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ABB Engineering (Shanghai)
No.4528, Kangxin Highway, Kangqiao Town
Nanhui District, Shanghai, 201319
P.R.China

Latest revision:			Lab/Office:		Status: Approved	Plant: = Location: + Sublocation: +	Document no. 3HAC049406-003	Rev. Ind 04	Page 1 Next 2 Total 59
Prepared by, date: CNSHLIN8	Approved by, date:								

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Customer :

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 :

Latest revision:



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TITLE PAGE

Status:
Approved

Plant: =
Location: +
Sublocation: +

Document no.
3HAC049406-003

Rev. Ind Page 2
04 Next 3
Total 59

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Table of contents

ABB_table_of_contents

Plant	Location	Page	Page description	Page supplementary field	Date	Editor
		1	COPYRIGHT		4/1/2016	CNWILIU5
		2	TITLE PAGE		10/8/2014	CNYAWU2
		3	Table of contents:		3/23/2017	CNSHLIN8
		4	Table of contents:		3/23/2017	CNSHLIN8
		5	REVISION INFORMATION		3/21/2017	CNSHLIN8
		6	Front View		3/31/2016	CNWILIU5
		7	Top View		3/31/2016	CNWILIU5
		8	Side View		3/31/2016	CNWILIU5
		9	BLOCK DIAGRAM		3/30/2016	CNYIHU2
		10	MAIN POWER INPUT		3/23/2017	CNSHLIN8
		11	POWER SUPPLY DSQC 661 AND 662		3/23/2017	CNSHLIN8
		12	SAFETY INPUT & OUTPUT		3/23/2017	CNSHLIN8
		13.a	RUN CHAIN OPERATING HW MODE SELECTOR, 2 MODES		9/8/2016	CNSHLIN8
		13.b	RUN CHAIN OPERATING SW MODE SELECTOR, 2 MODES		9/9/2016	CNSHLIN8
		14	PROTECTIVE STOP		3/28/2016	CNYIHU2
		15.a	POWER UNIT		3/23/2017	CNSHLIN8
		15.b	POWER UNIT SERVO DISCONNECTOR, Option-Safemove		3/23/2017	CNSHLIN8
		16	CONTROL PANEL		3/21/2017	CNSHLIN8
		17	FPU, FLEXPENDANT		3/21/2017	CNSHLIN8
		18	Main Computer/AnybusCC/RS232 Exp./Interface Board/		1/18/2017	CNSHLIN8
		19	MAIN COMPUTER A31 DSQC1018 / DSQC1024		1/18/2017	CNSHLIN8
		20	MAIN COMPUTER A31 DSQC1018 / DSQC1024; A32 DSQC1003		1/18/2017	CNSHLIN8
		21	FIELD BUS ADAPTER A32:		10/8/2014	CNYAWU2
		22	DEVICENET A31.2 DSQC1006 / PROFIBUS A31.3 DSQC1005		9/8/2016	CNSHLIN8
		23	DIGITAL I/O UNIT INPUT		9/8/2016	CNSHLIN8
		24	DIGITAL I/O UNIT OUTPUT		12/26/2016	CNSHLIN8
		25	DIGITAL PART OF COMBI I/O AND		10/8/2014	CNYAWU2
		26	DIGITAL I/O UNIT DSQC652		12/26/2016	CNSHLIN8
		27	COMBI I/O UNIT DSQC651		10/8/2014	CNYAWU2
		28	RELAY I/O UNIT DSQC653		10/8/2014	CNYAWU2

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Table of contents

ABB_table_of_contents

Plant	Location	Page	Page description	Page supplementary field	Date	Editor
		29	RELAY I/O UNIT DSQC653		10/8/2014	CNYAWU2
		30	REMOTE I/O UNIT DSQC350A		10/8/2014	CNYAWU2
		31	ANALOGUE I/O UNIT DSQC355B		10/8/2014	CNYAWU2
		32	ENCODER UNIT DSQC377		3/30/2016	CNYIHU2
		33	CC-LINK		10/8/2014	CNYAWU2
		34	VISION, INTEGRATED CAMERAS		10/8/2014	CNYAWU2
		35	ETHERNET SWITCH A64/CAMERA		3/21/2017	CNSHLIN8
		36	AXIS COMPUTER UNIT		3/21/2017	CNSHLIN8
		37	AXIS COMPUTER UNIT		3/23/2017	CNSHLIN8
		38	RECTIFIER AND BLEEDER		9/8/2016	CNSHLIN8
		39	FAN UNIT		10/8/2014	CNYAWU2
		40	REMOTE SERVICE BOX DSQC680		3/21/2017	CNSHLIN8
		41	SERVO DRIVE SYSTEM IRB 120		9/8/2016	CNSHLIN8
		42	CONTROL CABLE IRB 120		3/23/2017	CNSHLIN8
		42.a	CUSTOMER POWER/SIGNAL IRB 120		3/23/2017	CNSHLIN8
		43	SERVO DRIVE SYSTEM IRB 140		10/8/2014	CNYAWU2
		44	CONTROL CABLE IRB 140		3/23/2017	CNSHLIN8
		45	SERVO DRIVE SYSTEM IRB 360		10/8/2014	CNYAWU2
		46	CONTROL CABLE IRB 360		3/23/2017	CNSHLIN8
		47	SERVO DRIVE SYSTEM IRB 1200		3/28/2016	CNYIHU2
		48	CONTROL CABLE IRB 1200		3/23/2017	CNSHLIN8
		48.a	CUSTOMER POWER/SIGNAL IRB 1200		3/23/2017	CNSHLIN8
		49	SERVO DRIVE SYSTEM IRB 1410, 1600, 260		9/8/2016	CNSHLIN8
		50	CONTROL CABLE IRB 1410, 1600, 260		3/23/2017	CNSHLIN8
		51	CUSTOMER POWER/SIGNAL IRB 1410		3/23/2017	CNSHLIN8
		52	CUSTOMER POWER/SIGNAL IRB 1600		3/22/2017	CNSHLIN8
		53	SERVO DRIVE SYSTEM IRB 910		3/23/2017	CNSHLIN8
		54	CONTROL CABLE IRB 910		3/23/2017	CNSHLIN8
		55	CUSTOMER POWER/SIGNAL IRB 910		3/23/2017	CNSHLIN8

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- Rev 00 2014 10
- Initial Revision
- Rev 01 2016 02
- Update for NGAC SafeMove
- Rev 02 2016 09
- XS16 updated to 4pin
- S21.1 pin number updated
- Rev 03 2017 01
- Update CP/CS for IRB120 IRB1200 IRB1600
- Remove output terminals of DSQC652 and mark two wires : input 24VDC and 0V
- Update Main computer from DSQC1018 to DSQC1024
- Rev 04 2017 03
- Add CP/CS for IRB910 IRB1410
- Add floor cable for IRB910

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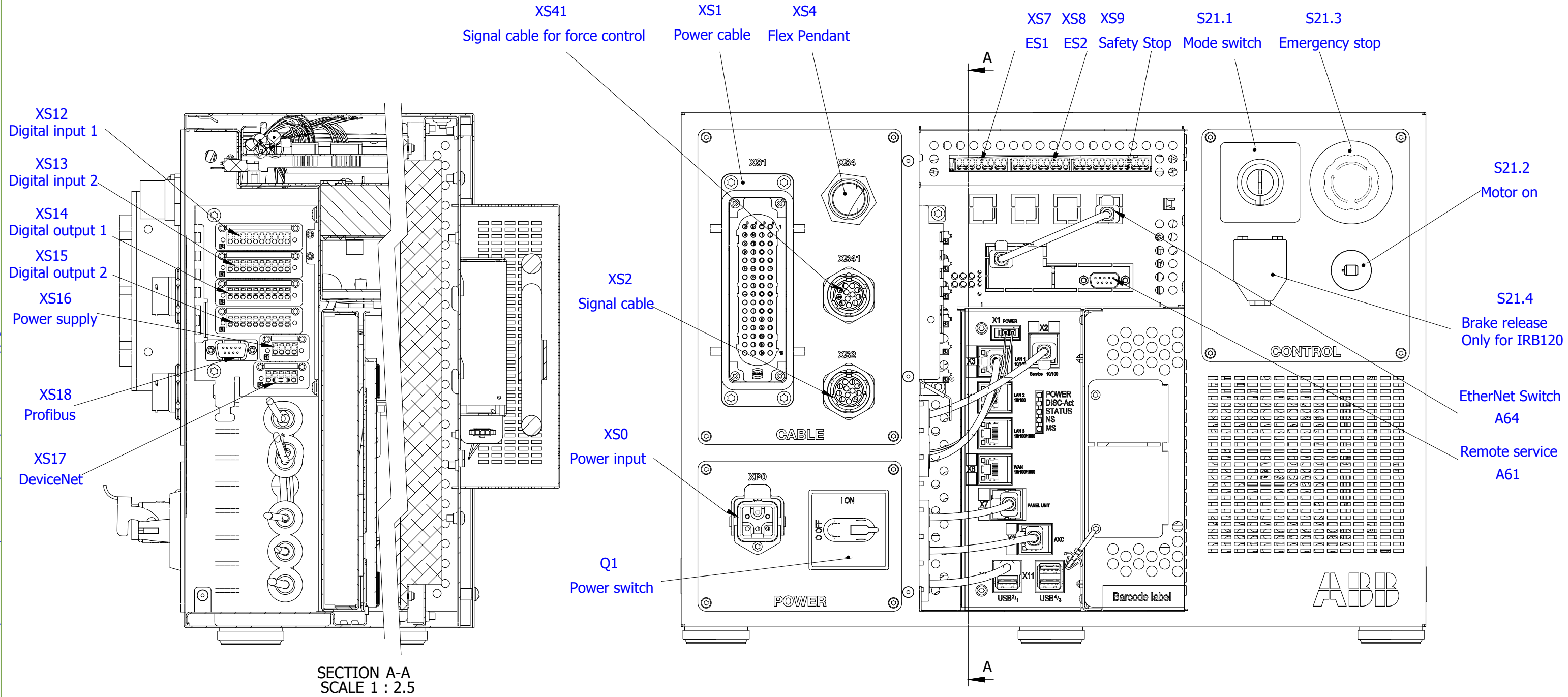


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Status: Approved	Plant: = Location: + Sublocation: +	Rev. Ind 04	Page 5 Next 6 Total 59
Document no. 3HAC049406-003			

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Front View

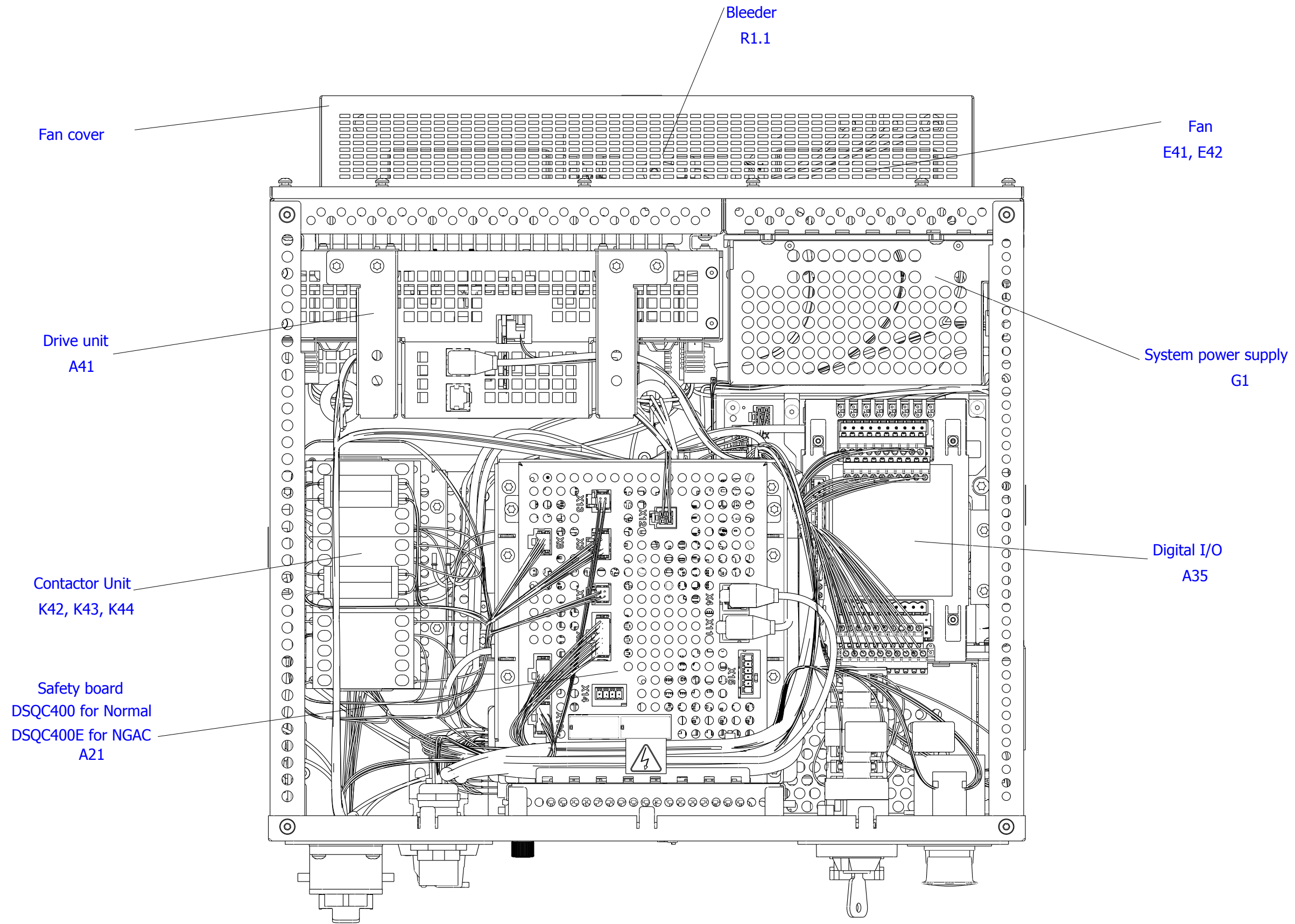
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Location: +
Sublocation: +

Document no. 3HAC049406-003

Rev. Ind 04 Page 6
Next 7
Total 59

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Top View

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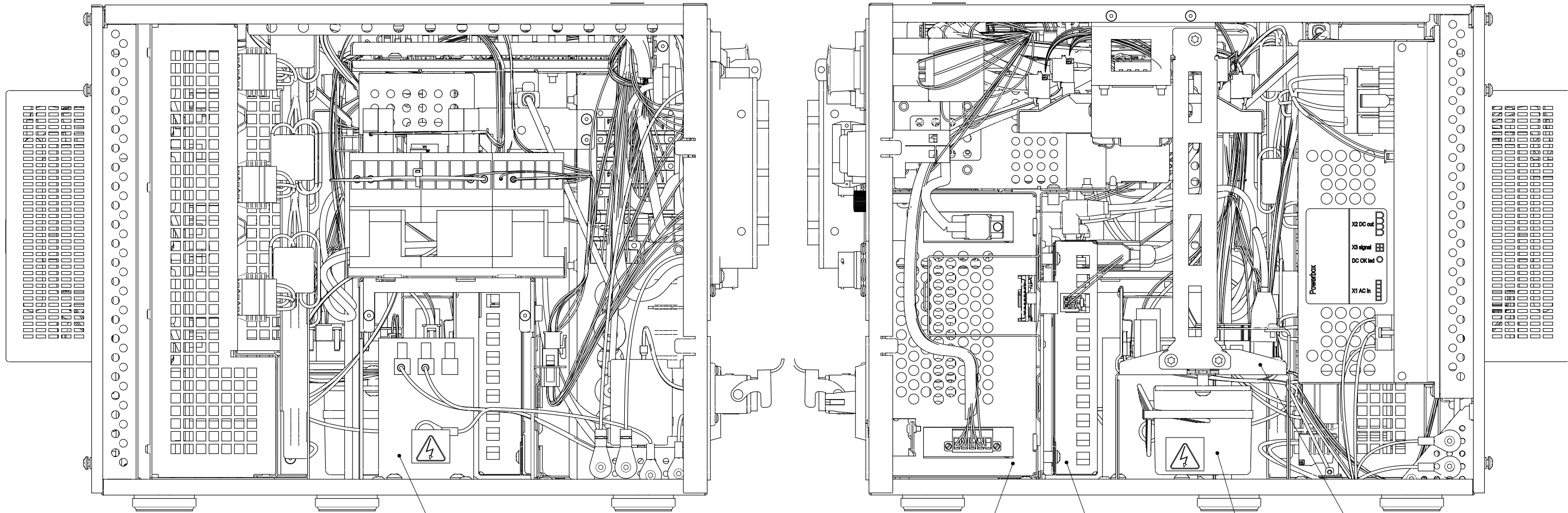
Approved by, date:

Document no.
3HAC049406-003

Rev. Ind Page 7
04 Next 8
Total 59

Leftside View

Rightside View



Filter
Z1

Main computer Axis computer Ultra cap bank Power distribution
A31 A42 G3 G2

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Side View

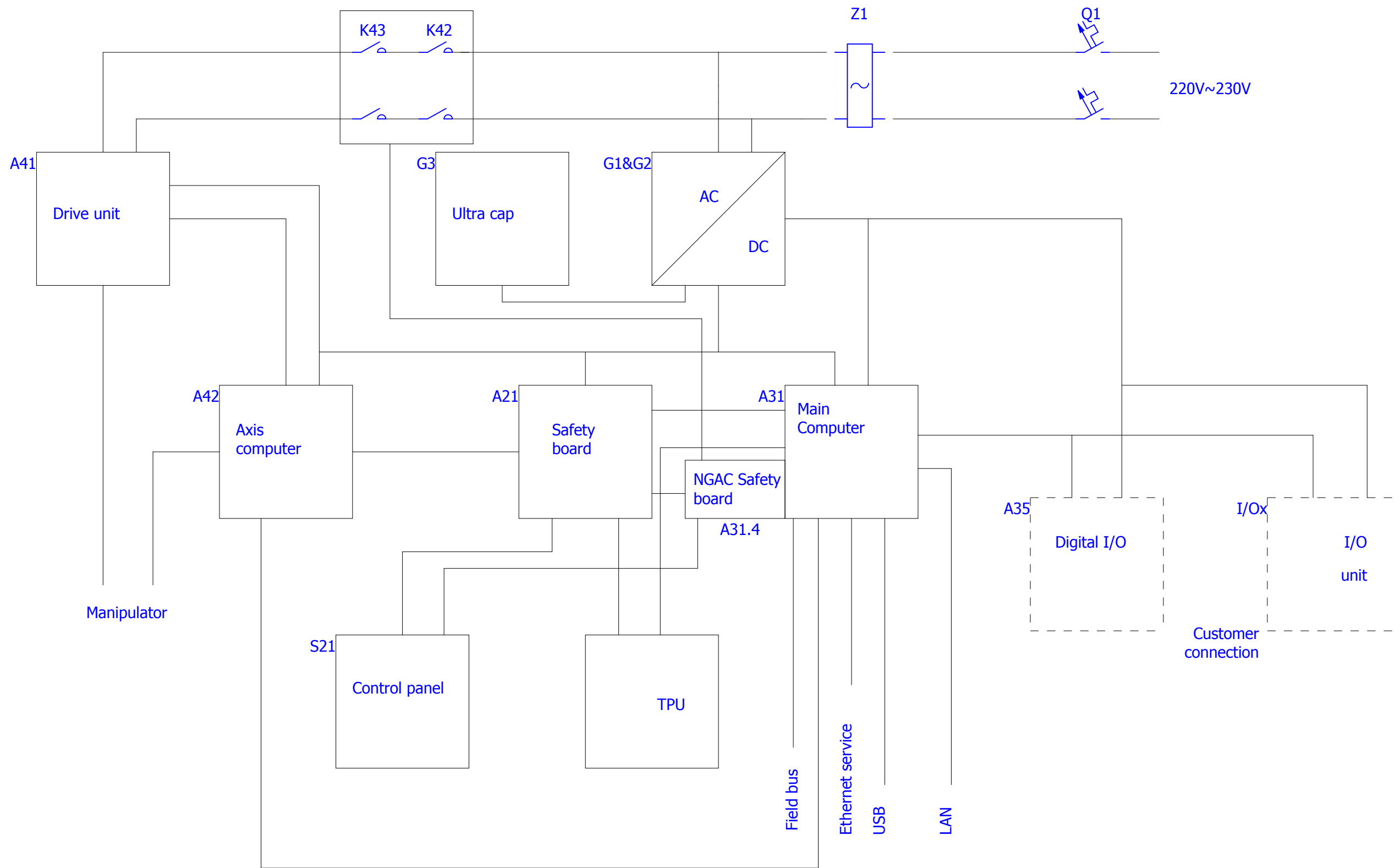
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Approved

Plant: =
Location: +
Sublocation: +

Document no.
3HAC049406-003

Rev. Ind Page 8
04 Next 9
Total 59

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BLOCK DIAGRAM

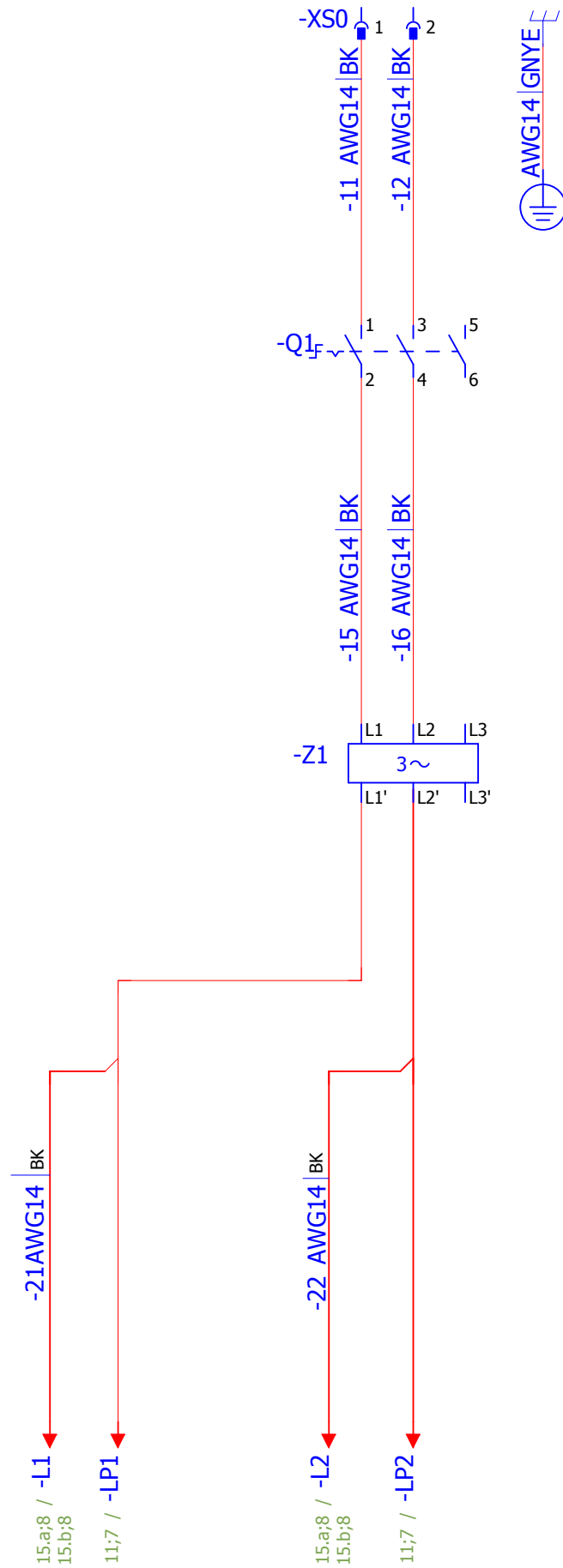
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Plant: =
Location: +
Sublocation: +

Document no.
3HAC049406-003

Rev. Ind Page 9
04 Next 10
Total 59

Prepared by, date: CNSHLIN8 Approved by, date:



Wire No.	Single phase
11	P
12	N
15	P
16	N
21	P
22	N

Latest revision:

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Lab/Office:

MAIN POWER INPUT

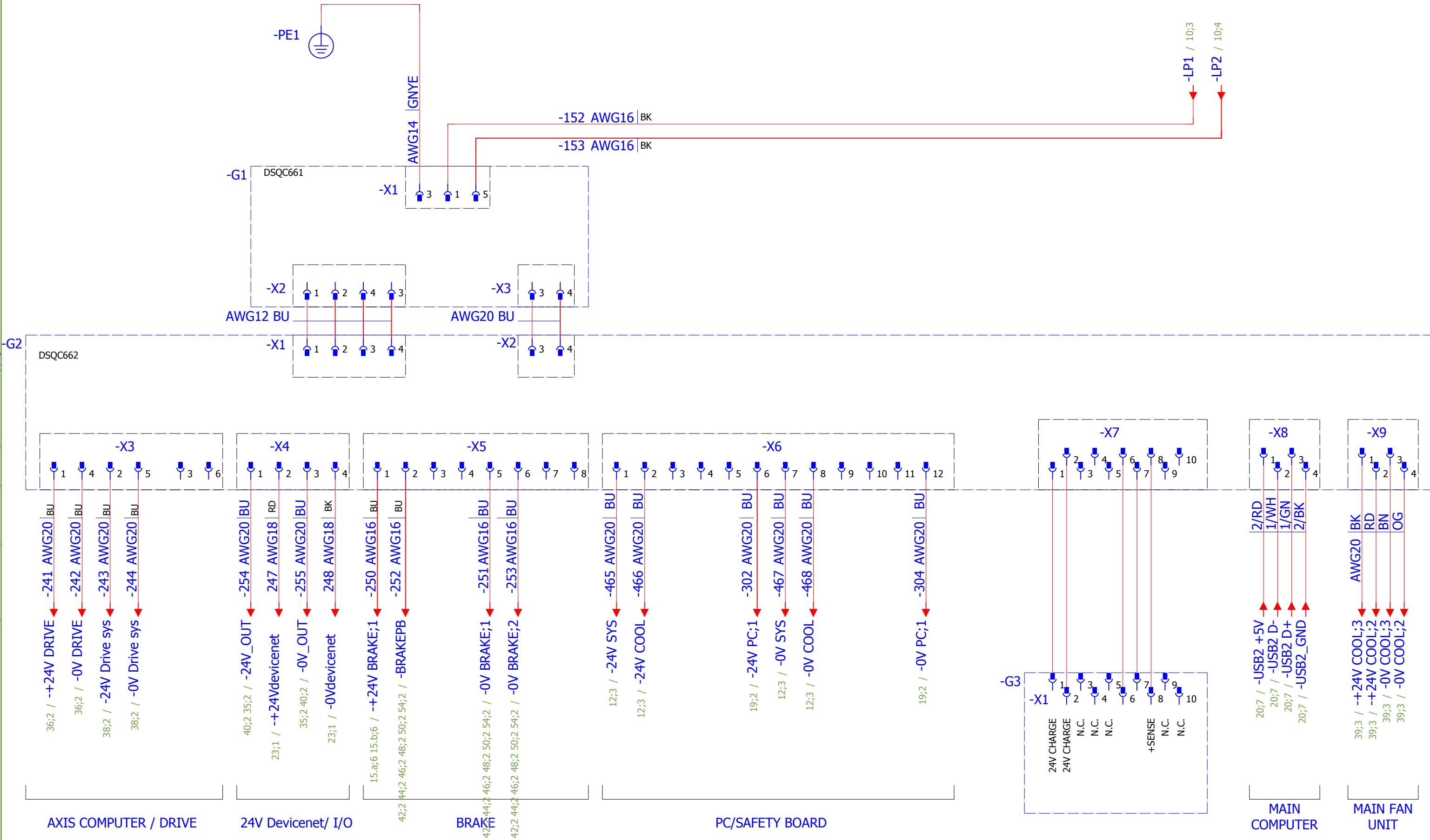
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Document no.
3HAC049406-003

Rev. Ind Page 10
04 Next 11
Total 59

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POWER SUPPLY DSQC 661 AND 662

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Sublocation: +

Document no.

3HAC049406-003

Rev. Ind

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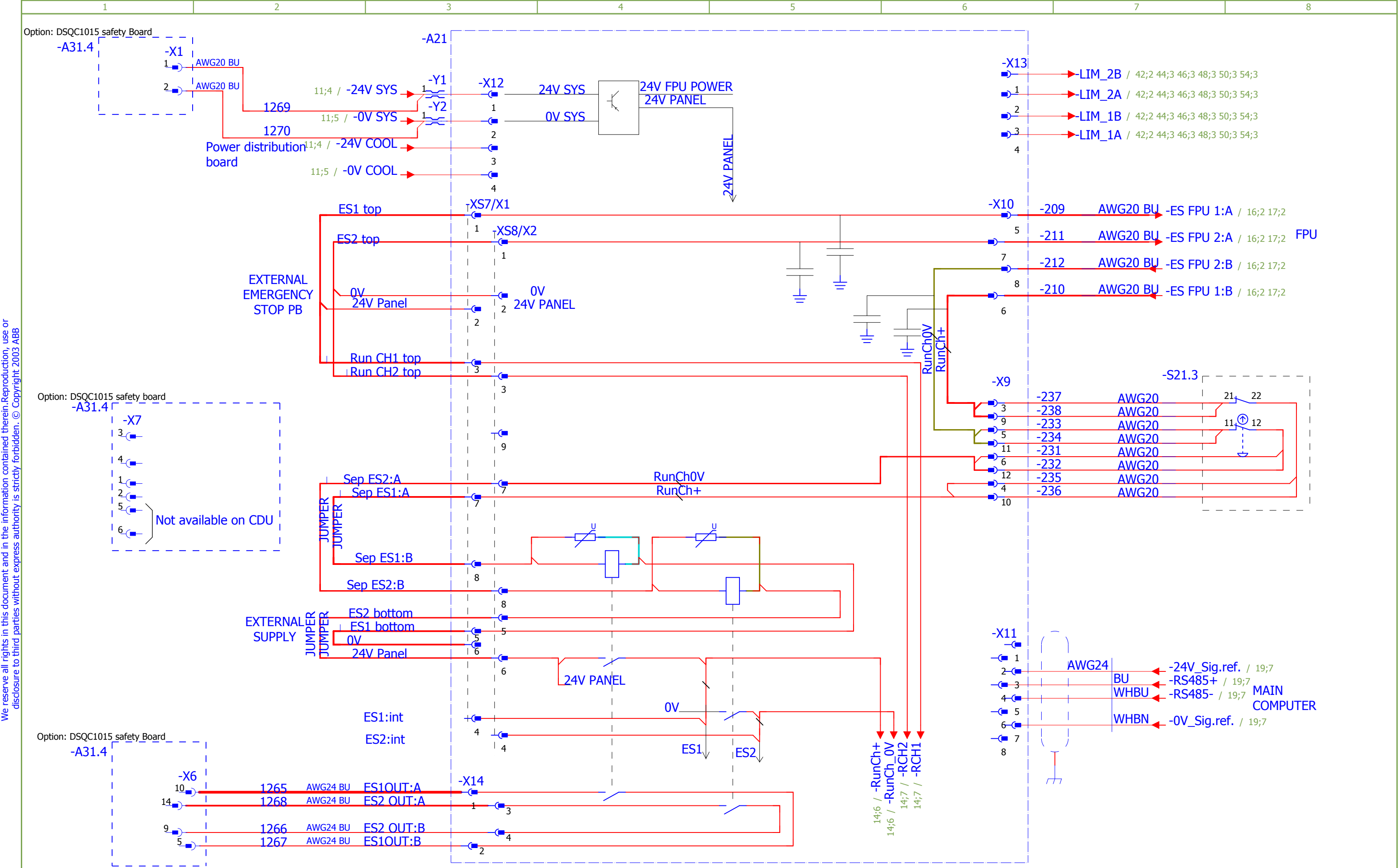
Page 11

Next 12


Total 59

Prepared by, date: CNSHLIN8

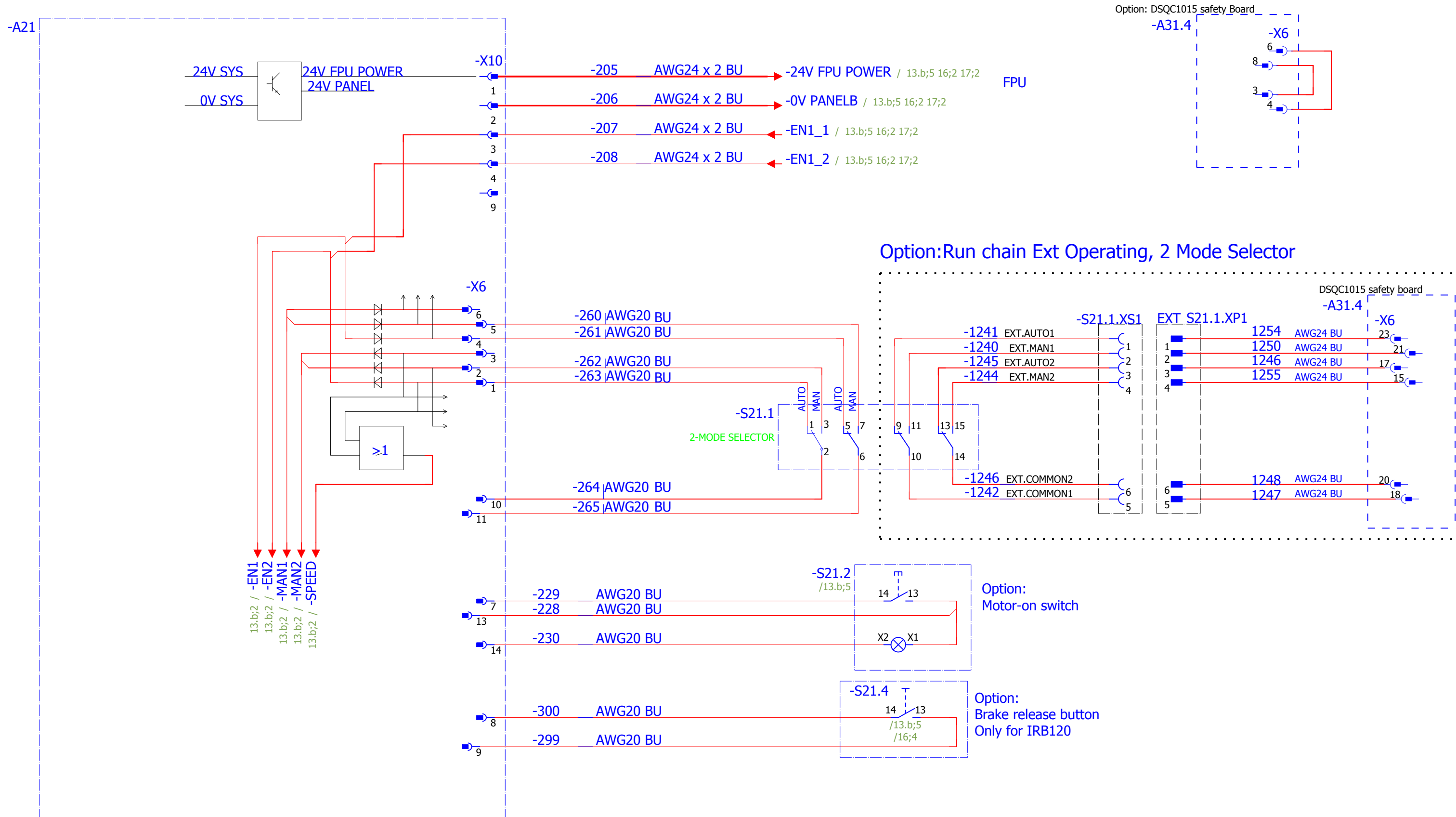
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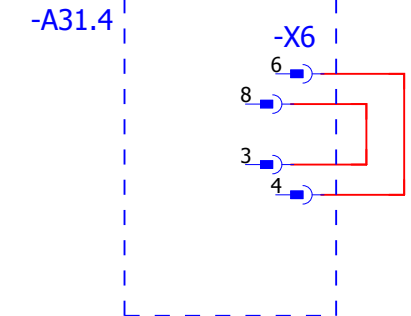
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			SAFETY INPUT & OUTPUT			Approved	Location:
Prepared by, date: CNSHLIN8	Approved by, date:				Document no.	Rev. Ind	Page 12
					3HAC049406-003	04	Next 13.a Total 59

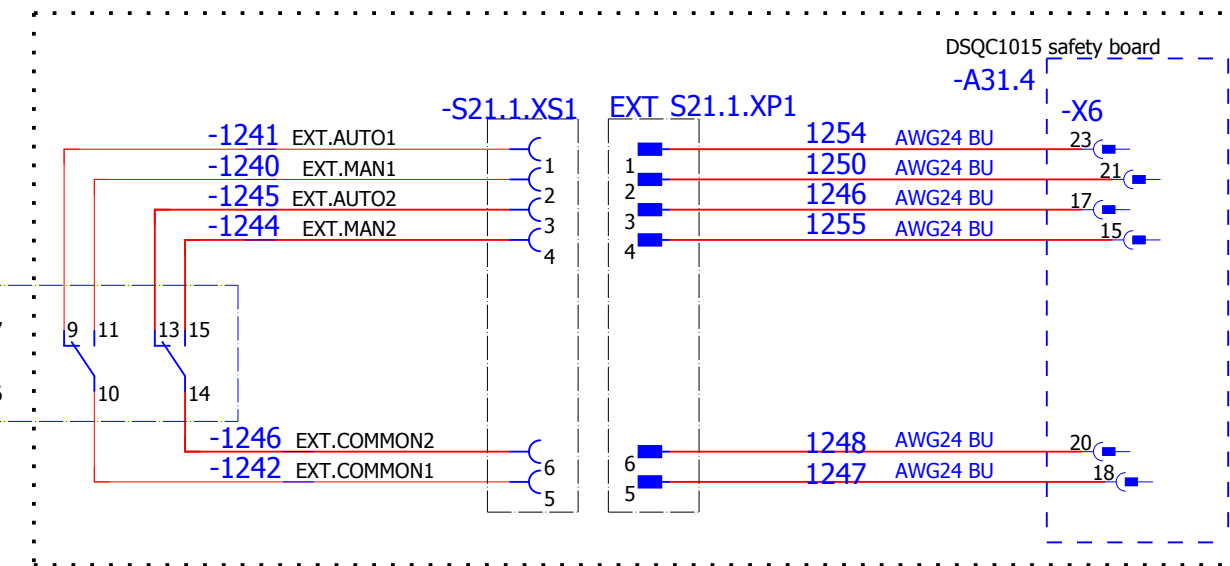
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Option: DSQC1015 safety Board



Option: Run chain Ext Operating, 2 Mode Selector



Option: Motor-on switch

Option: Brake release button Only for IRB120

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ABB Lab/Office:

RUN CHAIN OPERATING HW MODE SELECTOR, 2 MODES

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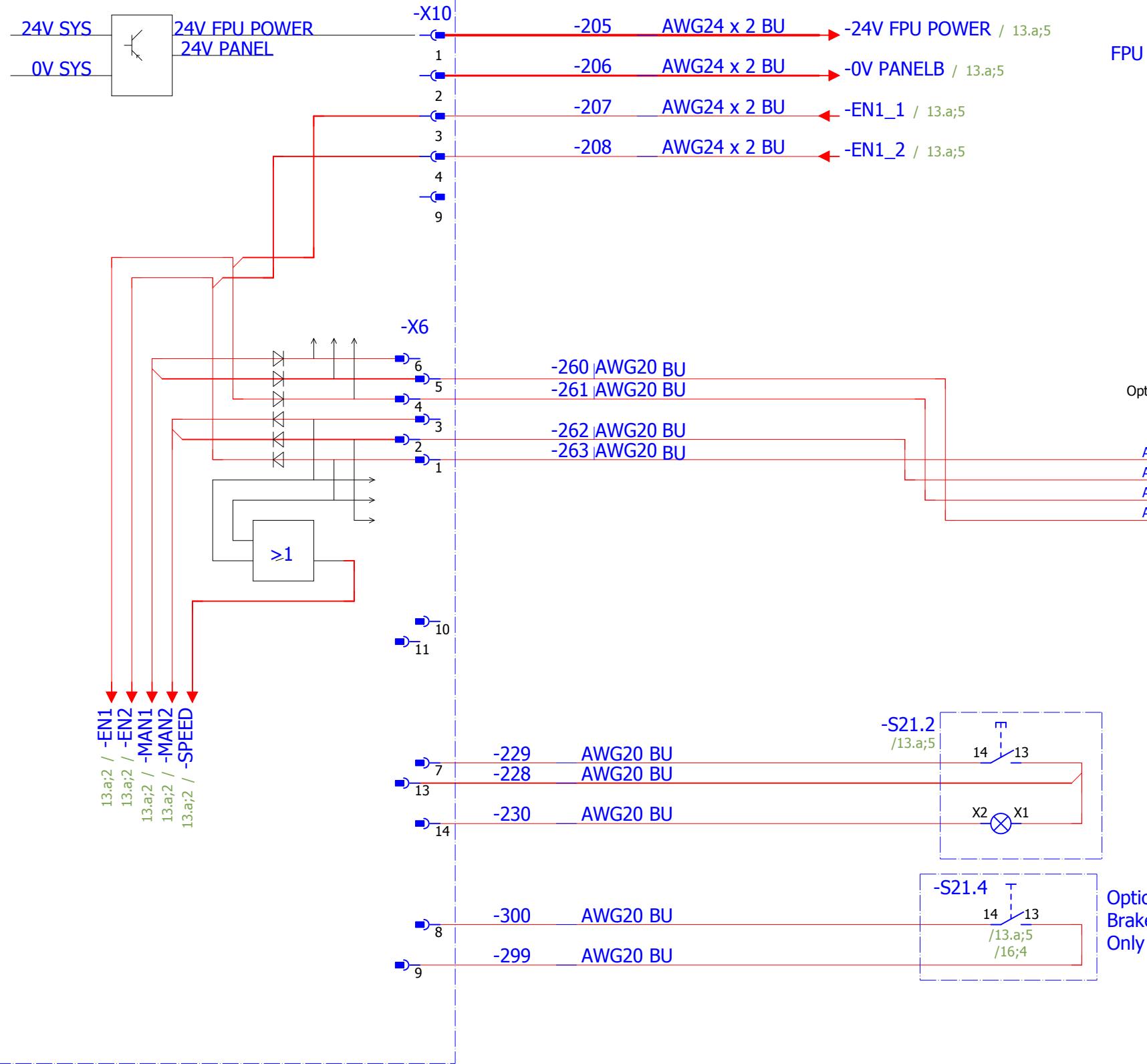
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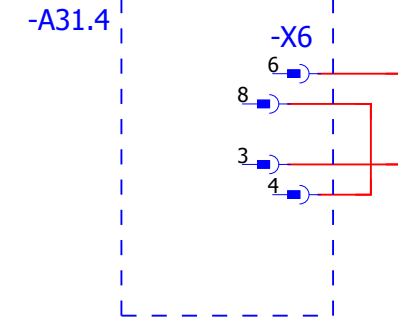
Document no. 3HAC049406-003
Rev. Ind 04
Page 13.a
Next 13.b
Total 59

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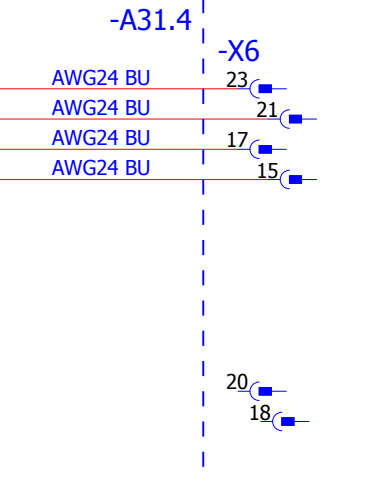
-A21



Option: DSQC1015 safety Board



Option: DSQC1015 safety board



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RUN CHAIN OPERATING SW MODE SELECTOR, 2 MODES

Status:

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Plant: =
Location: +
Sublocation: +

Document no.

3HAC049406-003

Rev. Ind

04

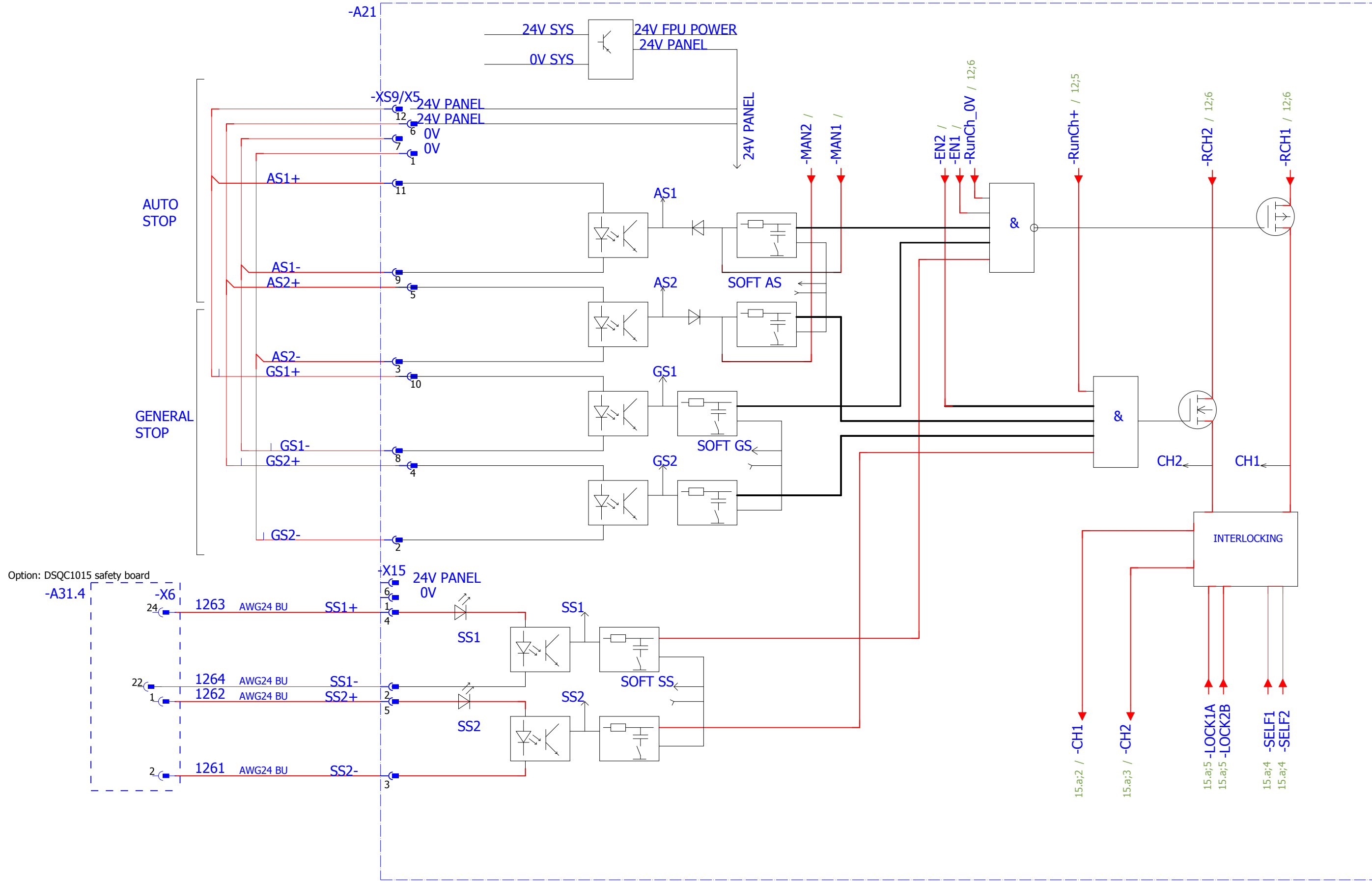
Page 13.b

Next 14
Total 59

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PROTECTIVE STOP

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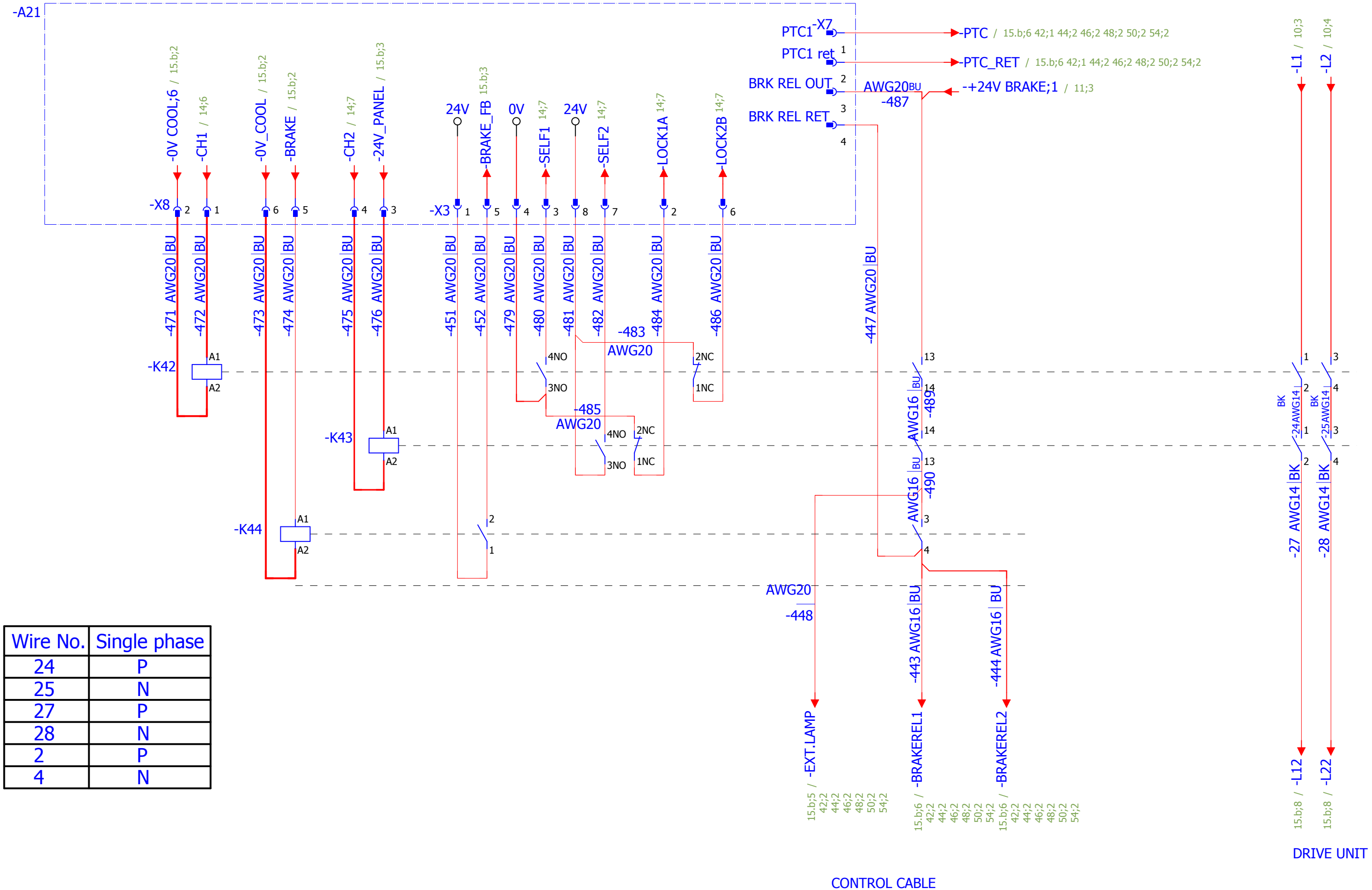
Plant: =
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Sublocation: +

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Document no.
3HAC049406-003

Rev. Ind Page 14
04 Next 15.a
Total 59

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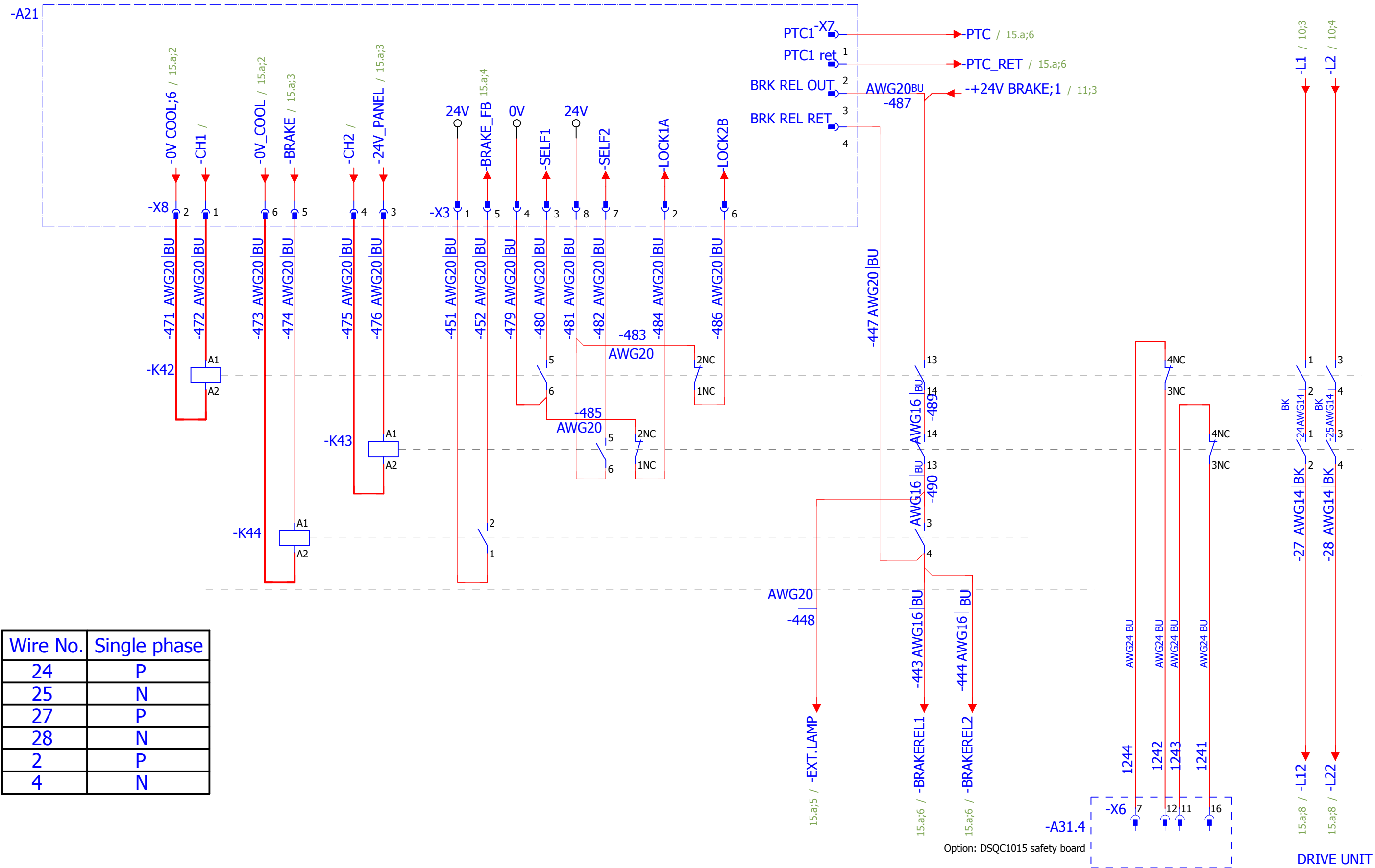
Wire No.	Single phase
24	P
25	N
27	P
28	N
2	P
4	N

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ABB Lab/Office:
 POWER UNIT
 SERVO DISCONNECTOR

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 Plant: =
 Location: +
 Sublocation: +
 Document no. 3HAC049406-003
 Rev. Ind 04
 Page 15.a
 Next 15.b
 Total 59

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Wire No.	Single phase
24	P
25	N
27	P
28	N
2	P
4	N

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Lab/Office:

POWER UNIT SERVO DISCONNECTOR, Option-Safemove

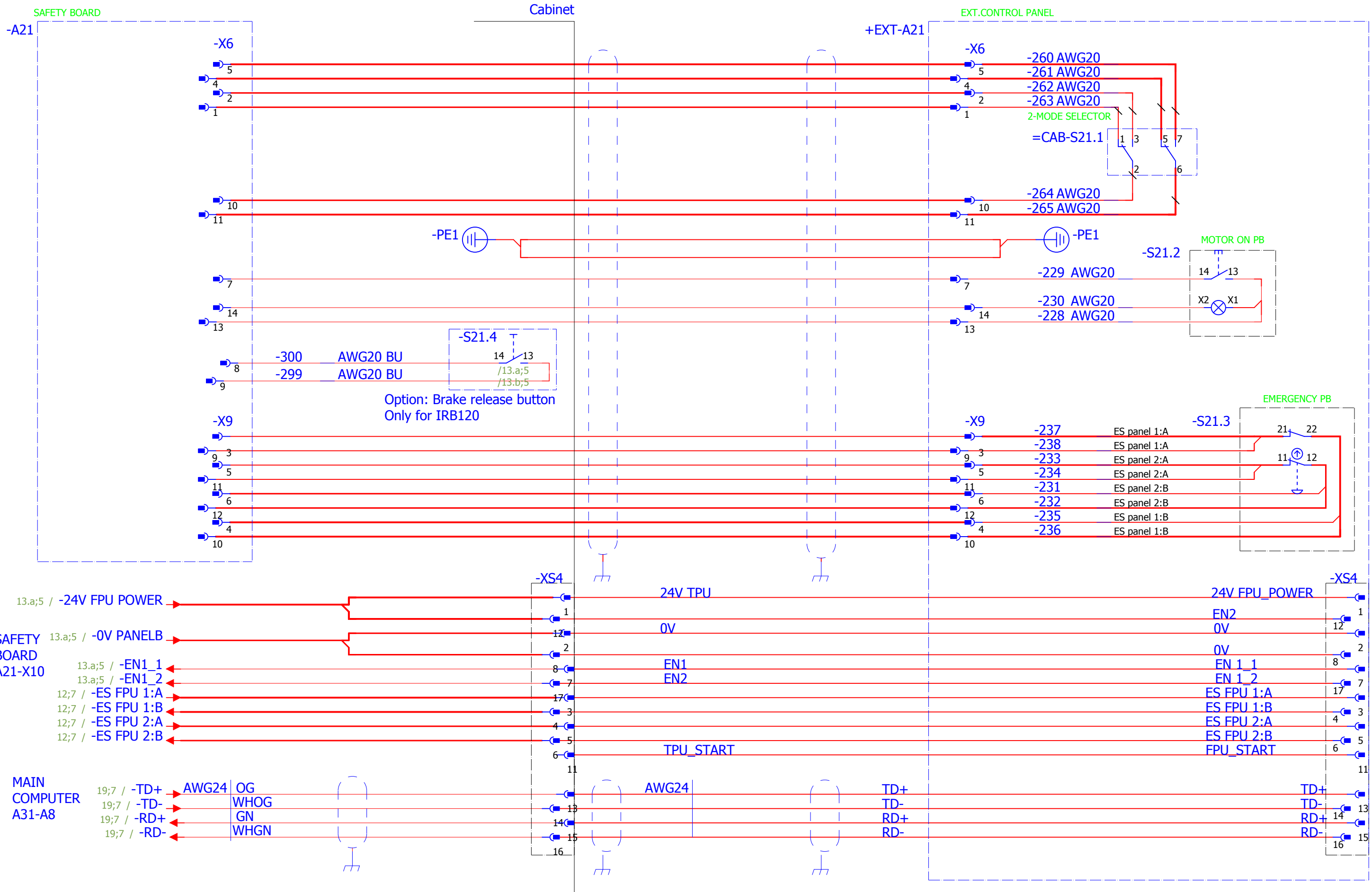
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Document no. 3HAC049406-003

Plant: = Location: + Sublocation: +

Rev. Ind 04 Page 15.b Next 16 Total 59

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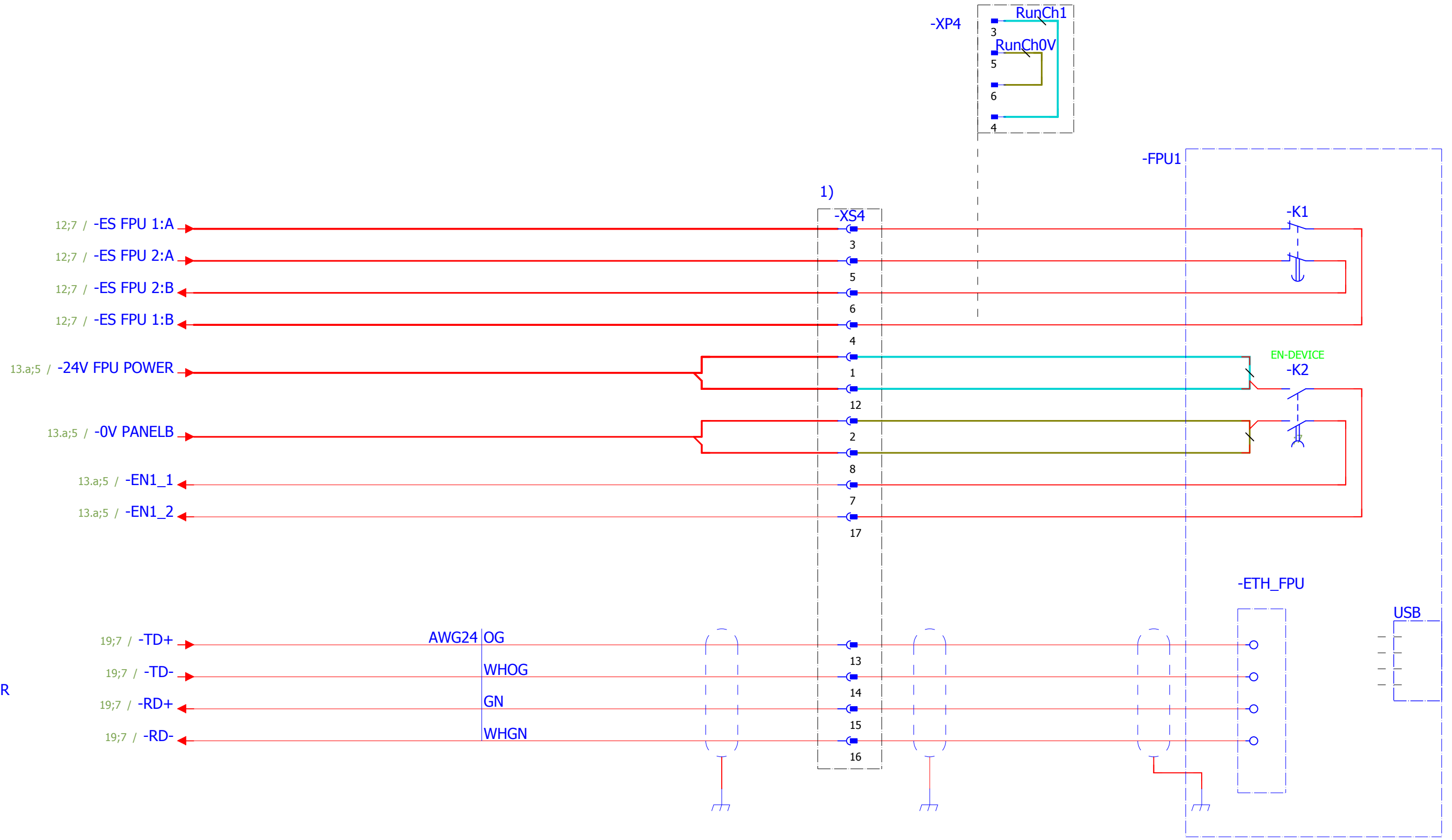
ABB Lab/Office:
 CONTROL PANEL

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 Plant: = Location: + Sublocation: +
 Document no. 3HAC049406-003 Rev. Ind 04 Page 16 Next 17 Total 59

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SAFETY BOARD
A21-X10

MAIN COMPUTER
A31-A8



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FPU, FLEXPENDANT

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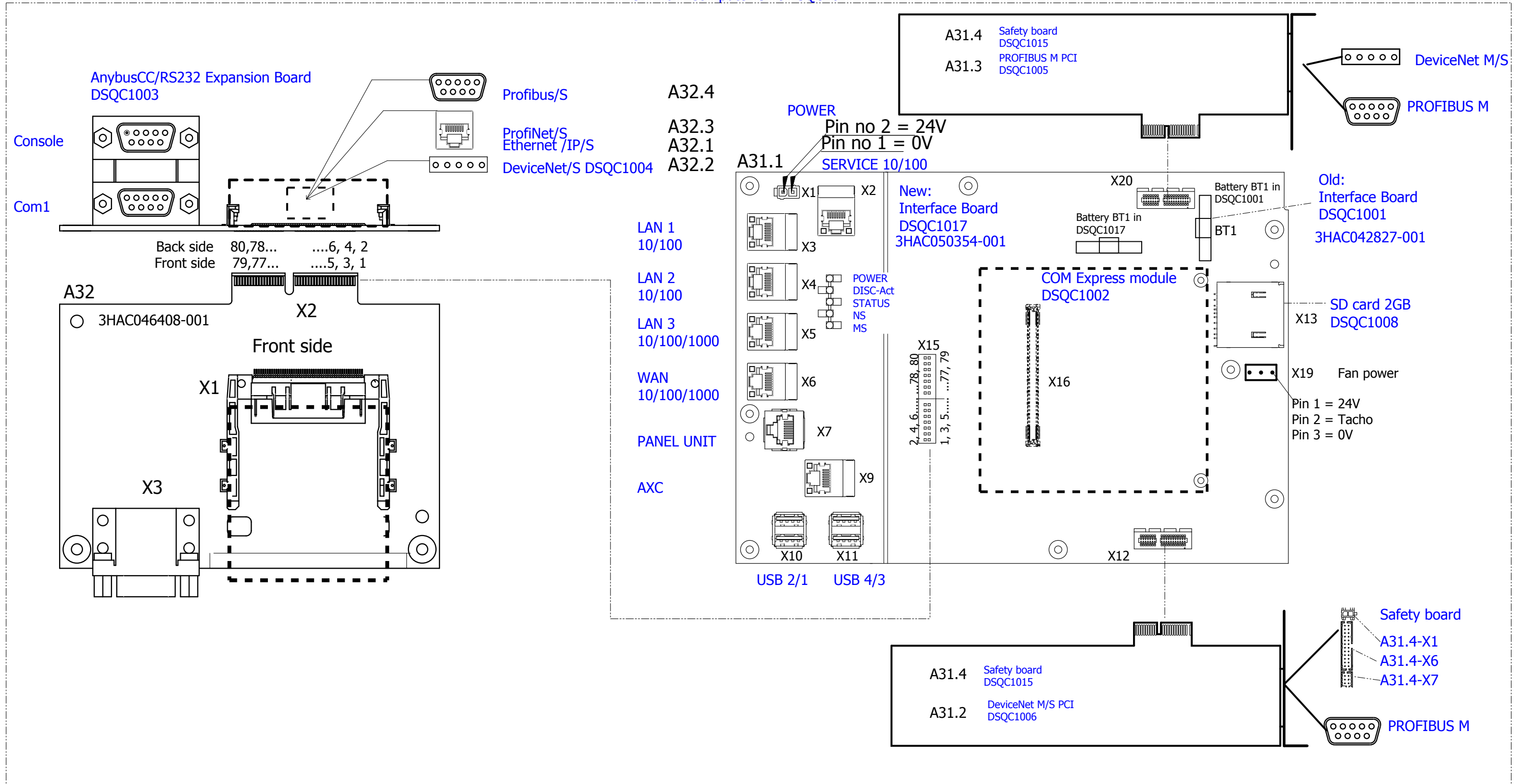
Approved by, date:

Document no.
3HAC049406-003

Rev. Ind Page 17
04 Next 18
Total 59

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A31
 Old Main Computer Unit DSQC1018
 New main Computer Unit DSQC1024



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Main Computer/AnybusCC/RS232 Exp./Interface Board/

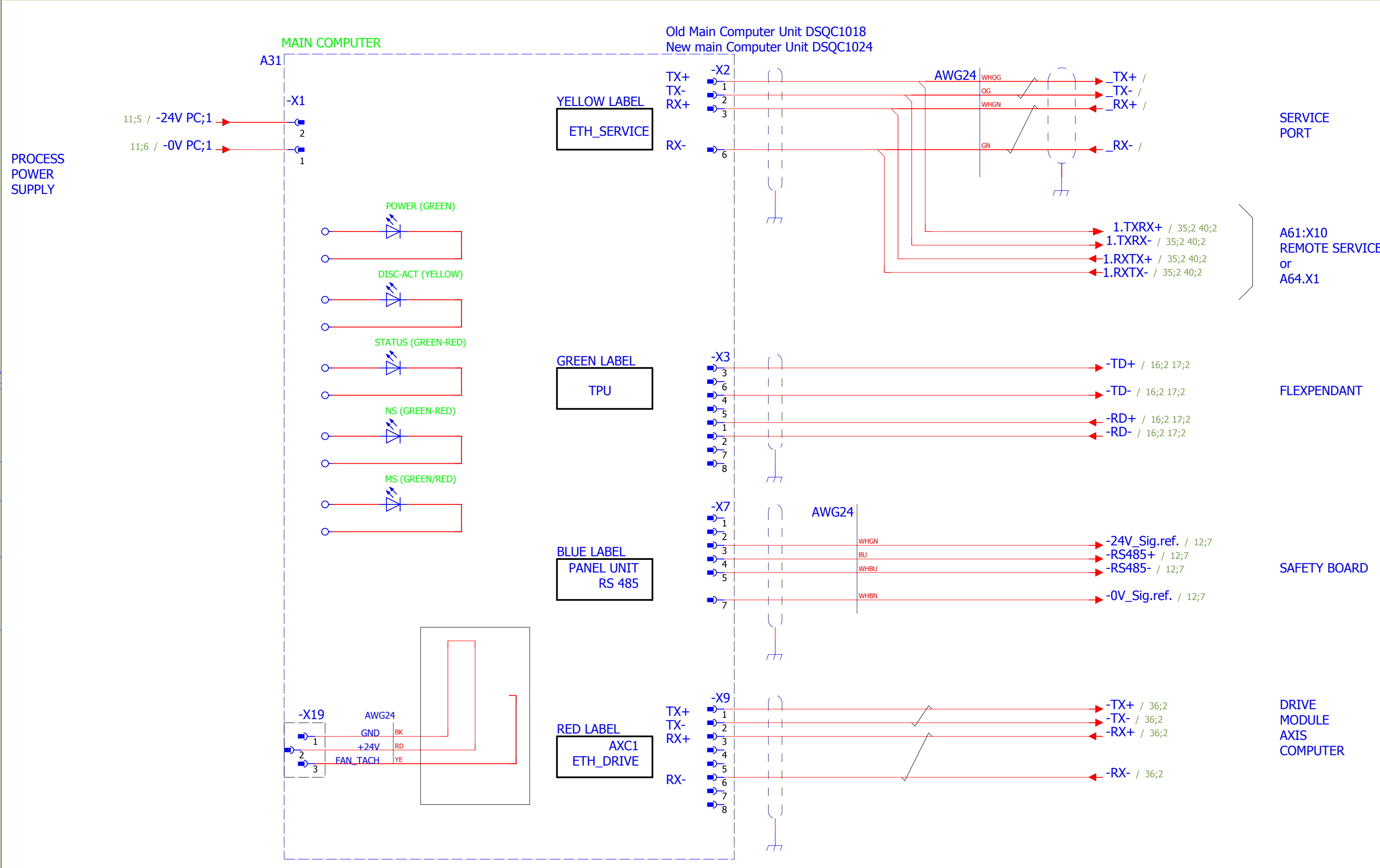
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Plant: = Location: + Sublocation: +

Document no. 3HAC049406-003

Rev. Ind 04 Page 18 Next 19 Total 59

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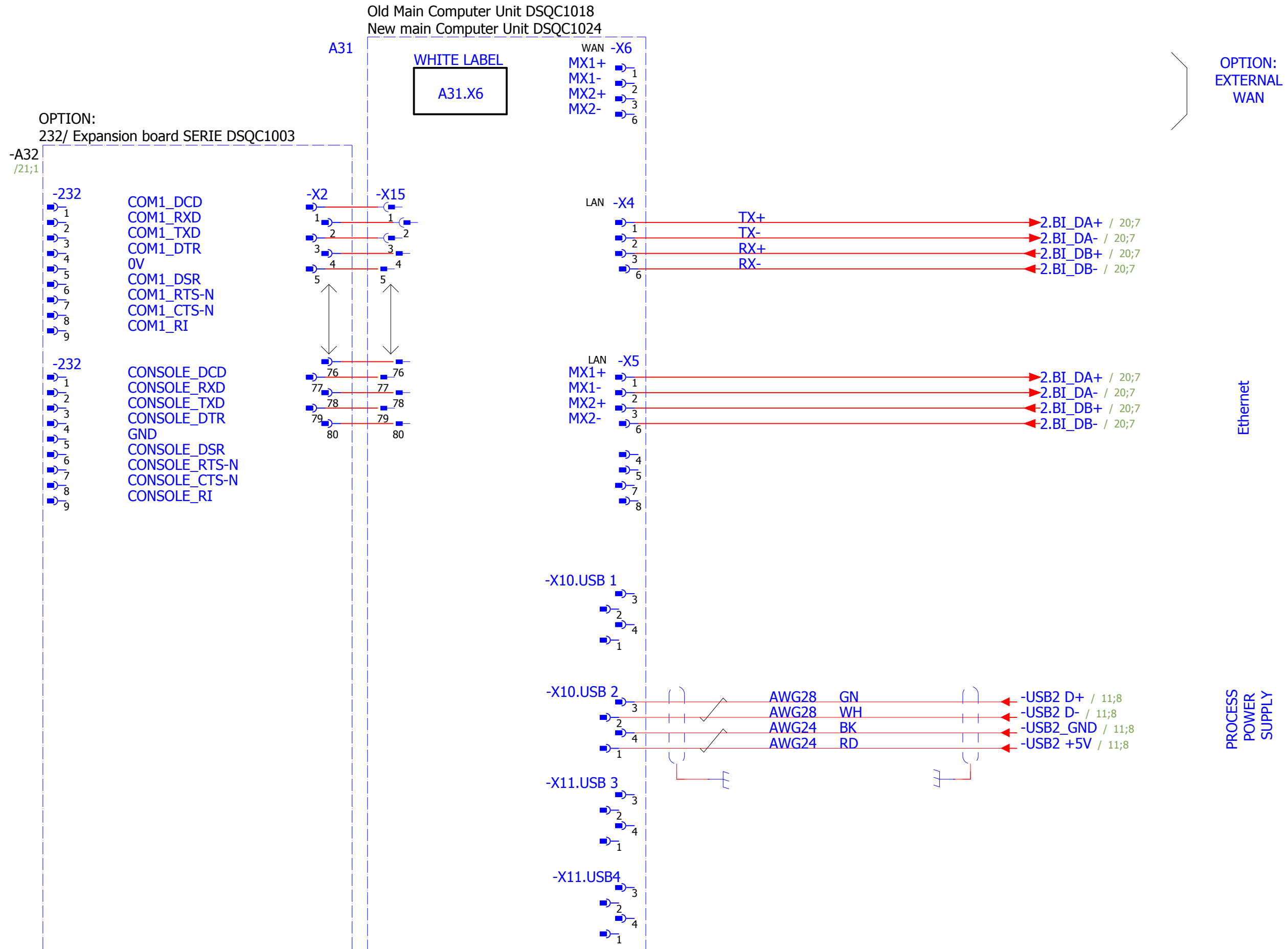
ABB Lab/Office:

MAIN COMPUTER A31 DSQC1018 / DSQC1024

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 Plant: =
 Location: +
 Sublocation: +

Document no. 3HAC049406-003
 Rev. Ind 04
 Page 19
 Next 20
 Total 59

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Lab/Office:

MAIN COMPUTER A31 DSQC1018 / DSQC1024; A32 DSQC1003

Status:

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Plant: =
 Location: +
 Sublocation: +

Document no.

3HAC049406-003

Rev. Ind

04

Page 20

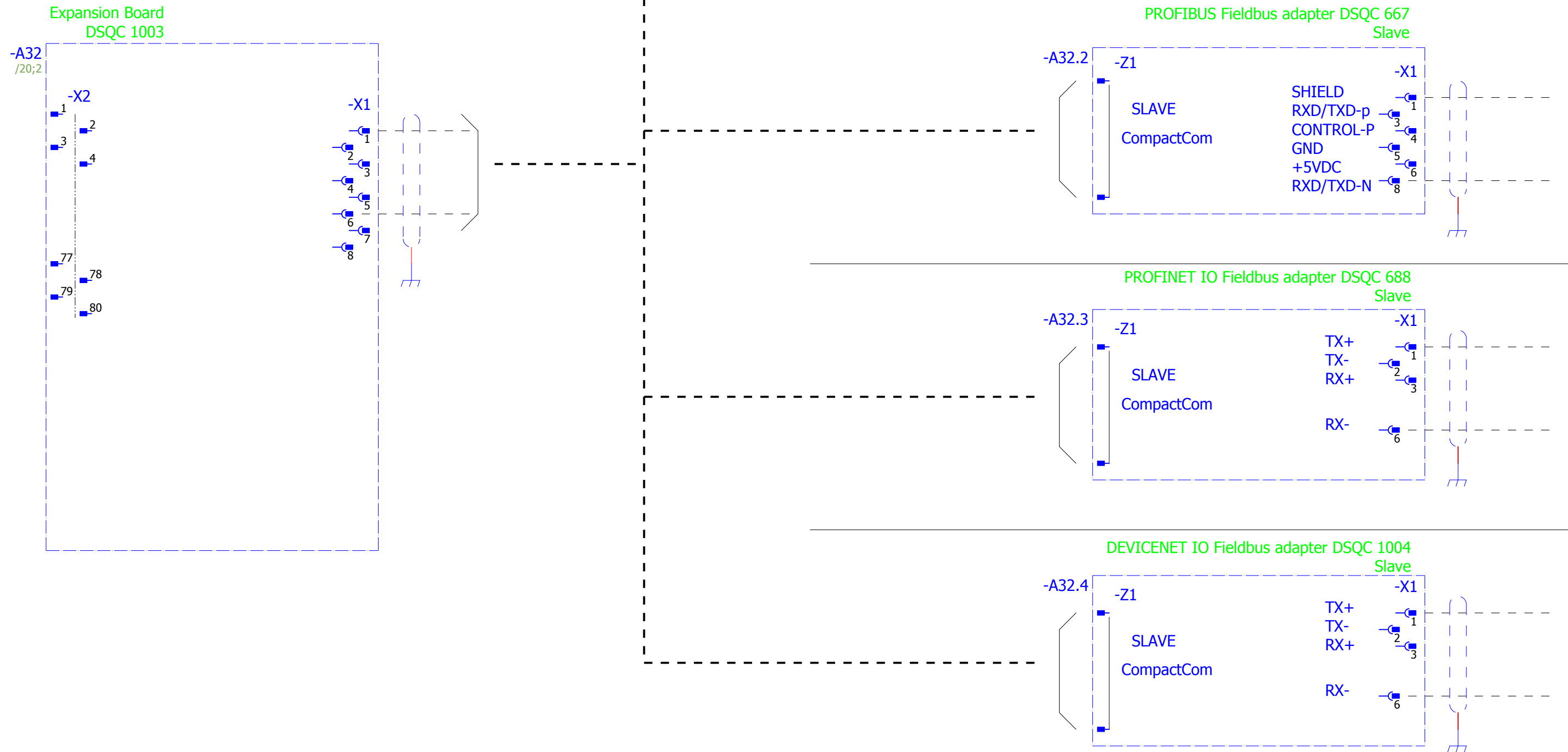
Next 21

Total 59

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OPTION & HARNESS TO CUSTOMER I/O

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FIELDBUS ADAPTER A32:
 ETHERNET/IP, PROFIBUS and
 PROFINET IO

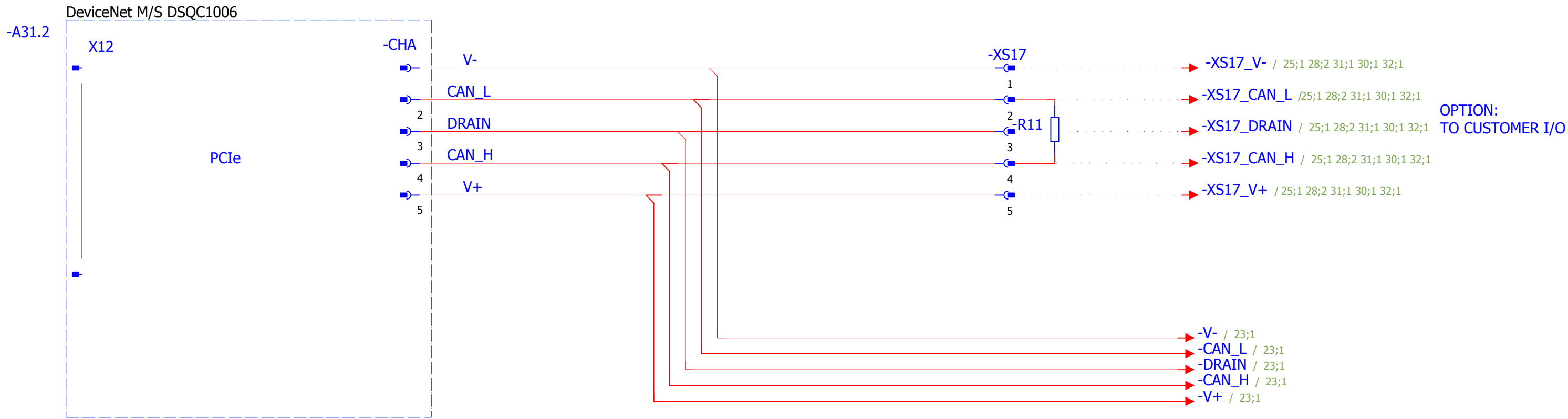
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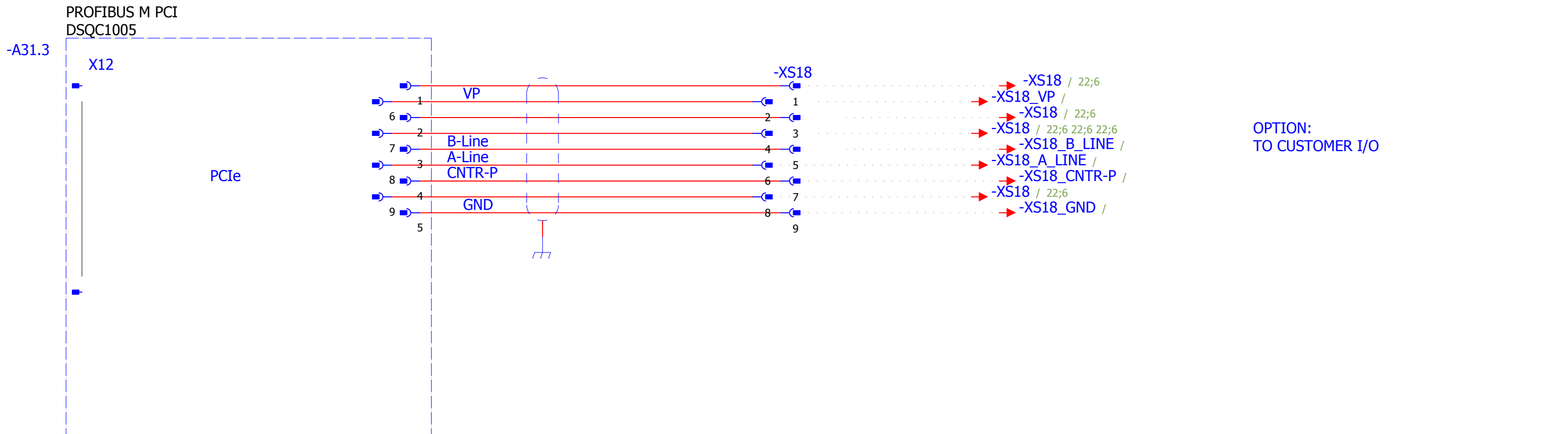
Document no.
 3HAC049406-003

Rev. Ind Page 21
 04 Next 22
 Total 59

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TO CUSTOMER I/O



OPTION:
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DEVICENET A31.2 DSQC1006 / PROFIBUS A31.3 DSQC1005

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Document no.

3HAC049406-003

Rev. Ind Page 22

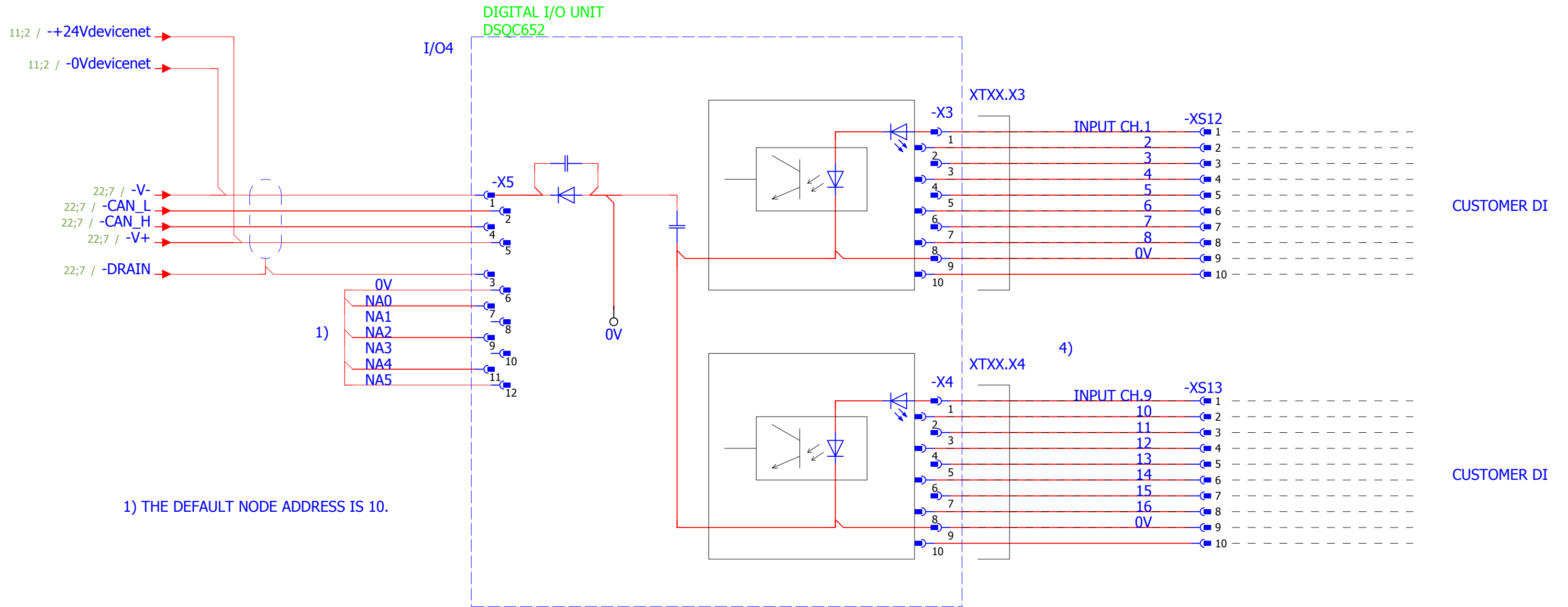
04 Next 23

Total 59

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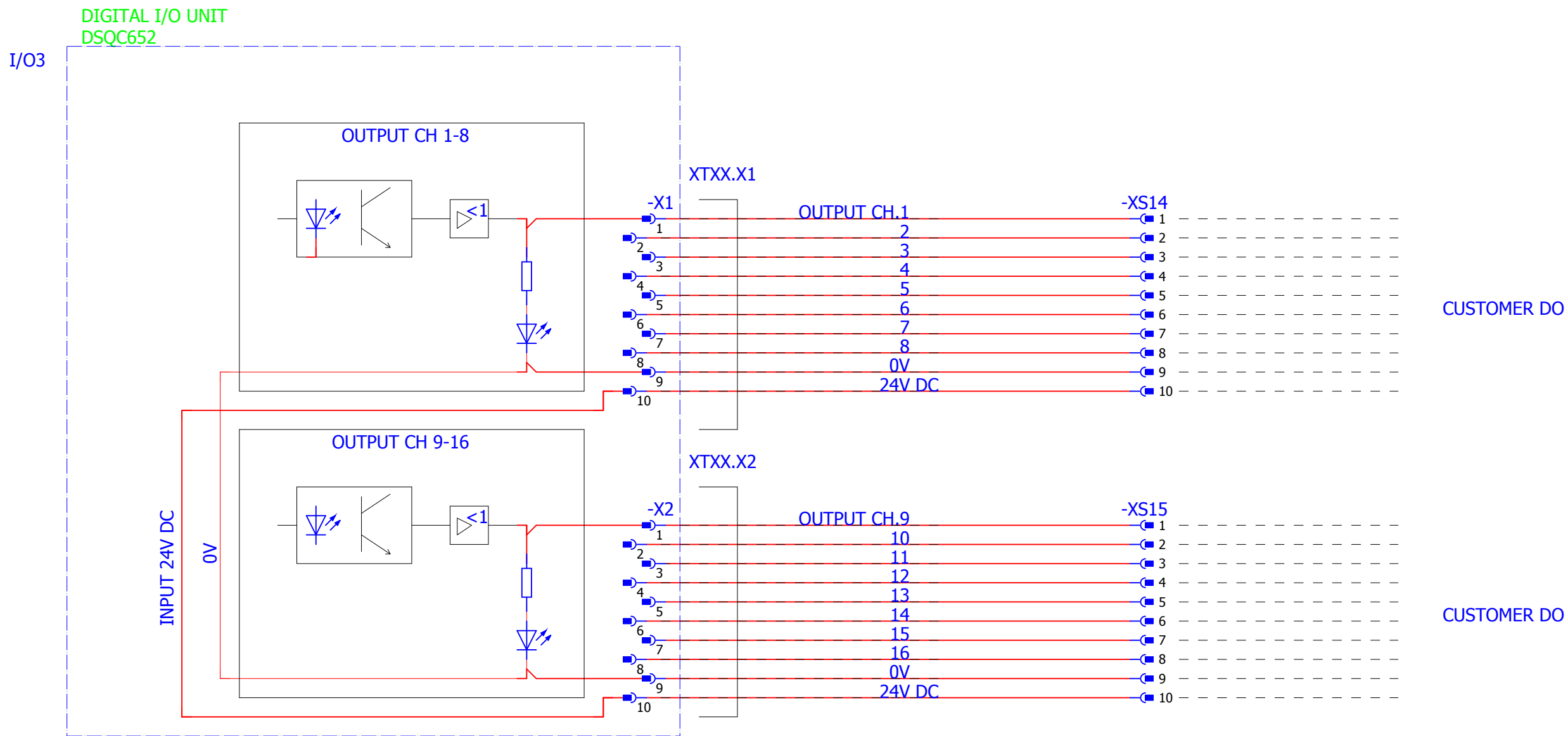
DIGITAL I/O UNIT INPUT

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Plant: =
Location: +
Sublocation: +

Document no.
3HAC049406-003

Rev. Ind Page 23
04 Next 24
Total 59



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Document no.

3HAC049406-003

Rev. Ind

04

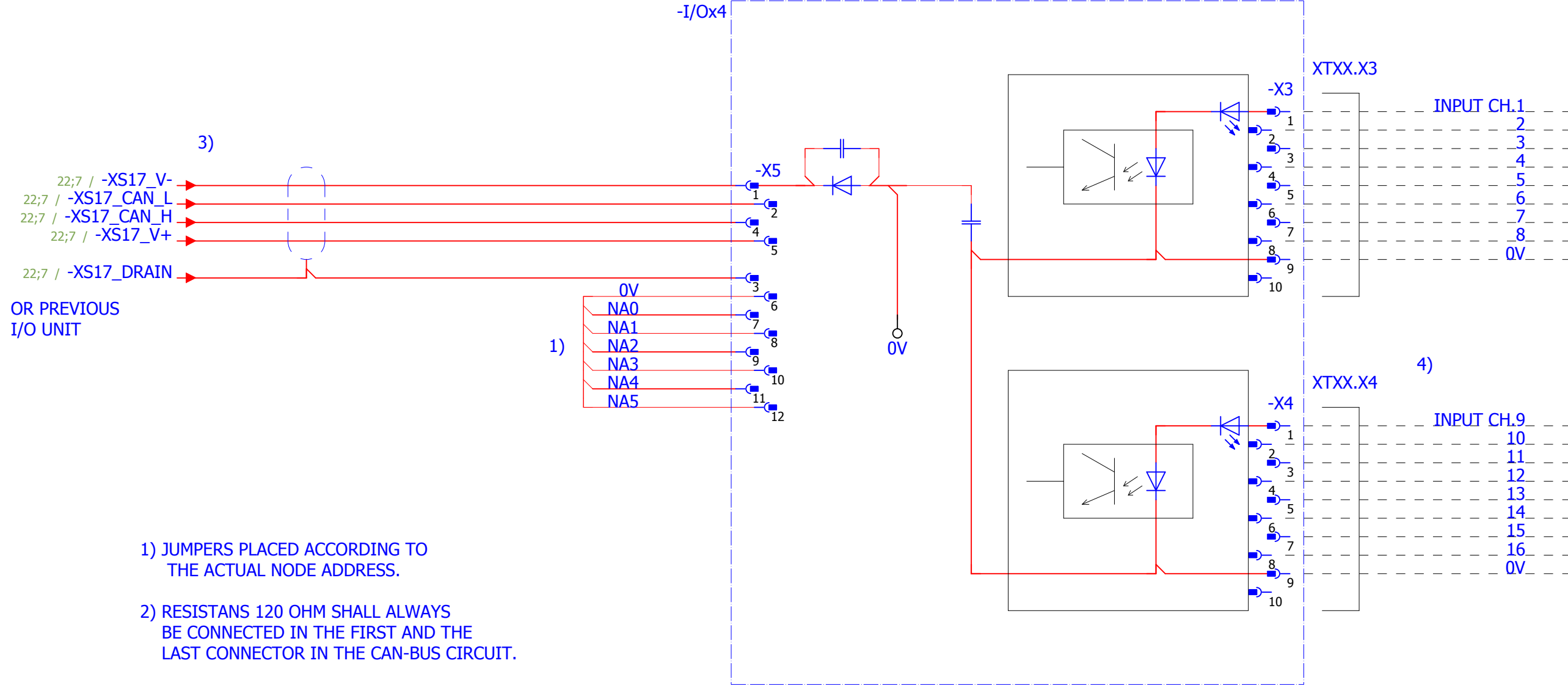
Page 24

Next 25
Total 59

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DIG. PART OF COMBI I/O AND DIG. I/O UNIT

opt. 816
opt. 817
DSQC 651& 652



3)
22;7 / -XS17_V-
22;7 / -XS17_CAN_L
22;7 / -XS17_CAN_H
22;7 / -XS17_V+
22;7 / -XS17_DRAIN
OR PREVIOUS I/O UNIT

1)
0V
NA0
NA1
NA2
NA3
NA4
NA5

- 1) JUMPERS PLACED ACCORDING TO THE ACTUAL NODE ADDRESS.
- 2) RESISTANS 120 OHM SHALL ALWAYS BE CONNECTED IN THE FIRST AND THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.
- 3) CONNECTED IN THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.
- 4) ONLY FOR DIGITAL I/O DSQC 652.



Lab/Office:

DIGITAL PART OF COMBI I/O AND DIGITAL I/O UNIT DSQC651&652

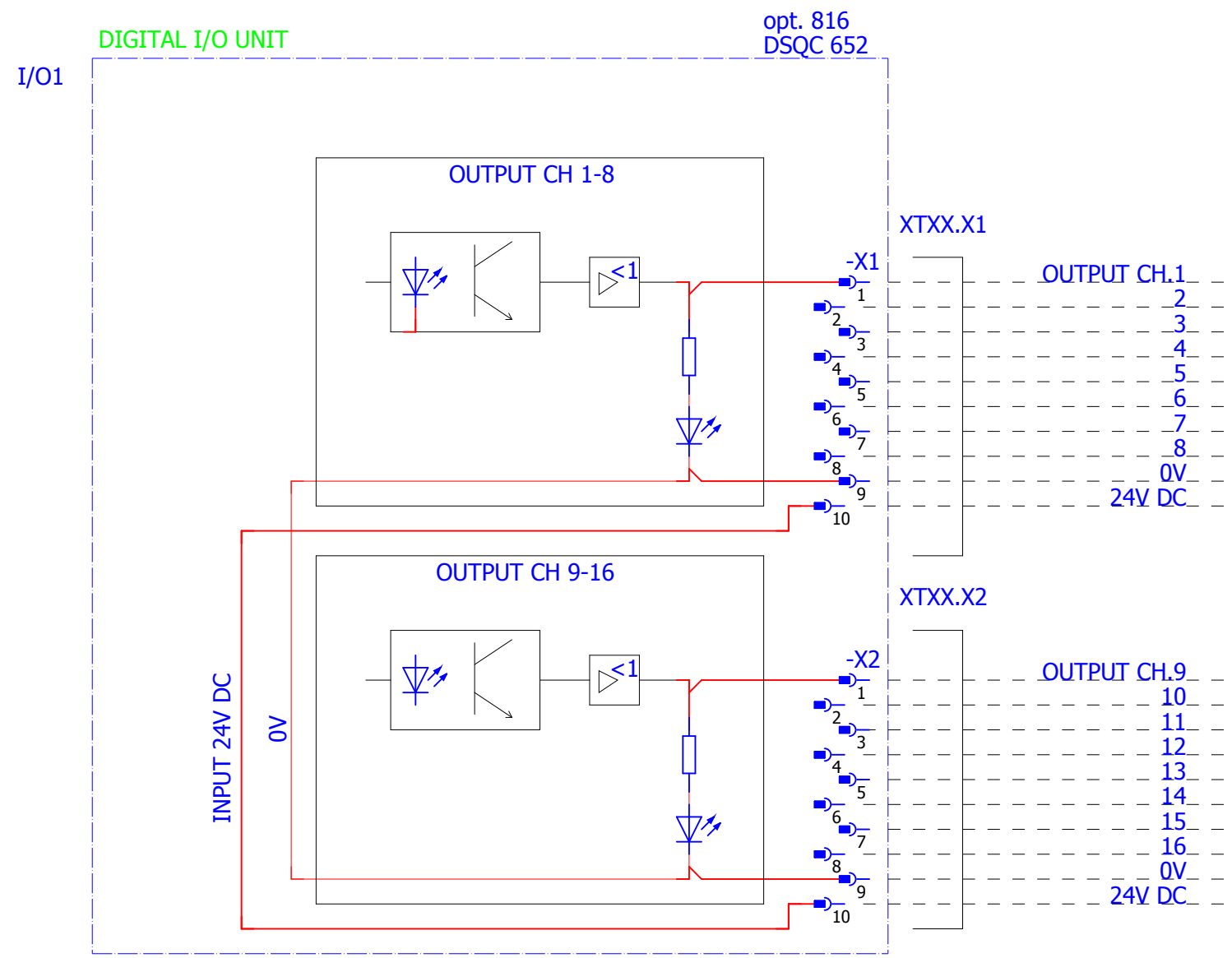
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3HAC049406-003

Rev. Ind Page 25
04 Next 26
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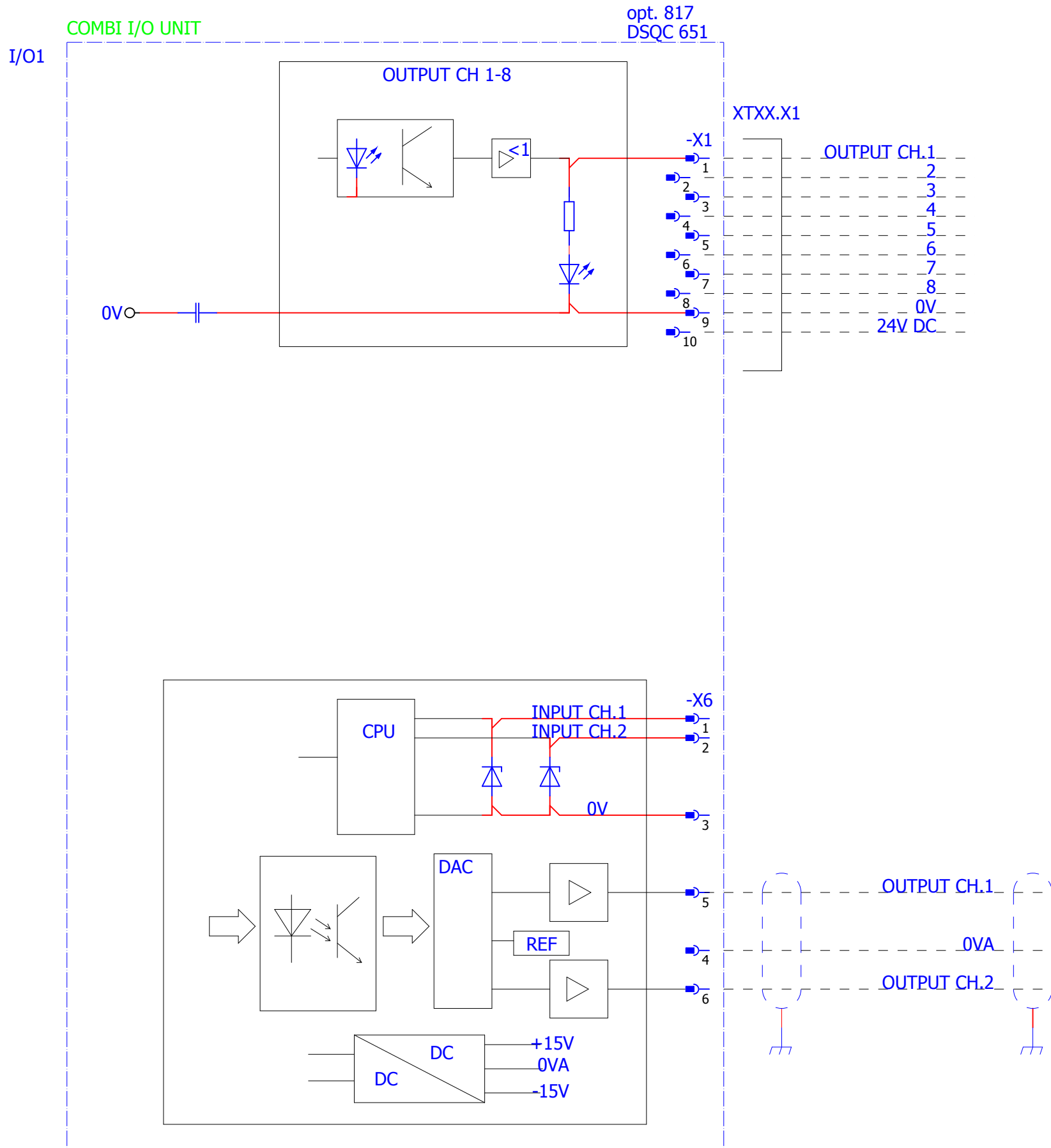
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Document no. 3HAC049406-003	Rev. Ind 04	Page 26 Next 27 Total 59
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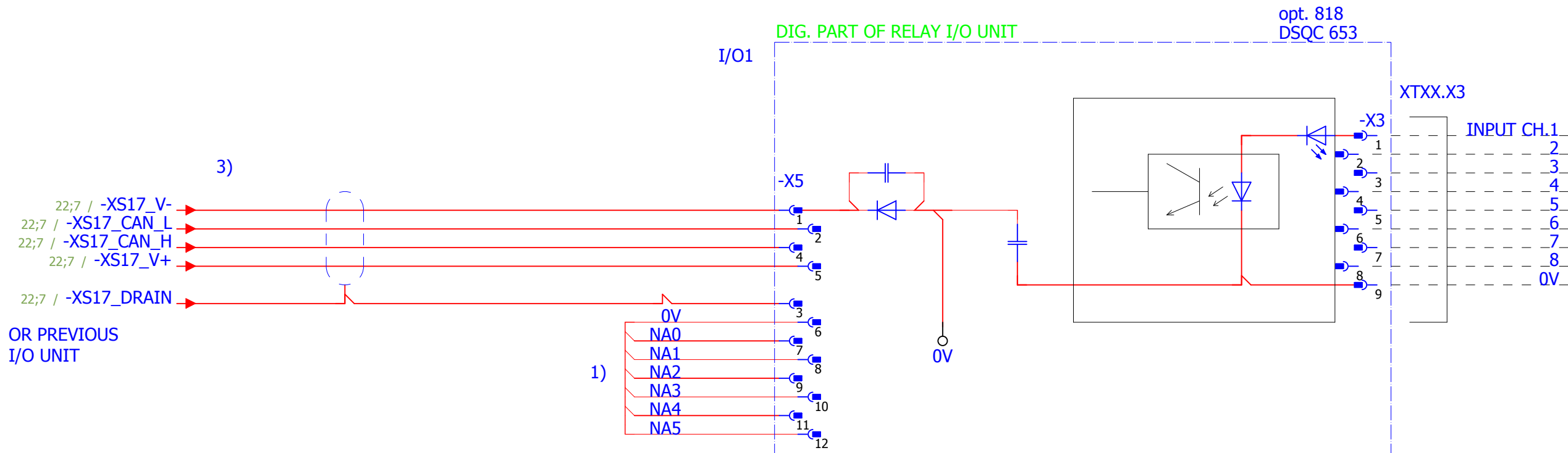
Document no.
3HAC049406-003

Rev. Ind	Page 27
04	Next 28
	Total 59

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- 2) RESISTANS 120 OHM SHALL ALWAYS BE CONNECTED IN THE FIRST AND THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.
- 3) CONNECTED IN THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.

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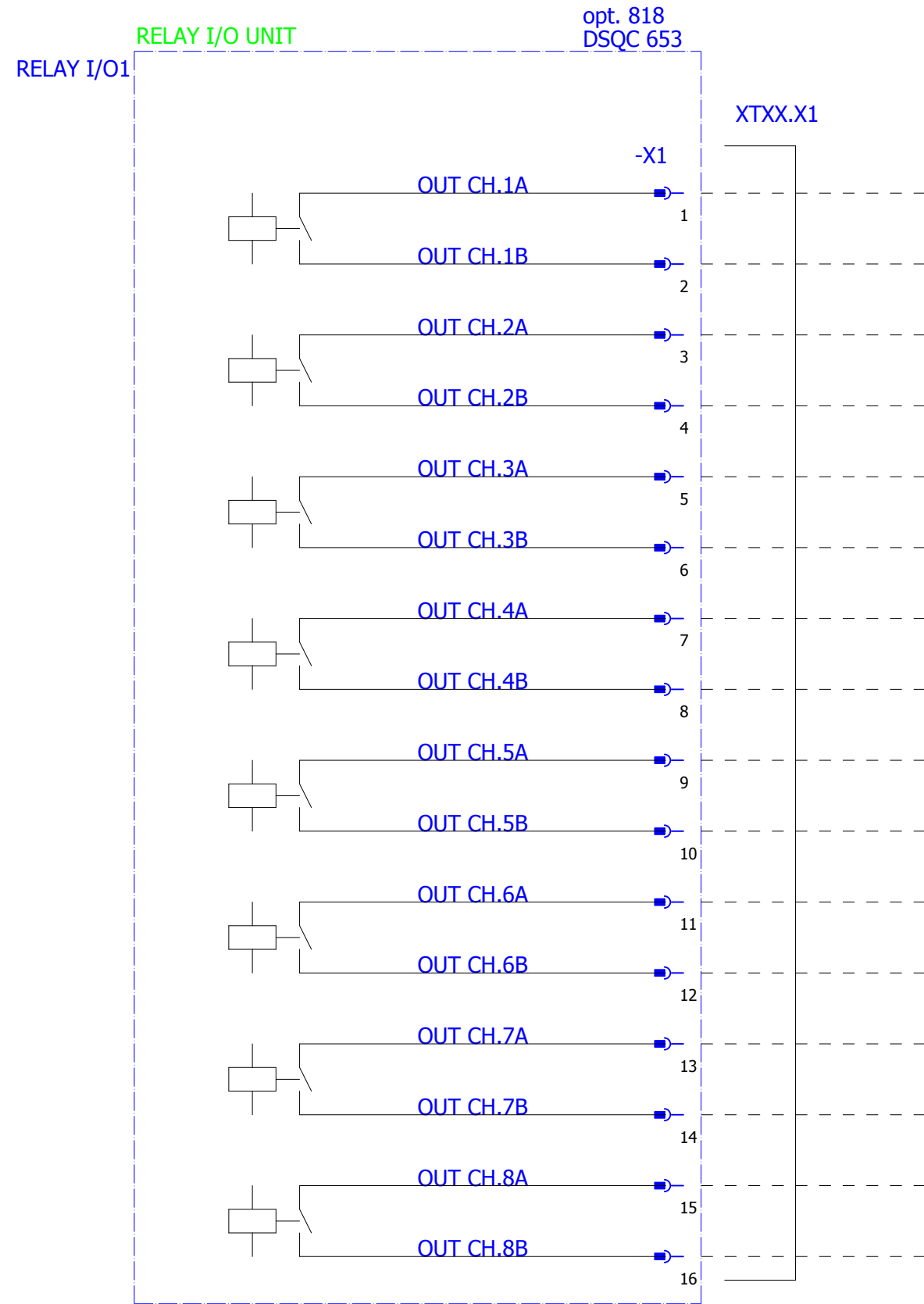


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Document no. 3HAC049406-003	Rev. Ind 04
	Page 28 Next 29 Total 59

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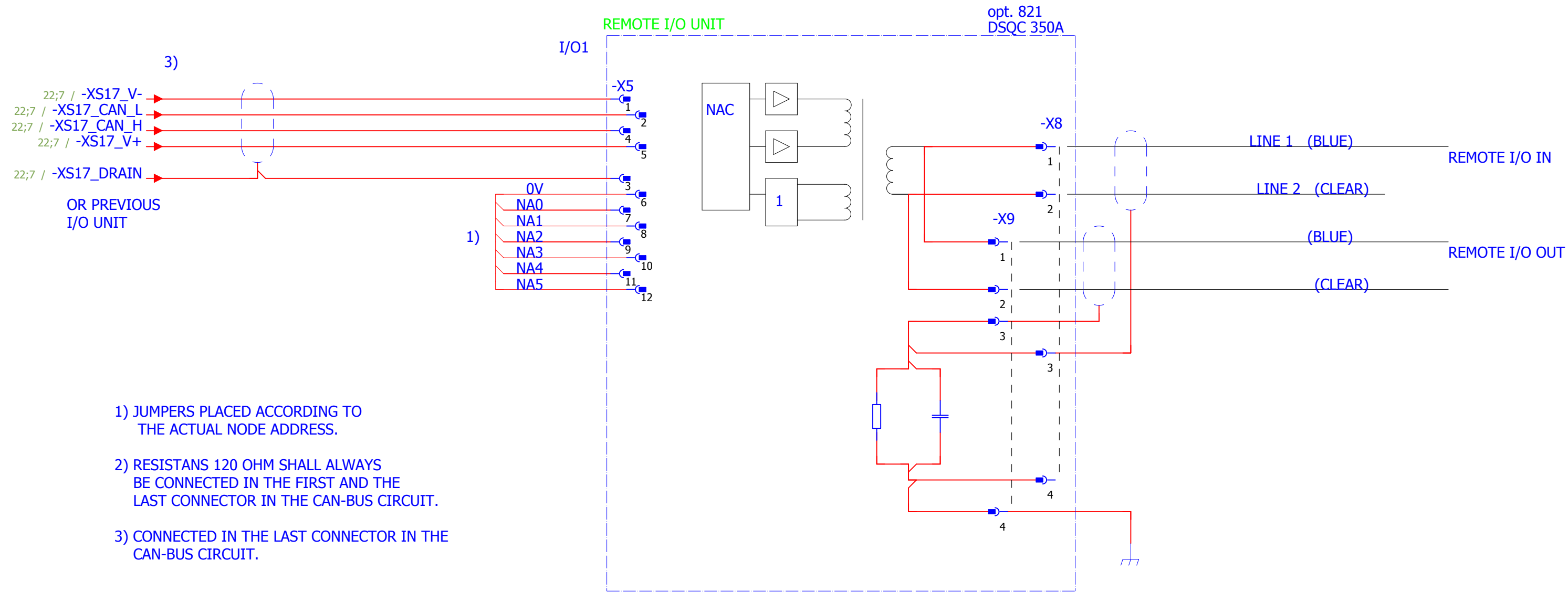
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3HAC049406-003

Rev. Ind Page 29
04 Next 30
Total 59

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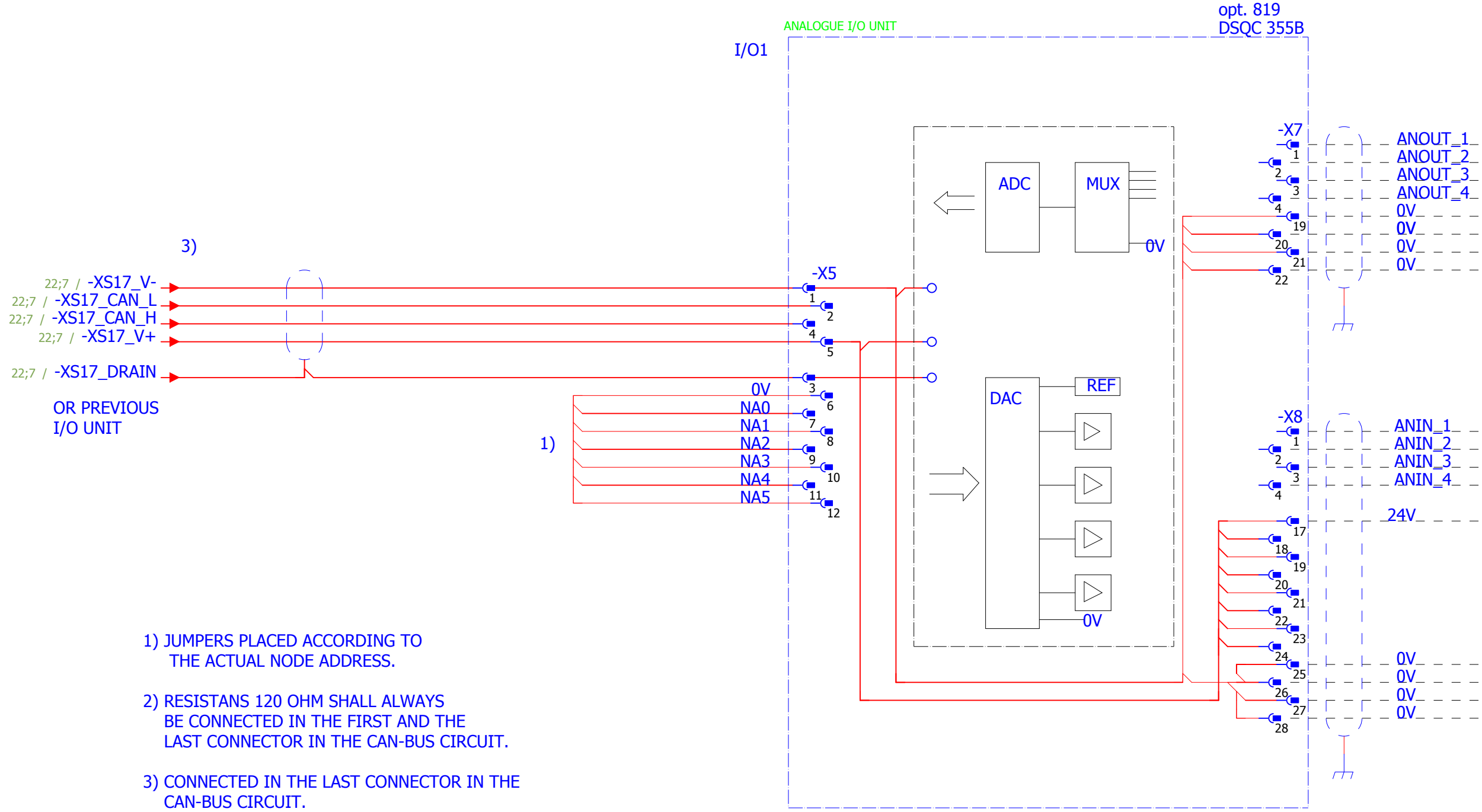
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Document no. 3HAC049406-003

Rev. Ind 04
 Page 30
 Next 31
 Total 59

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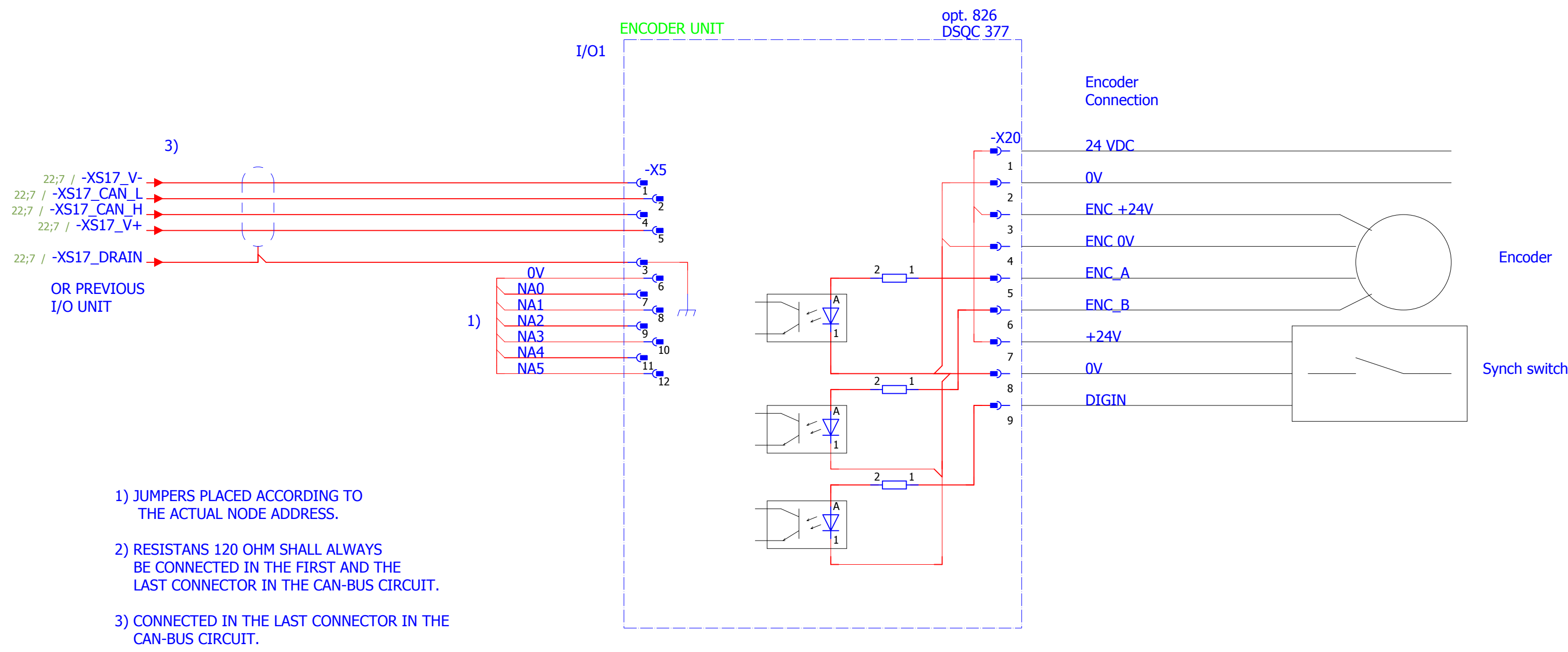
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Document no. 3HAC049406-003 Rev. Ind 04 Page 31
Next 32
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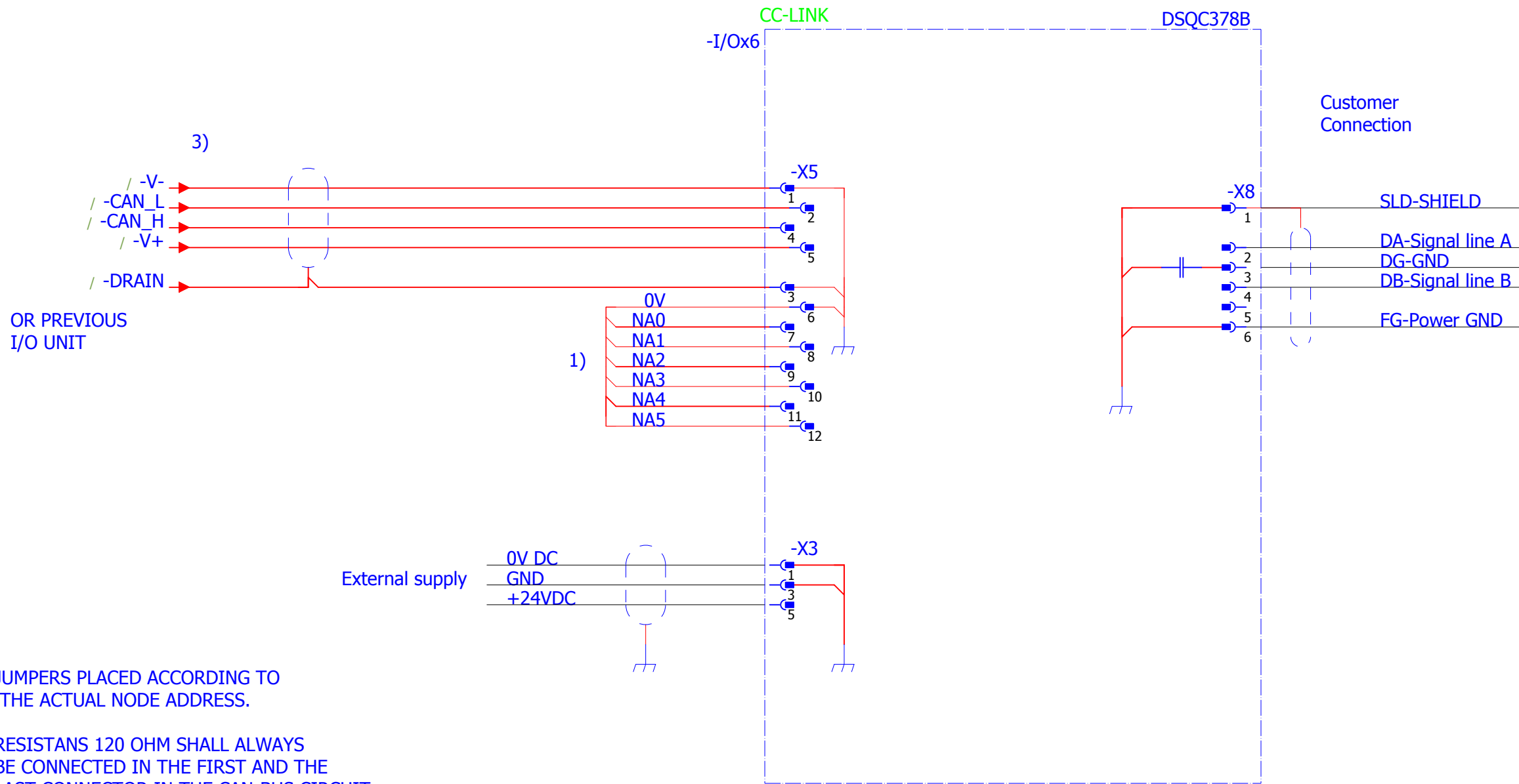


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Document no. 3HAC049406-003	Rev. Ind 04
	Page 32 Next 33 Total 59

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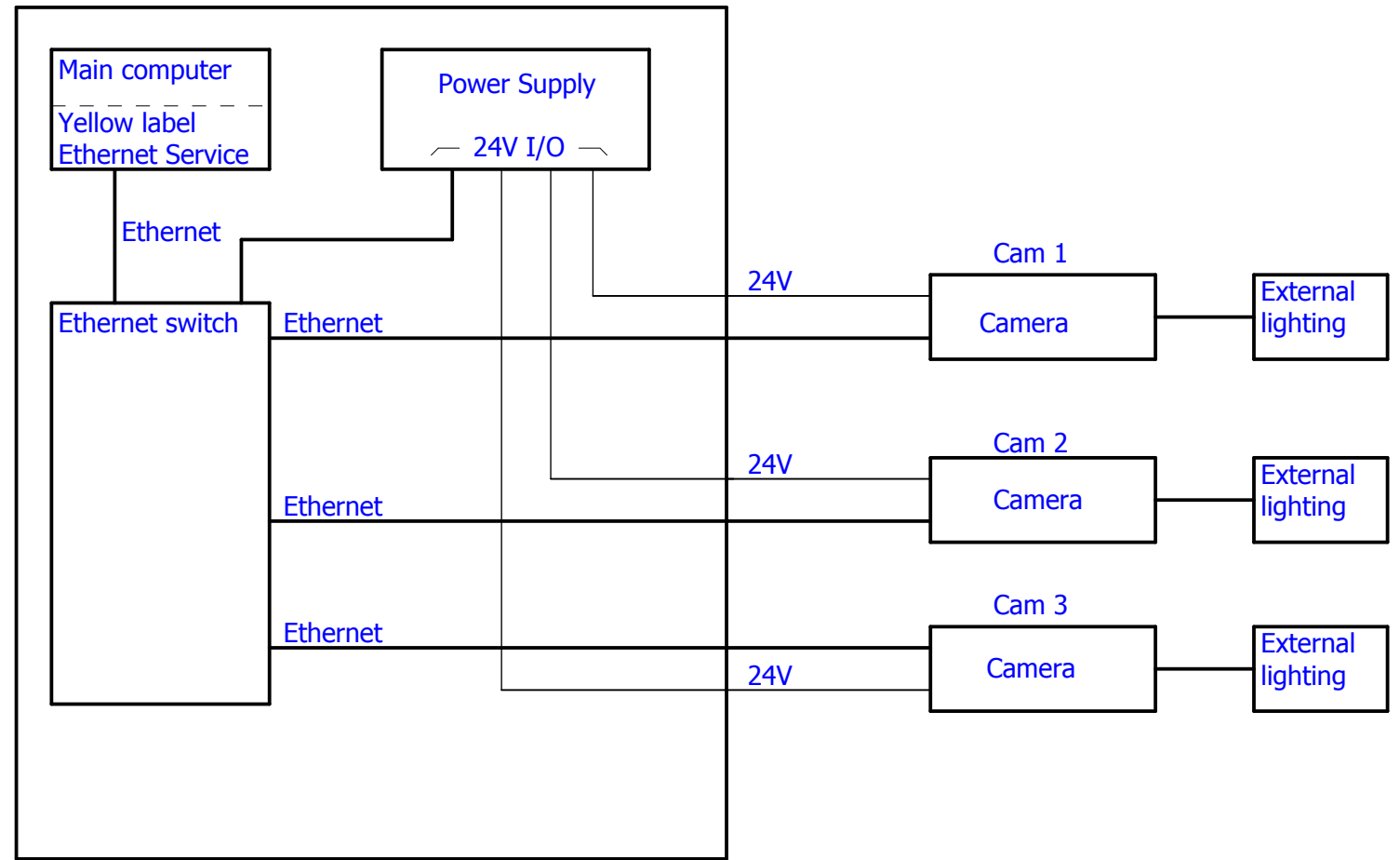
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- RESISTORS 120 OHM SHALL ALWAYS BE CONNECTED IN THE FIRST AND THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.
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Robot controller



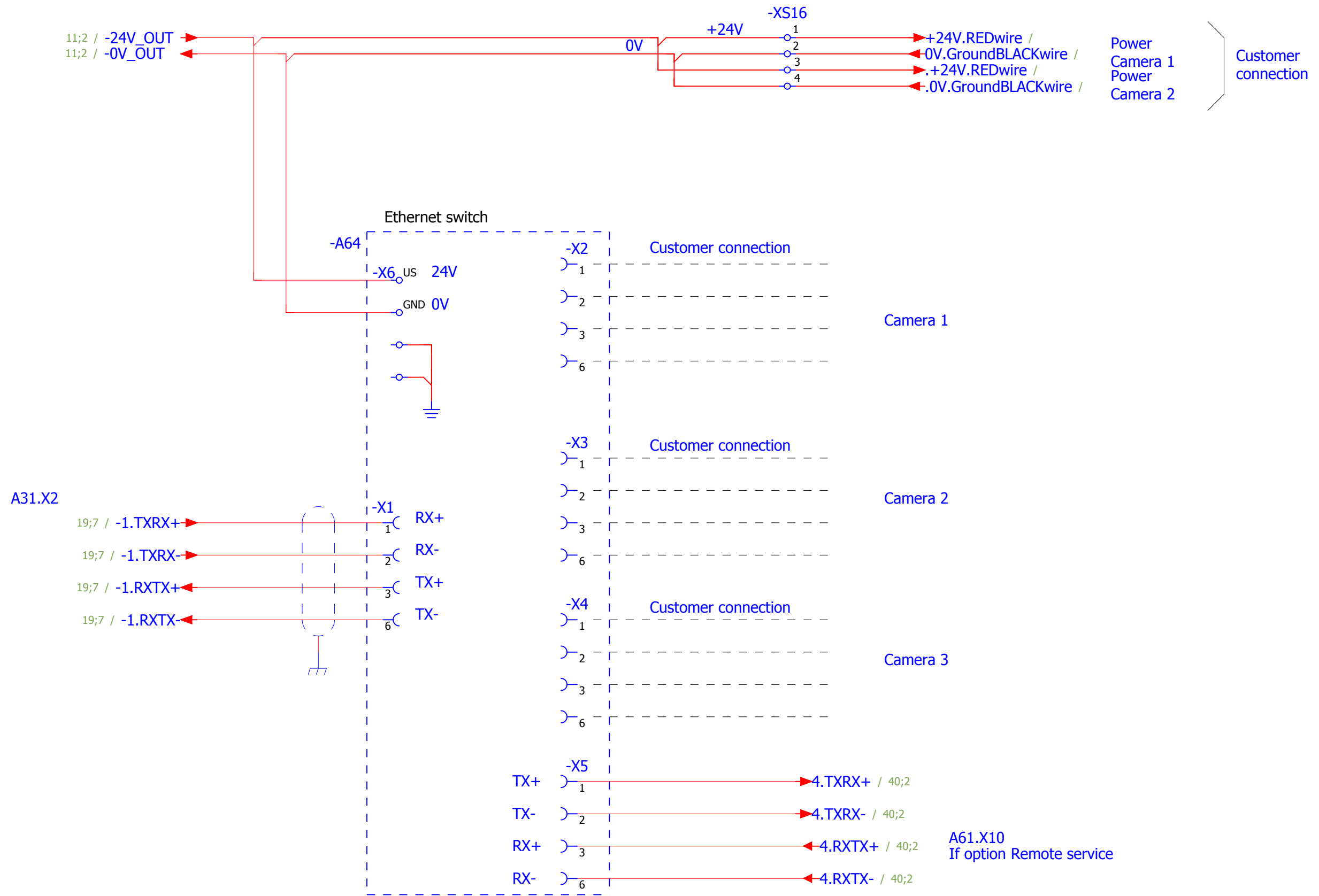
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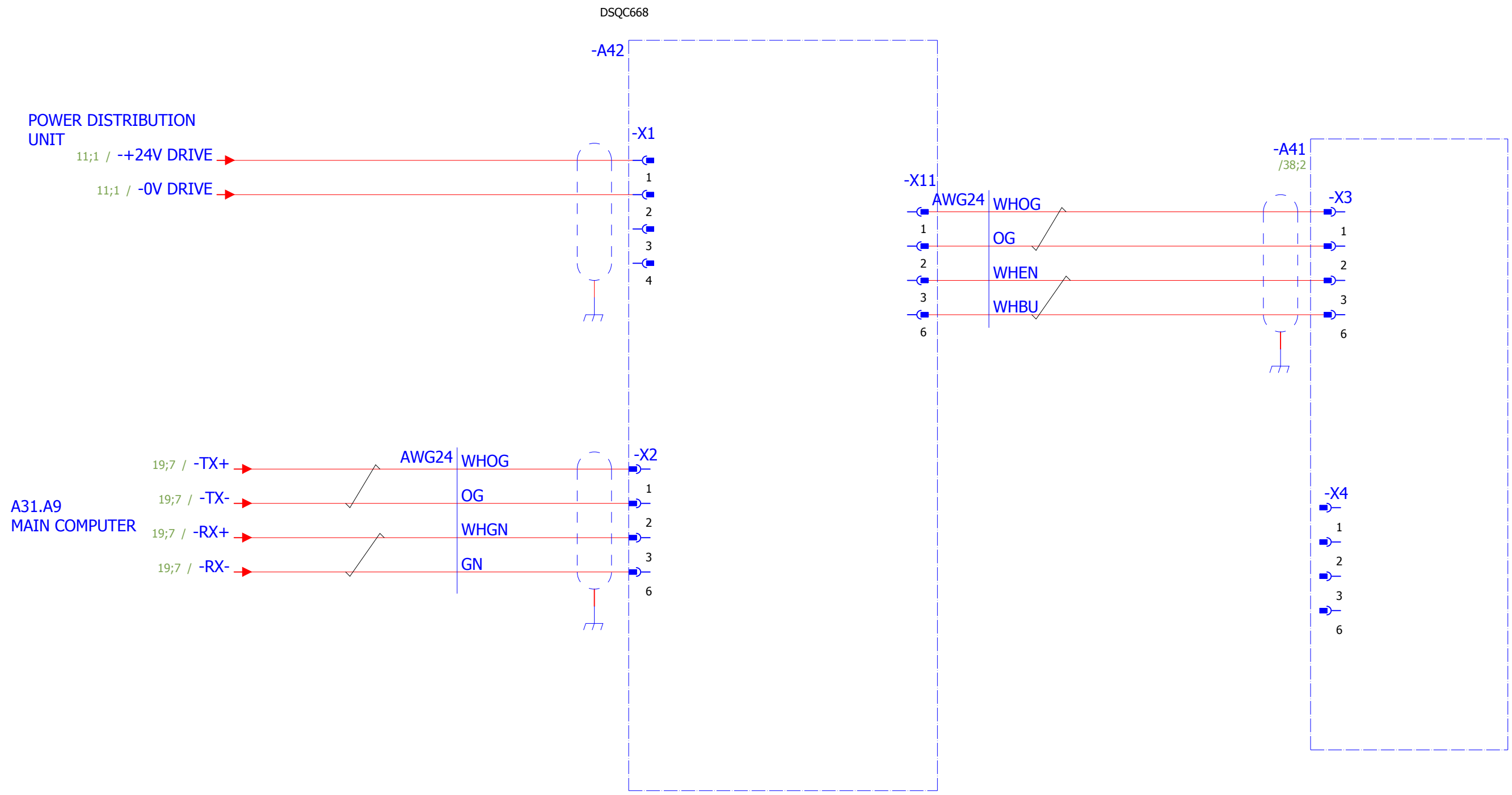
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3HAC049406-003

Rev. Ind Page 35
04 Next 36
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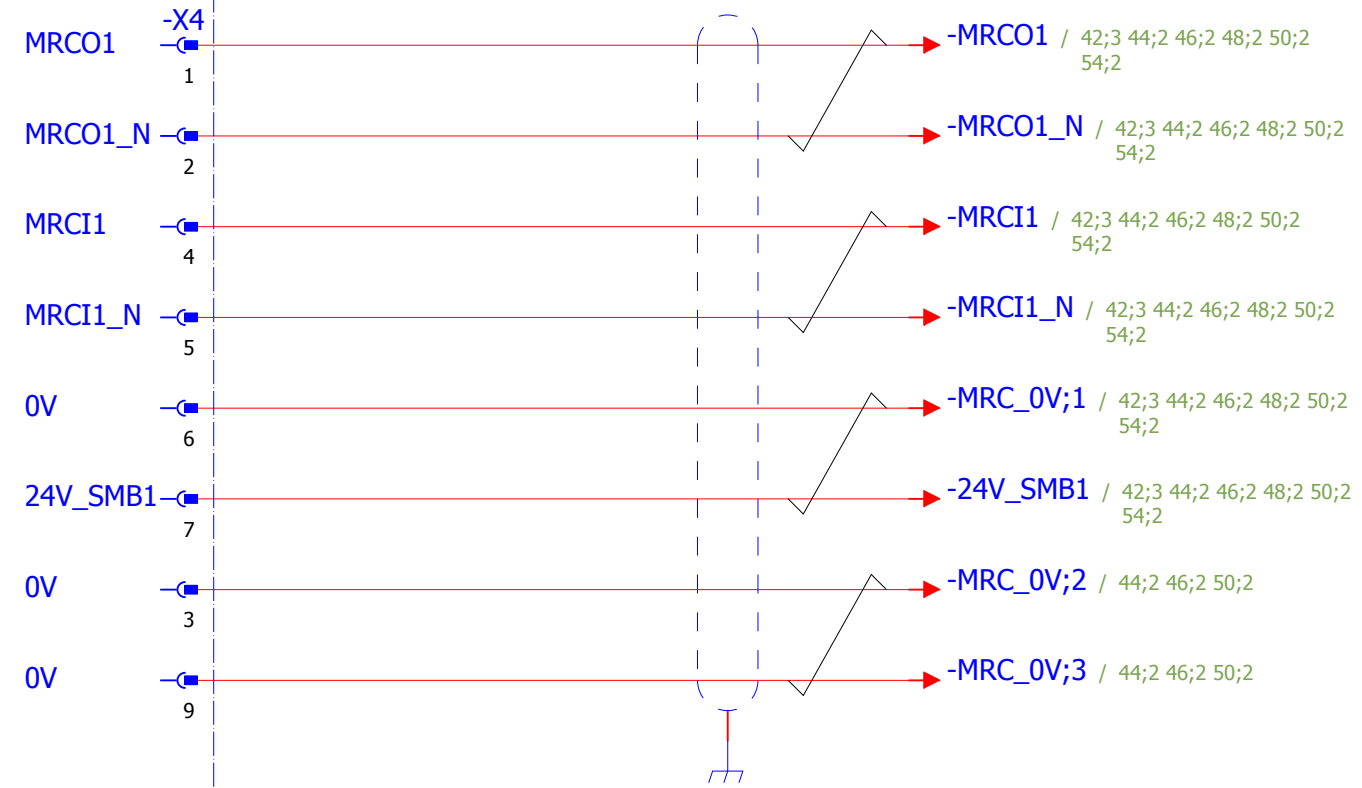
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3HAC049406-003

Rev. Ind Page 36
04 Next 37
Total 59

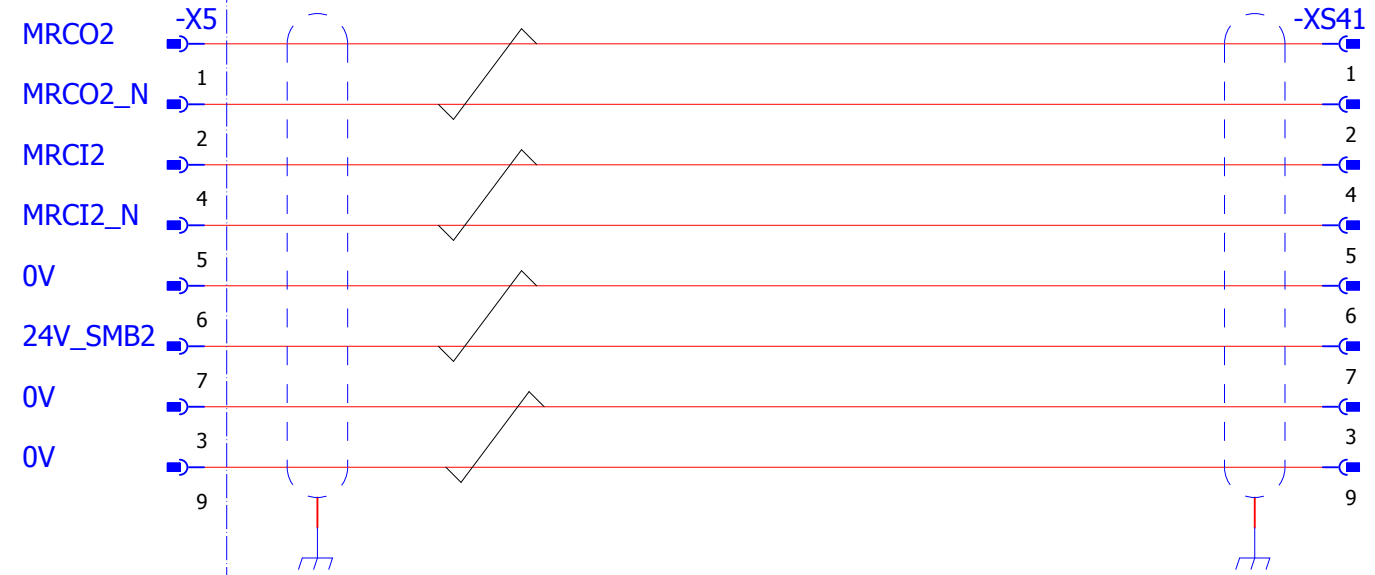
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CONTROL SIGNAL



CABINET WALL

EXT. AXIS SIGNAL

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Rev. Ind

04

Page 37

Next 38

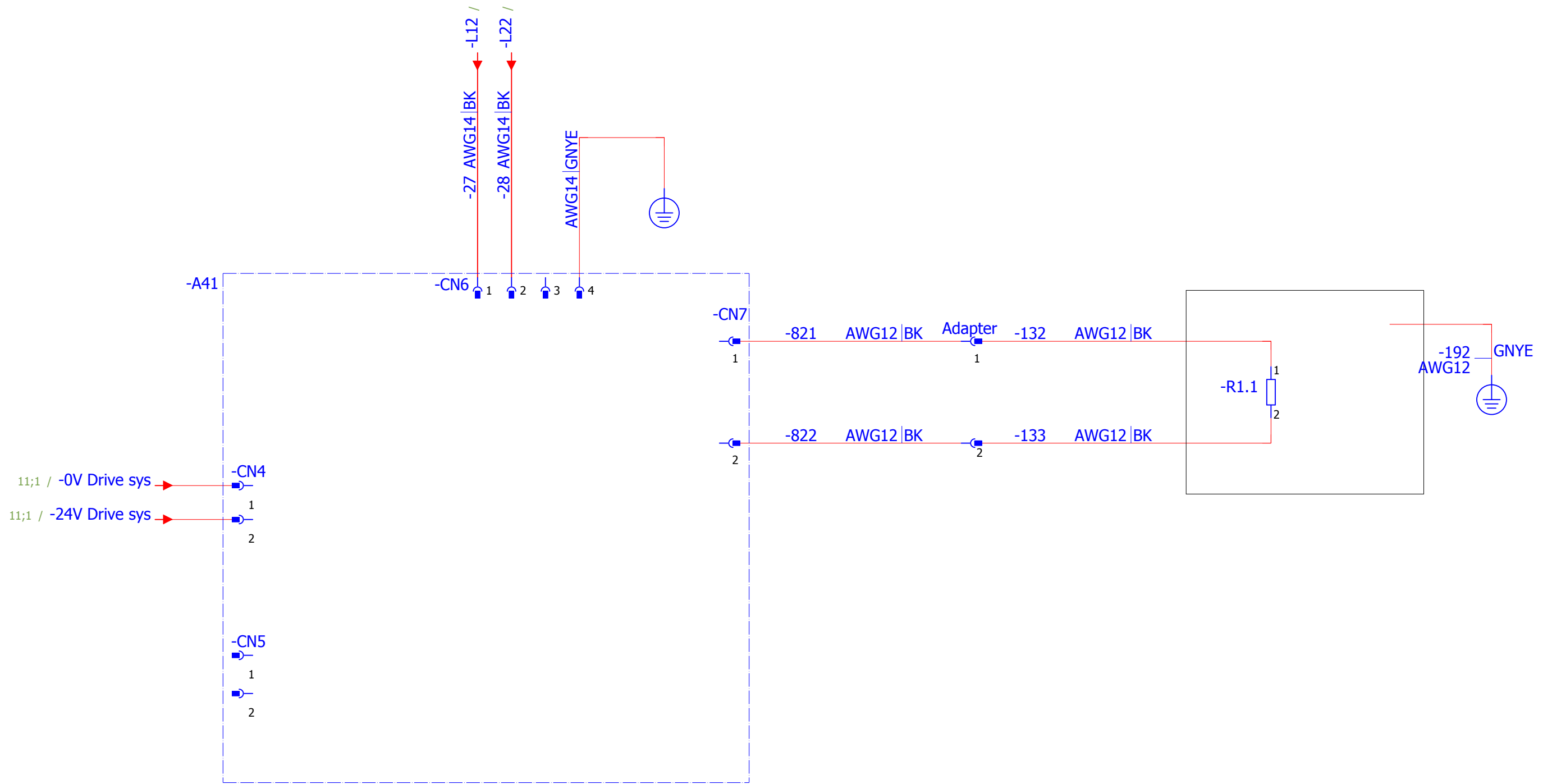
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28	N
29	

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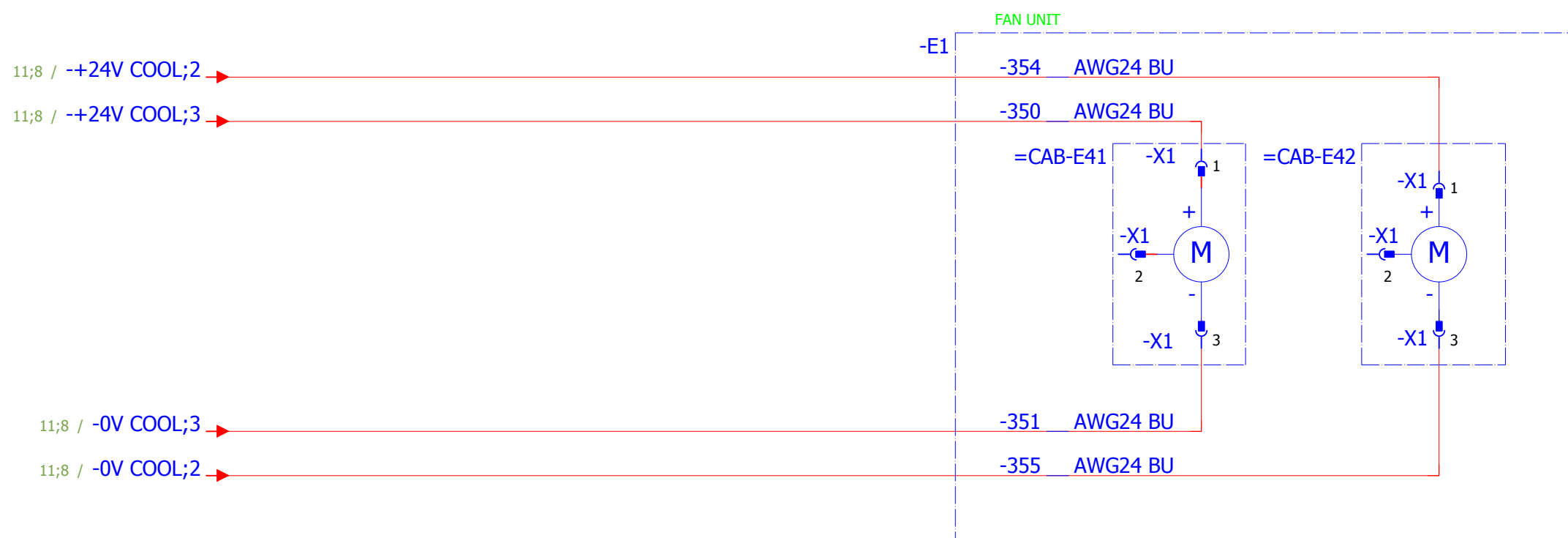
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Rev. Ind Page 38
04 Next 39
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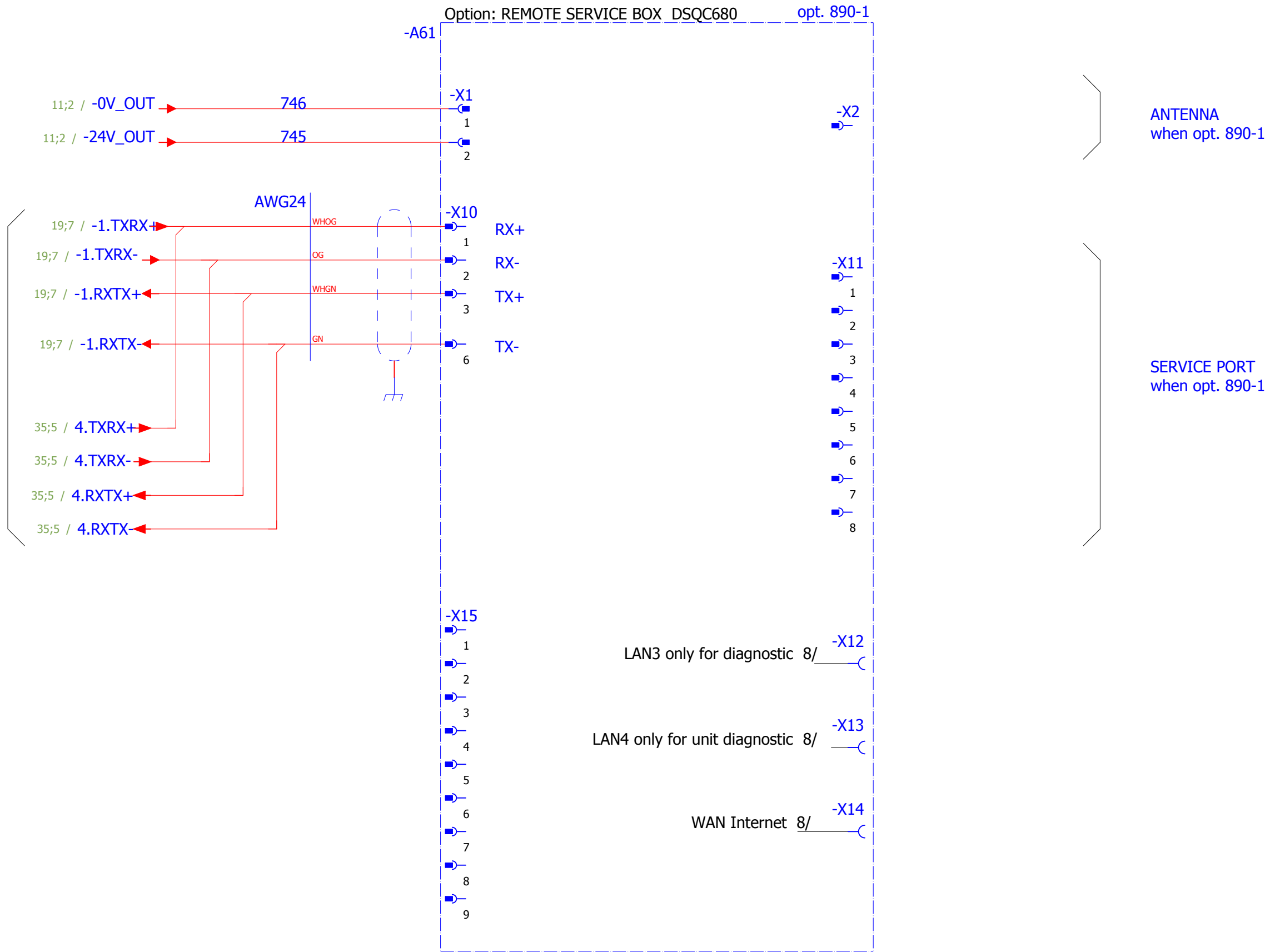
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Rev. Ind Page 39
04 Next 40
Total 59

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A31.X2
or
A64.X5
if opt. 1341-1



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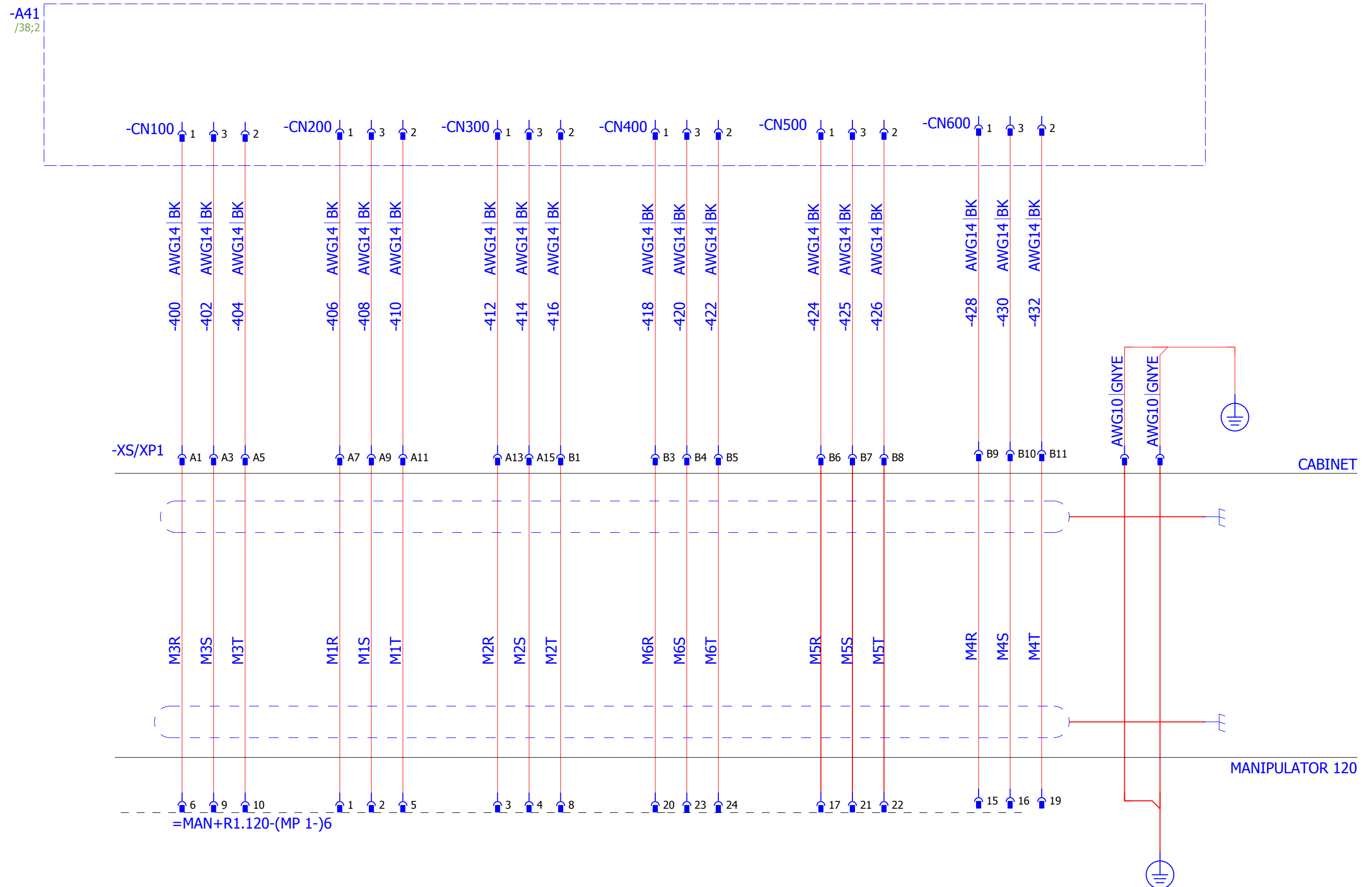
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Rev. Ind Page 40
04 Next 41
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IRB 120 cabinet module



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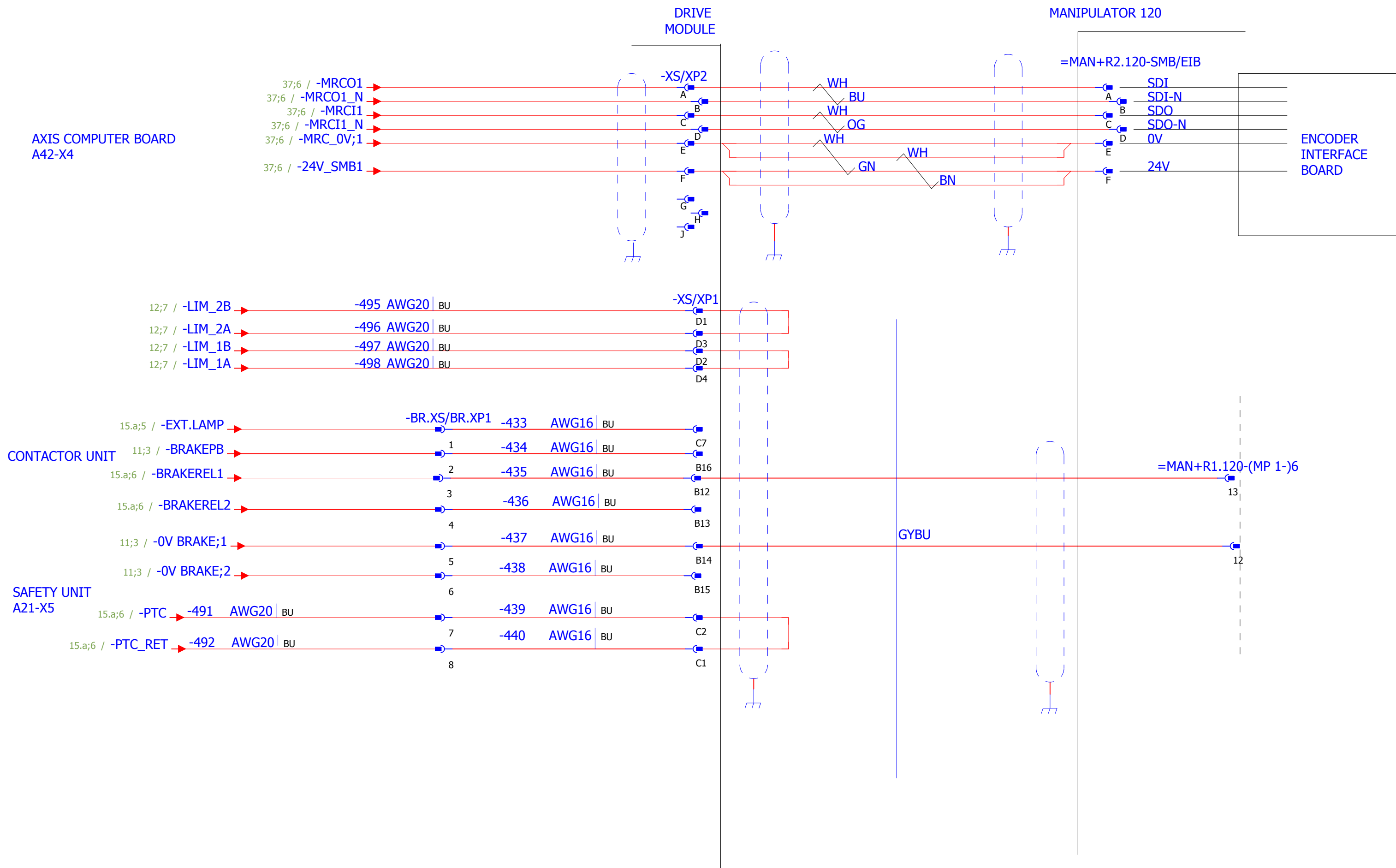
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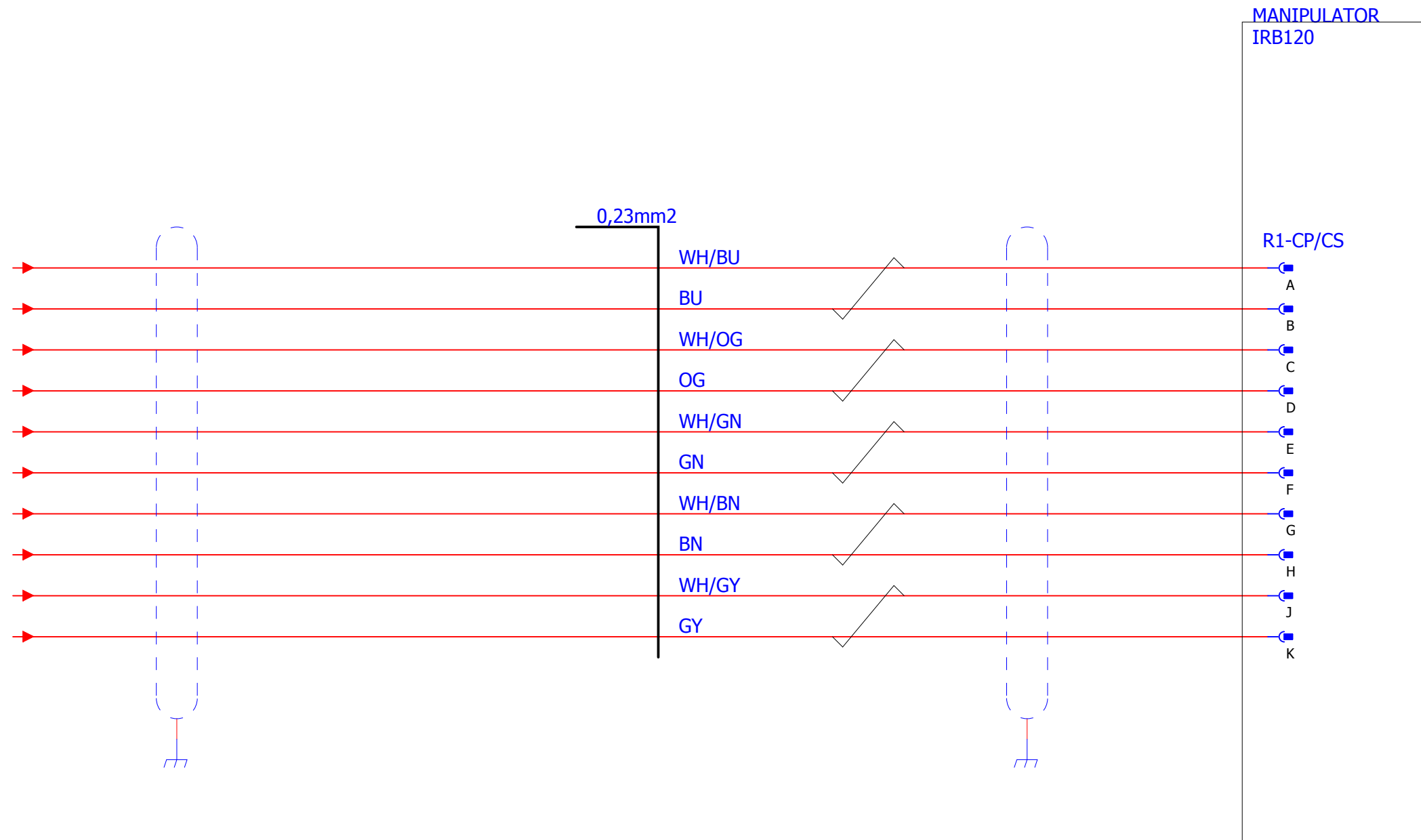
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Rev. Ind 04

Page 42
Next 42.a
Total 59

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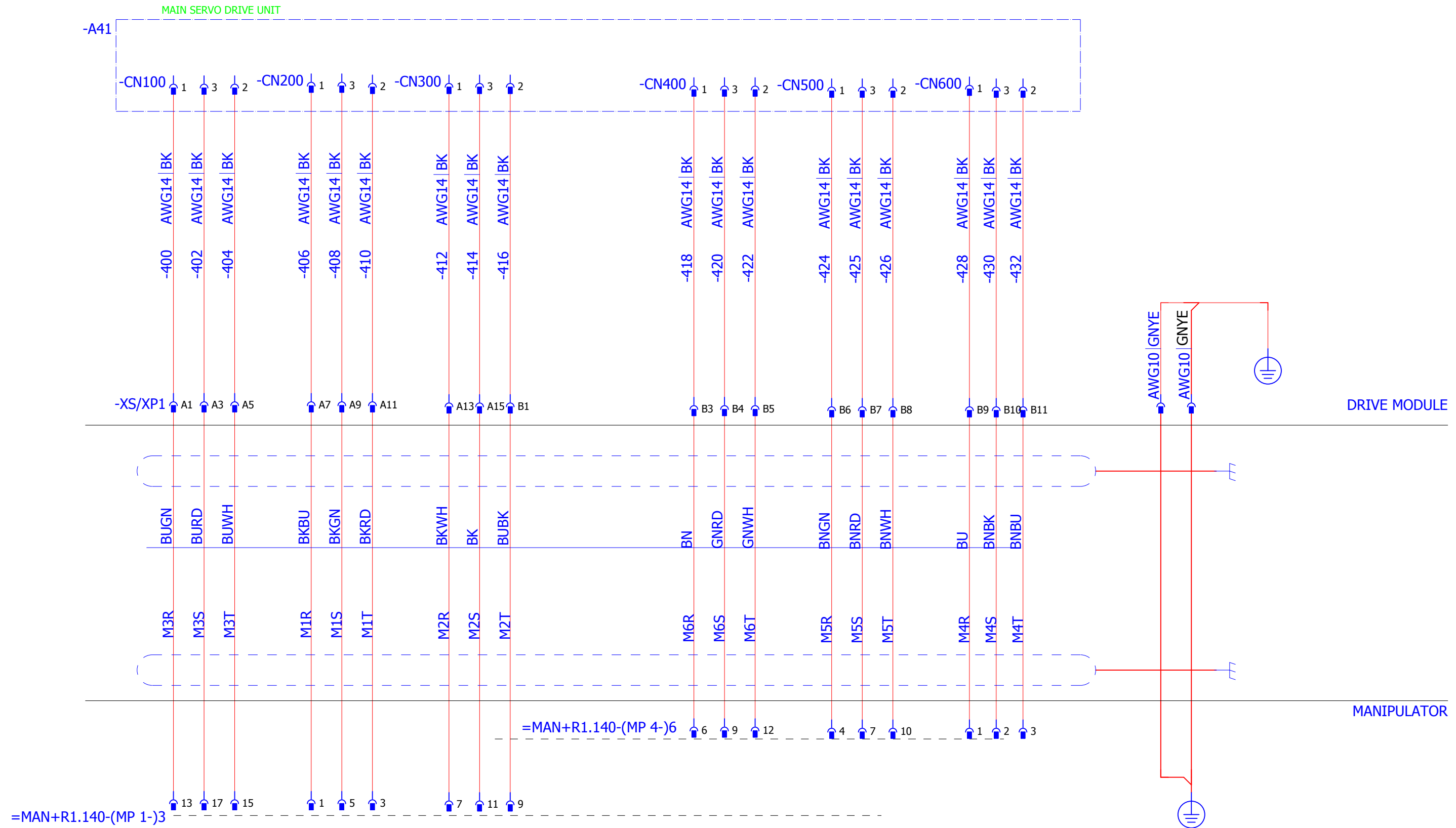
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Rev. Ind Page 42.a
04 Next 43
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IRB 140 cabinet module



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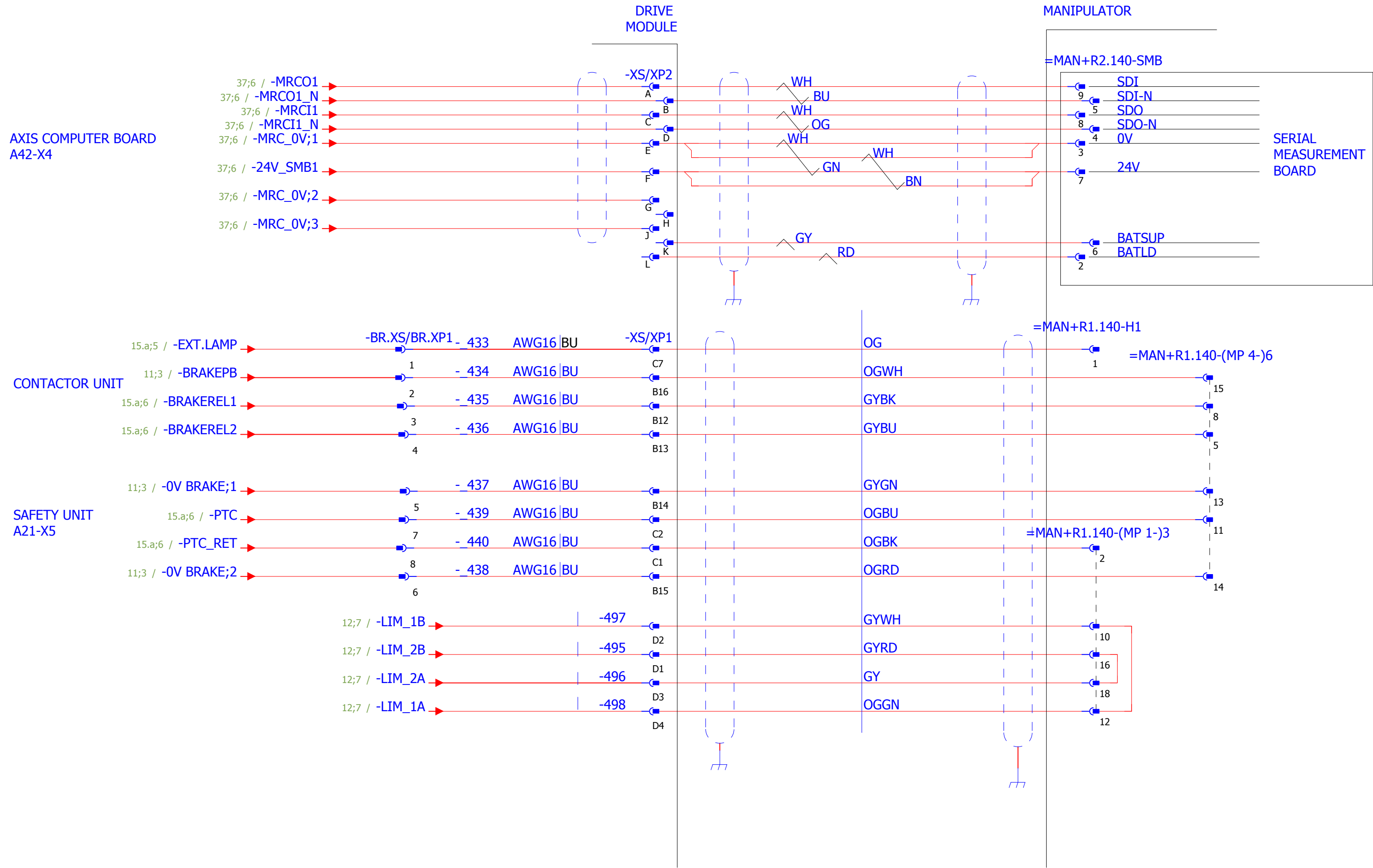
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Rev. Ind 04 Page 43
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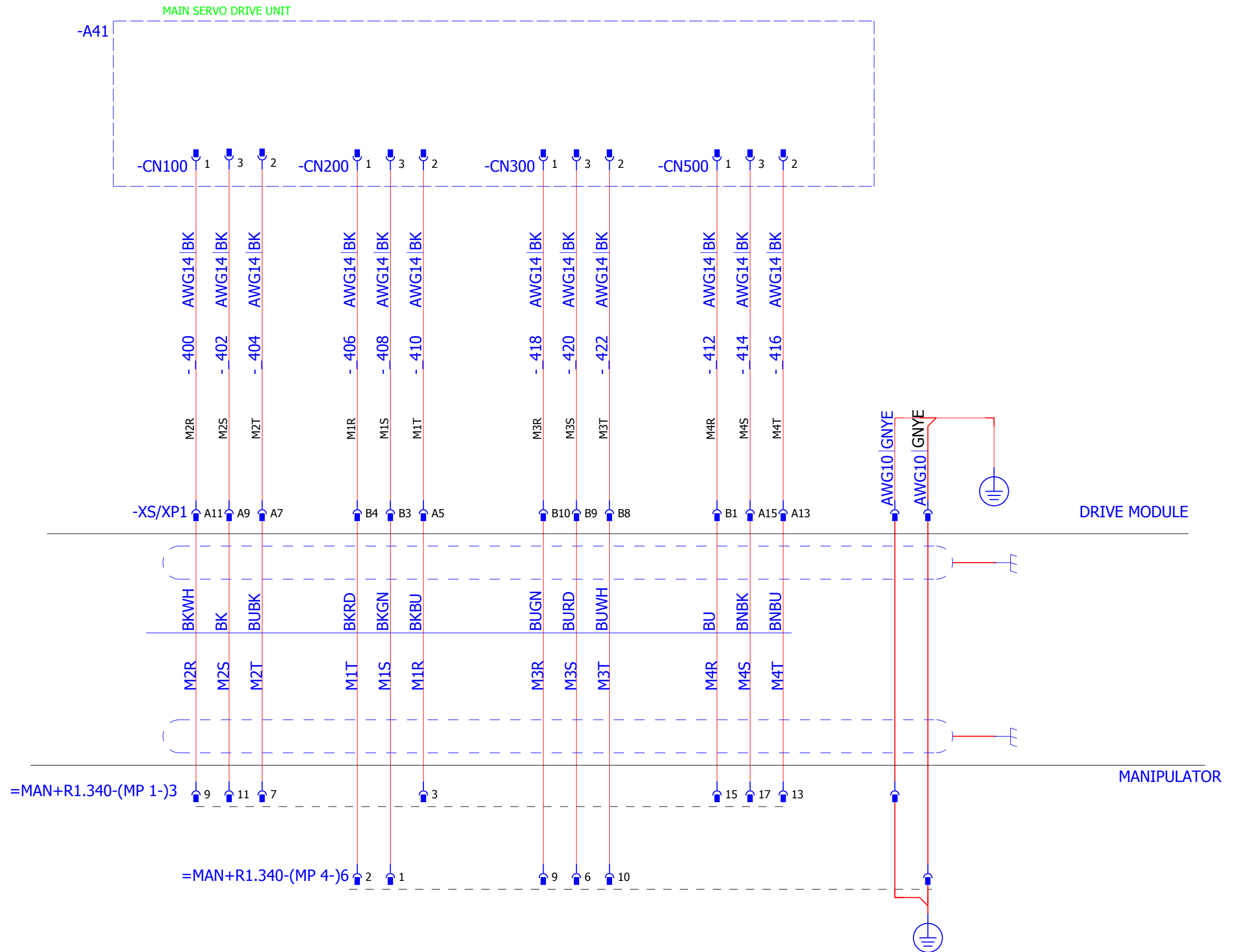
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3HAC049406-003

Rev. Ind Page 44
04 Next 45
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IRB 360 cabinet module



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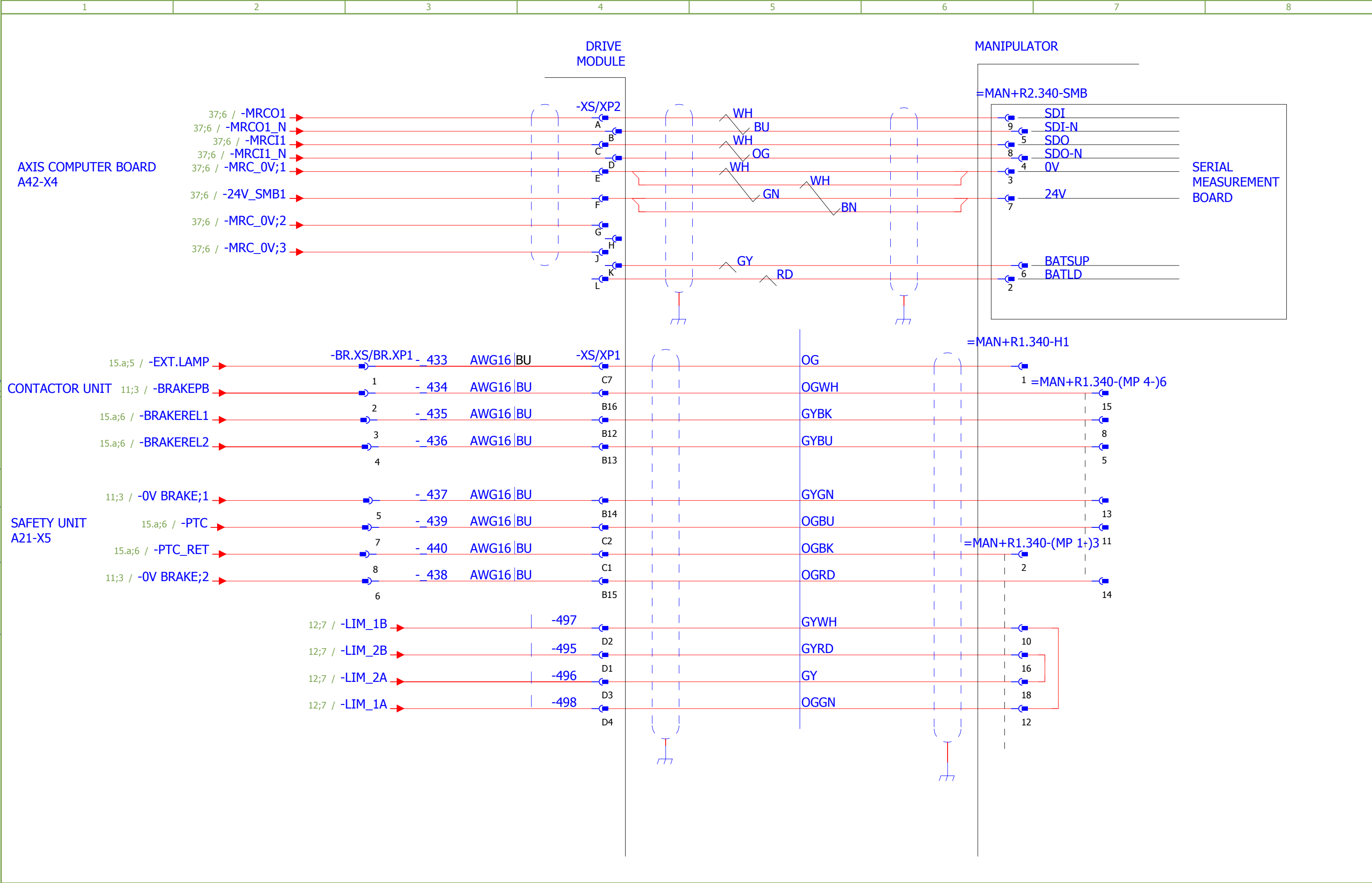
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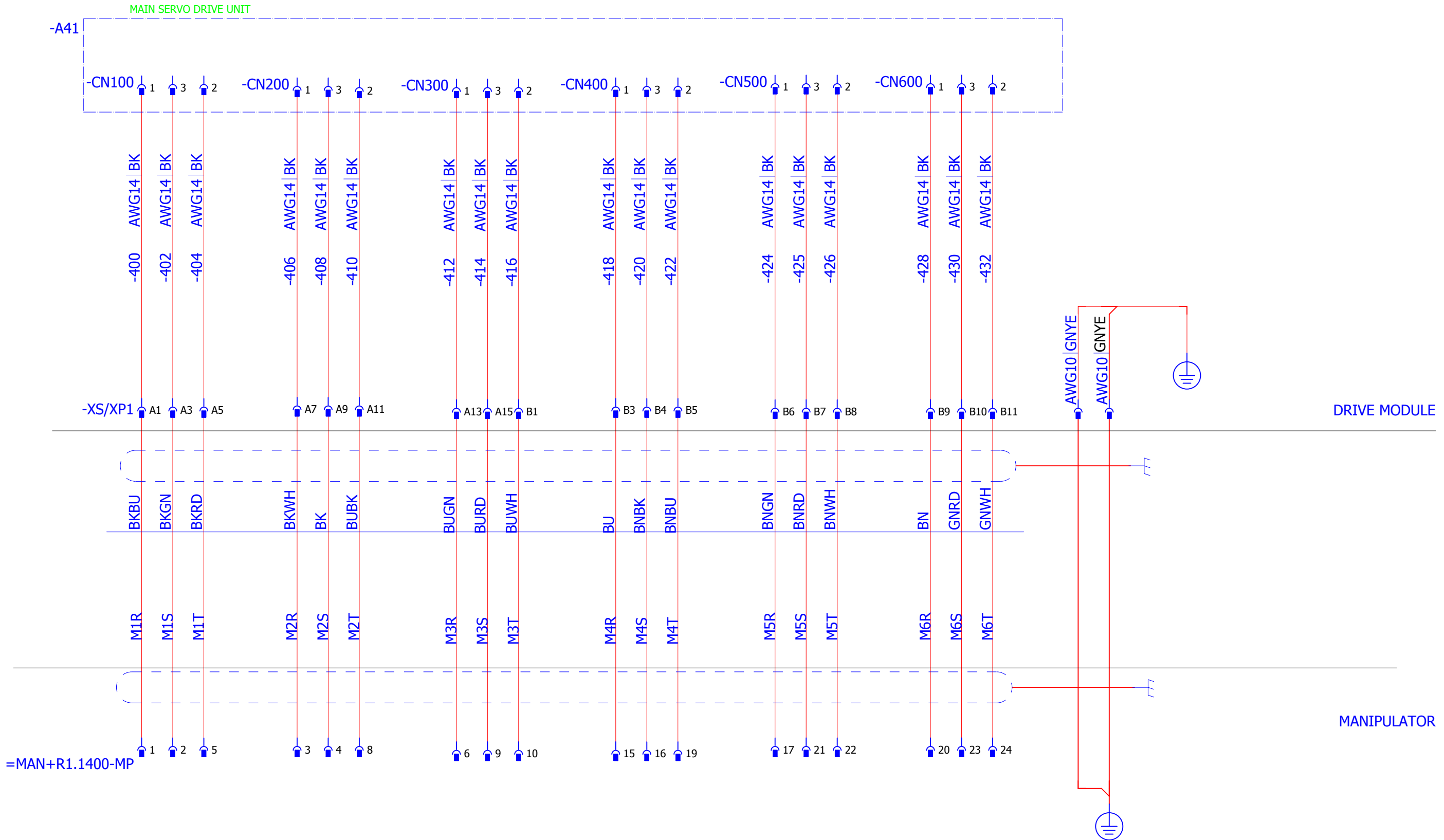
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04 Next 46
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IRB 1200 cabinet module



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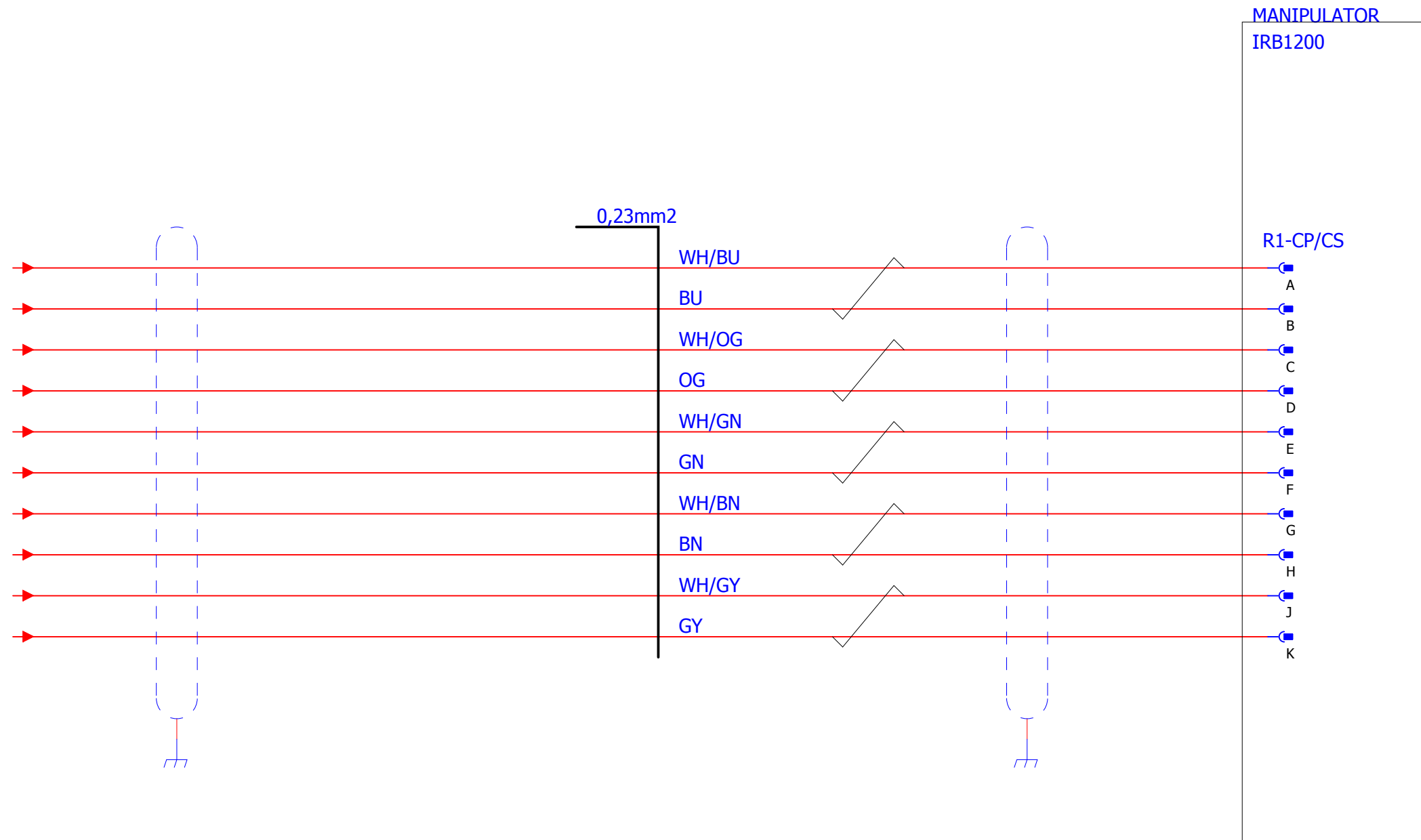
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Rev. Ind Page 48
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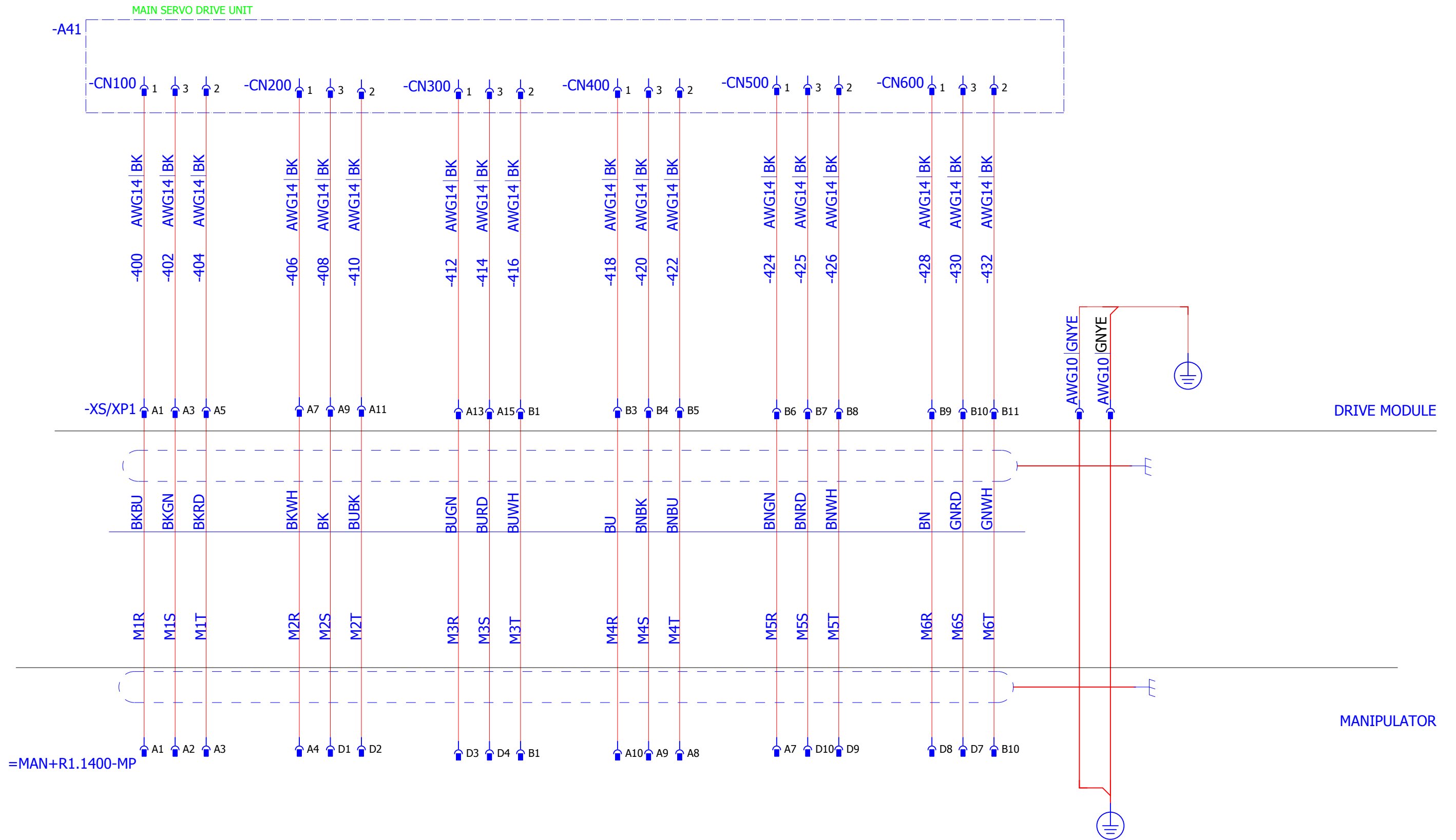
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Rev. Ind Page 48.a
04 Next 49
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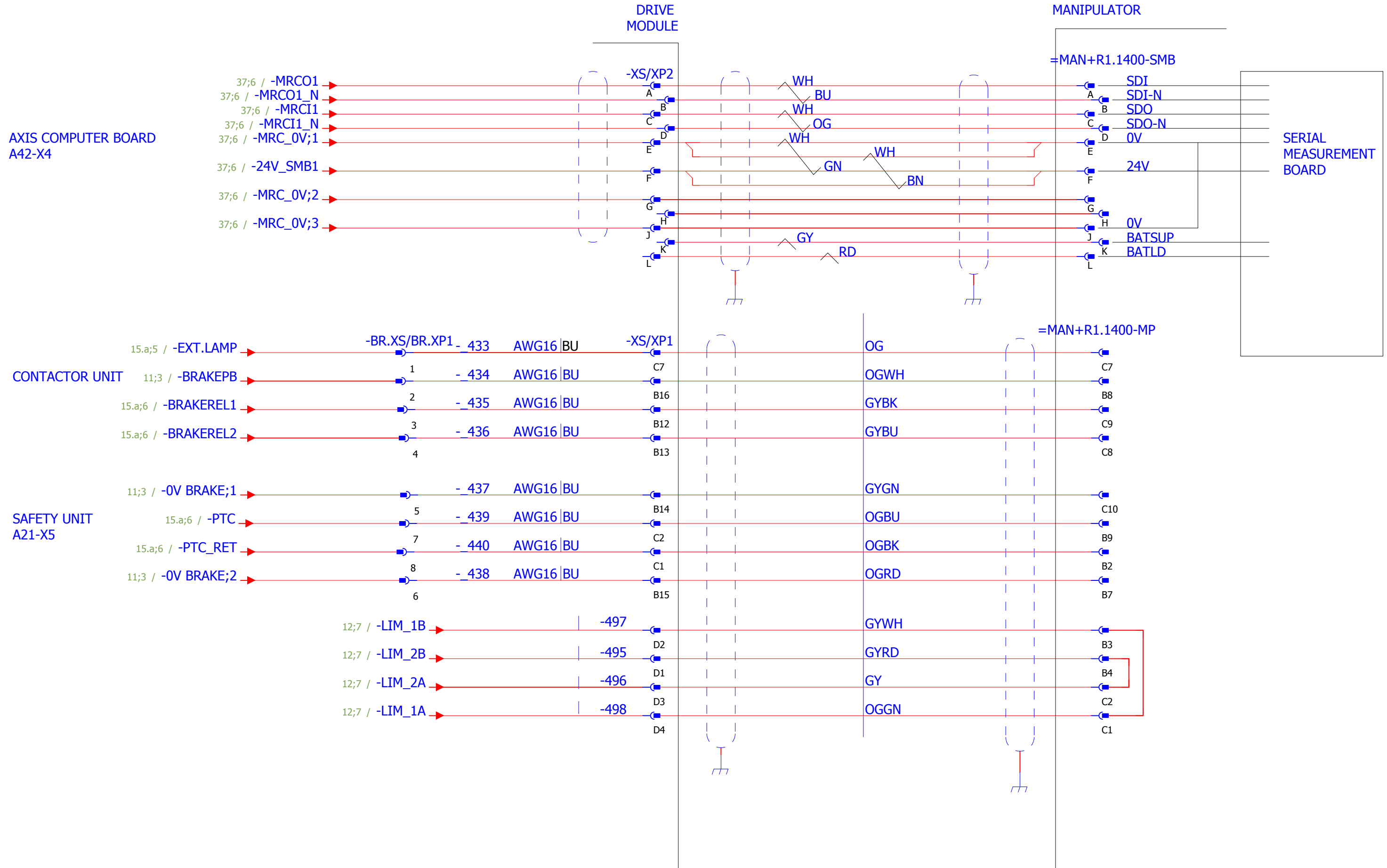
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			Page 49 Next 50 Total 59

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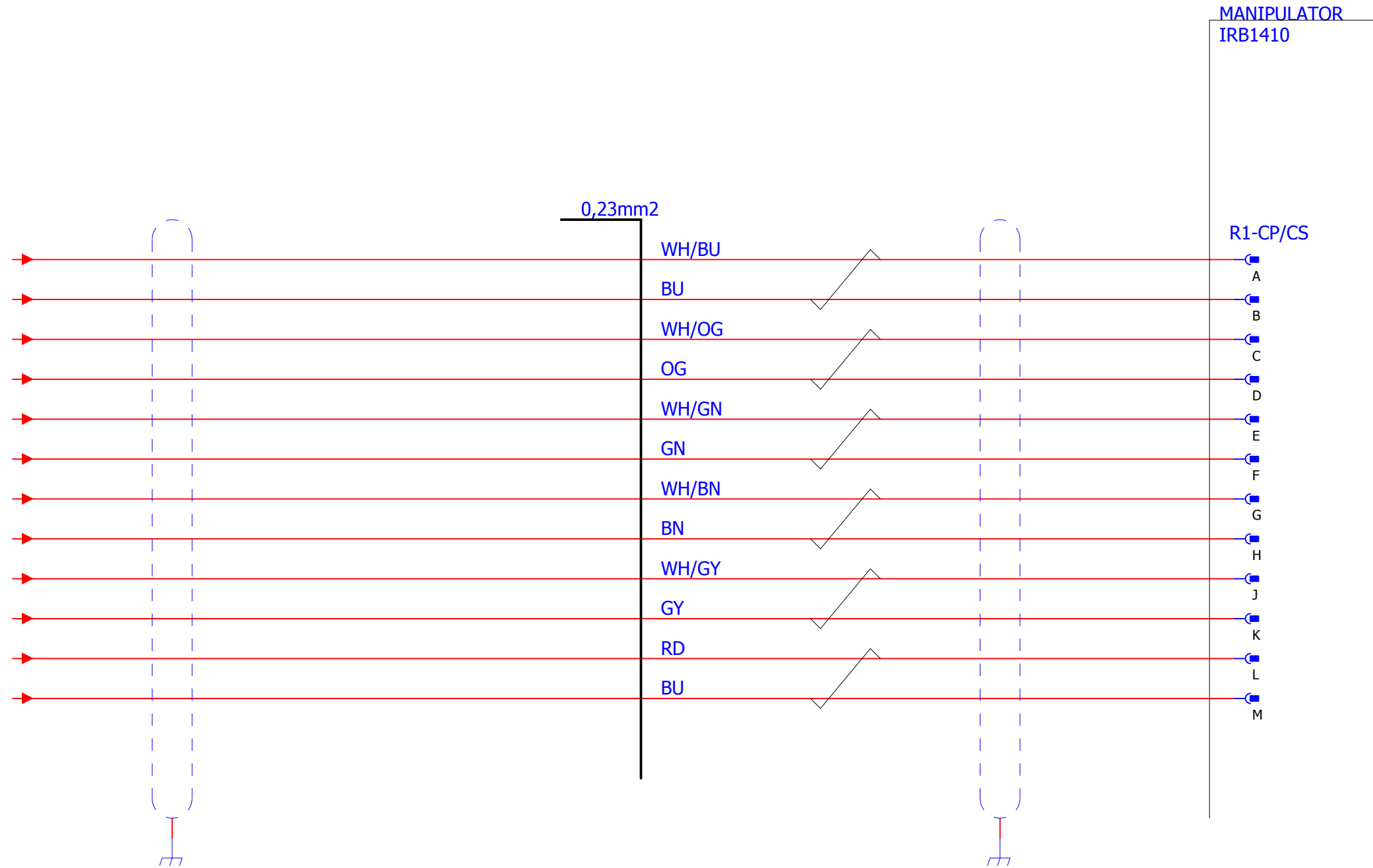
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Rev. Ind 04 Page 50
Next 51
Total 59

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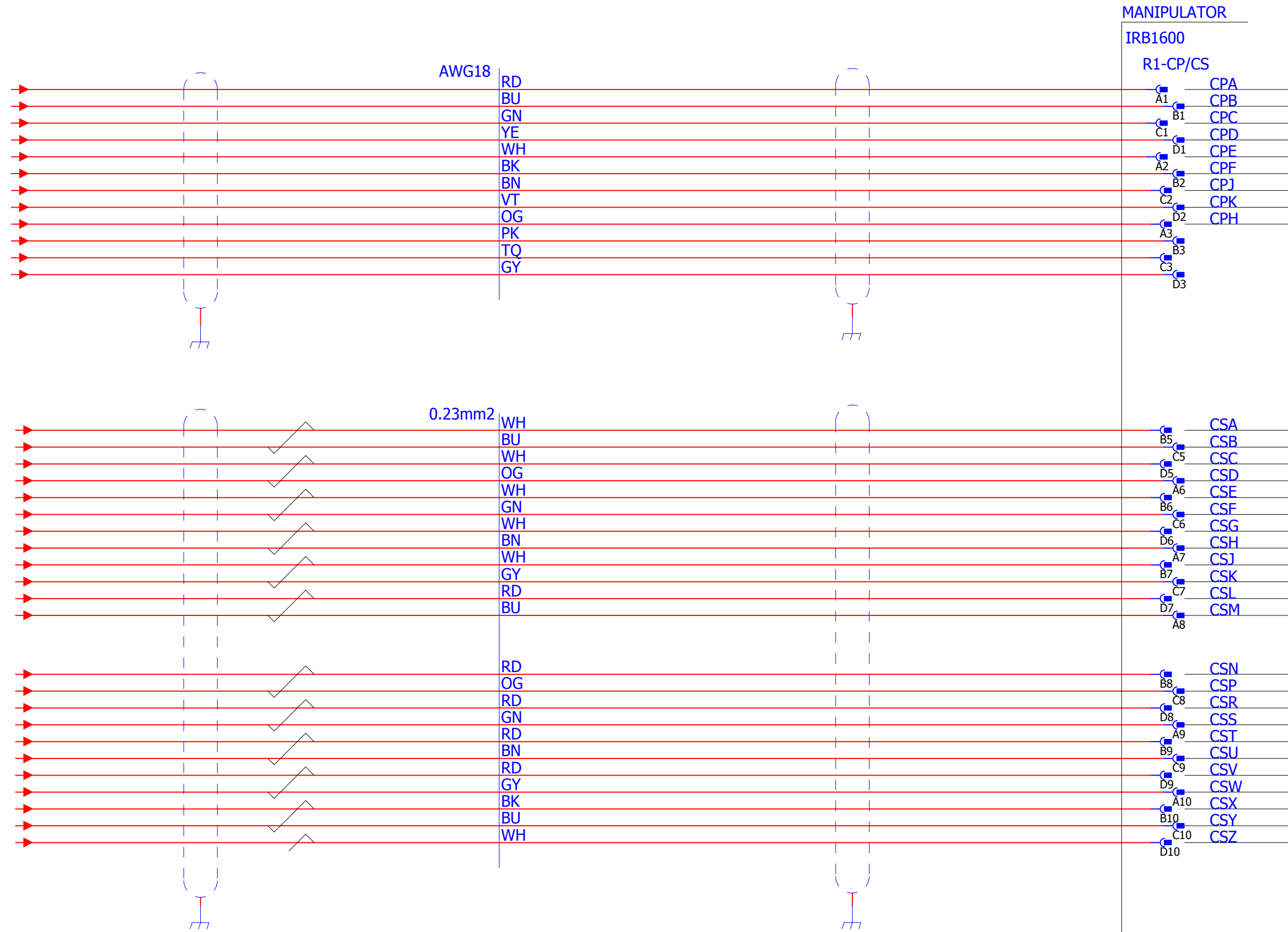
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04 Next 52
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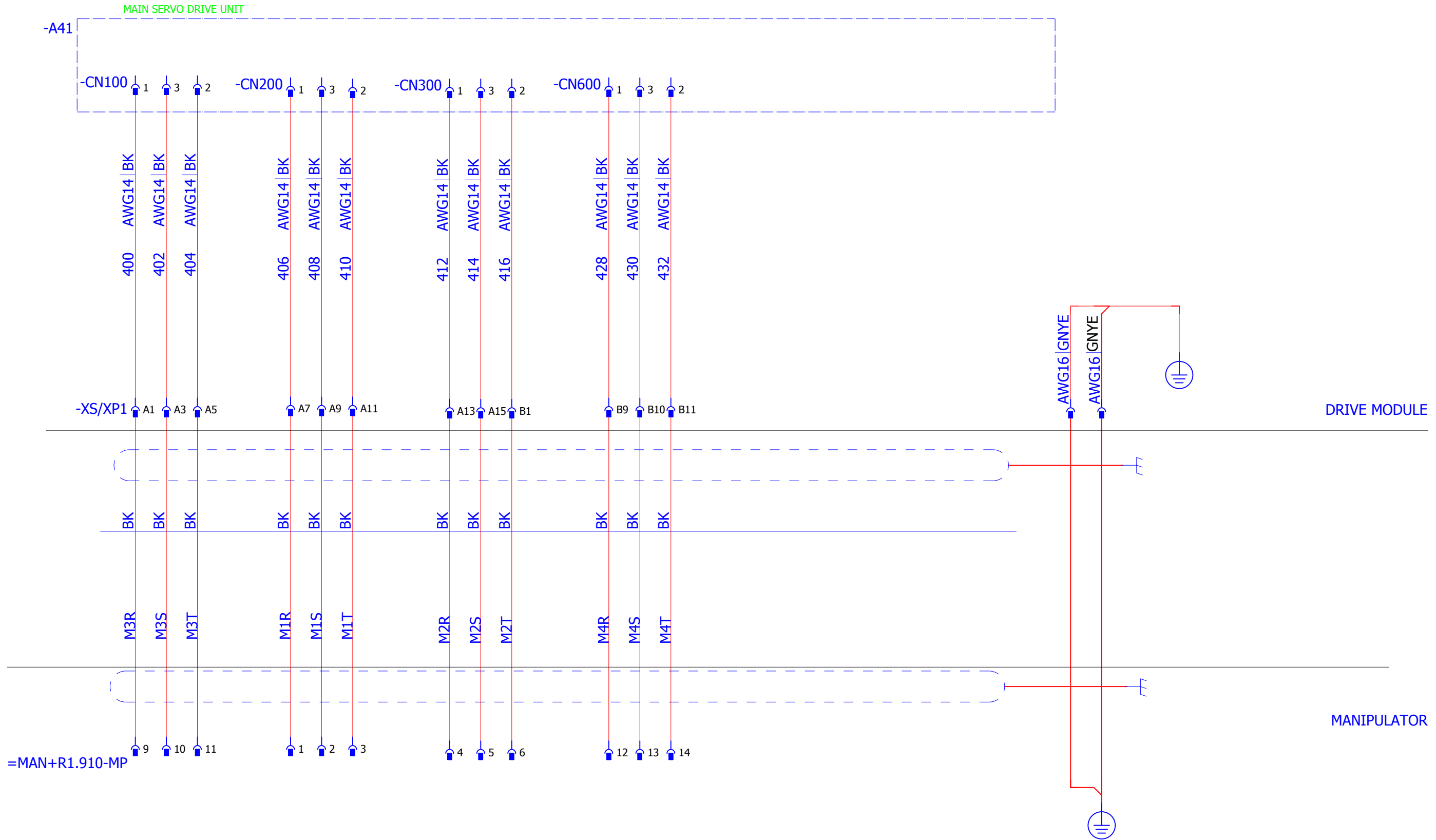
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3HAC049406-003

Rev. Ind Page 52
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IRB 910 cabinet module



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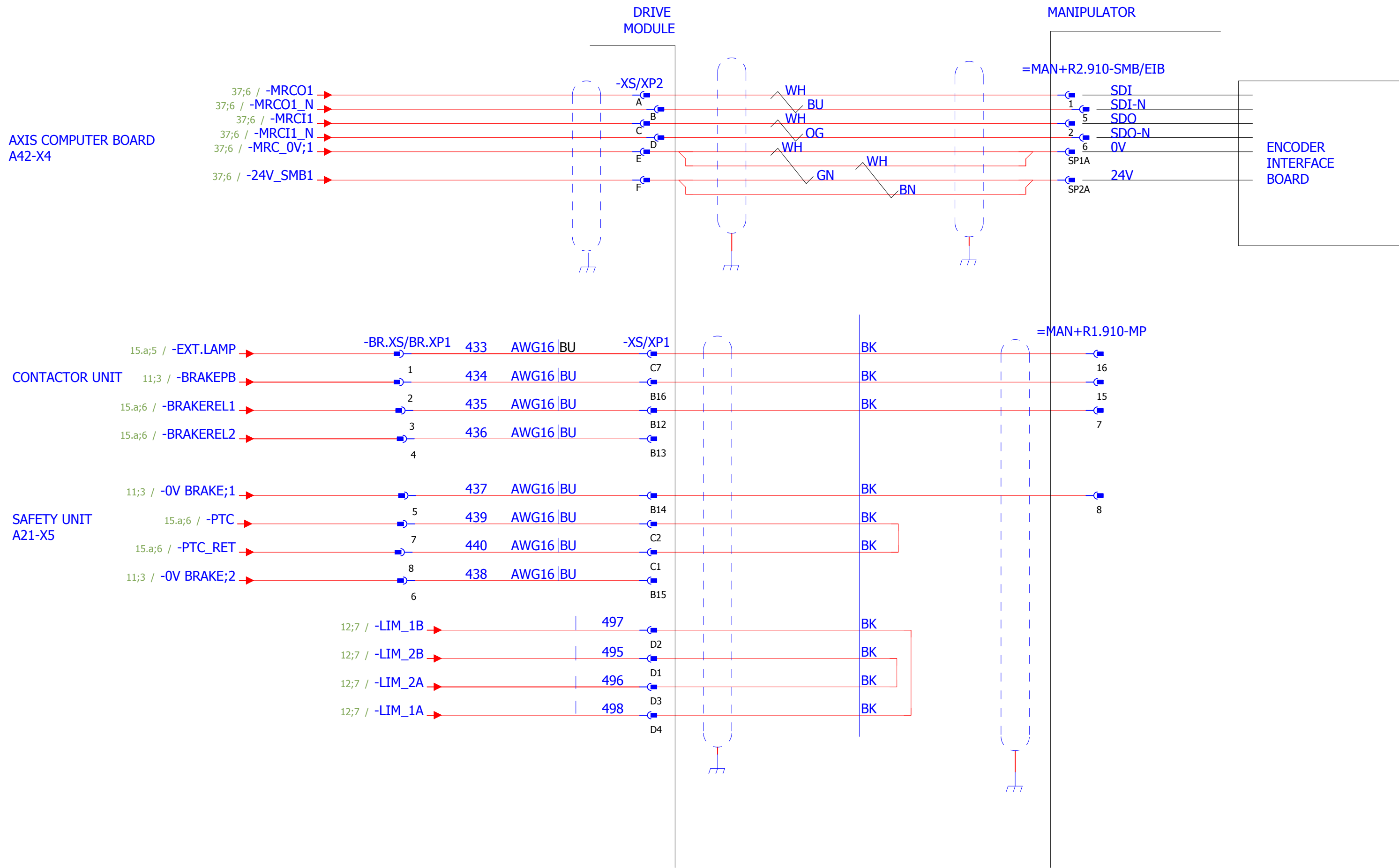
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Rev. Ind

04

Page 54

Next 55

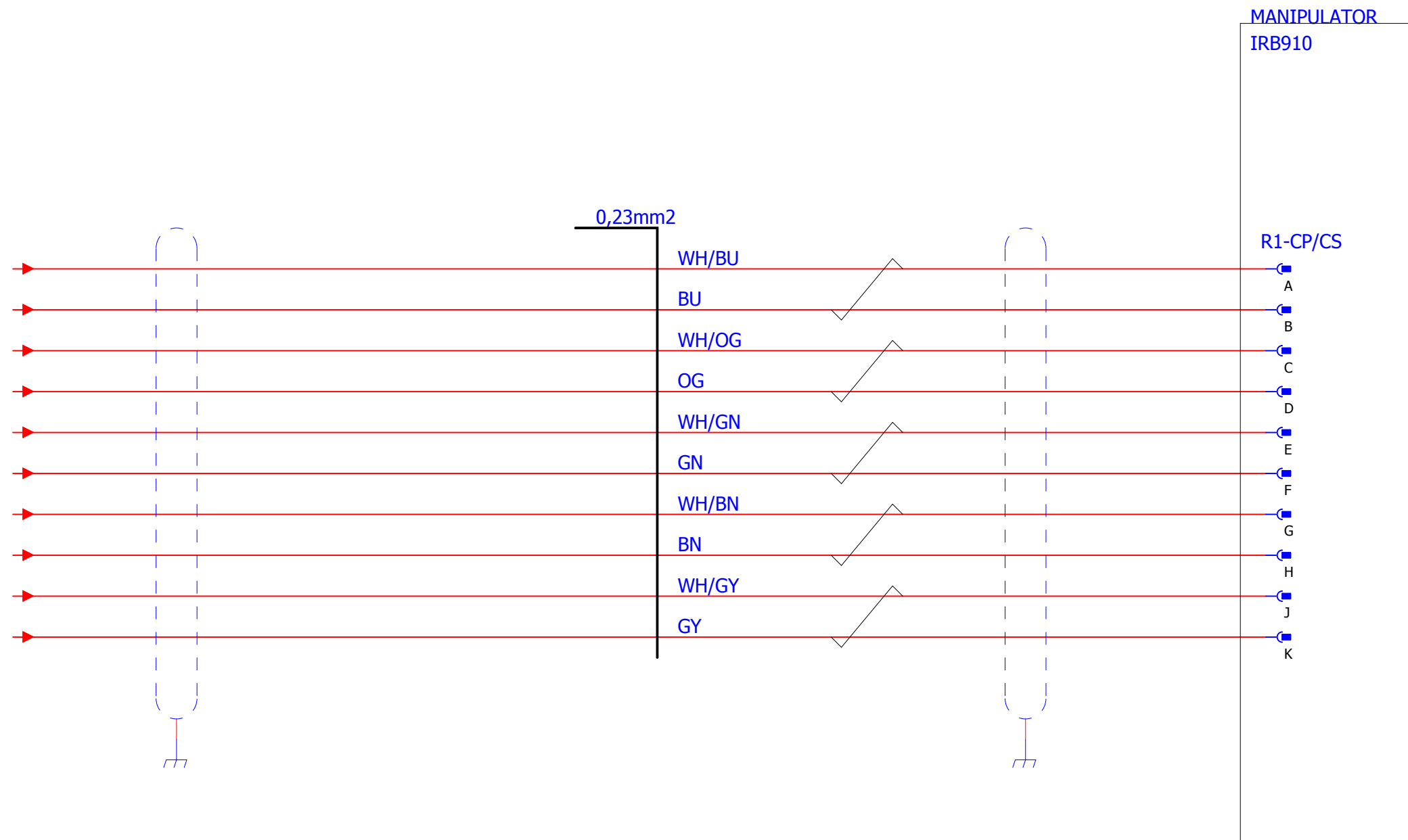
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Rev. Ind

04

Page 55

Next

Total 59