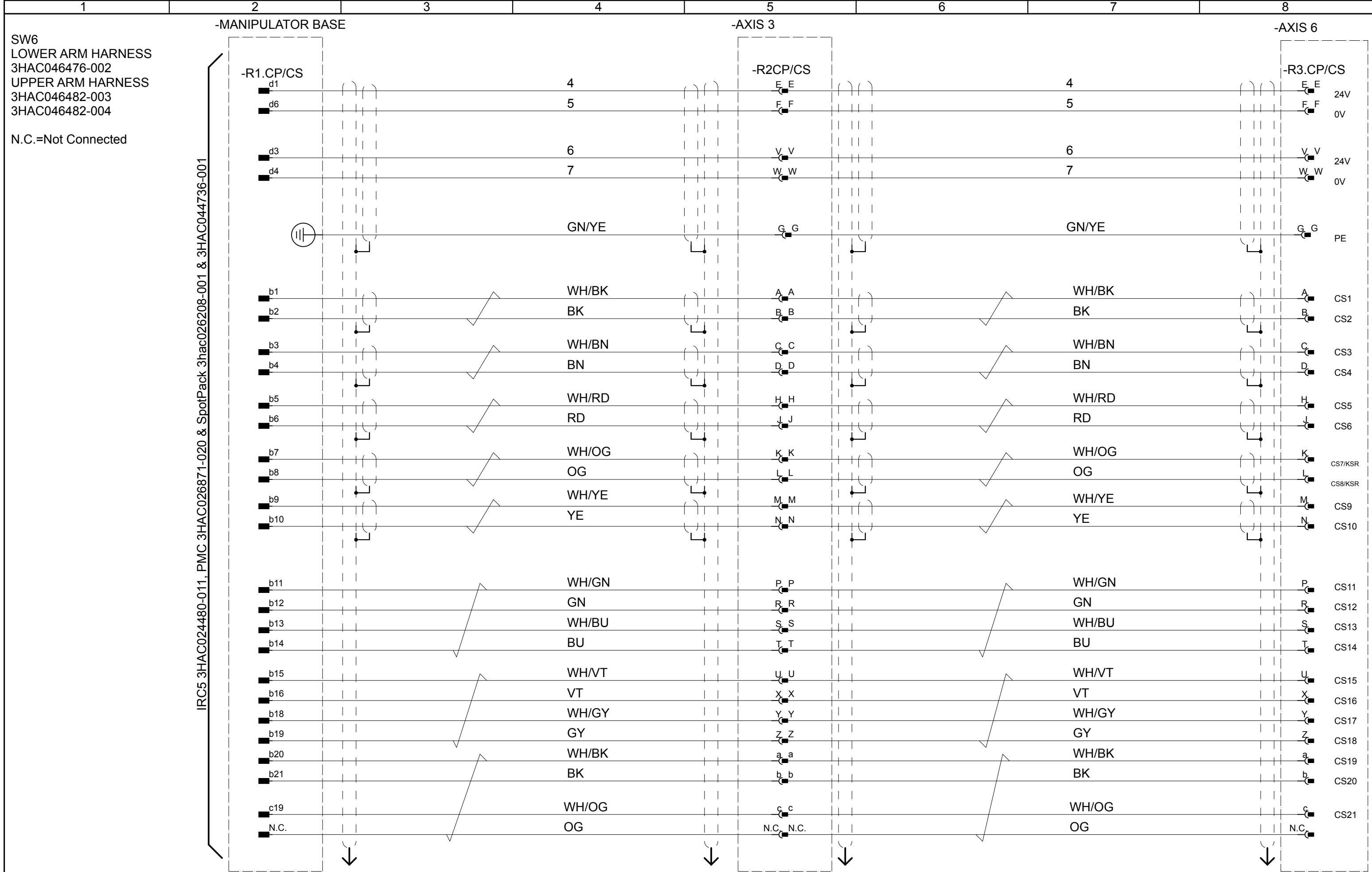
We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB



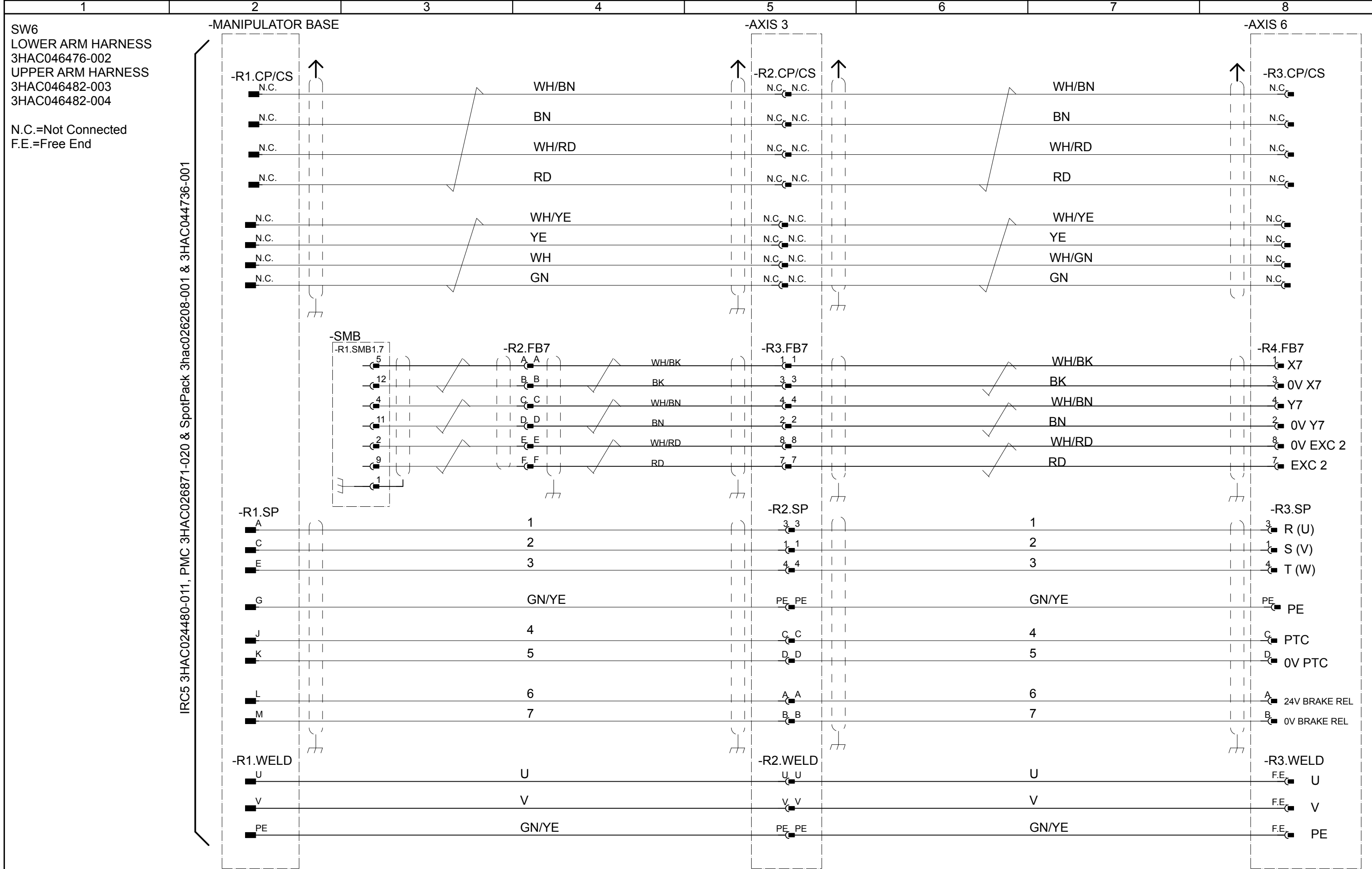
	1	2	3	4	5	6	7	8
<div style="display: flex; justify-content: space-between;"> SW6 LOWER ARM HARNESS 3HAC046478-001 UPPER ARM HARNESS 3HAC046484-001 3HAC046484-002 -MANIPULATOR BASE -AXIS 3 -AXIS 6 </div> <p>N.C.=Not Connected F.E.=Free End</p> <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); padding-right: 10px;">IRC5 3HAC024480-011, PMC 3HAC026871-020 & SpotPack 3hac026208-001 & 3HAC044736-001</div> </div>								
Latest revision: ECO 88650, WI 140679 Pg 3: Legend updated. Pg 56: Welding connectors added. Pg 101, 103, 105, 151, 154, 156: Welding cable added.			<div style="text-align: center;"> </div> <div style="font-size: small;">Lab/Office: DMRO SE PRIM</div>		IRB6700		Status: 2017-02-24	Plant: = DP
		PARAMULTI SW6			Approved	Location: + S		
Prepared by, date: EM 2017-02-17		Approved by, date: JN 2017-02-24		TYPE S		Document no.	Rev. Ind	Page105
						3HAC044246-002	03	Next +Se.AX Total 31

	1	2	3	4	5	6	7	8
<div style="display: flex; justify-content: space-between;"> SW6 LOWER ARM HARNESS 3HAC046478-001 UPPER ARM HARNESS 3HAC046484-001 3HAC046484-002 -MANIPULATOR BASE -AXIS 3 -AXIS 6 </div> <p>N.C.=Not Connected F.E.=Free End</p> <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); padding-right: 10px;">IRC5 3HAC024480-011, PMC 3HAC026871-020 & SpotPack 3hac026208-001 & 3HAC044736-001</div> </div>								
Latest revision: ECO 88650, WI 140679 Pg 3: Legend updated. Pg 56: Welding connectors added. Pg 101, 103, 105, 151, 154, 156: Welding cable added.			<div style="text-align: center;"> </div> <div style="font-size: small;"> Lab/Office: DMRO SE PRIM </div>		IRB6700		Status: 2017-02-24	Plant: = DP
		PARAMULTI SW6			Approved	Location: + S		
Prepared by, date: EM 2017-02-17		Approved by, date: JN 2017-02-24		TYPE S		Document no.	Rev. Ind	Page105
						3HAC044246-002	03	Next +Se.AX Total 31

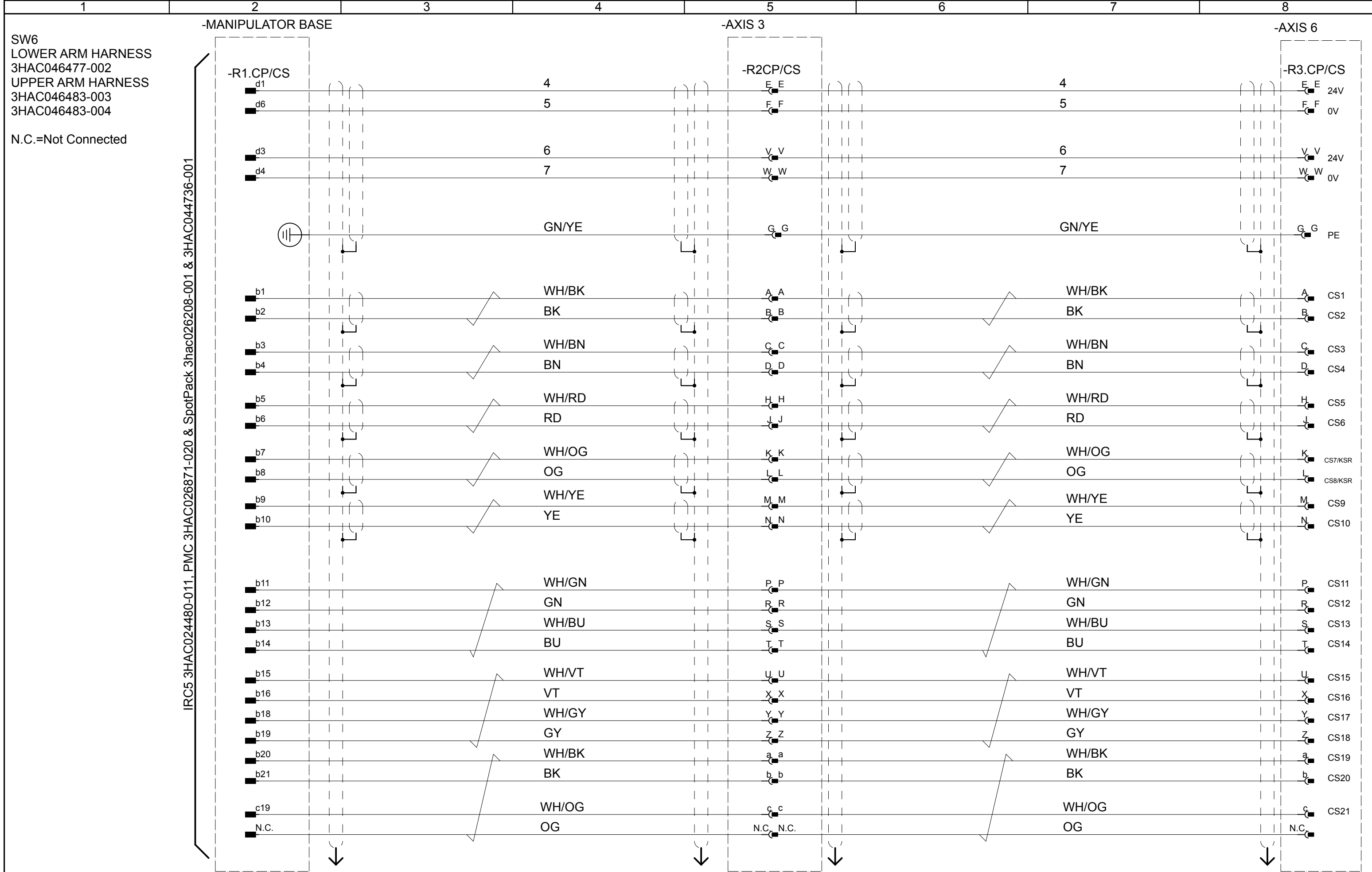
We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB



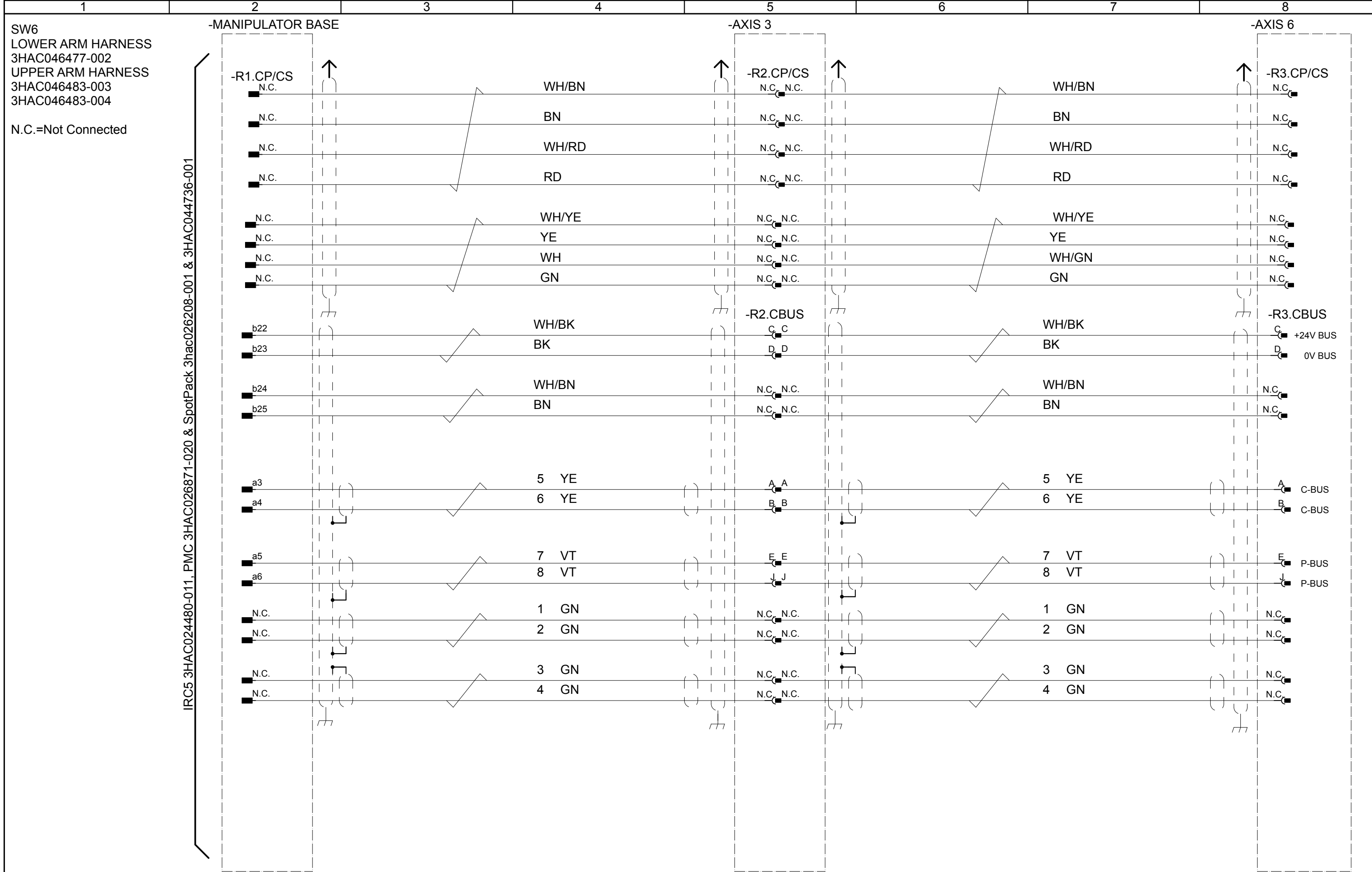
We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB



We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

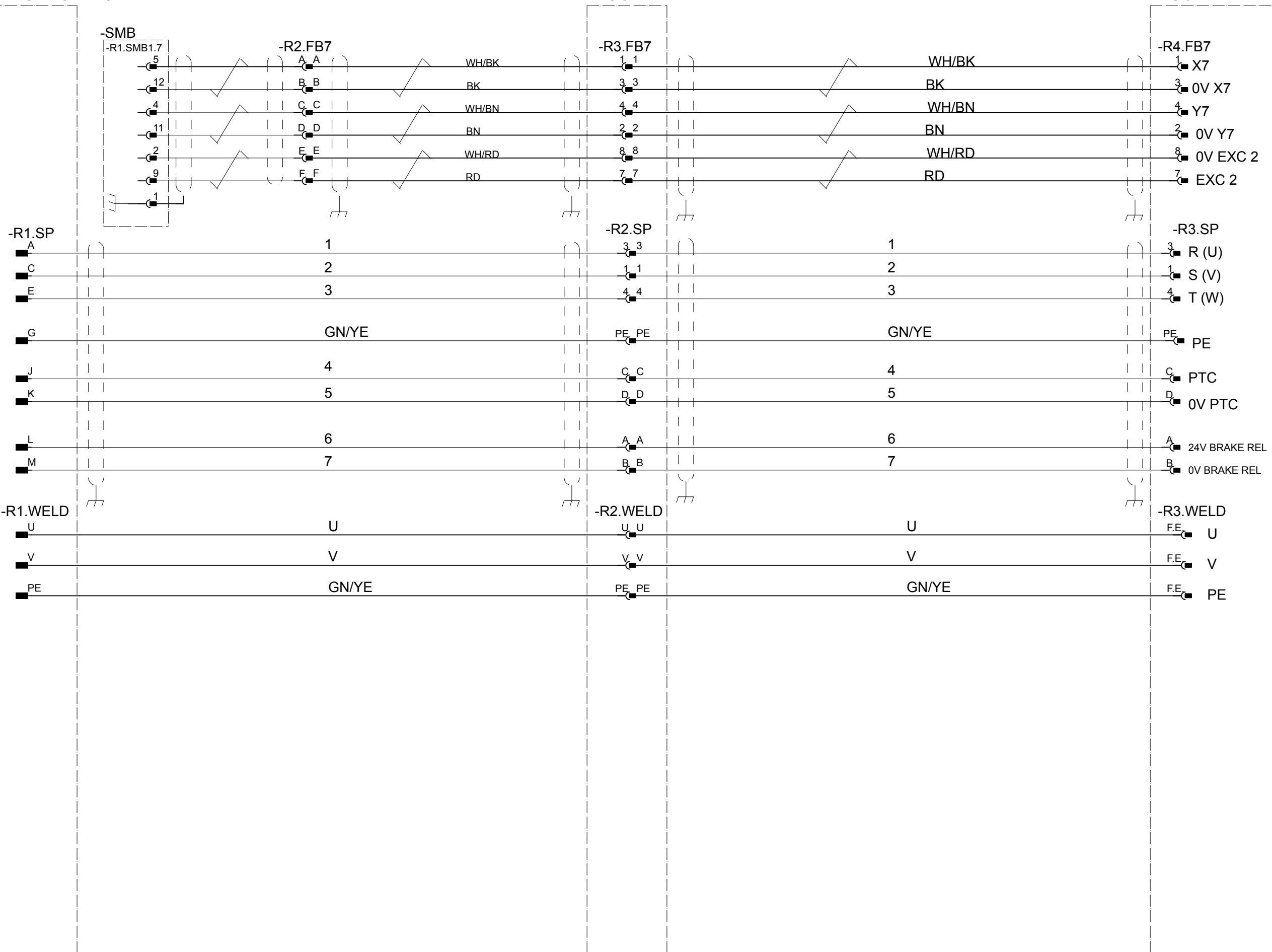


We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

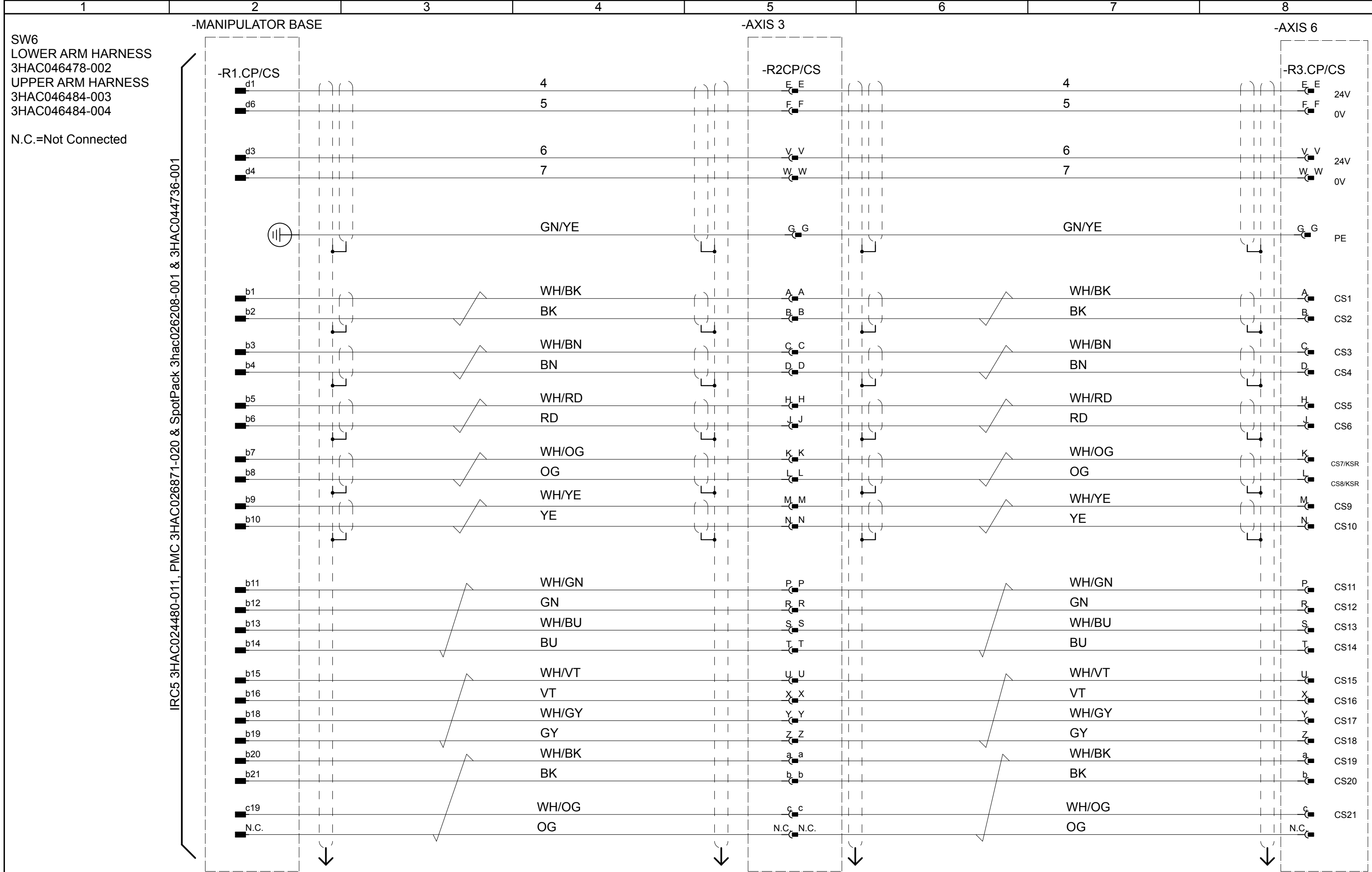


N.C.=Not Connected
F.E.=Free End

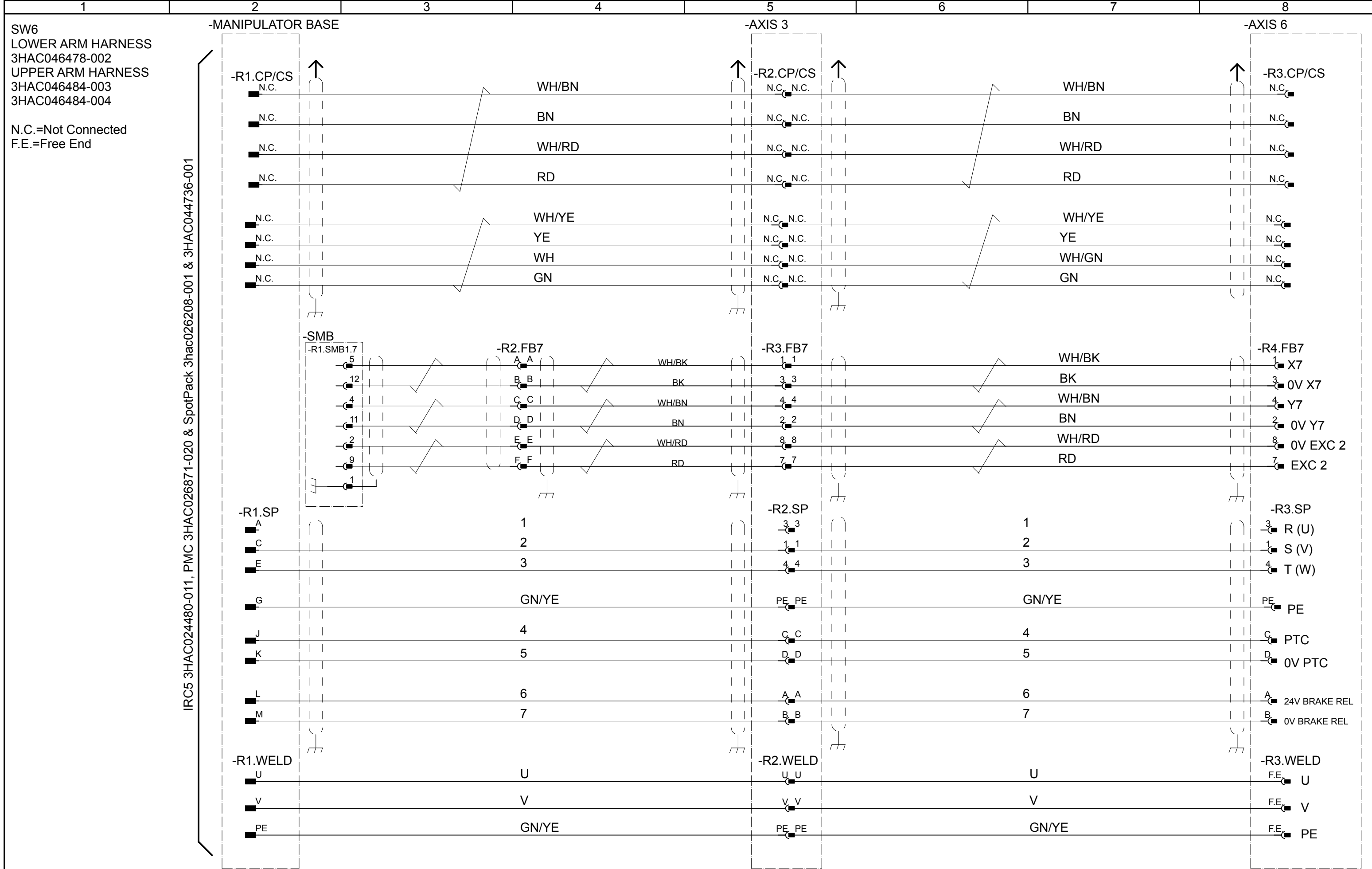
-MANIPULATOR BASE



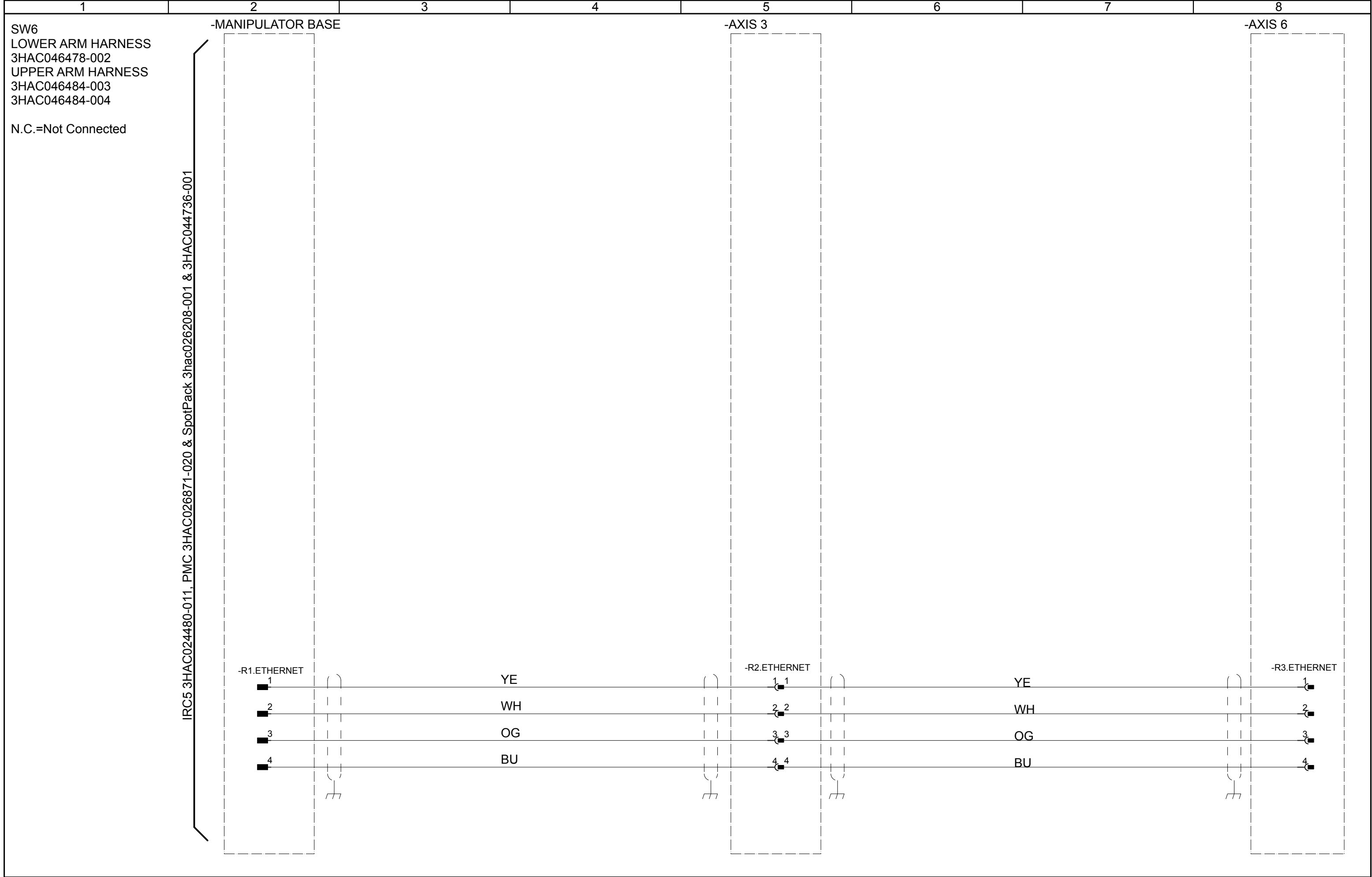
We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB



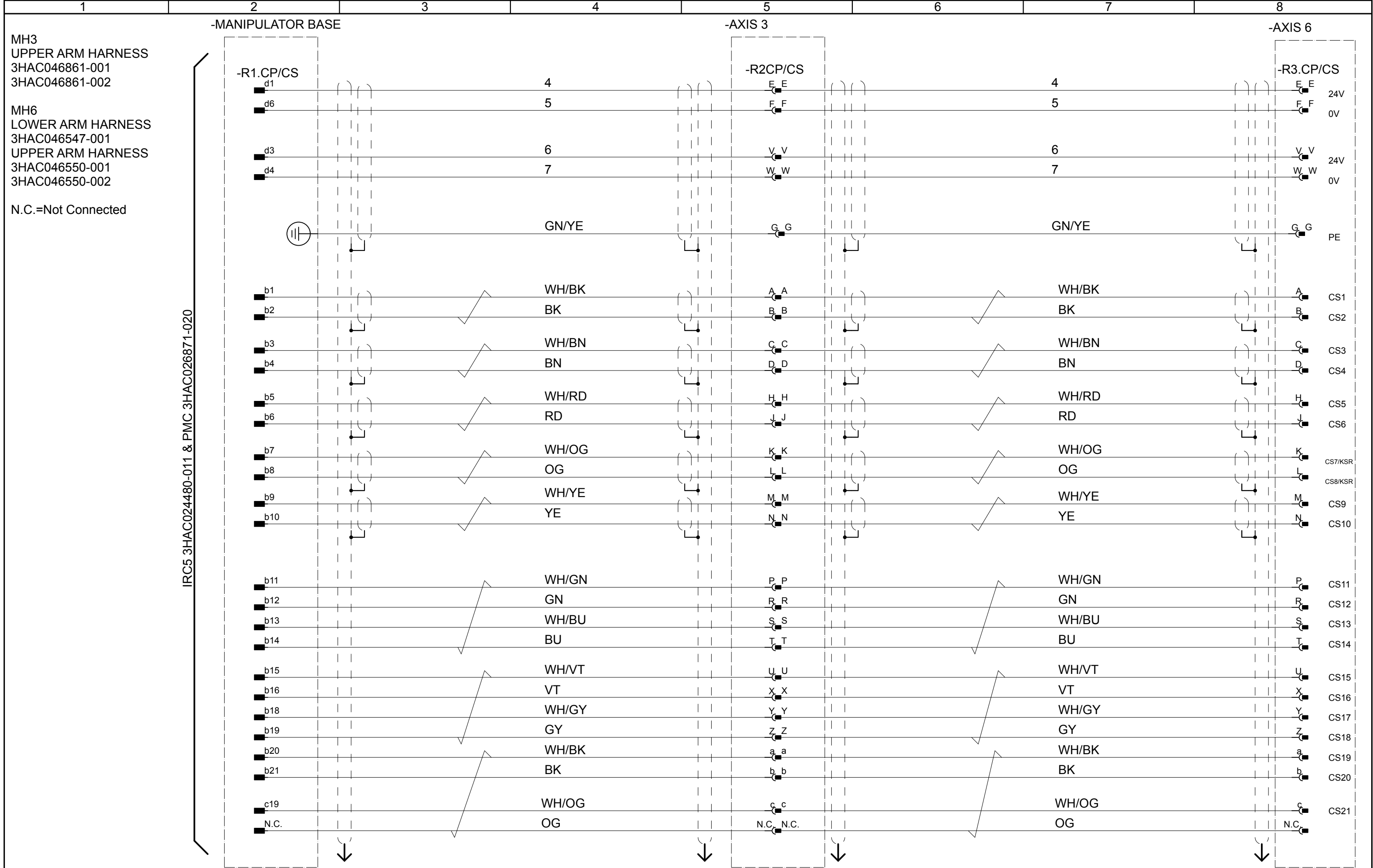
We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB



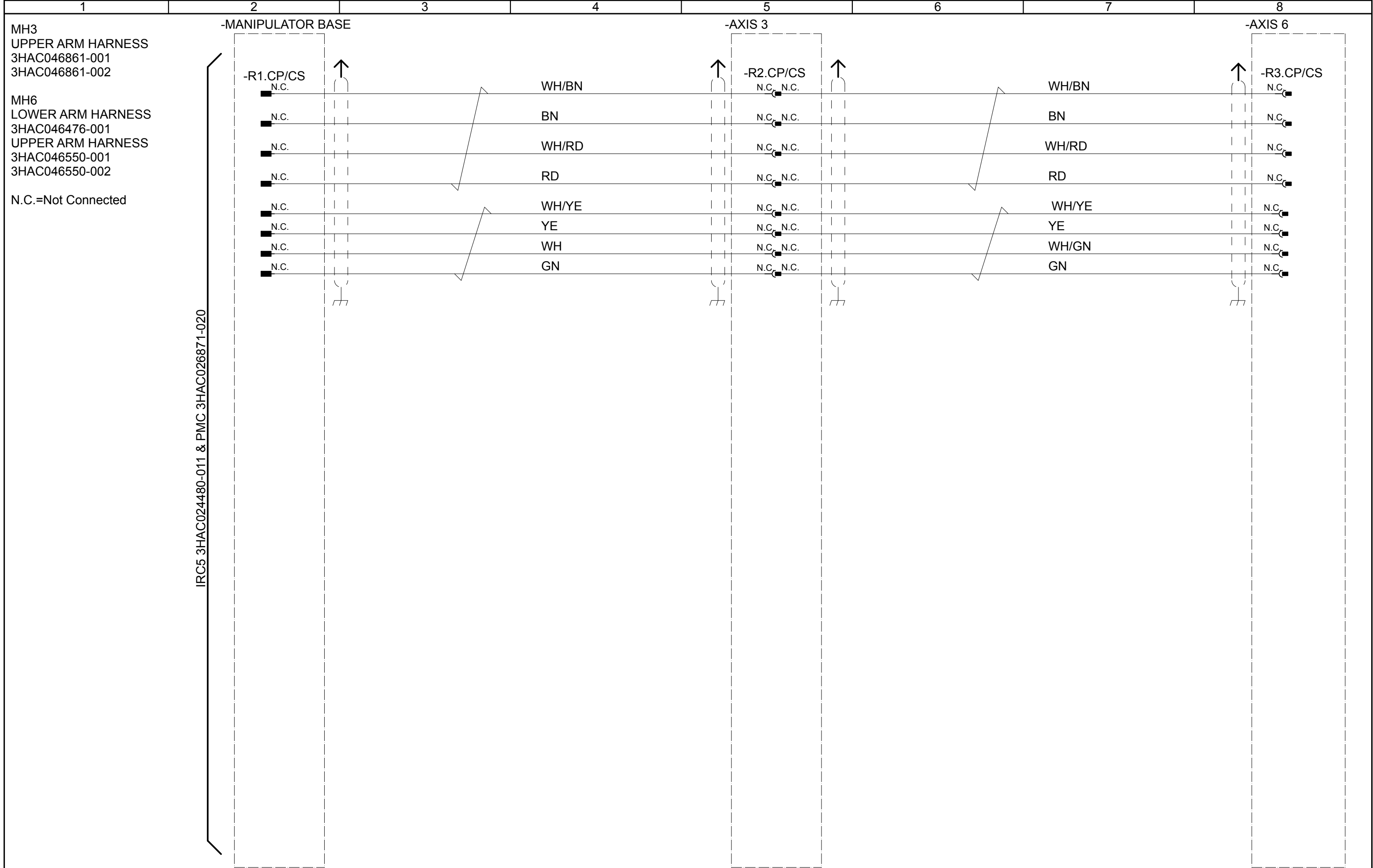
We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB



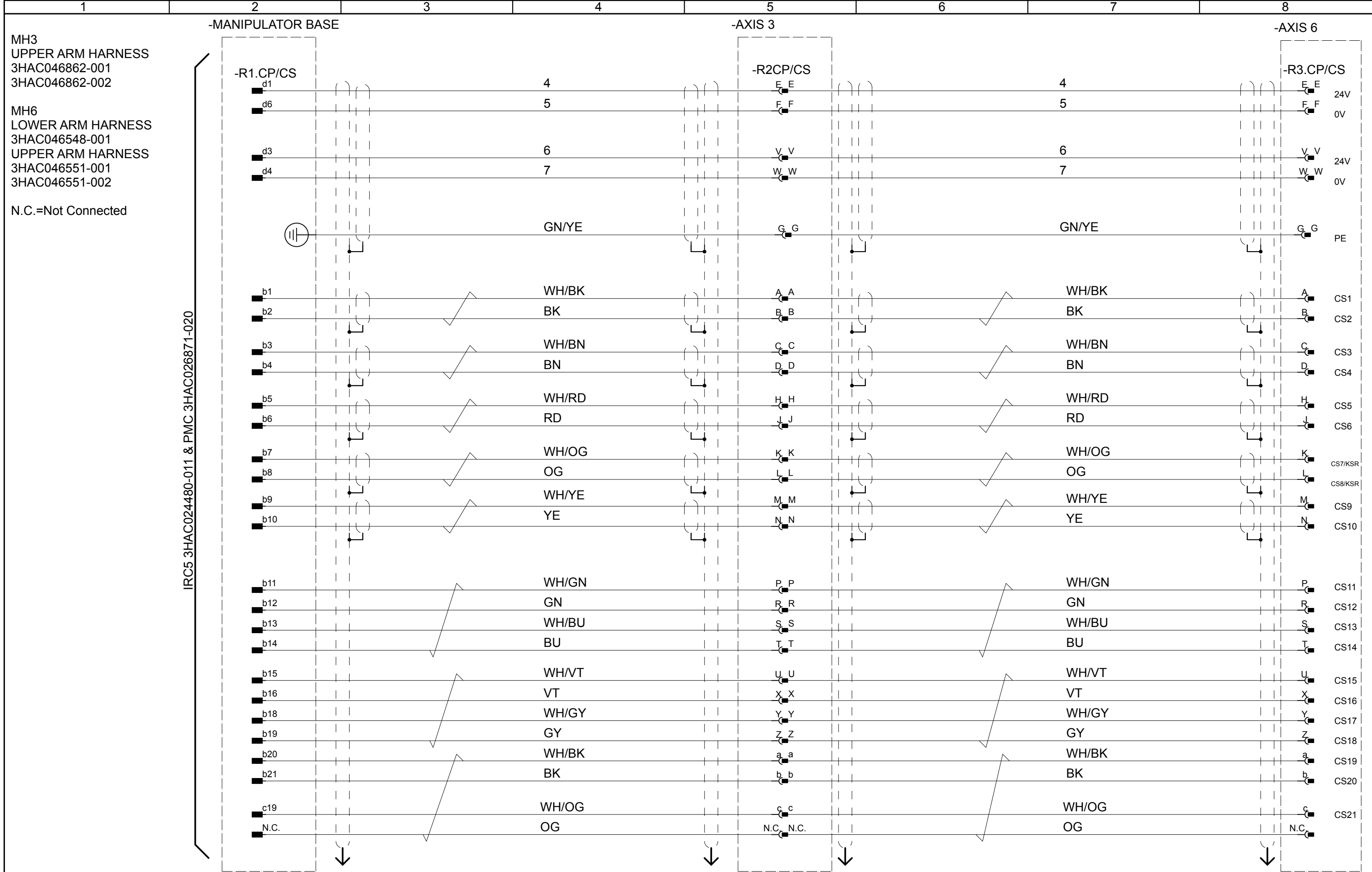
We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB



We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

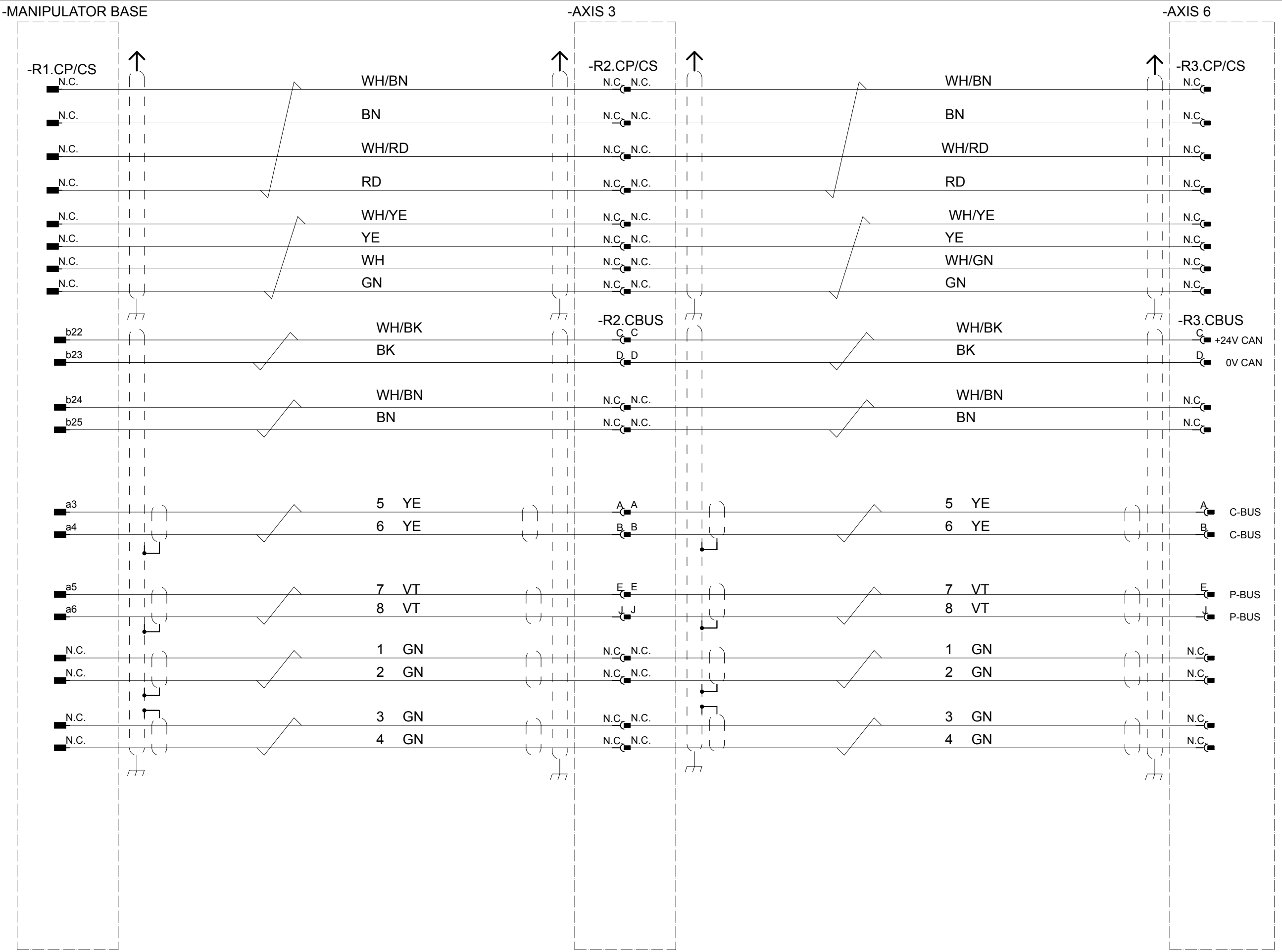


We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

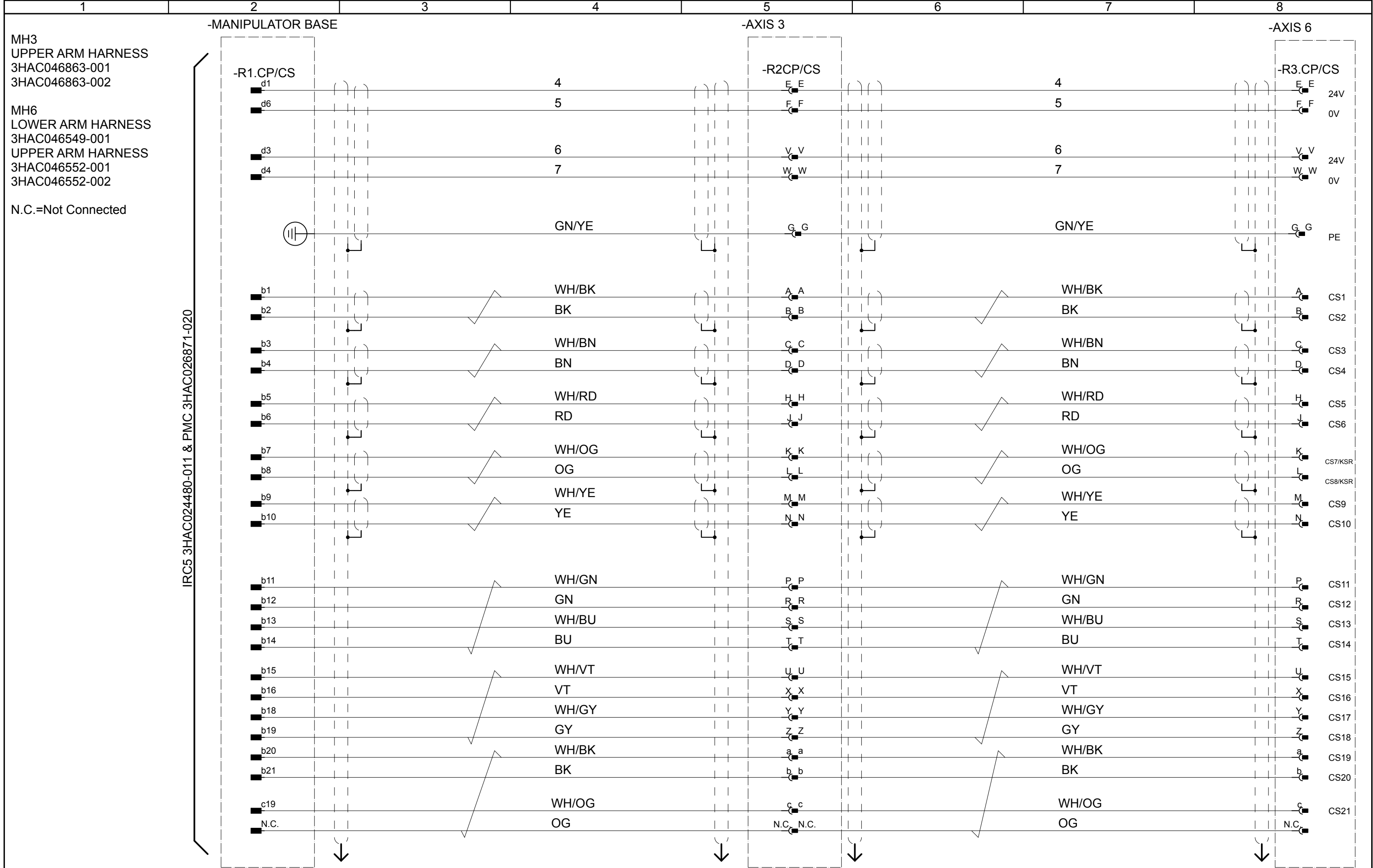


N.C.=Not Connected

IRC5 3HAC024480-011 & PMC 3HAC026871-020



We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

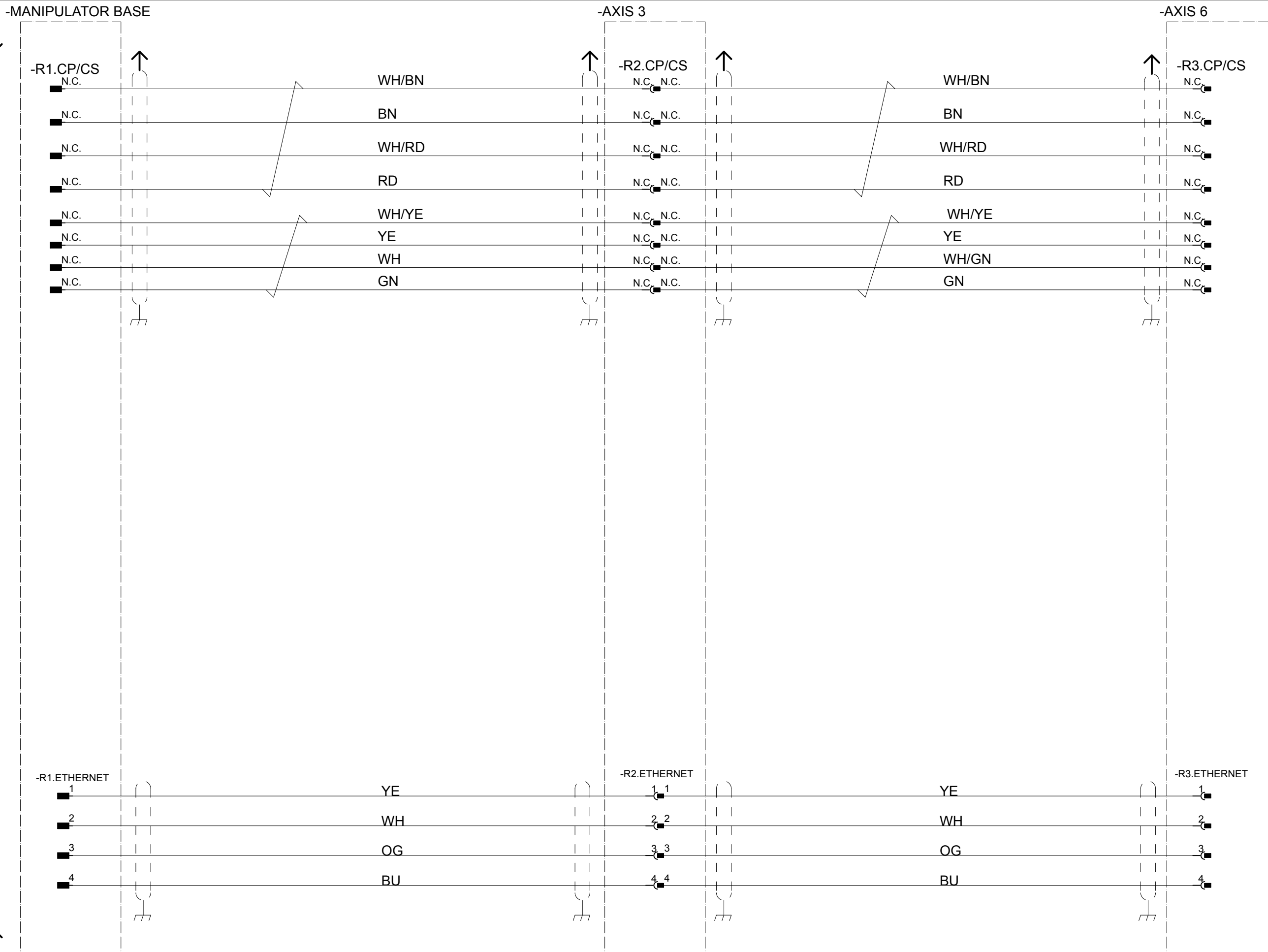


[illegible]

MH6
LOWER ARM HARNESS
3HAC046549-001
UPPER ARM HARNESS
3HAC046552-001
3HAC046552-002

N.C.=Not Connected

RC5 3HAC02480-011 & PMC 3HAC026871-020



Latest revision: ECO 88650, WI 140679
Pg 3: Legend updated.
Pg 56: Welding connectors added.
Pg 101, 103, 105, 151, 154, 156: Welding cable added.



Lab/Office:
DMRO SE
PRIM

IRB6700

PARAMULTI MH3 & 6

TYPE H

Status:	2017-02-24
---------	------------

Approved

Document no.

3HAC044246-002

Plant:	= DP
Location:	+ H
Sublocation:	+ AX3

Rev	Ind
-----	-----

03

Page 205

Next +PG/25
Total 31

We reserve all rights in this document and in the information contained therein.Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

